

Page 1 of 63

FCC Test Report

Test report On Behalf of Shenzhen Ningyuanda Technology Co., Ltd For WIFI CAMERA Model No.: X3, X5, G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11

FCC ID: 2BEXJX3

Prepared For : Shenzhen Ningyuanda Technology Co., Ltd 402 Kaiteng Building, Bantian Street, Longgang District, Shenzhen, China

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

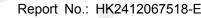
 Date of Test:
 Dec. 06, 2024 ~ Dec. 12, 2024

 Date of Report:
 Dec. 12, 2024

 Report Number:
 HK2412067518-E

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Test Result Certification

Applicant's name	Shenzhen Ningyuanda Technology Co., Ltd
Address	402 Kaiteng Building, Bantian Street, Longgang District, Shenzhen, China
Manufacturer's Name:	Shenzhen Ningyuanda Technology Co., Ltd
Address	402 Kaiteng Building, Bantian Street, Longgang District, Shenzhen, China
Product description	
Trade Mark:	N/A
Product name:	WIFI CAMERA
Model and/or type reference .:	X3, X5, G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11
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:	Dec. 06, 2024 ~ Dec. 12, 2024
Date of Issue:	Dec. 12, 2024
Test Result	Pass

Testing Engineer

lian

(Len Liao)

Technical Manager

Sliver Mon

(Sliver Wan)

Authorized Signatory:

ason Thou

(Jason Zhou)

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Т 691

** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Dec. 12, 2024	Jason Zhou	
TESTING	TING	restine restin	TESTING	

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1. Test Result Summary

1.1. Test Procedures and Results

CFR 47 Section	Result
§15.203/§15.247(b)(4)	PASS
§15.207	PASS
§15.247(b)(3)	PASS
§15.247(a)(2)	PASS
§15.247(e)	PASS
§15.247(d)	PASS
§15.205/§15.209	PASS
	§15.203/§15.247(b)(4) §15.207 §15.247(b)(3) §15.247(a)(2) §15.247(e) §15.247(d)

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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FICATION



1.3. Measurement Uncertainty

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

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

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EUT Description 2.

HUAK TESTING

2.1. General Description of EUT

Equipment:	WIFI CAMERA	HUAKTEST	HUNKTES
Model Name:	X3	elin.	9
Series Model:	X5, G1, G2, G3, G4, G5, G D1, D2, D3, D4, D5, D6, D		
Model Difference:	All model's the function, so same, only with a product sample model: X3.		
FCC ID:	2BEXJX3	O HUAN	O HO
Antenna Type:	PCB Antenna	-DG	
Antenna Gain:	3.85dBi	HUAKTESIA	HUAKTESTI
Operation frequency:	802.11b/g/n 20:2412~2462	2 MHz	
Number of Channels:	802.11b/g/n20: 11CH	0 ⁴⁰⁴	HUAKTESTING
Modulation Type:	DSSS, OFDM	HUAK TESTING	
Power Source:	DC5V From Type-C	HUAK TESTING	HUAKTESTING
Power Rating:	DC5V From Type-C		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.2. Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.

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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	-STING	

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: Tr

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

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

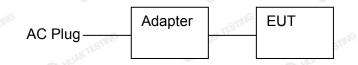
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2.3. Description of Test Setup

Operation of EUT during conducted testing and radiation testing:



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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2.4. 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.

ltem	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	WIFI CAMERA	N/A	X3	N/A	EUT
2	USB Cable	N/A	N/A	Length: 50cm	Accessory
3	Adapter	N/A	MDY-10-EH	Input: AC100-240V, 50/60Hz, 0.7A Output: DC5V/3A, 9V/3A, 12V/2.25A, 20V/1.35A	Peripheral
MAKTESTIN	C RUAK TISTING	O HUNY	STORE OF THE ST	on munitresting	D MUNK TESTING

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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3. General Information

3.1. Test Environment and Mode

Operating	Environment:
-----------	--------------

5	Temperature:	25.0 °C	HUAKTESI	HUAKTES
	Humidity:	56 % RH		0
3	Atmospheric Pressure:	1010 mbar	AK TESTING	G

Test Mode:

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.

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VCATION



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	Bar	1Mbps	auG
802.11g	HUAKTEST	6Mbps	HUAKTESI
802.11n(H20)	0	6.5Mbps	9

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).

3. Mode Test Duty Cycle

O HUP	Mode	Duty Cycle	Duty Cycle Factor (dB)	HUA
р Ф	802.11b	0.988	-0.05	_
0	802.11g	0.988	-0.05	0
	802.11n(H20)	0.992	-0.03	
	- NG	.\G	all all	

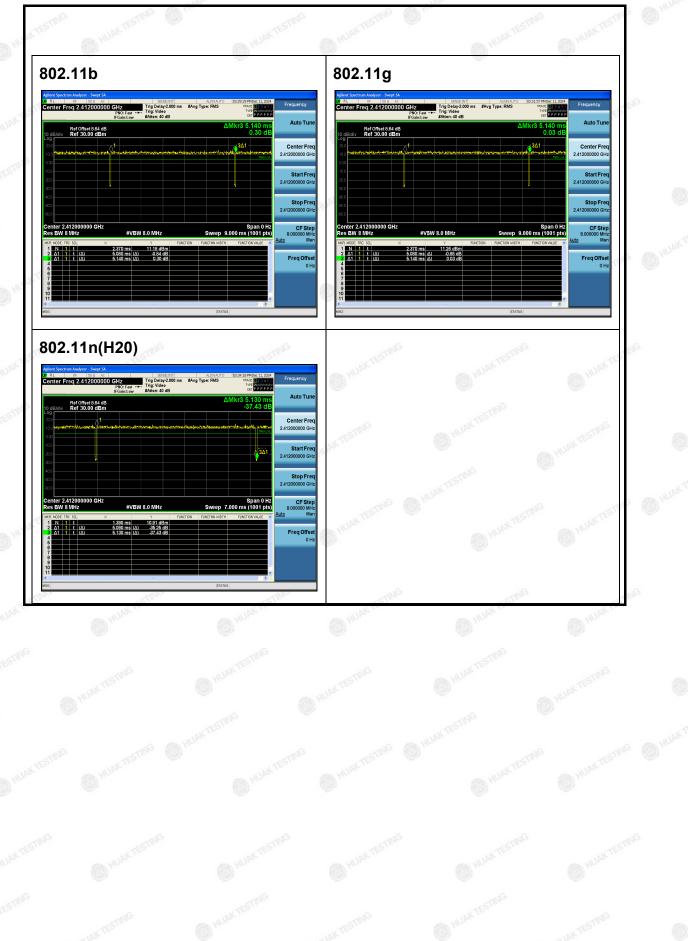
Test plots as follows:

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4. Test Results and Measurement Data

4.1. Conducted Emission

Test Specification

	OMTEN STATE	DATES	AMAG	15		
Test Requirement:	FCC Part15 C Secti	ion 15.207	AKIL	HUAKTL		
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	HUAK IL	, est	TESTING		
Receiver setup:	RBW=9 kHz, VBW=	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
	Frequency range	Limit (dBuV)	and a		
	(MHz)	Quasi-peak	Average	AKTESI		
Limits:	0.15-0.5	66 to 56*	56 to 46*	2		
	0.5-5	56	46			
	5-30	60	50			
	a LAK TESTING	TESTING	AK TESTING	NKTES		
	Refe	erence Plane				
	40cr	m				
	KTES TOU					
	Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabiliza Test table height=0.8m	EMI Receiver		.Th		
Test Mode:	transmitting with mo	odulation				
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:						

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ATTA: 100 1000	V .	Allow Hill	D10990.	Allen Ho	DOM: N	
Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Receiver	R&S	ESR-7	HKE-005	Feb. 20, 2024	Feb. 19, 2025	
LISN	R&S	ENV216	HKE-002	Feb. 20, 2024	Feb. 19, 2025	
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 20, 2024	Feb. 19, 2025	
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	Feb. 19, 2025	
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A	

Test Instruments

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

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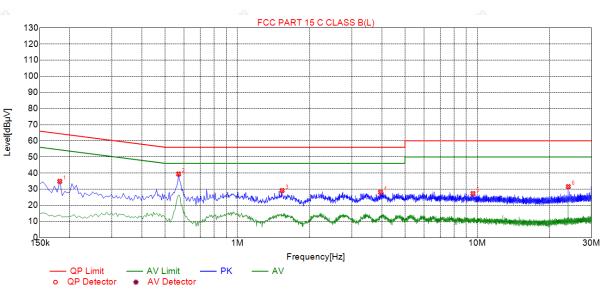
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4.2. Test Result

Remark: All the test modes completed for test. only the worst result Of was reported as below: Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

Test Specification: Line



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.1815	34.88	19.86	64.42	29.54	15.02	PK	L
2	0.5685	39.44	19.86	56.00	16.56	19.58	PK	L
3	1.5360	29.19	19.93	56.00	26.81	9.26	PK	L
4	3.9525	28.12	20.09	56.00	27.88	8.03	PK	L
5	9.6045	27.31	19.98	60.00	32.69	7.33	PK	L
6	24.0000	31.59	20.10	60.00	28.41	11.49	PK	L

Remark: Margin = Limit - Level

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

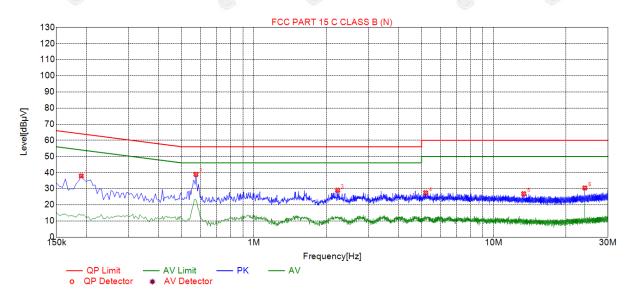
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Test Specification: Neutral



Suspected List	
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045	ouspected List							
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.1905	37.91	19.74	64.01	26.10	18.17	PK	N
2	0.5730	38.86	19.74	56.00	17.14	19.12	PK	N
3	2.2335	29.04	19.87	56.00	26.96	9.17	PK	N
4	5.2035	27.50	20.00	60.00	32.50	7.50	PK	N
5	13.3440	26.91	19.79	60.00	33.09	7.12	PK	Ν
6	24.0000	30.45	20.19	60.00	29.55	10.26	PK	N

Remark: Margin = Limit - Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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CATION

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4.3. Maximum Conducted Output Power

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	KTESTI			
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02				
Limit:	30dBm	лG			
Test Setup:	RF automatic control unit	AKTESTING			
Test Mode:	Transmitting mode with modulation	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 RF automatic control unit 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 results in the test report. 				
Test Result:	PASS				

Test Instruments

	RF Test Room							
Equipment	Manufacturer	Calibration Date	Calibration Due					
Spectrum analyzer	Agilent	[©] N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025			
Power meter	Agilent	E4419B	HKE-085	Feb. 20, 2024	Feb. 19, 2025			
Power Sensor	Agilent	E9300A	HKE-086	Feb. 20, 2024	Feb. 19, 2025			
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025			
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025			

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

Mode	Mode Test Channel		Maximum Peak Conducted Output Power	LIMIT
		(MHz)	(dBm)	dBm
802.11b	CH01	2412	11.56	30
802.11b	CH06	2437	12.73	30
802.11b	CH11	2462	13.25	30
802.11g	CH01	2412	11.97	30
802.11g	CH06	2437	12.89	30
802.11g	CH11	2462	11.58	30
802.11n(HT20)	CH01	2412	11.73	30
802.11n(HT20)	CH06	2437	⁶ 12.71	30
802.11n(HT20)	CH11	2462	11.39	30

Note: 1. The test results including the cable lose.

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4.4. Emission Bandwidth

Test Specification

Test Requirement:	FCC Part15 C Section 15	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	KDB 558074 D01 15.247	Meas Guidance v05r02			
Limit:	>500kHz	NOKTESTING			
Test Setup:	Spectrum Analyzer	EUT			
Test Mode:	Transmitting mode with m	Transmitting mode with modulation			
Test Procedure:	 15.247 Meas Guidance 2. Set to the maximum por EUT transmit continue 3. Make the measurement resolution bandwidth (Video bandwidth (VBV an accurate measurent be greater than 500 km 	 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	O HUM O HU			

Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025	
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025	

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

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Test data

Test channel	6dB Emission Bandwidth (MHz)			
Test channel	802.11b	1b 802.11g 802.1		
Lowest	9.000	15.400	15.080	
Middle	8.080 15.080		15.200	
Highest	9.040	15.640	15.280	
Limit:	>500kHz			
Test Result:	IAK TESTING	PASS	NAK TESTING WUR	
W	0. 6	0	0	

Test plots as follows:

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802.11b Modulation

Lowest channel



Middle channel



Highest channel



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Report No.: HK2412067518-E

802.11g Modulation

Lowest channel



Middle channel



Highest channel



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802.11n (HT20) Modulation





Middle channel



Highest channel



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4.5. Power Spectral Density

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02				
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.				
Test Setup:	Spectrum Analyzer				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 Transmitting mode with modulation 1. The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. 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. 5. Detector = Peak, Sweep time = auto couple. 6. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 7. Measure and record the results in the test report. 				
Test Result:	PASS				

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Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
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

EUT Set Mode	Channel	Test Result (dBm/30kHz)	Result (dBm/3kHz)	
802.11b	Lowest	-2.04	-12.04	
	Middle	-0.30	-10.30	
	Highest	0.13	-9.87	
802.11g	Lowest	-5.09	-15.09	
	Middle	-3.98	-13.98	
	Highest	-3.25	-13.25	
802.11n(H20)	Lowest	-5.74	-15.74	
	Middle	-3.84	-13.84	
	Highest	-3.56	-13.56	
PSD test result (dBr	m/3kHz)= PSD	test result (dBm/30k	Hz)-10	
Limit: 8dBm/3kHz				
Test Result:	PASS			

Test plots as follows:

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802.11b Modulation

Lowest channel



Middle channel



Highest channel

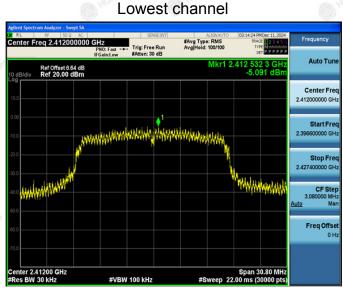


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802.11g Modulation



Middle channel



Highest channel

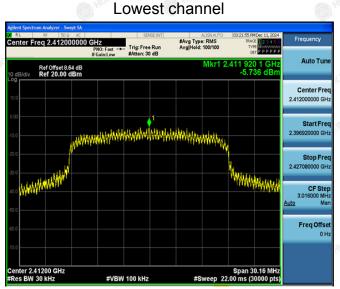
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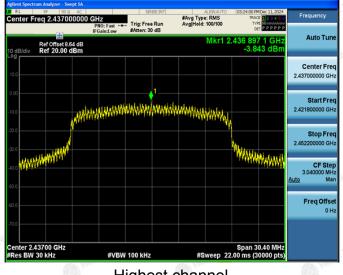


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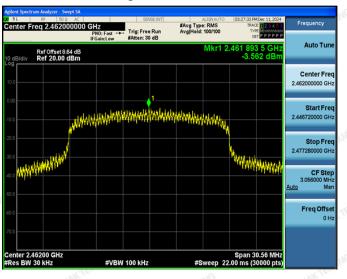
802.11n (HT20) Modulation



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:	KDB 558074 D01 15.247 Meas Guidance v05r02					
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					
Test Mode:	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. 					
Test Procedure:	 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
Test Result:	PASS					

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RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 20, 2024	Feb. 19, 2025
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A

Test Instruments

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

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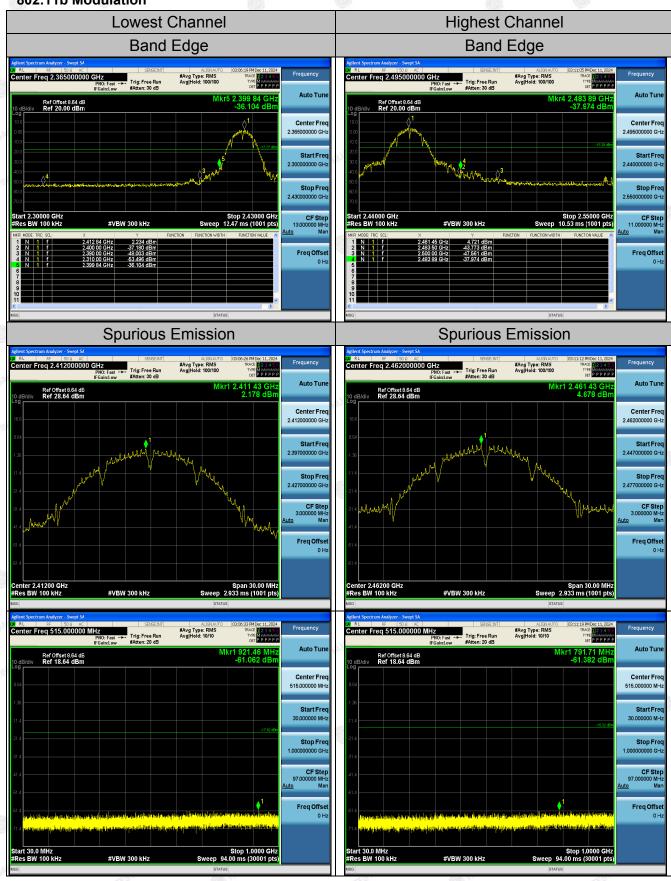
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Test Data





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Report No.: HK2412067518-E

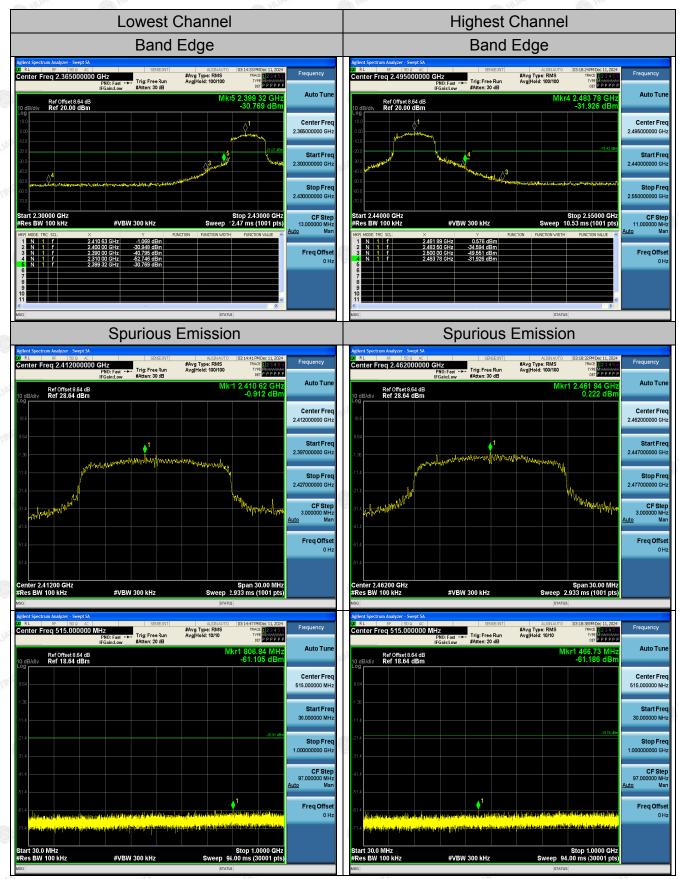


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802.11g Modulation



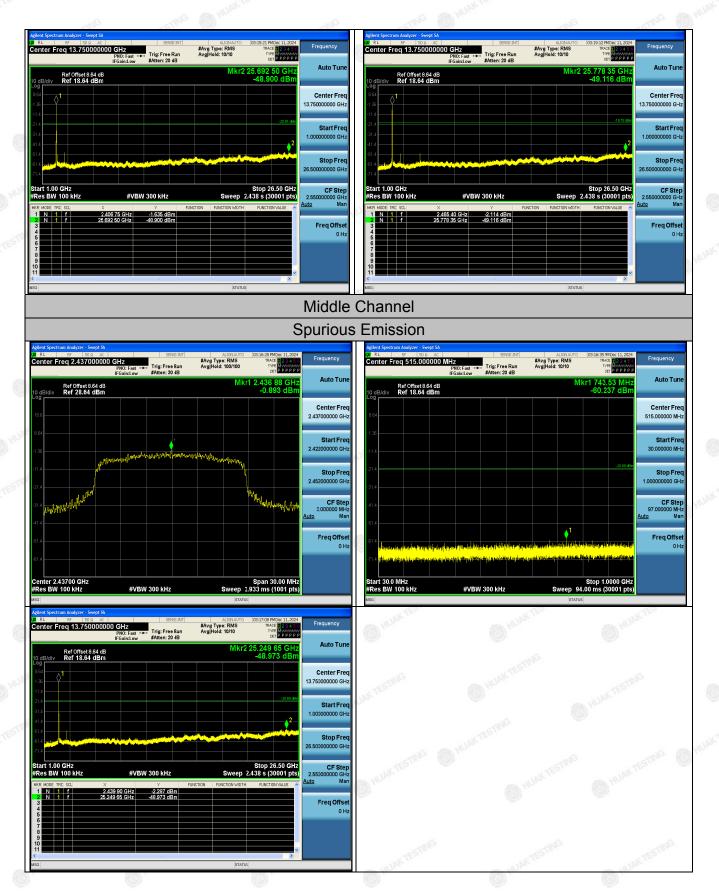
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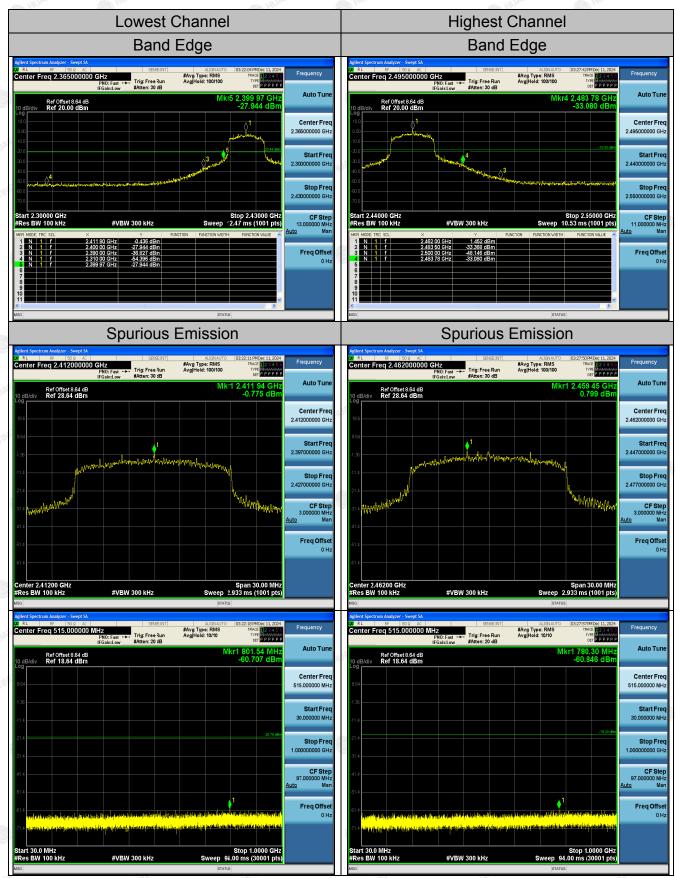


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802.11n (HT20) Modulation



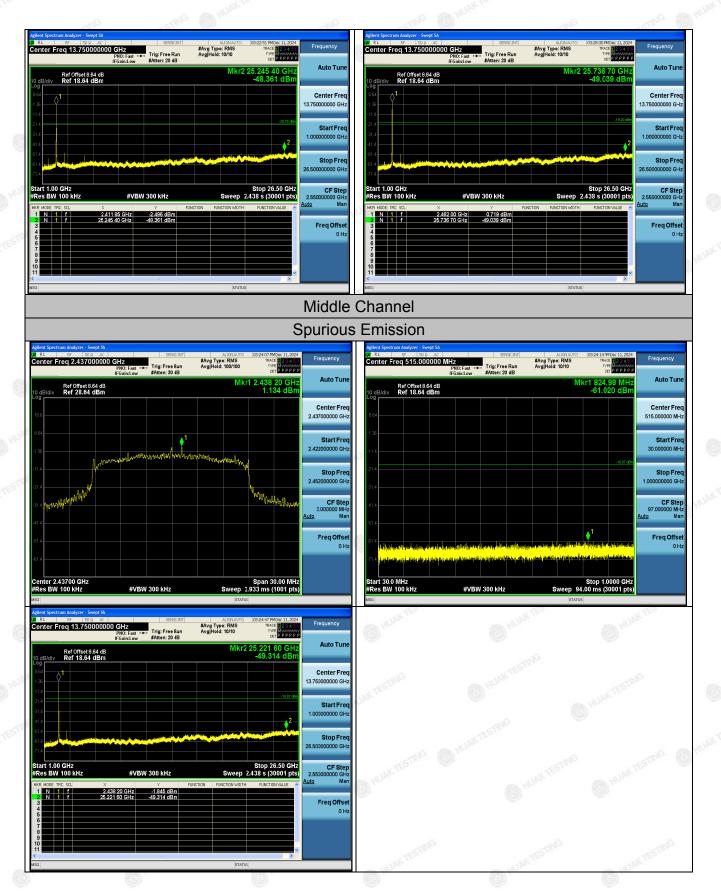
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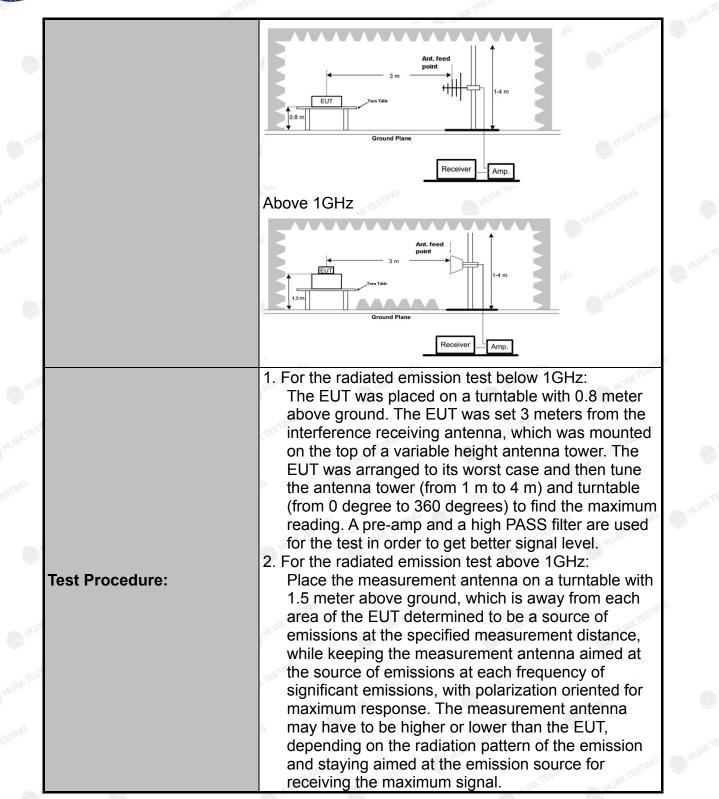
4.7. Radiated Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10): 2013	(HUAN		O HUAN
Frequency Range:	9 kHz to 25 (GHz		CTING		
Measurement Distance:	3 m	TESTING	A HU	AKTE		TESTING
Antenna Polarization:	Horizontal &	Vertical			0	HOME
Operation mode:	Transmitting	mode with	modulati	ion		
	Frequency	Detector	RBW	VBW	STING	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quas	si-peak Valu
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quas	si-peak Valu
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	si-peak Valu
	- TING	Peak	1MHz	3MHz		eak Value
	Above 1GHz	Peak	1MHz	10Hz		erage Value
	Frequency 0.009-0.490		Field Strength (microvolts/meter) 2400/F(KHz)		Measurement Distance (meters 300	
	0.490-1.7	705	24000/F(KHz)		30
	1.705-3	30	30		0	30
	30-88		100			3
	88-216	150			3	
Limit:	216-96	200		STIME	3	
	Above 9	60	500	HUP		3
	Frequency		Strength olts/meter)	Measure Distan (meter	се	Detector
	Above 1GHz	NUAK IL	500	JUNK 3		Average
		- U - E	5000	3		Peak
Test setup:	For radiated	emissions 3 m Turs Tale Ground Plane				unitesting
	30MHz to 10	GHz	6	restit		

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HUAK TESTING



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	, (p)-
0	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.
D MID	3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
JAN TEST	4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission
^{ING}	 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 = may hold.
Druce	max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.
AKTES	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
m ^G	minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS

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Test Instruments

	Rad	iated Emission	Test Site (966	i)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 20, 2024	Feb. 19, 2025
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 21, 2024	Feb. 20, 2026
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Agilent	83051A	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 21, 2024	Feb. 20, 2026
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 20, 2024	Feb. 19, 2025
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 20, 2024	Feb. 19, 2025
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 21, 2024	Feb. 20, 2026
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	I INT TESTING	max resimp @ Huse

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

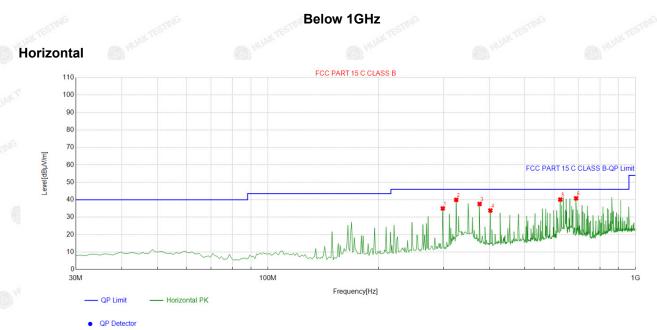
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Test Data

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



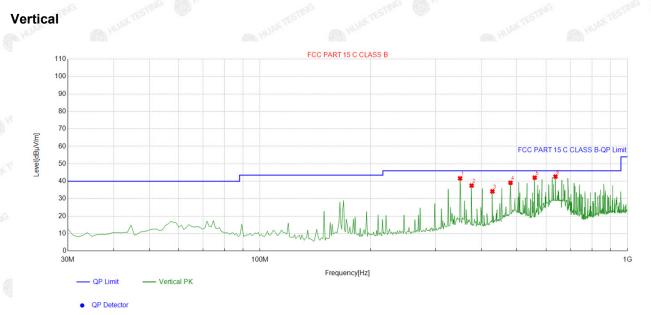
	Suspected List											
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle			
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
	1	298.95895	-11.75	46.80	35.05	46.00	10.95	100	93	Horizontal		
8	2	325.17517	-11.00	50.95	39.95	46.00	6.05	100	93	Horizontal		
	3	376.63663	-9.69	47.27	37.58	46.00	8.42	100	39	Horizontal		
	4	402.85285	-9.84	43.68	33.84	46.00	12.16	100	14	Horizontal		
	5	624.23423	-5.47	45.57	40.10	46.00	5.90	100	276	Horizontal		
	6	689.28928	-4.11	44.92	40.81	46.00	5.19	100	119	Horizontal		

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

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Suspected	List

ł		_		D "		1.1.14				
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
2	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
57	1	350.42042	-10.05	51.71	41.66	46.00	4.34	100	106	Vertical
	2	376.63663	-9.69	47.22	37.53	46.00	8.47	100	106	Vertical
G	3	429.06906	-8.75	42.96	34.21	46.00	11.79	100	79	Vertical
	4	480.53053	-8.25	47.37	39.12	46.00	6.88	100	155	Vertical
	5	559.17917	-6.42	48.49	42.07	46.00	3.93	100	130	Vertical
	6	636.85685	-5.13	47.81	42.68	46.00	3.32	100	155	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

2	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
62	TING	AKTED	- WAKTED
	what TE-	- HUNK TEL	- wurk the
	· · ·	⁽⁰⁾	
			out TESIN

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

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

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Above 1GHz

Radiated Emission Test

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.93	-3.64	49.29	74	o -24.71	peak
4824	41.73	-3.64	38.09	54	-15.91	AVG
7236	50.21	-0.95	49.26	74	-24.74	peak
7236	38.91	-0.95	37.96	54	-16.04	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	54.32	-3.64	50.68	74	o -23.32	peak
4824	41.63	-3.64	37.99	54	-16.01	AVG
7236	50.03	-0.95	49.08	74	-24.92	peak
7236	38.57	-0.95	37.62	54	-16.38	AVG

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

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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	48.91	-3.51	45.4	74	-28.6	peak
4874	40.26	-3.51	36.75	54	-17.25	AVG
7311	47.58	-0.82	46.76	74	-27.24	peak
7311	37.49	-0.82	36.67	54	-17.33	AVG

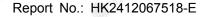
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	49.05	-3.51	45.54	74	-28.46	peak
4874	39.04	-3.51	35.53	54	-18.47	AVG
7311	48.48	-0.82	47.66	74	-26.34	peak
7311	38.67	-0.82	37.85	54	-16.15	AVG

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	48.81	-3.43	45.38	74	-28.62	peak
4924	39.65	-3.43	36.22	54	-17.78	AVG
7386	49.84	-0.75	49.09	74	-24.91	peak
7386	39.78	-0.75	39.03	54	-14.97	AVG

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

Vertical:

		(1997)			2009	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	51.48	-3.43	48.05	74	-25.95	peak
4924	39.26	-3.43	35.83	54	-18.17	AVG
7386	46.47	-0.75	45.72	74	-28.28	peak
7386	37.96	-0.75	37.21	54	-16.79	AVG
Remark: Factor	= Cable loss + An	tenna factor + A	Attenuator – Prean	nplifier; Level =	Reading + Fac	tor; Margin =

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; 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.

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FICATION

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	48.12	-3.64	44.48	74	-29.52	peak
4824	38.66	-3.64	35.02	54	-18.98	AVG
7236	48.41	-0.95	47.46	74	-26.54	peak
7236	39.72	-0.95	38.77	54	-15.23	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	53.32	-3.64	49.68	74	-24.32	peak
4824	38.74	-3.64	35.1	54	-18.9	AVG
7236	48.32	-0.95	47.37	74	-26.63	peak
7236	36.26	-0.95	35.31	54	-18.69	AVG

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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	52.56	-3.51	49.05	74	-24.95	peak
4874	40.13	-3.51	36.62	54	-17.38	AVG
7311	47.66	-0.82	46.84	74	-27.16	peak
7311	39.11	-0.82	38.29	54	-15.71	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	50.71	-3.51	47.2	74	-26.8	peak
4874	40.82	-3.51	37.31	54	-16.69	AVG
7311	48.15	-0.82	47.33	74	-26.67	peak
7311	40.28	-0.82	39.46	54	-14.54	AVG

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	dBµV/m)	(dBµV/m)	(dB)	Туре
4924	47.66	-3.43	44.23	74	-29.77	peak
4924	42.05	-3.43	38.62	54	-15.38	AVG
7386	47.15	-0.75	46.4	74	-27.6	peak
7386	40.27	-0.75	39.52	54	-14.48	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; 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	52.47	-3.43	49.04	74	-24.96	peak
4924	39.76	-3.43	36.33	54	-17.67	AVG
7386	48.15	-0.75	47.4	74	-26.6	peak
7386	35.74	-0.75	34.99	54	-19.01	AVG
emark: Factor	· = Cable loss + Ant	tenna factor + A	Attenuator – Prean	nplifier: Level = I	Reading + Facto	or: Margin =

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; 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.

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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	52.37	-3.64	48.73	74	-25.27	peak
4824	41.57	-3.64	37.93	54	-16.07	AVG
7236	48.93	-0.95	47.98	74	-26.02	peak
7236	36.61	-0.95	35.66	54	-18.34	AVG

Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[©] (dBµV/m)	(dB)	Туре
4824	54.17	-3.64	50.53	74	-23.47	peak
4824	37.11	-3.64	33.47	54	-20.53	AVG
7236	49.69	-0.95	48.74	74	-25.26	peak
7236	37.78	-0.95	36.83	54	-17.17	AVG

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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	53.84	-3.51	50.33	74.00	-23.67	peak
4874	40.87	-3.51	37.36	54.00	-16.64	AVG
7311	49.01	-0.82	48.19	74.00	-25.81	peak
7311	39.91	-0.82	39.09	54.00	-14.91	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	48.80	-3.51	45.29	74.00	-28.71	peak
4874	42.63	-3.51	39.12	54.00	-14.88	AVG
7311	48.94	-0.82	48.12	74.00	-25.88	peak
7311	39.76	-0.82	38.94	54.00	-15.06	AVG

Level-Limit.

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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data das Tras
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	54.18	-3.43	50.75	74	-23.25	peak
4924	40.69	-3.43	37.26	54	-16.74	AVG
7386	46.62	-0.75	45.87	74	-28.13	peak
7386	37.06	-0.75	36.31	54	-17.69	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4924	52.25	-3.43	48.82	74	-25.18	peak
4924	42.34	-3.43	38.91	54	-15.09	AVG
7386	47.95	-0.75	47.2	74	-26.8	peak
7386	38.61	-0.75	37.86	54	-16.14	AVG

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FICATION

Test Result of Radiated Spurious at Band edges

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	51.01	-5.81	45.2	74	-28.8	peak
2310.00	39.12	-5.81	33.31	54	-20.69	AVG
2390.00	47.62	-5.84	41.78	74	-32.22	peak
2390.00	37.22	-5.84	31.38	54	-22.62	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	UAKTESTANS
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	51.74	-5.81	45.93	(dbµ v/m) 74	-28.07 [©]	peak
2310.00	38.87	-5.81	33.06	54	-20.94	AVG
2390.00	49.66	-5.84	43.82	74	-30.18	peak
2390.00	38.16	-5.84	32.32	si ⁶ 54	-21.68	AVG

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	49.74	-5.81	43.93	74	-30.07	peak
2483.50	41.36	-5.81	35.55	54	-18.45	AVG
2500.00	45.85	-6.06	39.79	74	-34.21	peak
2500.00	35.62	-6.06	29.56	54	-24.44	AVG

Vertical:

	w lpb	all market	addin .		NP3	alla.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Typ
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	STING
2483.50	50.65	-5.81	44.84	74	-29.16	peak
2483.50	40.29	-5.81	34.48	54	-19.52	AVG
2500.00	49.58	-6.06	43.52	74	-30.48	peak
2500.00	37.62	-6.06	31.56	54	-22.44	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; 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.

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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)	
2310.00	52.27	-5.81	46.46	74 w ^w	-27.54	peak
2310.00	40.35	-5.81	34.54	54	-19.46	AVG
2390.00	49.45	-5.84	43.61	74	-30.39	peak
2390.00	39.23	-5.84	33.39	54	-20.61	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits 🔘	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	G
2310.00	49.73	-5.81	43.92	74	-30.08	peak
2310.00	42.69	-5.81	36.88	54	-17.12	AVG
2390.00	49.92	-5.84	44.08	74	-29.92	peak
2390.00	39.38	-5.84	33.54	54	-20.46	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; 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	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	49.25	-5.65	43.6	74	-30.4	peak
2483.50	39.01	-5.65	33.36	54	-20.64	AVG
2500.00	45.91	-5.65	40.26	74	-33.74	peak
2500.00	34.68	-5.65	29.03	54	-24.97	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	50.34	-5.65	44.69	74 HUA	-29.31	peak
2483.50	41.42	-5.65	35.77	54	-18.23	AVG
2500.00	46.71	-5.65	41.06	74	-32.94	peak
2500.00	39.75	-5.65	34.1	54	-19.9	AVG

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

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	49.06	-5.81	43.25	74	-30.75	peak
2310.00	38.04	-5.81	32.23	54	-21.77	AVG
2390.00	47.74	-5.84	41.9	74	-32.1	peak
2390.00	39.01	-5.84	33.17	54	-20.83	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	50.75	-5.81	44.94	74	-29.06	peak
2310.00	37.87	-5.81	32.06	54	-21.94	AVG
2390.00	47.68	-5.84	41.84	74	-32.16	peak
2390.00	37.53	-5.84	31.69	54	-22.31	AVG

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	50.02	-5.65	44.37	74 MUN	-29.63	peak
2483.50	38.21	-5.65	32.56	54	-21.44	AVG
2500.00	47.33	-5.65	41.68	74	-32.32	peak
2500.00	37.61	-5.65	31.96	54	-22.04	AVG

Vertical:

1105	MALL	MAR		MAN	101
Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	TESTING
48.85	-5.65	43.2	74	-30.8	peak
39.68	-5.65	34.03	54	-19.97	AVG
44.96	-5.65	39.31	74	-34.69	peak
39.04	-5.65	33.39	54	-20.61	AVG
	(dBµV) 48.85 39.68 44.96	(dBµV) (dB) 48.85 -5.65 39.68 -5.65 44.96 -5.65	(dBµV) (dB) (dBµV/m) 48.85 -5.65 43.2 39.68 -5.65 34.03 44.96 -5.65 39.31	(dBµV) (dB) (dBµV/m) (dBµV/m) 48.85 -5.65 43.2 74 39.68 -5.65 34.03 54 44.96 -5.65 39.31 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 48.85 -5.65 43.2 74 -30.8 39.68 -5.65 34.03 54 -19.97 44.96 -5.65 39.31 74 -34.69

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

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4.8. Antenna Requirement

Standard Applicable

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

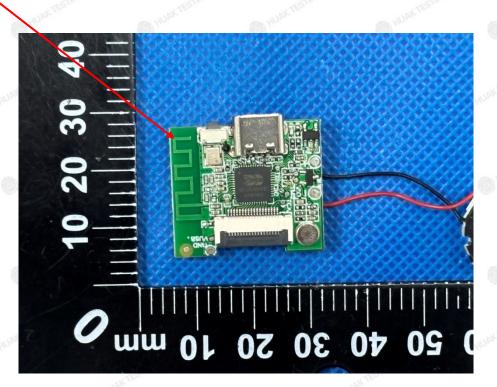
Refer to statement below for compliance.

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

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3.85dBi.

<u>Antenna</u>



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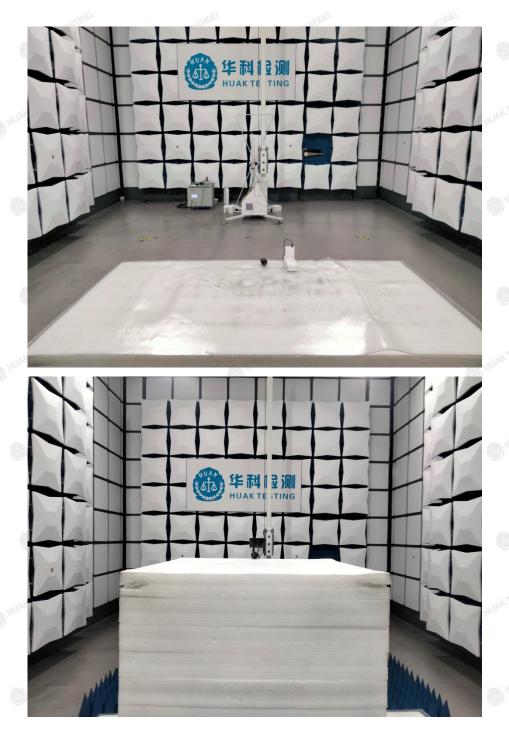


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5. Photograph of Test

Radiated Emissions



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Conducted Emission



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DAT.

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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