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FCC Test Report

Test Report On Behalf of AC Infinity Inc. For CONTROLLER 79 PRO Model No.: CTR79P

FCC ID: 2AXMF-CTR79P

Prepared For:

AC Infinity Inc.

21880 Baker Parkway, City of Industry, CA, 91789, United States

Prepared By:

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

 Date of Test:
 Dec. 19, 2023 ~ Dec. 27, 2023

 Date of Report:
 Dec. 27, 2023

 Report Number:
 HK2312196211-2E

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Test Result Certification

Applicant's Name:	AC Infinity Inc.		
Address:	21880 Baker Parkway, City of Industry, CA, 91789, United States		
Manufacturer's Name	AC Infinity Inc.		
Address	21880 Baker Parkway, City of Industry, CA, 91789, United States		
Product Description			
Trade Mark	AC INFINITY		
Product Name	CONTROLLER 79 PRO		
Model and/or Type Reference :	CTR79P		
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. 19, 2023 ~ Dec. 27, 2023
Date of Issue	Dec. 27, 2023
Test Result	Pass

Testing Engineer

Len lian

Len Liao

Technical Manager

Mon

Sliver Wan

ason Mou

Authorized Signatory

Jason Zhou

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** Modified History **

Revision 1.0 Initial Test Report Release Dec. 27, 2023 Jason Zhou	Revision 1.0 Initial Test Report Release Dec. 27, 2023 Jason Zhou	Revision	Description	Issued Data	Remark
		Revision 1.0		Dec. 27, 2023	Jason Zhou
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HUAK TESTING

1. Test Result Summary

1.1. Test Procedures and Results

§15.203/§15.247(b)(4)	PASS	
	Ola	
§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	
	§15.247(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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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
^{%6} 1	Conducted Emission	±2.71dB
2	RF power, conducted	±0.37dB
3	Spurious emissions, conducted	±0.11dB
4.00	All emissions, radiated(<1G)	±3.90dB
5	All emissions, radiated(>1G)	±4.28dB
6	6 Temperature	
TEST 7	Humidity	±1.0%

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2. EUT Description

2.1. General Description of EUT

IN LAK TES	WAKTES	WAK TED	IN LAK TES	NAK TEN
Equipment:	CONTROLLER	79 PRO		
Model Name:	CTR79P	NG	LAK TESTING	JUG
Series Model:	N/A	0	No	HUAKTESIN
Model Difference:	N/A		STING	w.
FCC ID:	2AXMF-CTR79	TESTING HUAN	TESTIN	G W TESTING
Antenna Type:	PCB Antenna		O HUNK	O HUM
Antenna Gain:	3.18dBi			
Operation Frequency:	802.11b/g/n 20:2 802.11n 40: 242		Z HUAN TESTING	HUAK TESTIN
Number of Channels:	802.11b/g/n20: 802.11n 40: 7Cl		AKTESTING	- SG
Modulation Type:	CCK/OFDM/DB	PSK/DAPSK	HO	HUAKTESTIN
Power Source:	Input: AC100-24 Output: 1100W,		esting	i and
Power Rating:	Input: AC100-24 Output: 1100W,		HUAK TEST	O HUAKTESIN

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	Channel List For 802.11b/802.11g/802.11n (HT20)							
Char	nnel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	100	2412	04	2427	07	2442	10	2457
02	Ś	2417	05	2432	08	2447	11	2462
03	}	2422	06	2437	09	2452	-STING	

2.2. Carrier Frequency of Channels

O HOM	Channel List For 802.11n (HT40)					O HOM	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
STING	KTEST C	04	2427	07	2442	TESTIN	aKTES
@ H		05	2432	08	2447	HUAN	Co-Hor
03	2422	06	2437	09	2452	I	

Note:

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

2.3. 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 below 1GHz Radiation testing:

EUT

AC Main

EUT Load

Operation of EUT during above1GHz Radiation testing:

AC Main -

ING

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. General Information

3.1. Test Environment and Mode

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

_						
3	Temperature:	25.0 °C	HUAKTESIN	HUAKTES		
	Humidity:	56 % RH		0		
3	Atmospheric Pressure:	1010 mbar	AK TESTING	. G		

Test Mode:

Keep the EUT in continuous transmitting by select channel and modulations
by scient ondriner and modulations

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

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

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

Final Test Mode:

Operation mode: Keep the EUT in continuous transmitting with modulation

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

2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11n(H40).

3. Mode Test Duty Cycle

Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11b	0.927	-0.331
802.11g	0.939	-0.272
802.11n(H20)	0.939	-0.272
802.11n(H40)	0.316	-4.998
(E372)	MACON .	105333

Test plots as follows:

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3.2. Description of Support Units

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

	W TES	y The	1.1	TED	y The	V TES
	ltem	Equipment	Trade Mark	Model/Type No.	Specification	Remark
	TEST16	CONTROLLER 79 PRO	AC INFINITY	CTR79P	N/A	EUT
1P		AKTESTIAL	6 HUM	AK TESTING	O HUM	TESTING
(11)	6	0"	-csTING	0,4	-sme	
		-16 -mMG	HUAKIL	in a		THE HU
	CO HUAKTES	HUAK TES	0	UAK TESTIN	HUNKTESTIN	HUAKTES
ĺ						
		1	•			•

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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4. Test Results and Measurement Data

4.1. Conducted Emission

Test Specification

		45.007	W TESTING	JOK TES
Test Requirement:	FCC Part15 C Secti	on 15.207	0	HOM
Test Method:	ANSI C63.10:2013		TING	
Frequency Range:	150 kHz to 30 MHz			
Receiver Setup:	RBW=9 kHz, VBW=	30 kHz, Sweep	time=auto	
	Frequency range	Limit (o	BuV)	
	(MHz)	Quasi-peak	Average	JAK TES I
Limits:	0.15-0.5	66 to 56* 💿	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	WANTESTING ON	ESTALS	KTESTING	NK TES
	Refer	ence Plane		
	40cn	1		
	Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilizat Test table height=0.8m	EMI Receiver		
		-NG	Ola	
Test Mode:	Transmitting with me	odulation	NY TESTING	HUAKTES
Test Mode: Test Procedure:	 The E.U.T is conruline impedance stiprovides a 500hm measuring equipm The peripheral de power through a la coupling impedant refer to the block photographs). Both sides of A.C conducted interferemission, the relative interface cable 	ected to the ma abilization netwo /50uH coupling nent. vices are also co ISN that provide ce with 50ohm t diagram of the te line are checke rence. In order to tive positions of es must be chan	ork (L.I.S.N.). impedance fo onnected to th es a 50ohm/50 ermination. (P est setup and d for maximum o find the max equipment an ged according	This r the e mai DuH Please m imum id all o g to
	 The E.U.T is conruline impedance structure provides a 500hm measuring equipm The peripheral de power through a l coupling impedan refer to the block photographs). Both sides of A.C conducted interferemission, the relation of the relating the relation of the relation of the relation of the relat	ected to the ma abilization netwo /50uH coupling nent. vices are also co ISN that provide ce with 50ohm t diagram of the te line are checke rence. In order to tive positions of es must be chan	ork (L.I.S.N.). impedance fo onnected to th es a 50ohm/50 ermination. (P est setup and d for maximum o find the max equipment an ged according	This r the e mai DuH Please m imum id all c g to

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	Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	Feb. 16, 2024		
LISN	R&S	ENV216	HKE-002	Feb. 17, 2023	Feb. 16, 2024		
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 17, 2023	Feb. 16, 2024		
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 17, 2023	Feb. 16, 2024		
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).

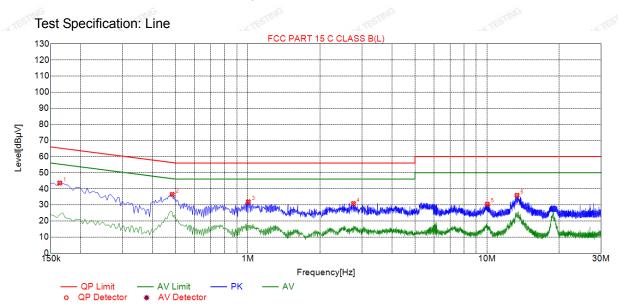
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4.2. Test Result

All modes have been tested. Only the worst result was reported as below:



Suspected List

	Sus	speciec	LISL						
×	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
	1	0.1635	43.57	19.98	65.28	21.71	23.59	PK	L
202	2	0.4830	36.52	20.04	56.29	19.77	16.48	PK	L
	3	1.0050	31.91	20.06	56.00	24.09	11.85	PK	L
2	4	2.7645	30.79	20.21	56.00	25.21	10.58	PK	L
× .	5	10.0320	30.42	20.06	60.00	29.58	10.36	PK	L
Ś	6	13.3440	35.93	19.96	60.00	24.07	15.97	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

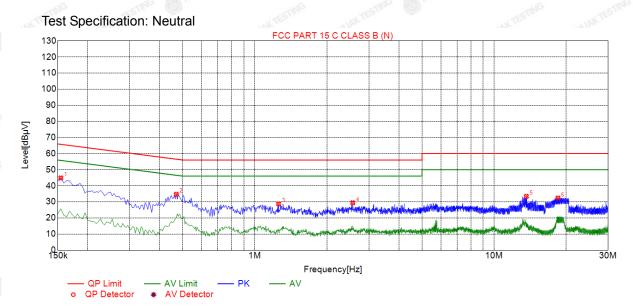
Level=Test receiver reading + correction factor

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Su	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.1545	44.87	20.03	65.75	20.88	24.84	PK	Ν		
2	0.4695	34.71	20.04	<mark>56.52</mark>	21.81	14.67	PK	Ν		
3	1.2570	28.72	20.09	56.00	27.28	8.63	PK	Ν		
4	2.5665	29.44	20.20	56.00	26.56	9.24	PK	Ν		
5	13.6500	33.44	19.96	60.00	26.56	13.48	PK	Ν		
6	18.5055	32.38	20.05	60.00	27.62	12.33	PK	Ν		

Remark: Margin = Limit – Level

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

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CATION

HUAK TESTING

4.3. Maximum Conducted Output Power

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test Setup:	RF automatic control unit
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the 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	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	[©] N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024		
Power meter	Agilent	E4419B	HKE-085	Feb. 17, 2023	Feb. 16, 2024		
Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	Feb. 16, 2024		
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024		

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	NG	TX 802.11b Mode	à
Test Channel	Frequency	Maximum Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	13.95	30
CH06	2437	14.56	30
CH11	2462	14.75	30
0	0	TX 802.11g Mode	0.
CH01	2412	13.32	30
CH06	2437	13.89	30
CH11	2462	14.32	30
-STING	HUAKTE	TX 802.11n20 Mode	restil
CH01	2412	12.35	30
CH06	2437	12.97	30
CH11	2462	13.22	30
	0	TX 802.11n40 Mode	
CH03	2422	12.33	30
CH06	2437	12.31	30
CH09	2452	12.50	30

Note: The test results including the cable loss.

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4.4. Emission Bandwidth

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	STI
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02	
Limit:	>500kHz	
Test Setup:	Spectrum Analyzer	MG
Test Mode:	Transmitting mode with modulation	
Test Procedure:	 The testing follows FCC KDB Publication 558074 DC 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 mak an accurate measurement. The 6dB bandwidth mus be greater than 500 kHz. Measure and record the results in the test report. 	s
Test Result:	PASS	

Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024	
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024	

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)					
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	8.520	16.320	17.440	32.000		
Middle	9.440	16.320	17.280	31.120		
Highest	9.600	16.320	17.040	31.040		
Limit:	S HUAKTES	>5	00kHz			
Test Result:	- 10M	ESTING HUAK TESTIN	PASS	INVO HUAKTESIN C		

Test plots as follows:

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802.11b Modulation

Lowest channel



Middle channel



Highest channel



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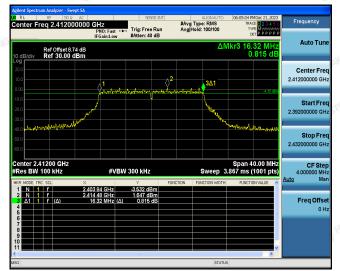
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802.11g Modulation

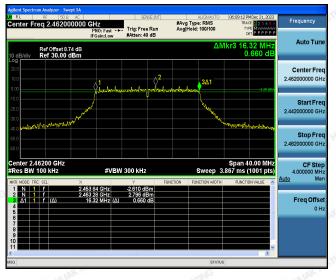
Lowest channel



Middle channel



Highest channel



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FICATION

Frequenc

Center Fre 2.412000000 GH

Start Fre

Stop Fre

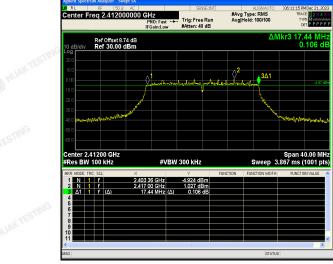
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Freq Offs 0 H

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802.11n (HT20) Modulation

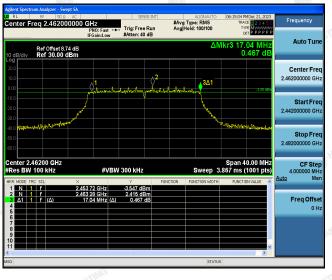
Lowest channel



Middle channel



Highest channel



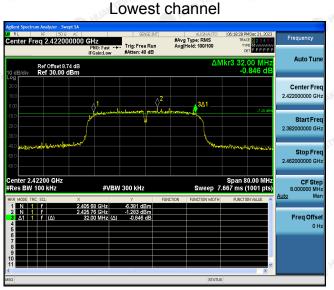
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity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

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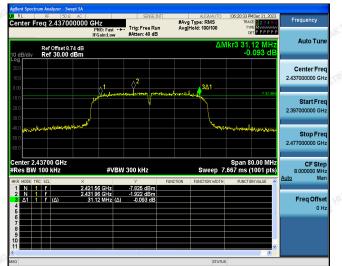


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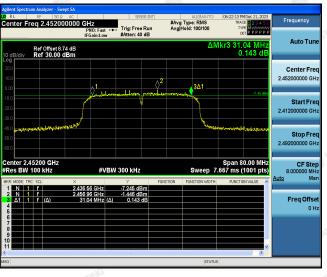
802.11n (HT40) Modulation



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:	 The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = Peak, Sweep time = auto couple. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 				
Test Result:	PASS				

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Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 17, 2023	Feb. 16, 2024
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024
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	Result (dBm/30KHz)	Result (dBm/3kHz)
	Lowest	-0.35	-10.35
802.11b	Middle	-0.07	-10.07
	Highest	0.61	-9.39
	Lowest	-1.91	-11.91
802.11g	Middle	-1.15	-11.15
	Highest	-0.81	-10.81
802.11n(H20)	Lowest	-2.83	-12.83
	Middle 🌑	-2.21	-12.21
	Highest	-1.81	-11.81
802.11n(H40)	Lowest	-4.61	-14.61
	Middle	-4.34	-14.34
	Highest	-4.11	-14.11
PSD Test Resu	lt (dBm/3kHz)= PS	SD Test Result (dBm/30kl	Hz)-10
Limit: 8dBm/3kł	Ηz		
Test Result:	HUAK TES	PASS	TED .

Test plots as follows:

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802.11b Modulation



Middle channel



Highest channel



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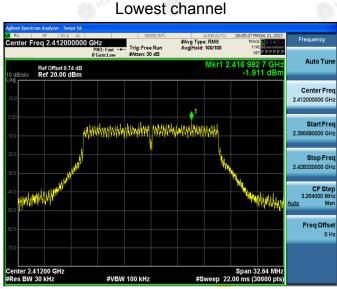
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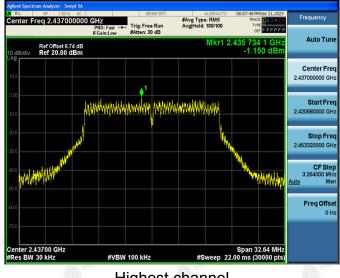
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FICATION

802.11g Modulation



Middle channel



Highest channel

Frequency ter Freq 2.462000000 GHz #Avg Type: RMS Avg|Hold: 100/100 Trig: Free Run M Auto Tu 0 736 2 G -0.809 dl Ref Offset 8.74 dB Ref 20.00 dBm Center Fre 2.46200000 GH Start Fr 2.445680000 Stop Fre 2.478320000 GH CF S Freq Offs Span 32.64 M r 2.46200 GHz BW 30 kHz #VBW 100 kHz

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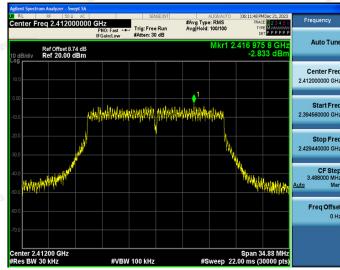
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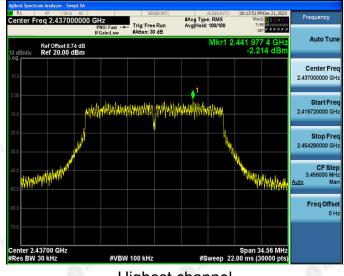
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802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel

Frequency er Freq 2.4620 000 GH #Avg Type: RMS Avg|Hold: 100/100 Trig: Free Run M Auto Tu 6 977 5 C -1.805 d Ref Offset 8.74 dB Ref 20.00 dBm Center Fre 2.46200000 GH Start Fr 2.444960000 Stop Fre 2.479040000 GH CF S Freq Offs er 2.46200 GHz BW 30 kHz Span 34.08 #VBW 100 kHz

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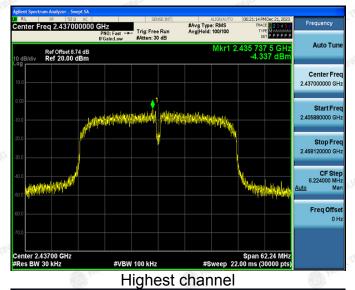
EST FIF

802.11n (HT40) Modulation

Lowest channel



Middle channel



er Freq 2.452000000 GHz PNO: Fast IFGain:Lov Frequency #Avg Type: RMS Avg|Hold: 100/100 Trig: Free Run TYPE M Auto Tun 49 474 3 G -4.114 dE Ref Offset 8.74 dB Ref 20.00 dBm Center Free 2.452000000 GH Start Fre Stop Fre CF Ste 6.208000 MH Freq Offs ter 2.45200 GHz s BW 30 kHz #VBW 100 kHz

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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 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. 17, 2023	Feb. 16, 2024	
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 17, 2023	Feb. 16, 2024	
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 17, 2023	Feb. 16, 2024	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024	
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A	

Test Instruments

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

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Test Data





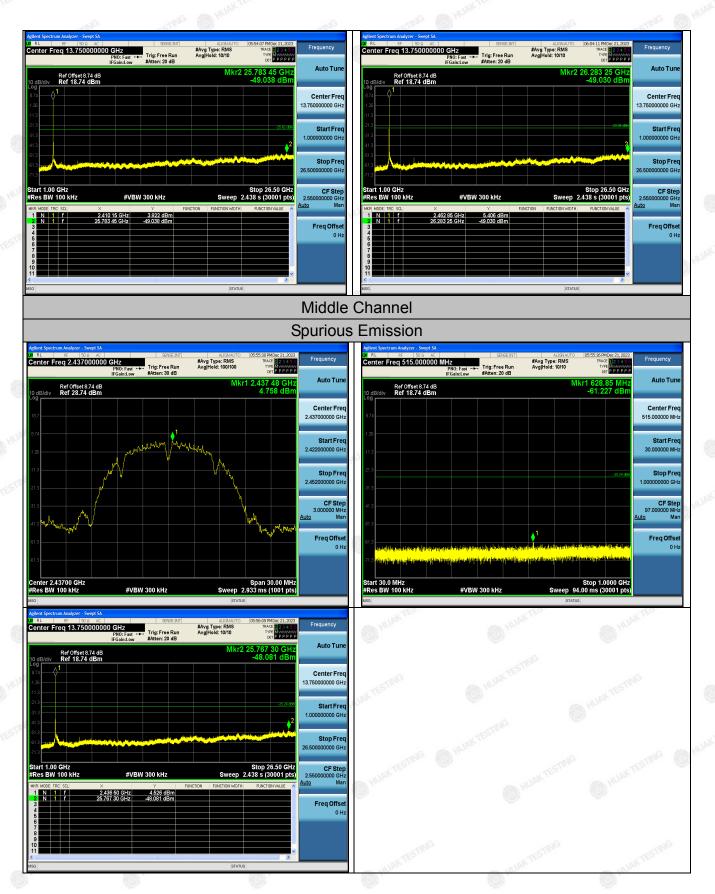
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