



FCC RF Test Report

For

Shenzhen Hangshi Technology Co.,Ltd

Test Standards: Part 15C Subpart C §15.249

Product Description: Wireless Mouse

Tested Model: <u>MW173-T02</u>

Additional Model No.: N/A

FCC ID: <u>2AKHJ-MW173-T02</u>

Report No.: <u>EC2211010RF01</u>

Tested Date: 2022-10-28 to 2022-11-30

Issued Date: <u>2022-11-30</u>

Prepared By:

Luo xiang/ Engineer

Approved By:

Tiny Yang / RF Manager

Testing laboratory:

Hunan Ecloud Testing Technology Co., Ltd.

Building A1, Changsha E Center, No. 18 Xiangtai Avenue, Liuyang Economic and Technological Development Zone, Hunan, P.R.C

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Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Hunan Ecloud Testing Technology Co., Ltd., the test report shall not be reproduced except in full.





Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2022.11.30	Valid	Original Report

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TABLE OF CONTENTS

1	TEST	Γ LABORATORY	5
	1.1	Test facility	5
2	GEN	ERAL DESCRIPTION	6
	2.1	Applicant	6
	2.2	Manufacturer	6
	2.3	General Description Of EUT	6
	2.4	Modification of EUT	7
	2.5	Support equipment List	7
	2.6	Applicable Standards	7
3	TEST	T CONFIGURATION OF EQUIPMENT UNDER TEST	8
	3.1	Descriptions of Test Mode	8
	3.2	Test Mode	9
	3.3	Test Setup	10
	3.4	Measurement Results Explanation Example	12
4	TEST	T RESULT	13
	4.1	20dB Occupy Bandwidth Measurement	13
	4.2	Field Strength of The Fundamental Signal, Radiated Band Edges and Spurious Er	nission
		Measurement	_
	4.3	AC Conducted Emission Measurement	
	4.4	Antenna Requirements	43
5	LIST	OF MEASURING EQUIPMENT	44
6	UNC	ERTAINTY OF EVALUATION	46
ΑI	PPENI	DIX A. SETUP PHOTOGRAPHS	47

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Summary of Test Result

FCC Rule	Description	Limit	Result	Remark
15.215(c)	20dB Bandwidth	NA	Pass	Test Engineer: Luo Xiang
15.249(a)	Field strength of the fundamental signal	15.249(a)	Pass	Test Engineer: Jack Liu
15.249(a)(d)/15.209	Radiated Band Edges and Radiated Spurious Emission	15.249(a)(d)/15.209	Pass	Under limit 5.11 dB at 7290 MHz
15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 19.04 dB at 0.637 MHz
15.203	Antenna Requirement	N/A	Pass	-

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1 Test Laboratory

1.1 Test facility

CNAS (accreditation number:L11138)

Hunan Ecloud Testing Technology Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1244, Test Firm Registration

Number:793308)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

ISED(CAB identifier: CN0012, ISED# :24347)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the Wireless Device Testing Laboratories list of innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

A2LA (Certificate Number: 4895.01)

Hunan Ecloud Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

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2 General Description

2.1 Applicant

Shenzhen Hangshi Technology Co.,Ltd

Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.

2.2 Manufacturer

Shenzhen Hangshi Technology Co.,Ltd

Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.

2.3 General Description Of EUT

Product	Wireless Mouse	
Model No.	MW173-T02	
Additional No.	N/A	
Difference Description	N/A	
FCC ID	2AKHJ-MW173-T02	
Power Supply	5Vdc (adapter or host equipment) 3.7Vdc (Li-ion)	
Modulation Type	GFSK	
Operating Frequency 2405MHz~2470MHz		
Number Of Channel	nnel 8	
Antenna Type	PCB Antenna with -1.2dBi gain	
Sample no. 2211010R-1/2~2/2		
Sample Received Date	2022/11/07	
HW Version	V1.0	
SW Version	V1.0	
I/O Ports	Refer to user's manual	
Accessory Devices	Refer to note as below	

NOTE:

- 1. The above EUT information is declared by manufacturer. Our laboratory is not responsible for the information provided by the manufacturer.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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2.4 Modification of EUT

No modifications are made to the EUT during all test items.

2.5 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Lenovo	Notebook	E470C	N/A	FCC sDoC
HUAWEI	Adapter	HW-059200CHQ	N/A	FCC sDoC
UGREEN	Type-C Cable	N/A	N/A	N/A
Shenzhen				
Hastech industries	2.4G Dongle	HW086-1	N/A	FCC sDoC
Co., Ltd				

2.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.249
- ANSI C63.10-2013

Remark:

1. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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3 Test Configuration of Equipment Under Test

3.1 Descriptions of Test Mode

The Operation Frequency each of channel as follows:

Operation Frequency each of channel			
Channel	Frequency	Channel	Frequency
01	2405MHz	05	2440MHz
02	2413MHz	06	2450MHz
03	2422MHz	07	2460MHz
04	2430MHz	08	2470MHz

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

- a. Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.
- b. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

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3.2 Test Mode

3.2.1 Antenna Port Conducted Measurement

	Summary table of Test Cases		
Test Item	Test Item 2.4G Wireless		
Canduated	Mode 1: CH01_2405 MHz		
Conducted	Mode 2: CH04_2430 MHz		
Test Cases	Mode 3: CH08_2470 MHz		

3.2.2 Radiated Emission Test (Below 1GHz)

	2.4G Wireless		
Radiated	Mode 1:Transmitting	Mode 1: CH01_2405 MHz	
Test Cases		Mode 2: CH04_2430 MHz	
	Mode 2:Transmitting+Charging	Mode 3: CH08_2470 MHz	

- Note: 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
 - 2. All above modes were tested, but only the worst case test mode 1 while transmitting was reported.

Radiated Emission Test (Above 1GHz) 3.2.3

	2.4G Wireless		
Radiated	Mode 1:Transmitting	Mode 1: CH01_2405 MHz	
Test Cases		Mode 2: CH04_2430 MHz	
	Mode 2:Transmitting+Charging	Mode 3: CH08_2470 MHz	

- Note: 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
 - 2. All above modes were tested, but only the worst case test mode 1 while transmitting was reported.

3.2.4 Power Line Conducted Emission Test:

AC	
Conducted	Mode 1 : Wireless 2.4G Link + USB Cable (Charging from Adapter)
Emission	

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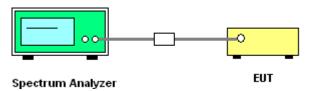
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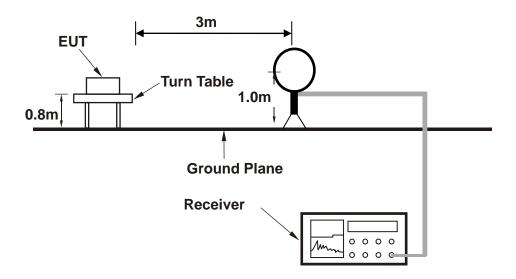
3.3 Test Setup

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Setup diagram for Conducted Test



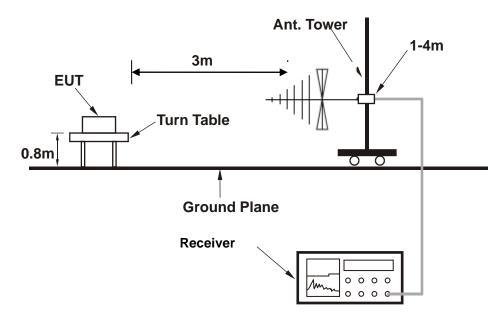
Setup diagram for Radiation(9KHz~30MHz) Test



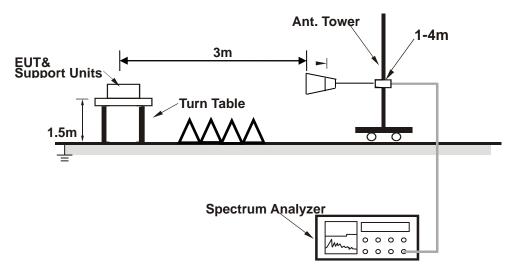
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Setup diagram for Radiation(Below 1G) Test



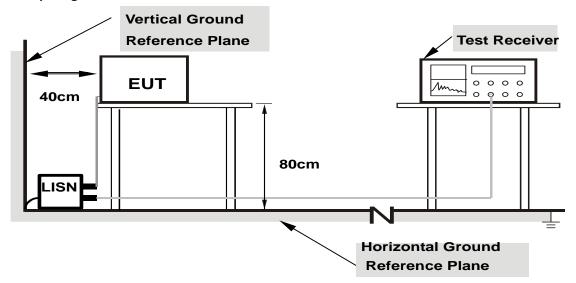
Setup diagram for Radiation(Above1G) Test



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Setup diagram for AC Conducted Emission Test



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$5 + 10 = 15$$
 (dB)

For all radiated test items:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level Over Limit (dB μ V/m) = Level(dB μ V/m) - Limit Level (dB μ V/m)



4 Test Result

4.1 20dB Occupy Bandwidth Measurement

4.1.1 Limit of 20dB Occupy Bandwidth

None; for reporting purposes only.

4.1.2 Test Procedures

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Turn on the EUT and connect it to measurement instrument.
- 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.

Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;

RBW = 1% to 5% of the 20 dB bandwidth; VBW = approximately 3 times RBW; Sweep = auto;

Detector function = peak; Trace = max hold.

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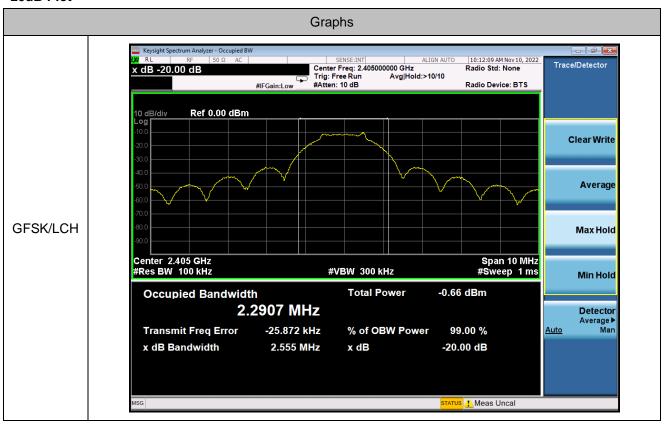




4.1.3 Test Result of 20dB Bandwidth

Test Mode :	2.4G Wireless Transmitting	Temperature	:	21~23℃
Test Engineer :	Luo Xiang	Relative Hum	nidity:	41~43%
Channel.	20dB Bandwidth [MHz]		Verdict	
LCH	2.555			PASS
MCH	2.555			PASS
HCH	2.566			PASS

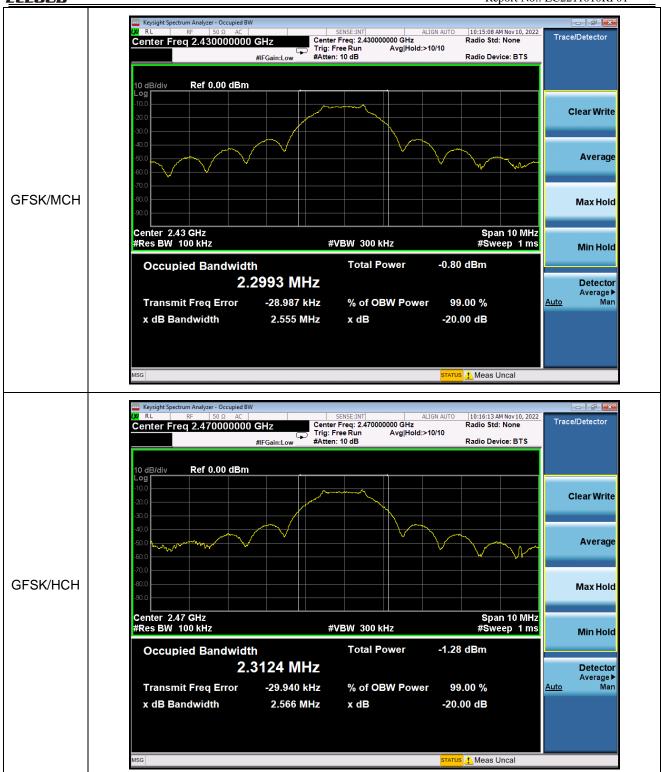
20dB Plot



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4.2 Field Strength of The Fundamental Signal, Radiated Band Edges and Spurious Emission Measurement

4.2.1 Limit of Fundamental Signal, Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209&15.249 limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Frequency	Field Strength	Measurement Distance	
(MHz)	(millivolts/meter)	(meters)	
2400-2483.5	50	3m	

Note: The frequency range from 9KHz to 10th harmonic (25GHz) are checked, and no any emissions were found from 18GHz to 25GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.2.2 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The measurement distance is 3 meter.
- 3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. Use the following spectrum analyzer settings:

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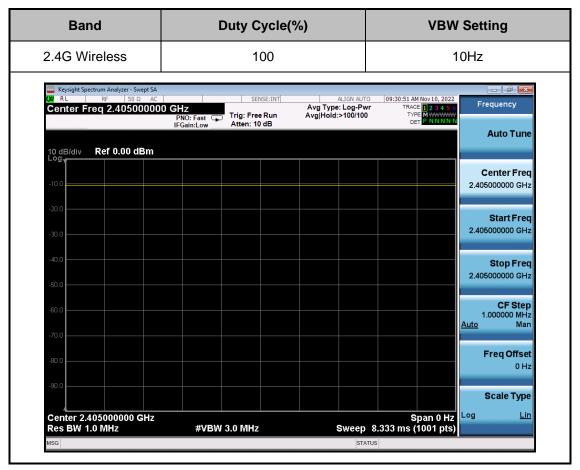




- (1) Span shall wide enough to fully capture the emission being measured;
- (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW >RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
- (3) For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 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.



Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

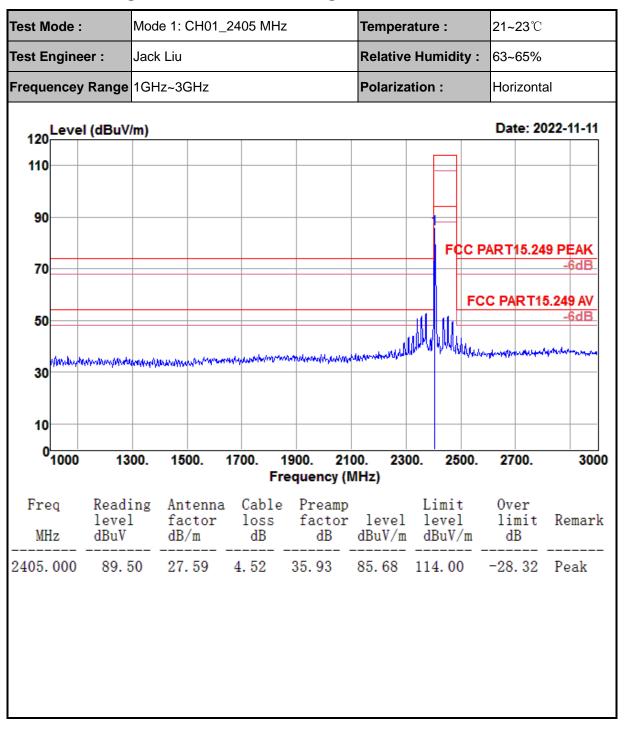
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4.2.3 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

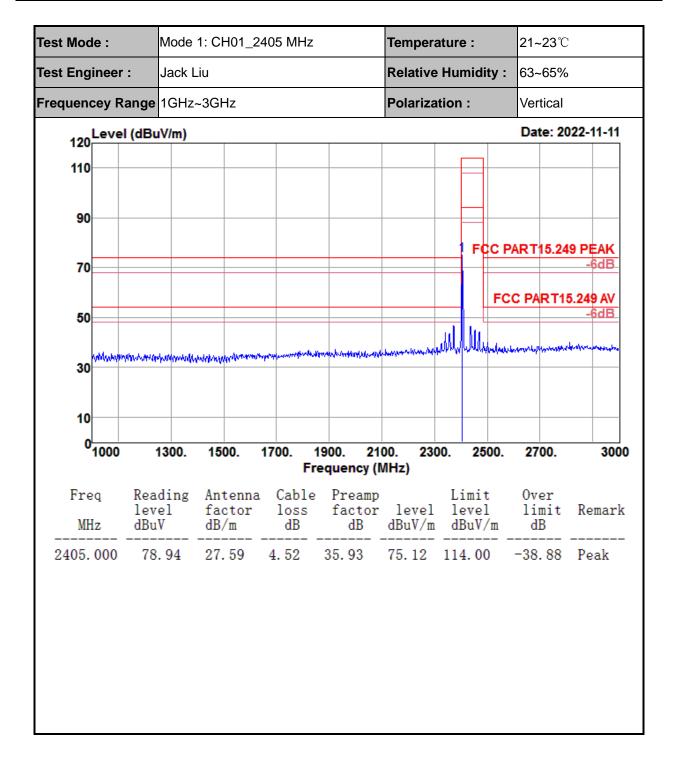
4.2.4 Field Strength of The Fundamental Signal



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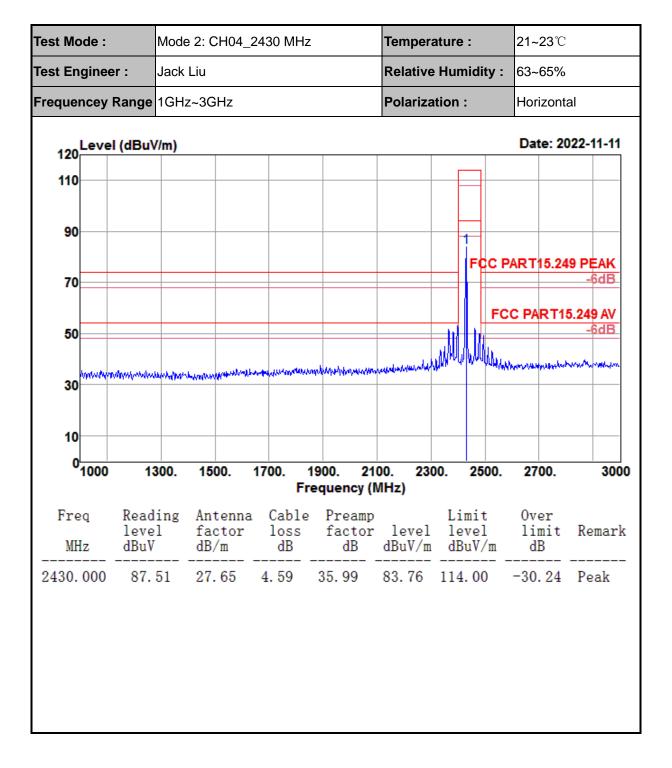




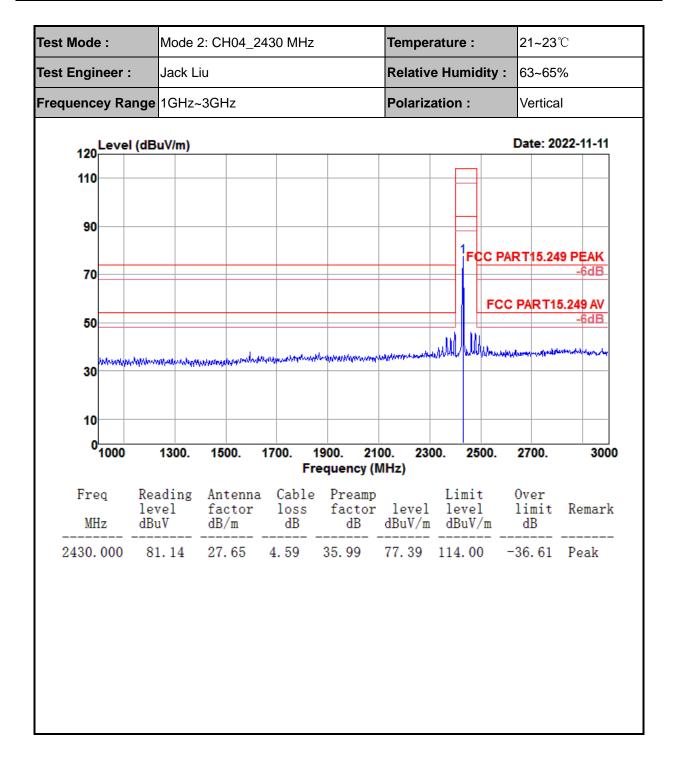




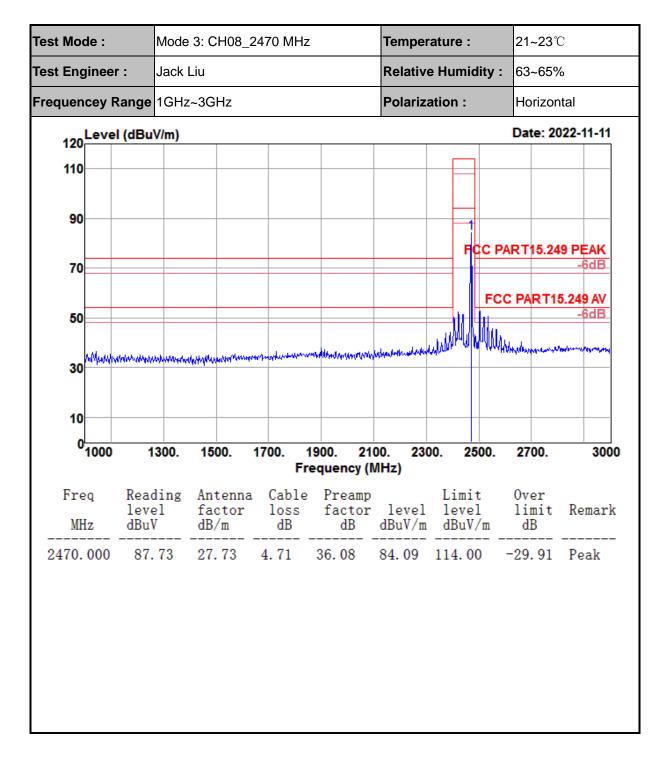




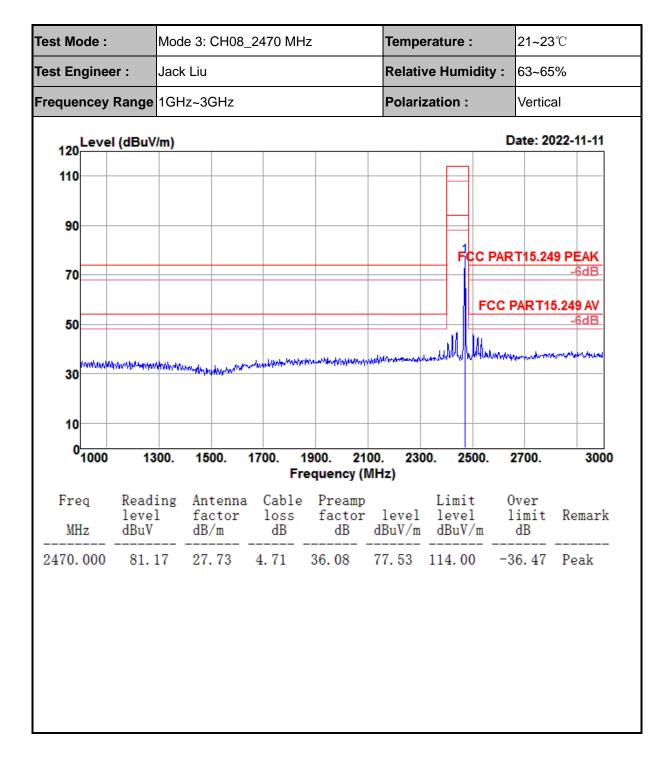






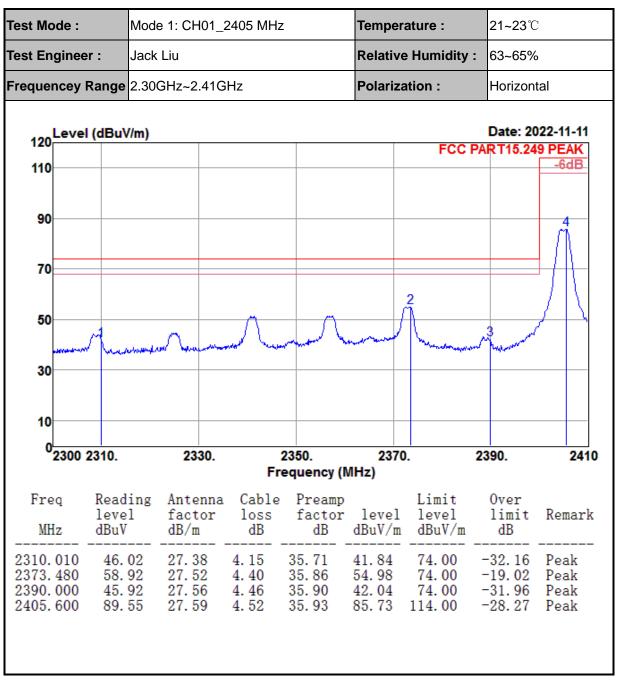






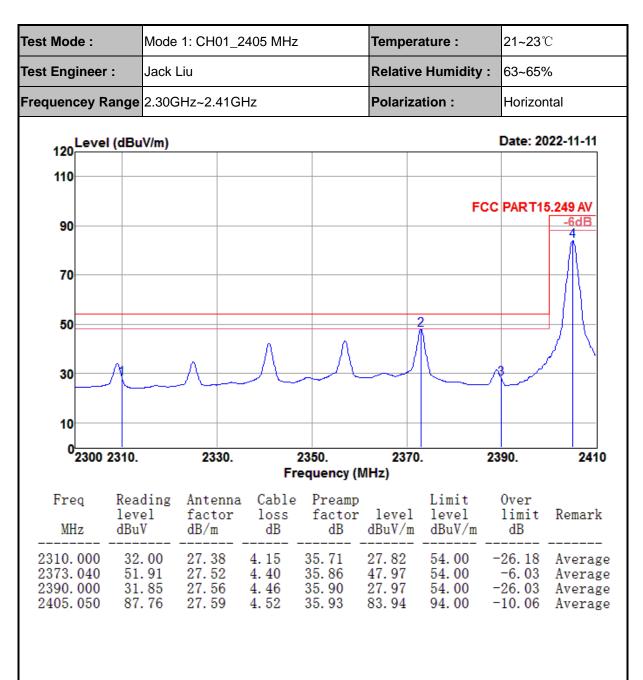


4.2.5 Test Result of Radiated Spurious at Band Edges

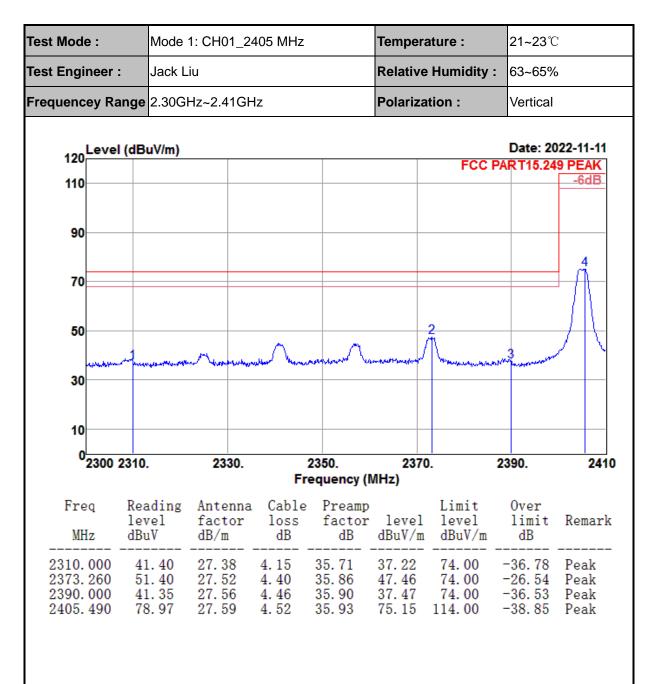


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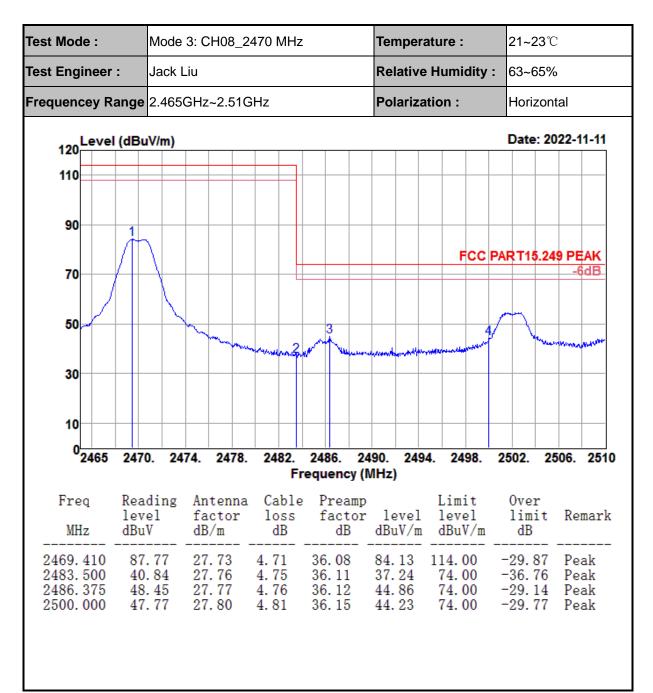




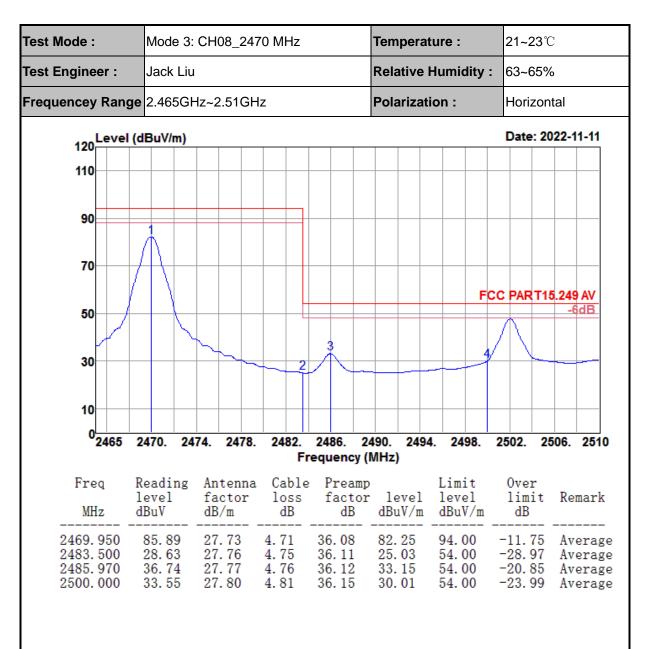
Test Mode: Mode 1: CH01_2405 MHz 21~23℃ Temperature : Test Engineer: Jack Liu Relative Humidity: 63~65% Frequencey Range 2.30GHz~2.41GHz Polarization: Vertical 120 Level (dBuV/m) Date: 2022-11-11 110 FCC PART15.249 AV -6dB 90 70 50 2 30 10 ⁰2300 2310. 2330. 2350. 2370. 2390. 2410 Frequency (MHz) Freq Reading Antenna Cable Preamp Limit 0ver level factor loss factor level level limit Remark MHz dBuV dB/m dB dB dBuV/m dBuV/m dΒ 24.04 2310.000 28.22 27.38 4.15 35.71 54.00 -29.96Average 2373.040 43.17 27.52 4.40 35.86 39.23 54.00 -14.77Average 24.23 2390.000 28.11 27.56 4.46 35.90 54.00 -29.77Average 2405.050 77.28 27.59 4.52 35.93 73.46 94.00 -20.54 Average

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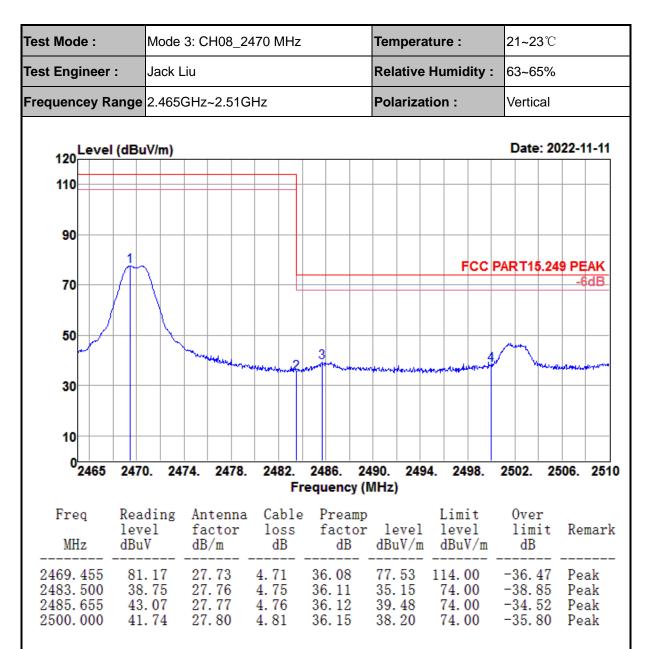




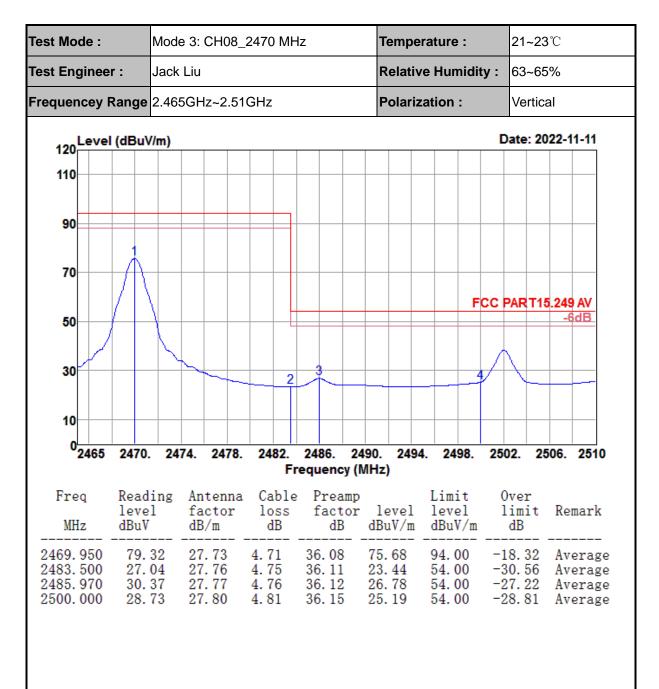








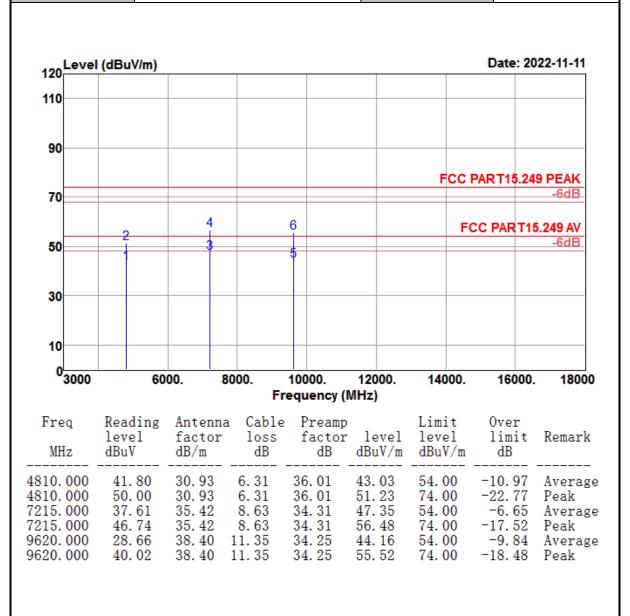






4.2.6 Test Result of Radiated Spurious Emission

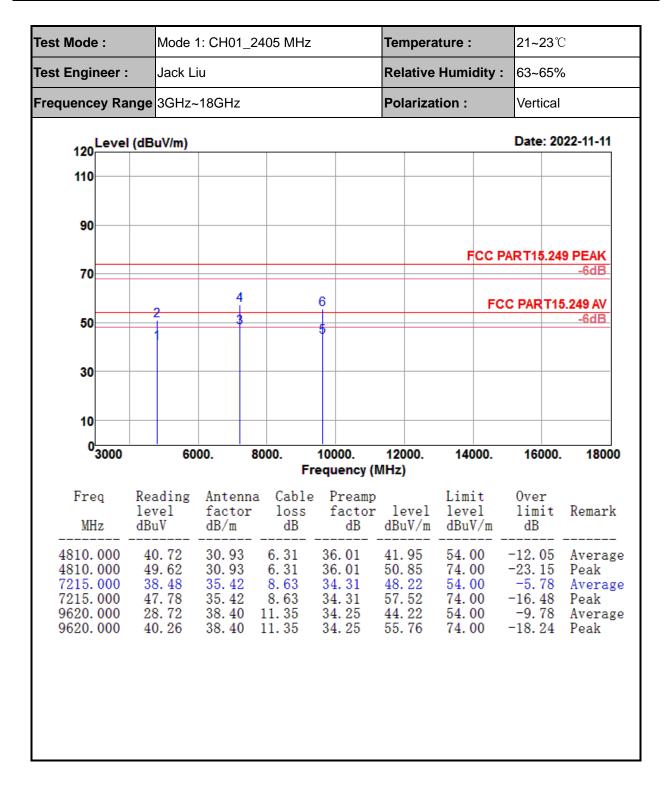
Test Mode :	Mode 1: CH01_2405 MHz	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



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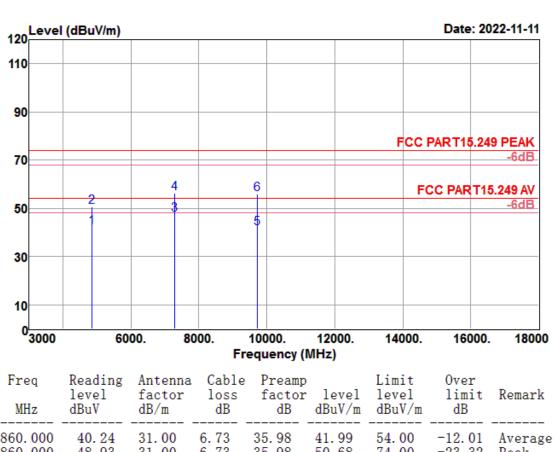


Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

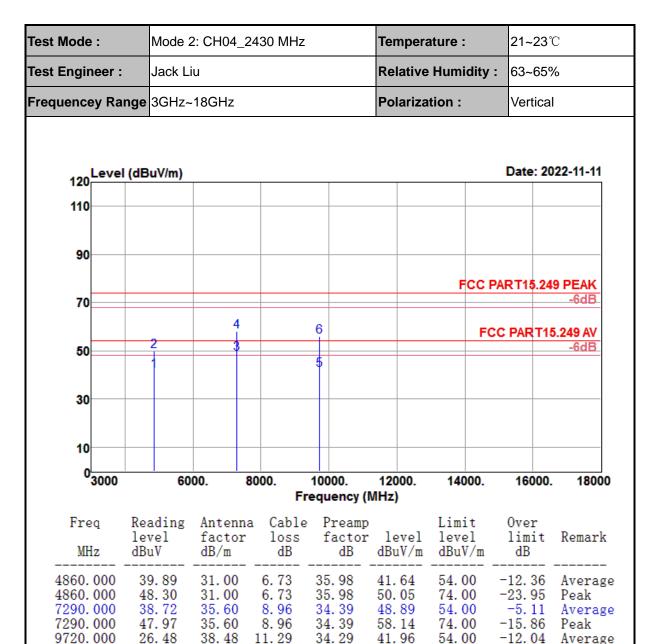
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Test Mode :	Mode 2: CH04_2430 MHz	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal







Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

34.29

56.01

74.00

40.53

38.48

11.29

9720.000

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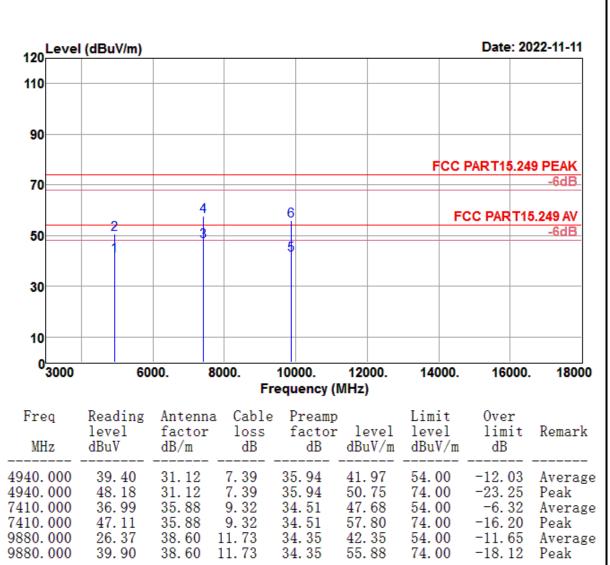
Average

Peak

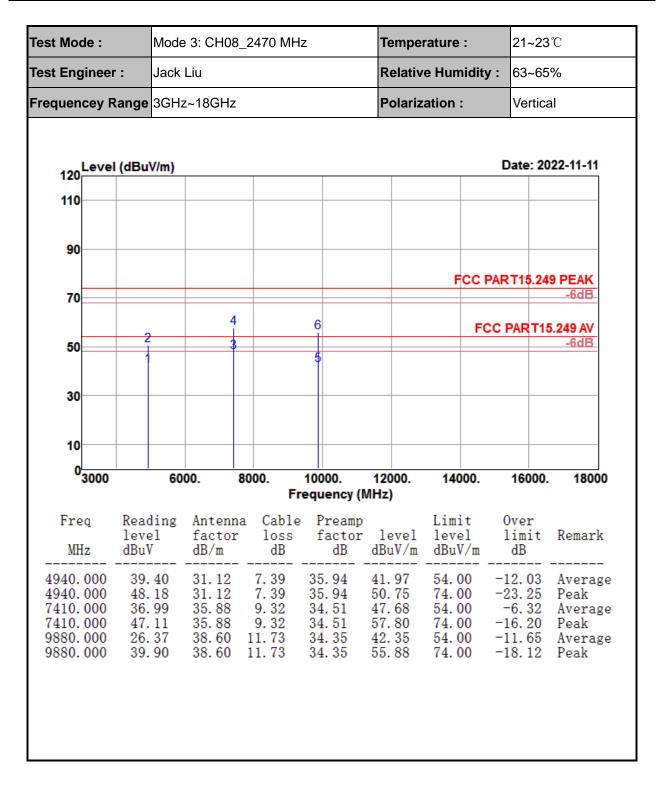
-17.99



Test Mode :	Mode 3: CH08_2470 MHz	Temperature :	21~23℃
Test Engineer :	Jack Liu	Relative Humidity :	63~65%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



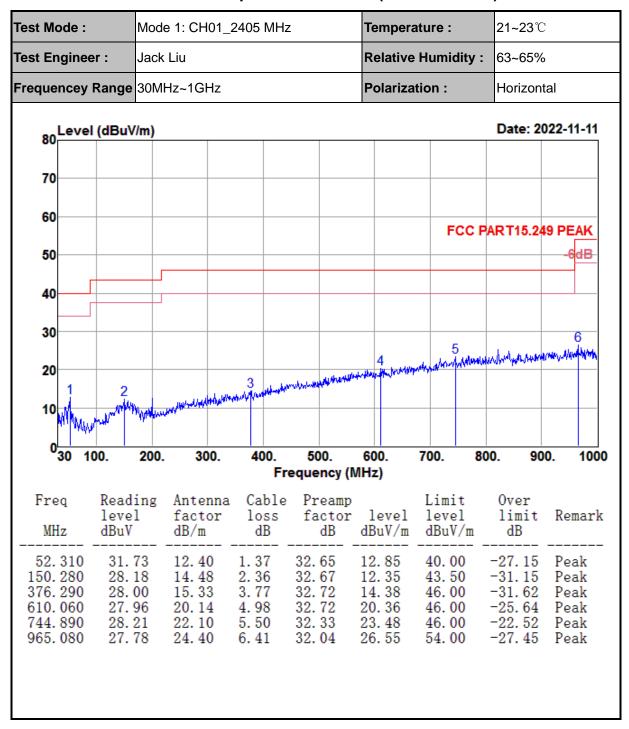




Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



4.2.7 Test Result of Radiated Spurious Emission (30MHz ~ 1GHz)



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Mode 1: CH01_2405 N			2405 MHz	<u>z</u>	Temperature :		21~23°	21~23℃		
Test Engineer : Jack Liu						Relative Humidity :		: 63~659	63~65%	
Frequencey Range 30MHz~1GHz					Polariza	ation :	Vertica	I		
80	Leve	(dBu	V/m)						Date: 2	022-11-11
70										
60										
-								FCC	PART15.2	49 PEAK
50										-6dB
40										
40			\dashv							
30								4	5	6
20						3	a suda. Proportio	Mary Company	and the many war	a property and the second
	1.		2	1 . 1 . 146 144	Mary Mary Land Market	1444 Mary Mary Mary Mary Mary Mary Mary Mary	Walter			
10	p ^{MA} lbook	John Mills	MANAMAN	Market Charles						
0	30 1	00.	200.	300.	400.	500.	600.	700.	B00. 90	00. 1000
	00 1		200.	000.		equency (N		700.	J00. J0	70. 100
Fre	q			Antenna		Preamp		Limit	0ver	
MH	Ιz	leve dBu\		factor dB/m	loss dB	factor dB	level dBuV/m	level dBuV/m	limit dB	Remark
	580					32. 65				
162. 474.		29. 28.		13. 66 17. 59	2. 47 4. 34	32. 67 32. 81	12. 82 18. 04	43. 50 46. 00	-30. 68 -27. 96	
729.	370	29.	53	21.79	5.44	32. 35	24.41	46.00	-21.59	Peak
833. 954.		29. 27.		22. 67 24. 40	6. 00 6. 36	32. 20 32. 05	25. 83 25. 74	46. 00 46. 00	-20. 17 -20. 26	
		211		21.10	5. 50	32.00	201	20.00	20.20	. Jun

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4.3 AC Conducted Emission Measurement

4.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)				
Frequency of emission (MHZ)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*}Decreases with the logarithm of the frequency.

4.3.2 Test Procedures

- 1.The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8.Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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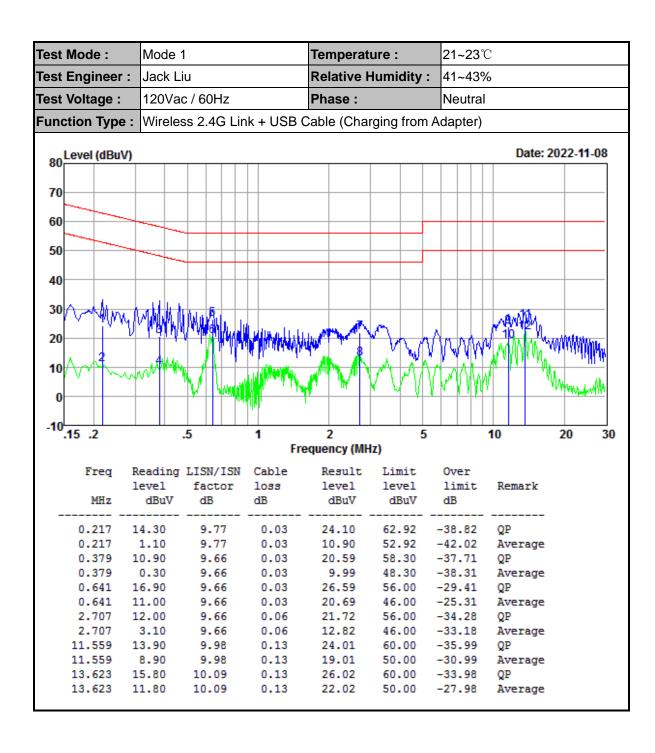


4.3.3 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Ter	nperature :	21~23	C		
Test Engineer :	Jack Liu	Rel	ative Humidit	y : 41~43	41~43%		
Test Voltage :	: Voltage: 120Vac / 60Hz			Phase: Line			
Function Type :	Wireless 2.4G Link	- USB Cable	e (Charging fro	m Adapter)		
80 Level (dBuV) 70 60 50 40 20	35 W M			W.M.M.	Date: 2	022-11-08	
0	Y W		VV		/ ////	Medionida	
-10 <mark>.15 .2</mark>	.5	1	2	5	10	20 30	
		Freque	ency (MHz)				
-	level factor 1	loss 1	Result Limit evel level dBuV dBuV	l limit	Remark		
0.204 0.352 0.352 0.379 0.379 0.637 0.637 1.106	16.70 9.52 4.80 9.52 11.30 9.56 6.00 9.56 10.60 9.58 4.70 9.58 19.80 9.73 17.20 9.73 7.60 9.57 5.30 9.57 12.40 10.05 3.50 10.05	0.03 1 0.03 2 0.03 1 0.03 2 0.03 1 0.03 2 0.03 2 0.03 2 0.09 1 0.09 1	6.25 63.45 4.35 53.45 20.89 58.93 5.59 48.93 20.21 58.30 4.31 48.30 29.56 56.00 20.56 46.00 20.56 46.00	39.10 -38.02 -33.32 -38.09 -33.99 -26.44 -19.04 -38.74 -31.04 -37.42	Average QP Average QP Average QP Average QP Average QP Average		

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4.4 Antenna Requirements

4.4.1 Standard Applicable

According to antenna requirement of §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded..

4.4.2 Antenna Connected Construction

An PCB antenna design is used.

4.4.3 Antenna Gain

The antenna peak gain of EUT is -1.2 dBi.

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5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070788	2021-12-28	2022-12-27	Conducted
Power Sensor	Keysight	U2021XA	MY56510025	2021-12-30	2022-12-29	Conducted
Power Sensor	Keysight	U2021XA	MY57030005	2021-12-30	2022-12-29	Conducted
Power Sensor	Keysight	U2021XA	MY56510018	2021-12-30	2022-12-29	Conducted
Power Sensor	Keysight	U2021XA	MY56480002	2021-12-30	2022-12-29	Conducted
Thermal Chamber	Howkin	UHL-34	19111801	2022-04-18	2023-04-17	Conducted
Base Station	R&S	CMW 270	101231	2021-12-28	2022-12-27	Conducted
Signal Generator (Interferer)	Keysight	N5182B	MY56200384	2021-12-28	2022-12-27	Conducted
Signal Generator (Blocker)	Keysight	N5171B	MY56200661	2021-12-28	2022-12-27	Conducted

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV 40	101433	2021-12-29	2022-12-28	Radiation
Amplifier	Sonoma	310	363917	2021-12-29	2022-12-28	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2021-12-30	2022-12-29	Radiation
Amplifier	Narda	TTA1840-35-HG	2034380	2022-04-27	2023-04-26	Radiation
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	2020-02-14	2023-02-13	Radiation
Broadband Antenna	Schwarzbeck	VULB 9168	9168-757	2020-09-27	2023-09-26	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	1677	2020-02-14	2023-02-13	Radiation
Horn Antenna	COM-POWER	AH-1840	101117	2021-06-05	2024-06-04	Radiation
Test Software	Auidx	E3	6.111221a	N/A	N/A	Radiation
Filter	Micro-Tronics	BRM 50702	G266	N/A	N/A	Radiation
Communication Tester	R&S	CMW270	101231	2021/12/28	2022/12/27	Radiation

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Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
LISN	R&S	ENV216	102125	2021-12-29	2022-12-28	Conducted
LISN	R&S	ENV432	101327	2021-12-29	2022-12-28	Conducted
EMI Test Receiver	R&S	ESR3	102143	2021-12-30	2022-12-29	Conducted
EMI Test Software	Audix	E3	N/A	N/A	N/A	Conducted
Communication Tester	R&S	CMW270	101231	2021/12/28	2022/12/27	Radiation

N/A: No Calibration Required

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6 Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY	
Conducted emissions	9kHz~30MHz	3.29dB	
	30MHz ~ 1GHz	5.40dB	
Radiated emission	1GHz ~ 18GHz	5.03dB	
	18GHz ~ 40GHz	5.21dB	

MEASUREMENT	UNCERTAINTY
Occupied Channel Bandwidth	±57.212Hz
RF output power, conducted	±1.04dB
Power density, conducted	±2.31dB
Emissions, conducted	±2.18dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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Appendix A. Setup Photographs



Fig. 1 Radiated emission setup photo(Below 30MHz)



Fig. 2 Radiated emission setup photo(30MHz-1GHz)





Fig. 3 Radiated emission setup photo(Above 1GHz)



Fig. 4 Power line conducted emission setup photo

-----End of the report---------------------End of the report---------------------