Dongguan Nore Testing Center Co., Ltd. Report No.: NTC2008216FV00

FCC ID: 2AGLG-TM197G



RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant/Manufacturer : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Address : 262 shidan Rd.,3rd industrial Area, Juzhou,Shijie Town, Dongguan city

China

Factory : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Address : 262 shidan Rd.,3rd industrial Area, Juzhou,Shijie Town, Dongguan city

China

E.U.T. : Mouse

Brand Name : N/A

Model No. : TM197G

FCC ID : 2AGLG-TM197G

Measurement Standard : FCC PART 15.249

Date of Receiver : August 18, 2020

Date of Test : August 19, 2020 to September 28, 2020

Date of Report : September 28, 2020

This Test Report is Issued Under the Authority of :

Prepared by

Alina Guo / Engineer

Approved & Authorized Signer

Iori Fan Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

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Revision History of This Test Report

Report Number	Description	Issued Date
NTC2008216FV00	Initial Issue	2020-09-28

Report No.: NTC2008216FV00 FCC ID: 2AGLG-TM197G



1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Product Name : Mouse

Main Model Number : TM197G

Additional Model

Number

: N/A

Brand Name : N/A

Power Supply : DC 1.5V from AA battery

Test Voltage : DC 1.5V from AA battery

Model Difference

Description

: N/A

Hardware Version : A01

Software Version : A01

Serial number : DM200400001

Note : N/A

Remark : N/A

Technical Specification:

2.4G Function:

Frequency Range : 2408~2474MHz

Modulation Type : GFSK

Number of Channel : 34

Channel Space : 2MHz

Antenna Type : PCB

Antenna Gain : -6.35dBi (Declaration by manufacturer)

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Channel List:

Channel	Frequency MHz	Channel	Frequency MHz	Channel	Frequency MHz
1	2408	13	2432	25	2456
2	2410	14	2434	26	2458
3	2412	15	2436	27	2460
4	2414	16	2438	28	2462
5	2416	17	2440	29	2464
6	2418	18	2442	30	2466
7	2420	19	2444	31	2468
8	2422	20	2446	32	2470
9	2424	21	2448	33	2472
10	2426	22	2450	34	2474
11	2428	23	2452		
12	2430	24	2454		

Note: The Lowest, middle, and the Highest frequency of channel were selected to perform the test. The frequency selected see below:

The Lowest frequency: 2408MHz The middle frequency: 2440MHz The Highest frequency: 2474MHz

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2AGLG-TM197G** filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rule.

1.3 Test Methodology

Rradiated emission measurements performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

N/A

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1.6 Test Facility and Location

Site Description

EMC Lab : Listed by CNAS, August 13, 2018

The certificate is valid until August 13, 2024

The Laboratory has been assessed and proved to

be in compliance with CNAS/CL01

The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017

The certificate is valid until December 31, 2021 The Laboratory has been assessed and proved to

be in compliance with ISO17025

The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017
The Designation Number is CN1214
Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is

46405-9743A

Name of Firm : Dongguan Nore Testing Center Co., Ltd.

(Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science and Technology

park, Hongtu road, Nancheng district, Dongguan

city, Guangdong province, China

1.7 Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

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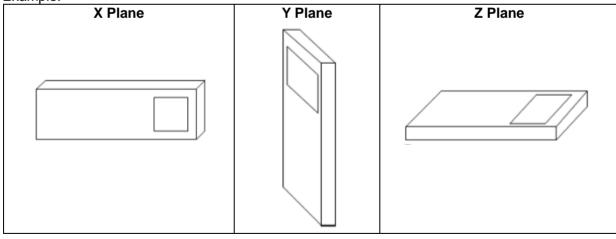
1.8 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result		
§15.207(a)	AC Power Conducted Emission	±1.06dB	Not Applicable		
§15.249(a)/ 15.209	Radiated Emissions	Below 1GHz: ±4.60 dB Above 1GHz: ±5.02 dB	Compliant		
§15.249(d)/ 15.205	Band Edge	±1.70dB	Compliant		
§15.215(c)	20dB Bandwidth	±1.42 x10-4%	Compliant		
§15.203	Antenna Requirement	±0.60dB	Compliant		

Note: 1. The EUT has been tested as an independent unit. And Continual transmitting in maximum power (The new battery be used during test)

- 2. Due to this EUT is powered by battery only, the AC Power Conducted Emission is not applicable.
- 3. The EUT powered by battery and operating multiple positions, so the EUT shall be performed two or three orthogonal planes. The worst plane is Z.

Example:



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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 Special Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

The EUT has been tested under operating condition. The Lowest, middle and highest frequencies were chosen for testing.

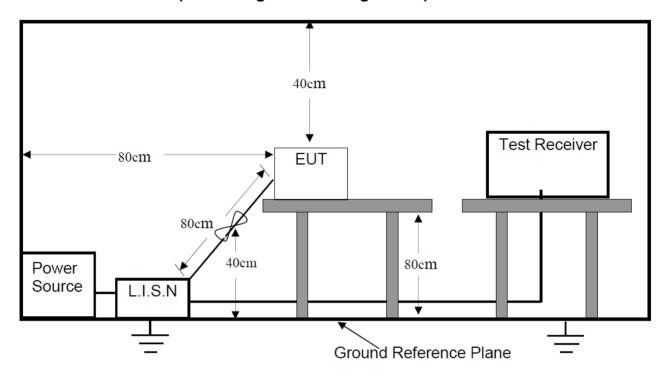
2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.



3. Conducted Emissions Test

3.1 Test SET-UP (Block Diagram of Configuration)



3.2 Test Condition

Test Requirement: FCC Part 15.207

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

Operation Mode: TX

3.3 Measurement Results

Not Applicable.

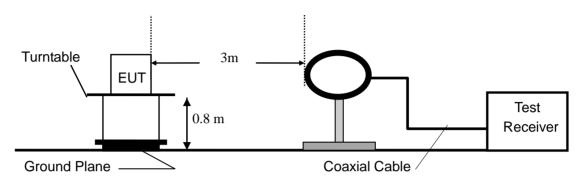
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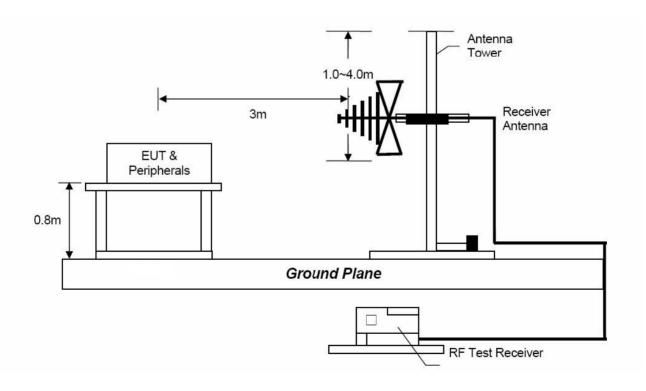


4. Radiated Emission Test

4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz

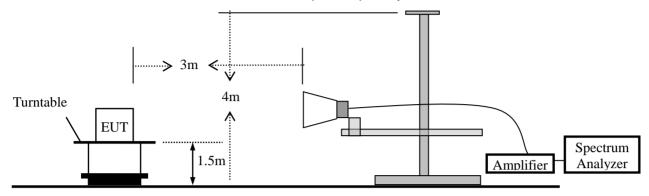




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4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



4.2 Measurement Procedure

- a. Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:
 - The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

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During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
Above 1000	Average	1 MHz	10 Hz

4.3 Limit

Frequency range	Distance Meters	Field Strengths	Limit (15.209)	
MHz		μV/m		
0.009 ~ 0.490	300	2400/F	(kHz)	
0.490 ~ 1.705	30	24000/	F(kHz)	
1.705 ~ 30	30	30)	
30 ~ 88	3	10	0	
88 ~ 216	3	15	0	
216 ~ 960	3	200		
Above 960	3	50	0	
Frequency range	Distance Meters	Field Strengths	Limit (15.249)	
MHz		mV/m	μV/m	
		(Field strength of	(Field strength of	
		fundamental)	Harmonics)	
902 ~ 928	3	50	500	
2400 ~ 2483.5	3	50 500		
5725 ~ 5875	3	50	500	
24000 ~ 2425000	3	250	2500	

Remark : (1) Emission level (dB) μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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4.4 Measurement Results

Please refer to following the test plots of the worst case: GFSK(High channel).

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26

47 %

Temperature:

Humidity:



Dongguan NTC Co., Ltd.
Tel:+86-769-22022444 Fax:+86-769-22022799

Web: <u>Http://www.ntc-c.com</u>

Radiated Emission Measurement File:TM197G Data :#86 Date: 2020/8/26 Time: 20:57:40 80.0 dBuV/m 70 60 FCC Part 15_ClassB_3M Margin -6 dB 50 40 30 20 10 0.0 709.00 1000.00 MHz 30.000 127.00 224.00 321.00 418.00 515.00 612.00 806.00

Limit: FCC Part 15_ClassB_3M

EUT: Mouse M/N: TM197G Mode: TX Note:

Site

Polarization: **Horizontal**Power: DC1.5V

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector
1		57.1600	32.15	-13.79	18.36	40.00	-21.64	QP
2		623.6400	32.51	-5.56	26.95	46.00	-19.05	QP
3		730.3400	32.34	-3.22	29.12	46.00	-16.88	QP
4		844.8000	33.25	-2.18	31.07	46.00	-14.93	QP
5		918.5200	32.46	-1.37	31.09	46.00	-14.91	QP
6	*	956.3500	32.32	-0.78	31.54	46.00	-14.46	QP

Report No.: NTC2008216FV00 FCC ID: 2AGLG-TM197G



47 %



Dongguan NTC Co., Ltd. Tel:+86-769-22022444 Fax:+86-769-22022799

Web: Http://www.ntc-c.com

Radiated Emission Measurement File:TM197G Data:#87 Date: 2020/8/26 Time: 21:04:54 80.0 dBuV/m 70 60 FCC Part 15_ClassB_3M Margin -6 dB 50 40 30 20 10 0.0 127.00 321.00 418.00 612.00 709.00 806.00 30.000 224.00 515.00 1000.00 MHz Temperature:

Site Limit: FCC Part 15_ClassB_3M

EUT: Mouse M/N: TM197G Mode: TX Note:

Polarization: Vertical DC1.5V Humidity: Power:

Distance: 3m

No. N	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
1		53.2800	27.38	-7.47	19.91	40.00	-20.09	QP	
2		847.7100	25.84	4.76	30.60	46.00	-15.40	QP	
3		899.1200	25.69	4.96	30.65	46.00	-15.35	QP	
4 '	*	936.9500	25.70	5.02	30.72	46.00	-15.28	QP	
5		974.7800	26.41	5.22	31.63	54.00	-22.37	QP	
6		999.0300	25.21	5.47	30.68	54.00	-23.32	QP	

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Frequency Range: 1-25GHz Test Date: August 26, 2020

Test Result: PASS Temperature : 21 $^{\circ}$ C Measured Distance: 3m Humidity : 55 $^{\circ}$

Test By: Lee

Freq.	Ant.Pol. (H/V)		ding dBuV)	Factor (dB/m)	Emissio (dBu)		Limit (dBu\			rgin B)			
(1711 12)	(11/7)	PK	AV	(ub/iii)	PK	AV	PK	AV	PK	AV			
	Operation Mode: TX Mode (Low)												
2408	V	88.55	86.29	3.23	91.78	89.52	114.00	94.00	-22.22	-4.48			
4816	V	61.90	43.04	4.61	66.51	47.65	74.00	54.00	-7.49	-6.35			
7224	V	45.68	30.93	8.15	53.83	39.08	74.00	54.00	-20.17	-14.92			
2408	Н	83.05	81.46	3.23	86.28	84.69	114.00	94.00	-27.72	-9.31			
4816	Н	64.14	43.86	4.61	68.75	48.47	74.00	54.00	-5.25	-5.53			
7224	Н	46.05	31.17	8.15	54.20	39.32	74.00	54.00	-19.80	-14.68			
			Оре	ration M	ode: TX I	Mode (M	id)						
2440	V	83.22	81.13	3.23	86.45	84.36	114.00	94.00	-27.55	-9.64			
4880	V	61.65	43.85	4.71	66.36	48.56	74.00	54.00	-7.64	-5.44			
7320	V	45.93	31.47	8.22	54.15	39.69	74.00	54.00	-19.85	-14.31			
2440	Н	88.29	86.40	3.23	91.52	89.63	114.00	94.00	-22.48	-4.37			
4880	Н	64.03	44.90	4.71	68.74	49.61	74.00	54.00	-5.26	-4.39			
7320	Н	46.49	32.00	8.22	54.71	40.22	74.00	54.00	-19.29	-13.78			
			Ope	ration Mo	ode: TX N	lode (Hi	gh)						
2474	V	83.40	81.22	3.26	86.66	84.48	114.00	94.00	-27.34	-9.52			
4948	V	61.54	43.74	4.82	66.36	48.56	74.00	54.00	-7.64	-5.44			
7422	V	45.86	31.40	8.29	54.15	39.69	74.00	54.00	-19.85	-14.31			
2474	Н	88.53	86.36	3.26	91.79	89.62	114.00	94.00	-22.21	-4.39			
4948	Н	63.92	44.79	4.82	68.74	49.61	74.00	54.00	-5.26	-4.39			
7422	Н	46.42	31.93	8.29	54.71	40.22	74.00	54.00	-19.29	-13.78			

Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level + Factor
- (3) Factor= Antenna Gain + Cable Loss Amplifier Gain
- (4) Data of measurement within this frequency range shown " ---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
- (5) Horn antenna used for the emission over 1000MHz.

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5. 20dB Bandwidth

5.1 Measurement Procedure

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

5.2 Test SET-UP (Block Diagram of Configuration)

FUT	Spectrum Analyzer
	Opectium Analyzei

5.3 Measurement Results

Refer to attached data chart.

RBW: 100KHz VBW: 300KHz Spectrum Detector: PK Temperature: $22 \degree$ Test By: Lee Humidity: 54 %

Test Result: PASS Test Date: August 25, 2020

Channel frequency (MHz)	20dB Down BW(kHz)				
2408	2092				
2440	2084				
2474	2079				

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Lowest Channel



Middle Channel



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Highest Channel



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6. Band Edge

6.1 Measurement Procedure

Same as Radiated Emission Test.

6.2 Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.3 Measurement Results

Operation Mode: TX Mode Test Date: August 15, 2020

Temperature : 21 $^{\circ}$ C Humidity : 55 $^{\circ}$ C Test Result: PASS Test By: Lee

Measured Distance: 3m

Freq.	Ant.Pol. (H/V)	Rea Level(ding dBuV)	Factor (dB/m)	Emissio (dBu\			t 3m V/m)		rgin B)
(MHz)		PK	AV	(ub/III)	PK	AV	PK	AV	PK	AV
2390.000	Н	56.92	46.10	0.09	57.01	46.19	74.00	54.00	-16.99	-7.81
2390.000	V	57.16	46.04	0.09	57.25	46.13	74.00	54.00	-16.75	-7.87
2483.500	Н	55.67	43.65	0.34	56.01	43.99	74.00	54.00	-17.99	-10.01
2483.500	V	54.05	41.32	0.34	54.39	41.66	74.00	54.00	-19.61	-12.34

Note: (1) Emission Level= Reading Level + Factor

(2) Factor= Antenna Gain + Cable Loss - Amplifier Gain

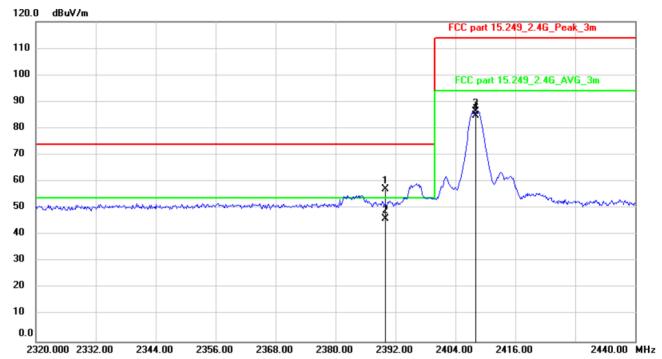
(3) Horn antenna used for the emission over 1000MHz.

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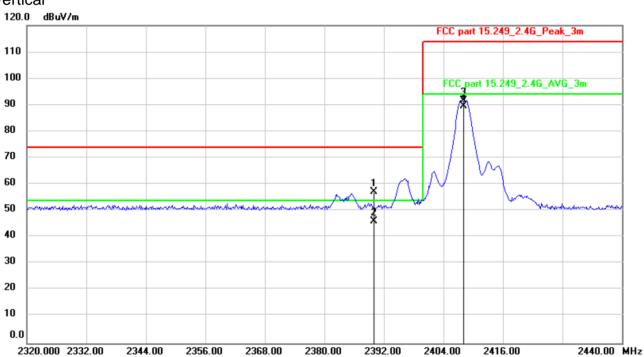


Low channel

Horizontal



Vertical

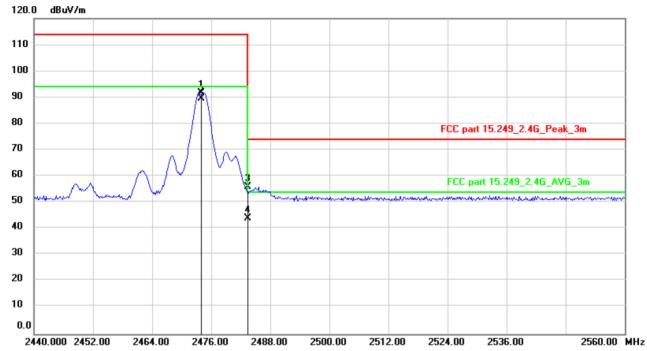


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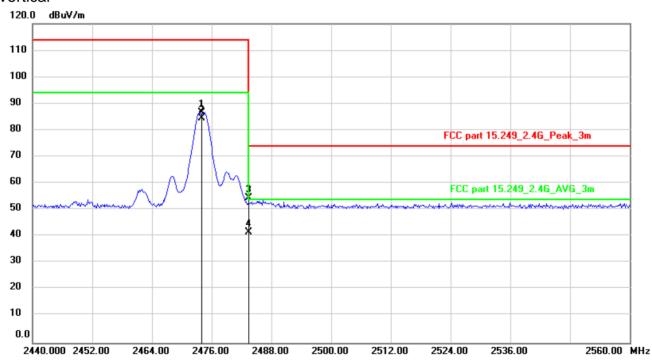


High channel





Vertical



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7. Antenna requirement

7.1 Measurement Procedure

According to of FCC part 15C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.2 Measurement Results

The antenna is PCB antenna and no consideration of replacement, and the best case gain of the antenna is -6.35dBi. So, the antenna is consider meet the requirement.

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8. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2020	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2020	1 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2020	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2020	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101094	Mar. 13, 2020	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 22, 2019	2 Year
7.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 13, 2020	1 Year
8.	Communication Tester	Rohde & Schwarz	CMW500	149004	Mar. 13, 2020	1 Year
9.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2020	1 Year
10.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2020	1 Year
11.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2020	1 Year
12.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2020	1 Year
13	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 14, 2020	1 Year
14	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2020	1 Year
15.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	893606/014	Mar. 13, 2020	1 Year
16.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2020	1 Year
17.	Temperature & Humidity Chamber	REMAFEE	SYHR225L	N/A	Mar. 13, 2020	1 Year
18.	DC Source	Maynuo	MY8811	N/A	Mar. 13, 2020	1 Year
19.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
20.	Chamber	SAEMC	9*7*7m	N/A	Jun. 20, 2019	2 Year
21.	Test Software	EZ	EZ_EMC	N/A	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.