华夏准测

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Test Report

CQASZ20210500026EX-01 Report No.:

Dongguan Lingjie Electronics & Technology Co., Ltd Applicant:

Address of Applicant: Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan

Community, Xiegang Town, Dongguan City, Guangdong Province, 523590,

P.R.C

Dongguan Lingjie Electronics & Technology Co., Ltd Manufacturer:

Address of Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590, Manufacturer:

P.R.C

Equipment Under Test (EUT):

Product: Wireless Mouse

All Model No.: **M30T Test Model No.: M30T Brand Name:** N/A

FCC ID: 2ANBU-M30T

Standards: 47 CFR Part 15, Subpart C Section 15.247

Date of Test: Apr. 23, 2021 to May 10, 2021

Date of Issue: May 10, 2021

Test Result: PASS*

Tested By:

lewis 2hou

(Lewis Zhou)

Reviewed By:

Timo Lei) Sheek, Luo Approved By:

(Sheek Luo)



Report No.: CQASZ20210500026EX-01

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210500026EX-01	Rev.01	Initial report	2020-05-10



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	N/A
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

N/A: Not Applicable



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4 General Information

4.1 Client Information

Applicant:	Dongguan Lingjie Electronics & Technology Co., Ltd	
Address of Applicant:	Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590, P.R.C	
Manufacturer:	Dongguan Lingjie Electronics & Technology Co., Ltd	
Address of Manufacturer:	Building A(Floor 1-4) and B(Floor 1-5), No. 16 Zhenxing North Road, Taiyuan Community, Xiegang Town, Dongguan City, Guangdong Province, 523590, P.R.C	

4.2 General Description of EUT

Product Name:	Wireless Mouse
Test Model No.:	M30T
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.8
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	16
Fixed frequency mode	Combine buttons to enter engineering mode
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	battery: 1.5V



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Operation Frequency each of channel							
Channel	Frequency	Frequency Channel Frequency					
0	2402	8	2441				
1	2407	9	2445				
2	2414	10	2453				
3	2419	11	2459				
4	2422	12	2463				
5	2426	13	2466				
6	2436	14	2473				
7	2439	15	2480				

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:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH8)	2441MHz
The highest channel (CH15)	2480MHz



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4.3 Test Environment

Operating Environment	:
Radiated Emission	
Temperature:	25.1 °C
Humidity:	53 % RH
Atmospheric Pressure:	1001mbar
RF item test (RF test ro	oom)
Temperature:	27.5 °C
Humidity:	59 % RH
Atmospheric Pressure:	1001mbar
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.
	Note: In the process of transmitting of EUT, the duty cycle >98%.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	er Model No. Remark		FCC certification	
PC	Lenovo Thinkad E450C		Provide by lab	FCC ID	
AC/DC Aapter	Lenovo	ADLX65NLC3A	Provide by lab	FCC SDOC	





4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.6 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Deviation from Standards

None.

4.9 Other Information Requested by the Customer

None.





4.10 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/09/22	2021/09/21
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/24	2021/10/23
Spectrum analyzer	keysight	N9020A	CQA-105	2020/10/24	2021/10/23
Preamplifier	MITEQ	AFS4-00010300-18-10P-	CQA-035	2020/09/22	2021/09/21
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2020/10/29	2020/10/28
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2020/10/24	2021/10/23
Bilog Antenna	R&S	HL562	CQA-011	2020/09/22	2021/09/21
Horn Antenna	R&S	HF906	CQA-012	2020/09/22	2021/09/21
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/09/22	2021/09/21
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2020/09/22	2021/09/21
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2020/09/22	2021/09/21
Antenna Connector	CQA	RFC-01	CQA-080	2020/09/22	2021/09/21
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/09/22	2021/09/21
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/09/22	2021/09/21
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/09/22	2021/09/21
LISN	R&S	ENV216	CQA-003	2020/11/01	2021/10/30
Coaxial cable	CQA	N/A	CQA-C009	2020/09/22	2021/09/21

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.



5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

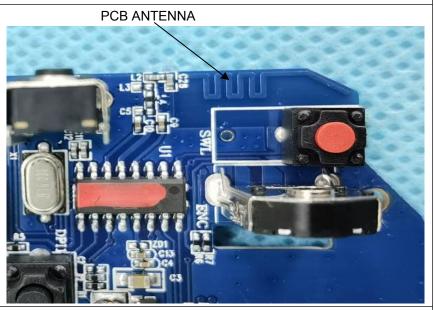
15.203 requirement:

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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is integral antenna. The best case gain of the antenna is 0dBi.





5.2 Conducted Emissions

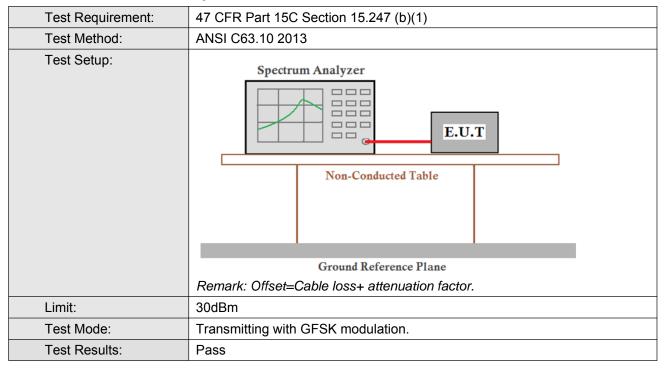
5.2 Conducted Emis	SSIONS					
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Eraguaney rango (MHz)					
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	of the frequency.				
Test Procedure:	1) The mains terminal disturba	•				
	 2) The EUT was connected to Stabilization Network) whi power cables of all other which was bonded to the for the unit being measure multiple power cables to a exceeded. 3) The tabletop EUT was pla 	ch provides a 50Ω/50 units of the EUT were ground reference planed. A multiple socket a single LISN provided	µH + 5Ω linear im e connected to a se e in the same way outlet strip was us d the rating of the	pedance. The econd LISN 2, as the LISN 1 ed to connect LISN was not		
	reference plane. And for fl horizontal ground reference	oor-standing arrangen		•		
	 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) 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 con	ducted measurement.				
Test Setup:	Shielding Room EUT AE AC Mains LISN1		est Receiver			
Test Mode:	N/A					
Test Results:	N/A					
i est i tesuits.	11/7					

Not application to this device



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5.3 Conducted Peak Output Power

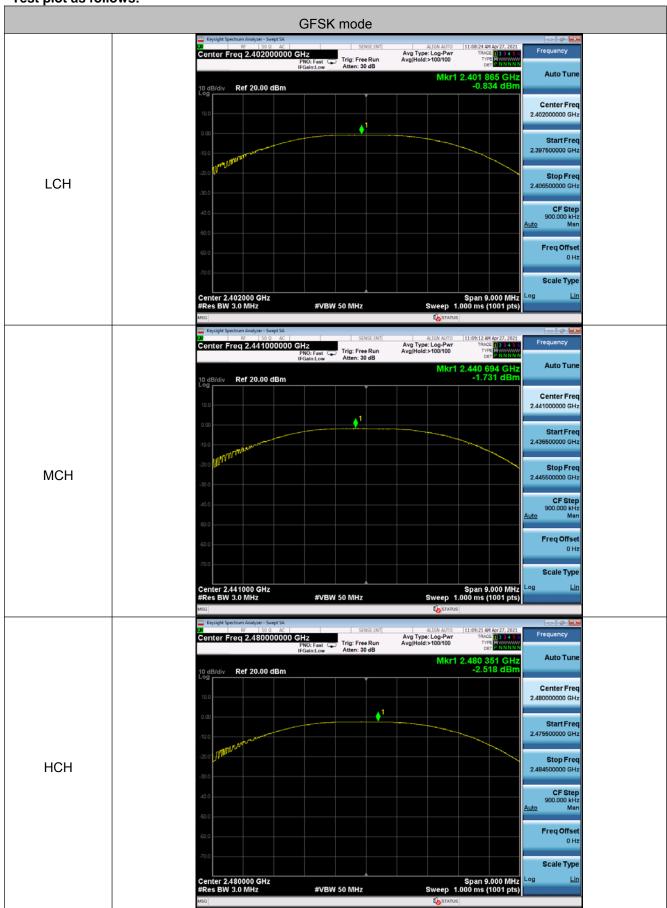


Measurement Data

GFSK mode (1Mbps)							
Test channel Peak Output Power (dBm) Limit (dBm) Result							
Lowest	-0.834	30.00	Pass				
Middle	-1.731	30.00	Pass				
Highest	-2.518	30.00	Pass				



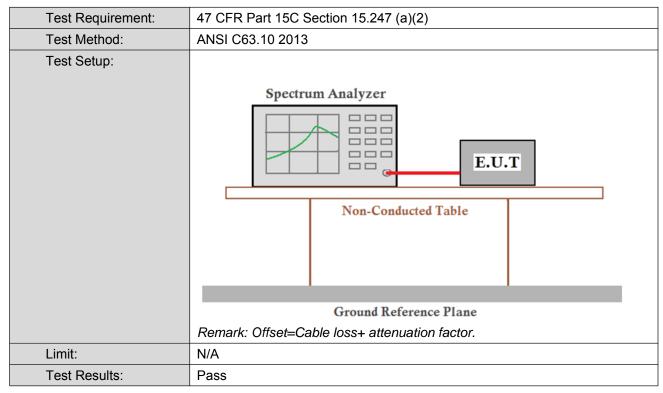
Test plot as follows:







5.4 6dB Occupy Bandwidth

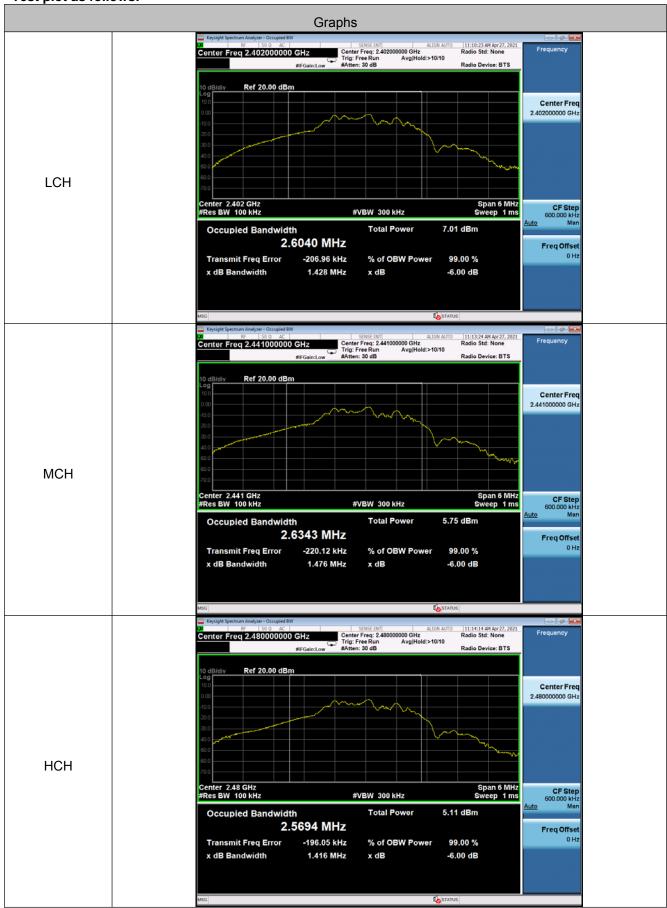


Measurement Data

GFSK mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	1.428	N/A	Pass				
Middle	1.476	N/A	Pass				
Highest	1.416	N/A	Pass				



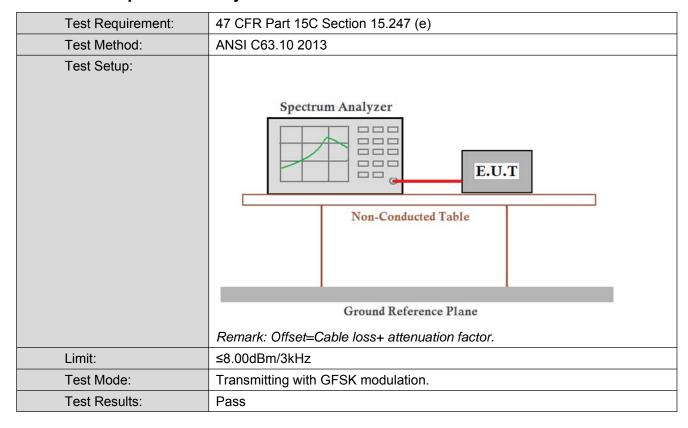
Test plot as follows:





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5.5 Power Spectral Density

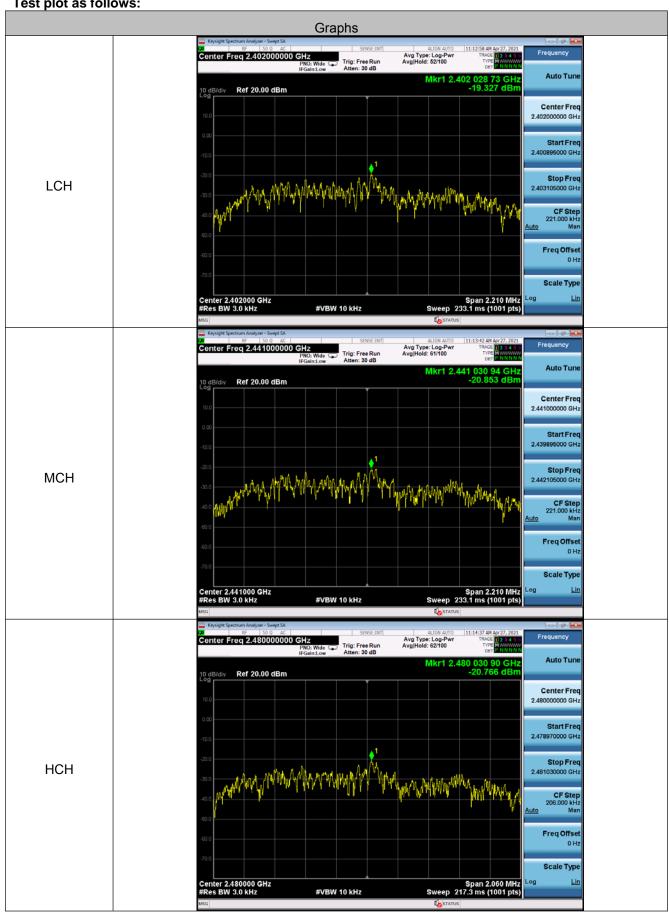


Measurement Data

modeum om om out								
GFSK mode								
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-19.327	≤8.00	Pass					
Middle	-20.853	≤8.00	Pass					
Highest	-20.766	≤8.00	Pass					



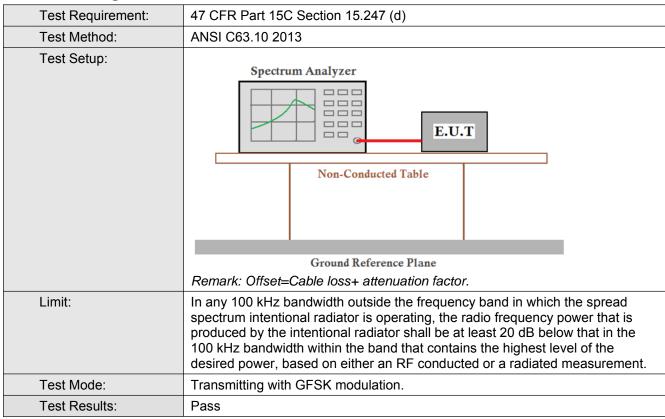
Test plot as follows:







5.6 Band-edge for RF Conducted Emissions



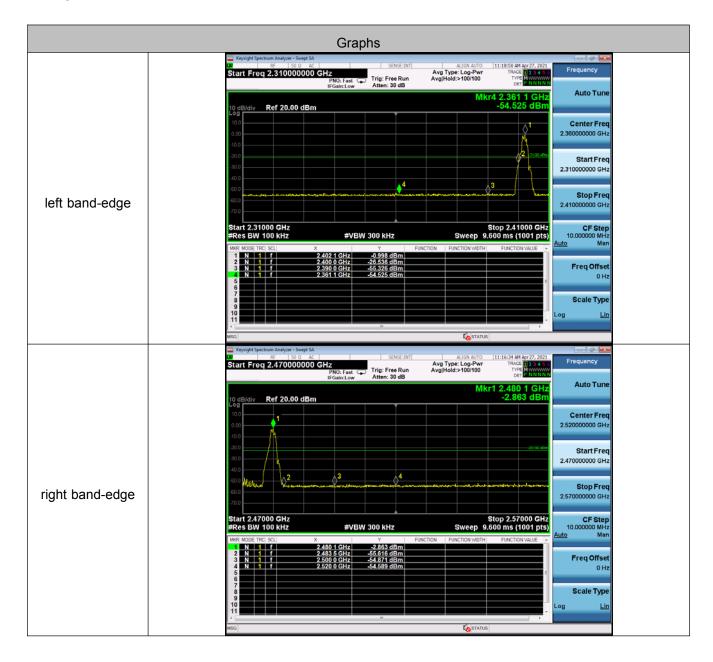
left band-edge							
Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result				
2390	-55.326	-21.00	Pass				
2400	-26.536	-21.00	Pass				

right band-edge			
Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result
2483.5	-55.616	-22.86	Pass
2500	-54.871	-22.86	Pass





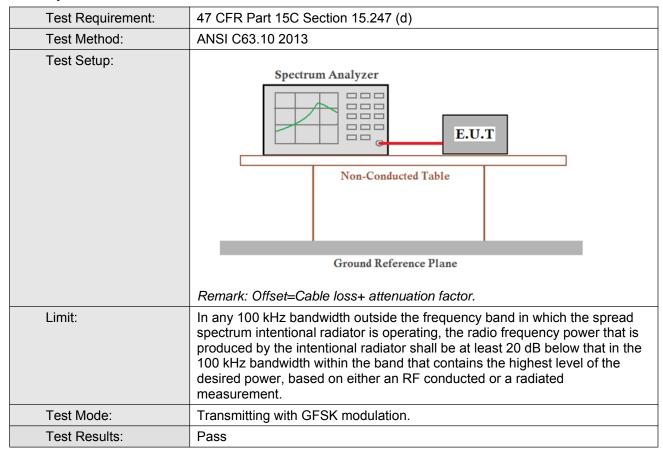
Test plot as follows:







5.7 Spurious RF Conducted Emissions





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Test plot as follows:









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Remark:



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Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



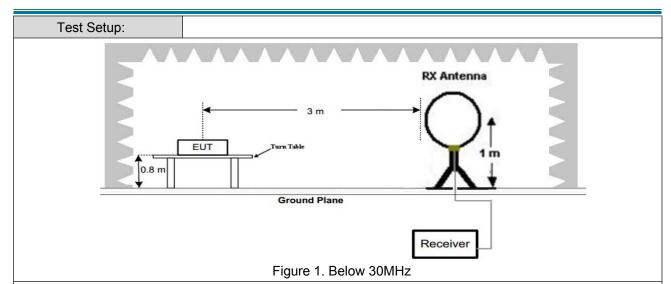
Report No.: CQASZ20210500026EX-01

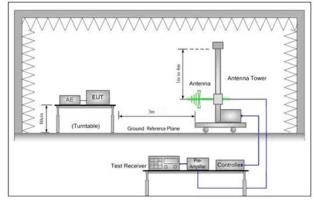
5.8 Radiated Spurious Emission & Restricted bands

5.8.1 Spurious Emissions										
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance	: 3n	n (Semi-Anech	noic Cham	ber)					
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark				
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak				
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz	Average				
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z 30kHz	Quasi-peak				
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak				
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average				
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak				
	30MHz-1GHz		Quasi-peak	100 kH	Iz 300kHz	Quasi-peak				
	Al 4011-		Peak	1MHz	3MHz	Peak				
	Above 1GHz		Peak	1MHz	10Hz	Average				
Limit:	Frequency	l	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30				
	1.705MHz-30MHz		30	-	-	30				
	30MHz-88MHz		100	40.0	Quasi-peak	3				
	88MHz-216MHz		150	43.5	Quasi-peak	3				
	216MHz-960MHz		200	46.0	Quasi-peak	3				
	960MHz-1GHz 500		54.0	Quasi-peak	3					
	Above 1GHz	500	54.0	Average	3					
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20c quip	dB above the oment under t	maximum est. This p	permitted ave	erage emission				



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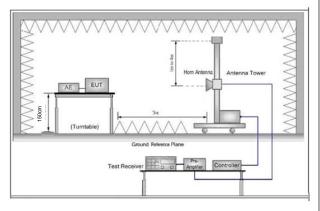


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

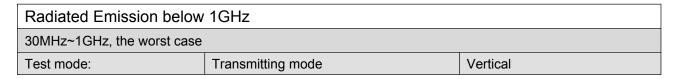
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. 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.

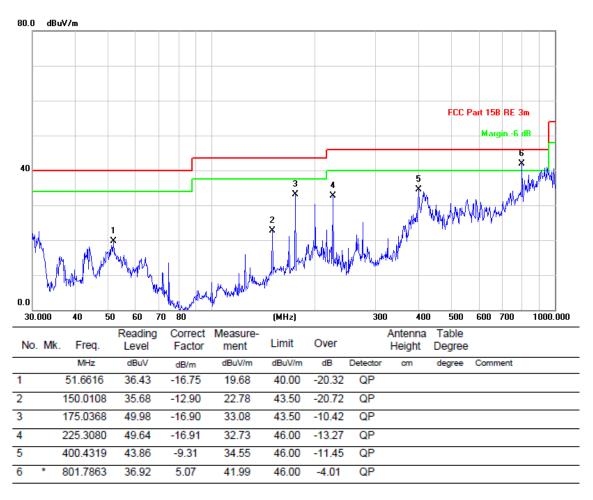
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the



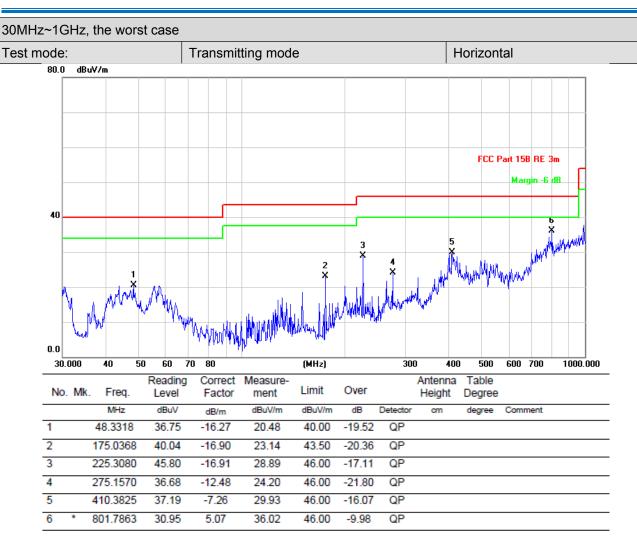
	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	 f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test	Transmitting with GFSK modulation.
Mode:	Transmitting mode, Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	For below 1GHz part, through pre-scan, the worst case is the lowest
	channel.
	Only the worst case is recorded in the report.
Test Results:	Pass















Transmitter Emission above 1GHz

Worse case m	ode:	GFSK		Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
2390	57.84	-9.2	48.64	74	-25.36	Peak	н
2400	60.01	-9.39	50.62	74	-23.38	Peak	Н
4804	54.70	-4.33	50.37	74	-23.63	Peak	Н
7206	54.82	1.01	55.83	74	-18.17	Peak	Н
2390	60.02	-9.2	50.82	74	-23.18	Peak	V
2400	60.60	-9.39	51.21	74	-22.79	Peak	V
4804	55.37	-4.33	51.04	74	-22.96	Peak	V
7206	54.04	1.01	55.05	74	-18.95	Peak	V

Worse case m	ode:	GFSK		Test chann	el:	Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4883.6	55.07	-4.11	50.96	74	-23.04	Peak	Н
7325.4	53.41	1.51	54.92	74	-19.08	Peak	Н
4883.6	55.06	-4.11	50.95	74	-23.05	Peak	V
7325.4	52.24	1.51	53.75	74	-20.25	Peak	V

Worse case m	ode:	GFSK		Test chann	t channel: Highest		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.5	57.57	-9.29	48.28	74	-25.72	Peak	Н
4959.6	60.70	-4.04	56.66	74	-17.34	Peak	Н
7439.4	51.83	1.57	53.40	74	-20.60	Peak	Н
2483.5	57.55	-9.29	48.26	74	-25.74	Peak	V
4959.6	60.50	-4.04	56.46	74	-17.54	Peak	V
7439.4	53.57	1.57	55.14	74	-18.86	Peak	V

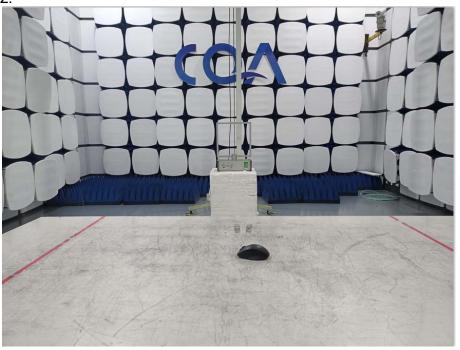
Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

6 Photographs - EUT Test Setup

Please see test setup file

Radiated Emission 9kHz~30MHz:



30MHz~1GHz:







Above 1GHz:



7 Photographs - EUT Constructional Details































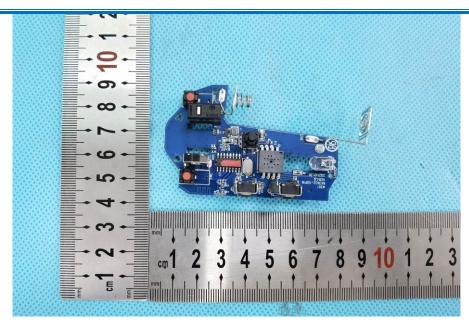


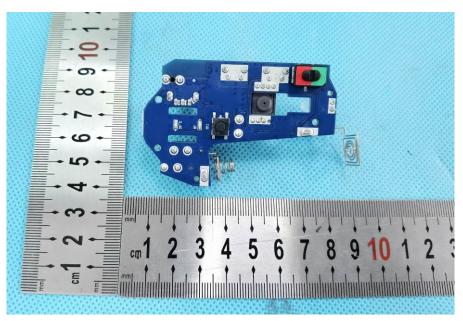






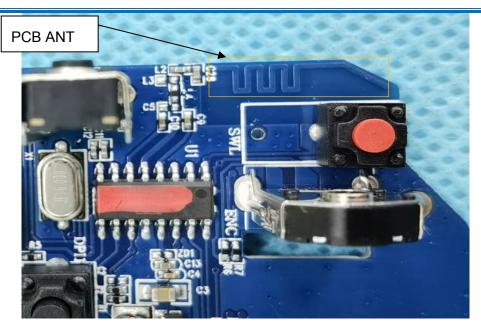








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The End