



# **FCC RADIO TEST REPORT**

Applicant.....: Shunde Advante Electron Ltd.

Address...... : North Second XinXi Road, LunJiao Industrial Avenue, LunJiao, Shunde,

Foshan, Guangdong, China

Manufacturer.....: Shunde Advante Electron Ltd.

Address...... : North Second XinXi Road, LunJiao Industrial Avenue, LunJiao, Shunde,

Foshan, Guangdong, China

Factory .....: Shunde Advante Electron Ltd.

Address ......: North Second XinXi Road, LunJiao Industrial Avenue, LunJiao, Shunde,

Foshan, Guangdong, China

Product Name.....: Wireless Door Chime

Brand Name.....: N/A

FCC ID..... : Q2I202203M

Measurement Standard.......: 47 CFR FCC Part 15, Subpart C (Section 15.231)

Receipt Date of Samples......: April 25, 2022

Date of Tested...... : April 27, 2022 to June 07, 2022

Date of Report.....: June 13, 2022

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.

Prepared by

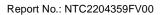
Alina Guo / Project Engineer

Approved by lori Fan Authorized Signatory



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# **Revision History**

Report Number	Description	Issued Date
NTC2204359FV00	Initial Issue	2022-06-13



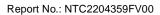


1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Line Conducted Emission	N/A see note 2	
§15.231(b) & 15.209	Radiated Spurious Emission	PASS	
§15.231(c)	20 dB Occupied bandwidth	PASS	
§15.231(a)	Transmission time	PASS	
§15.203	Antenna Requirement	PASS	

Note: 1. The EUT has been tested as an independent unit. And continual transmitting in maximum power (New batteries were used during test)

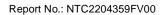
<sup>2.</sup> AC Power Conducted Emission is not applicable due to the EUT only can be powered by battery.





# 2. General Description of EUT

Product Information	
Product Name:	Wireless Door Chime
Main Model Name:	M
Additional Model Name:	MP, M-W1901P
Model Difference:	These models have the same circuit schematic, construction, PCB Layout and critical components. These differences is model number only due to trading purpose.
S/N:	2204-1733
Brand Name:	N/A
Hardware Version:	Not stated
Software Version:	Not stated
Rating:	DC 3V from CR2032 battery
Classification:	Class B
Typical arrangement:	Table-top
I/O Port:	N/A
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional Information	
Note:	According to the model difference, all tests were carried on model M.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.





Technical Specification	
Declaring the Frequency:	433.93MHz
Modulation Type:	ASK
Antenna Type:	PCB antenna
Antenna Gain:	0 dBi (Declared by manufacturer)
Number of Channels:	1





### 3. Test Channels and Modes Detail

Mode		Test Frequency (MHz)	Modulation	Data Rate (Mbps)
1	TX	433.93MHz	ASK	

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

# 4. Configuration of EUT



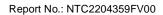
### 5. Modification of EUT

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

# 6. Description of Support Device

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.

No.	Equipment	Brand	M/N	N S/N Cable Specification Rema		Remarks





# 7. Test Facility and Location

Test Site		Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and	:	The Laboratory has been assessed and proved to be in compliance with
Authorizations		CNAS/CL01
		Listed by CNAS, August 13, 2018
		The Certificate Registration Number is L5795.
		The Certificate is valid until August 13, 2024
		The Laboratory has been assessed and proved to be in compliance with ISO17025
		Listed by A2LA, November 01, 2017
		The Certificate Registration Number is 4429.01
		Listed by FCC, November 06, 2017
		Test Firm Registration Number: 907417
		Listed by Industry Canada, June 08, 2017
		The Certificate Registration Number. Is 46405-9743A
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng
		District, Dongguan City, Guangdong Province, China



## 8. Applicable Standards and References

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

#### **Test Standards:**

47 CFR Part 15, Subpart C, 15.231 ANSI C63.10-2013

#### **References Test Guidance:**

N/A

#### 9. Deviations and Abnormalities from Standard Conditions

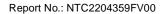
No additions, deviations and exclusions from the standard.

### 10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	AC Power Conducted Emission				
2.	Radiated Emission	1	DC 3V	Sean	See note 1
3.	20 dB Occupied bandwidth	1	DC 3V	Sean	See note 1
4.	Transmission time	1	DC 3V	Sean	See note 1
5.	Antenna Requirement				

#### Note:

- 1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35 °C, 30~70%, 86~106kPa
- 2. As the EUT can be operated multiple positions, all X,Y,Z axis were considered during the test and only the worst case X was recorded.



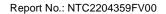


# 11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	
2.	Radiated Emission Test	9kHz ~ 30MHz	±5.04 dB	
		30MHz ~ 1GHz	±5.04 dB	
		1GHz ~ 18GHz	±5.23 dB	
		18GHz ~ 40GHz	±5.23 dB	

#### Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The measurement uncertainly levels above are estimated and calculated according to CISPR 16-4-2.
- 3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.





## 12. Sample Calculations

	Conducted Emission							
Freq. Reading Level Correct Factor Measurement Limit Over (MHz) (dBuV) (dB) (dBuV) (dB)								
0.1900	30.10	10.60	40.70	79.00	-38.30	QP		

Where,

Freq. = Emission frequency in MHz

Reading Level = Spectrum Analyzer/Receiver Reading

Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation

Measurement = Reading + Corrector Factor

Limit = Limit stated in standard

Margin = Measurement - Limit

Margin = Measurement - Limit

Detector = Reading for Quasi-Peak / Average / Peak

	Radiated Spurious Emissions						
Freq. Reading Level Correct Factor Measurement Limit Over (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB)							
60.0700	45.88	-18.38	27.50	49.00	-21.50	QP	

Where,

Freq. = Emission frequency in MHz

Reading Level = Spectrum Analyzer/Receiver Reading

Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier

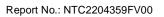
Measurement = Reading + Corrector Factor

Limit = Limit stated in standard

Over = Margin, which calculated by Measurement - Limit

Detector = Reading for Quasi-Peak / Average / Peak

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.





# 13. Duty Cycle

Frequency MHz	TP time (ms)	Ton time (Total) (ms)	Duty cycle	AV Factor
433.93	25.61	6.54	25.53%	-11.86
	Test F	Photo		
TP time			Ton 1 time	
10 addisiv Ref -10.00 dBm	Span 0 Hz 30.00 ms (1001 pts)  Properties  More 1 of 2	Center 433.930000 MHz Res BW 100 Mtz  Res BW 100 Mtz  Res BW 100 Mtz	Trig: Free Run Atten: 5 dB  Avg Type: RNS Avgilvoid: 1/1  America dB  Avg Type: RNS Avgilvoid: 1/1  America dB  Avg Type: RNS Avgilvoid: 1/1  America dB  Avgilvoid: 1/1	Select Marker  1 180.0 µ  1 0 0.23 dB  Normal  Delta  Fixed  Fixed  Fixed  Properties  More  1 of 2
Ton 2 time		Encicled Sourtness Analyzer - Sourt St.	Ton 3 time	
Secretary September Adaptive - Secretary Sec	AMKr1 600.0 µs  -0.036 dB  Normal	Center 433.930000 MHz	#Avg Type: RMS Avg Hold: 1/1 Atten: 6 dB	
MMR   MODE   TRC   SCL   X   Y   FUNCTION   WIDT   1   Δ2   1   t   (Δ)   600.0 μs   (Δ)   -0.036 dB   -0.036 d	H FUNCTION VALUE A	MKR MODE TRC SCL X	Y FUNCTION FUNCTION WIDTH Δ) -15.398 dB -44.217 dBm	FUNCTION VALUE A

Note: Duty Cycle = (Total Ton time / TP time ) x 100%

Total Ton time = Ton 1 x n1 + Ton 2 x n2 + ....+ Ton n x n = 0.18\*9 + 0.6\*4 + 0.21\*12 = 6.54ms AV Factor = 20log(Duty Cycle).



### 14. Test Items and Results

#### **14.1 Conducted Emissions Measurement**

#### **LIMIT**

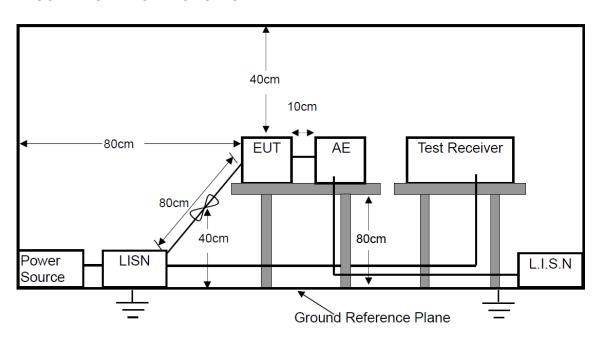
According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

Note: 1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.

- 2. The lower limit shall apply at the transition frequencies.
- 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

#### **BLOCK DIAGRAM OF TEST SETUP**





#### **TEST PROCEDURES**

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

#### **TEST RESULTS**

Not Applicable.





### 14.2 Radiated Spurious Emissions Measurement

#### LIMIT

Frequency range	Distance Meters	Field Strengths Limit (15.209)
MHz	2.000.00	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	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

Remark:

- (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ 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.
- (5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.





According to 15.231(b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/ meter)	spurious emissions (microvolts/meter)
40.66 - 40.70	2250	225
70 - 130	1250	125
130 - 174	1250 to 3750*	125 to 375*
174 - 260	3750	375
260 - 470	3750 to 12500*	375 to 1250*
Above 470	12500	1250

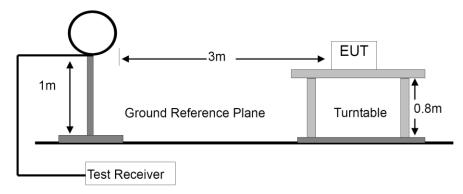
Remark:

- (1) \* Linear interpolations
- (2) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m.
- (3) The smaller limit shall apply at the cross point between two frequency bands.

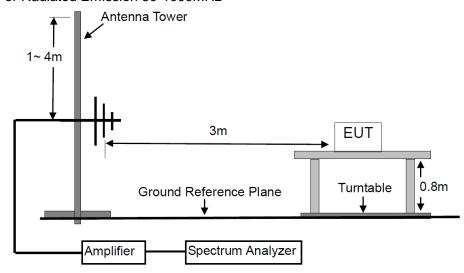


#### **BLOCK DIAGRAM OF TEST SETUP**

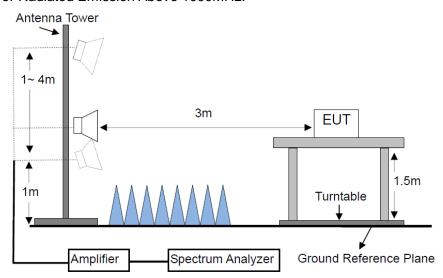
#### For Radiated Emission below 30MHz



#### For Radiated Emission 30-1000MHz



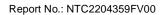
#### For Radiated Emission Above 1000MHz.





#### **TEST PROCEDURES**

- a. Below 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.





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

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth	
30 to 1000	QP	120 kHz	300 kHz	
Above 1000	Peak	1 MHz	3 MHz	
7.0000	Average	1 MHz	10 Hz	

#### **TEST RESULTS**

**PASS** 

Please refer to the following pages.

AVG = Peak + AV Factor,

where Peak is the measurement peak level, and AV Factor is calculated by duty cycle, details see section 13 of the report.

Sample calculation, Peak=52.15dBuV/m, AV Factor= -11.86dB, then AVG=85.36+(-11.86)=73.50dBuV/m.





M/N: M	Testing Voltage: DC 3V
Polarization: Horizontal	Detector: QP
Test Mode: TX	Distance: 3m

#### **Radiated Emission Measurement** Date: 2022/6/2 Time: 15:00:17 102.0 dBuV/m 92 82 72 62 FCC\_15.231\_433M\_3m\_Peak 52 Margin -6 dB 42 32 22 12 2.0 30.0000 127.000 224.000 321.000 612.000 709.000 806.000 1000.000 MHz 418.000 515.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB/m	dBuV/m	dBu√/m	dB	Detector	Comment
1		269.5900	6.68	20.89	27.57	46.00	-18.43	QP	
2	*	433.9300	61.14	24.22	85.36			peak	
3		433.9300			73.50	80.80	-7.30	AVG	
4		815.7000	6.04	30.62	36.66	46.00	-9.34	QP	
5		867.8600	13.41	31.50	44.91			peak	
6		867.8600			33.05	60.80	-27.75	AVG	
7		903.9700	6.72	33.00	39.72	46.00	-6.28	QP	
8		996.1200	6.30	33.69	39.99	54.00	-14.01	QP	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.





30.0000

127.000

224.000

321.000

418.000

M/N: M	Testing Voltage: DC 3V
Polarization: Vertical	Detector: QP
Test Mode: TX	Distance: 3m

# 

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBu∨	dB/m	dBu√/m	dBu√/m	dB	Detector	Comment
-	1		31.9400	10.07	17.75	27.82	40.00	-12.18	QP	
-	2		106.6300	14.69	17.64	32.33	43.50	-11.17	QP	
-	3	*	433.9300	53.65	23.22	76.87			peak	
_	4		433.9300			65.01	80.80	-15.79	AVG	
_	5		678.9300	7.57	28.52	36.09	46.00	-9.91	QP	
_	6		867.8600	9.04	31.50	40.54			peak	
-	7		867.8600			28.68	60.80	-32.12	AVG	
-	8		959.2600	6.75	32.14	38.89	46.00	-7.11	QP	

515.000

612.000

709.000

806.000

1000.000 MHz

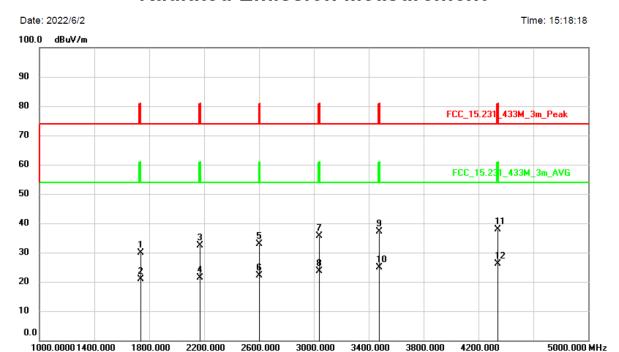
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.



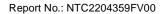


M/N: M	Testing Voltage: DC 3V		
Polarization: Horizontal	Detector: Peak & AVG		
Test Mode: TX	Distance: 3m		

# **Radiated Emission Measurement**



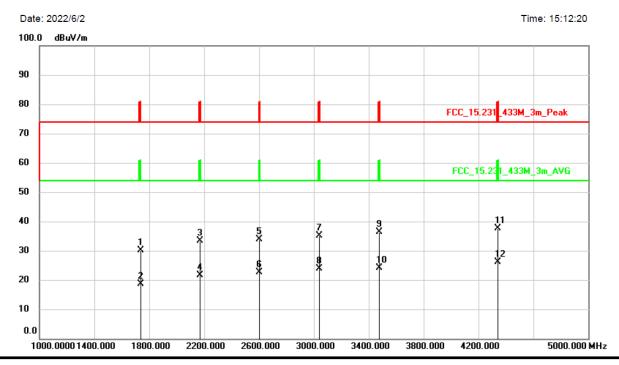
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBu∨	dB/m	dBu√/m	dBuV/m	dB	Detector	Comment	_
1		1735.720	34.27	-4.33	29.94	80.80	-50.86	peak		
2		1735.720			20.77	60.80	-40.03	AVG		_
3		2169.650	32.82	-0.47	32.35	80.80	-48.45	peak		
4		2169.650			21.45	60.80	-39.35	AVG		_
5		2603.580	32.11	0.77	32.88	80.80	-47.92	peak		
6		2603.580			22.20	60.80	-38.60	AVG		
7		3037.510	33.69	1.85	35.54	80.80	-45.26	peak		_
8		3037.510			23.69	60.80	-37.11	AVG		
9		3471.440	34.47	2.68	37.15	80.80	-43.65	peak		_
10		3471.440			24.87	60.80	-35.93	AVG		
11		4339.300	33.10	4.75	37.85	80.80	-42.95	peak		
12	*	4339.300			26.12	60.80	-34.68	AVG		_





M/N: M	Testing Voltage: DC 3V		
Polarization: Vertical	Detector: Peak & AVG		
Test Mode: TX	Distance: 3m		

# **Radiated Emission Measurement**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBu∨	dB/m	dBu√/m	dBu∀/m	dB	Detector	Comment	
1		1735.720	34.35	-4.33	30.02	80.80	-50.78	peak		
2		1735.720			18.74	60.80	-42.06	AVG		
3		2169.650	33.81	-0.47	33.34	80.80	-47.46	peak		
4		2169.650			21.74	60.80	-39.06	AVG		
5		2603.580	33.00	0.77	33.77	80.80	-47.03	peak		
6		2603.580			22.70	60.80	-38.10	AVG		
7		3037.510	33.20	1.85	35.05	80.80	-45.75	peak		
8		3037.510			23.84	60.80	-36.96	AVG		
9		3471.440	33.66	2.68	36.34	80.80	-44.46	peak		
10		3471.440			24.23	60.80	-36.57	AVG		
11		4339.300	32.99	4.75	37.74	80.80	-43.06	peak		
12	*	4339.300			26.11	60.80	-34.69	AVG		



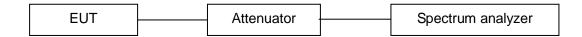
## 14.3 20dB Occupied Bandwidth

#### **LIMIT**

According to 15.231(C), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

Limit = 433.93MHz\*0.25% = 1084.825 KHz

#### **BLOCK DIAGRAM OF TEST SETUP**



#### **TEST PROCEDURES**

- 1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
- 2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data

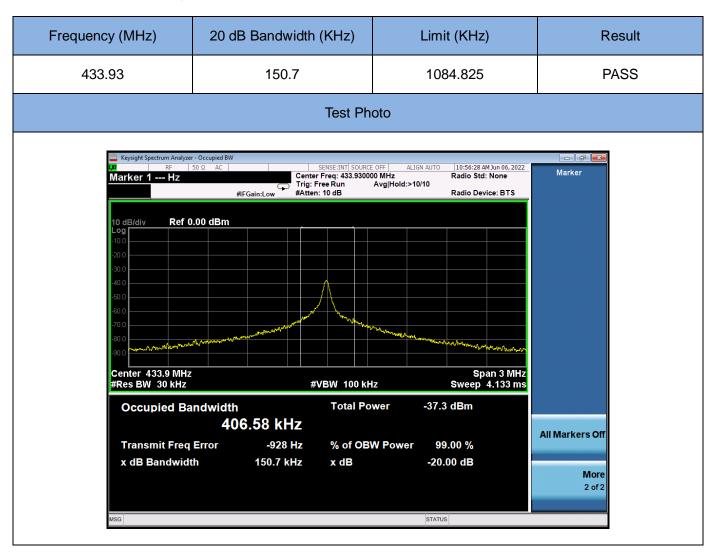




## **TEST RESULTS**

**PASS** 

Please refer to the following table.





#### 14.4 Transmission time

#### LIMIT

15.231 (a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

15.231(a) (2) A transmitter activated automatically shall cease transmission within 5seconds after activation.

15.231(e), under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at lest 30 times the duration of transmission but in no case less than 10 seconds.

#### **BLOCK DIAGRAM OF TEST SETUP**



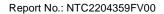
#### **TEST PROCEDURES**

- 1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
- 2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data.

#### **TEST RESULTS**

**PASS** 

Please refer to the following table.









### 14.5 Antenna Requirement

#### STANDARD APPLICABLE

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.

#### ANTENNA CONNECTED CONSTRUCTION

The antenna is PCB antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0dBi, Therefore, the antenna is consider meet the requirement.



# 15. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2022	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2022	2 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2022	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2022	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40 101094		Mar. 13, 2022	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 23, 2021	2 Year
7.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 13, 2022	1 Year
8.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2022	2 Year
9.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2022	1 Year
10.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2022	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2022	2 Year
12.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 13, 2022	1 Year
13.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2022	1 Year
14.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2022	1 Year
15.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
16.	Test Software	EZ	EZ_EMC NTC-3A1.1	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.