Report No.:	TW2307338E
Applicant:	Ningbo Free Trade Zone Rising Sun Electrical Co.,Ltd.
Product:	Remote Control Transmitter
Model No.:	RSW888T, RSW886T, RSD204T
Trademark:	Risingsun
Test Standards:	FCC Part 15 Subpart C, Paragraph 15.231
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.231 for the evaluation of electromagnetic compatibility
Approved By	
Terry Tong	
Terry Tang	
Manager	
Dated:	September 08, 2023

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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adopt any other remedies which may be appropriate.



1.0 General Details

1.1 Test Lab Details

Name:	SHENZHEN TIMEWAY TESTING LABORATORIES.
Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le
	Village, Nanshan District, Shenzhen, China
Telephone:	+86 755 83448688
Fax:	+86 755 83442996
Site on File w	ith the Federal Communications Commission – United Sates
Registration N	Number: 744189
For 3m Anech	noic Chamber

1.2 Applicant Details

Applicant:	Ningbo Free Trade Zone Rising Sun Electrical Co., Ltd.		
Address:	No.17, Chuanye 1 Road, West Part of Free Trade Zone, Ningbo, China		
Telephone:	0574-27688066		
Fax:	0574-27688063		

1.3 Description of EUT

Description of Le I				
Product:	Remote Control Transmitter			
Manufacturer:	Ningbo Free Trade Zone Rising Sun Electrical Co.,Ltd.			
Address:	No.17, Chuanye 1 Road, West Part of Free Trade Zone, Ningbo, China			
Trademark:	Risingsun			
Model Number:	RSW888T			
Additional Model Name	RSW886T, RSD204T			
Remark: RSW888T, RSW	886T and RSD204T are identical in the PCB layout, Schematics, and			
construction. Only the nur	nber of key buttons and appearance are different.			
Additional Trademark	N/A			
Rating:	DC3.0V (1pc CR2032 button battery)			
Operation Frequency:	433.92MHz			
Modulation Type:	OOK			
Hardware Version:	1.0			
Software Version:	1.0			
Serial No.:	N/A			
Antenna Designation	PCB Antenna with Gain -3.0dBi (Get from the antenna specification)			

- 1.4 Submitted Sample: 4 Samples
- 1.5 Test Duration

2023-07-19 to 2023-09-08

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy - Xing

The sample tested by

Print Name: Andy Xing

2.0 Test Equipment							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date		
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13		
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17		
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13		
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17		
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17		
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13		
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13		
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17		
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25		
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13		
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13		
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13		
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13		
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13		
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13		

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2.2 Automation Test Software

For Conducted Emission Test

Name	Version		
EZ-EMC	Ver.EMC-CON 3A1.1		

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

The EUT has been tested according to the following specifications:

3.0 Technical Details

3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna	Pass	Compliant
	requirements		
FCC Part 15, Paragraph 15.207	Conducted	N/A	N/A
	Emission Test		
ECC Dort 15, Domorrow 15, 200	General	Pass	Compliant
FCC Part 15, Paragraph 15.209	Requirement		Compliant
	Radiated	Pass	
FCC Part 15, Paragraph 15.231 (b)	Emission Test		Compliant
			~
FCC Part 15, Paragraph 15.231 (c)	20dB	Pass	Compliant
	Bandwidth		
	Testing		
FCC Part 15, Paragraph 15.231 (a1)	Deactivate	Pass	Compliant
	Testing		

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.231 , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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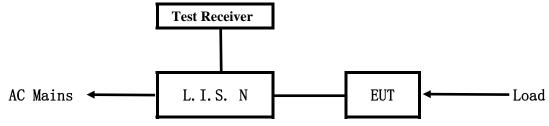
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

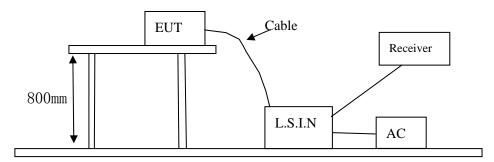


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: N/A

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A.	EUT						
	Device	Manufacturer		Model		FCC ID	
R	emote Control Transmitter	Ningbo Free Trade Zone Rising Sun Electrical Co.,Ltd.		n RSV	RSW888T, RSW886T, RSD204T		2A2XV-888T
B.	B. Internal Device						
Device		Manufacturer				Model	FCC ID/DOC
	N/A	J/A					
C.	C. Peripherals						
	Device	Manufacturer	Model	FCC ID	D/DOC	Cable	
	N/A						

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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	5.	46.0	
$5.00~\sim~30.00$	60.0	50.0	

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

Note: Due to CR2032 Button Battery operation, this test item not applicable.

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N/A

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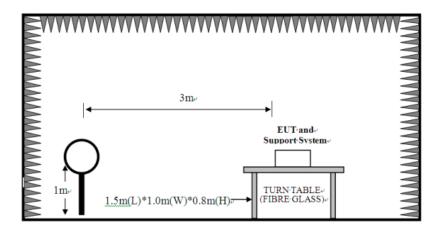


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 5 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

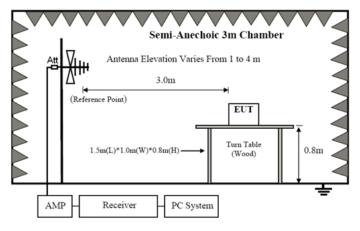


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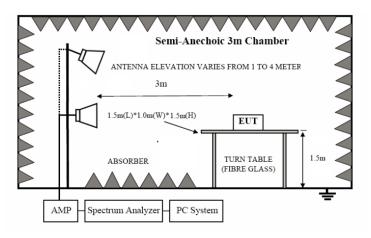
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.251(a) Limit									
Fundamental Frequency (MHz)	Field Strength of		Field Strength of Spurious						
	Funda	Fundamental		ission					
	uV/m	dBuV/m	uV/m	dBuV/m					
40.66-40.70	2250	67.04	225	47.04					
70-130	1250	61.94	125	41.94					
130-174	1250-3750	61.94-71.48	125-375	41.94-51.48					
174-260	3750	71.48	375	51.48					
260-470	3750-12500	71.48-81.94	375-1250	51.48-61.94					
Above 470	12500	81.94	1250	61.94					

A FCC Part 15 Subpart C Paragraph 15.231(a) Limit

Note: 1. RF Field Strength $(dBuV) = 20 \log RF$ Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

4. Linear interpolations for frequency ranges 130-174MHz and 260-470MHz

5.the above field strength limits are specified at a distance of 3-meters and the tighter limits apply at the band edges

6. New batteries were installed in the equipment under test for radiated emission testing.

7. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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B. Frequencies in restricted band are compiled to limit on Paragraph 15.209.

-	-	
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-5G, the final emission level got using PK detector. And Average = peak(dBuV/m) - duty cycle(dB)

6.5 Test result

A Fundamental and Harmonics Radiated emission data

Product:	Remote Control Transmitter		Test Mode:	Keep Tra	nsmitting
Test Item:	Fundamental Radiated Emission Spurious Emission Data	and	Temperature:	25℃	
Test Voltage:	DC3.0V		Humidity:	56%	
Test Result:	Pass				
Frequency	Emission PK/AV	H	Iorizontal / Verti	cal	Limits PK/AV
(MHz)	(dBuV/m)				(dBuV/m)
433.92	82.17 (PK)/ 74.04 (AV)		Н		100.8/80.6
433.92	69.32 (PK)/ 61.19 (AV)		V		100.8/80.6
867.84			Н		80.8/60.6
867.84			V		80.8/60.6
1301.76			Н		74/54
1301.76	33.44 (PK)/ 25.31 (AV)		V		74/54
1735.68			Н		80.8/60.6
1735.68			V		80.8/60.6
2169.6			Н		80.8/60.6
2169.6			V		80.8/60.6
2603.52			Н		80.8/60.6
2603.52			V		80.8/60.6
3037.44	49.50 (PK)/ 41.37 (AV)		Н		80.8/60.6
3037.44	42.50 (PK)/ 34.37 (AV)		V		80.8/60.6
3471.36			H/V		80.8/60.6

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3905.28	 H/V	74/54
4339.2	 H/V	74/54

Note: H=Horizontal, V=Vertical, AV=PK- | duty cycle factor | =PK -8.13

B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results:

Please refer to following diagram for individual

Pass

FCC_FCC Part 15C Class B 30MHz-1GHz M1 80 70 60· 50 (dBuV/m) 40 Leve 30 20 10 0.0-100 400 600 50 200 800 1000 30 Frequency (MHz)

No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	433.904	82.17	-8.03	46.0	-36.17	Peak	94.00	100	Horizontal	N/A

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B. General Radiated Emission Data

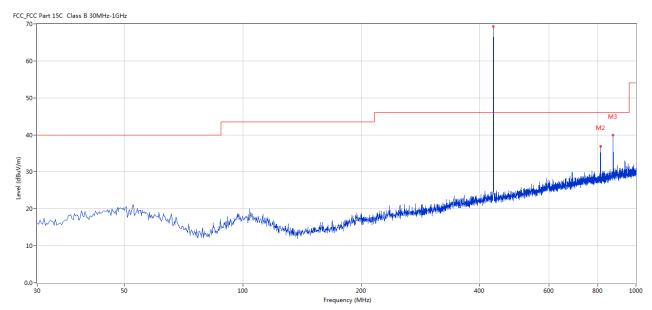
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results:

Please refer to following diagram for individual

Pass



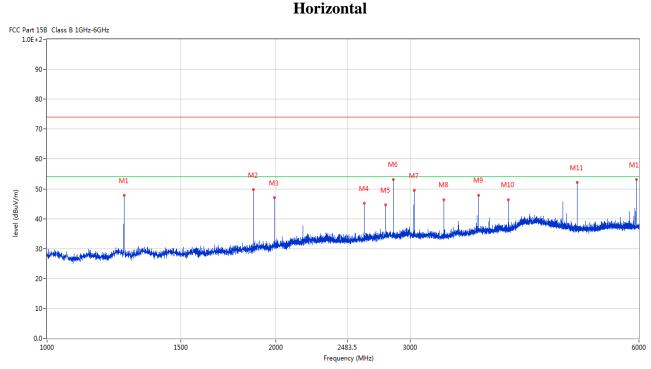
No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	433.904	69.32	-8.03	46.0	-23.32	Peak	75.00	100	Vertical	N/A
2	812.594	36.87	-2.94	46.0	9.13	Peak	236.00	100	Vertical	Pass
3	875.144	39.89	-2.17	46.0	6.11	Peak	47.00	100	Vertical	Pass

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Test Plot above 1G



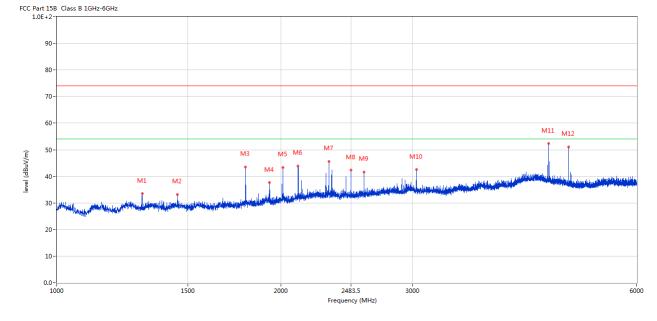
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	1262.434	47.80	-8.50	74.0	-26.20	Peak	38.00	100	Horizontal	Pass
2	1867.783	49.65	-6.21	74.0	-24.35	Peak	145.00	100	Horizontal	Pass
3	1989.253	47.10	-5.20	74.0	-26.90	Peak	145.00	100	Horizontal	Pass
4	2611.097	45.11	-3.28	74.0	-28.89	Peak	130.00	100	Horizontal	Pass
5	2786.053	44.58	-2.73	74.0	-29.42	Peak	360.00	100	Horizontal	Pass
6	2851.037	53.68	-2.68	74.0	-20.32	Peak	32.00	100	Horizontal	Pass
7	3037.491	49.50	-2.47	74.0	-24.50	Peak	35.00	100	Horizontal	Pass
8	3322.419	46.37	-2.04	74.0	-27.63	Peak	165.00	100	Horizontal	Pass
9	3694.326	47.92	-0.25	74.0	-26.08	Peak	165.00	100	Horizontal	Pass
10	4036.991	46.37	1.27	74.0	-27.63	Peak	302.00	100	Horizontal	Pass
11	4975.756	52.16	3.39	74.0	-21.84	Peak	115.00	100	Horizontal	Pass
12	5955.011	53.12	3.80	74.0	-17.88	Peak	165.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	1301.925	33.44	-8.24	74.0	-40.56	Peak	53.00	100	Vertical	Pass
2	1452.387	33.20	-8.16	74.0	-40.80	Peak	63.00	100	Vertical	Pass
3	1792.302	43.53	-6.88	74.0	-30.47	Peak	63.00	100	Vertical	Pass
4	1928.268	37.61	-5.69	74.0	-36.39	Peak	200.00	100	Vertical	Pass
5	2010.747	43.33	-5.02	74.0	-30.67	Peak	200.00	100	Vertical	Pass
6	2105.724	43.97	-4.19	74.0	-30.03	Peak	200.00	100	Vertical	Pass
7	2318.170	45.61	-3.26	74.0	-28.39	Peak	0.00	100	Vertical	Pass
8	2481.130	42.35	-3.57	74.0	-31.65	Peak	0.00	100	Vertical	Pass
9	2585.104	41.64	-3.36	74.0	-32.36	Peak	23.00	100	Vertical	Pass
10	3037.491	42.50	-2.47	74.0	-31.50	Peak	0.00	100	Vertical	Pass
11	4573.857	52.29	2.47	74.0	-21.71	Peak	5.00	100	Vertical	Pass
12	4862.534	51.13	3.18	74.0	-22.87	Peak	5.00	100	Vertical	Pass

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7.0 20dB Bandwidth Testing

7.1 Requirement

Per 15.231(c), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

7.2 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

7.3 Test Data

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
433.92	208.42	1084.8	Pass

Limit=Frequency x 0.25%=433.92x 0.25%=1084.8kHz

Refer to attached plots:

The report refers only to the sample tested and does not apply to the bulk.

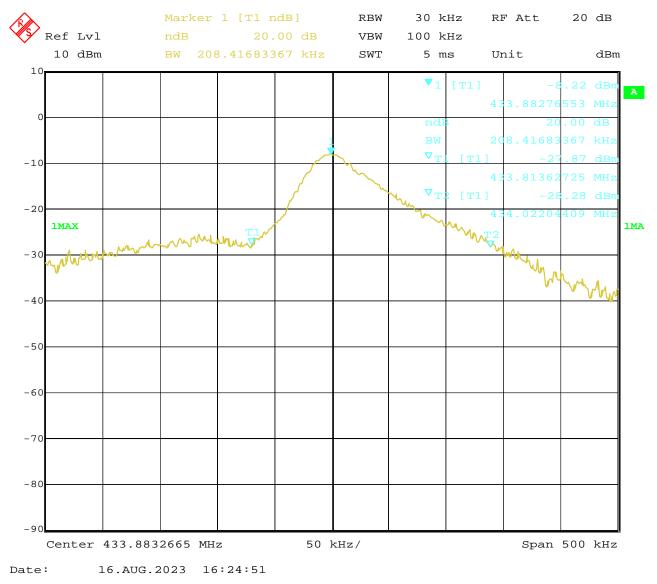
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20dB Bandwidth



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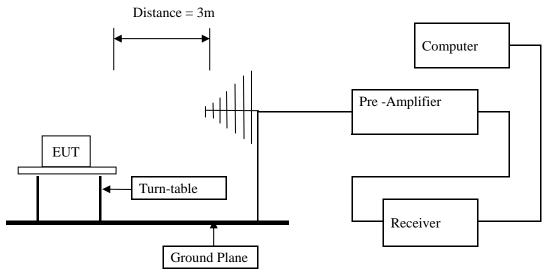
8.0 Deactivate Test

8.1 Requirement

Per 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.

8.2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing The deactivation test was performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.231(e) limits.

8.3 Test Procedure

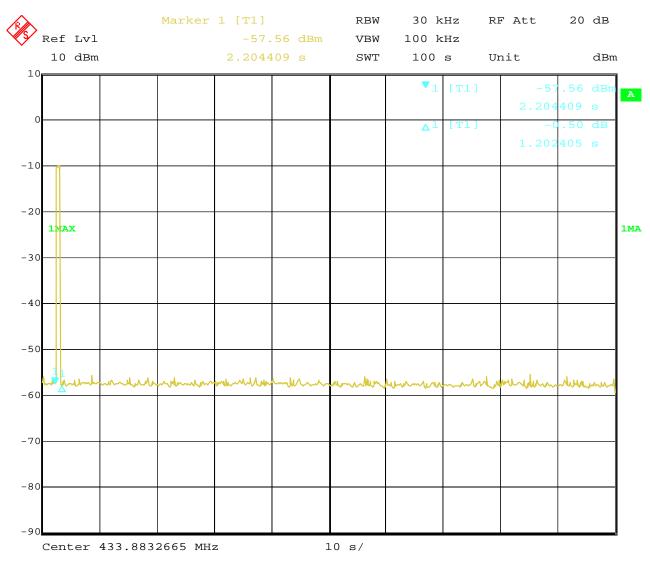
Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

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8.4 Test Data Refer to attached plots:



Date: 18.AUG.2023 16:13:53

8.5 Test result

Pass

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9.0 Duty Cycle

9.1 Limit

No dedicated limit specified in the Rules

9.2 Test Procedure

1. Place the EUT on the table and set it in transmitting mode.

2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

- 3. Set center frequency of spectrum analyzer=operating frequency.
- 4. Set the spectrum analyzer as RBW = VBW=1000kHz, Span=0Hz, Adjust Sweep=100ms.
- 5. Repeat above procedures until all frequency measured were complete.

9.3 Test Data

Base on the worst case

$$\begin{split} Tp &= 64.545 ms \\ T_{on1} &= 1.182^{*9} = 10.638 \ (ms) \\ T_{on2} &= 0.611^{*}24 = 14.664 \ (ms) \\ Duty \ cycle = Ton/Tp = 25.302/64.545 = 0.3920 = 39.20\% \\ Duty \ cycle \ factor &= 20 \ * \ log \ (duty \ cycle) = 20 \ * \ log \ (0.3920) = -8.13 dB \end{split}$$

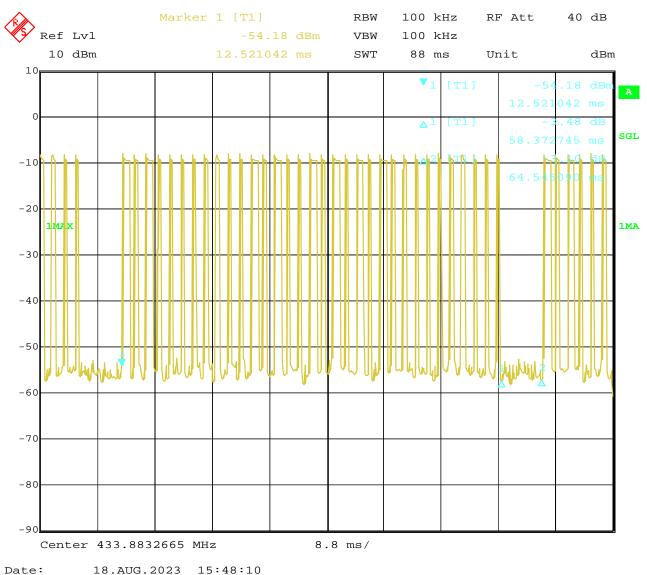
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Testing Plots:

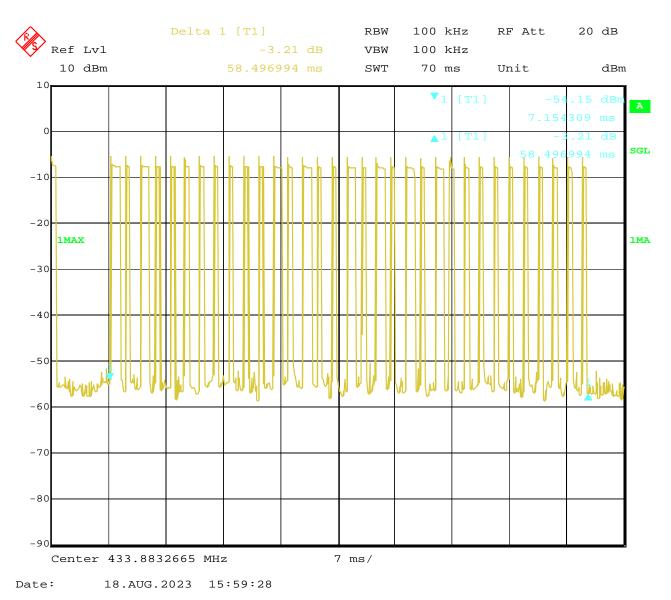


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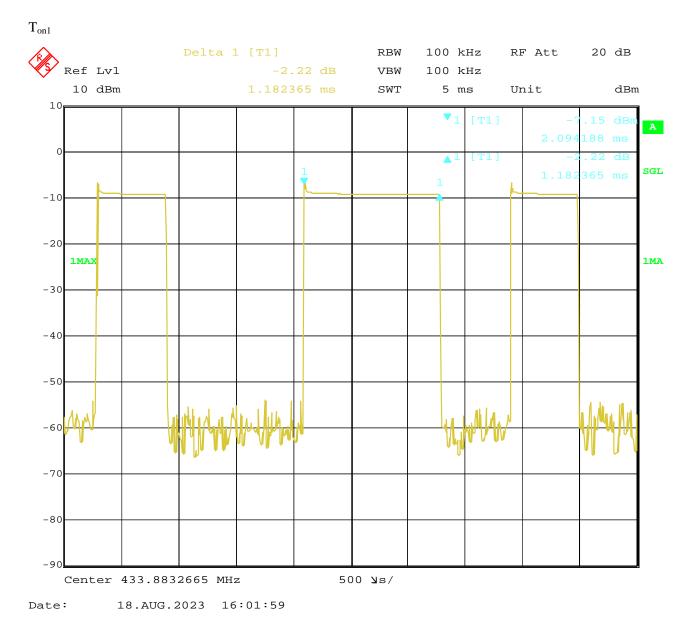
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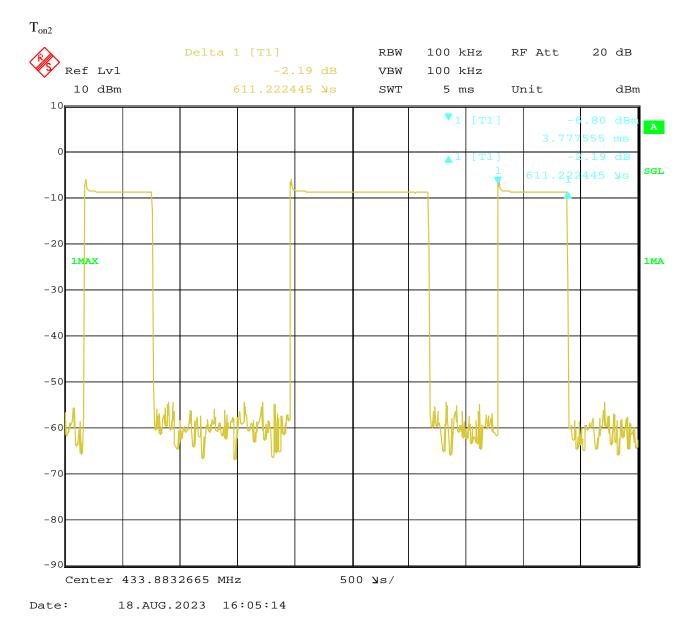




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10.0 Antenna Requirement

10.1 Standard Applicable

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 replaced 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.

10.2 Antenna Connected constructions

The antenna is PCB Antenna which is built-in. The antenna gain is -3.0dBi. So it meets the requirement of 15.203

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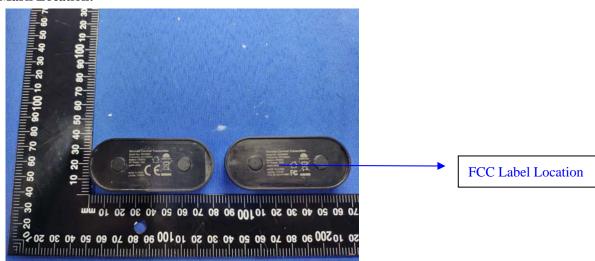
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11.0 FCC ID Label

FCC ID: 2A2XV-888T

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.



Mark Location:

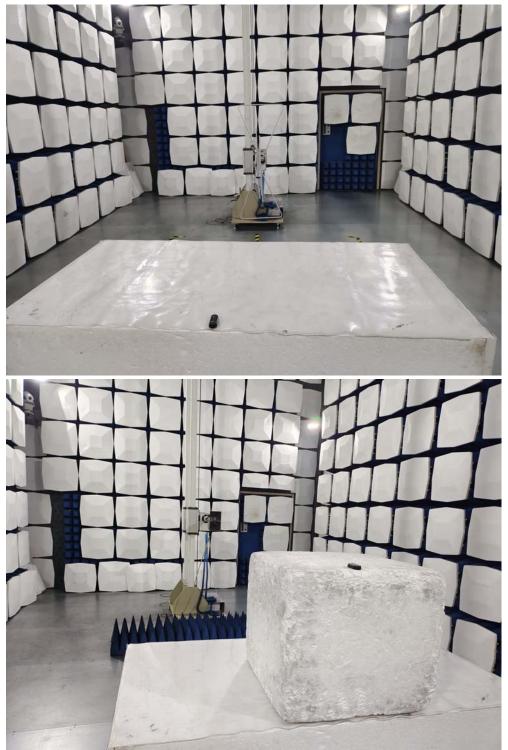
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12.0. Photo of testing

- 12.1 Conducted test View-N/A
- 12.2 Radiated emission test view



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Outside View



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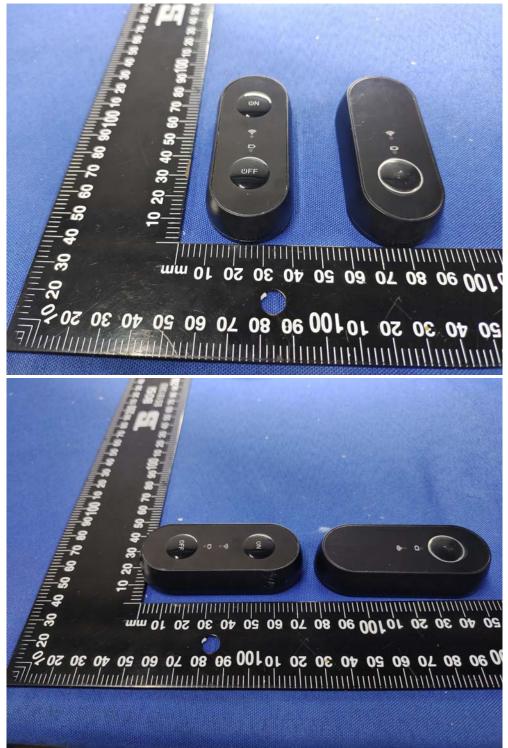


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Outside View (Model: RSW888T)



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Outside View (Model: RSW886T)



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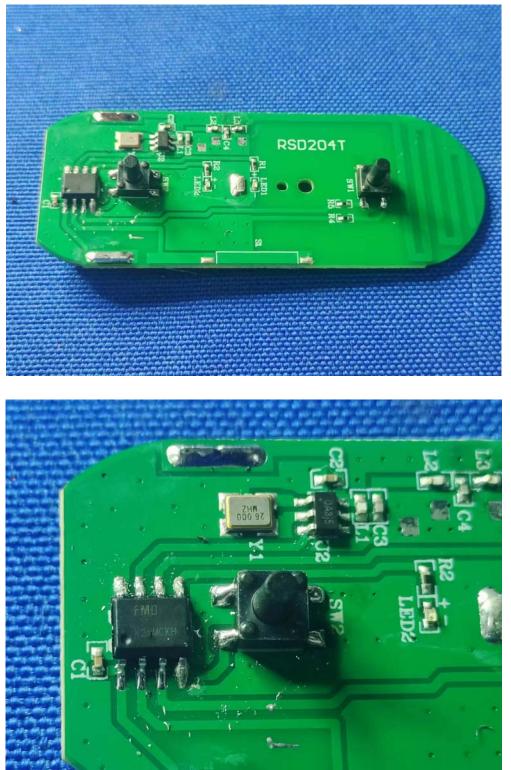
Outside View (Model: RSW204T)



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Inside View-(Model: RSD204T)



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Inside View-(Model: RSD204T)



-End of the report-

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