

TECHNICAL REPORT



Report No.: FCC1901142-02

File reference No.: 2019-01-25

Applicant: DawnSun Electronic Technology Co., Ltd. Zhongshan

Product: Remote Controller

Model No.: TX031-N, TX031-LC, TX031-L, TX031-RS, TX031-S,  
TX031-RC, TX031-C, TX031-SC, TX031-R, TX031-LRS,  
TX031-LR, TX031-LRC, TX031-LS, TX031-SRC, TX031-LSRC

Trademark: N/A

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

*Jack Chung*

Jack Chung  
Manager

Dated: January 25, 2019

**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 meets 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 17025:1999 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.

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Test Report Conclusion

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## 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 with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: DawnSun Electronic Technology Co., Ltd. Zhongshan  
Address: 8# Nanyi Street, Xinggong Road, Longxing Industrial District, Shaxi Town, Zhongshan, Guangdong, China 528471  
Telephone: (86)0760-87336328  
Fax: 0760-87332108

### 1.3 Description of EUT

Product: Remote Control  
Manufacturer: DawnSun Electronic Technology Co., Ltd. Zhongshan  
Address: 8# Nanyi Street, Xinggong Road, Longxing Industrial District, Shaxi Town, Zhongshan, Guangdong, China 528471  
Brand Name: N/A  
Model Number: TX031-N  
Additional Model Name TX031-LC, TX031-L, TX031-RS, TX031-S, TX031-RC, TX031-C, TX031-SC, TX031-R, TX031-LRS, TX031-LR, TX031-LRC, TX031-LS, TX031-SRC, TX031-LSRC  
Additional Trade Name N/A  
Rating: DC3V, 2 pcs AAA batteries  
Operation Frequency: 304MHz  
Modulation Type: OOK  
Emission Designation: 743KA1A  
Antenna Designation PCB Antenna with Gain 0dBi

### 1.4 Submitted Sample

2 Samples

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1.5 Test Duration

2019-01-17 to 2019-01-25

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%

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2018-06-22	2019-06-21
Ultra Broadband ANT	R&S	HL562	100157	2018-06-18	2019-06-17
Loop Antenna	EMCO	6507	00078608	2018-06-25	2019-06-24
Spectrum	R&S	FSIQ26	100292	2018-06-22	2019-06-21
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-06-25	2019-06-24
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-08-24	2019-08-23
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2019-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2018-06-22	2019-06-21
Spectrum	HP/Agilent	E4407B	MY50441392	2018-03-27	2019-03-26
Spectrum	RS	FSP	1164.4391.38	2019-01-18	2020-01-17
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2018-05-24	2019-05-23
RF Cable	Zhengdi	7m	--	2018-03-17	2019-03-16
RF Switch	EM	EMSW18	060391	2018-06-22	2019-06-21
Pre-Amplifier	Schwarebeck	BBV9743	#218	2018-06-22	2019-06-21
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2018-08-05	2019-08-04
DC Power Supply	Jingtong	JT12098	WYK-305	2018.08.20	2019-08-19

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Discretion temperature exchange metabolic humidity hot cabinet	Guangzhou HaiZhu HanDi test equipment factory	GDJS-500C	2004040	2018-08-22	2019-08-21
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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
FCC Part 15, Paragraph 15.203	Antenna requirements	<b>PASS</b>	Compliant
FCC Part 15, Paragraph 15.207	Conducted Emission Test	<b>N/A</b>	Compliant
FCC Part 15, Paragraph 15.209	General Requirement	<b>PASS</b>	Compliant
FCC Part 15, Paragraph 15.231 (b)	Radiated Emission Test	<b>PASS</b>	Compliant
FCC Part 15, Paragraph 15.231 (c)	20dB Bandwidth Testing	<b>PASS</b>	Compliant
FCC Part 15, Paragraph 15.231 (a1)	Deactivate Testing	<b>PASS</b>	Compliant

#### 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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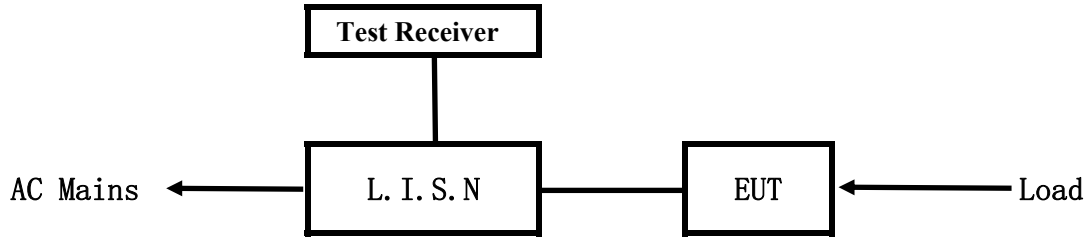
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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test

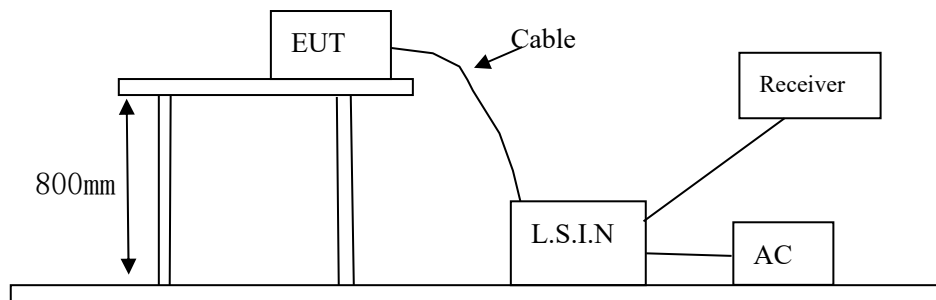


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Remote Control	DawnSun Electronic Technology Co., Ltd. Zhongshan	TX031-N, TX031-LC, TX031-L, TX031-RS, TX031-S, TX031-RC, TX031-C, TX031-SC, TX031-R, TX031-LRS, TX031-LR, TX031-LRC, TX031-LS, TX031-SRC, TX031-LSRC	A25-TX031

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable

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N/A				
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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014.

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 (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	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 Battery operation, this test item not applicable.**

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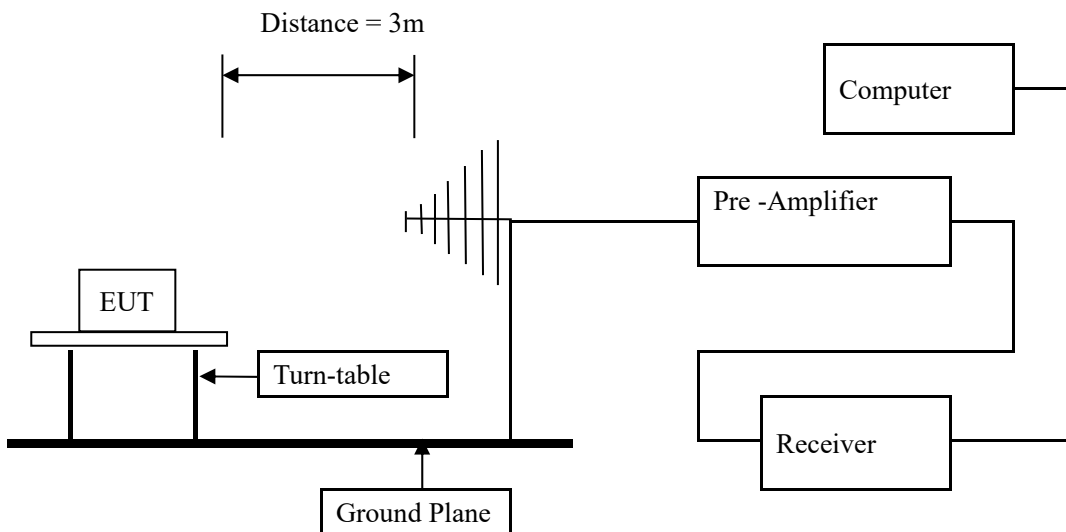


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) 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 4 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



### 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 15.231(a) Limit AND RSS-210 A1 Table A1**

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious Emission	
	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

- 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 handheld 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 $\mu$ 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-4G, 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	Test Mode:	Keep Transmitting	
Test Item:	Fundamental Radiated Emission and Spurious Emission Data	Temperature:	25°C	
Test Voltage:	DC3V	Humidity:	56%	
Test Result:	Pass			
Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
304	65.23(PK)	H	94.94/74.94	-9.71
304	55.41(PK)	V	94.94/74.94	-19.53
608	47.89(PK)	H	74.94/54.94	-7.05
608	43.34(PK)	V	74.94/54.94	-11.60
912	46.26(PK)	H	74.94/54.94	-8.68
912	36.52(PK)	V	74.94/54.94	-18.42
1216	--	H	74.94/54.94	--
1216	--	V	74.94/54.94	--
1520	-	H	74.94/54.94	--
1520	--	V	74.94/54.94	--
1824	--	H/V	74.94/54.94	--
2128	--	H/V	74.94/54.94	--
2432	--	H/V	74.94/54.94	--
2736	-	H/V	74.94/54.94	--
040	--	H/V	74.94/54.94	--

Note: 1. Average = peak(dBuV/m) + duty cycle factor(dB), H=Horizontal, V=Vertical

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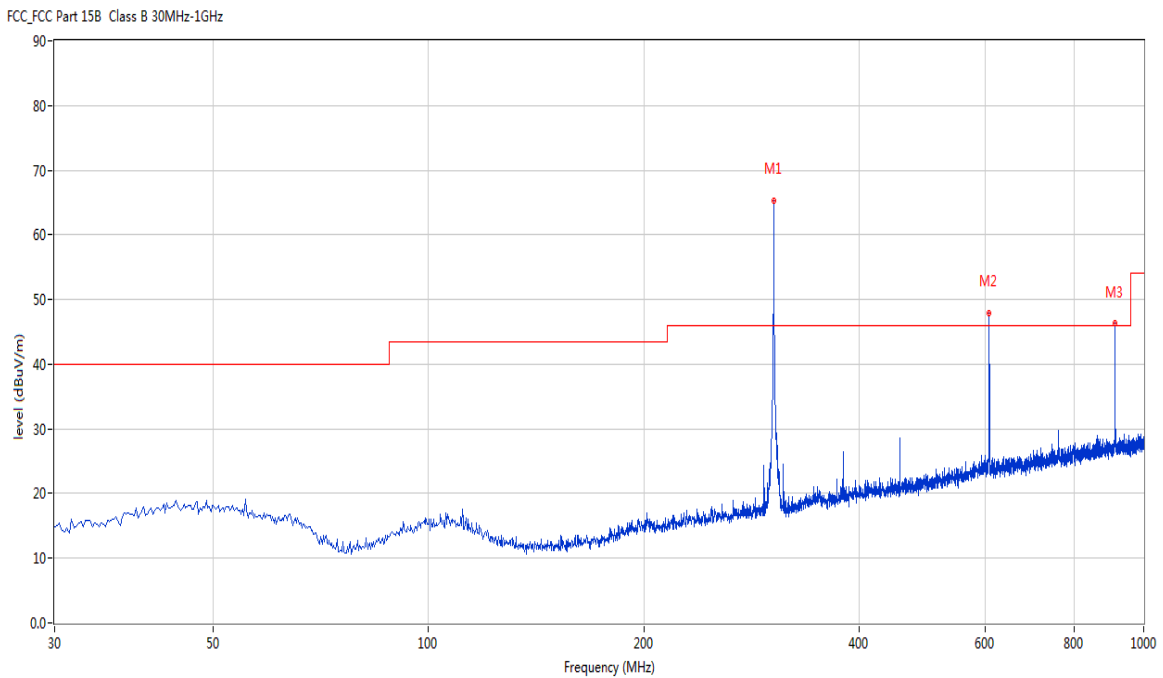


**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	303.997	65.23	-10.99	46.0	19.23	Peak	135.00	100	H	N/A
2	607.976	47.89	-5.05	46.0	1.89	Peak	240.00	200	H	N/A
3	911.995	46.26	-1.80	46.0	0.26	Peak	60.00	100	H	N/A

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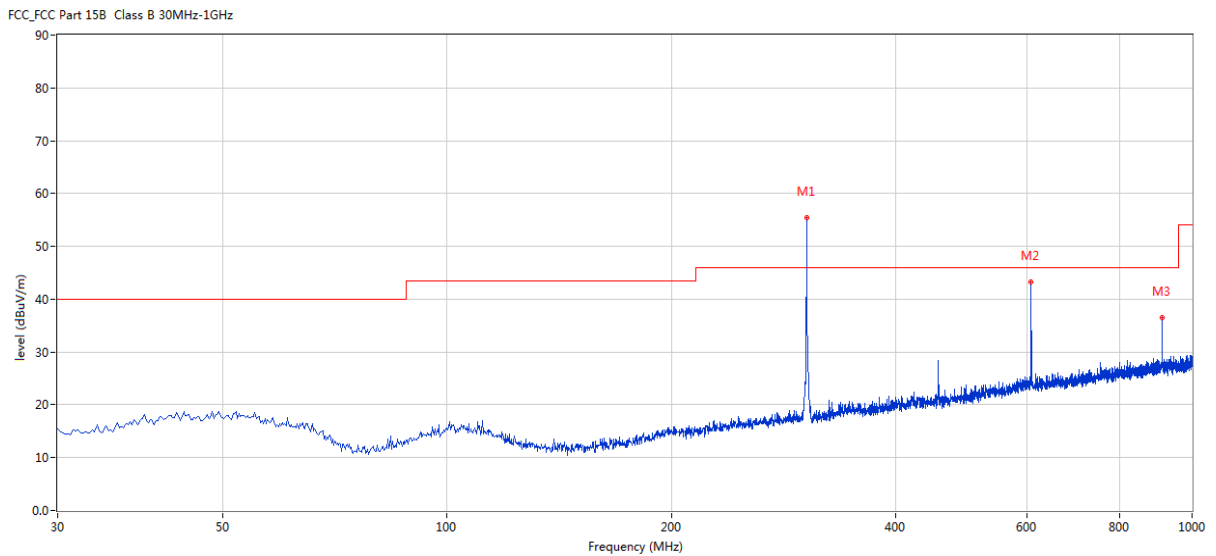
**B. General Radiated Emission Data**

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

EUT set Condition: Keep Transmitting

**Results: Pass**

Please refer to following diagram for individual



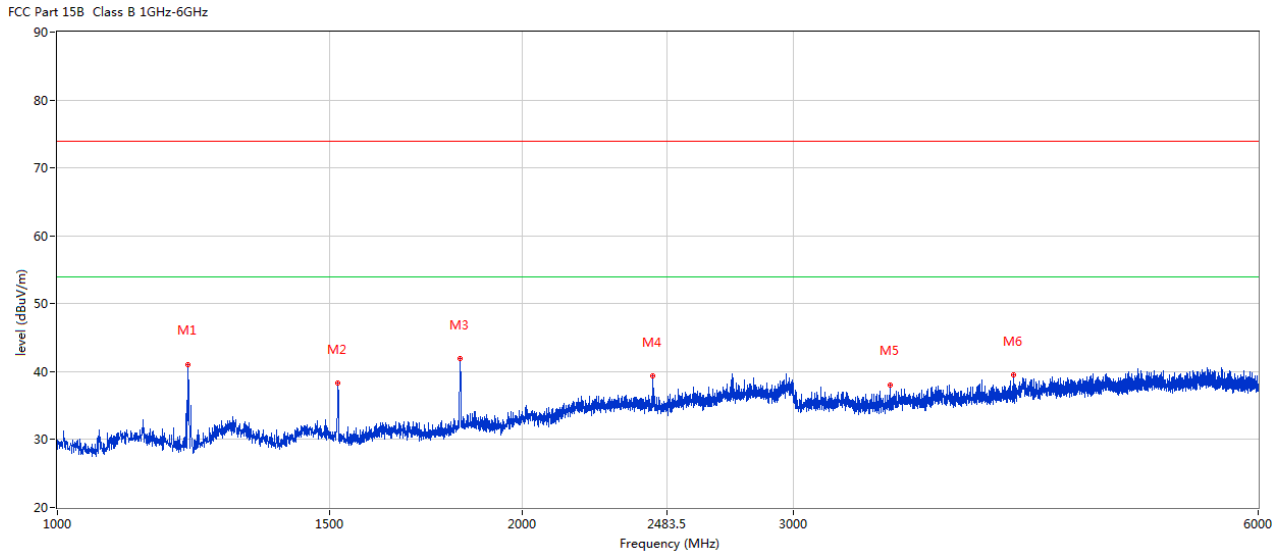
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	303.997	55.41	-10.99	46.0	9.41	Peak	360.00	200	V	N/A
2	607.976	43.34	-5.05	46.0	-2.66	Peak	360.00	200	V	Pass
3	911.995	36.52	-1.80	46.0	-9.48	Peak	44.00	100	V	Pass

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Test Plot above 1G

**Horizontal**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1215.446	41.09	-8.82	74.0	-32.91	Peak	144.00	100	H	Pass
2	1519.870	38.29	-8.12	74.0	-35.71	Peak	47.00	100	H	Pass
3	1823.294	41.88	-6.61	74.0	-32.12	Peak	240.00	100	H	Pass
4	2431.642	39.40	-3.57	74.0	-34.60	Peak	153.00	100	H	Pass
5	3466.383	38.07	-1.32	74.0	-35.93	Peak	326.00	100	H	Pass
6	4164.459	39.50	1.53	74.0	-34.50	Peak	68.00	100	H	Pass

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

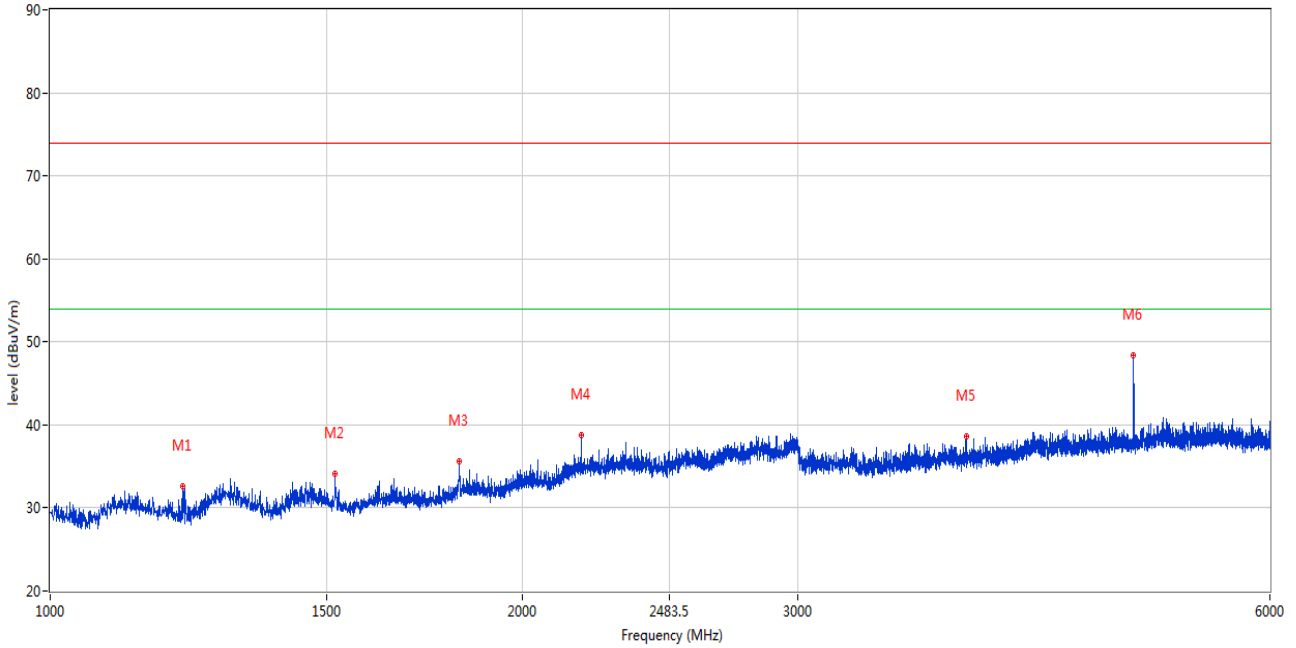
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### Vertical

FCC Part 15B Class B 1GHz-6GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1214.946	32.60	-8.82	74.0	-41.40	Peak	234.00	100	V	Pass
2	1519.370	34.09	-8.12	74.0	-39.91	Peak	234.00	100	V	Pass
3	1824.294	35.64	-6.60	74.0	-38.36	Peak	40.00	100	V	Pass
4	2182.204	38.79	-3.42	74.0	-35.21	Peak	225.00	100	V	Pass
5	3839.790	38.62	0.51	74.0	-35.38	Peak	352.00	100	V	Pass
6	4911.272	48.38	3.24	74.0	-25.62	Peak	89.00	100	V	Pass

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**7.0 20dB and 99% Bandwidth Testing**

**7.1 Requirement**

Per 15.231(c) and RSS-210 A1, 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
304	485	760	Pass

Frequency (MHz)	99% Bandwidth Emission (kHz)	Limit (kHz)	Result
304	743	760	Pass

Limit=Frequency x 0.25%=304x 0.25%=760kHz

Refer to attached plots:

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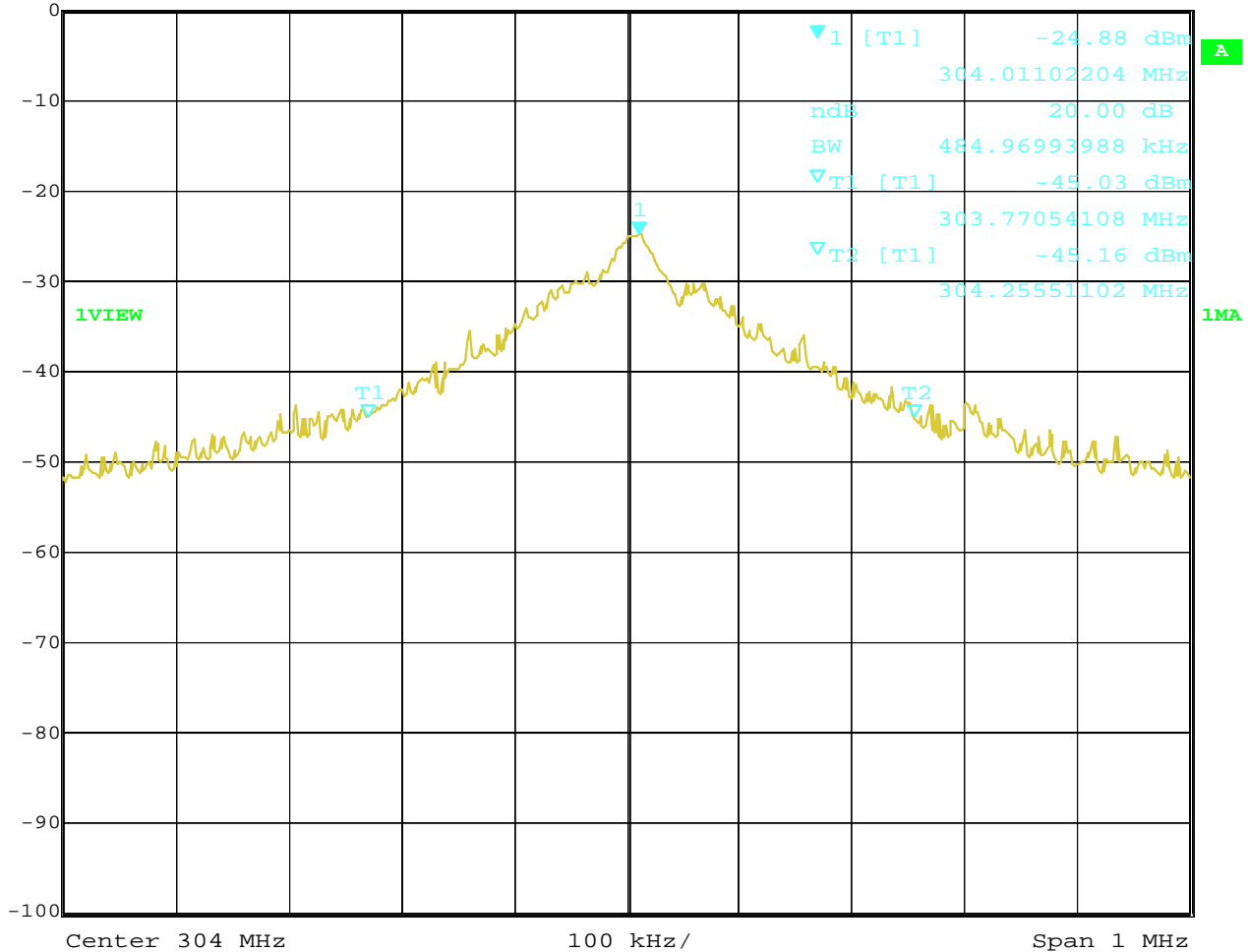




20dB Bandwidth



Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	10 dB
0 dBm	ndB 20.00 dB	VBW	100 kHz		
	BW 484.96993988 kHz	SWT	5 ms	Unit	dBm



Date: 25.JAN.2019 16:27:41

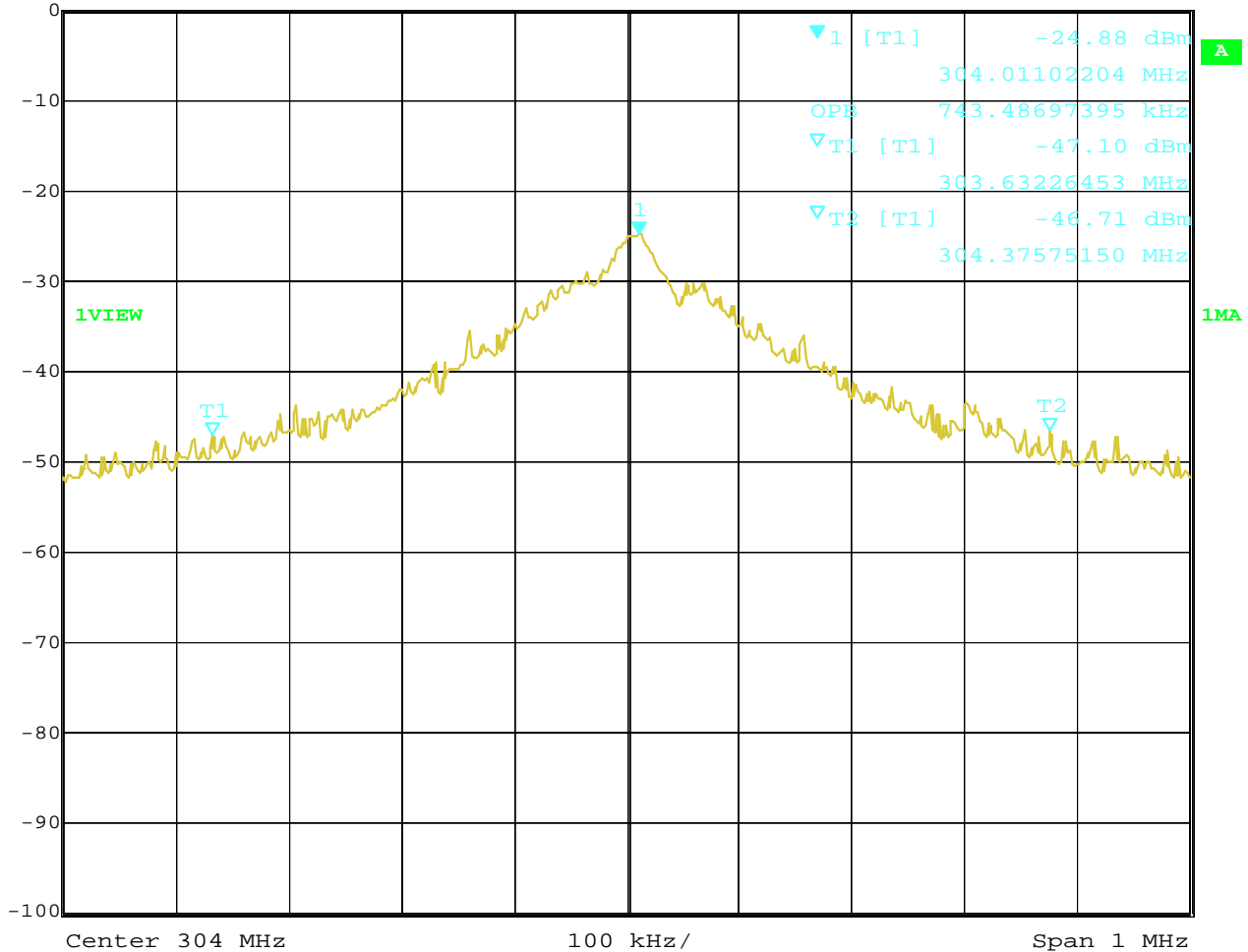
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99% Bandwidth:



Ref Lvl	Marker 1 [T1]	RBW	30 kHz	RF Att	10 dB
0 dBm	-24.88 dBm	VBW	100 kHz		
	304.01102204 MHz	SWT	5 ms	Unit	dBm



Date: 25.JAN.2019 16:27:15

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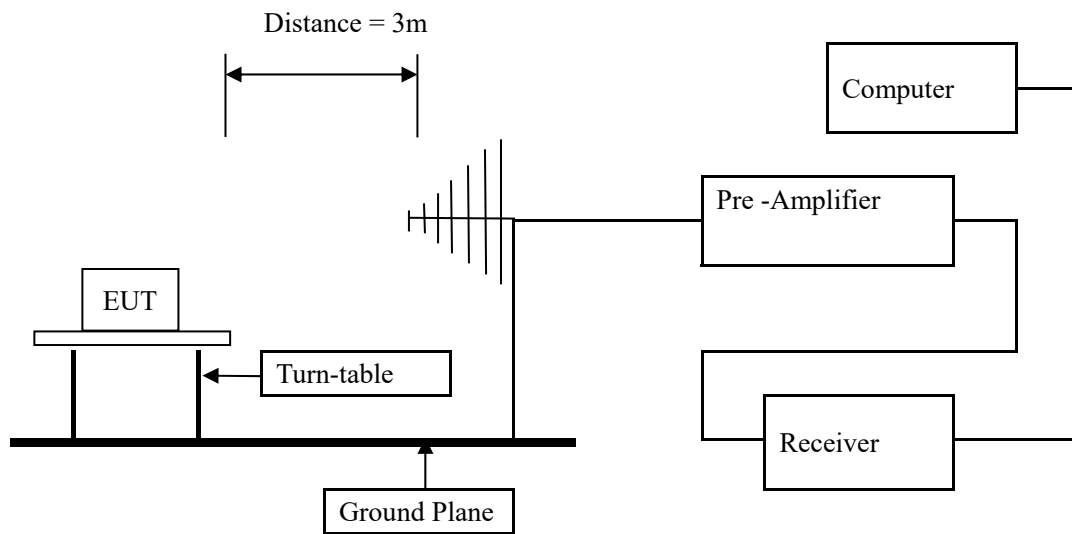
## 8.0 Deactivate Test

### 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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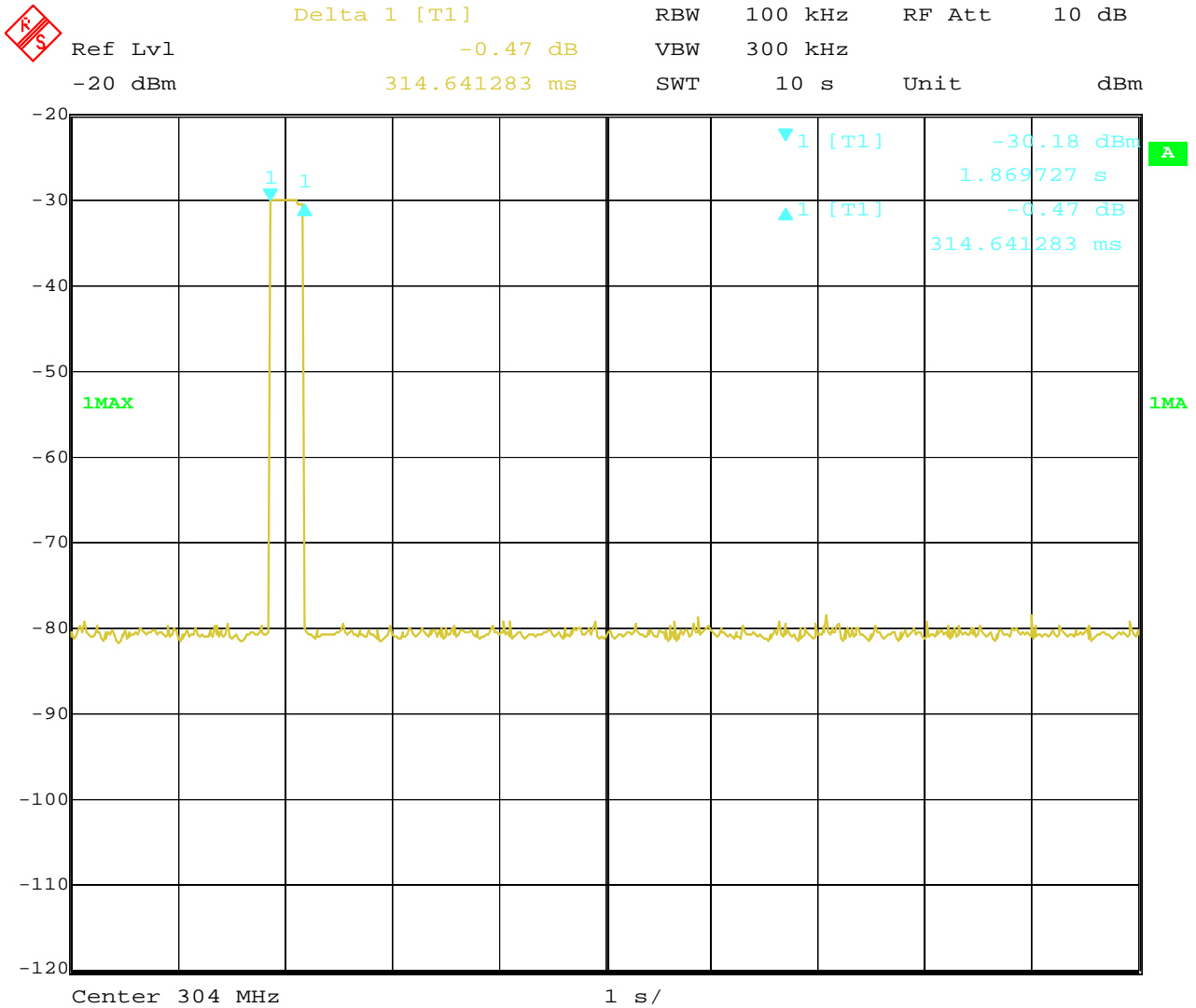
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### 8.4 Test Data

Refer to attached plots:



Date: 19.JAN.2019 10:37:54

### 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=100kHz, Span=0Hz, Adjust Sweep=100ms.
5. Repeat above procedures until all frequency measured were complete.

### 9.3 Test Data

#### Base on the worst case

$$T_p = 32.464\text{ms}$$

$$T_{on1} = 0.311 * 20 = 6.22(\text{ms})$$

$$T_{on2} = 0.679 * 5 = 3.395(\text{ms})$$

$$\text{Duty cycle} = T_{on} / T_p = 9.615 / 21.464 = 0.4480 = 44.8\%$$

$$\text{Duty cycle factor} = 20 * \log(\text{duty cycle}) = 20 * \log(0.448) = -6.97\text{dB}$$

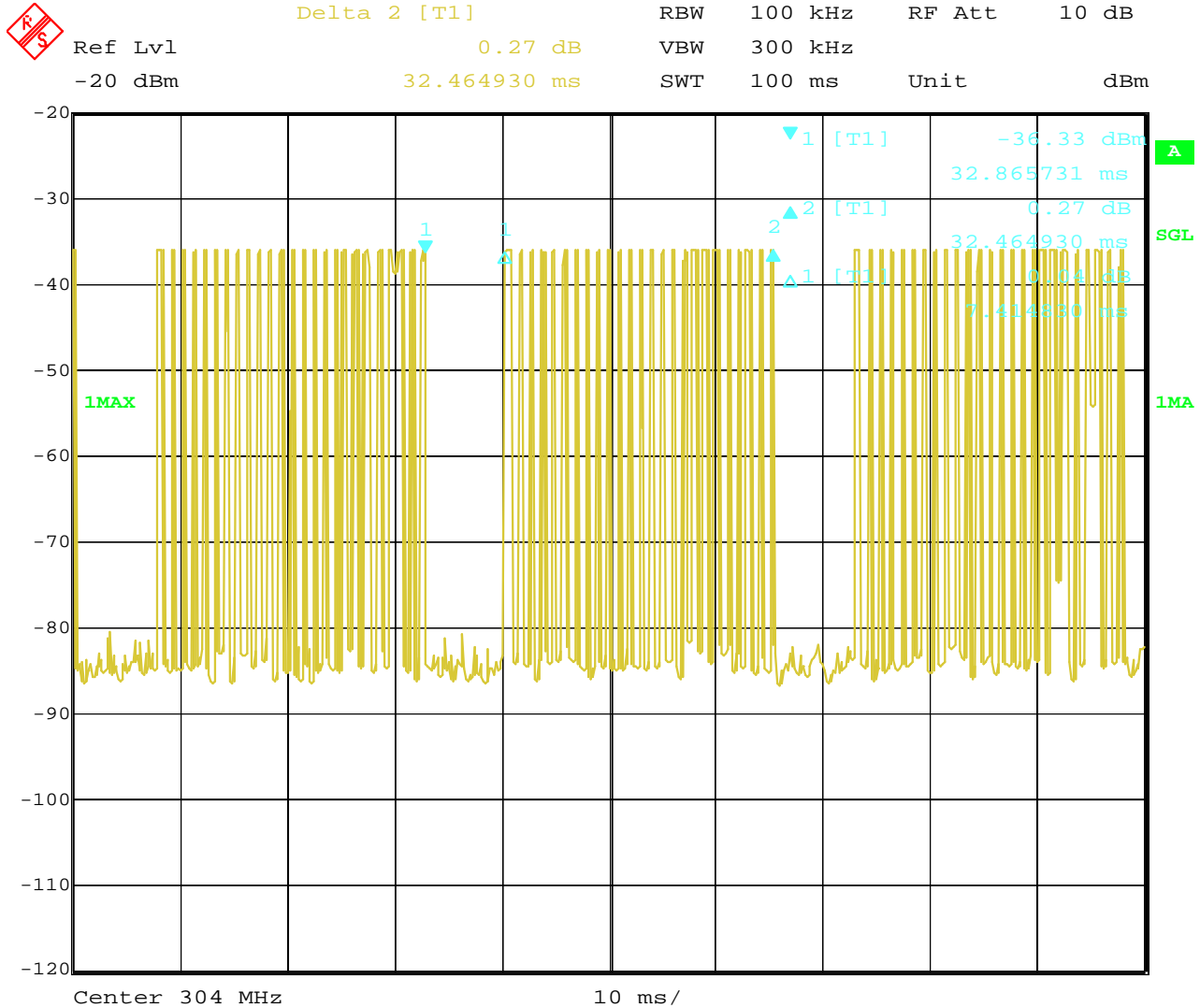
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Testing Plots:

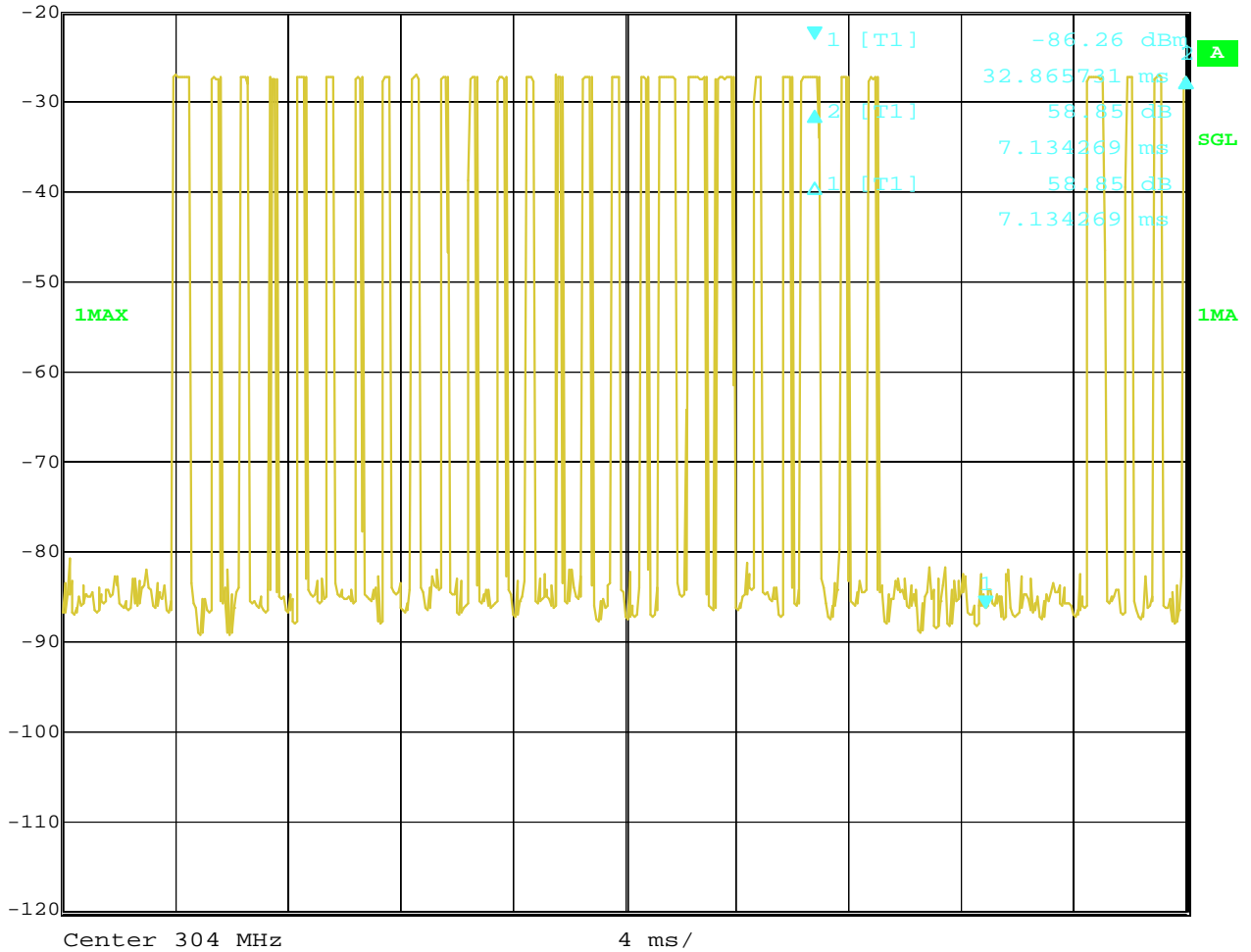


Date: 19.JAN.2019 10:39:23

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	Delta 2 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	58.85 dB	VBW	300 kHz		
-20 dBm	7.134269 ms	SWT	40 ms	Unit	dBm



Date: 19.JAN.2019 10:40:00

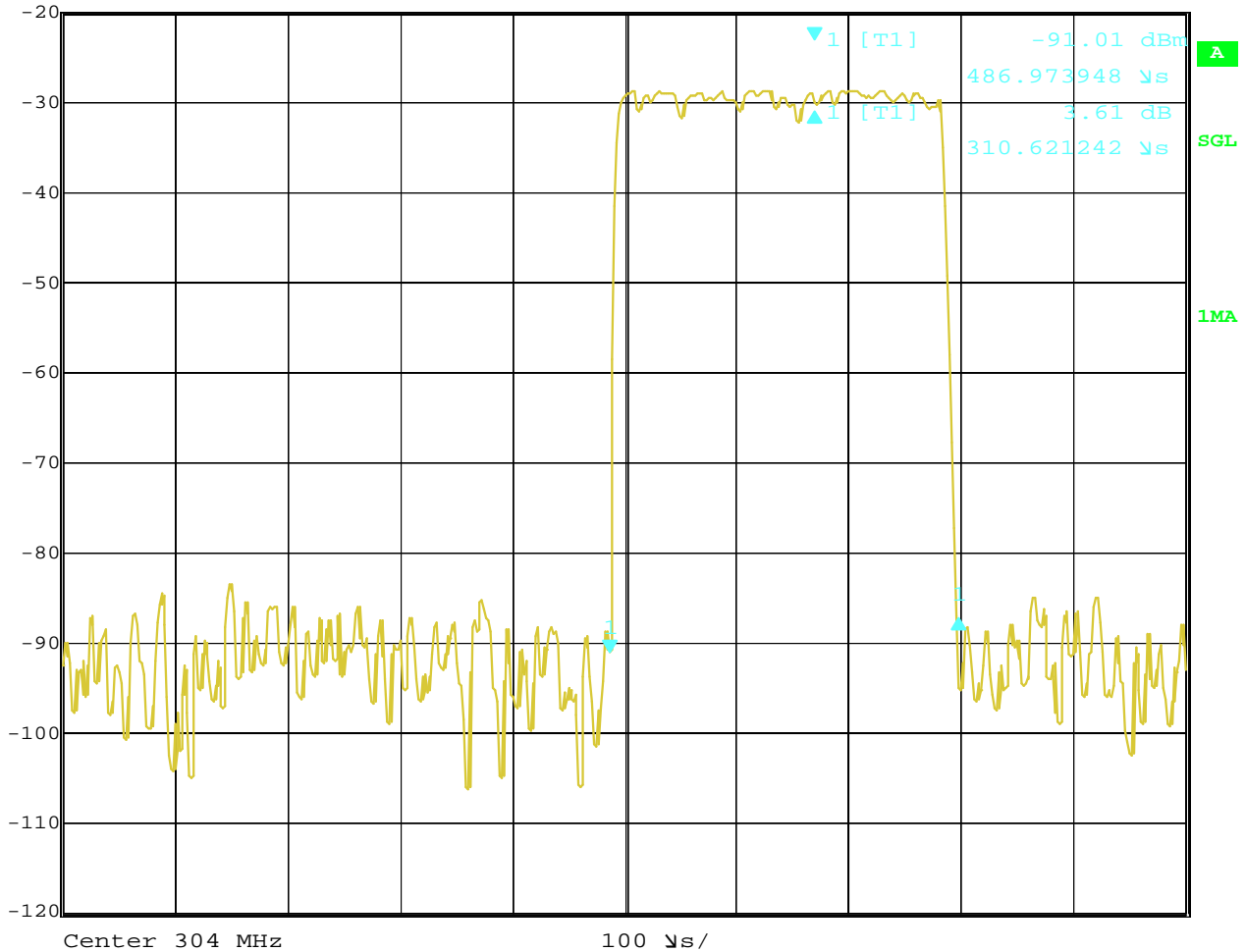
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T<sub>on1</sub>



	Delta 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	3.61 dB	VBW	300 kHz		
-20 dBm	310.621242 $\mu$ s	SWT	1 ms	Unit	dBm



Date: 19.JAN.2019 10:41:18

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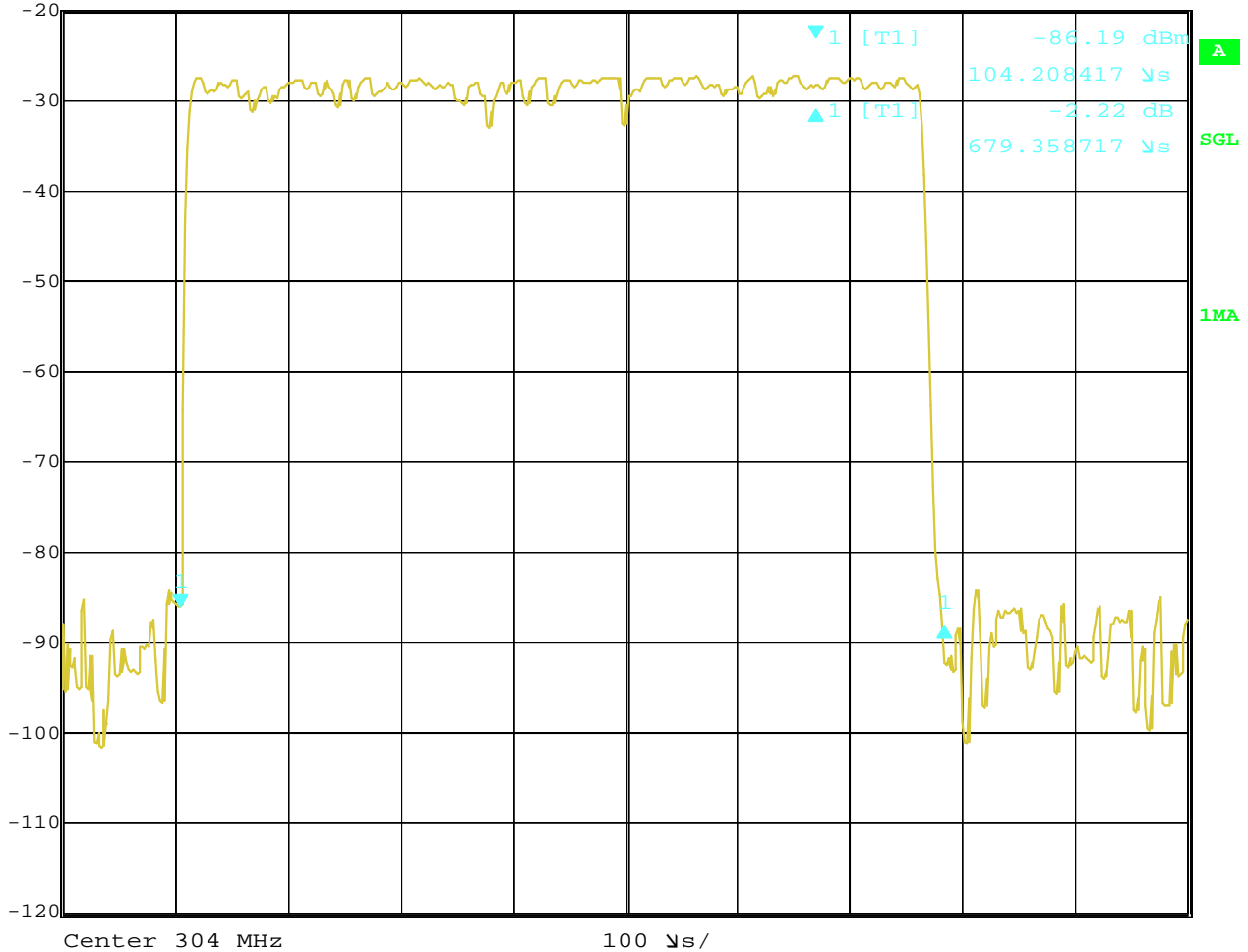




T<sub>on2</sub>



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	10 dB
-20 dBm	-2.22 dB	VBW	300 kHz	Unit	dBm
	679.358717 $\mu$ s	SWT	1 ms		



Date: 19.JAN.2019 10:42:15

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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 Printed antenna which is built-in. The antenna gain is 0dBi. So it meets the requirement of 15.203

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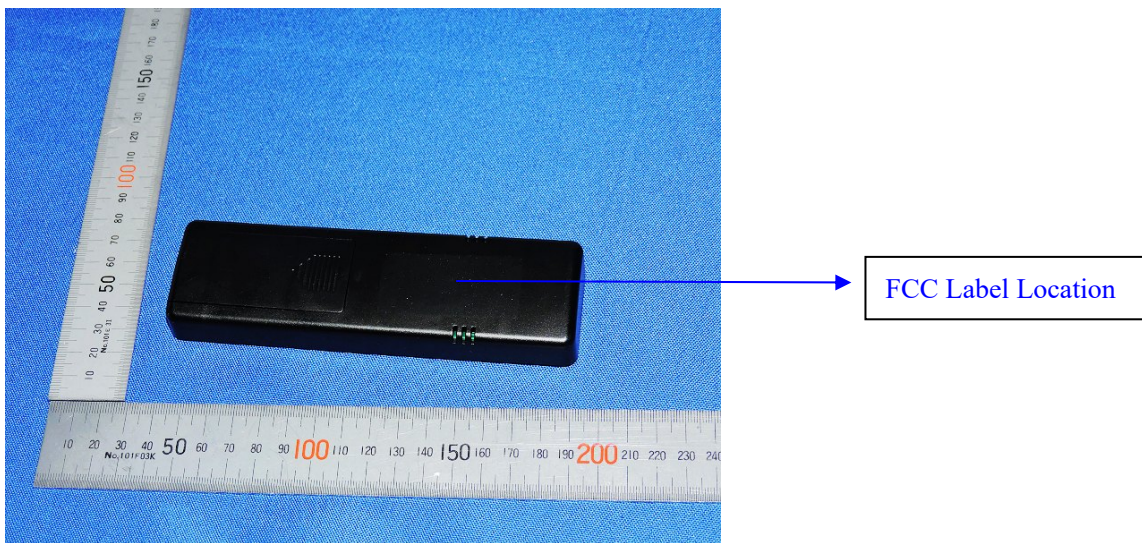


## 11.0 FCC ID Label

**FCC ID: A25-TX031**

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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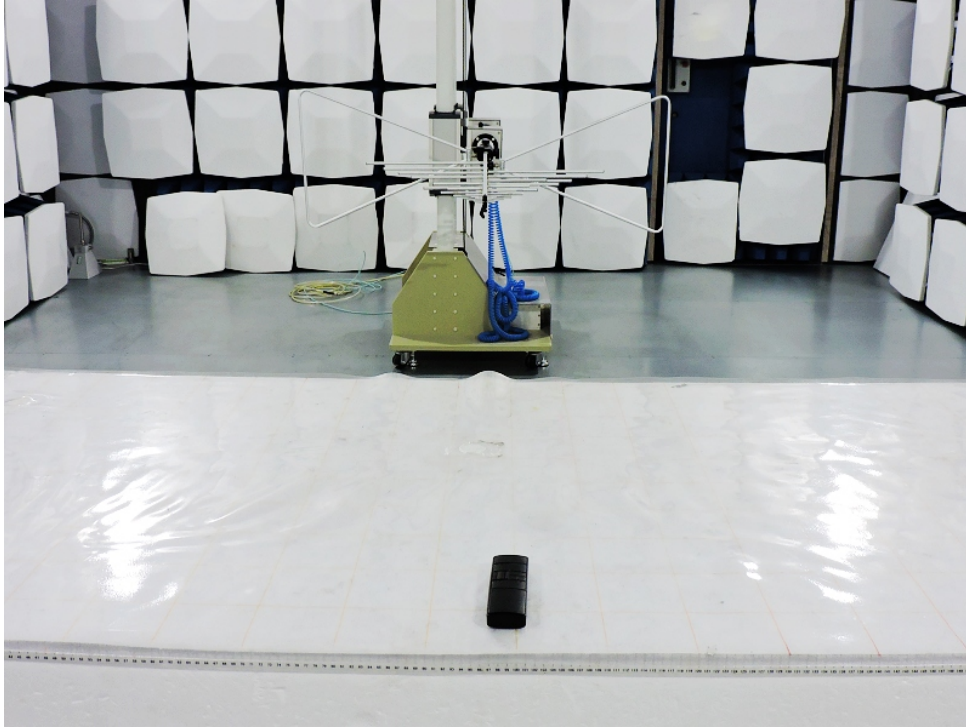
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**12.0. Photo of testing**

12.1 Conducted test View—N/A

12.2 Radiated emission test view

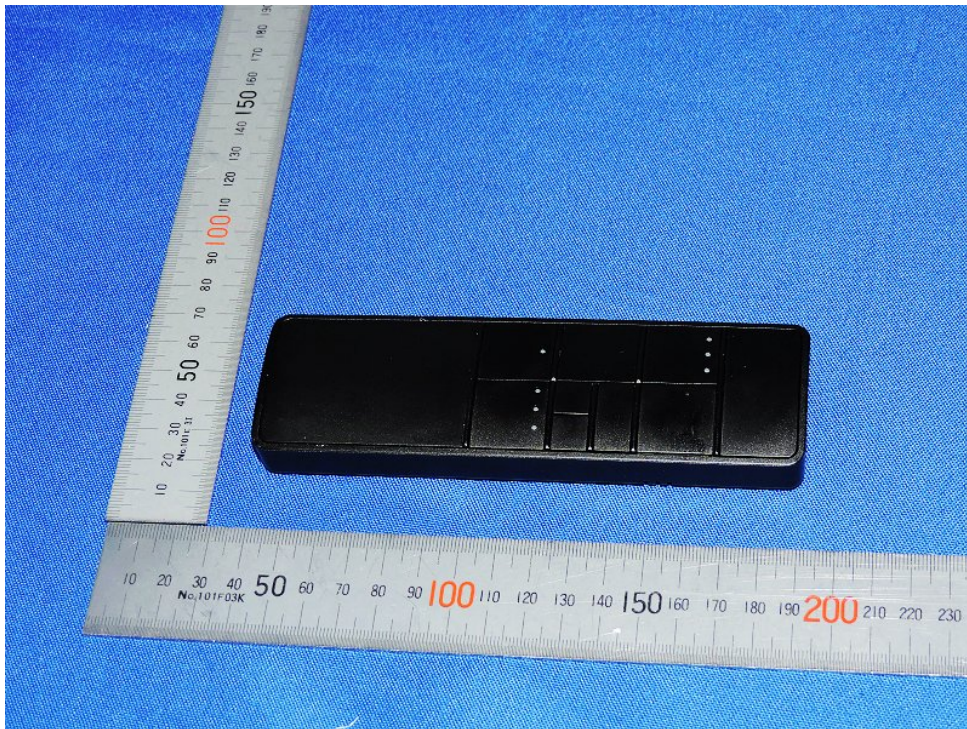


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Photo for the EUT

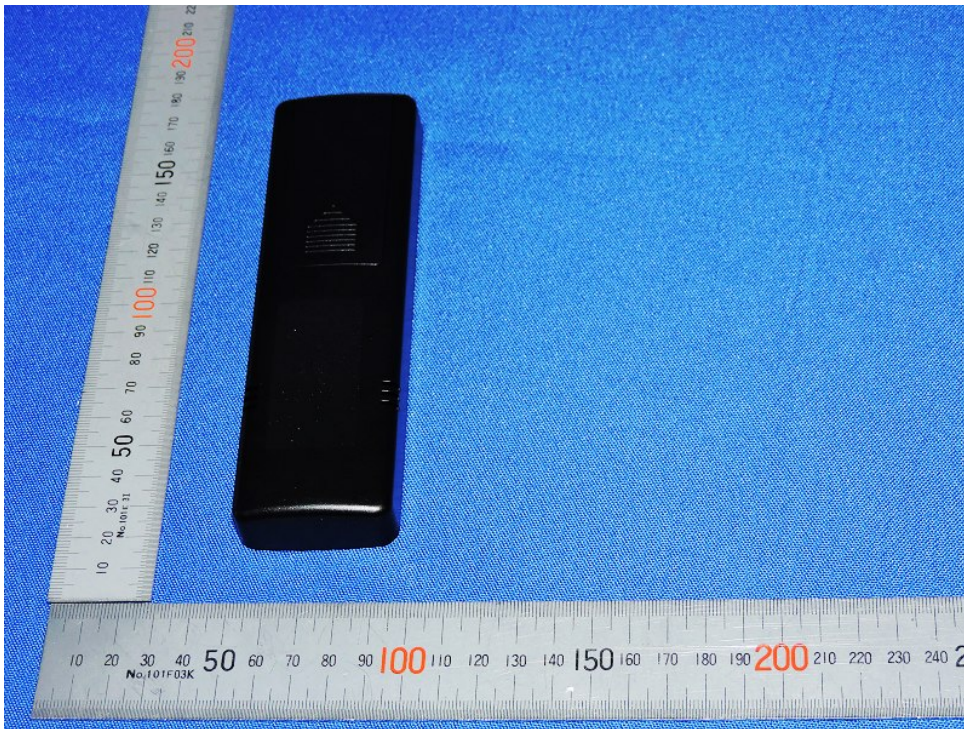


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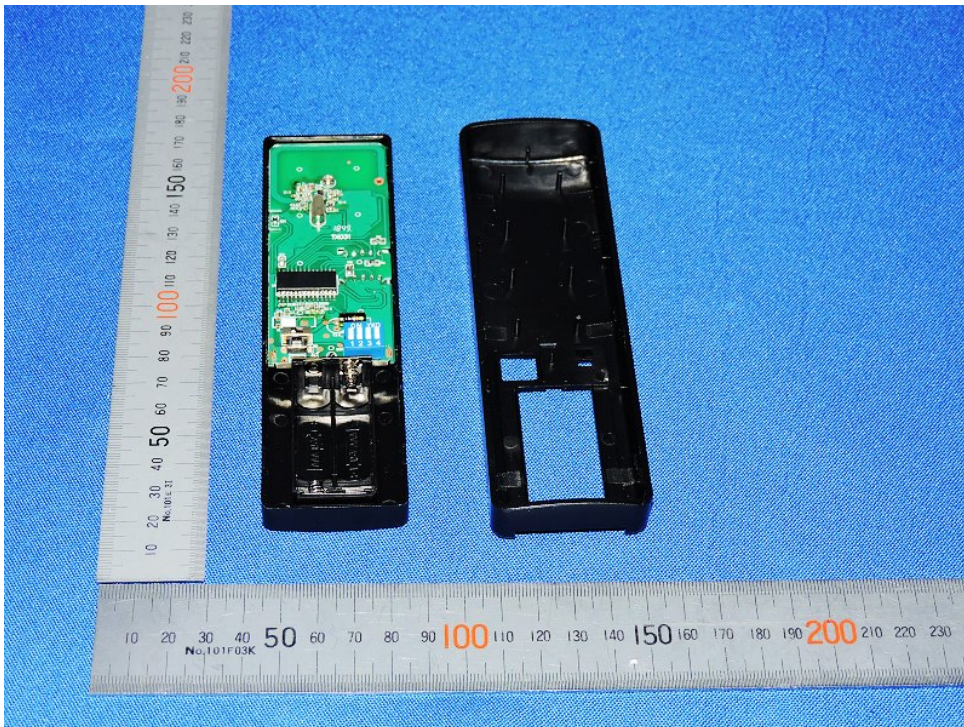


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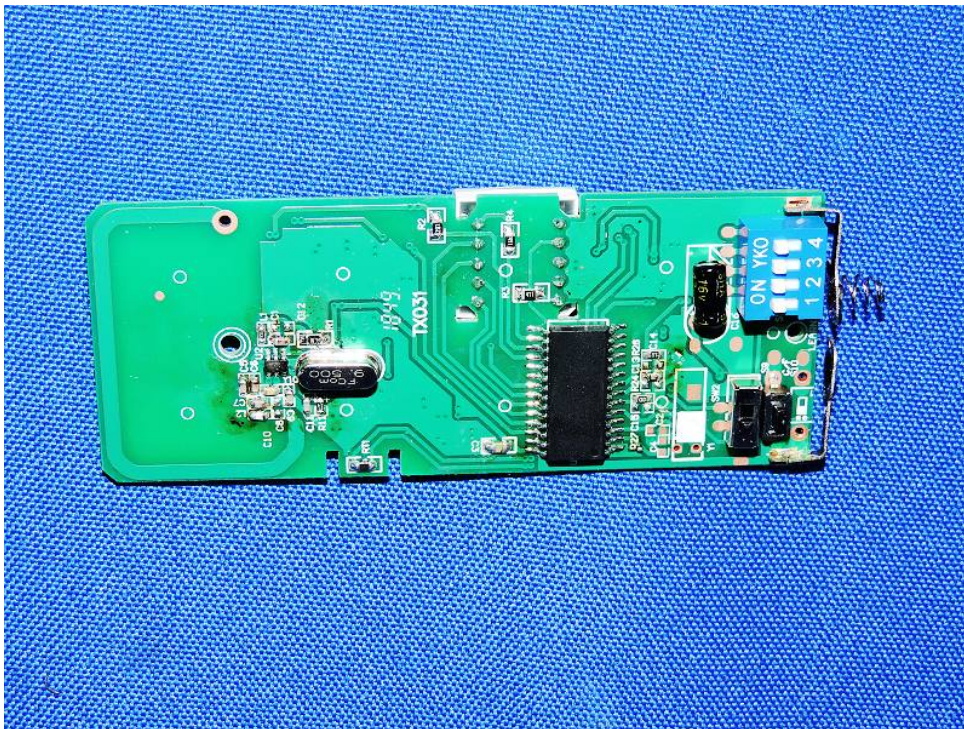
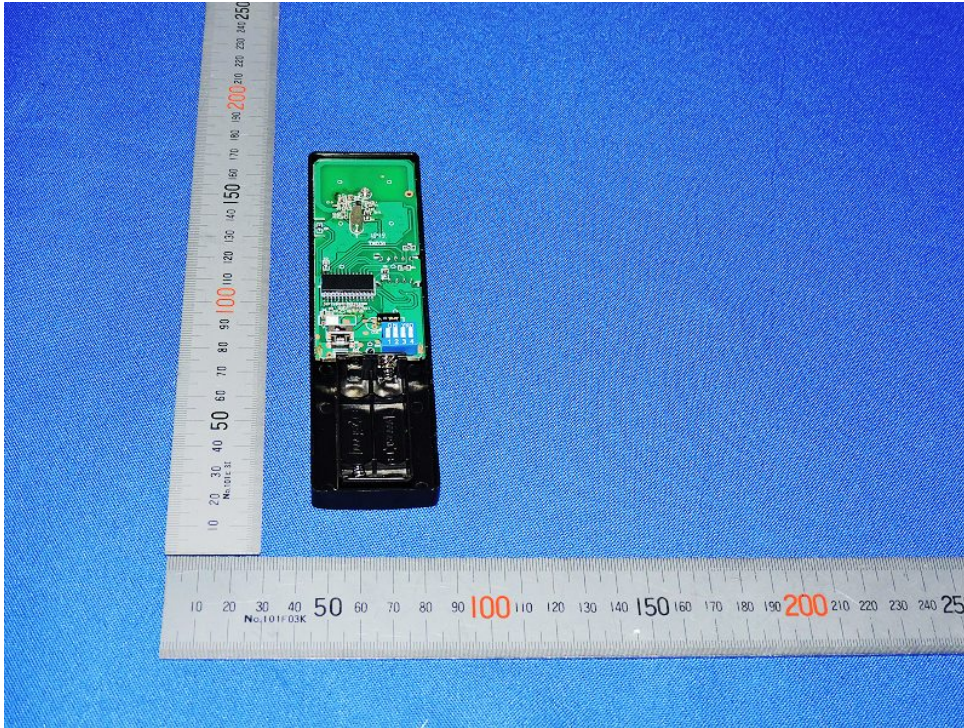


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Photo for the EUT



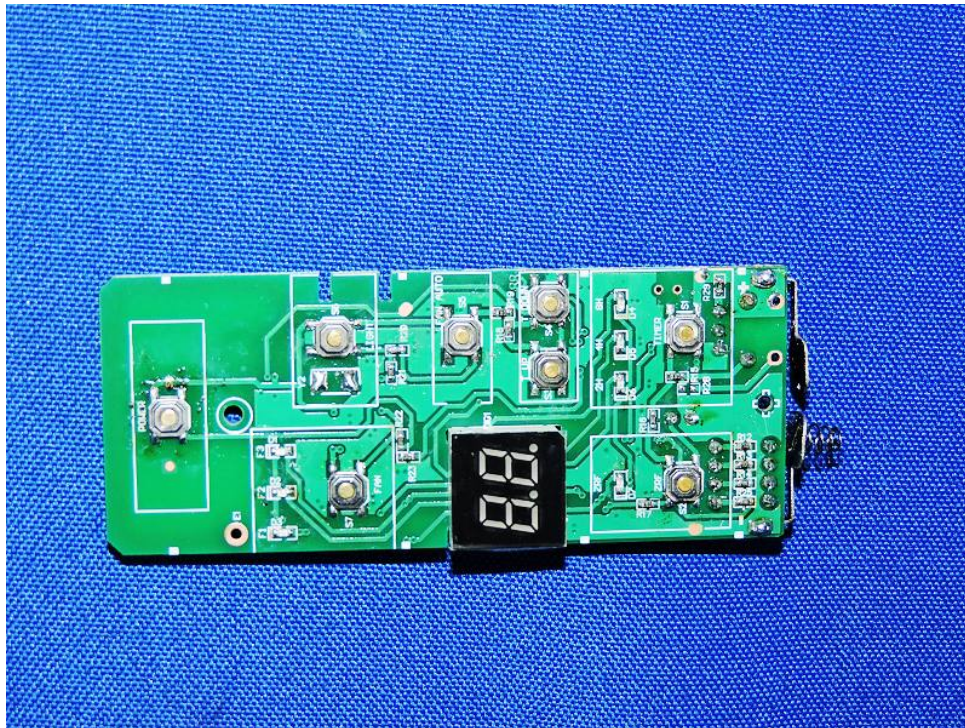
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Photo for the EUT



**End of the report-**

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