



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

$T_p = 51.263\text{ms}$

$T_{on1} = 0.371 \times 13 = 4.823(\text{ms})$

$T_{on2} = 1.162 \times 12 = 13.944(\text{ms})$

$\text{Duty cycle} = T_{on}/T_p = 18.767/51.263 = 0.3661 = 36.61\%$

$\text{Duty cycle factor} = 20 * \log(\text{duty cycle}) = 20 * \log(0.3661) = -8.73\text{dB}$

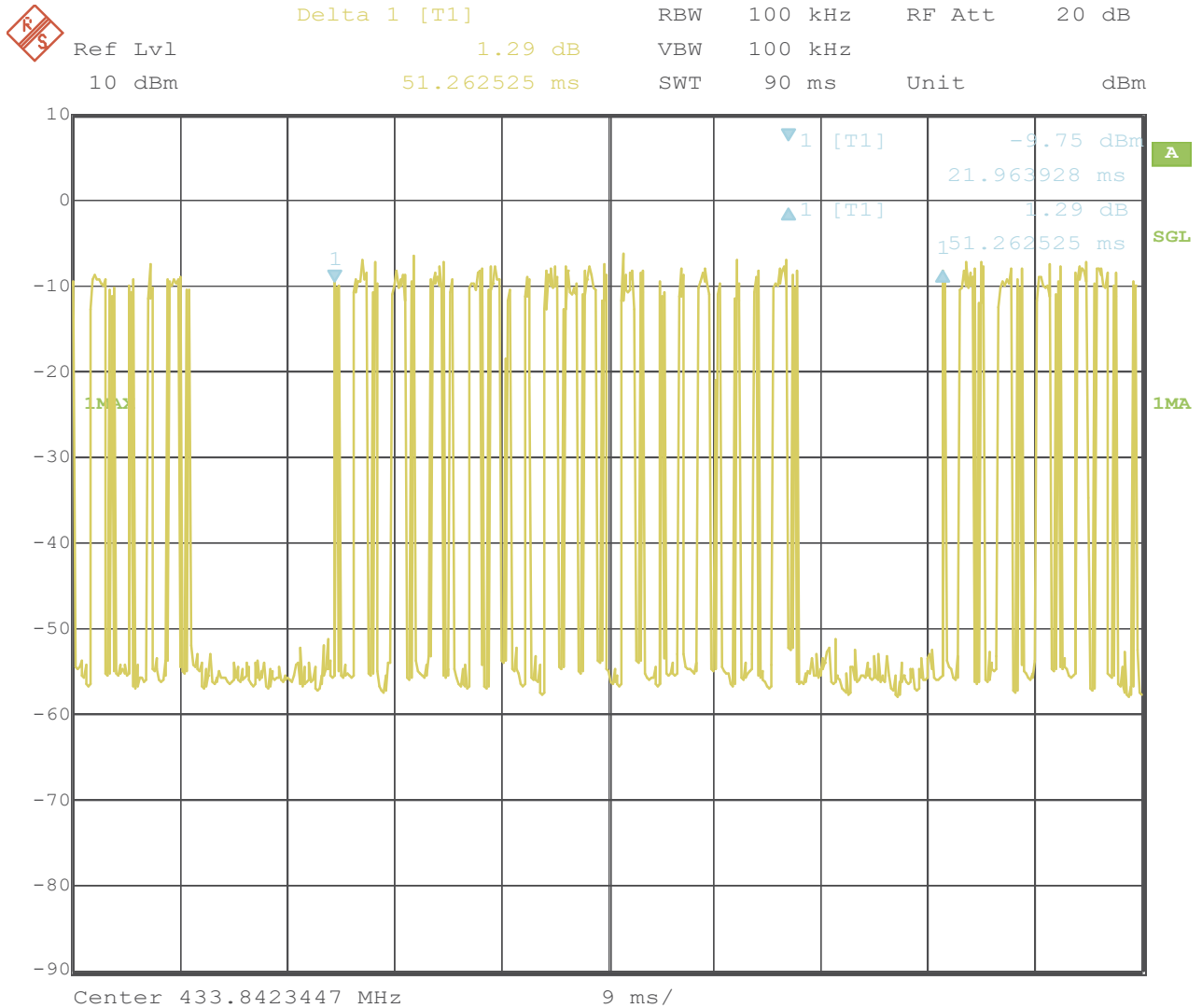
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Testing Plots:

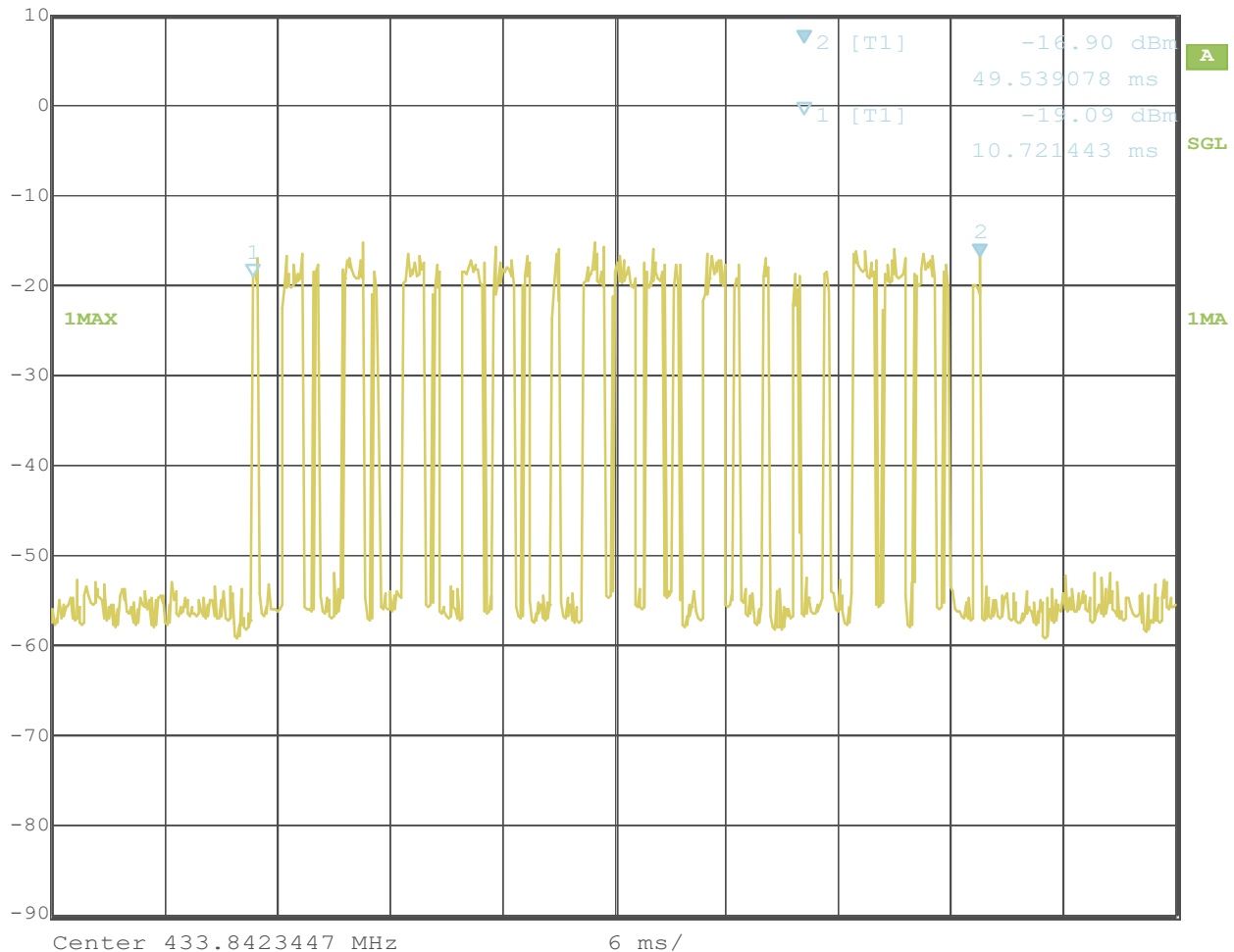


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Marker 2 [T1] RBW 100 kHz RF Att 20 dB
Ref Lvl -16.90 dBm VBW 100 kHz
10 dBm 49.539078 ms SWT 60 ms Unit dBm



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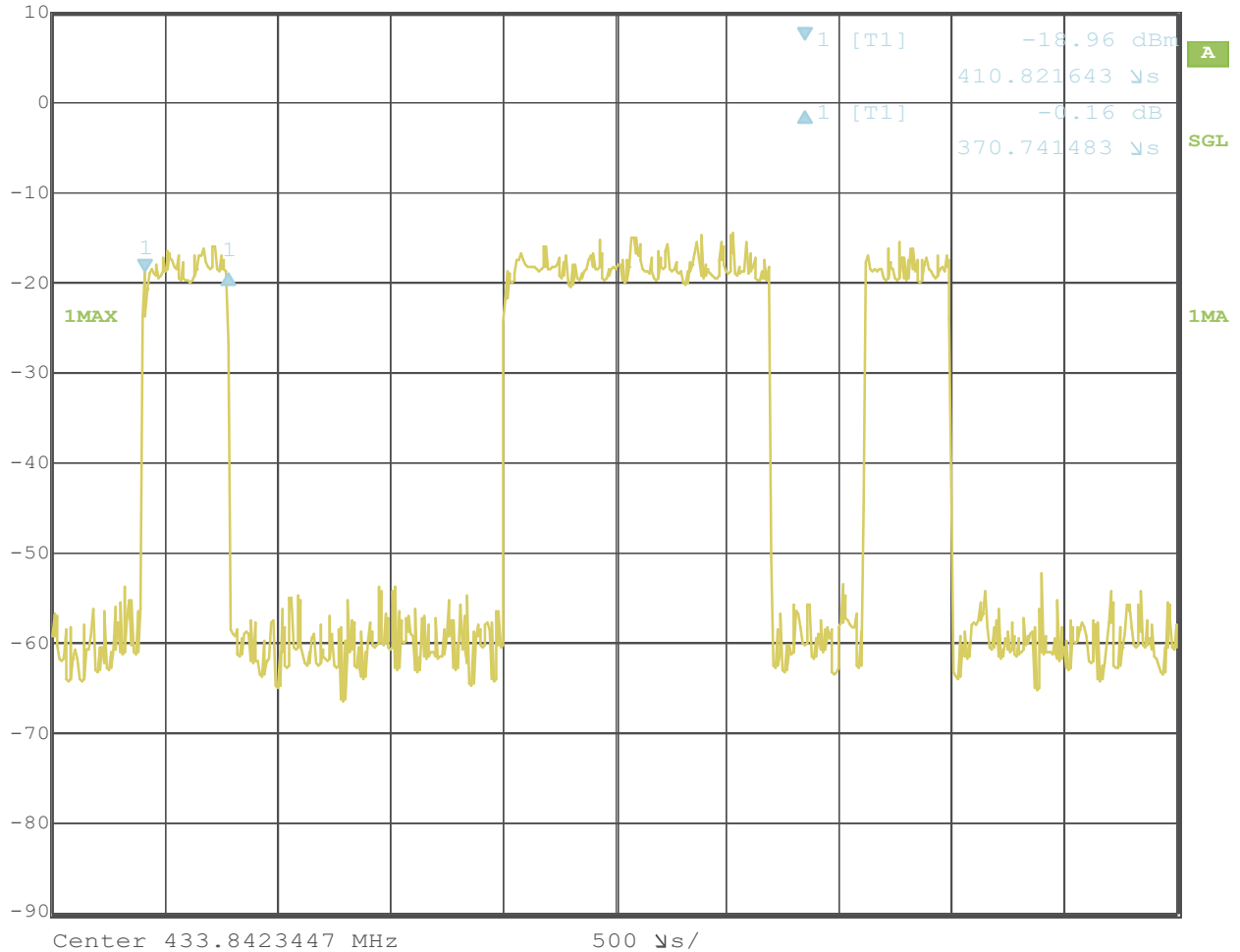
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T_{on1}



Delta 1 [T1] RBW 100 kHz RF Att 20 dB
Ref Lvl -0.16 dB VBW 100 kHz
10 dBm 370.741483 μ s SWT 5 ms Unit dBm



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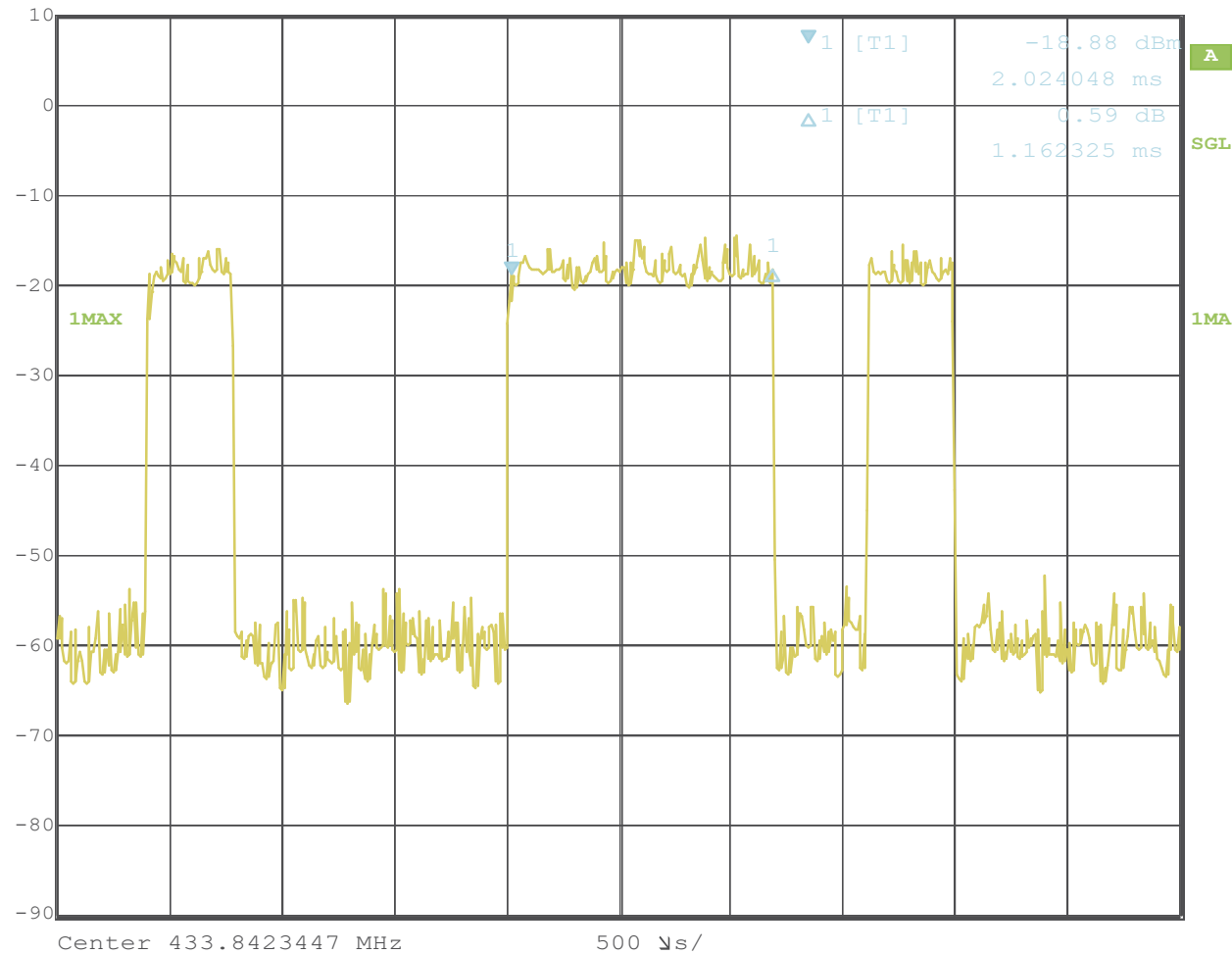
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T_{on2}



Ref Lvl	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-18.88 dBm	VBW	100 kHz		
	2.024048 ms	SWT	5 ms	Unit	dBm



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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 integral antenna which is built-in. The antenna gain is 5.0dBi. So it meets the requirement of 15.203

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11.0 FCC ID Label

FCC ID: 2ANIV-PT-16GY

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:



FCC Label 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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Photo for the EUT



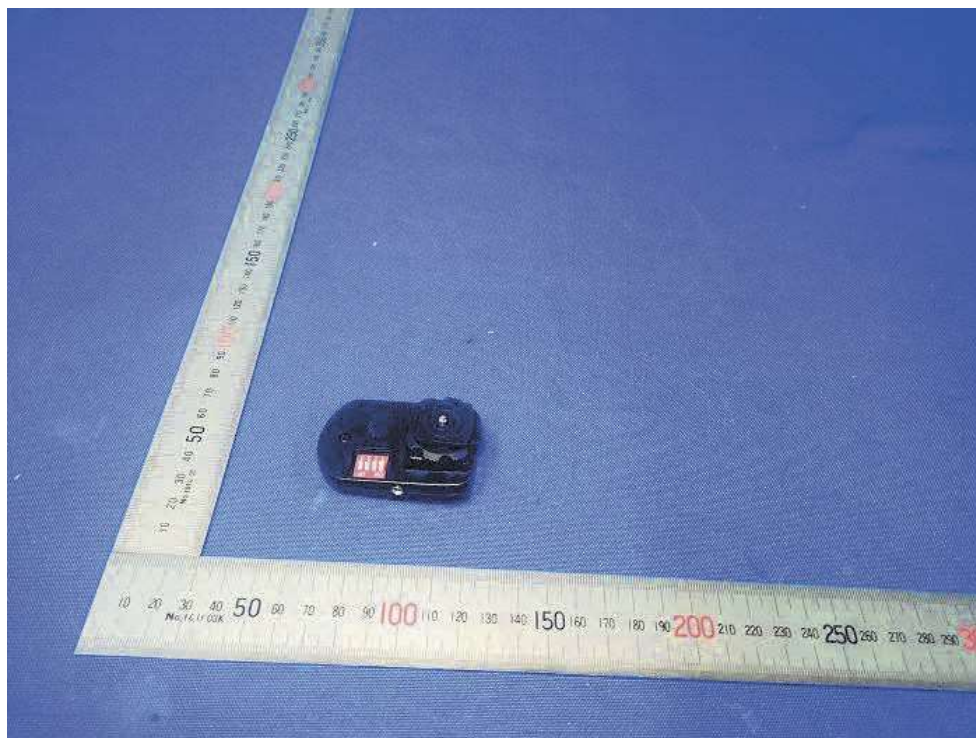
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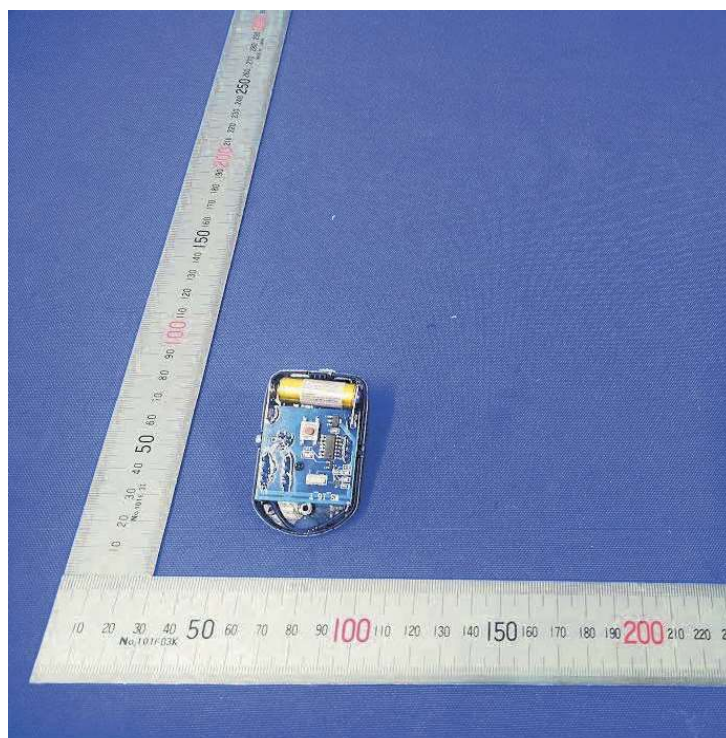
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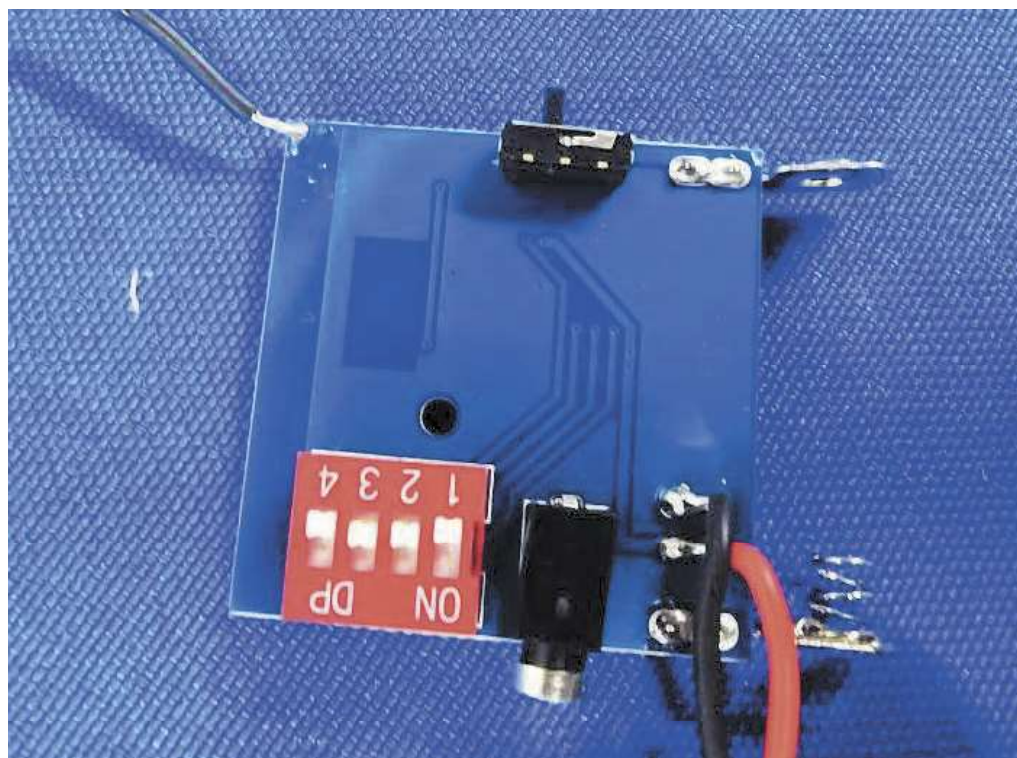
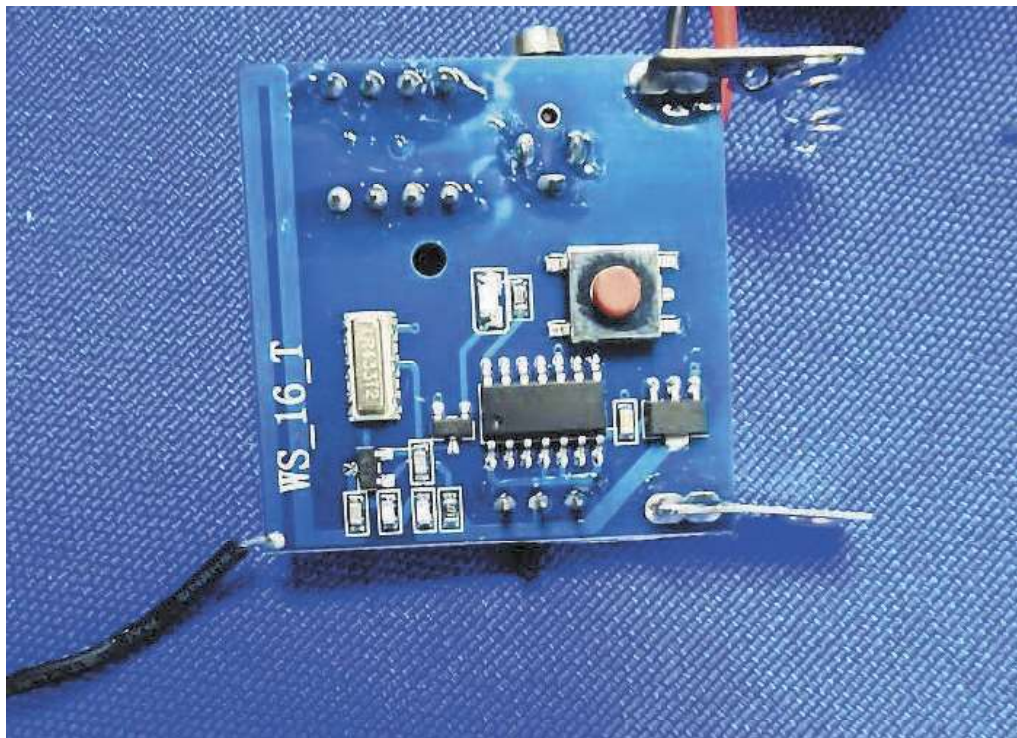
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Photo for the EUT



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--End of the report--

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