

TEST REPORT

Report Number	90291-25-72-25-PP001
Date of issue	Aug. 15, 2025
Prepared by (+signature).....	Pale
Reviewer (+signature).....	Duke
Approved by (+signature)	Jason
Testing Laboratory name	SLG-CPC Testlaboratory Co., Ltd.
Address	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China
Applicant's name	TECHNOMATE(CAMBODIA) TECHNOLOGY CO.,LTD.
Address	GIGA (SVAY RIENG) SPECIAL ECONOMIC ZONE, NATIONAL ROAD#1, DEUM POU VILLAGE, KANDEING RAY COMMUNE, SVAY TEP DISTRICT, SVAY RIENG PROVINCE, CAMBODIA
Manufacturer's name	TECHNOMATE(CAMBODIA) TECHNOLOGY CO.,LTD.
Address	GIGA (SVAY RIENG) SPECIAL ECONOMIC ZONE, NATIONAL ROAD#1, DEUM POU VILLAGE, KANDEING RAY COMMUNE, SVAY TEP DISTRICT, SVAY RIENG PROVINCE, CAMBODIA
Factory's name	TECHNOMATE(CAMBODIA) TECHNOLOGY CO.,LTD.
Address	GIGA (SVAY RIENG) SPECIAL ECONOMIC ZONE, NATIONAL ROAD#1, DEUM POU VILLAGE, KANDEING RAY COMMUNE, SVAY TEP DISTRICT, SVAY RIENG PROVINCE, CAMBODIA
Standard(s)	FCC 1.1310: §1.1307(b)
Test item description	Wireless remote control
Trade Mark	N/A
Model/Type reference	JJX-44J-RF433 (Refer to section 1.1 for details)
FCC ID	2BRMMTTC-DC3V-2508
Date of receipt of test item	Aug. 01, 2025
Date (s) of performance of test:	Aug. 02, 2025 - Aug. 14, 2025
Summary of Test Results	Pass

The Summary of Test Results based on a technical opinion belongs to the standard(s).

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Modified History

Report No.	Revision Date	Summary
90291-25-72-25-PP002	Aug. 15, 2025	Original Report

1. EUT Specification

Product:	Wireless remote control
Model Number:	<p>JJX-44J-RF433</p> <p>INV-12VAC30VDC, UHTT-18L/2F-M, UHTT-24L/4F-M, UHTT-30L/5F-M, UHTT-30LMF-M, UHTT-36L/4F-MUHTT-36L/6F-M, UHTT-48L/8F-M, UHTT-54L/6F-M, UHTT-54L/9F-M, UHTT-60L/2F-M, CY-R-18L-M-2-T, CY-R-24L-M4T, CYR-30L-M-5-T, CY-R-30L-M-1-T, CYR-36L-M-4-T, CY-R-36L-M 6-T, CY-R-48L-M-8-T, CY-R-54L-M-6-T, CYR-54L-9-T, CY-R-60L-M-2-T</p> <p>UHTT-AL/BF-M-D, CY-R- AL-M-B-D A=1-100, represents Number of lamps, B=blank or 1-9, represents Number of parallel circuits M=A、B or M, represents the color of lighting string, "A" may be replaced by "B" or "M". represents the color of lighting string. "A" represents LED lamp color. red, yellow or orange; "B" represents LED lamp color. blue, green, white, warm white, pink or violet, "M" is multi-color. D= blank or M5/C3/C6/C9/C30/F8. M5/03c6/c9/c30/f8 represents type of reflector, Blank represents provided without reflector</p> <p>(Note: All models are based on the same remote control. The different model names are just for the lamp model. Here we choose JJX-44J-RF433 as the EUT for the test)</p>
Power supply:	<input checked="" type="checkbox"/> DC 3V
Modulation:	ASK
Frequency Range:	433.92 MHz
Max Transmit Power:	79.17 dBuV/m@3m
Antenna Gain:	-0.2 dBi
Antenna:	PCB Antenna

2. Test Requirement

RF EXPOSURE EVALUATION

EUT Specification

EUT	Wireless remote control
Model Number	<p>JJX-44J-RF433</p> <p>INV-12VAC30VDC, UHTT-18L/2F-M, UHTT-24L/4F-M, UHTT-30L/5F-M, UHTT-30LMF-M, UHTT-36L/4F-MUHTT-36L/6F-M, UHTT-48L/8F-M, UHTT-54L/6F-M, UHTT-54L/9F-M, UHTT-60L/2F-M, CY-R-18L-M-2-T, CY-R-24L-M4T, CYR-30L-M-5-T, CY-R-30L-M-1-T, CYR-36L-M-4-T, CY-R-36L-M 6-T, CY-R-48L-M-8-T, CY-R-54L-M-6-T, CYR-54L-9-T, CY-R-60L-M-2-T</p> <p>UHTT-AL/BF-M-D, CY-R- AL-M-B-D A=1-100, represents Number of lamps, B=blank or 1-9, represents Number of parallel circuits M=A、 B or M, represents the color of lighting string, "A" may be replaced by "B" or "M". represents the color of lighting string. "A" represents LED lamp color. red, yellow or orange; "B" represents LED lamp color. blue, green, white, warm white, pink or violet, "M" is multi-color. D= blank or M5/C3/C6/C9/C30/F8. M5/03c6/c9/c30/f8 represents type of reflector, Blank represents provided without reflector</p> <p>(Note: All models are based on the same remote control. The different model names are just for the lamp model. Here we choose JJX-44J-RF433 as the EUT for the test)</p>
FCC ID	2BRMMTTC-DC3V-2508
Antenna gain (Max)	-0.2 dBi
Operation Frequency	433.92MHz
Input Rating	DC 3V by battery
Classification Per Stipulated Test Standard	§15.231, §2.1093
Kind of Device: REMOTE CONTROL	
Modulation	ASK
Max. output power	79.17 dBuV/m (0.000025 W)

Test Requirement:

According to §15.231 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

Transmit Frequency (MHz)	Mode	Field strength (dBuV/m)	Measured Power (dBm)	tune up tolerance (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
433.92	ASK	79.17	-15.99	±1	-14.99	0.004178	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for 433M antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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