

RF TEST REPORT

Report No.: SHATBL2608064W02

Applicant : Satellite Electronic(Zhong Shan)Ltd.

Product Name : CEILING FAN REMOTE CONTROL

Brand Name : N/A

Model Name : TRD078H1Z

Series Model : N/A

FCC ID : 2AQZU-18086

Test Standard : 47 CFR Part 2.1093

Date of Sample Arrival : Aug.27, 2026

Date of Test : Aug.27, 2026~Aug.31, 2026

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	Aug.31, 2026	SHATBL2608064W02	ALL	Initial Release

Declaration Of Report

1. The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR Part 2.1093. And it is applicable only to the tested sample identified in the report.
2. This report shall not be reproduced except in full, without the written approval of ATBL, this document only be altered or revised by ATBL, personal only, and shall be noted in the revision of the document.
3. The general information of EUT in this report is provided by the customer or manufacture, ATBL is only responsible for the test data but not for the information provided by the customer or manufacture.
4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.
5. In this report, '☐' indicates that EUT does not support content after '☐', and '☑' indicates that it supports content after '☑'

1. General Description

1.1. Applicant

Name : Satellite Electronic(Zhong Shan)Ltd.

Address : No.8, Chuang Ye Road, Torch Development Zone, Zhongshan, Guangdong, China

1.2. Manufacturer

Name : Satellite Electronic(Zhong Shan)Ltd.

Address : No.8, Chuang Ye Road, Torch Development Zone, Zhongshan, Guangdong, China

1.3. Factory

Name : CHUNGGEAR INDUSTRIAL CO., LTD.

Address : No.12, Jingke 8th Rd., Nantun Dist., Taichung City 40852, Taiwan (R.O.C.)

1.4.General Information of EUT

General Information	
Product Name	CEILING FAN REMOTE CONTROL
Model Name	TRD078H1Z
Series model	N/A
Model Difference	N/A
Operation Frequency	433.92MHz
Modulation Type	ASK
Power supply	AC 120V
Battery	N/A
Hardware Version	V1.0
Software Version	TRD078H1Z V1.0
Connecting I/O Port(s)	TRD078H1Z 260805

Remark:

The above information of EUT was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5.Laboratory Information

Company Name	:	Shanghai ATBL Technology Co., Ltd.
Address	:	5-6/F., Unit 1, No 8, Free Trade One Life Science No. 160, Basheng Road, Pudong New District, Shanghai, China
Telephone	:	+86(0)21-51298625
FCC-Registration No	:	485917
Designation Number	:	CN1306
A2LA-Lab Cert. No.	:	6184.01
CNAS Number	:	CNAS L14531
ISED Designation Number	:	27371
CAB identifier	:	CN0116

1.6.Description of Available Antennas

Antenna Type	Antenna	Frequency Band (MHz)	Antenna Gain (dBi)
PCB Antenna	Antenna 0	433.92	-6

2. FCC 47CFR §2.1093 Requirement

2.1.Test Standards

According to §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.

According to §1.1310 and §2.1093 RF exposure requirement KDB447498 v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

2.2.Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.²² The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.²³ "

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

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- 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.

2.3.MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

2.4. Tune up power

Modulation Type	Frequency Band (MHz)	Maximum Conducted Power (dBm)	Maximum Target power with tune up (dBm)	Antenna Port
ASK	433.92	-21.1	±1	Antenna 0

Note: dBm=dBuV/m-95.2=68.10-95.2= -27.1dBm

Conducted power=EIRP- ANT Gain=-27.1-(-6)=-21.1dBm

2.5.Test Result

Modulation Type	f (MHz)	Antenna Distance (mm)	Max.RF output power (including tune-up tolerance)		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
ASK	433.92	5	-20.1	0.00977	0.00129 <3	Yes

Note:

1. If nothing else, the report will only record the worst power.
2. The Maximum power is less than the limit, complies with the exemption requirements.

*****END OF THE REPORT*****