

RF Exposure Evaluation Report

Product : Fan&Light Remote Control
Trade mark : N/A
Model/Type reference : See section 4.2
Serial Number : N/A
Report Number : EED32Q80727302
FCC ID : 2A9T3-RF590
Date of Issue : Oct. 12, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

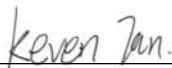
Prepared for:

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Oct. 12, 2024



Check No.: 1009290524

2 Version

Version No.	Date	Description
00	Oct. 12, 2024	Original

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4 General Information

4.1 Client Information

Applicant:	Shenzhen C&D Electronics Co., Ltd.
Address of Applicant:	9/F, Tower 9A, Baoneng Science & Technology Park, 1Qingxiang Road, Longhua District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen C&D Electronics Co., Ltd.
Address of Manufacturer:	9/F, Tower 9A, Baoneng Science & Technology Park, 1Qingxiang Road, Longhua District, Shenzhen, Guangdong, China
Factory:	Huizhou C&D Industry Co., Ltd
Address of Factory:	C&D Industrial Park, Liantangmian, Sanhe Str., Huiyang, Huizhou (516213), China.

4.2 General Description of EUT

Product Name:	Fan&Light Remote Control
Model No.(EUT):	RF590B, RF590*(The * in the model number stands for any of the 26 letters of A-Z, representing a different customer number)
Test Model No.:	RF590B
Trade Mark:	N/A

4.3 Product Specification subjective to this standard

Frequency Range:	433MHz
Modulation Type:	Portable
Test Power Grade:	Default
Antenna Type:	PCB Antenna
Antenna Gain:	-23.17dBi
Power Supply:	Battery: DC 3V
Sample Received Date:	Jul. 01, 2024
Sample tested Date:	Jul. 01, 2024 to Jul. 08, 2024
Remark:	Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: RF590B, RF590*(The * in the model number stands for any of the 26 letters of A-Z, representing a different customer number) Only the model RF590B was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, only the model name, keys' symbols, logos and software are different for marketing requirements.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0$$

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 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 4.1 f) is applied to determine SAR test exclusion.

5.1.2 EUT RF Exposure Evaluation

Type	Frequency (MHz)	Field strength (max)(dBuV/m)	Maximum Tune-up (dBm)	Maximum Tune-up (mW)	Calculating data	Limit	Result
OOK	433.92	81.18	-13	0.050	0.00659	3.0	Pass

Note:

dBuV/m to dBm, $\text{dBm} = \text{dBuV/m} - 95.2$

①Note: The exposure evaluation safety distance is 5mm.;

②The test data please refer to the report of EED32Q80727301 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***