

RF Exposure Evaluation Report

Product : RV Door Lock
Trade mark : N/A
Model/Type reference : GS-YS-RVL-01, GS-YS-RVL-02
Serial Number : N/A
Report Number : EED32Q81346002
FCC ID : 2BKVT-GSYSRVL0102
Date of Issue : Oct. 31, 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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2 Version

Version No.	Date	Description
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4 General Information

4.1 Client Information

Applicant:	Zhuhai GuanSeng Electronics Technology Co., Ltd.
Address of Applicant:	3rd Floor, Room 3104, Building F, No. 3047, Qianshan Mingzhu South Road, Zhuhai City, Guangdong Province, China
Manufacturer:	Zhuhai GuanSeng Electronics Technology Co., Ltd.
Address of Manufacturer:	3rd Floor, Room 3104, Building F, No. 3047, Qianshan Mingzhu South Road, Zhuhai City, Guangdong Province, China
Factory:	Zhuhai GuanSeng Electronics Technology Co., Ltd.
Address of Factory:	3rd Floor, Room 3104, Building F, No. 3047, Qianshan Mingzhu South Road, Zhuhai City, Guangdong Province, China

4.2 General Description of EUT

Product Name:	RV Door Lock
Model No.(EUT):	GS-YS-RVL-01, GS-YS-RVL-02
Test Model No.:	GS-YS-RVL-01
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:	0 dBi
Power Supply:	Battery: DC 3V
Sample Received Date:	Sep. 03, 2024
Sample tested Date:	Sep. 09, 2024 to Oct. 23, 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.: GS-YS-RVL-01, GS-YS-RVL-02 Only the model GS-YS-RVL-01 was tested. Their electrical circuit design, layout, components used and internal wiring are identical, Only the shape of the appearance is different.

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)

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

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	83.11	-11	0.079	0.01041	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 EED32Q81346001 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 ***