

# RF Exposure Evaluation Report

**Applicant:** Remote Tech LLC

**Address of Applicant:** 310 ALDER RD, DOVER DE 19904 USA

## Equipment Under Test (EUT)

**Product Name:** Keyless Transmitter

**Model No.:** RT-NS2-AB, RT-NS2-BB

**FCC ID:** 2AOKM-NIS-V2B

**Applicable standards:** FCC CFR Title 47 Part 2 Subpart J Section 2.1093

**Date of sample receipt:** 19 Apr., 2022

**Date of Test:** 20 Apr., to 10 May, 2022

**Date of report issue:** 11 May, 2022

**Test Result:** PASS\*

Authorized Signature:



Bruce Zhang

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 2 Version

Version No.	Date	Description
00	11 May, 2022	Original

Tested by: Janet Wei  
**Test Engineer**

Date: 11 May, 2022

Reviewed by: Winner Zhang  
**Project Engineer**

Date: 11 May, 2022

### 3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION .....	2
3 CONTENTS .....	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION .....	4
4.2 GENERAL DESCRIPTION OF E.U.T. ....	4
4.3 OPERATING MODES .....	4
4.4 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD .....	4
4.5 LABORATORY FACILITY .....	4
4.6 LABORATORY LOCATION .....	4
5 TECHNICAL REQUIREMENTS SPECIFICATION IN FCC CFR TITLE 47 PART 2.1093.....	5
5.1 LIMITS .....	5
5.2 RESULT .....	5
5.3 CONCLUSION .....	5

## 4 General Information

### 4.1 Client Information

Applicant:	Remote Tech LLC
Address:	310 ALDER RD, DOVER DE 19904 USA
Manufacturer:	Remote Tech LLC
Address:	310 ALDER RD, DOVER DE 19904 USA

### 4.2 General Description of E.U.T.

Product Name:	Keyless Transmitter
Model No.:	RT-NS2-AB, RT-NS2-BB
Operation Frequency:	315 MHz
Modulation technology:	ASK
Antenna Type:	PCB Antenna
Antenna gain:	0 dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 4.3 Operating Modes

Operating mode	Detail description
ASK mode	Keep the EUT in continuously transmitting in ASK mode

### 4.4 Additions to, deviations, or exclusions from the method

No
----

### 4.5 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li> <b>● FCC - Designation No.: CN1211</b>            JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.         </li> <li> <b>● ISED – CAB identifier.: CN0021</b>            The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.         </li> <li> <b>● CNAS - Registration No.: CNAS L15527</b>            JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.         </li> <li> <b>● A2LA - Registration No.: 4346.01</b>            This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a> </li> </ul>
--

### 4.6 Laboratory Location

<p>JianYan Testing Group Shenzhen Co., Ltd.          Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.          Tel: +86-755-23118282, Fax: +86-755-23116366          Email: info-JYTee@lets.com, Website:<a href="http://jyt.lets.com">http://jyt.lets.com</a></p>
---

## 5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1093

### 5.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  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  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  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

### 5.2 Result

According to the calculation formula of power :

$$\text{EIRP} = P * G = (E * d)^2 / 30$$

Where:

P = transmitter output power in watts,

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator (unitless),

E = electric field strength in V/m, ---  $10((\text{dBuV/m})/20)/106$ ,

d = measurement distance in meters (m)---3m,

So,

$$P = (E * d)^2 / 30 * G$$

Frequency (MHz)	Maximum field strength @3m ( dBuV/m)	Maximum field strength @3 m (V/m)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (m)	Output power (mW)
315	64.16	0.002	0	1	3	0.0008

Thus, Worse case as below:

Frequency (MHz)	Max Output power (mW)	Min test distance (mm)	Result	Limit of 10-g SAR test exclusion thresholds
315	0.0008	5	0.0001	7.5

### 5.3 Conclusion

Cuz  $0.0001 < 7.5$  for 10-g SAR, the device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----