



# RF Exposure Evaluation Declaration

Product Name : Level Lock  
Model No. : # A1 SHORT /# A2 LONG  
FCC ID : 2ATIO1

Applicant : California Things  
Address : 650 Main Street Redwood City, CA 94063

Date of Receipt : Apr. 25, 2019  
Test Date : Apr. 26, 2019~ May. 20, 2019  
Issued Date : May. 24, 2019  
Report No. : 1942175R-RF-US-P20V01  
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by A2LA or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing & Certification (Suzhou) Co., Ltd.

# Test Report Certification

Issued Date : May. 24, 2019

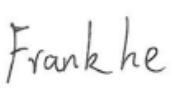
Report No. : 1942175R-RF-US-P20V01

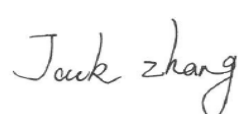


Product Name : Level Lock  
Applicant : California Things  
Address : 650 Main Street Redwood City, CA 94063  
Manufacturer : California Things  
Address : 650 Main Street Redwood City, CA 94063  
Model No. : # A1 SHORT /# A2 LONG  
FCC ID : 2ATIO1  
EUT Voltage : DC 3V  
Test Voltage : AC 120V/60Hz  
Applicable Standard : KDB 447498D01V06  
FCC Part1.1310

Test Result : Complied  
Performed Location : DEKRA Testing & Certification (Suzhou) Co., Ltd.  
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FCC Designation Number: CN1199

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Approved By :   
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## 1. RF Exposure Evaluation

### 1.1.Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

$P_d$  = power density in mW/ cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

R = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

## 1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18 and 78% RH.

## 1.3. Test Result of RF Exposure Evaluation

Product	:	Level Lock
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

### ● Antenna Information:

Antenna manufacturer	N/A								
Antenna Delivery	<input checked="" type="checkbox"/>	1*TX+1*RX		<input type="checkbox"/>	2*TX+2*RX		<input type="checkbox"/>	3*TX+3*RX	
Antenna technology	<input checked="" type="checkbox"/>	SISO							
	<input type="checkbox"/>	MIMO	<input type="checkbox"/>	Basic					
			<input type="checkbox"/>	CDD					
			<input type="checkbox"/>	Beam-forming					
Antenna Type	<input type="checkbox"/>	External	<input type="checkbox"/>	Dipole					
	<input checked="" type="checkbox"/>	Internal	<input type="checkbox"/>	PIFA					
			<input checked="" type="checkbox"/>	PCB					
			<input type="checkbox"/>	Ceramic Chip Antenna					
			<input type="checkbox"/>	Stamping Antenna					
			<input type="checkbox"/>	Metal plate type F antenna					
			<input type="checkbox"/>	Monopole antenna					
Antenna Gain	-6.5dBi								

- **Power Density:**

Test Mode	Frequency Band (MHz)	EIRP (dBm)	Limit of Power Density S(mW/cm <sup>2</sup> )	Power Density at R = 20 cm (mW/cm <sup>2</sup> )
BT	2400 ~ 2483.5	-4.19	1	0.00008

Note: The maximum power density is 0.00008mW/cm<sup>2</sup> for Level Lock without any other radio equipment.

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