

Report No.: SZEM200900987303

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## **SAR Evaluation Report**

Application No.: SZEM2009009873CR

Applicant: SARIANA LLC

Address of Applicant: 7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA

Manufacturer: SARIANA LLC

Address of Manufacturer: 7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA

Factory: GUANGDONG SENEASY INTTELLIGENT TECHNOLOGY CO., LTD

Address of Factory: No. 63, Huitai Industrial Park, Huicheng District, Huizhou City, Guangdong,

China 516006

**Equipment Under Test (EUT):** 

**EUT Name:** R1 Bluetooth Presentation Remote

Model No.: ST-BTPR1M Trade Mark: SATECHI

 FCC ID:
 ZE9-ST-BTPR1M

 Standards:
 47 CFR Part 1.1307

 47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2020-09-29

**Date of Test:** 2020-10-10 to 2020-10-13

**Date of Issue:** 2020-10-21

Test Result : PASS\*

Keny Xu EMC Laboratory Manager

Ceny. xu



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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## 2 Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2020-10-21		Original	

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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## 4 General Information

## 4.1 General Description of EUT

Power Supply:	Rechargeable battery DC3.7V,200mAh ,Charged by DC5V
Cable:	Type-C Cable:25cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	BLE V5.0
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mb/s
Antenna Type:	Integral
Antenna Gain:	-5.32dBi



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#### 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.4 Deviation from Standards

None.

### 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



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### 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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 Exclusion Threshold condition, listed below, is satisfied.

#### **5.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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<sup>17</sup>

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is 1.72 dBm on the lowest channel 2.402 GHz (\*)

1.72 dBm logarithmic terms convert to numeric result is nearly 1.49 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [Vf(GHz)]$ 

General RF Exposure = (1.49 mW / 5 mm) x  $\sqrt{2.402}$  GHz = 0.46

(1)

SAR requirement:

 $S = 3.0 \tag{2}$ 

(1) < (2)

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM200900987302

- End of the Report -



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