

Report No.: SZEM200600501703

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# **SAR Evaluation Report**

Application No.: SZEM2006005017CR

Applicant: Shenzhen Bason Electronics Technology Co., Ltd.

Address of Applicant: 5th Floor, B Building, Huilongda Industrial Park, Shuitian Community, Shiyan

Street, Baoan District Shenzhen.

Manufacturer: Shenzhen Bason Electronics Technology Co., Ltd.

Address of Manufacturer: 5th Floor, B Building, Huilongda Industrial Park, Shuitian Community, Shiyan

Street, Baoan District Shenzhen.

Factory: Shenzhen Bason Electronics Technology Co., Ltd.

Address of Factory: 5th Floor, B Building, Huilongda Industrial Park, Shuitian Community, Shiyan

Street, Baoan District Shenzhen.

**Equipment Under Test (EUT):** 

EUT Name:LED stripModel No.:10M36W114BFCC ID:2AYVG-E114B

**Standards:** 47 CFR Part 1.1307 (2016)

47 CFR Part 2.1093 (2016)

KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2020-06-16

**Date of Test:** 2020-10-26 to 2020-12-18

**Date of Issue:** 2020-12-29

Test Result : Pass\*

Keny Xu EMC Laboratory Manager

Keny. 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		2020-12-29		Original	

Authorized for issue by:		
	Peter. Greg	
	Peter Geng /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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## **General Information**

## 4.1 General Description of EUT

Power Supply:	AC/DC adapter information,
	MODEL: MYX-2401000US
	INPUT: AC 100-240V, 50/60Hz, 0.8A Max
	OUTPUT: DC 24V, 1A
Cable:	DC line: 150cm, unshielded
Antenna Gain:	-3 dBi
Antenna Type:	Integral antenna
Channel Spacing:	2MHz
Modulation Type:	GFSK
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz



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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  $\leq$  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 toleranc -2.53 dBm on the highest chann 2.44 GHz (\*) -2.53 dBm logarithmic terms convert to numeric result is nearly 0.56 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [vf(GHz)]

General RF Exposure =  $(0.56 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.44 \text{ GHz}} = 0.17$  (1)

SAR requirement:

 $S = 3.0 \tag{2}$ 

(1) < (2)

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM200600501702

- End of the Report -



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