

Report No.: GZEM201101681002

Page: 1 of 10 FCC ID: 2AGE384103

### RF Exposure Evaluation Report

Application No.: GZEM2011016810CR

Applicant: Guilin Gemred Sensor Technology Co., Ltd

Address of Applicant: No. D-08, Information Industrial Park, Chaoyang Road Qixing District, Guilin

City, Guangxi Zhuang Autonomous Region

Manufacturer:The same as applicantAddress of Manufacturer:The same as applicantFactory:The same as applicantAddress of Factory:The same as applicant

**Equipment Under Test (EUT):** 

FCC ID: 2AGE384103

**EUT Name:** Digital Body Tape Measure

Model No.: 84103 Trade Mark: Gemred

**Standard(s):** 47 CFR Part 1.1307, Part 2.1093, KDB 447498

**Date of Receipt:** 2020-11-26

**Date of Evaluation:** 2020-12-14 to 2020-12-15

**Date of Issue:** 2021-01-27

Evaluation Result: Pass\*

Kobe Jian EMC Laboratory Manager



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



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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021-01-27		Original	

Authorized for issue by:		
Evaluated By	Cily Knang	2020-12-14 to 2020-12-15
	Lily_Kuang /Project Engineer	Date
Checked By	Riday Liu	2021-01-27
	Ricky_Liu /Reviewer	Date



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### 2 Evaluation Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass



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#### 4 General Information

#### 4.1 Details of E.U.T.

Power Supply: DC 3V Test Voltage: DC 3V

Antenna Gain: 0dBi declared by applicant

Antenna Type: Integrated antenna

Channel Spacing: 2MHz
Modulation Type: GFSK
Number of Channels: 40

Operation Frequency: 2402MHz to 2480MHz

Hardware Version: GR4103 GNB

Firmware Version: V1.2

S/N: RP-20200601 Test Software Version: BT\_Tool V1.1

Function: Digital Body Tape Measure with BLE function
Power setting level -2 dBm for BLE can not be changed by user

BT Version: BT5.0\_1M only

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

#### 4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

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No tests were sub-contracted.



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#### 4.4 Test Facility

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

#### ● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

#### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### ● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

#### ● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

#### ◆FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

#### ● Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### ● VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

#### ● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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### 5 Radio Spectrum Technical Requirement

#### 5.1 RF Exposure

#### 5.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

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

#### 5.1.2 Conclusion

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz. The worst case test separation distance is **5mm**.

The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

Transmit frequency (GHz)	Power[dBm]	Max Conducted Output Power (mW)
2.402	-2.62	0.547
2.442	-3.08	0.492
2.480	-3.56	0.441

The Max Conducted Peak Output Power is -2.62dBm on the Lowest channel 2.402GHz

-2.62dBm logarithmic terms convert to numeric result is nearly 0.547mW(the maximum power in three transmit frequencies)



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According to the formula, calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}]$  General RF Exposure = (0.547mW / 5 mm ) x  $\sqrt{2.402GHz}$  = 0.17 ①;

SAR requirement: S = 3.0 ②;

(1) < (2)

So the SAR report is not required.

#### Remark:

The SAR Test Exclusion Threshold for 100 MHz to 6 GHz is calculated from:

1) 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)]·[ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  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

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.

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, the SAR report is not required.



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### 6 Photographs

#### 6.1 EUT Constructional Details

Please refer to Appendix A - Photographs of EUT Constructional Details for GZEM2011016810CR.

-- End of Report--



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