

EMC-TRF-03 Rev 1.0

Report No.: GZCR210802083302 Page: 1 of 8 FCC ID: 2AAJ7-720SYD

# **RF EXPOSURE EVALUATION REPORT**

Application No.:	GZCR2108020833AT		
Applicant:	SHENZHEN HEALTHCARE ELECTRONIC TECHNOLOGY CO., LTD.		
Address of Applicant:	Block 48, Changxing Industrial Zone, Changzhen Community,		
	Yutang Street, Guangming District, Shenzhen, Guangdong, P.R.China 518132		
Manufacturer/ Factory:	SHENZHEN HEALTHCARE ELECTRONIC TECHNOLOGY CO., LTD.		
Address of Manufacturer	Block 48, Changxing Industrial Zone, Changzhen Community,		
/ Factory:	Yutang Street, Guangming District, Shenzhen, Guangdong, P.R.China 518132		
Equipment Under Test (EUT	):		
EUT Name:	Bluetooth® body fat scale		
Model No.:	BF 720, BF 720 silver, BF 720 black, SBF 77, SBF 77 black, SBF 77 white, SBF 73, SBF 73 S/B, SBF 73 black		
<b>"</b>	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.		
Trade Mark:	CVSHealth, beurer, SILVERCREST, Vitalcontrol, sanitas, Life		
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1307		
	47 CFR PART 1, Subpart I, Section 1.1310		
	47 CFR PART 2, Subpart J, Section 2.1093		
	KDB447498D01 General RF Exposure Guidance v06		
Date of Receipt:	2021-08-24		
Date of Evaluation:	2021-08-24 to 2021-08-29		
Date of Issue:	2021-10-12		
Evaluation Result:	Pass*		

\* In the configuration evaluated, the EUT complied with the standards specified above.

Kobe Jian EMC Laboratory Manager



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EMC-TRF-03 Rev 1.0

Report No.: GZCR210802083302 Page: 2 of 8

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-10-12		Original

Authorized for issue by		
Tested By	vius cui	
	Vico Cui/Project Engineer	
Reviewed By	Ridey Lin	
	Ricky Liu/Reviewer	



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EMC-TRF-03 Rev 1.0 Report No.: GZCR210802083302 Page: 3 of 8

#### **Evaluation Summary** 2

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

#### **Declaration of EUT Family Grouping:**

Model No.: BF 720, BF 720 silver, BF 720 black, SBF 77, SBF 77 black, SBF 77 white, SBF 73, SBF 73 S/B, SBF 73 black

Only the model BF720 was tested fully, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No., trademark, color of enclosure and appearance.



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EMC-TRF-03 Rev 1.0

Report No.: GZCR210802083302 Page: 4 of 8

#### 3 **Contents**

1

	Page
Cover Page	1

2	Evaluation Summary		3
3 Contents			
4	Gen	eral Information	5
2	4.1	Details of E.U.T.	5
2	1.2	Evaluating Location	5
2	1.3	Facility Deviation from Standards	6
Z	1.4	Deviation from Standards	6
Z	4.5	Abnormalities from Standard Conditions	6
5	Tecl	hnical Requirements Specification	
5	5.1	RF Exposure Evaluation	7
	5.1.1	1 Limit & Test Method	7
	5.1.2	2 Conclusion	7
6	EUT	Constructional Details (EUT Photos)	8



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EMC-TRF-03 Rev 1.0 Report No.: GZCR210802083302 Page: 5 of 8

#### 4 **General Information**

# 4.1 Details of E.U.T.

Power supply: **Operation Frequency:** Bluetooth Version: Modulation Type: Number of Channels: **Channel Spacing:** Antenna Type: Antenna Gain:

DC 4.5V(3\*1.5V "AAA" Size batteries) 2402MHz to 2480MHz V4.0 LE GFSK 40 2MHz **PIFA** Antenna 2.6dBi

# 4.2 Evaluating 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 Fax: +86 20 82075059 Tel: +86 20 82155555 No tests were sub-contracted.



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Page:

Report No.: GZCR210802083302

6 of 8

EMC-TRF-03 Rev 1.0

### 4.3 Facility

The 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/New Zealand Regulatory Compliance Mark (RCM).

#### 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 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.

#### ISED (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-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 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-20107 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 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.4 Deviation from Standards

None

# 4.5 Abnormalities from Standard Conditions

None



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EMC-TRF-03 Rev 1.0 Report No.: GZCR210802083302 Page: 7 of 8

#### **Technical Requirements Specification** 5

# 5.1 RF Exposure Evaluation

## 5.1.1 Limit & Test Method

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] - $[\sqrt{f}(GHz)] \le 3.0$  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

### 5.1.2 Conclusion

The Max. power (including tune-up tolerance) is 0.5 dBm accroding to the user manual. 0.50 dBm logarithmic terms convert to numeric result is nearly 1.12 mW

According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

[√f(GHz)] General RF Exposure =  $(1.12 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 0.35$ (1) SAR requirement: (2)S = 3.0

(1) < (2)So the SAR report is not required.

(\*) Max. power refer to the user manual.



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EMC-TRF-03 Rev 1.0 Report No.: GZCR210802083302 Page: 8 of 8

#### **EUT Constructional Details (EUT Photos)** 6

Refer to appendix - external and internal photos for GZCR2108020833AT

- End of the Report -



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