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Report No.: GZEM191001627503

Page: 1 of 10

# TEST REPORT

Application No.: GZEM1910016275CR

Applicant: Guangdong Transtek Medical Electronics Co., Ltd.

Address of Applicant: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan,

528437, Guangdong, China

Manufacturer: Guangdong Transtek Medical Electronics Co., Ltd.

Address of Manufacturer: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan,

528437, Guangdong, China

Factory: Guangdong Transtek Medical Electronics Co., Ltd.

Address of Factory: Zone B, No.105, Dongli Road, Torch Development District, Zhongshan,

528437, Guangdong, China

**Equipment Under Test (EUT):** 

**EUT Name:** Activity Tracker

Model No.: LS431-B, M5, 21200 ¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: TRANSTEK

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

 Date of Receipt:
 2019-10-11

 Date of Test:
 2019-10-22

 Date of Issue:
 2019-11-06

Test Result: Pass\*

Kobe Jian

Kupe Tinn

**EMC Laboratory Manager** 

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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



Report No.: GZEM191001627503

Page: 2 of 10

Revision Record						
Version Chapter Date Modifier Remark						
01		2019-11-06		Original		

Authorized for issue by:			
Tested By	Curry Wie	2019-10-22	
	Curry_Wu /Project Engineer	Date	
Checked By	Riday Liu	2019-11-06	
	Ricky_Liu /Reviewer	Date	



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Report No.: GZEM191001627503

Page: 3 of 10

## 2 Test 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			

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

Model No.: LS431-B, M5, 21200

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Besides, all models are with two battery packs (351225 & SL351225), since the RF parameters are the same, only one model LS431-B with battery packs 351225 was tested in this report.



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Report No.: GZEM191001627503

Page: 4 of 10

## 3 Contents

			Page
1	Cove	er Page	······································
2	Test	Summary	3
_			
3	Cont	tents	4
4	Gene	eral Information	5
	4.1	Details of E.U.T.	5
	4.2	Description of Support Units	5
	4.3	Measurement Uncertainty	
	4.4	Test Location	5
	4.5	Test Facility	
	4.6	Deviation from Standards	
	4.7	Abnormalities from Standard Conditions	7
5	Equi	ipment List	8
6	Radi	io Spectrum Technical Requirement	c
		RF Exposure  Test Requirement:	
7	Phot	tographs	10
	7.1	EUT Constructional Details	10



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Report No.: GZEM191001627503

Page: 5 of 10

### **General Information**

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

Power Supply: DC 3.7V (internal rechargeable battery) for working

DC 5V for charging

Test Voltage: AC 120V 60Hz& DC 3.7V

Cable: N/A Antenna Gain: 4dBi

Antenna Type: Integral antenna

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

Operation Frequency: 2402MHz to 2480MHz

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10 <sup>-8</sup>
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	6 Conducted Spurious Emissions ±1.04dB	
7	RF Radiated Power	±4.5dB (below 1GHz)
/	nr nadiated rower	±4.8dB (above 1GHz)
8	Padiated Spurious Emission Test	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	9 Temperature ±0.4℃	
10	10 Humidity ±1.3%	
11	11 Supply Voltages ±1.5%	
12 Time ±3%		±3%

#### 4.4 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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Report No.: GZEM191001627503

Page: 6 of 10

### 4.5 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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Report No.: GZEM191001627503

Page: 7 of 10

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: GZEM191001627503

Page: 8 of 10

## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer	AgilentTechnologies	N9020A	SEM004-10	2019-02-24	2020-02-23
ESG Vector Signal Generator	Keysight	E4438C	SEM006-03	2019-04-05	2020-04-04
EXG Analog Signal Generator	AgilentTechnologies	N5171B	SEM006-04	2017-07-26	2020-07-25
Power Meter	AgilentTechnologies	U2021XA_Ch2	SEM009-02	2019-05-29	2020-05-28
Power Meter	AgilentTechnologies	U2021XA_Ch3	SEM009-03	2019-05-29	2020-05-28
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01

General used equipment						
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date	
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15	
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15	



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Report No.: GZEM191001627503

Page: 9 of 10

## 6 Radio Spectrum Technical Requirement

### 6.1 RF Exposure

#### 6.1.1 Test Requirement:

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:

The Max Conducted Peak Output Power is -0.37 dBm on the lowest chann 2.442 GHz

-0.37 dBm logarithmic terms convert to numeric result is nearly 0.92 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/

(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}]$ 

General RF Exposure =  $(0.92 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.442 \text{ GHz}} = 0.29$  (1)

SAR requirement:

S = 3.0 (2)

(1) < (2)

So the SAR report is not required.

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)] ·

 $[\sqrt{f(GHz)}] \le 3.0$  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

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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Report No.: GZEM191001627503

Page: 10 of 10

## 7 Photographs

### 7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1910016275CR

--End of Report--



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