

Report No.: GZCR210802083702 Page: 1 of 9 FCC ID: SRM-T11013100

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2108020837AT		
Applicant:	SENSITECH Inc.		
Address of Applicant:	800 Cummings Center, Beverly MA 01915, USA		
Manufacturer:	JDI Electronics Factory		
Address of Manufacturer:	Sima Industrial Zone, Sima Village, Changping Town Dongguan City, Guangdong China		
Factory:	JDI Electronics Factory		
Address of Factory:	Sima Industrial Zone, Sima Village, Changping Town Dongguan City, Guangdong China		
Equipment Under Test (EUT):			
EUT Name:	TEMPTALE ULTRA BLE		
Model No.:	T11013100		
Trade Mark:	SENSITECH		
Standard(s) :	47 CFR Part 1.1307		
	KDB447498D01 General RF Exposure Guidance v06		
Date of Receipt:	2021-08-24		
Date of Evaluation:	2021-09-08 to 2021-09-17		
Date of Issue:	2021-10-21		
Evaluation Result:	Pass*		

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

Kobe Jian EMC Laboratory Manager



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	Revision Record			
Version	Chapter	Date	Modifier	Remark
01		2021-10-21		Original

Authorized for issue by:		
	Coby knong	
	Lily Kuang/Project Engineer	-
	Ridge Lin	
	Ricky Liu/Reviewer	-



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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.



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4 **General Information**

4.1 Details of E.U.T.

Power supply: Test Voltage:	DC 3 V (1* CR2450 size battery) AC 120 V, 60 Hz
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0dBi declared by applicant
Firmware Version:	E234156
Hardware Version:	V1.1
Testing Software:	FCC Assist 1.0
Sample NO.:	SP-202100650
Power Setting:	0 dBm can not be changed by user
Function:	Temperature display by BLE
BT Version:	BT 5.1 for BLE-1M only

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



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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

Abnormalities from Standard Conditions 4.5

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 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**.

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 \leq 50 mm are determined by:

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

 $[\,\,\sqrt{f}(GHz)]\leqslant$ 3.0 for 1-g SAR and \leqslant 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 calculation17
- 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



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5.1.3 Conclusion

The Max Conducted Peak Output Power is 0.24dBm (include turn up tolerance) in Middle channel(2.440GHz); Note: Refer to report No. GZCR210802083701 for EUT test Max Conducted Peak Output Power value.

0.24dBm logarithmic terms convert to numeric result is nearly 1.06mW.

According to the formula. calculate the test exclusion threshold result:

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

 $\left[\sqrt{f(GHz)}\right]$

General RF Exposure = (1.06mW / 5 mm) x $\sqrt{2.440}$ GHz = 0.33 (1)

SAR requirement:

S= 3.0

(1) < (2).

②;

So the SAR report is not required.



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EUT Constructional Details (EUT Photos) 6

Refer to Appendix - External and Internal Photos for GZCR2108020837AT

- End of the Report -



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