

RF Exposure Evaluation Report

APPLICANT: Zebra Technologies Corporation

EQUIPMENT: BLE Battery

BRAND NAME : Zebra

MODEL NAME : BT-000473B

FCC ID : UZ7BT000473B

STANDARD : 47 CFR PART 2.1093

The product evaluation date was started from May 17, 2023 and completed on May 17, 2023. We, Sporton International Inc. (Kunshan), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Approved by: Si Zhang

Si Zhang

IAC-MRA



Report No. : FA350812

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International Inc. (Kunshan)

TEL: 86-512-57900158 / FAX: 86-512-57900958

FCC ID: UZ7BT000473B

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Report Version : Rev. 01

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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA350812	Rev. 01	Initial issue of report	May 22, 2023

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1. Administration Data

1.1. <u>Testing Laboratory</u>

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158 FAX: +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
rest one no.	SAR01-KS	CN1257	314309

Applicant		
Company Name	Zebra Technologies Corporation	
Address	1 Zebra Plaza, Holtsville, NY 11742	

Manufacturer		
Company Name	Zebra Technologies Corporation	
Address	1 Zebra Plaza, Holtsville, NY 11742	

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2. Description of Equipment Under Test (EUT)

Product Feature & Specification			
EUT Type BLE Battery			
Brand Name	Zebra		
Model Name	BT-000473B		
FCC ID UZ7BT000473B			
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz		
Mode Bluetooth LE			
Antenna Type	Bluetooth : Monopole Antenna		
Antenna Gain Bluetooth: gain -0.20 dBi			
HW Version DV REV 6			
SW Version BLE FW 3.19			
MFD 24APR23			
EUT Stage Identical Prototype			
Pomark:			

Remark:

Comments and Explanations:

- 1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
- 2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

Sporton International Inc. (Kunshan)

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The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



3. Maximum RF Tune Up power among production units

<Bluetooth>

Mode	Maximum Average Power (dBm)	
Bluetooth LE	1.00	

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4. RF Exposure Evaluation

Mode	Maximum Average Power (dBm)	
Bluetooth LE	1.00	

Note:

1. Per KDB 447498 D01v06 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 ≤ 7.5 for 10-g extremity SAR

- 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

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
1.00	< 5	2.48	0.4

Conclusion:

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.4 which is \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, 1-g SAR and extremity SAR testing is not required, and complied with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for 1g SAR and 4.0 W/kg for extremity SAR) specified in FCC 47 CFR part 2 (2.1093).



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