



# RF Exposure Evaluation Report

APPLICANT : Zebra Technologies Corporation  
EQUIPMENT : Linear Imager Scanner  
BRAND NAME : Zebra  
MODEL NAME : LI3678  
FCC ID : UZ7LI3678  
STANDARD : 47 CFR Part 2.1093  
FCC KDB 447498 D01 v06

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

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## **Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA582533	Rev. 01	Initial issue of report	Mar. 18, 2016



## 1. Administration Data

Testing Laboratory	
Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978

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

## 2. General Information

### 2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	Linear Imager Scanner
Brand Name	Zebra
Model Name	LI3678
FCC ID	UZ7LI3678
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	• Bluetooth v2.1+EDR, Bluetooth v4.0-LE
Antenna Type	SMD Antenna
HW Version	Rev A
SW Version	Rev A
MFD	21JAN16
DUT Stage	Identical Prototype

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



### 3. Maximum RF output power among production units

Mode / Band	Average Power (dBm)			
	EDR			LE (GFSK)
	1Mbps	2Mbps	3Mbps	
Bluetooth	6.1	6.0	6.0	6.1

### 4. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
6.1	4.00	5	2.48	1.26

**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*  $\leq$  50 mm are determined by:

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

1-g SAR and  $\leq$  7.5 for 10-g extremity SAR

- $f(\text{GHz})$  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

**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 1.26 which is  $\leq$  3.0, SAR testing is not required.