

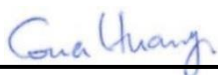
# RF Exposure Evaluation Report

FCC ID : UZ7DS2278A  
Equipment : Cordless 1D/2D Handheld Imager  
Brand Name : Zebra  
Model Name : DS2278A  
Applicant : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742-1300, USA  
Manufacturer : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742-1300, USA  
Standard : 47 CFR Part 2.1093

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1093 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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## Revision History

| REPORT NO.  | VERSION | DESCRIPTION             | ISSUED DATE   |
|-------------|---------|-------------------------|---------------|
| FA720928-02 | Rev. 01 | Initial issue of report | Apr. 13, 2023 |
|             |         |                         |               |
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## **1. General Information**

### **1.1 Description of Device Under Test (DUT)**

| Product Feature & Specification         |                                |
|-----------------------------------------|--------------------------------|
| DUT Type                                | Cordless 1D/2D Handheld Imager |
| Brand Name                              | Zebra                          |
| Model Name                              | DS2278A                        |
| FCC ID                                  | UZ7DS2278A                     |
| Wireless Technology and Frequency Range | Bluetooth: 2402 MHz ~ 2480 MHz |
| Mode                                    | Bluetooth LE                   |
| HW Version                              | DV                             |
| MFD                                     | 20DEC22                        |
| DUT Stage                               | Identical Prototype            |

## **2. Maximum RF output power among production units**

| Mode      | Average Power (dBm) |
|-----------|---------------------|
|           | LE                  |
|           | 1Mbps               |
| Bluetooth | 2.38                |

### 3. RF Exposure Evaluation

| Bluetooth<br>Max Power (dBm) | mW   | Separation<br>Distance (mm) | Frequency<br>(GHz) | Exclusion<br>Thresholds |
|------------------------------|------|-----------------------------|--------------------|-------------------------|
| 2.38                         | 1.73 | 5                           | 2.48               | 0.54                    |

**Note:**

- 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:

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

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 0.54 which is  $\leq 3$ , SAR testing is not required.