

# RF EXPOSURE EVALUATION REPORT

FCC ID : UZ7CR8288SC  
Brand Name : Zebra  
Equipment : Standard Cradle  
Model Name : CR8288-SC  
Applicant : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
Manufacture : Zebra Technologies Corporation  
3 Overlook Point, Lincolnshire, IL 60069 USA  
Standard : FCC 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 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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## History of this test report

Report No.	Version	Description	Issued Date
FA541704B	Rev. 01	Initial issue of report	Jul. 14, 2025

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	Standard Cradle
Brand Name	Zebra
Model Name	CR8288-SC
FCC ID	UZ7CR8288SC
Wireless Technology and Frequency Range	Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	Bluetooth BR/EDR/LE
HW Version	PC-002191-02
FW Version	CAAGNS00-001-N16D0
MFD	20MAR25

**Reviewed by: Jason Wang****Report Producer: Paula Chen****2. Maximum RF average output power among production units**

Mode	Maximum Average Power (dBm)
Bluetooth BR/EDR	4.14

Mode	Maximum Average Power (dBm)
BLE	3.75

### **3. RF Exposure Limit Introduction**

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



## **4. Radio Frequency Radiation Exposure Evaluation**

### **4.1. Standalone Power Density Calculation**

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
Bluetooth	5.32	4.14	9.5	8.83	0.002	1.000

### **Conclusion:**

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.