

Flare Jewelry, Inc.

RF Exposure Exhibit

SCOPE OF WORK

EMC TESTING – Flare Bracelet Model: FJ6002MSCSP

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**RF Exposure Exhibit
(Portable devices)**

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Project Number: G104716705

Report Issue Date: July 28, 2021

Product Designation: Flare Bracelet

Model Tested: FJ6002MSCSP

FCC ID: 2A2D9-FJ6002MSCSP

IC: 27430-FJ6002MSCSP

to

47CFR 2.1093

RSS-102 Issue 5

for

Flare Jewelry, Inc.

Tested by:

Intertek
1365 Adams Court
Menlo Park, CA 94025 USA

Client:

Flare Jewelry, Inc.
110 Chauncy Street
Boston, MA 02111 USA

Report prepared by:



Amar Kacel / Staff Engineer

Report reviewed by:



Krishna Vemuri / EMC Manager

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Report No. 104716705MPK-010	
Equipment Under Test:	Flare Bracelet
Trade Name:	Flare Jewelry, Inc.
Model(s) Tested:	FJ6002MSCSP
Applicant:	Flare Jewelry, Inc.
Contact:	Sara Dickhaus de Zarraga
Address:	Flare Jewelry, Inc. 110 Chauncy Street Boston, MA 02111
Country:	USA
Tel. Number:	(732) 232-7724
Email:	sara@getflare.com
Applicable Regulation:	47CFR 2.1093 RSS-102 Issue 5

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1.0 RF Exposure Summary

Test	Reference FCC	Reference Industry Canada	Result
Radio frequency Radiation Exposure Evaluation	47 CFR§2.1093	RSS-102 Issue 5	Complies

2.0 RF Exposure Limits

2.1 FCC Limits

According to FCC KDB 447498 D01 v06 Appendix A, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 10 mW.

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above.

2.2 Industry Canada Limits

According to RSS-102 sec. 2.5.1 table 1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 4 mW.

Note: For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 of RSS-102 are multiplied by a factor of 2.5.

3.0 Test Results (Portable Configuration)

3.1 Classification

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. Per the applicant, Flare Bracelet is intended to be worn on the arm.

3.2 EIRP calculations

The Flare Bracelet consists of Bluetooth Low Energy radio.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain ¹ (dBi)	Note
2402-2480	-4.08	-3.7	Conducted power measurements were taken from Report # 104716705MPK-002.

¹As declared by the manufacturer.

3.4 RF Exposure Calculation for Flare Bracelet

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v06

According to FCC KDB 447498 D01 v06 Appendix A, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 25 mW (limb-worn device limit).

Max Peak Conducted Power measured = -4.08 dBm or 0.3908 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is - 4.08 dBm (RF Conducted Power) + 0 dBi (Antenna Gain) = -4.08 dBm or 0.3908 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

3.4.2 RF Exposure calculation for RSS-102 Issue 5

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 10 mW (limb-worn device limit).

Max Peak Conducted Power measured = -4.08 dBm or 0.3908 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -4.08 dBm (RF Conducted Power) + 0 dBi (Antenna Gain) = -4.08 dBm or 0.3908 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/ G104716705	AK	KV	July 28, 2021	Original document