



RF EXPOSURE EVALUATION REPORT

FCC ID : XRAFB417
Equipment : wireless activity tracker
Brand Name : Fitbit
Model Name : FB417
Applicant : FITBIT, INC.
199 FREMONT, 14TH FLOOR, SAN FRANCISCO, CA
Manufacturer : FITBIT, INC.
199 FREMONT, 14TH FLOOR, SAN FRANCISCO, CA
Standard : 47 CFR Part 2.1093
FCC KDB 447498 D01 v06

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

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

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.

Approved by: Cona Huang / Deputy Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA9D0531	Rev. 01	Initial issue of report	Jan. 14, 2020
FA9D0531	Rev. 01	Revised Section 2 and 3	Feb. 03, 2020



1. General Information

1.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	wireless activity tracker
Brand Name	Fitbit
Model Name	FB417
FCC ID	XRAFB417
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	Bluetooth LE NFC:ASK
Antenna Type	loop antenna
DUT Stage	Production Unit

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

Reviewed by: Jason Wang

Report Producer: Daisy Peng

2. Maximum RF output power among production units

Mode / Band	Bluetooth
	LE
	(GFSK)
2.4GHz Bluetooth	4



3. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
4	2.51	5	2.48	0.79

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and ≤ 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

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 0.79 which is ≤ 7.5, SAR testing is not required.