



RF Exposure Evaluation

FCC ID: 2AH2P-305172-OM950

APPLICANT: DECATHLON USA LLC

Application Type: Supplier's Declaration of Conformity

Product: KIPRUN GPS 900

Model No.: KIPRUN GPS 900

Trademark: 

FCC Rule Part(s): Part 2.1091 (Mobile)

Received Date: April 23, 2020

Test Date: June 4 ~ July 31, 2020

Tested By : *Peter Syu*

(Peter Syu)

Reviewed By : *Paddy Chen*

(Paddy Chen)

Approved By : *Chenz Ker*

(Chenz Ker)



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

Report No.	Version	Description	Issue Date	Note
2004TW8501-U3	1.0	Original Report	2021-04-12	

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	KIPRUN GPS 900
Model No.	KIPRUN GPS 900
Trademark	
Supports Radios Spec.	BLE 4.2 GPS
Bluetooth Specification	V4.2 LE
Operating Frequency	2402~2480MHz
Type of modulation	GFSK

Note: Conception code/Model code/Item code difference as following (Difference is in the color) :

Appearance	Difference
BLACK/ROSE GOLD	Item code: 4084746, Conception code: 305172, Model code: 8596974
WHITE/SILVER	Item code: 2664088, Conception code: 305172, Model code: 8529158
BLACK/GUNMETA	Item code: 2664089, Conception code: 305172, Model code: 8529159

1.2. Antenna Description

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Advanced Ceramic X	AT3216-B2R7HAA	Chip	0.5dBi

2. RF Exposure Evaluation

2.1. FCC Limits

According to FCC KDB 447498 Section 4.3 - General SAR test exclusion guidance

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. The result is rounded to one decimal place for comparison
4. The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

2.2. Test Result of RF Exposure Evaluation

Mode	Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	FCC Extremity SAR Test Exclusion Threshold (mW)
BLE	2402~2480	7.5	5.62	25

so this device can comply the SAR test exclusion.

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