

RF EXPOSURE EXEMPT REPORT

APPLICANT: Anker Innovations Limited

PRODUCT NAME: Soundcore Sport Air

MODEL NAME : A3405

BRAND NAME: Soundcore

FCC ID : 2AOKB-A3405

STANDARD(S) : 47CFR 2.1093 KDB 447498

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Change History			
Version Date Reason for change			
1.0	2019-01-29 First edition		



1. Technical Information

Note: Provide by manufacturer.

1.1 Applicant and Manufacturer Information

Applicant:	Anker Innovations Limited	
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Applicant Address:	Kowloon, Hongkong	
Manufacturer: Anker Innovations Limited		
Manufacturan Adduses	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok,	
Manufacturer Address:	Kowloon, Hongkong	

1.2 Equipment Under Test (EUT) Description

EUT Type:	Soundcore Sport Air	
Hardware Version:	V4.0	
Software Version:	V1.1	
Frequency Bands:	Bluetooth: 2402MHz-2480MHz	
Modulation Mode:	Bluetooth: GFSK, π/4-DQPSK, 8-DPSK	
Antenna Type:	Ceramic Antenna	
Antenna Gain:	2.0dBi	





1.3 Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	V4.0	V1.1

1.4 Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title	
1	47 CFR§2.1093	Radio Frequency Radiation Exposure Evaluation: portable devices	
2	KDB 447498 D01v06	General RF Exposure Guidance	



2. Device Category and RF Exposure Limit

Per user manual, this device isRuntopia S1 Smart GPS Sport Watch. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

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.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.





3. Measurement of RF Output Power

1. Bluetooth output power

Mode	Channel	Frequency	Average Power (dBm)		
		(MHz)	DH5	2DH5	3DH5
BR / EDR	CH 00	2402	4.27	3.53	4.91
	CH 39	2441	3.85	5.67	4.26
	CH 78	2480	3.78	4.06	3.98
Tune-up Limit (dBm)		4.50	6.00	5.00	

Note: According to KDB 447498 Section 4.3, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.





4. RF Exposure Evaluation

The device only incorporates a Soundcore Sport Air, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances≤ 50 mm are determined by:

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

The maximum tune-up limit power is 3.98mW @ 2.441GHz

When Soundcore Sport Air is used on the hand/head, so use**5mm** as the most conservative minimum test separation distance,

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] =1.24 \leq 3.0

So SAR evaluation is not required for this device.

Note: Declaration of the tune-up limit is 6.0dBm.





Annex A General Information

1. Identification of the Responsible Testing Laboratory

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Laboratory Name:	Shenzhen Morlab Communications Technology Co.,				
	Ltd.Morlab Laboratory				
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang				
	Road, Block 67, BaoAn District, ShenZhen, GuangDong				
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
	Morlab Laboratory		
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	Road, Block 67, BaoAn District, ShenZhen, GuangDong		
	Province, P. R. China		

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