RF Exposure Evaluation

FCC ID: 2AECXRRF-S2

1. Client Information

Applicant : Shenzhen Fourier Technology Co., LTD.

Address : 1068 Xueyuan avenue, Shenzhen, China

Manufacturer : Shanghai Meilide Fitness Equipment Co., LTD

Address : Great Wall economic development zone, Yongkang, Zhejiang, China

2. General Description of EUT

EUT Name	:	Runrunfast Smart Exercise Bike	
Brand Name	:	runrunfast	
Model No.	:	RRF-S2	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
		Max Peak Output Power:	GFSK: -0.715dBm (Conducted Power)
		Antenna Gain:	0 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps)
Power Supply	:	DC power by Power Bank	
Power Rating	:	Input: DC 5V Output: DC 5V	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

More test information about the EUT please refer the RF Test Report.

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2.

Calculation:

Test separation: 5mm					
Runrunfast Smart Exercise Bike (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-2.041	±0.5	0.701	0.217	**3.0**
2.441	-1.261	±0.5	0.839	0.262	**3.0**
2.480	-0.715	±0.5	0.952	0.300	**3.0**

So standalone SAR measurements are not required.