

FUJIAN ROVOS FITNESS CO., LTD.

MPE ASSESSMENT REPORT

Report Type:

FCC Part §2.1091, §2.1093 and §1.1307(b) assessment report

Model:

LC3200-S, LC3200-B, LC3300-S, BM-EC8351,
BM-EC8300, BM-EC8310, RY8351, RY8318,
RY8302, RY8310, RY8642, RY8640

REPORT NUMBER:

190900420SHA-002

ISSUE DATE:

September 20, 2019

DOCUMENT CONTROL NUMBER:

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Applicant: FUJIAN ROVOS FITNESS CO., LTD.
XibeiYang Industrial Zone, Fuan, Fujian, china

Manufacturer: FUJIAN ROVOS FITNESS CO., LTD.
XibeiYang Industrial Zone, Fuan, Fujian, china

Manufacturing site: FUJIAN ROVOS FITNESS CO., LTD.
XibeiYang Industrial Zone, Fuan, Fujian, china

Product Name: Massage Chair
LC3200-S, LC3200-B, LC3300-S, BM-EC8351, BM-EC8300, BM-EC8310, RY8351, RY8318, RY8302, RY8310, RY8642, RY8640

Type/Model:

FCC ID: 2AUKE-ROVOS

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:

REVIEWED BY:



Project Engineer
Chris Chen



Reviewer
Daniel Zhao

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Revision History

Report No.	Version	Description	Issued Date
190900420SHA-002	Rev. 01	Initial issue of report	September 20, 2019

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Massage Chair
Type/Model:	LC3200-S, LC3200-B, LC3300-S, BM-EC8351, BM-EC8300, BM-EC8310, RY8351, RY8318, RY8302, RY8310, RY8642, RY8640
Description of EUT:	The EUT is a Massage Chair which contains a Bluetooth 2.1 technology module, the Bluetooth module support BR+EDR and the worst data were listed in this report.
Rating:	AC120V~60Hz 120W
Software Version:	/
Hardware Version:	/
Sample received date:	Sep 12, 2019
Date of test:	Sep 12, 2019 ~ Sep 20, 2019

1.2 Technical Specification

Frequency Range:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth BR+EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number:	79 (0 - 78)
Data Rate:	1Mbps
Channel Separation:	1MHz

Antenna information:			
No.	Antenna Type	Gain (dBi)	Note
1	PCB antenna	2.0	/

TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^4	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	-
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	-
0,8-3 kHz	$250/f$	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	$0,73/f$	$0,92/f$	-
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 190900420SHA-001:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Frequency band	Power		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm ²)	(mW/cm ²)
2402 - 2480	0.44	1.107	2	1.58	20	0.0003	1

Note: 1 mW/cm² from 1.310 Table 1

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

***** END *****