

FCC TEST REPORT
for
E-Power Limited

Rumble Bluetooth speaker
Model No.: Rumble, V169 BT-1, BT-207, BT-007, SPN-15,
SP-KING-01, BT-211, BT-733, BT-732, BT-723

Prepared for : E-Power Limited
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Report Number : R011606203I-1
Date of Test : Jun. 06~ 20, 2016
Date of Report : Jun. 20, 2016

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TEST REPORT

Applicant : E-Power Limited
Manufacturer : E-Power Limited
EUT : Rumble Bluetooth speaker
Model No. : Rumble, V169 BT-1, BT-207, BT-007, SPN-15, SP-KING-01,
BT-211, BT-733, BT-732, BT-723
Serial No. : N.A.
Trade Mark : N.A.
Rating : DC 5V, 300mA

Measurement Procedure Used:

FCC PART 2 Subpart J 2015 paragraph 2.1093

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC §2.1093 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : Jun. 06~ 20, 2016

Prepared by :

Kebo Zhang

(Tested Engineer / Kebo Zhang)

Amy Ding

Reviewer :

(Project Manager / Amy Ding)

Tom Chen

Approved & Authorized Signer :

(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Rumble Bluetooth speaker
Model Number	: Rumble, V169 BT-1, BT-207, BT-007, SPN-15, SP-KING-01, BT-211, BT-733, BT-732, BT-723 (Note: All samples are the same except the model number and colour, so we prepare "Rumble" for test only.)
Test Power Supply	: AC 120V, 60Hz for adapter/ AC 240V, 60Hz for adapter/ DC 3.7V Battery inside
Frequency	: 2402~2480MHz
Antenna Specification	: Integrated Antenna: 3.3dBi
Modulation	: GFSK, $\pi/4$ DQPSK, 8DPSK
Applicant Address	: E-Power Limited : 7th Floor, NO.A Building, Gangzai Henghongtai Industrial Park, Shajing, Bao'an District, Shenzhen, Guangdong, China
Manufacturer Address	: E-Power Limited : 7th Floor, NO.A Building, Gangzai Henghongtai Industrial Park, Shajing, Bao'an District, Shenzhen, Guangdong, China
Factory Address	: E-Power Limited : 7th Floor, NO.A Building, Gangzai Henghongtai Industrial Park, Shajing, Bao'an District, Shenzhen, Guangdong, China
Date of receipt	: Jun. 06, 2016
Date of Test	: Jun. 06~ 20, 2016

1.2 Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, Jun. 13, 2016.

Test Location

All Emissions tests were performed at
Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC
Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong,
China

2. FCC § 2.1093 - RADIOFREQUENCY RADIATION EXPOSURE

EVALUATION: PORTABLE DEVICES.

2.1. RF Exposure

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b):

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{16} \text{ where}$$

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

2.2. Test Results

Channel (MHz)	Maximum output power(dBm)	Tune up tolerance(dBm)	Max Tune Up Power (dBm)	Distance (mm)	Calculation results	Limit	Modulation
2402	0.285	0.285±1	1.285	5	0.417	3	BDR
2441	0.541	0.541±1	1.541	5	0.446	3	BDR
2480	1.121	1.121±1	2.121	5	0.513	3	BDR
2402	0.210	0.210±1	1.210	5	0.410	3	EDR
2441	0.531	0.531±1	1.531	5	0.445	3	EDR
2480	1.035	1.035±1	2.035	5	0.503	3	EDR

Test Results: **PASS.**