

RF EXPOSURE REPORT

FOR

Applicant	:	The Singing Machine Company, Inc.
Address	:	6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL 33309, USA
Equipment under Test	:	Portable Karaoke Player
Model No.	:	iSM398BT, Tabeoke, iSM399BT, iSM398**(* can be 0-9, A to Z or NA)
Trade Mark	:	Singing Machine
FCC ID	:	2AAXO-ISM398BT
Manufacturer	:	MODERN ELECTRONICS FACTORY LIMITED
Address	:	FLAT C, 10/F, PHASE 4, KWUN TONG INDUSTRIAL CENTRE, 443-446 KWUN TONG ROAD, HONG KONG

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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REPORT

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TEST REPORT DECLARE

Applicant	:	The Singing Machine Company, Inc.
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Equipment under Test	:	Portable Karaoke Player
Model No.	:	iSM398BT, Tabeoke, iSM399BT, iSM398**(* is reserved for future color change, it can be 0-9, A to Z or NA)
Trade mark	:	Singing Machine
Manufacturer	:	MODERN ELECTRONICS FACTORY LIMITED
Address	:	FLAT C, 10/F, PHASE 4, KWUN TONG INDUSTRIAL CENTRE, 443-446 KWUN TONG ROAD, HONG KONG

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R18031301-1E3		
Date of Receipt:	Mar. 22, 2018	Date of Test:	Mar. 22, 2018 ~ Apr. 13, 2018

Prepared By:

Sam Li

Sam Li/Engineer

Approved By:



Kevin Feng/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Apr. 13, 2018	

1. General information

1.1. Description of Equipment

EUT* Name	: Portable Karaoke Player
Model Number	: iSM398BT, Tabeoke, iSM399BT, iSM398**(* it can be 0-9, A to Z or NA)
Difference of model number	: All models are identical, except the model number, appearance and color, so all tests are performed on model iSM398BT.
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V from external AC Adapter : DC 6V (4*1.5V "C" batteries)
Radio Specification	: Bluetooth V2.1
Operation frequency	: 2402MHz -2480MHz
Modulation	: GFSK, $\pi/4$ -DQPSK
Data rate	: 1Mbps, 2Mbps
Antenna Type	: Integral PCB antenna, maximum PK gain: -0.68dBi
Sample Type	: Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd

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2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Worse case is as below: [2441MHz, -7.27dBm (0.19mW) output power]

$(0.19/5) \cdot [\sqrt{2.441(\text{GHz})}] = 0.059 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

END OF REPORT