RF Exposure Evaluation Report

APPLICANT: Yamaha Corporation

EQUIPMENT: Earphones

BRAND NAME : YAMAHA

MODEL NAME : EPH-WS01,EPH-W22,EPH-W32

FCC ID : A6REPHWS01

STANDARD : 47 CFR Part 2.1093

FCC KDB 447498 D01 v05r02

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Ele huan?

JonesTsai

Approved by: Jones Tsai / Manager



Report No.: FA473088

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: A6REPHWS01 Page Number : 1 of 4

Report Issued Date : Sep. 11, 2014
Report Version : Rev. 01

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA473088	Rev. 01	Initial issue of report	Sep. 11, 2014

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1. Administration Data

Testing Laboratory			
Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		

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Applicant			
Company Name	Yamaha Corporation		
Address	10-1 Nakazawa-cho, Naka-Ku, Hamamatsu, Shizuoka 430-8650, Japan		

Manufacturer			
Company Name	Merry Electronics (SHENZHEN) Co., Ltd.		
Address	Merry Ind. Park Hua Rong Rd., DaLang, BaoAn ShenZhen 518109 China		

2. General Information

FCC ID: A6REPHWS01

2.1 Description of Device Under Test (DUT)

Product Feature & Specification			
DUT Type Earphones			
Brand Name	ҮАМАНА		
Model Name EPH-WS01,EPH-W22,EPH-W32			
FCC ID	A6REPHWS01		
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz		
Mode	Bluetooth v3.0+EDR, Bluetooth v4.0-LE		
Antenna Type	Monopole Antenna		
DUT Stage	Production Unit		

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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3. Maximum RF output power among production units

Mode	Maximum Average Power (dBm)
Bluetooth v3.0+EDR	4.0
Bluetooth v4.0+LE	9.0

4. RF Exposure Evaluation

Bluetooth	mW	Separation	Frequency	Exclusion
Max Power (dBm)		Distance (mm)	(GHz)	Thresholds
9	8.0	5	2.48	2.52

Note:

 Per KDB 447498 D01v05r02, 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:

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

- · f(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

Conclusion: Per KDB 447498 D01v05r02, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 2.52 which is <= 3, SAR testing is not required.

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