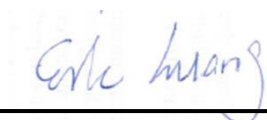


RF Exposure Evaluation Report

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



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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



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Revision History

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

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

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

2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	Earphones
Brand Name	YAMAHA
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.

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

Note:

1. 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:

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

- $f(\text{GHz})$ 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

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.