

Test report No.

: 28LE0031-HO-01-A

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Issued date FCC ID

: October 16, 2008 : A6RPDX50TXA

# **RADIO TEST REPORT**

Test Report No.: 28LE0031-HO-01-A

**Applicant** 

YAMAHA CORPORATION

**Type of Equipment** 

Transmitter

Model No.

PDX-50TX

FCC ID

A6RPDX50TXA

**Test regulation** 

FCC Part 15 Subpart C 2008

Section 15.207, Section 15.247

**Test Result** 

Complied

- 1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
- 2. The results in this report apply only to the sample tested.
- 3. This sample tested is in compliance with the above regulation.
- 4. The test results in this report are traceable to the national or international standards.
- 5. This test report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Date of test:

September 29 to October 3, 2008

Tested by:

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NVLAP LAB CODE: 200572-0

This laboratory is accredited by the NVLAP LAB CODE 200572-0, U.S.A. The tests reported herein have been performed in accordance with its terms of accreditation.

\*As for the range of Accreditation in NVLAP, you may refer to the WEB address, http://uljapan.co.jp/emc/nvlap.html

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## **SECTION 1: Customer information**

Company Name : YAMAHA CORPORATION

Address : 10-1 Nakazawa-cho, Naka-ku, Hamamatsu , Shizuoka 430-8650, Japan

Telephone Number : +81-53-460-3320 Facsimile Number : +81-53-460-2878 Contact Person : Akira Urushibata

## **SECTION 2: Equipment under test (E.U.T.)**

#### 2.1 Identification of E.U.T.

Type of Equipment : Transmitter
Model No. : PDX-50TX
Serial No. : Tx229, Tx245

Rating : AC120V/60Hz (with Cradle)

DC3.3V (without Cradle)

Receipt Date of Sample : August 18 and September 11, 2008

Country of Mass-production : China

Condition of EUT : Engineering prototype

(Not for Sale: This sample is equivalent to mass-produced items.)

Modification of EUT : No Modification by the test lab

## 2.2 Product Description

Model No: PDX-50TX, referred to as the EUT in this report, is a Transmitter.

This EUT is with iPod & iPhone dock connector which enable wireless audio playback to speaker (PDX-50).

| Clock Frequencies              | 12.288MHz (Reference for RF), 24.576MHz (Audio CODEC) |
|--------------------------------|---|
| Frequency of Operation         | 2405.376MHz - 2473.984MHz                             |
| Type of Modulation             | GFSK  |
| Antenna Type                   | ceramic multilayer SMD type antenna                   |
|                                | CAN4311115002451K(YAGEO)                              |
| Antenna Gain                   | -1.24dBi  |
| Antenna Connector Type         | N/A   |
| Mathod of frequency generation | Crystal   |
| Power Supply (inner)           | DC 3.3V   |

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## **SECTION 3: Test specification, procedures & results**

### 3.1 Test Specification

Test Specification : FCC Part15 Subpart C: 2008, final revised on May 19, 2008

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional

Radiators

Section 15.207 Conducted limits

Section 15.247 Operation within the bands 902-928MHz,

2400-2483.5MHz, and 5725-5850MHz

## FCC 15.31 (e)

This EUT(a plug-in radio device) is provided with stable voltage(DC3.3V) constantly to RF Module regardless of input voltage via host equipment (iPod). Therefore, this EUT complies with the requirement.

#### FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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#### 3.2 Procedures and results

[DSSS and other forms of modulation]

| No. | Item                         | Test Procedure  | Specification                                  | Remarks                | Deviation | Worst margin   | Results  |
|-----|------------------------------|---|--|------------------------|-----------|--|----------|
| 1   | Conducted emission           | FCC: ANSI C63.4:2003 7. AC powerline conducted emission measurements  | FCC: Section 15.207                            | Conducted              | N/A       | [Tx]<br><qp><br/>16.4dB</qp>   | Complied |
|     |                              | IC: RSS-Gen 7.2.2   | IC: RSS-Gen 7.2.2                              |                        |           | 0.21176MHz, N<br><av><br/>14.4dB<br/>0.48690MHz, N<br/>0.56655MHz, N<br/>[Rx]<br/><qp><br/>16.4dB<br/>0.21185MHz, N<br/><av><br/>14.1dB</av></qp></av> |          |
|     |                              |   |  |                        |           | 0.56375MHz, N  |          |
| 2   | 6dB Bandwidth                | FCC: "Guidance on<br>Measurement of Digital<br>Transmission Systems<br>Operating under<br>Section15.247"<br>IC: RSS-Gen 4.6.2 | FCC: Section 15.247(a)(2)  IC: RSS-210 A8.2(a) | Conducted              | N/A       | See data.  | Complied |
| 3   | Maximum Peak<br>Output Power | FCC: "Guidance on<br>Measurement of Digital<br>Transmission Systems<br>Operating under<br>Section15.247"<br>IC: RSS-Gen 4.8   | FCC: Section 15.247(b)(3)  IC: RSS-210 A8.4(4) | Conducted              | N/A       |  | Complied |
| 4   | Restricted Band<br>Edges     | FCC: "Guidance on<br>Measurement of Digital<br>Transmission Systems<br>Operating under<br>Section15.247"                      | FCC: Section 15.247 (d)  IC: RSS-210 A8.5      | Conducted/<br>Radiated | N/A       |  | Complied |
| 5   | Power Density                | FCC: "Guidance on<br>Measurement of Digital<br>Transmission Systems<br>Operating under<br>Section15.247"                      | FCC: Section 15.247 (e)                        | Conducted              | N/A       |  | Complied |
| 6   | Spurious<br>Emission         | FCC: "Guidance on<br>Measurement of Digital<br>Transmission Systems<br>Operating under<br>Section15.247"                      | FCC: Section15.247(d)                          | Conducted/<br>Radiated | N/A       | [Tx]<br>0.6dB<br>44.540MHz, QP<br>Vertical<br>(With Cradle)  | Complied |
|     |                              | IC: RSS-Gen 4.9<br>RSS-Gen 4.10   | IC: RSS-210 A8.5<br>RSS-Gen 7.2.1 and 7.2.3    |                        |           | [Rx]<br>1.5dB<br>43.860MHz, QP<br>Vertical<br>(With Cradle)  |          |

<sup>\*</sup>These tests were performed without any deviations from test procedure except for addition or exclusion.

\* In case any questions arise about test procedure, ANSI C63.4: 2003 is also referred.

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### 3.3 Addition to standards

| No. | Item         | Test Procedure    | Specification     | Remarks   | Deviation | Worst margin | Results |
|-----|--------------|-------------------|-------------------|-----------|-----------|--------------|---------|
| 1   | 99% Occupied | IC: RSS-Gen 4.6.1 | IC: RSS-Gen 4.6.1 | Conducted | N/A       | N/A          | N/A     |
|     | Bandwidth    |                   |                   |           |           |              |         |

## 3.4 Uncertainty

#### **EMI**

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

| The following uncertainties have been curculated to provide a confidence level of 25% using a coverage factor & 2. |                               |       |                   |                           |       |                |         |       |        |
|--|-------------------------------|-------|-------------------|---------------------------|-------|----------------|---------|-------|--------|
|  | Conducted   Radiated emission |       | Radiated emission |                           |       | Radi           | ated    |       |        |
|  | emission                      |       | (10m*)            | $\mathbf{n}^*) \tag{3m*}$ |       | (3m*) emission |         | sion  |        |
| Test room  |                               |       |                   |                           |       |                |         | (3n   | ı*)    |
|  | 150kHz-                       | 9kHz- | 30MHz-            | 300MHz-                   | 9kHz- | 30MHz-         | 300MHz- | 1GHz- | 18GHz- |
|  | 30MHz                         | 30MHz | 300MHz            | 1GHz                      | 30MHz | 300MHz         | 1GHz    | 18GHz | 40GHz  |
| No.1   | 3.7dB                         | 3.1dB | 4.4dB             | 4.2dB                     | 3.2dB | 3.8dB          | 3.9dB   | 5.9dB | 6.1dB  |
| semi-anechoic  |                               |       |                   |                           |       |                |         |       |        |
| Chamber (±)  |                               |       |                   |                           |       |                |         |       |        |
| No.2   | 3.7dB                         | -     | -                 | -                         | 3.2dB | 4.4dB          | 4.0dB   | 5.9dB | 6.1dB  |
| semi-anechoic  |                               |       |                   |                           |       |                |         |       |        |
| chamber (±)  |                               |       |                   |                           |       |                |         |       |        |
| No.3   | 3.7dB                         | -     | -                 | -                         | 3.2dB | 4.6dB          | 4.0dB   | 5.9dB | 6.1dB  |
| semi-anechoic  |                               |       |                   |                           |       |                |         |       |        |
| chamber (±)  |                               |       |                   |                           |       |                |         |       |        |
| No.4   | 3.7dB                         | -     | -                 | -                         | 3.2dB | 3.9dB          | 3.9dB   | 5.9dB | 6.1dB  |
| semi-anechoic  |                               |       |                   |                           |       |                |         |       |        |
| chamber (±)  |                               |       |                   |                           |       |                |         |       |        |

<sup>\*10</sup>m/3m = Measurement distance

### Conducted emission test

The data listed in this test report has enough margin, more than the site margin.

#### Radiated emission test(3m)

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

## Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty for this test is 3.0dB.

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#### 3.5 Test Location

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|                            | FCC<br>Registration<br>Number | IC Registration<br>Number | Width x Depth x<br>Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Other<br>rooms              |
|----------------------------|-------------------------------|---------------------------|-------------------------------|--|-----------------------------|
| No.1 semi-anechoic chamber | 313583                        | 2973C-1                   | 19.2 x 11.2 x 7.7m            | 7.0 x 6.0m   | No.1 Power source room      |
| No.2 semi-anechoic chamber | 655103                        | 2973C-2                   | 7.5 x 5.8 x 5.2m              | 4.0 x 4.0m   | -                           |
| No.3 semi-anechoic chamber | 148738                        | 2973C-3                   | 12.0 x 8.5 x 5.9m             | 6.8 x 5.75m  | No.3<br>Preparation<br>room |
| No.3 shielded room         | -                             | -                         | 4.0 x 6.0 x 2.7m              | N/A  | -                           |
| No.4 semi-anechoic chamber | 134570                        | 2973C-4                   | 12.0 x 8.5 x 5.9m             | 6.8 x 5.75m  | No.4<br>Preparation<br>room |
| No.4 shielded room         | -                             | -                         | 4.0 x 6.0 x 2.7m              | N/A  | -                           |
| No.5 semi-anechoic chamber | -                             | -                         | 6.0 x 6.0 x 3.9m              | 6.0 x 6.0m   | -                           |
| No.6 shielded room         | -                             | -                         | 4.0 x 4.5 x 2.7m              | 4.75 x 5.4 m   | -                           |
| No.6 measurement room      | -                             | -                         | 4.75 x 5.4 x 3.0m             | 4.75 x 4.15 m  | -                           |
| No.7 shielded room         | -                             | -                         | 4.7 x 7.5 x 2.7m              | 4.7 x 7.5m   | -                           |
| No.8 measurement room      | -                             | -                         | 3.1 x 5.0 x 2.7m              | N/A  | -                           |
| No.9 measurement room      | -                             | -                         | 8.0 x 4.5 x 2.8m              | 2.0 x 2.0m   | -                           |
| No.10 measurement room     | -                             | -                         | 2.6 x 2.8 x 2.5m              | 2.4 x 2.4m   | -                           |
| No.11 measurement room     | -                             | -                         | 3.1 x 3.4 x 3.0m              | 2.4 x 3.4m   | -                           |

<sup>\*</sup> Size of vertical conducting plane (for Conducted Emission test): 2.0 x 2.0m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

## 3.6 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

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## **SECTION 4: Operation of E.U.T. during testing**

## 4.1 **Operating Mode(s)**

| Test Item                    | Operating Mode             | Tested frequency |
|------------------------------|----------------------------|------------------|
| Conducted emission,          | Transmitting (Tx) mode *1) | 2405.376MHz(L)   |
| Spurious Emission            |                            | 2436.096MHz(M)   |
|                              |                            | 2473.984MHz(H)   |
|                              | Receiving (Rx) mode        | 2436.096MHz(M)   |
| 6dB Bandwidth,               | Transmitting (Tx) mode *1) | 2405.376MHz(L)   |
| Maximum Peak Output Power,   |                            | 2436.096MHz(M)   |
| Power Density,               |                            | 2473.984MHz(H)   |
| 99% Occupied Bandwidth       |                            |                  |
| Conducted emission Band Edge | Transmitting (Tx) mode *1) | 2405.376MHz(L)   |
| Compliance                   |                            | 2473.984MHz(H)   |

<sup>\*1)</sup> The EUT transmits with GFSK modulated and 100% Duty of Pulse.

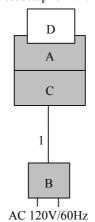
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## 4.2 Configuration and peripherals

Test setup for With Cradle



Test setup for Without Cradle



\* Cabling and setup were taken into consideration and test data was taken under worse case conditions.

**Description of EUT and Support equipment** 

| No. | Item           | Model number    | Serial number | Manufacturer       | Remark |
|-----|----------------|-----------------|---------------|--------------------|--------|
| A   | Transmitter    | PDX-50TX        | Tx229 *1),    | HOSIDEN            | EUT    |
|     |                |                 | Tx245 *2)     |                    |        |
| В   | AC Adapter     | MU12-2050100-A1 | BC-3          | LEADER ELECTRONICS | EUT    |
|     |                |                 |               | INC.               |        |
| С   | Battery Cradle | PDX-50BC        | 226           | HOSIDEN            | EUT    |
| D   | iPod           | A1238           | 8L82296QY5N   | apple              | _      |

<sup>\*1)</sup> Used for Antenna terminal tests

## List of cables used

| No. | Name     | Length (m) | Shield     |            | Remark |
|-----|----------|------------|------------|------------|--------|
|     |          |            | Cable      | Connector  |        |
| 1   | DC Cable | 1.8        | Unshielded | Unshielded | -      |

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<sup>\*2)</sup> Used for Conducted emission and Spurious emission test (Radiated)

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#### **SECTION 5: Conducted Emission**

## **Test Procedure and conditions**

EUT was placed on a urethane platform of nominal size, 0.5m by 1.0m, raised 0.8m above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

#### For the tests on EUT with other peripherals (as a whole system)

DC cable was bundled in center and was folded back and forth forming a bundle 30cm to 40cm long and was hanged at a 40cm height to the ground plane.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Detector : quasi-peak and average detector (IF BW 9 kHz)

Measurement range : 0.15-30MHz Test data : APPENDIX 2

Test result : Pass

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## **SECTION 6: Spurious Emission**

#### [Conducted]

#### **Test Procedure**

The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

It was measured based on "1. RF antenna conducted test" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".

The following spectrum analyzer setting was used:

RBW: 100kHz
VBW: 300kHz
Sweep: Auto
Detector: Peak
Trace: Max Hold

Test data : APPENDIX 2

Test result : Pass

#### [Radiated]

#### **Test Procedure**

It was measured based on "2. Radiated emission test" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".

EUT was placed on a urethane platform of nominal size, 0.5m by 1.0m, raised 0.8m above the conducting ground plane. The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).

The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

In any 100kHz bandwidth outside the restricted band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

## 20dBc was applied to the frequency over the limit of FCC 15.209 / Table 2 of RSS-210 2.7 (IC) and outside the restricted band of FCC15.205 / Table 1 of RSS-210 2.7 (IC).

| Frequency       | Below 1GHz                        | Above 1GHz                     |
|-----------------|-----------------------------------|--------------------------------|
| Instrument used | Test Receiver / Spectrum Analyzer | Spectrum Analyzer              |
| Detector        | QP: BW 120kHz(T/R)                | PK: RBW: 1MHz/VBW: 1MHz        |
| IF Bandwidth    |                                   | AV: RBW: 1MHz/VBW: 10Hz        |
|                 |                                   | 20dBc: RBW: 100kHz/VBW: 300kHz |

<sup>-</sup> The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Test data : APPENDIX 2

Test result : Pass

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## **SECTION 7: Bandwidth**

#### 6dB Bandwidth

#### **Test Procedure**

The bandwidth was measured with a spectrum analyzer connected to the antenna port.

It was measured based on "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247". The following spectrum analyzer setting was used:

Span: 20MHz
RBW: 100kHz
VBW: 300kHz
Sweep: Auto
Detector: Peak
Trace: Max Hold

Test data : APPENDIX 2

Test result : Pass

#### 99% Occupied Bandwidth

#### **Test Procedure**

The bandwidth was measured with a spectrum analyzer connected to the antenna port. The following spectrum analyzer setting was used:

- Span: Enough width to display 20dB Bandwidth

- RBW: as close to 1% of the Span as is possible without being below 1%

- VBW: Three times of RBW

Sweep: AutoDetector: PeakTrace: Max Hold

Test data : APPENDIX 2

Test result : Pass

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## **SECTION 8: Maximum Peak Output Power**

#### **Test Procedure**

The Maximum Peak Output Power was measured with a power meter (tested bandwidth: 50MHz) connected to the antenna port.

It was measured based on "Power Output Option 1" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".

Test data : APPENDIX 2

Test result : Pass

## **SECTION 9: Peak Power Density**

## [Conducted]

#### **Test Procedure**

The Peak Power Density was measured with a spectrum analyzer connected to the antenna port.

It was measured based on "PSD Option 1" of "Guidance on Measurement of Digital Transmission Systems Operating under Section15.247".

Test data : APPENDIX 2

Test result : Pass

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