



# **RADIO TEST REPORT**

**Test Report No.: 10334251S-C-R1**

**Applicant** : NINTENDO CO., LTD.  
**Type of Equipment** : Portable Game Machine with Wireless LAN  
**Model No.** : RED-001  
**FCC ID** : BKERED001  
**Test regulation** : FCC Part15 Subpart C: 2014  
**Test result** : Complied

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2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the limits of the above regulation.
4. The test results in this test 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 any agency of the Federal Government.
6. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.
7. This report is a revised version of 10334251S-C. 10334251S-C is replaced with this report.

**Date of test:** June 19 to July 1, 2014

**Tested by:** 

Akio Hayashi  
Engineer  
Consumer Technology Division

**Approved by :** 

Toyokazu Imamura  
Leader  
Consumer Technology Division



- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.  
☒ There is no testing item of "Non-accreditation".

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13-EM-F0429

## REVISION HISTORY

**Original Test Report No.: 10334251S-C-R1**

[illegible]

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## **Contents**

|                                                                        | <b><u>Page</u></b> |
|------------------------------------------------------------------------|--------------------|
| SECTION 1: Customer information .....                                  | 4                  |
| SECTION 2: Equipment under test (E.U.T.) .....                         | 4                  |
| SECTION 3: Test specification, procedures & results .....              | 5                  |
| SECTION 4: Operation of E.U.T. during testing.....                     | 7                  |
| SECTION 5: Conducted emission .....                                    | 9                  |
| SECTION 6: Radiated emission (Fundamental and Spurious emission) ..... | 10                 |
| SECTION 7: 20dB bandwidth & Occupied bandwidth (99%).....              | 12                 |
| SECTION 8: Frequency tolerances .....                                  | 12                 |
| Contents of APPENDIXES.....                                            | 13                 |
| APPENDIX 1: Data of radio tests.....                                   | 14                 |
| APPENDIX 2: Test instruments .....                                     | 52                 |
| APPENDIX 3: Photographs of test setup.....                             | 53                 |

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## **SECTION 1: Customer information**

Company Name : NINTENDO CO., LTD.  
Brand name : Nintendo  
Address : 11-1 Hokotate-cho, Kamitoba, Minami-ku, Kyoto 601-8501, Japan  
Telephone Number : +81-075-662-9600  
Facsimile Number : +81-075-662-9624  
Contact Person : Kazuya Kuramoto

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

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

Type of Equipment : Portable Game Machine with Wireless LAN  
Model No. : RED-001  
Serial No. : Refer to 4.2 in this report.  
Rating : AC 100V – 240V(AC Adaptor)  
Country of Mass-production : China  
Condition of EUT : Production prototype  
(Not for Sale: This sample is equivalent to mass-produced items.)  
Modification of EUT : No modification by the test lab.  
Receipt Date of Sample : May 12, 2014

### **2.2 Product description**

Model: RED-001 (referred to as the EUT in this report) is a Portable Game Machine with Wireless LAN.

Clock frequency(ies) in the system : 804.33MHz

Radio specification [W-LAN (IEEE802.11b/g)] (Refer to test report 10334251S-A)

Equipment type : Transceiver  
Frequency of operation : 2412-2472MHz for IEEE802.11b,  
2412-2462MHz for IEEE802.11g  
Bandwidth & channel spacing : 20MHz & 5MHz  
Type of modulation : DSSS, OFDM  
Antenna type : PIFA Antenna(Model name: ANT/WIFI/MIT-RED)  
Antenna gain : -0.01dBi  
Antenna connector type : 20270\_001E\_01  
Operation temperature range : 5 to +35 deg.C.

[Radio specification [NFC]]

Radio Type : Transceiver  
Frequency of Operation : 13.56MHz  
Modulation : ASK 100% (type A), ASK 10% (type B, F)  
Antenna type : Print pattern antenna  
ITU code : A1D  
Operating Temperature : 5 to +35 deg C.

FCC 15.31 (e)

The stable voltage (DC3.3V, DC 1.8V and DC 1.2V) is provided constantly to RF part via regulator. Therefore, the EUT complies with the requirement.

FCC 15.203

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

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## SECTION 3: Test specification, procedures & results

### 3.1 Test specification

Test specification : FCC Part 15 Subpart C: 2014,  
final revised on May 1, 2014 and effective June 2, 2014  
Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators  
Section 15.207 Conducted limits  
Section 15.209 Radiated emission limits, general requirements  
Section 15.215 Additional provisions to the general radiated emission limitations  
Section 15.225 Operation within the band 13.110-14.010MHz

### 3.2 Procedures & Results

| Item                                                                                | Test Procedure                                                     | Specification                | Remarks  | Deviation | Worst Margin                                                                                                                                            | Results  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------|----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Conducted emission                                                                  | ANSI C63.4:2009<br>7. AC powerline conducted emission measurements | FCC 15.207                   | -        | N/A       | 7.0dB<br>Detector: Quasi-Peak<br>Phase: N<br>Freq.: 0.97019MHz<br>Nichicon's AC adaptor, X'tal A<br>Freq.: 0.96831MHz<br>Nichicon's AC adaptor, X'tal B | Complied |
| Electric field strength of Fundamental emission                                     | ANSI C63.4:2009<br>13. Measurement of intentional radiators        | FCC 15.225 (a)               | Radiated | N/A       | 64.9dB<br>Polarization: Vertical<br>Tabuchi's AC adaptor, X'tal B                                                                                       | Complied |
| Electric field strength of Spurious emission (within the 13.110-14.010MHz band)     | ANSI C63.4:2009<br>13. Measurement of intentional radiators        | FCC 15.225 (b)(c)            | Radiated | N/A       | 45.0dB<br>Freq.: 13.553MHz<br>Polarization: Vertical<br>Tabuchi's AC adaptor X'tal B                                                                    | Complied |
| Electric field strength of Spurious emission (outside of the 13.110-14.010MHz band) | ANSI C63.4:2009<br>13. Measurement of intentional radiators        | FCC 15.209<br>FCC 15.225 (d) | Radiated | N/A       | 9.6dB<br>Freq.: 52.37MHz<br>Polarization: Vertical                                                                                                      | Complied |
| 20dB bandwidth                                                                      | ANSI C63.4:2009<br>13. Measurement of intentional radiators        | FCC 15.215 (c)               | Radiated | N/A       | -                                                                                                                                                       | -        |
| Frequency tolerance                                                                 | ANSI C63.4:2009<br>13. Measurement of intentional radiators        | FCC 15.225 (e)               | Radiated | N/A       | -                                                                                                                                                       | Complied |

Note: UL Japan's Work Procedures No. 13-EM-W0420 and 13-EM-W0422

### 3.3 Addition to standard

| Item                     | Test Procedure                                                             | Specification | Remarks  | Worst Margin | Results |
|--------------------------|----------------------------------------------------------------------------|---------------|----------|--------------|---------|
| Occupied Bandwidth (99%) | ANSI C63.4:2009<br>13. Measurement of intentional radiators, RSS-Gen 4.6.1 | RSS-Gen 4.6.1 | Radiated | -            | -       |

Note: UL Japan's Work Procedures No. 13-EM-W0420 and 13-EM-W0422

\* Other than above, no addition, exclusion nor deviation has been made from the standard.

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### 3.4 Uncertainty

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

| Item                                            | Frequency range | No.1 SAC <sup>*1</sup> /SR <sup>*2</sup><br>(±) | No.2 SAC/SR<br>(±) | No.3 SAC/SR<br>(±) |
|-------------------------------------------------|-----------------|-------------------------------------------------|--------------------|--------------------|
| Conducted emission<br>(AC Mains) AMN/LISN       | 150kHz-30MHz    | 3.6 dB                                          | 3.6 dB             | 3.5 dB             |
| Radiated emission<br>(Measurement distance: 3m) | 9kHz-30MHz      | 3.7 dB                                          | 3.7 dB             | 3.6 dB             |
|                                                 | 30MHz-300MHz    | 4.9 dB                                          | 5.1 dB             | 4.9 dB             |
|                                                 | 300MHz-1GHz     | 5.0 dB                                          | 5.2 dB             | 4.9 dB             |

\*1: SAC=Semi-Anechoic Chamber

\*2: SR= Shielded Room is applied besides radiated emission

#### Conducted emission test

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

#### Radiated emission test

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

#### Frequency tolerance

Frequency (Normal condition) Measurement uncertainty for this test was: (±)  $7.9 \times 10^{-8}$ .

Frequency (Extreme condition) Measurement uncertainty for this test was: (±)  $7.9 \times 10^{-8}$ .

#### Other tests

Bandwidth Measurement uncertainty for this test was: (±) 5.4%

### 3.5 Test location

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JAB Accreditation No. : RTL02610

|                                                                | IC<br>Registration<br>No. | Width x Depth x<br>Height (m) | Size of reference<br>ground plane (m) /<br>horizontal<br>conducting plane | Maximum<br>measuremen<br>t distance |
|----------------------------------------------------------------|---------------------------|-------------------------------|---------------------------------------------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> No.1 Semi-anechoic chamber | 2973D-1                   | 20.6 x 11.3 x 7.65            | 20.6 x 11.3                                                               | 10m                                 |
| <input type="checkbox"/> No.2 Semi-anechoic chamber            | 2973D-2                   | 20.6 x 11.3 x 7.65            | 20.6 x 11.3                                                               | 10m                                 |
| <input checked="" type="checkbox"/> No.3 Semi-anechoic chamber | 2973D-3                   | 12.7 x 7.7 x 5.35             | 12.7 x 7.7                                                                | 5m                                  |
| <input type="checkbox"/> No.4 Semi-anechoic chamber            | -                         | 8.1 x 5.1 x 3.55              | 8.1 x 5.1                                                                 | -                                   |
| <input type="checkbox"/> No.1 shielded room                    | -                         | 6.8 x 4.1 x 2.7               | 6.8 x 4.1                                                                 | -                                   |
| <input type="checkbox"/> No.2 shielded room                    | -                         | 6.8 x 4.1 x 2.7               | 6.8 x 4.1                                                                 | -                                   |
| <input checked="" type="checkbox"/> No.3 shielded room         | -                         | 6.3 x 4.7 x 2.7               | 6.3 x 4.7                                                                 | -                                   |
| <input type="checkbox"/> No.4 shielded room                    | -                         | 4.4 x 4.7 x 2.7               | 4.4 x 4.7                                                                 | -                                   |
| <input checked="" type="checkbox"/> No.5 shielded room         | -                         | 7.8 x 6.4 x 2.7               | 7.8 x 6.4                                                                 | -                                   |
| <input type="checkbox"/> No.6 shielded room                    | -                         | 7.8 x 6.4 x 2.7               | 7.8 x 6.4                                                                 | -                                   |
| <input type="checkbox"/> No.1 Measurement room                 | -                         | 2.55 x 4.1 x 2.5              | -                                                                         | -                                   |

### 3.6 Test setup, Data of test & Test instruments

Refer to APPENDIX 1 to 3.

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

### **4.1 Operating mode**

The EUT exercise program used during testing was designed to exercise the various system components in a manner similar to typical use.

| Test item                                 | Operating mode                                                          | Tested frequency |
|-------------------------------------------|-------------------------------------------------------------------------|------------------|
| All items except for Frequency tolerances | NFC (Type A/B/F) Transmitting,<br>NFC (Type A/B/F) Communication<br>*1) | 13.56MHz         |
| Frequency tolerances                      | Transmitting Unmodulated                                                | 13.56MHz         |

\*1) The carrier level and noise levels were confirmed with and without IC Tag (type A, B or F), and the test was made with the mode as follows.

Combinations of the worst case

| Test item | Conducted emission                             | Radiated emission*1)<br>(Carrier)            | Radiated emission*1)<br>(Below 30MHz)        | Radiated emission*1)<br>(Above 30MHz)        |
|-----------|------------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| Tag type  | NFC Type A<br>Transmitting<br>(Without IC Tag) | NFC Type B<br>Communication<br>(With IC Tag) | NFC Type B<br>Communication<br>(With IC Tag) | NFC Type B<br>Communication<br>(With IC Tag) |

\*1) In addition to the above, the Type A data is attached.

This test was performed with X'tal A and Mitsumi AC Adaptor as a representative.

Software: Regulation\_140604

**Justification:** The system was configured in typical fashion (as customer would normally use it) for testing.

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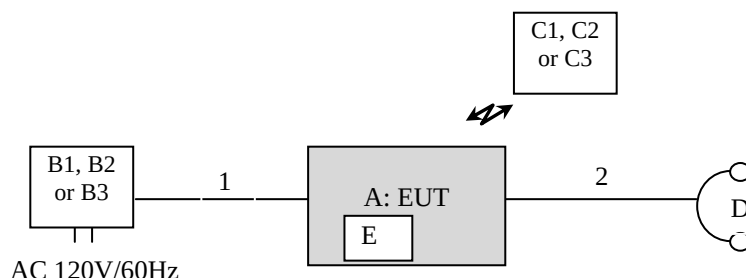
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## 4.2 Configuration and peripherals



\*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  |
|-----------|-----------------------------------------|---------------|---------------|--------------|---------|
| <b>A</b>  | Portable Game Machine with Wireless LAN | RED-001       | *1)           | NINTENDO     | EUT     |
| <b>B1</b> | AC Adaptor                              | WAP-002 (USA) | 1             | Mitsumi      | -       |
| <b>B2</b> | AC Adaptor                              | WAP-002 (USA) | 1             | Nichicon     | -       |
| <b>B3</b> | AC Adaptor                              | WAP-002 (USA) | 1             | Tabuchi      | -       |
| <b>C1</b> | IC Tag                                  | -             | 37            | NINTENDO     | Type A  |
| <b>C2</b> | IC Tag                                  | -             | 31            | NINTENDO     | Type B  |
| <b>C3</b> | IC Tag                                  | -             | 11            | NINTENDO     | Type F  |
| <b>D</b>  | Headphones                              | -             | -             | -            | -       |
| <b>E</b>  | CTR Card                                | CTR-005       | -             | NINTENDO     | E203344 |

\*1) Conducted emission test (Only for 13.56MHz with terminated antenna port): QW09500113 8(X'tal A), QW09500351 3(X'tal B), Other tests: QW09500113 5(X'tal A), QW09500351 1(X'tal B)

### Accessory and model differences

The difference between mode A (X'tal A) and mode B (X'tal B) is that the mode A has crystal part number 340000LA0B, 213000AA0G and Mode B has crystal part number CX3225SB40000C4CEFZ1, CX3225SB13000G0FEFZ1.

The two crystals are compatible and are electrically identical having same radio parameters.

### List of cable used

| No.      | Item       | Length (m) | Shield     | Remark |
|----------|------------|------------|------------|--------|
| <b>1</b> | DC         | 1.9        | Shielded   | -      |
| <b>2</b> | Headphones | 0.8        | Unshielded | -      |

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## **SECTION 5: Conducted emission**

### **5.1 Operating environment**

The test was carried out in a semi-anechoic chamber.

Temperature : Refer to APPENDIX 1.  
Humidity : Refer to APPENDIX 1.

### **5.2 Test configuration**

The EUT was placed on a platform of nominal size, 1.0m by 1.5m, 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 was aligned and was flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface.

The EUT was located 0.8m from Line Impedance Stabilization Network (LISN) and excess AC Cable was bundled in center. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 0.3m to 0.4m long. Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through an LISN to the input power source. All unused 50ohm connectors of the LISN were resistively terminated in 50ohm when not connected to the measuring equipment. Photographs of the set up are shown in Appendix 3.

### **5.3 Test conditions**

Frequency range : 0.15 - 30MHz  
EUT position : Table top

### **5.4 Test procedure**

The AC Mains Terminal Continuous disturbance Voltage had been measured with the EUT via AC adaptor within a semi-anechoic chamber. The EUT via AC adaptor was connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection has been performed.

The measurements had been performed with a quasi-peak detector and if required, a CISPR average detector.

The conducted emission measurements were made with the following detection of the test receiver.

Detection Type : Quasi-Peak/ CISPR-Average  
IF Bandwidth : 9kHz

### **5.5 Results**

Summary of the test results : Pass

Refer to APPENDIX 1.

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## SECTION 6: Radiated emission (Fundamental and Spurious emission)

### 6.1 Operating environment

The test was carried out in a semi-anechoic chamber.

Temperature : Refer to APPENDIX 1.

Humidity : Refer to APPENDIX 1.

### 6.2 Test configuration

EUT was placed on a platform of nominal size, 0.5m by 0.5m, raised 0.8m above the conducting ground plane.

EUT was set up typical spacing for the other equipment. Photographs of the set up are shown in Appendix 3.

### 6.3 Test conditions

Frequency range : 9kHz - 1GHz

Test distance : 3m

EUT position : Table top

### 6.4 Test procedure

The Radiated Electric Field Strength intensity has been measured with a ground plane and at a distance of 3m

Frequency: From 9kHz to 30MHz at distance 3m

The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for vertical polarization (antenna angle: 0deg.to 360deg.) and horizontal polarization. Drawing of the antenna direction is shown in Figure 1.

Frequency: From 30MHz to 1GHz at distance 3m (Refer to Figure 2).

The measuring antenna height was 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.

Measurements were performed with QP, PK, and AV detector.

The radiated emission measurements were made with the following detector function of the test receiver.

|                   | 9kHz to 90kHz &<br>110kHz to 150kHz | 90kHz to<br>110kHz | 150kHz<br>to 490kHz | 490kHz to<br>30MHz | 30MHz to 1GHz                                         |
|-------------------|-------------------------------------|--------------------|---------------------|--------------------|-------------------------------------------------------|
| Detector Type     | PK/AV                               | QP                 | PK/AV               | QP                 | QP                                                    |
| IF Bandwidth      | 200Hz                               | 200Hz              | 9kHz                | 9kHz               | 120kHz                                                |
| Measuring antenna | Loop antenna                        |                    |                     |                    | Biconical (30-299.99MHz)<br>Logperiodic (300MHz-1GHz) |

\* FCC 15.31 (f)(2) (9kHz-30MHz)

9kHz – 490kHz [Limit at 3m]= [Limit at 300m]-40log (3[m]/300[m])

490kHz – 30MHz [Limit at 3m]= [Limit at 30m]-40log (3[m]/30[m])

Combinations of the worst case

|     | Frequency<br>Antenna<br>polarization | Carrier<br>*2) | Spurious    |            | Tag  |
|-----|--------------------------------------|----------------|-------------|------------|------|
|     |                                      |                | Below 30MHz | 30MHz-1GHz |      |
| EUT | Horizontal                           | X              | X           | X          | With |
|     | Vertical                             | Z              | Z           | X          | With |

\*2) with spurious emissions near carrier frequency.

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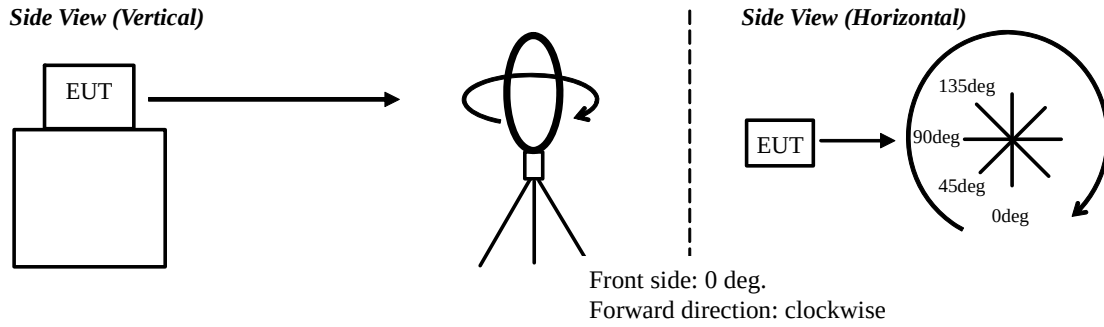
Facsimile : +81 463 50 6401

## 6.5 Results

Summary of the test results : Pass

Refer to APPENDIX 1.

**Figure 1. Direction of the Loop Antenna**



**Top View (Horizontal)**

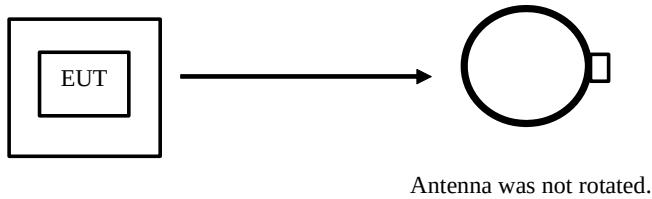
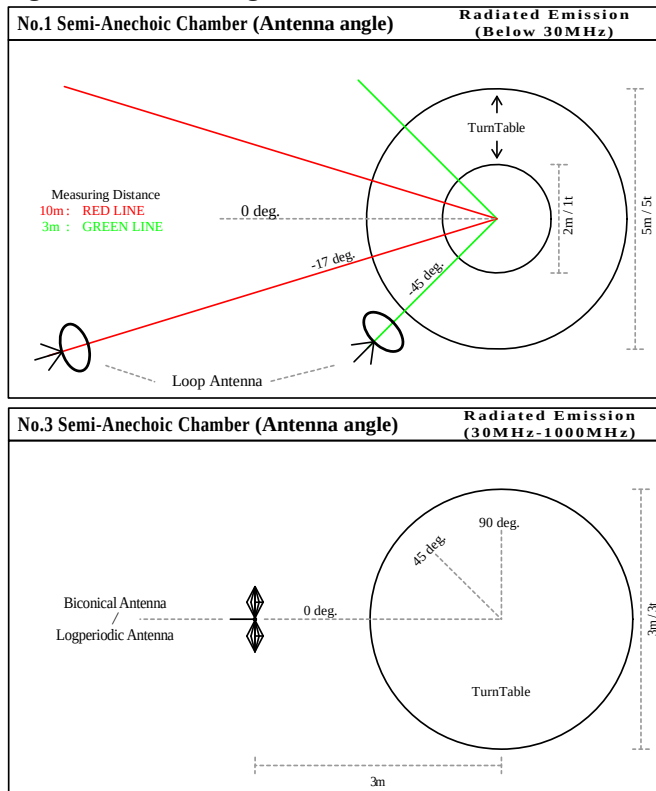


**Figure 2. Antenna angle**



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## **SECTION 7: 20dB bandwidth & Occupied bandwidth (99%)**

### **Test procedure**

The test was measured with a spectrum analyzer using a test fixture.

### **Results**

Summary of the test results: Pass  
Refer to APPENDIX 1.

## **SECTION 8: Frequency tolerances**

### **Test procedure**

The test was measured with a spectrum analyzer using a test fixture.  
The temperature test was started after the temperature stabilization time of 30 minutes.  
The test was begun from 50 deg.C and the temperature was lowered each 10 deg.C.

### **Results**

Summary of the test results: Pass  
Refer to APPENDIX 1.

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## **Contents of APPENDIXES**

### **APPENDIX 1: Data of Radio tests**

Conducted emission  
Radiated emission  
Frequency tolerance  
Bandwidth

### **APPENDIX 2: Test instruments**

Test instruments

### **APPENDIX 3: Photographs of test setup**

Conducted emission  
Radiated emission

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## DATA OF CONDUCTED EMISSION TEST

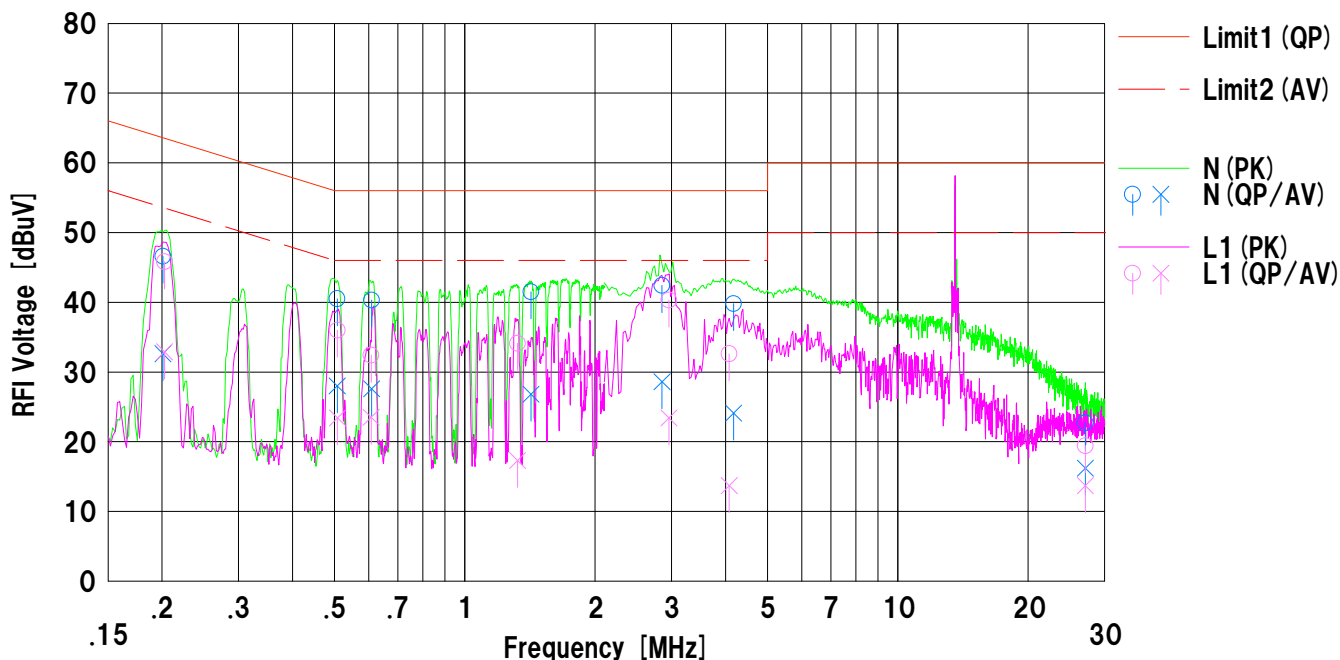
UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500113 5  
Remarks : (Mitsumi's AC adaptor No.1) , X'tal Type A , Tag A , Transmitting

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.20101        | 33.8           | 19.8           | 12.8          | 46.6           | 32.6           | 63.5           | 53.5           | 16.9         | 20.9         | N     |         |
| 2   | 0.50763        | 27.7           | 15.2           | 12.8          | 40.5           | 28.0           | 56.0           | 46.0           | 15.5         | 18.0         | N     |         |
| 3   | 0.60935        | 27.5           | 14.8           | 12.8          | 40.3           | 27.6           | 56.0           | 46.0           | 15.7         | 18.4         | N     |         |
| 4   | 1.42125        | 28.6           | 13.9           | 12.9          | 41.5           | 26.8           | 56.0           | 46.0           | 14.5         | 19.2         | N     |         |
| 5   | 2.85403        | 29.3           | 15.5           | 13.1          | 42.4           | 28.6           | 56.0           | 46.0           | 13.6         | 17.4         | N     |         |
| 6   | 4.17742        | 26.6           | 10.9           | 13.2          | 39.8           | 24.1           | 56.0           | 46.0           | 16.2         | 21.9         | N     |         |
| 7   | 27.12000       | 7.2            | 0.7            | 15.5          | 22.7           | 16.2           | 60.0           | 50.0           | 37.3         | 33.8         | N     |         |
| 8   | 0.20260        | 33.0           | 20.1           | 12.8          | 45.8           | 32.9           | 63.5           | 53.5           | 17.7         | 20.6         | L1    |         |
| 9   | 0.50820        | 23.2           | 10.6           | 12.8          | 36.0           | 23.4           | 56.0           | 46.0           | 20.0         | 22.6         | L1    |         |
| 10  | 0.60814        | 19.6           | 10.7           | 12.8          | 32.4           | 23.5           | 56.0           | 46.0           | 23.6         | 22.5         | L1    |         |
| 11  | 1.32400        | 21.2           | 4.4            | 12.9          | 34.1           | 17.3           | 56.0           | 46.0           | 21.9         | 28.7         | L1    |         |
| 12  | 2.96200        | 27.2           | 10.3           | 13.1          | 40.3           | 23.4           | 56.0           | 46.0           | 15.7         | 22.6         | L1    |         |
| 13  | 4.08150        | 19.4           | 0.5            | 13.2          | 32.6           | 13.7           | 56.0           | 46.0           | 23.4         | 32.3         | L1    |         |
| 14  | 27.12000       | 3.9            | -1.8           | 15.5          | 19.4           | 13.7           | 60.0           | 50.0           | 40.6         | 36.3         | L1    |         |

Calculation:Result [dBuV] =Reading [dBuV] +C.Fac (LISN+Cable+ATT) [dB]  
LISN: SLS-02-E

# DATA OF CONDUCTED EMISSION TEST

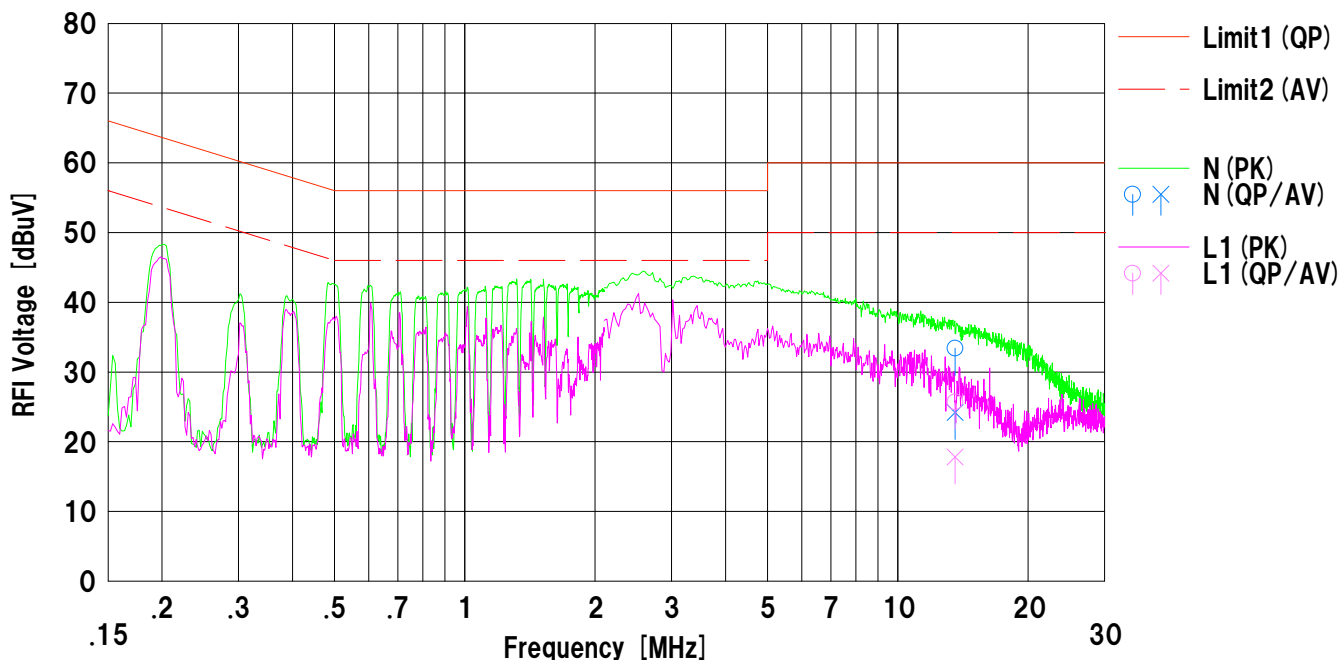
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500113 8  
Remarks : (Mitsumi's AC adaptor No.1), X'tal Type A, Tag A, Transmitting (antenna terminated)

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 13.56000       | 18.9           | 9.7            | 14.5          | 33.4           | 24.2           | 60.0           | 50.0           | 26.6         | 25.8         | N     |         |
| 2   | 13.56000       | 11.2           | 3.3            | 14.5          | 25.7           | 17.8           | 60.0           | 50.0           | 34.3         | 32.2         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

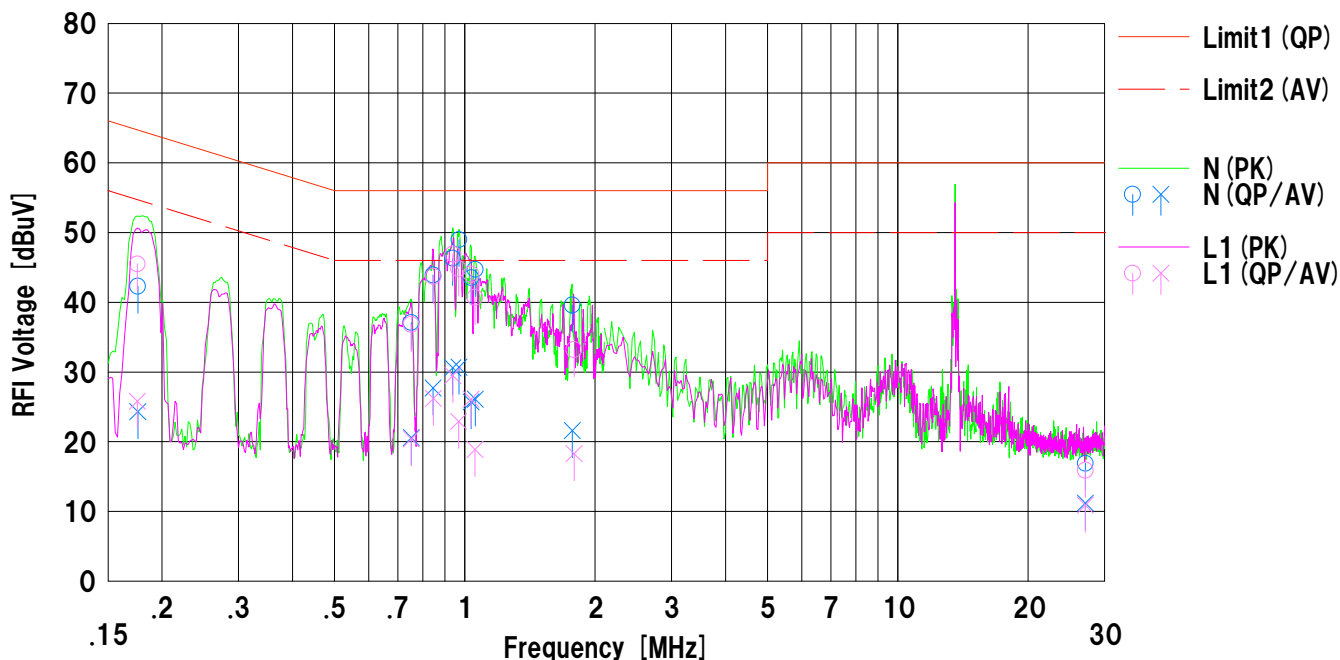
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500113 5  
Remarks : (Nichicon's AC adaptor No.1), X'tal Type A , Tag A , Transmitting

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.17574        | 29.5           | 11.5           | 12.8          | 42.3           | 24.3           | 64.6           | 54.6           | 22.3         | 30.3         | N     |         |
| 2   | 0.75256        | 24.3           | 7.8            | 12.8          | 37.1           | 20.6           | 56.0           | 46.0           | 18.9         | 25.4         | N     |         |
| 3   | 0.84470        | 31.1           | 14.9           | 12.8          | 43.9           | 27.7           | 56.0           | 46.0           | 12.1         | 18.3         | N     |         |
| 4   | 0.93768        | 33.5           | 17.8           | 12.8          | 46.3           | 30.6           | 56.0           | 46.0           | 9.7          | 15.4         | N     |         |
| 5   | 0.97019        | 36.1           | 17.8           | 12.9          | 49.0           | 30.7           | 56.0           | 46.0           | 7.0          | 15.3         | N     |         |
| 6   | 1.03456        | 30.6           | 12.8           | 12.9          | 43.5           | 25.7           | 56.0           | 46.0           | 12.5         | 20.3         | N     |         |
| 7   | 1.05726        | 31.8           | 13.2           | 12.9          | 44.7           | 26.1           | 56.0           | 46.0           | 11.3         | 19.9         | N     |         |
| 8   | 1.77074        | 26.6           | 8.6            | 13.0          | 39.6           | 21.6           | 56.0           | 46.0           | 16.4         | 24.4         | N     |         |
| 9   | 27.12000       | 1.4            | -4.3           | 15.5          | 16.9           | 11.2           | 60.0           | 50.0           | 43.1         | 38.8         | N     |         |
| 10  | 0.17543        | 32.7           | 13.0           | 12.8          | 45.5           | 25.8           | 64.6           | 54.6           | 19.1         | 28.8         | L1    |         |
| 11  | 0.75251        | 24.0           | 7.6            | 12.8          | 36.8           | 20.4           | 56.0           | 46.0           | 19.2         | 25.6         | L1    |         |
| 12  | 0.84633        | 30.9           | 13.4           | 12.8          | 43.7           | 26.2           | 56.0           | 46.0           | 12.3         | 19.8         | L1    |         |
| 13  | 0.93927        | 34.1           | 16.7           | 12.8          | 46.9           | 29.5           | 56.0           | 46.0           | 9.1          | 16.5         | L1    |         |
| 14  | 0.96880        | 31.9           | 10.0           | 12.9          | 44.8           | 22.9           | 56.0           | 46.0           | 11.2         | 23.1         | L1    |         |
| 15  | 1.03424        | 31.1           | 13.2           | 12.9          | 44.0           | 26.1           | 56.0           | 46.0           | 12.0         | 19.9         | L1    |         |
| 16  | 1.05585        | 27.8           | 6.0            | 12.9          | 40.7           | 18.9           | 56.0           | 46.0           | 15.3         | 27.1         | L1    |         |
| 17  | 1.78788        | 20.2           | 5.3            | 13.0          | 33.2           | 18.3           | 56.0           | 46.0           | 22.8         | 27.7         | L1    |         |
| 18  | 27.12000       | 0.4            | -4.6           | 15.5          | 15.9           | 10.9           | 60.0           | 50.0           | 44.1         | 39.1         | L1    |         |

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]  
LISN: SLS-02-E

# DATA OF CONDUCTED EMISSION TEST

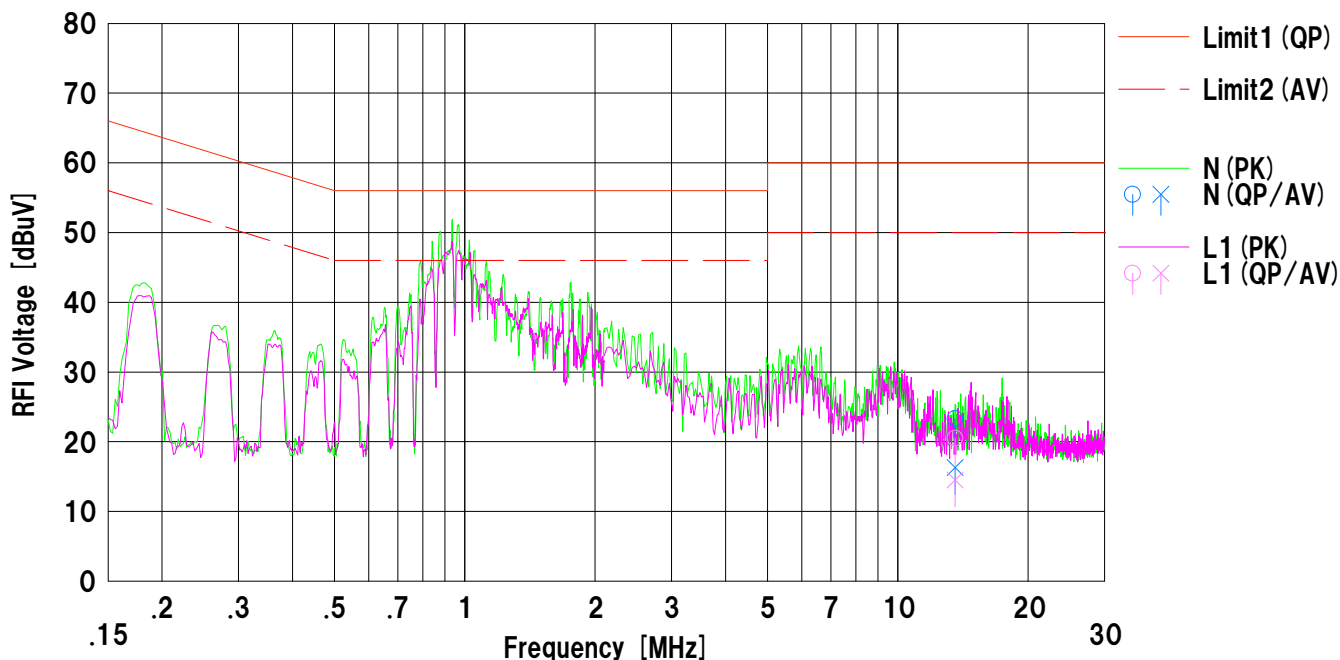
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500113 8  
Remarks : (Nichicon's AC adaptor No.1), X'tal Type A, Tag A, Transmitting (antenna terminated)

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 13.56000       | 8.8            | 1.8            | 14.5          | 23.3           | 16.3           | 60.0           | 50.0           | 36.7         | 33.7         | N     |         |
| 2   | 13.56000       | 6.0            | 0.0            | 14.5          | 20.5           | 14.5           | 60.0           | 50.0           | 39.5         | 35.5         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

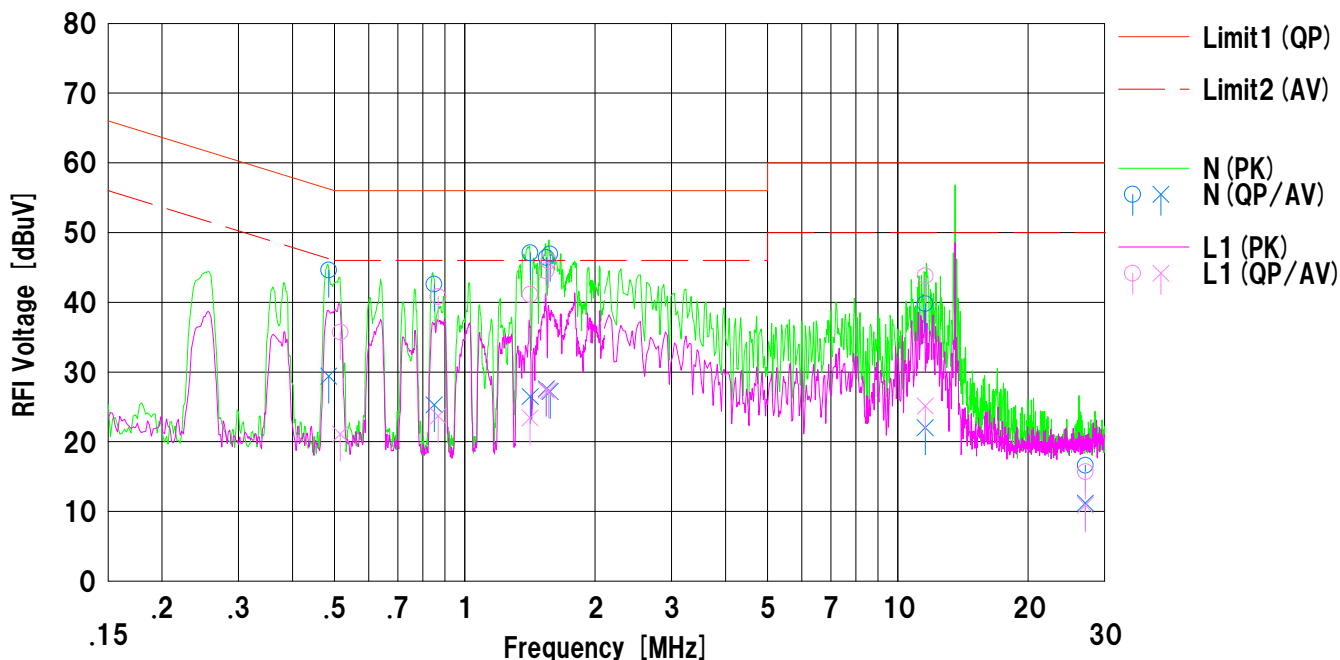
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500113 5  
Remarks : (Tabuchi's AC adaptor No.1) , X'tal Type A , Tag A , Transmitting

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.48491        | 31.8           | 16.6           | 12.8          | 44.6           | 29.4           | 56.2           | 46.2           | 11.6         | 16.8         | N     |         |
| 2   | 0.84980        | 29.8           | 12.5           | 12.8          | 42.6           | 25.3           | 56.0           | 46.0           | 13.4         | 20.7         | N     |         |
| 3   | 1.41642        | 34.2           | 13.6           | 12.9          | 47.1           | 26.5           | 56.0           | 46.0           | 8.9          | 19.5         | N     |         |
| 4   | 1.54361        | 33.4           | 14.6           | 13.0          | 46.4           | 27.6           | 56.0           | 46.0           | 9.6          | 18.4         | N     |         |
| 5   | 1.57363        | 33.9           | 14.2           | 13.0          | 46.9           | 27.2           | 56.0           | 46.0           | 9.1          | 18.8         | N     |         |
| 6   | 11.56499       | 25.6           | 7.8            | 14.2          | 39.8           | 22.0           | 60.0           | 50.0           | 20.2         | 28.0         | N     |         |
| 7   | 27.12000       | 1.1            | -4.3           | 15.5          | 16.6           | 11.2           | 60.0           | 50.0           | 43.4         | 38.8         | N     |         |
| 8   | 0.51606        | 22.9           | 8.3            | 12.8          | 35.7           | 21.1           | 56.0           | 46.0           | 20.3         | 24.9         | L1    |         |
| 9   | 0.86789        | 28.0           | 10.9           | 12.8          | 40.8           | 23.7           | 56.0           | 46.0           | 15.2         | 22.3         | L1    |         |
| 10  | 1.41420        | 28.2           | 10.5           | 12.9          | 41.1           | 23.4           | 56.0           | 46.0           | 14.9         | 22.6         | L1    |         |
| 11  | 1.54123        | 31.5           | 14.4           | 13.0          | 44.5           | 27.4           | 56.0           | 46.0           | 11.5         | 18.6         | L1    |         |
| 12  | 1.56246        | 32.9           | 14.3           | 13.0          | 45.9           | 27.3           | 56.0           | 46.0           | 10.1         | 18.7         | L1    |         |
| 13  | 11.57427       | 29.6           | 10.9           | 14.2          | 43.8           | 25.1           | 60.0           | 50.0           | 16.2         | 24.9         | L1    |         |
| 14  | 27.12000       | 0.2            | -4.6           | 15.5          | 15.7           | 10.9           | 60.0           | 50.0           | 44.3         | 39.1         | L1    |         |

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]  
LISN: SLS-02-E

# DATA OF CONDUCTED EMISSION TEST

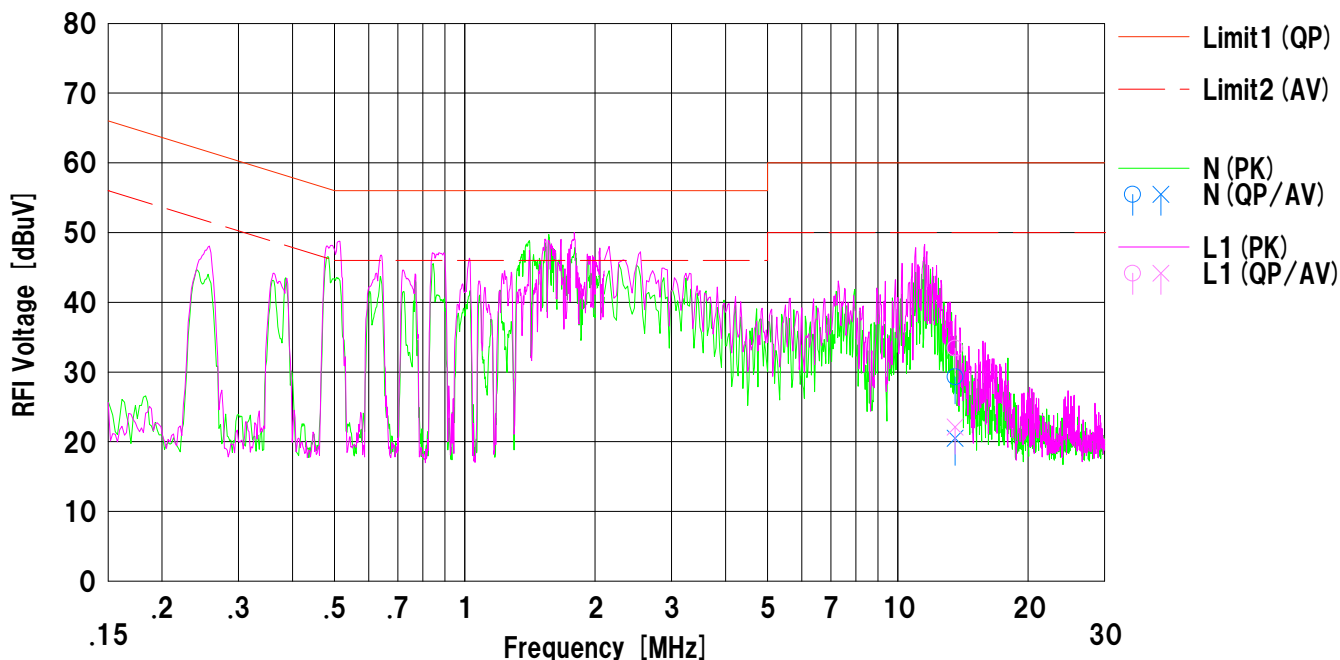
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500113 8  
Remarks : (Tabuchi's AC adaptor No.1) , X'tal Type A , Tag A , Transmitting (antenna terminated)

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 13.56000       | 14.8           | 6.0            | 14.5          | 29.3           | 20.5           | 60.0           | 50.0           | 30.7         | 29.5         | N     |         |
| 2   | 13.56000       | 18.9           | 7.6            | 14.5          | 33.4           | 22.1           | 60.0           | 50.0           | 26.6         | 27.9         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

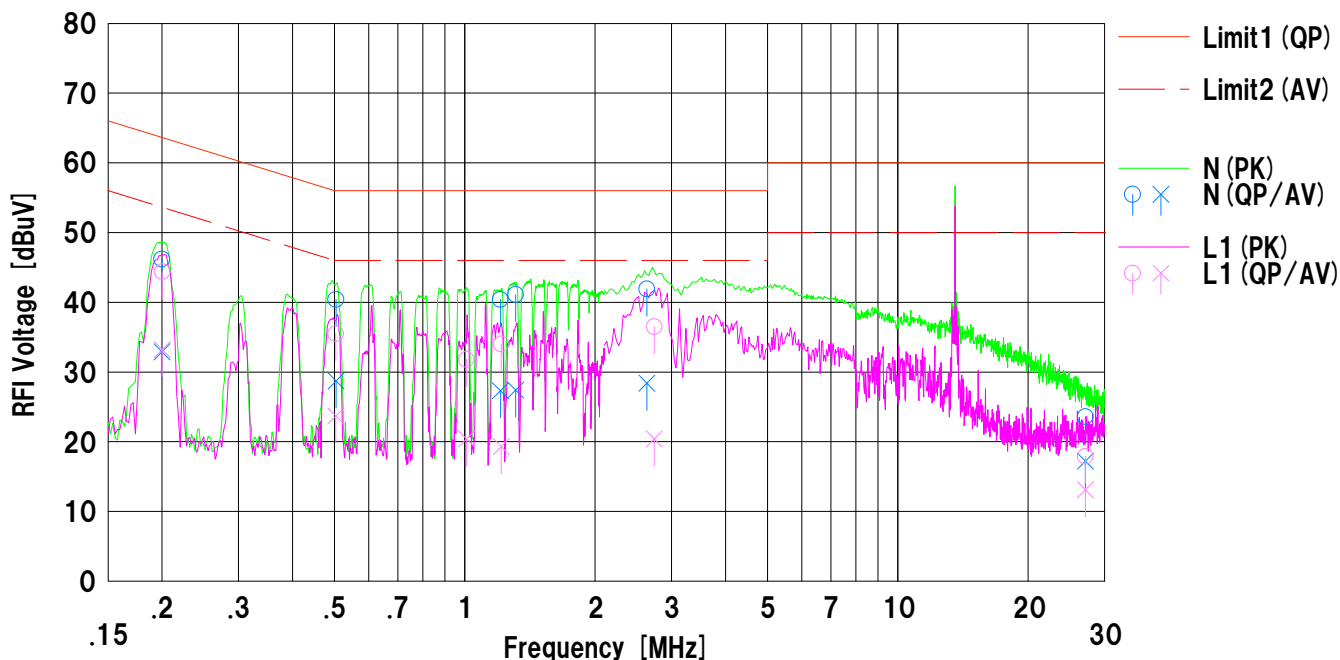
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500351 1  
Remarks : (Nichicon's AC adaptor No.1), X'tal Type B, Tag A, Transmitting

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.19993        | 33.4           | 20.1           | 12.8          | 46.2           | 32.9           | 63.6           | 53.6           | 17.4         | 20.7         | N     |         |
| 2   | 0.50422        | 27.6           | 15.9           | 12.8          | 40.4           | 28.7           | 56.0           | 46.0           | 15.6         | 17.3         | N     |         |
| 3   | 1.20915        | 27.5           | 14.4           | 12.9          | 40.4           | 27.3           | 56.0           | 46.0           | 15.6         | 18.7         | N     |         |
| 4   | 1.31140        | 28.2           | 14.5           | 12.9          | 41.1           | 27.4           | 56.0           | 46.0           | 14.9         | 18.6         | N     |         |
| 5   | 2.63194        | 28.9           | 15.4           | 13.0          | 41.9           | 28.4           | 56.0           | 46.0           | 14.1         | 17.6         | N     |         |
| 6   | 27.12000       | 8.1            | 1.7            | 15.5          | 23.6           | 17.2           | 60.0           | 50.0           | 36.4         | 32.8         | N     |         |
| 7   | 0.20018        | 31.6           | 20.4           | 12.8          | 44.4           | 33.2           | 63.6           | 53.6           | 19.2         | 20.4         | L1    |         |
| 8   | 0.50396        | 22.7           | 10.9           | 12.8          | 35.5           | 23.7           | 56.0           | 46.0           | 20.5         | 22.3         | L1    |         |
| 9   | 1.00925        | 18.9           | 7.5            | 12.9          | 31.8           | 20.4           | 56.0           | 46.0           | 24.2         | 25.6         | L1    |         |
| 10  | 1.21450        | 21.1           | 6.4            | 12.9          | 34.0           | 19.3           | 56.0           | 46.0           | 22.0         | 26.7         | L1    |         |
| 11  | 2.73761        | 23.5           | 7.4            | 13.0          | 36.5           | 20.4           | 56.0           | 46.0           | 19.5         | 25.6         | L1    |         |
| 12  | 27.12000       | 2.4            | -2.4           | 15.5          | 17.9           | 13.1           | 60.0           | 50.0           | 42.1         | 36.9         | L1    |         |

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]  
LISN: SLS-02-E

# DATA OF CONDUCTED EMISSION TEST

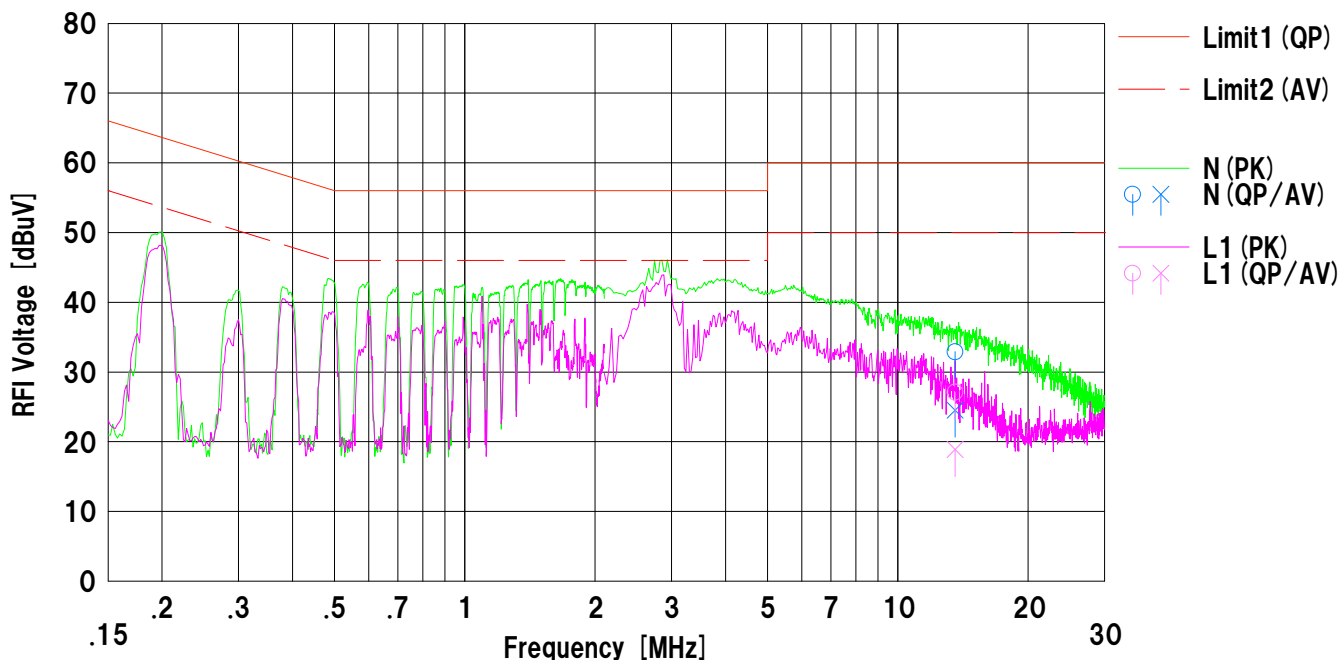
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500351 3  
Remarks : (Mitsumi's AC adaptor No.1) , X'tal Type B, Tag A , Transmitting (antenna terminated)

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 13.56000       | 18.4           | 10.0           | 14.5          | 32.9           | 24.5           | 60.0           | 50.0           | 27.1         | 25.5         | N     |         |
| 2   | 13.56000       | 12.6           | 4.4            | 14.5          | 27.1           | 18.9           | 60.0           | 50.0           | 32.9         | 31.1         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

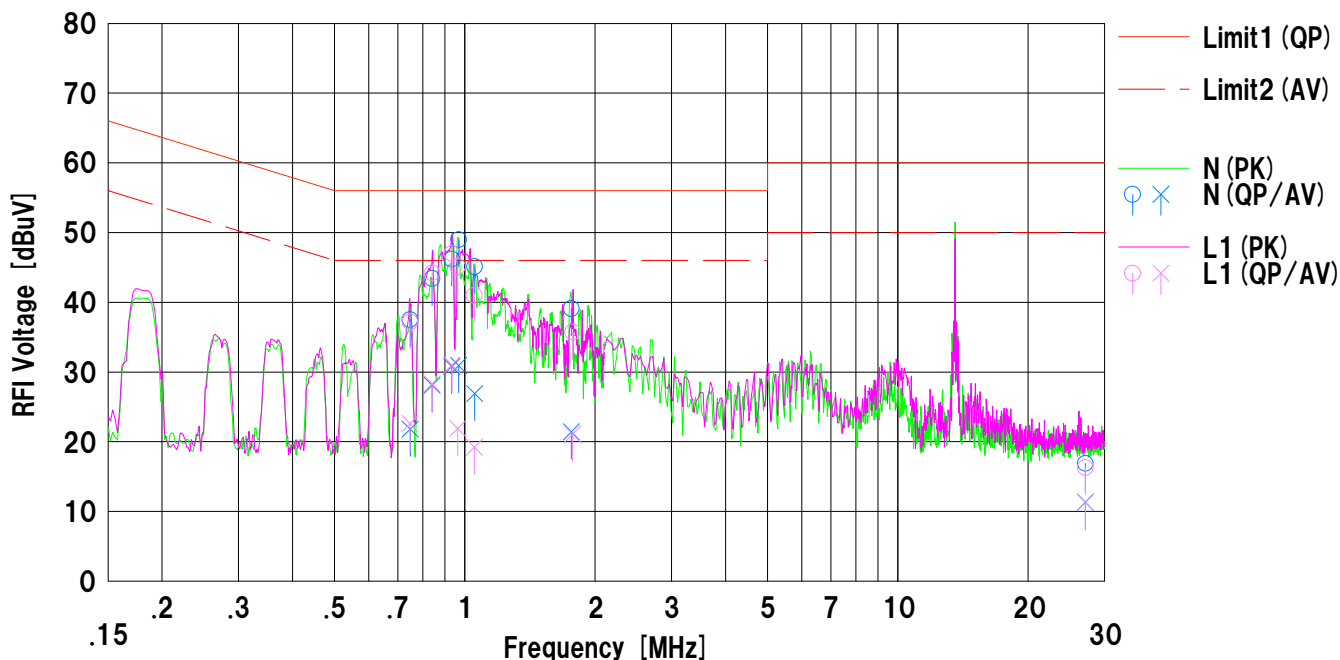
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500351 1  
Remarks : (Nichicon's AC adaptor No.1), X'tal Type B, Tag A, Transmitting

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.74810        | 24.7           | 9.0            | 12.8          | 37.5           | 21.8           | 56.0           | 46.0           | 18.5         | 24.2         | N     |         |
| 2   | 0.84036        | 30.6           | 15.3           | 12.8          | 43.4           | 28.1           | 56.0           | 46.0           | 12.6         | 17.9         | N     |         |
| 3   | 0.93333        | 33.4           | 18.0           | 12.8          | 46.2           | 30.8           | 56.0           | 46.0           | 9.8          | 15.2         | N     |         |
| 4   | 0.96831        | 36.1           | 18.0           | 12.9          | 49.0           | 30.9           | 56.0           | 46.0           | 7.0          | 15.1         | N     |         |
| 5   | 1.05438        | 32.2           | 14.0           | 12.9          | 45.1           | 26.9           | 56.0           | 46.0           | 10.9         | 19.1         | N     |         |
| 6   | 1.76354        | 26.1           | 8.4            | 13.0          | 39.1           | 21.4           | 56.0           | 46.0           | 16.9         | 24.6         | N     |         |
| 7   | 27.12000       | 1.4            | -4.2           | 15.5          | 16.9           | 11.3           | 60.0           | 50.0           | 43.1         | 38.7         | N     |         |
| 8   | 0.74738        | 24.4           | 9.8            | 12.8          | 37.2           | 22.6           | 56.0           | 46.0           | 18.8         | 23.4         | L1    |         |
| 9   | 0.84099        | 31.4           | 15.5           | 12.8          | 44.2           | 28.3           | 56.0           | 46.0           | 11.8         | 17.7         | L1    |         |
| 10  | 0.93407        | 34.2           | 18.2           | 12.8          | 47.0           | 31.0           | 56.0           | 46.0           | 9.0          | 15.0         | L1    |         |
| 11  | 0.96290        | 32.2           | 9.0            | 12.9          | 45.1           | 21.9           | 56.0           | 46.0           | 10.9         | 24.1         | L1    |         |
| 12  | 1.05189        | 28.1           | 6.3            | 12.9          | 41.0           | 19.2           | 56.0           | 46.0           | 15.0         | 26.8         | L1    |         |
| 13  | 1.77439        | 22.7           | 8.1            | 13.0          | 35.7           | 21.1           | 56.0           | 46.0           | 20.3         | 24.9         | L1    |         |
| 14  | 27.12000       | 0.8            | -4.2           | 15.5          | 16.3           | 11.3           | 60.0           | 50.0           | 43.7         | 38.7         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

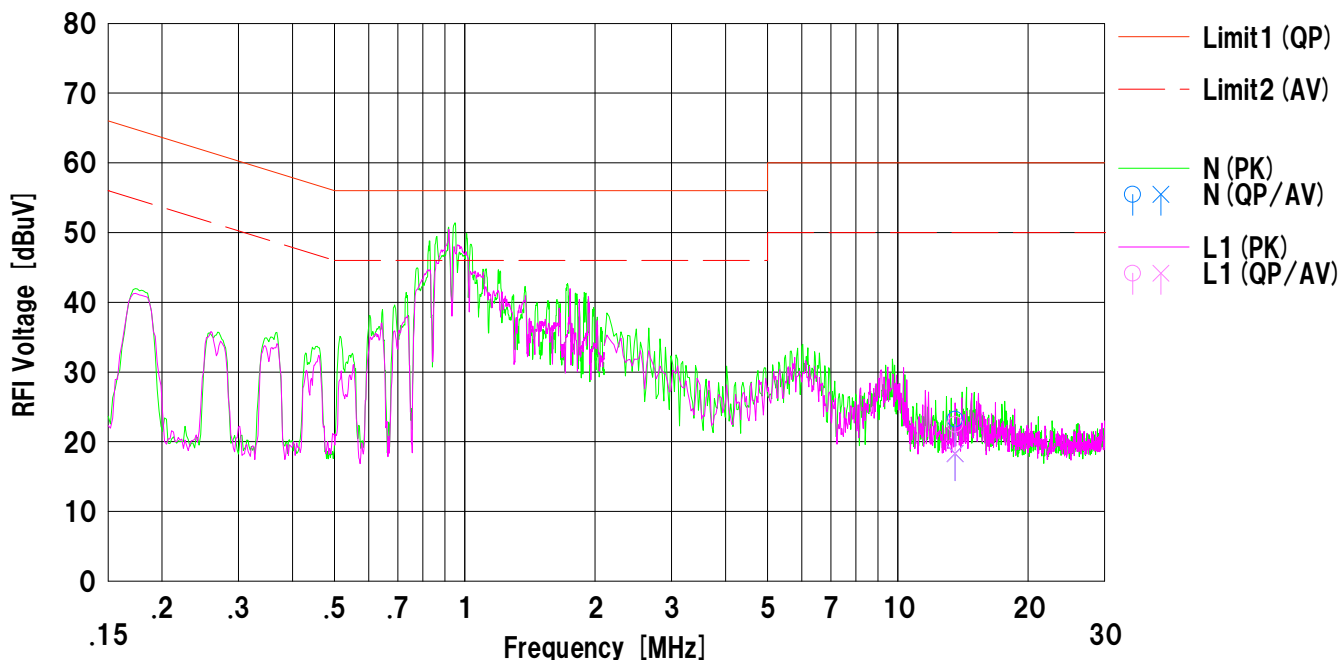
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500351 3  
Remarks : (Nichicon's AC adaptor No.1) , X'tal Type B , Tag A , Transmitting (antenna terminated)

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 13.56000       | 8.7            | 3.8            | 14.5          | 23.2           | 18.3           | 60.0           | 50.0           | 36.8         | 31.7         | N     |         |
| 2   | 13.56000       | 8.0            | 3.8            | 14.5          | 22.5           | 18.3           | 60.0           | 50.0           | 37.5         | 31.7         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

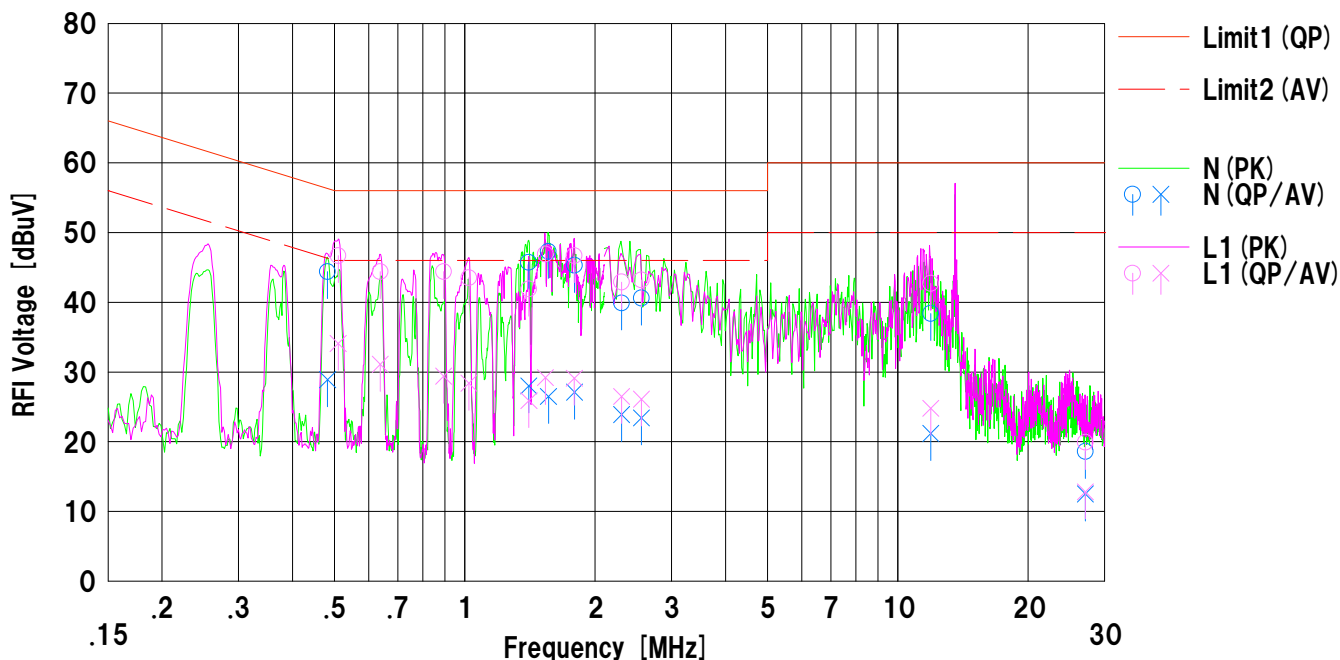
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500351 1  
Remarks : (Tabuchi's AC adaptor No.1), X'tal Type B, Tag A, Transmitting

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 0.48206        | 31.6           | 16.1           | 12.8          | 44.4           | 28.9           | 56.3           | 46.3           | 11.9         | 17.4         | N     |         |
| 2   | 1.40495        | 32.8           | 15.1           | 12.9          | 45.7           | 28.0           | 56.0           | 46.0           | 10.3         | 18.0         | N     |         |
| 3   | 1.56106        | 34.3           | 13.5           | 13.0          | 47.3           | 26.5           | 56.0           | 46.0           | 8.7          | 19.5         | N     |         |
| 4   | 1.79171        | 32.3           | 14.1           | 13.0          | 45.3           | 27.1           | 56.0           | 46.0           | 10.7         | 18.9         | N     |         |
| 5   | 2.30319        | 26.9           | 10.9           | 13.0          | 39.9           | 23.9           | 56.0           | 46.0           | 16.1         | 22.1         | N     |         |
| 6   | 2.55766        | 27.6           | 10.4           | 13.0          | 40.6           | 23.4           | 56.0           | 46.0           | 15.4         | 22.6         | N     |         |
| 7   | 11.91013       | 24.2           | 7.0            | 14.2          | 38.4           | 21.2           | 60.0           | 50.0           | 21.6         | 28.8         | N     |         |
| 8   | 27.12000       | 3.1            | -3.0           | 15.5          | 18.6           | 12.5           | 60.0           | 50.0           | 41.4         | 37.5         | N     |         |
| 9   | 0.51031        | 33.9           | 21.3           | 12.8          | 46.7           | 34.1           | 56.0           | 46.0           | 9.3          | 11.9         | L1    |         |
| 10  | 0.63790        | 31.6           | 18.3           | 12.8          | 44.4           | 31.1           | 56.0           | 46.0           | 11.6         | 14.9         | L1    |         |
| 11  | 0.89432        | 31.6           | 16.6           | 12.8          | 44.4           | 29.4           | 56.0           | 46.0           | 11.6         | 16.6         | L1    |         |
| 12  | 1.02167        | 30.6           | 15.5           | 12.9          | 43.5           | 28.4           | 56.0           | 46.0           | 12.5         | 17.6         | L1    |         |
| 13  | 1.40590        | 29.0           | 13.0           | 12.9          | 41.9           | 25.9           | 56.0           | 46.0           | 14.1         | 20.1         | L1    |         |
| 14  | 1.53528        | 33.9           | 16.2           | 13.0          | 46.9           | 29.2           | 56.0           | 46.0           | 9.1          | 16.8         | L1    |         |
| 15  | 1.79062        | 33.7           | 16.1           | 13.0          | 46.7           | 29.1           | 56.0           | 46.0           | 9.3          | 16.9         | L1    |         |
| 16  | 2.30346        | 29.9           | 13.5           | 13.0          | 42.9           | 26.5           | 56.0           | 46.0           | 13.1         | 19.5         | L1    |         |
| 17  | 2.55714        | 30.2           | 13.1           | 13.0          | 43.2           | 26.1           | 56.0           | 46.0           | 12.8         | 19.9         | L1    |         |
| 18  | 11.90921       | 28.5           | 10.6           | 14.2          | 42.7           | 24.8           | 60.0           | 50.0           | 17.3         | 25.2         | L1    |         |
| 19  | 27.12000       | 4.4            | -2.7           | 15.5          | 19.9           | 12.8           | 60.0           | 50.0           | 40.1         | 37.2         | L1    |         |

# DATA OF CONDUCTED EMISSION TEST

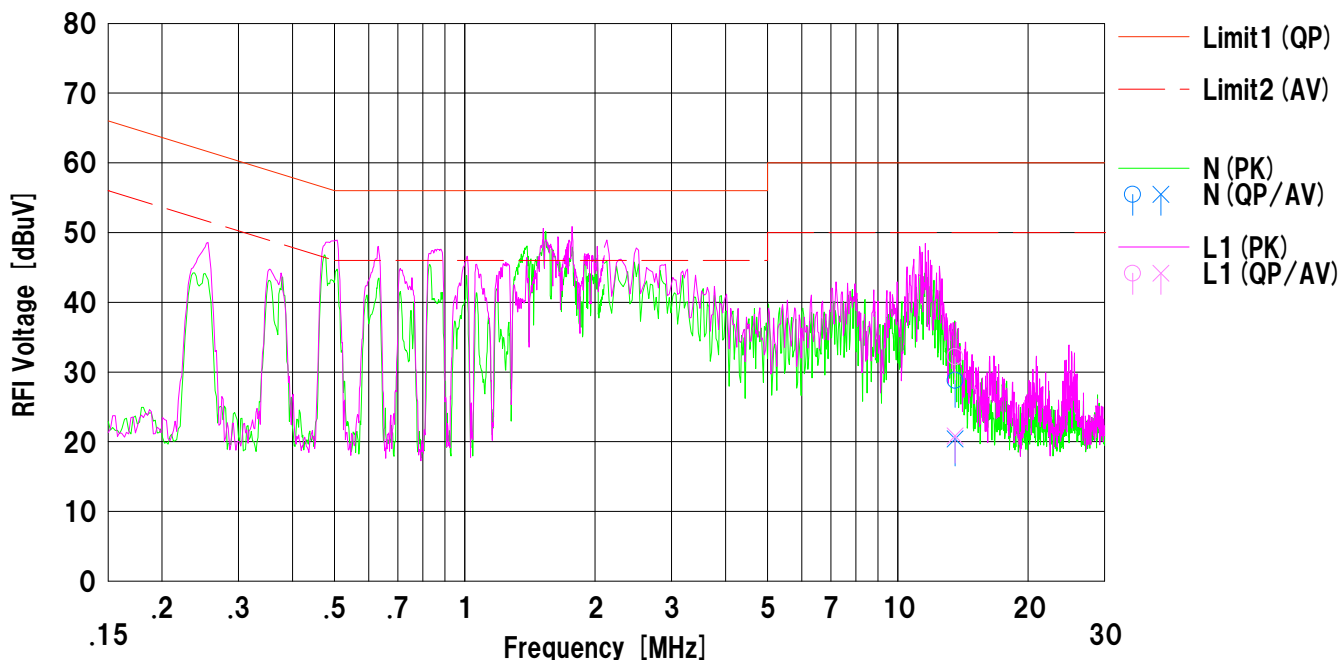
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room  
Date : 2014/06/19

Company : NINTENDO CO., LTD  
Kind of EUT : Refer to section 2.2  
Model No. : RED-001  
Serial No. : QW09500351 3  
Remarks : (Tabuchi's AC adaptor No.1) , X'tal Type B , Tag A , Transmitting (antenna terminated)

Mode : NFC type A transmitting  
Order No. : 10334251S  
Power : AC 120V / 60Hz  
Temp./Humi. : 23deg.C / 57%RH

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Shinichi Takano



| No. | Freq.<br>[MHz] | Reading        |                | C.Fac<br>[dB] | Results        |                | Limit          |                | Margin       |              | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
|     |                | <QP><br>[dBuV] | <AV><br>[dBuV] |               | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dBuV] | <AV><br>[dBuV] | <QP><br>[dB] | <AV><br>[dB] |       |         |
| 1   | 13.56000       | 14.3           | 5.9            | 14.5          | 28.8           | 20.4           | 60.0           | 50.0           | 31.2         | 29.6         | N     |         |
| 2   | 13.56000       | 17.7           | 6.3            | 14.5          | 32.2           | 20.8           | 60.0           | 50.0           | 27.8         | 29.2         | L1    |         |

## Data of Electric field strength of Fundamental emission and Spurious emission within the band: FCC15.225(a)(b)(c)

UL Japan, Inc.  
Shonan EMC Lab., No.1 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500113 5  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz

Regulation: FCC Part15 Subpart C 15.225  
Test Distance: 3m  
Date: June 25, 2014  
Temperature: 24 deg.C  
Humidity: 61 %RH  
ENGINEER: Kenichi Adachi

Remarks: : NFC type B, with tag (Axis:Hor\_X / Ver\_Z) , Vertical polarization (antenna angle) of the worst case: 0deg  
X'tal A, Mitsumi's AC adaptor

### Fundamental emission

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.560        | 51.7                     | 63.3          | 19.0                        | 6.5          | 31.8                | -40.0                      | 5.4             | 17.0            | 83.9                       | 78.5        | <b>66.9</b> |

Calculation: Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Distance factor:  $40 \times \log(3\text{m}/30\text{m}) = -40 \text{ dB}$

Limits (30m)

• 13.553MHz to 13.567MHz : 83.9dBuV/m (FCC 15.225(a))

### Spurious emission within the band

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.110        | 30.3                     | 30.3          | 19.0                        | 6.4          | 31.8                | -40.0                      | -16.1           | -16.1           | 29.5                       | 45.6        | 45.6        |
| 2   | 13.410        | 30.3                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -16.0           | -15.8           | 40.5                       | 56.5        | 56.3        |
| 3   | 13.553        | 38.1                     | 49.2          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.2            | 2.9             | 50.4                       | 58.6        | 47.5        |
| 4   | 13.567        | 38.0                     | 49.0          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.3            | 2.7             | 50.4                       | 58.7        | 47.7        |
| 5   | 13.710        | 30.3                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -16.0           | -15.9           | 40.5                       | 56.5        | 56.4        |
| 6   | 14.010        | 30.3                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -16.0           | -15.8           | 29.5                       | 45.5        | <b>45.3</b> |

Calculation: Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Outside filed strength frequencies

- Fc±7kHz: 13.553MHz to 13.567MHz
  - Fc±150kHz: 13.410MHz to 13.710MHz
  - Fc±450kHz: 13.110MHz to 14.010MHz
- Fc = 13.56MHz

Limits (30m)

- 13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : 50.4dBuV/m (FCC 15.225(b))
- 13.110MHz to 13.410MHz and 13.710MHz to 14.010MHz : 40.5dBuV/m (FCC 15.225(c))
- Below 13.110MHz and Above 14.010MHz : 29.5dBuV/m (FCC 15.225(d) and FCC 15.209)

**UL Japan, Inc.**

**Shonan EMC Lab.**

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Facsimile : +81 463 50 6401

## Data of Electric field strength of Fundamental emission and Spurious emission within the band: FCC15.225(a)(b)(c)

UL Japan, Inc.  
Shonan EMC Lab., No.1 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500113 5  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz

Regulation: FCC Part15 Subpart C 15.225  
Test Distance: 3m  
Date: June 25, 2014  
Temperature: 24 deg.C  
Humidity: 61 %RH  
ENGINEER: Kenichi Adachi

Remarks: : NFC type B, with tag (Axis:Hor\_X / Ver\_Z) , Vertical polarization (antenna angle) of the worst case: 0deg  
X'tal A, Tabuchi's AC adaptor

### Fundamental emission

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.560        | 52.7                     | 63.2          | 19.0                        | 6.5          | 31.8                | -40.0                      | 6.4             | 16.9            | 83.9                       | 77.5        | 67.0        |

Calculation: Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Distance factor:  $40 \times \log(3\text{m}/30\text{m}) = -40 \text{ dB}$

Limits (30m)

• 13.553MHz to 13.567MHz : 83.9dBuV/m (FCC 15.225(a))

### Spurious emission within the band

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.110        | 30.4                     | 30.4          | 19.0                        | 6.4          | 31.8                | -40.0                      | -16.0           | -16.0           | 29.5                       | 45.5        | 45.5        |
| 2   | 13.410        | 30.5                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.8           | -15.8           | 40.5                       | 56.3        | 56.3        |
| 3   | 13.553        | 39.2                     | 49.1          | 19.0                        | 6.5          | 31.8                | -40.0                      | -7.1            | 2.8             | 50.4                       | 57.5        | 47.6        |
| 4   | 13.567        | 38.9                     | 49.0          | 19.0                        | 6.5          | 31.8                | -40.0                      | -7.4            | 2.7             | 50.4                       | 57.8        | 47.7        |
| 5   | 13.710        | 30.4                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.8           | 40.5                       | 56.4        | 56.3        |
| 6   | 14.010        | 30.5                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.8           | -15.8           | 40.5                       | 56.3        | 56.3        |

Calculation: Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Outside filed strength frequencies

- Fc±7kHz: 13.553MHz to 13.567MHz
  - Fc±150kHz: 13.410MHz to 13.710MHz
  - Fc±450kHz: 13.110MHz to 14.010MHz
- Fc = 13.56MHz

Limits (30m)

- 13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : 50.4dBuV/m (FCC 15.225(b))
- 13.110MHz to 13.410MHz and 13.710MHz to 14.010MHz : 40.5dBuV/m (FCC 15.225(c))
- Below 13.110MHz and Above 14.010MHz : 29.5dBuV/m (FCC 15.225(d) and FCC 15.209)

**UL Japan, Inc.**

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1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa, Japan 259-1220

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Facsimile : +81 463 50 6401

## Data of Electric field strength of Fundamental emission and Spurious emission within the band: FCC15.225(a)(b)(c)

UL Japan, Inc.  
Shonan EMC Lab., No.1 Semi-Anechoic Chamber

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Company: NINTENDO CO., LTD.     | Regulation: FCC Part15 Subpart C 15.225 |
| Equipment: Refer to section 2.2 | Test Distance: 3m                       |
| Model: RED-001                  | Date: June 25, 2014                     |
| Sample No.: QW09500113 5        | Temperature: 24 deg.C                   |
| Power: AC 120V / 60Hz           | Humidity: 61 %RH                        |
| Mode: Transmitting 13.56MHz     | ENGINEER: Kenichi Adachi                |

Remarks: : NFC type B, with tag (Axis:Hor\_X / Ver\_Z) , Vertical polarization (antenna angle) of the worst case: 0deg  
X'tal A, Nichicon's AC adaptor

### Fundamental emission

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.560        | 52.2                     | 63.1          | 19.0                        | 6.5          | 31.8                | -40.0                      | 5.9             | 16.8            | 83.9                       | 78.0        | 67.1        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Distance factor: 40 x log (3m/30m) = -40 dB

Limits (30m)

•13.553MHz to 13.567MHz : 83.9dBuV/m (FCC 15.225(a))

### Spurious emission within the band

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.110        | 30.4                     | 30.4          | 19.0                        | 6.4          | 31.8                | -40.0                      | -16.0           | -16.0           | 29.5                       | 45.5        | 45.5        |
| 2   | 13.410        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |
| 3   | 13.553        | 38.7                     | 48.9          | 19.0                        | 6.5          | 31.8                | -40.0                      | -7.6            | 2.6             | 50.4                       | 58.0        | 47.8        |
| 4   | 13.567        | 38.5                     | 48.7          | 19.0                        | 6.5          | 31.8                | -40.0                      | -7.8            | 2.4             | 50.4                       | 58.2        | 48.0        |
| 5   | 13.710        | 30.5                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.8           | -15.8           | 40.5                       | 56.3        | 56.3        |
| 6   | 14.010        | 30.5                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.8           | -15.8           | 40.5                       | 56.3        | 56.3        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Outside filed strength frequencies

- Fc±7kHz:13.553MHz to 13.567MHz
  - Fc±150kHz:13.410MHz to 13.710MHz
  - Fc±450kHz:13.110MHz to 14.010MHz
- Fc = 13.56MHz

Limits (30m)

- 13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : 50.4dBuV/m (FCC 15.225(b))
- 13.110MHz to 13.410MHz and 13.710MHz to 14.010MHz : 40.5dBuV/m (FCC 15.225(c))
- Below 13.110MHz and Above 14.010MHz : 29.5dBuV/m (FCC 15.225(d)and FCC 15.209)

**Data of Electric field strength of Fundamental emission  
and Spurious emission within the band: FCC15.225(a)(b)(c)**

UL Japan, Inc.  
Shonan EMC Lab., No.1 Semi-Anechoic Chamber

|             |                       |                |                             |
|-------------|-----------------------|----------------|-----------------------------|
| Company:    | NINTENDO CO., LTD.    | Regulation:    | FCC Part15 Subpart C 15.225 |
| Equipment:  | Refer to section 2.2  | Test Distance: | 3m                          |
| Model:      | RED-001               | Date:          | June 25, 2014               |
| Sample No.: | QW09500351 1          | Temperature:   | 24 deg.C                    |
| Power:      | AC 120V / 60Hz        | Humidity:      | 61 %RH                      |
| Mode:       | Transmitting 13.56MHz | ENGINEER:      | Kenichi Adachi              |

Remarks: : NFC type B, with tag (Axis:Hor\_X / Ver\_Z) , Vertical polarization (antenna angle) of the worst case: 0deg  
X'tal B, Mitsumi's AC adaptor

**Fundamental emission**

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.560        | 51.3                     | 64.6          | 19.0                        | 6.5          | 31.8                | -40.0                      | 5.0             | 18.3            | 83.9                       | 78.9        | 65.6        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]  
Distance factor: 40 x log (3m/30m) = -40 dB  
Limits (30m)  
•13.553MHz to 13.567MHz : 83.9dBuV/m (FCC 15.225(a))

**Spurious emission within the band**

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.110        | 30.4                     | 30.4          | 19.0                        | 6.4          | 31.8                | -40.0                      | -16.0           | -16.0           | 40.5                       | 56.5        | 56.5        |
| 2   | 13.410        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |
| 3   | 13.553        | 38.3                     | 50.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.0            | 4.1             | 50.4                       | 58.4        | 46.3        |
| 4   | 13.567        | 38.0                     | 49.6          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.3            | 3.3             | 50.4                       | 58.7        | 47.1        |
| 5   | 13.710        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |
| 6   | 14.010        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Outside filed strength frequencies  
•Fc±7kHz:13.553MHz to 13.567MHz  
•Fc±150kHz:13.410MHz to 13.710MHz  
•Fc±450kHz:13.110MHz to 14.010MHz  
Fc = 13.56MHz

Limits (30m)  
•13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : 50.4dBuV/m (FCC 15.225(b))  
•13.110MHz to 13.410MHz and 13.710MHz to 14.010MHz : 40.5dBuV/m (FCC 15.225(c))  
•Below 13.110MHz and Above 14.010MHz : 29.5dBuV/m (FCC 15.225(d)and FCC 15.209)

**Data of Electric field strength of Fundamental emission**  
**and Spurious emission within the band: FCC15.225(a)(b)(c)**

UL Japan, Inc.  
Shonan EMC Lab., No.1 Semi-Anechoic Chamber

|             |                       |                |                             |
|-------------|-----------------------|----------------|-----------------------------|
| Company:    | NINTENDO CO., LTD.    | Regulation:    | FCC Part15 Subpart C 15.225 |
| Equipment:  | Refer to section 2.2  | Test Distance: | 3m                          |
| Model:      | RED-001               | Date:          | June 25, 2014               |
| Sample No.: | QW09500351 1          | Temperature:   | 24 deg.C                    |
| Power:      | AC 120V / 60Hz        | Humidity:      | 61 %RH                      |
| Mode:       | Transmitting 13.56MHz | ENGINEER:      | Kenichi Adachi              |

Remarks: : NFC type B, with tag (Axis:Hor\_X / Ver\_Z) , Vertical polarization (antenna angle) of the worst case: 0deg  
X'tal B, Tabuchi's AC adaptor

**Fundamental emission**

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.560        | 50.9                     | 65.3          | 19.0                        | 6.5          | 31.8                | -40.0                      | 4.6             | 19.0            | 83.9                       | 79.3        | 64.9        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]  
Distance factor: 40 x log (3m/30m) = -40 dB  
Limits (30m)  
•13.553MHz to 13.567MHz : 83.9dBuV/m (FCC 15.225(a))

**Spurious emission within the band**

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.110        | 30.4                     | 30.4          | 19.0                        | 6.4          | 31.8                | -40.0                      | -16.0           | -16.0           | 40.5                       | 56.5        | 56.5        |
| 2   | 13.410        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |
| 3   | 13.553        | 37.9                     | 51.7          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.4            | 5.4             | 50.4                       | 58.8        | 45.0        |
| 4   | 13.567        | 37.7                     | 50.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.6            | 4.1             | 50.4                       | 59.0        | 46.3        |
| 5   | 13.710        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |
| 6   | 14.010        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Outside filed strength frequencies  
•Fc±7kHz:13.553MHz to 13.567MHz  
•Fc±150kHz:13.410MHz to 13.710MHz  
•Fc±450kHz:13.110MHz to 14.010MHz  
Fc = 13.56MHz

Limits (30m)  
•13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : 50.4dBuV/m (FCC 15.225(b))  
•13.110MHz to 13.410MHz and 13.710MHz to 14.010MHz : 40.5dBuV/m (FCC 15.225(c))  
•Below 13.110MHz and Above 14.010MHz : 29.5dBuV/m (FCC 15.225(d)and FCC 15.209)

## Data of Electric field strength of Fundamental emission and Spurious emission within the band: FCC15.225(a)(b)(c)

UL Japan, Inc.  
Shonan EMC Lab., No.1 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500351 1  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz

Regulation: FCC Part15 Subpart C 15.225  
Test Distance: 3m  
Date: June 25, 2014  
Temperature: 24 deg.C  
Humidity: 61 %RH  
ENGINEER: Kenichi Adachi

Remarks: : NFC type B, with tag (Axis:Hor\_X / Ver\_Z) , Vertical polarization (antenna angle) of the worst case: 0deg  
X'tal B, Nichicon's AC adaptor

### Fundamental emission

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.560        | 51.0                     | 64.7          | 19.0                        | 6.5          | 31.8                | -40.0                      | 4.7             | 18.4            | 83.9                       | 79.2        | 65.5        |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable+ATT)[dB] - Gain(AMP)[dB] + Distance factor[dB]

Distance factor:  $40 \times \log(3\text{m}/30\text{m}) = -40 \text{ dB}$

Limits (30m)

• 13.553MHz to 13.567MHz : 83.9dBuV/m (FCC 15.225(a))

### Spurious emission within the band

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.110        | 30.4                     | 30.4          | 19.0                        | 6.4          | 31.8                | -40.0                      | -16.0           | -16.0           | 40.5                       | 56.5        | 56.5        |
| 2   | 13.410        | 30.4                     | 30.4          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.9           | 40.5                       | 56.4        | 56.4        |
| 3   | 13.553        | 38.1                     | 50.9          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.2            | 4.6             | 50.4                       | 58.6        | 45.8        |
| 4   | 13.567        | 37.3                     | 49.8          | 19.0                        | 6.5          | 31.8                | -40.0                      | -9.0            | 3.5             | 50.4                       | 59.4        | 46.9        |
| 5   | 13.710        | 30.4                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.9           | -15.8           | 40.5                       | 56.4        | 56.3        |
| 6   | 14.010        | 30.5                     | 30.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -15.8           | -15.8           | 40.5                       | 56.3        | 56.3        |

Calculation: Result[dBuV/m] = Reading[dBuV] + Ant.Fac[dB/m] + Loss(Cable+ATT)[dB] - Gain(AMP)[dB] + Distance factor[dB]

Outside filed strength frequencies

- Fc±7kHz: 13.553MHz to 13.567MHz
  - Fc±150kHz: 13.410MHz to 13.710MHz
  - Fc±450kHz: 13.110MHz to 14.010MHz
- Fc = 13.56MHz

Limits (30m)

- 13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : 50.4dBuV/m (FCC 15.225(b))
- 13.110MHz to 13.410MHz and 13.710MHz to 14.010MHz : 40.5dBuV/m (FCC 15.225(c))
- Below 13.110MHz and Above 14.010MHz : 29.5dBuV/m (FCC 15.225(d) and FCC 15.209)

**UL Japan, Inc.**

**Shonan EMC Lab.**

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**Data of Electric field strength of Fundamental emission  
and Spurious emission within the band: FCC15.225(a)(b)(c)**

(Reference data)

UL Japan, Inc.  
Shonan EMC Lab., No.1 Semi-Anechoic Chamber

|             |                       |                |                             |
|-------------|-----------------------|----------------|-----------------------------|
| Company:    | NINTENDO CO., LTD.    | Regulation:    | FCC Part15 Subpart C 15.225 |
| Equipment:  | Refer to section 2.2  | Test Distance: | 3m                          |
| Model:      | RED-001               | Date:          | June 25, 2014               |
| Sample No.: | QW09500113 5          | Temperature:   | 24 deg.C                    |
| Power:      | AC 120V / 60Hz        | Humidity:      | 61 %RH                      |
| Mode:       | Transmitting 13.56MHz | ENGINEER:      | Kenichi Adachi              |

Remarks: : NFC type A, with tag (Axis:Hor\_X / Ver\_Z) , Vertical polarization (antenna angle) of the worst case: 0deg  
X'tal A, Mitsumi's AC adaptor

**Fundamental emission**

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.560        | 51.8                     | 63.2          | 19.0                        | 6.5          | 31.8                | -40.0                      | 5.5             | 16.9            | 83.9                       | 78.4        | 67.0        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]  
Distance factor: 40 x log (3m/30m) = -40 dB  
Limits (30m)  
•13.553MHz to 13.567MHz : 83.9dBuV/m (FCC 15.225(a))

**Spurious emission within the band**

| No. | FREQ<br>[MHz] | Test Receiver<br>Reading |               | Antenna<br>Factor<br>[dB/m] | LOSS<br>[dB] | AMP<br>GAIN<br>[dB] | Distance<br>factor<br>[dB] | RESULT          |                 | LIMIT<br>(30m)<br>[dBuV/m] | MARGIN      |             |
|-----|---------------|--------------------------|---------------|-----------------------------|--------------|---------------------|----------------------------|-----------------|-----------------|----------------------------|-------------|-------------|
|     |               | Hor<br>[dBuV]            | Ver<br>[dBuV] |                             |              |                     |                            | Hor<br>[dBuV/m] | Ver<br>[dBuV/m] |                            | Hor<br>[dB] | Ver<br>[dB] |
| 1   | 13.110        | 30.2                     | 30.3          | 19.0                        | 6.4          | 31.8                | -40.0                      | -16.2           | -16.1           | 29.5                       | 45.7        | 45.6        |
| 2   | 13.348        | 31.9                     | 40.7          | 19.0                        | 6.5          | 31.8                | -40.0                      | -14.4           | -5.6            | 40.5                       | 54.9        | 46.1        |
| 3   | 13.410        | 30.2                     | 31.6          | 19.0                        | 6.5          | 31.8                | -40.0                      | -16.1           | -14.7           | 40.5                       | 56.6        | 55.2        |
| 4   | 13.453        | 33.7                     | 43.7          | 19.0                        | 6.5          | 31.8                | -40.0                      | -12.6           | -2.6            | 50.4                       | 63.0        | 53.0        |
| 5   | 13.553        | 38.3                     | 48.5          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.0            | 2.2             | 50.4                       | 58.4        | 48.2        |
| 6   | 13.567        | 38.1                     | 48.3          | 19.0                        | 6.5          | 31.8                | -40.0                      | -8.2            | 2.0             | 50.4                       | 58.6        | 48.4        |
| 7   | 13.667        | 33.5                     | 42.9          | 19.0                        | 6.5          | 31.8                | -40.0                      | -12.8           | -3.4            | 50.4                       | 63.2        | 53.8        |
| 8   | 13.710        | 30.3                     | 31.0          | 19.0                        | 6.5          | 31.8                | -40.0                      | -16.0           | -15.3           | 40.5                       | 56.5        | 55.8        |
| 9   | 13.772        | 31.6                     | 39.7          | 19.0                        | 6.5          | 31.8                | -40.0                      | -14.7           | -6.6            | 40.5                       | 55.2        | 47.1        |
| 10  | 14.010        | 30.3                     | 30.3          | 19.0                        | 6.5          | 31.8                | -40.0                      | -16.0           | -16             | 29.5                       | 45.5        | 45.5        |

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]+Distance factor[dB]

Outside filed strength frequencies  
•Fc±7kHz:13.553MHz to 13.567MHz  
•Fc±150kHz:13.410MHz to 13.710MHz  
•Fc±450kHz:13.110MHz to 14.010MHz  
Fc = 13.56MHz

Limits (30m)  
•13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : 50.4dBuV/m (FCC 15.225(b))  
•13.110MHz to 13.410MHz and 13.710MHz to 14.010MHz : 40.5dBuV/m (FCC 15.225(c))  
•Below 13.110MHz and Above 14.010MHz : 29.5dBuV/m (FCC 15.225(d)and FCC 15.209)

## Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.1&amp;3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.  
 Equipment: Refer to section 2.2  
 Model: RED-001  
 Sample No.: QW09500113 5  
 Power: AC 120V / 60Hz  
 Mode: Transmitting 13.56MHz  
 EUT axis: Below 30MHz( Horizontal X-axis, Vertical Z-axis), NFC type B, with Tag  
 Above 30MHz( Horizontal: X-axis, Vertical: X-axis), NFC type B, with Tag  
 Remarks: X'tal A, Mitsumi's AC adaptor

Regulation: FCC Part15 Subpart C 15.225

Test Distance 3m

Date: June 25, 2014 , June 28, 2014

Temperature: 24 deg.C , 25 deg.C

Humidity: 61 %RH , 55 %RH

ENGINEER: Kenichi Adachi , Akio Hayashi

(below 30MHz) (above 30MHz)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark       |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|--------------|
| Hori.    | 12.71              | QP       | 30.6              | 19.0               | 6.4          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 198             | * Limit: 30m |
| Hori.    | 14.41              | QP       | 30.5              | 19.0               | 6.5          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 198             | * Limit: 30m |
| Hori.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Hori.    | 111.27             | QP       | 40.0              | 11.7               | 7.2          | 32.1         |                         | 26.8               | 43.5              | 16.7           | 288            | 74              |              |
| Hori.    | 248.73             | QP       | 39.1              | 17.0               | 8.1          | 32.0         |                         | 32.2               | 46.0              | 13.8           | 138            | 28              |              |
| Hori.    | 274.92             | QP       | 39.2              | 17.9               | 8.3          | 32.0         |                         | 33.4               | 46.0              | 12.6           | 124            | 178             |              |
| Hori.    | 393.24             | QP       | 36.4              | 16.2               | 8.8          | 32.0         |                         | 29.4               | 46.0              | 16.6           | 100            | 138             |              |
| Hori.    | 670.29             | QP       | 34.4              | 19.4               | 9.8          | 31.9         |                         | 31.7               | 46.0              | 14.3           | 137            | 168             |              |
| Hori.    | 938.40             | QP       | 30.4              | 21.9               | 10.8         | 30.7         |                         | 32.4               | 46.0              | 13.6           | 100            | 192             |              |
| Vert.    | 12.71              | QP       | 37.4              | 19.0               | 6.4          | 31.8         | -40.0                   | -9.0               | 29.5              | 38.5           | -              | 321             | * Limit: 30m |
| Vert.    | 14.41              | QP       | 33.8              | 19.0               | 6.5          | 31.8         | -40.0                   | -12.5              | 29.5              | 42.0           | -              | 321             | * Limit: 30m |
| Vert.    | 27.12              | QP       | 29.3              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.9              | 29.5              | 45.4           | -              | 0               | * Limit: 30m |
| Vert.    | 50.27              | QP       | 39.9              | 10.7               | 6.8          | 32.2         |                         | 25.2               | 40.0              | 14.8           | 103            | 249             |              |
| Vert.    | 52.36              | QP       | 45.6              | 10.1               | 6.7          | 32.2         |                         | 30.2               | 40.0              | <b>9.8</b>     | 100            | 167             |              |
| Vert.    | 58.91              | QP       | 40.6              | 8.4                | 6.5          | 32.2         |                         | 23.3               | 40.0              | 16.7           | 100            | 183             |              |
| Vert.    | 111.27             | QP       | 41.3              | 11.7               | 7.2          | 32.1         |                         | 28.1               | 43.5              | 15.4           | 100            | 278             |              |

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amplifier) + Distance factor(below 30MHz)

\* Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\* Carrier level (Result at 3m): Hor= 45.4dBuV/m, Ver= 57 dBuV/m

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## Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.1&amp;3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.  
 Equipment: Refer to section 2.2  
 Model: RED-001  
 Sample No.: QW09500113 5  
 Power: AC 120V / 60Hz  
 Mode: Transmitting 13.56MHz  
 EUT axis: Below 30MHz( Horizontal X-axis, Vertical Z-axis), NFC type B, with Tag  
 Above 30MHz( Horizontal: X-axis, Vertical: X-axis), NFC type B, with Tag  
 Remarks: X'tal A, Tabuchi's AC adaptor

Regulation: FCC Part15 Subpart C 15.225

Test Distance 3m

Date: June 25, 2014 , June 28, 2014

Temperature: 24 deg.C , 25 deg.C

Humidity: 61 %RH , 55 %RH

ENGINEER: Kenichi Adachi , Akio Hayashi

(below 30MHz) (above 30MHz)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark       |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|--------------|
| Hori.    | 12.71              | QP       | 30.4              | 19.0               | 6.4          | 31.8         | -40.0                   | -16.0              | 29.5              | 45.5           | -              | 216             | * Limit: 30m |
| Hori.    | 14.41              | QP       | 30.5              | 19.0               | 6.5          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 216             | * Limit: 30m |
| Hori.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Hori.    | 104.73             | QP       | 43.2              | 10.7               | 7.2          | 32.1         |                         | 29.0               | 43.5              | 14.5           | 171            | 109             |              |
| Hori.    | 111.27             | QP       | 41.6              | 11.7               | 7.2          | 32.1         |                         | 28.4               | 43.5              | 15.1           | 313            | 105             |              |
| Hori.    | 248.74             | QP       | 40.0              | 17.0               | 8.1          | 32.0         |                         | 33.1               | 46.0              | 12.9           | 130            | 15              |              |
| Hori.    | 274.92             | QP       | 38.6              | 17.9               | 8.3          | 32.0         |                         | 32.8               | 46.0              | 13.2           | 126            | 183             |              |
| Hori.    | 670.29             | QP       | 33.8              | 19.4               | 9.8          | 31.9         |                         | 31.1               | 46.0              | 14.9           | 141            | 135             |              |
| Hori.    | 938.40             | QP       | 29.9              | 21.9               | 10.8         | 30.7         |                         | 31.9               | 46.0              | 14.1           | 150            | 77              |              |
| Vert.    | 12.71              | QP       | 37.5              | 19.0               | 6.4          | 31.8         | -40.0                   | -8.9               | 29.5              | 38.4           | -              | 307             | * Limit: 30m |
| Vert.    | 14.41              | QP       | 35.8              | 19.0               | 6.5          | 31.8         | -40.0                   | -10.5              | 29.5              | 40.0           | -              | 307             | * Limit: 30m |
| Vert.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Vert.    | 52.37              | QP       | 44.9              | 10.1               | 6.7          | 32.2         |                         | 29.5               | 40.0              | 10.5           | 100            | 187             |              |
| Vert.    | 94.92              | QP       | 42.2              | 9.1                | 7.4          | 32.1         |                         | 26.6               | 43.5              | 16.9           | 100            | 357             |              |

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amplifier) + Distance factor(below 30MHz)

\* Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\* Carrier level (Result at 3m): Hor= 46.4dBuV/m, Ver= 56.9 dBuV/m

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## Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.1&amp;3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.

Equipment: Refer to section 2.2

Model: RED-001

Sample No.: QW09500113 5

Power: AC 120V / 60Hz

Mode: Transmitting 13.56MHz

EUT axis: Below 30MHz( Horizontal X-axis, Vertical Z-axis), NFC type B, with Tag  
Above 30MHz( Horizontal: X-axis, Vertical: X-axis), NFC type B, with Tag

Remarks: X'tal A, Nichicon's AC adaptor

Regulation: FCC Part15 Subpart C 15.225

Test Distance 3m

Date: June 25, 2014 , June 28, 2014

Temperature: 24 deg.C , 25 deg.C

Humidity: 61 %RH , 55 %RH

ENGINEER: Kenichi Adachi , Akio Hayashi  
(below 30MHz) (above 30MHz)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark       |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|--------------|
| Hori.    | 12.71              | QP       | 30.5              | 19.0               | 6.4          | 31.8         | -40.0                   | -15.9              | 29.5              | 45.4           | -              | 213             | * Limit: 30m |
| Hori.    | 14.41              | QP       | 30.5              | 19.0               | 6.5          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 213             | * Limit: 30m |
| Hori.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Hori.    | 94.92              | QP       | 44.0              | 9.1                | 7.4          | 32.1         |                         | 28.4               | 43.5              | 15.1           | 183            | 99              |              |
| Hori.    | 111.28             | QP       | 41.6              | 11.7               | 7.2          | 32.1         |                         | 28.4               | 43.5              | 15.1           | 344            | 123             |              |
| Hori.    | 248.72             | QP       | 39.4              | 17.0               | 8.1          | 32.0         |                         | 32.5               | 46.0              | 13.5           | 135            | 178             |              |
| Hori.    | 255.29             | QP       | 37.0              | 17.2               | 8.2          | 32.0         |                         | 30.4               | 46.0              | 15.6           | 135            | 181             |              |
| Hori.    | 670.29             | QP       | 33.2              | 19.4               | 9.8          | 31.9         |                         | 30.5               | 46.0              | 15.5           | 124            | 157             |              |
| Hori.    | 938.40             | QP       | 29.0              | 21.9               | 10.8         | 30.7         |                         | 31.0               | 46.0              | 15.0           | 161            | 197             |              |
| Vert.    | 12.71              | QP       | 37.4              | 19.0               | 6.4          | 31.8         | -40.0                   | -9.0               | 29.5              | 38.5           | -              | 320             | * Limit: 30m |
| Vert.    | 14.41              | QP       | 33.6              | 19.0               | 6.5          | 31.8         | -40.0                   | -12.7              | 29.5              | 42.2           | -              | 320             | * Limit: 30m |
| Vert.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Vert.    | 50.27              | QP       | 40.7              | 10.7               | 6.8          | 32.2         |                         | 26.0               | 40.0              | 14.0           | 100            | 191             |              |
| Vert.    | 52.37              | QP       | 45.8              | 10.1               | 6.7          | 32.2         |                         | 30.4               | 40.0              | <b>9.6</b>     | 100            | 189             |              |
| Vert.    | 94.92              | QP       | 40.5              | 9.1                | 7.4          | 32.1         |                         | 24.9               | 43.5              | 18.6           | 100            | 356             |              |
| Vert.    | 111.28             | QP       | 42.5              | 11.7               | 7.2          | 32.1         |                         | 29.3               | 43.5              | 14.2           | 100            | 290             |              |

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amplifier) + Distance factor(below 30MHz)

\* Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\* Carrier level (Result at 3m): Hor= 45.9dBuV/m, Ver= 56.8 dBuV/m

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## Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.1&amp;3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.  
 Equipment: Refer to section 2.2  
 Model: RED-001  
 Sample No.: QW09500351 1  
 Power: AC 120V / 60Hz  
 Mode: Transmitting 13.56MHz  
 EUT axis: Below 30MHz( Horizontal X-axis, Vertical Z-axis), NFC type B, with Tag  
 Above 30MHz( Horizontal: X-axis, Vertical: X-axis), NFC type B, with Tag  
 Remarks: X'tal B, Mitsumi's AC adaptor

Regulation: FCC Part15 Subpart C 15.225

Test Distance 3m

Date: June 25, 2014 , June 28, 2014

Temperature: 24 deg.C , 25 deg.C

Humidity: 61 %RH , 55 %RH

ENGINEER: Kenichi Adachi , Akio Hayashi

(below 30MHz) (above 30MHz)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark       |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|--------------|
| Hori.    | 12.71              | QP       | 30.5              | 19.0               | 6.4          | 31.8         | -40.0                   | -15.9              | 29.5              | 45.4           | -              | 208             | * Limit: 30m |
| Hori.    | 14.41              | QP       | 30.5              | 19.0               | 6.5          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 208             | * Limit: 30m |
| Hori.    | 27.12              | QP       | 29.5              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.7              | 29.5              | 45.2           | -              | 0               | * Limit: 30m |
| Hori.    | 94.92              | QP       | 43.6              | 9.1                | 7.4          | 32.1         |                         | 28.0               | 43.5              | 15.5           | 198            | 97              |              |
| Hori.    | 104.73             | QP       | 40.2              | 10.7               | 7.2          | 32.1         |                         | 26.0               | 43.5              | 17.5           | 160            | 89              |              |
| Hori.    | 203.40             | QP       | 33.7              | 16.5               | 7.9          | 32.1         |                         | 26.0               | 43.5              | 17.5           | 156            | 37              |              |
| Hori.    | 268.11             | QP       | 35.6              | 17.7               | 8.2          | 32.0         |                         | 29.5               | 46.0              | 16.5           | 126            | 359             |              |
| Hori.    | 393.23             | QP       | 37.8              | 16.2               | 8.8          | 32.0         |                         | 30.8               | 46.0              | 15.2           | 100            | 143             |              |
| Vert.    | 12.71              | QP       | 38.3              | 19.0               | 6.4          | 31.8         | -40.0                   | -8.1               | 29.5              | 37.6           | -              | 310             | * Limit: 30m |
| Vert.    | 14.41              | QP       | 35.4              | 19.0               | 6.5          | 31.8         | -40.0                   | -10.9              | 29.5              | 40.4           | -              | 310             | * Limit: 30m |
| Vert.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Vert.    | 40.68              | QP       | 41.3              | 14.2               | 6.6          | 32.2         |                         | 29.9               | 40.0              | 10.1           | 100            | 110             |              |
| Vert.    | 104.71             | QP       | 36.8              | 10.7               | 7.2          | 32.1         |                         | 22.6               | 43.5              | 20.9           | 100            | 302             |              |

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amplifier) + Distance factor(below 30MHz)

\* Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\* Carrier level (Result at 3m): Hor= 45dBuV/m, Ver= 58.3 dBuV/m

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## Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.1&amp;3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.

Equipment: Refer to section 2.2

Model: RED-001

Sample No.: QW09500351 1

Power: AC 120V / 60Hz

Mode: Transmitting 13.56MHz

EUT axis: Below 30MHz( Horizontal X-axis, Vertical Z-axis), NFC type B, with Tag  
Above 30MHz( Horizontal: X-axis, Vertical: X-axis), NFC type B, with Tag

Remarks: X'tal B, Tabuchi's AC adaptor

Regulation: FCC Part15 Subpart C 15.225

Test Distance 3m

Date: June 25, 2014 , June 28, 2014

Temperature: 24 deg.C , 25 deg.C

Humidity: 61 %RH , 55 %RH

ENGINEER: Kenichi Adachi , Akio Hayashi  
(below 30MHz) (above 30MHz)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark       |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|--------------|
| Hori.    | 12.71              | QP       | 30.5              | 19.0               | 6.4          | 31.8         | -40.0                   | -15.9              | 29.5              | 45.4           | -              | 205             | * Limit: 30m |
| Hori.    | 14.41              | QP       | 30.5              | 19.0               | 6.5          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 205             | * Limit: 30m |
| Hori.    | 27.12              | QP       | 29.5              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.7              | 29.5              | 45.2           | -              | 0               | * Limit: 30m |
| Hori.    | 94.92              | QP       | 43.2              | 9.1                | 7.4          | 32.1         |                         | 27.6               | 43.5              | 15.9           | 209            | 88              |              |
| Hori.    | 104.73             | QP       | 34.8              | 10.7               | 7.2          | 32.1         |                         | 20.6               | 43.5              | 22.9           | 164            | 101             |              |
| Hori.    | 203.40             | QP       | 33.3              | 16.5               | 7.9          | 32.1         |                         | 25.6               | 43.5              | 17.9           | 100            | 37              |              |
| Hori.    | 268.11             | QP       | 35.6              | 17.7               | 8.2          | 32.0         |                         | 29.5               | 46.0              | 16.5           | 125            | 359             |              |
| Hori.    | 393.24             | QP       | 38.4              | 16.2               | 8.8          | 32.0         |                         | 31.4               | 46.0              | 14.6           | 100            | 139             |              |
| Hori.    | 670.27             | QP       | 33.8              | 19.4               | 9.8          | 31.9         |                         | 31.1               | 46.0              | 14.9           | 133            | 148             |              |
| Vert.    | 12.71              | QP       | 39.3              | 19.0               | 6.4          | 31.8         | -40.0                   | -7.1               | 29.5              | 36.6           | -              | 322             | * Limit: 30m |
| Vert.    | 14.41              | QP       | 37.3              | 19.0               | 6.5          | 31.8         | -40.0                   | -9.0               | 29.5              | 38.5           | -              | 312             | * Limit: 30m |
| Vert.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Vert.    | 40.68              | QP       | 40.1              | 14.2               | 6.6          | 32.2         |                         | 28.7               | 40.0              | 11.3           | 100            | 146             |              |
| Vert.    | 94.92              | QP       | 42.5              | 9.1                | 7.4          | 32.1         |                         | 26.9               | 43.5              | 16.6           | 100            | 359             |              |
| Vert.    | 104.73             | QP       | 38.9              | 10.7               | 7.2          | 32.1         |                         | 24.7               | 43.5              | 18.8           | 100            | 135             |              |

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amplifier) + Distance factor(below 30MHz)

\* Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\* Carrier level (Result at 3m): Hor= 44.6dBuV/m, Ver= 59 dBuV/m

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## Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.1&amp;3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.

Equipment: Refer to section 2.2

Model: RED-001

Sample No.: QW09500351 1

Power: AC 120V / 60Hz

Mode: Transmitting 13.56MHz

EUT axis: Below 30MHz( Horizontal X-axis, Vertical Z-axis), NFC type B, with Tag  
Above 30MHz( Horizontal: X-axis, Vertical: X-axis), NFC type B, with Tag

Remarks: X'tal B, Nichicon's AC adaptor

Regulation: FCC Part15 Subpart C 15.225

Test Distance 3m

Date: June 25, 2014 , June 28, 2014

Temperature: 24 deg.C , 25 deg.C

Humidity: 61 %RH , 55 %RH

ENGINEER: Kenichi Adachi , Akio Hayashi  
(below 30MHz) (above 30MHz)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark       |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|--------------|
| Hori.    | 12.71              | QP       | 30.5              | 19.0               | 6.4          | 31.8         | -40.0                   | -15.9              | 29.5              | 45.4           | -              | 213             | * Limit: 30m |
| Hori.    | 14.41              | QP       | 30.5              | 19.0               | 6.5          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 213             | * Limit: 30m |
| Hori.    | 27.12              | QP       | 29.4              | 19.8               | 6.8          | 31.8         | -40.0                   | -15.8              | 29.5              | 45.3           | -              | 0               | * Limit: 30m |
| Hori.    | 94.92              | QP       | 44.4              | 9.1                | 7.4          | 32.1         |                         | 28.8               | 43.5              | 14.7           | 181            | 102             |              |
| Hori.    | 104.73             | QP       | 40.5              | 10.7               | 7.2          | 32.1         |                         | 26.3               | 43.5              | 17.2           | 154            | 102             |              |
| Hori.    | 203.40             | QP       | 34.1              | 16.5               | 7.9          | 32.1         |                         | 26.4               | 43.5              | 17.1           | 100            | 38              |              |
| Hori.    | 268.11             | QP       | 35.8              | 17.7               | 8.2          | 32.0         |                         | 29.7               | 46.0              | 16.3           | 126            | 0               |              |
| Hori.    | 393.24             | QP       | 37.9              | 16.2               | 8.8          | 32.0         |                         | 30.9               | 46.0              | 15.1           | 100            | 124             |              |
| Vert.    | 12.71              | QP       | 38.4              | 19.0               | 6.4          | 31.8         | -40.0                   | -8.0               | 29.5              | 37.5           | -              | 309             | * Limit: 30m |
| Vert.    | 14.41              | QP       | 35.4              | 19.0               | 6.5          | 31.8         | -40.0                   | -10.9              | 29.5              | 40.4           | -              | 309             | * Limit: 30m |
| Vert.    | 27.12              | QP       | 29.0              | 19.8               | 6.8          | 31.8         | -40.0                   | -16.2              | 29.5              | 45.7           | -              | 0               | * Limit: 30m |
| Vert.    | 40.68              | QP       | 40.9              | 14.2               | 6.6          | 32.2         |                         | 29.5               | 40.0              | 10.5           | 100            | 85              |              |
| Vert.    | 52.36              | QP       | 34.0              | 10.1               | 6.7          | 32.2         |                         | 18.6               | 40.0              | 21.4           | 100            | 240             |              |
| Vert.    | 94.92              | QP       | 40.1              | 9.1                | 7.4          | 32.1         |                         | 24.5               | 43.5              | 19.0           | 100            | 348             |              |

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amplifier) + Distance factor(below 30MHz)

\* Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\* Carrier level (Result at 3m): Hor= 44.7dBuV/m, Ver= 58.4 dBuV/m

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## Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.1&amp;3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.

Equipment: Refer to section 2.2

Model: RED-001

Sample No.: QW09500113 5

Power: AC 120V / 60Hz

Mode: Transmitting 13.56MHz

EUT axis: Below 30MHz( Horizontal X-axis, Vertical Z-axis), NFC type A, with Tag  
Above 30MHz( Horizontal: X-axis, Vertical: X-axis), NFC type A, with Tag

Remarks: X'tal A, Mitsumi's AC adaptor

Regulation: FCC Part15 Subpart C 15.225

Test Distance 3m

Date: June 25, 2014 , June 28, 2014

Temperature: 24 deg.C , 25 deg.C

Humidity: 61 %RH , 55 %RH

ENGINEER: Kenichi Adachi , Akio Hayashi  
(below 30MHz) (above 30MHz)

| Polarity | Frequency<br>[MHz] | Detector | Reading<br>[dBuV] | Ant.Fac.<br>[dB/m] | Loss<br>[dB] | Gain<br>[dB] | Distance Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[deg.] | Remark       |
|----------|--------------------|----------|-------------------|--------------------|--------------|--------------|-------------------------|--------------------|-------------------|----------------|----------------|-----------------|--------------|
| Hori.    | 27.12              | QP       | 29.4              | 19.0               | 6.4          | 31.8         | -40.0                   | -17.0              | 29.5              | 46.5           | -              | 143             | * Limit: 30m |
| Hori.    | 111.28             | QP       | 40.2              | 11.7               | 7.2          | 32.1         |                         | 27.0               | 43.5              | 16.5           | 295            | 84              |              |
| Hori.    | 117.83             | QP       | 38.4              | 12.7               | 7.1          | 32.1         |                         | 26.1               | 43.5              | 17.4           | 150            | 234             |              |
| Hori.    | 242.19             | QP       | 36.4              | 16.9               | 8.1          | 32.0         |                         | 29.4               | 46.0              | 16.6           | 146            | 53              |              |
| Hori.    | 248.74             | QP       | 36.3              | 17.0               | 8.1          | 32.0         |                         | 29.4               | 46.0              | 16.6           | 127            | 181             |              |
| Vert.    | 27.12              | QP       | 29.4              | 19.0               | 6.4          | 31.8         | -40.0                   | -17.0              | 29.5              | 46.5           | -              | 211             | * Limit: 30m |
| Vert.    | 52.37              | QP       | 44.8              | 10.1               | 6.7          | 32.2         |                         | 29.4               | 40.0              | <b>10.6</b>    | 100            | 264             |              |
| Vert.    | 111.28             | QP       | 41.1              | 11.7               | 7.2          | 32.1         |                         | 27.9               | 43.5              | 15.6           | 100            | 244             |              |
| Vert.    | 117.30             | QP       | 39.7              | 12.7               | 7.1          | 32.1         |                         | 27.4               | 43.5              | 16.1           | 100            | 269             |              |

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amplifier) + Distance factor(below 30MHz)

\* Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

\* Carrier level (Result at 3m): Hor= 45.5dBuV/m, Ver= 56.9 dBuV/m

UL Japan, Inc.

Shonan EMC Lab.

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Facsimile : +81 463 50 6401

## Data of Frequency Tolerance

UL Japan, Inc.

Shonan EMC Lab. No.5 Shielded room

Company NINTENDO CO., LTD.

Equipment Refer to section 2.2

Model RED-001

Serial No. QW09500113 5

Power DC 3.7V

Mode Transmitting 13.56 MHz

Remarks X'tal A

Regulation FCC Part15 Subpart C 15.225 (e)

Date June 30, 2014

Temperature 25deg.C

Humidity 53%RH

ENGINEER Shinichi Takano

### Temperature Variation: -20deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559982               | -0.000018             | -0.00013                | 0.010     |
| after 2minutes  | 13.56                    | 13.560030               | 0.000030              | 0.00022                 | 0.010     |
| after 5minutes  | 13.56                    | 13.560039               | 0.000039              | 0.00029                 | 0.010     |
| after 10minutes | 13.56                    | 13.560044               | 0.000044              | 0.00032                 | 0.010     |

### Temperature Variation: -10deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.560014               | 0.000014              | 0.00010                 | 0.010     |
| after 2minutes  | 13.56                    | 13.560046               | 0.000046              | 0.00034                 | 0.010     |
| after 5minutes  | 13.56                    | 13.560048               | 0.000048              | 0.00035                 | 0.010     |
| after 10minutes | 13.56                    | 13.560047               | 0.000047              | 0.00035                 | 0.010     |

### Temperature Variation: 0deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.560040               | 0.000040              | 0.00029                 | 0.010     |
| after 2minutes  | 13.56                    | 13.560046               | 0.000046              | 0.00034                 | 0.010     |
| after 5minutes  | 13.56                    | 13.560041               | 0.000041              | 0.00030                 | 0.010     |
| after 10minutes | 13.56                    | 13.560037               | 0.000037              | 0.00027                 | 0.010     |

### Temperature Variation: 10deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.560043               | 0.000043              | 0.00032                 | 0.010     |
| after 2minutes  | 13.56                    | 13.560032               | 0.000032              | 0.00024                 | 0.010     |
| after 5minutes  | 13.56                    | 13.560026               | 0.000026              | 0.00019                 | 0.010     |
| after 10minutes | 13.56                    | 13.560019               | 0.000019              | 0.00014                 | 0.010     |

### Temperature Variation: 20deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.560032               | 0.000032              | 0.00024                 | 0.010     |
| after 2minutes  | 13.56                    | 13.560015               | 0.000015              | 0.00011                 | 0.010     |
| after 5minutes  | 13.56                    | 13.560009               | 0.000009              | 0.00007                 | 0.010     |
| after 10minutes | 13.56                    | 13.560004               | 0.000004              | 0.00003                 | 0.010     |

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## Data of Frequency Tolerance

### Temperature Variation: 30deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.560014               | 0.000014              | 0.00010                 | 0.010     |
| after 2minutes  | 13.56                    | 13.559999               | -0.000001             | -0.00001                | 0.010     |
| after 5minutes  | 13.56                    | 13.559995               | -0.000005             | -0.00004                | 0.010     |
| after 10minutes | 13.56                    | 13.559993               | -0.000007             | -0.00005                | 0.010     |

### Temperature Variation: 40deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559997               | -0.000003             | -0.00002                | 0.010     |
| after 2minutes  | 13.56                    | 13.559993               | -0.000007             | -0.00005                | 0.010     |
| after 5minutes  | 13.56                    | 13.559995               | -0.000005             | -0.00004                | 0.010     |
| after 10minutes | 13.56                    | 13.559996               | -0.000004             | -0.00003                | 0.010     |

### Temperature Variation: 50deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559990               | -0.000010             | -0.00007                | 0.010     |
| after 2minutes  | 13.56                    | 13.559998               | -0.000002             | -0.00001                | 0.010     |
| after 5minutes  | 13.56                    | 13.560007               | 0.000007              | 0.00005                 | 0.010     |
| after 10minutes | 13.56                    | 13.560009               | 0.000009              | 0.00007                 | 0.010     |

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## Data of Frequency Tolerance (Reference data)

UL Japan, Inc.

Shonan EMC Lab. No.5 Shielded room

Company NINTENDO CO., LTD.  
 Equipment Refer to section 2.2  
 Model RED-001  
 Serial No. QW09500113 5  
 Power DC 3.7V  
 Mode Transmitting 13.56 MHz  
 Remarks X'tal A

Regulation FCC Part15 Subpart C 15.225 (e)  
 Date June 30, 2014  
 Temperature 25deg.C  
 Humidity 53%RH  
 ENGINEER Shinichi Takano

**Voltage Variation: DC 3.145 V****Temperature Variation: 20deg.C**

| Test Conditions | Original<br>Frequency<br>(MHz) | Measure<br>Frequency<br>(MHz) | Frequency<br>Error<br>(MHz) | Frequency<br>tolerance<br>(%) | Limit<br>(%) |
|-----------------|--------------------------------|-------------------------------|-----------------------------|-------------------------------|--------------|
| startup         | 13.56                          | 13.560009                     | 0.000009                    | 0.00007                       | 0.010        |
| after 2minutes  | 13.56                          | 13.560002                     | 0.000002                    | 0.00001                       | 0.010        |
| after 5minutes  | 13.56                          | 13.559998                     | -0.000002                   | -0.00001                      | 0.010        |
| after 10minutes | 13.56                          | 13.559996                     | -0.000004                   | -0.00003                      | 0.010        |

**Voltage Variation: DC 4.255 V****Temperature Variation: 20deg.C**

| Test Conditions | Original<br>Frequency<br>(MHz) | Measure<br>Frequency<br>(MHz) | Frequency<br>Error<br>(MHz) | Frequency<br>tolerance<br>(%) | Limit<br>(%) |
|-----------------|--------------------------------|-------------------------------|-----------------------------|-------------------------------|--------------|
| startup         | 13.56                          | 13.560008                     | 0.000008                    | 0.00006                       | 0.010        |
| after 2minutes  | 13.56                          | 13.559999                     | -0.000001                   | -0.00001                      | 0.010        |
| after 5minutes  | 13.56                          | 13.559996                     | -0.000004                   | -0.00003                      | 0.010        |
| after 10minutes | 13.56                          | 13.559995                     | -0.000005                   | -0.00004                      | 0.010        |

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## Data of Frequency Tolerance

UL Japan, Inc.

Shonan EMC Lab. No.5 Shielded room

Company NINTENDO CO., LTD.  
 Equipment Refer to section 2.2  
 Model RED-001  
 Serial No. QW09500351 1  
 Power DC 3.7V  
 Mode Transmitting 13.56 MHz  
 Remarks X'tal B

Regulation FCC Part15 Subpart C 15.225 (e)  
 Date July 1, 2014  
 Temperature 25deg.C  
 Humidity 52%RH  
 ENGINEER Shinichi Takano

### Temperature Variation: -20deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559887               | -0.000113             | -0.00083                | 0.010     |
| after 2minutes  | 13.56                    | 13.559921               | -0.000079             | -0.00058                | 0.010     |
| after 5minutes  | 13.56                    | 13.559934               | -0.000066             | -0.00049                | 0.010     |
| after 10minutes | 13.56                    | 13.559940               | -0.000060             | -0.00044                | 0.010     |

### Temperature Variation: -10deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559922               | -0.000078             | -0.00058                | 0.010     |
| after 2minutes  | 13.56                    | 13.559946               | -0.000054             | -0.00040                | 0.010     |
| after 5minutes  | 13.56                    | 13.559949               | -0.000051             | -0.00038                | 0.010     |
| after 10minutes | 13.56                    | 13.559950               | -0.000050             | -0.00037                | 0.010     |

### Temperature Variation: 0deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559946               | -0.000054             | -0.00040                | 0.010     |
| after 2minutes  | 13.56                    | 13.559948               | -0.000052             | -0.00038                | 0.010     |
| after 5minutes  | 13.56                    | 13.559944               | -0.000056             | -0.00041                | 0.010     |
| after 10minutes | 13.56                    | 13.559939               | -0.000061             | -0.00045                | 0.010     |

### Temperature Variation: 10deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559948               | -0.000052             | -0.00038                | 0.010     |
| after 2minutes  | 13.56                    | 13.559932               | -0.000068             | -0.00050                | 0.010     |
| after 5minutes  | 13.56                    | 13.559924               | -0.000076             | -0.00056                | 0.010     |
| after 10minutes | 13.56                    | 13.559917               | -0.000083             | -0.00061                | 0.010     |

### Temperature Variation: 20deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559928               | -0.000072             | -0.00053                | 0.010     |
| after 2minutes  | 13.56                    | 13.559907               | -0.000093             | -0.00069                | 0.010     |
| after 5minutes  | 13.56                    | 13.559900               | -0.000100             | -0.00074                | 0.010     |
| after 10minutes | 13.56                    | 13.559894               | -0.000106             | -0.00078                | 0.010     |

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## Data of Frequency Tolerance

### Temperature Variation: 30deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559900               | -0.000100             | -0.00074                | 0.010     |
| after 2minutes  | 13.56                    | 13.559887               | -0.000113             | -0.00083                | 0.010     |
| after 5minutes  | 13.56                    | 13.559883               | -0.000117             | -0.00086                | 0.010     |
| after 10minutes | 13.56                    | 13.559879               | -0.000121             | -0.00089                | 0.010     |

### Temperature Variation: 40deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559884               | -0.000116             | -0.00086                | 0.010     |
| after 2minutes  | 13.56                    | 13.559875               | -0.000125             | -0.00092                | 0.010     |
| after 5minutes  | 13.56                    | 13.559875               | -0.000125             | -0.00092                | 0.010     |
| after 10minutes | 13.56                    | 13.559876               | -0.000124             | -0.00091                | 0.010     |

### Temperature Variation: 50deg.C

| Test Conditions | Original Frequency (MHz) | Measure Frequency (MHz) | Frequency Error (MHz) | Frequency tolerance (%) | Limit (%) |
|-----------------|--------------------------|-------------------------|-----------------------|-------------------------|-----------|
| startup         | 13.56                    | 13.559875               | -0.000125             | -0.00092                | 0.010     |
| after 2minutes  | 13.56                    | 13.559878               | -0.000122             | -0.00090                | 0.010     |
| after 5minutes  | 13.56                    | 13.559883               | -0.000117             | -0.00086                | 0.010     |
| after 10minutes | 13.56                    | 13.559890               | -0.000110             | -0.00081                | 0.010     |

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## Data of Frequency Tolerance (Reference data)

UL Japan, Inc.

Shonan EMC Lab. No.5 Shielded room

Company NINTENDO CO., LTD.  
 Equipment Refer to section 2.2  
 Model RED-001  
 Serial No. QW09500351 1  
 Power DC 3.7V  
 Mode Transmitting 13.56 MHz  
 Remarks X'tal B

Regulation FCC Part15 Subpart C 15.225 (e)  
 Date July 1, 2014  
 Temperature 25deg.C  
 Humidity 52%RH  
 ENGINEER Shinichi Takano

**Voltage Variation: DC 3.145 V****Temperature Variation: 20deg.C**

| Test Conditions | Original<br>Frequency<br>(MHz) | Measure<br>Frequency<br>(MHz) | Frequency<br>Error<br>(MHz) | Frequency<br>tolerance<br>(%) | Limit<br>(%) |
|-----------------|--------------------------------|-------------------------------|-----------------------------|-------------------------------|--------------|
| startup         | 13.56                          | 13.559898                     | -0.000102                   | -0.00075                      | 0.010        |
| after 2minutes  | 13.56                          | 13.559898                     | -0.000102                   | -0.00075                      | 0.010        |
| after 5minutes  | 13.56                          | 13.559887                     | -0.000113                   | -0.00083                      | 0.010        |
| after 10minutes | 13.56                          | 13.559886                     | -0.000114                   | -0.00084                      | 0.010        |

**Voltage Variation: DC 4.255 V****Temperature Variation: 20deg.C**

| Test Conditions | Original<br>Frequency<br>(MHz) | Measure<br>Frequency<br>(MHz) | Frequency<br>Error<br>(MHz) | Frequency<br>tolerance<br>(%) | Limit<br>(%) |
|-----------------|--------------------------------|-------------------------------|-----------------------------|-------------------------------|--------------|
| startup         | 13.56                          | 13.559913                     | -0.000087                   | -0.00064                      | 0.010        |
| after 2minutes  | 13.56                          | 13.559896                     | -0.000104                   | -0.00077                      | 0.010        |
| after 5minutes  | 13.56                          | 13.559891                     | -0.000109                   | -0.00080                      | 0.010        |
| after 10minutes | 13.56                          | 13.559886                     | -0.000114                   | -0.00084                      | 0.010        |

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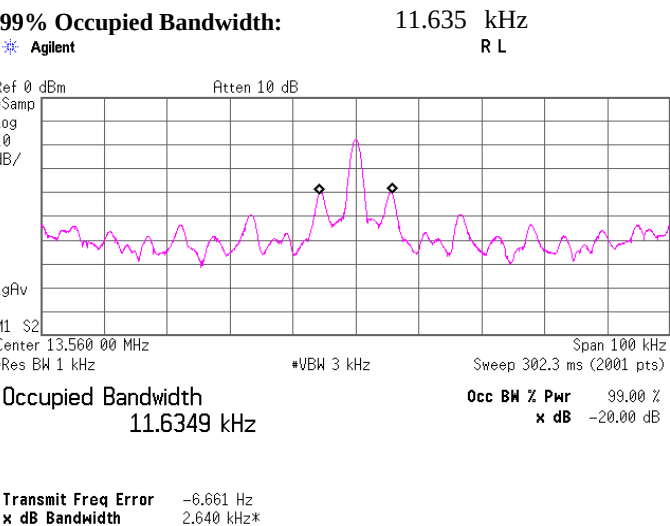
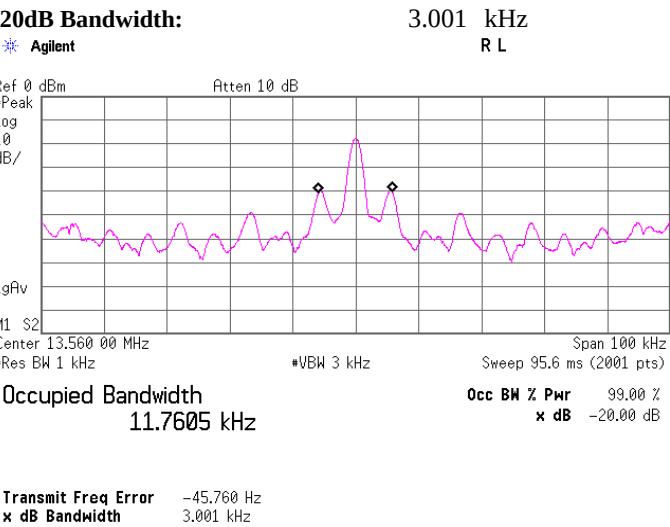
20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

UL Japan, Inc.  
Shonan EMC Lab. No.5 Shielded Room

Regulation: FCC Part15 Subpart C 15.215

Date: June 30, 2014  
Temperature: 25deg.C  
Humidity: 53%RH  
ENGINEER: Shinichi Takano

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500113 5  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz  
Remarks: NFC type A with Tag, X'tal A



## 20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

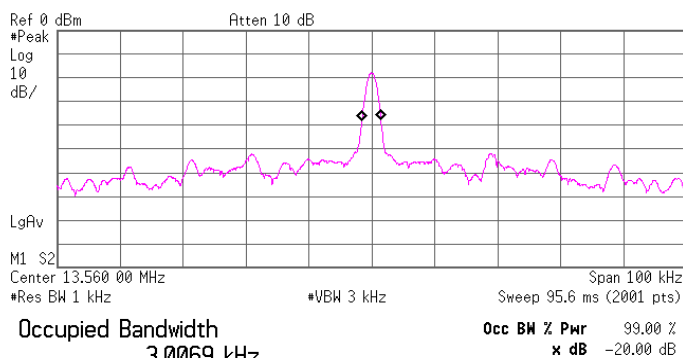
UL Japan, Inc.  
Shonan EMC Lab. No.5 Shielded Room

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500113 5  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz  
Remarks: NFC type B with Tag, X'tal A

Regulation: FCC Part15 Subpart C 15.215

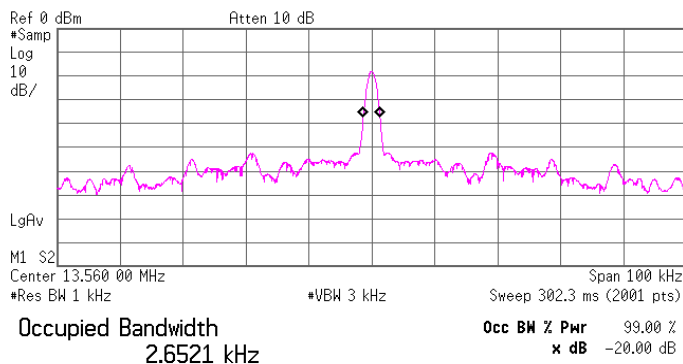
Date: June 30, 2014  
Temperature: 25deg.C  
Humidity: 53%RH  
ENGINEER: Shinichi Takano

**20dB Bandwidth:** 3.015 kHz  
\* Agilent R L



Transmit Freq Error -42.633 Hz  
x dB Bandwidth 3.015 kHz

**99% Occupied Bandwidth:** 2.652 kHz  
\* Agilent R L



Transmit Freq Error -15.506 Hz  
x dB Bandwidth 2.700 kHz\*

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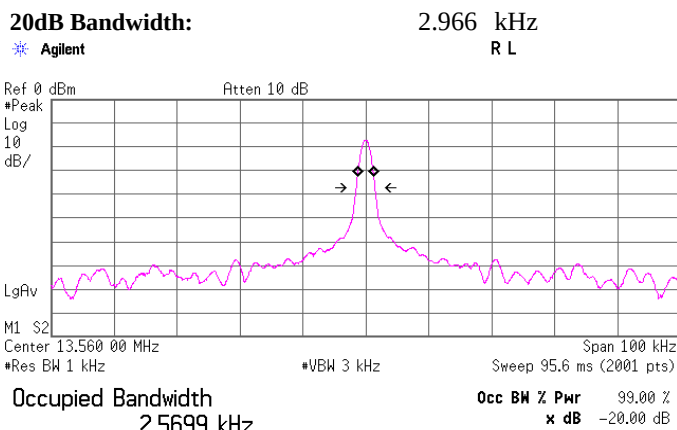
## 20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

UL Japan, Inc.  
Shonan EMC Lab. No.5 Shielded Room

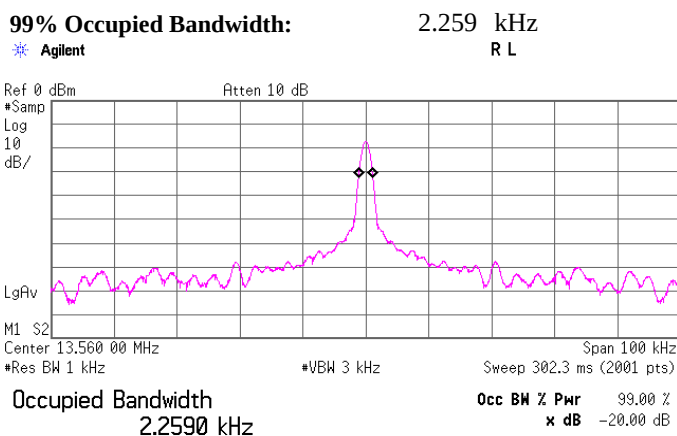
Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500113 5  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz  
Remarks: NFC type F with Tag, X'tal A

Regulation: FCC Part15 Subpart C 15.215

Date: June 30, 2014  
Temperature: 25deg.C  
Humidity: 53%RH  
ENGINEER: Shinichi Takano



Transmit Freq Error -28.751 Hz  
x dB Bandwidth 2.966 kHz



Transmit Freq Error -11.061 Hz  
x dB Bandwidth 2.625 kHz\*

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Shonan EMC Lab.  
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## 20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

UL Japan, Inc.

Shonan EMC Lab. No.5 Shielded Room

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500351 1  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz  
Remarks: NFC type A with Tag, X'tal B

Regulation: FCC Part15 Subpart C 15.215

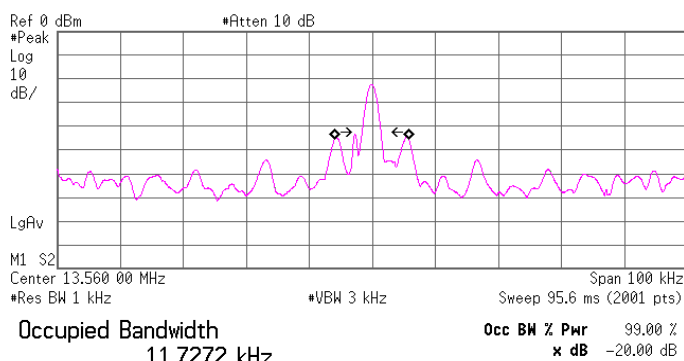
Date: July 1, 2014

Temperature: 25deg.C

Humidity: 52%RH

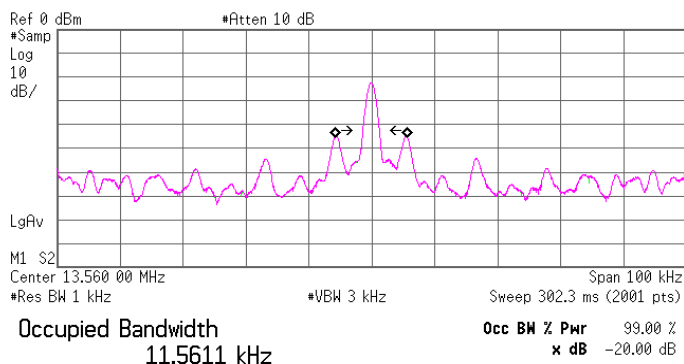
ENGINEER: Shinichi Takano

**20dB Bandwidth:** 2.988 kHz  
\* Agilent R L



Transmit Freq Error -119.050 Hz  
x dB Bandwidth 2.988 kHz

**99% Occupied Bandwidth:** 11.561 kHz  
\* Agilent R L



Transmit Freq Error -100.564 Hz  
x dB Bandwidth 2.642 kHz\*

**UL Japan, Inc.****Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa, Japan 259-1220

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## 20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

UL Japan, Inc.

Shonan EMC Lab. No.5 Shielded Room

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500351 1  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz  
Remarks: NFC type B with Tag, X'tal B

Regulation: FCC Part15 Subpart C 15.215

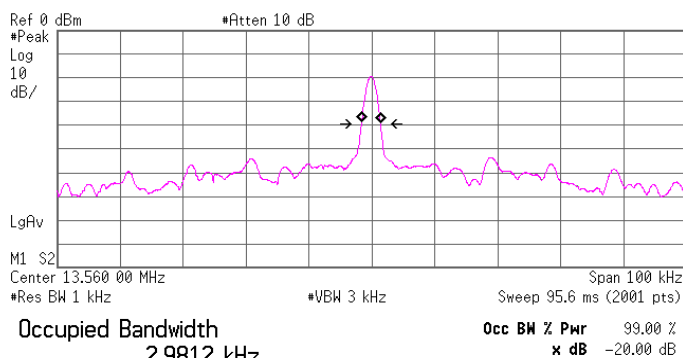
Date: July 1, 2014

Temperature: 25deg.C

Humidity: 52%RH

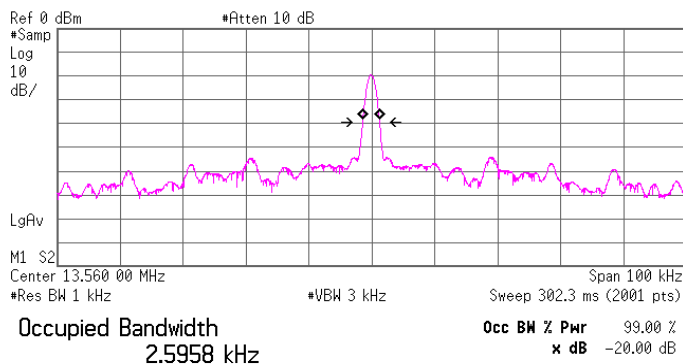
ENGINEER: Shinichi Takano

**20dB Bandwidth:** 3.041 kHz  
\* Agilent R L



Transmit Freq Error -119.793 Hz  
x dB Bandwidth 3.041 kHz

**99% Occupied Bandwidth:** 2.596 kHz  
\* Agilent R L



Transmit Freq Error -97.820 Hz  
x dB Bandwidth 2.694 kHz\*

**UL Japan, Inc.****Shonan EMC Lab.**

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## 20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

UL Japan, Inc.

Shonan EMC Lab. No.5 Shielded Room

Company: NINTENDO CO., LTD.  
Equipment: Refer to section 2.2  
Model: RED-001  
Sample No.: QW09500351 1  
Power: AC 120V / 60Hz  
Mode: Transmitting 13.56MHz  
Remarks: NFC type F with Tag, X'tal B

Regulation: FCC Part15 Subpart C 15.215

Date: July 1, 2014

Temperature: 25deg.C

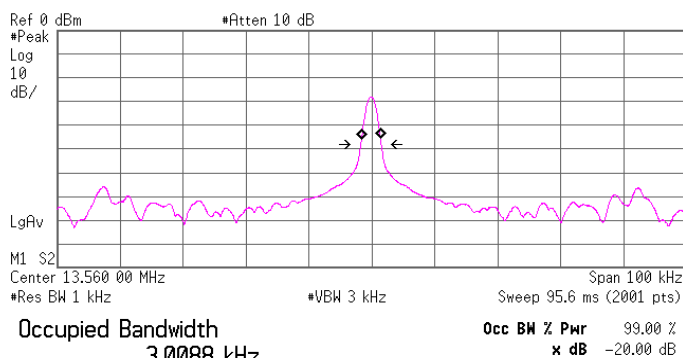
Humidity: 52%RH

ENGINEER: Shinichi Takano

**20dB Bandwidth:** 3.249 kHz

\* Agilent

R L



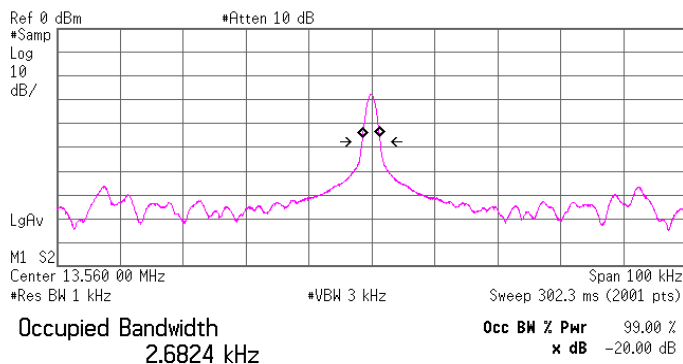
Transmit Freq Error -122.727 Hz

x dB Bandwidth 3.249 kHz

**99% Occupied Bandwidth:** 2.682 kHz

\* Agilent

R L



Transmit Freq Error -105.027 Hz

x dB Bandwidth 2.682 kHz\*

**UL Japan, Inc.****Shonan EMC Lab.**

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## APPENDIX 2

### Test Instruments

#### EMI test equipment

| Control No.                    | Instrument                       | Manufacturer                                | Model No                                   | Serial No                | Test Item | Calibration Date * Interval(month) |
|--------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------|--------------------------|-----------|------------------------------------|
| SCC-C9/C10/SRSE-03             | Coaxial Cable&RF Selector        | Suhner/Suhner/TOYO                          | RG223U/141PE/NS4906                        | -/0901-271 (RF Selector) | CE        | 2014/04/25 * 12                    |
| SLS-02                         | LISN                             | Rohde & Schwarz                             | ENV216                                     | 100512                   | CE        | 2014/03/05 * 12                    |
| SAT3-06                        | Attenuator                       | JFW                                         | 50HF-003N                                  | -                        | CE        | 2014/02/17 * 12                    |
| SOS-06                         | Humidity Indicator               | A&D                                         | AD-5681                                    | 4062118                  | CE        | 2014/03/07 * 12                    |
| STR-06                         | Test Receiver                    | Rohde & Schwarz                             | ESCI                                       | 101259                   | CE, RE    | 2014/03/04 * 12                    |
| SJM-15                         | Measure                          | ASKUL                                       | -                                          | -                        | CE, RE    | -                                  |
| COTS-SEMI-1                    | EMI Software                     | TSJ                                         | TEPTO-DV(RE,CE,RF,LF)                      | -                        | CE, RE    | -                                  |
| SLP-02                         | Loop Antenna                     | Rohde & Schwarz                             | HFH2-Z2                                    | 100218                   | RE        | 2013/11/08 * 12                    |
| SAT6-07                        | Attenuator                       | JFW                                         | 50HF-006N                                  | -                        | RE        | 2014/02/17 * 12                    |
| SCC-A2/A4/A6/A7/A8/A13/SRSE-01 | Coaxial Cable&RF Selector        | Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO | 8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906 | -/0901-269 (RF Selector) | RE        | 2014/04/25 * 12                    |
| SAF-01                         | Pre Amplifier                    | SONOMA                                      | 310N                                       | 290211                   | RE        | 2014/02/17 * 12                    |
| STR-01                         | Test Receiver                    | Rohde & Schwarz                             | ESU40                                      | 100093                   | RE        | 2013/11/20 * 12                    |
| SOS-01                         | Humidity Indicator               | A&D                                         | AD-5681                                    | 4062555                  | RE        | 2014/02/21 * 12                    |
| SJM-13                         | Measure                          | ASKUL                                       | -                                          | -                        | RE        | -                                  |
| SAEC-01(NSA)                   | Semi-Anechoic Chamber            | TDK                                         | SAEC-01(NSA)                               | 1                        | RE        | 2013/07/03 * 12                    |
| SAF-03                         | Pre Amplifier                    | SONOMA                                      | 310N                                       | 290213                   | RE        | 2014/02/14 * 12                    |
| SAT6-06                        | Attenuator                       | JFW                                         | 50HF-006N                                  | -                        | RE        | 2014/02/17 * 12                    |
| SBA-03                         | Biconical Antenna                | Schwarzbeck                                 | BBA9106                                    | 91032666                 | RE        | 2013/10/26 * 12                    |
| SCC-C1/C2/C3/C4/C5/C10/SRSE-03 | Coaxial Cable&RF Selector        | Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO | 8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906 | -/0901-271 (RF Selector) | RE        | 2014/04/25 * 12                    |
| SLA-03                         | Logperiodic Antenna              | Schwarzbeck                                 | UHALP9108A                                 | UHALP 9108-A 0901        | RE        | 2013/10/26 * 12                    |
| SOS-05                         | Humidity Indicator               | A&D                                         | AD-5681                                    | 4062518                  | RE        | 2014/02/21 * 12                    |
| SAEC-03(NSA)                   | Semi-Anechoic Chamber            | TDK                                         | SAEC-03(NSA)                               | 3                        | RE        | 2013/07/09 * 12                    |
| SSA-03                         | Spectrum Analyzer                | Agilent                                     | E4448A                                     | MY48250152               | TF        | 2014/02/03 * 12                    |
| SSCA-01                        | Search coil                      | LANGER                                      | RF-R 400-1                                 | 02-0634                  | TF        | Pre Check                          |
| SCH-01                         | Temperature and Humidity Chamber | Espec                                       | PL-1KT                                     | 14020837                 | TF        | 2014/04/15 * 12                    |
| SOS-09                         | Humidity Indicator               | A&D                                         | AD-5681                                    | 4061484                  | TF        | 2014/03/07 * 12                    |
| SFC-01                         | Microwave Counter                | Agilent                                     | 53151A                                     | US40511493               | TF        | 2014/04/01 * 12                    |
|                                |                                  |                                             |                                            |                          |           |                                    |
|                                |                                  |                                             |                                            |                          |           |                                    |

The expiration date of the calibration is the end of the expired month .  
 As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

CE: Conducted emission ,

RE: Radiated emission ,

TF: Test Fixture tests ,