



RADIO TEST REPORT

Test Report No.: 10334250S-C-R1

Applicant : NINTENDO CO., LTD.
Type of Equipment : Portable Game Machine with Wireless LAN
Model No. : KTR-001
FCC ID : BKEKTR001
Test regulation : FCC Part15 Subpart C: 2014
Test result : Complied

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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 10334250S-C. 10334250S-C is replaced with this report.

Date of test: June 12 to July 2, 2014

Tested by: 

Akio Hayashi
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Approved by : 

Toyokazu Imamura
Leader
Consumer Technology Division



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13-EM-F0429

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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. : KTR-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 22, 2014

2.2 Product description

Model: KTR-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 10334250S-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/FOX-KTR)
Antenna gain : 0.8dBi
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% (typeB, F)
Antenna type : Print pattern antenna
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 7. AC powerline conducted emission measurements	FCC 15.207	-	N/A	7.9dB Freq.: 1.79880MHz Detector: Quasi-Peak Phase: N Tabuchi's AC adaptor No.1, X'tal A	Complied
Electric field strength of Fundamental emission	ANSI C63.4:2009 13. Measurement of intentional radiators	FCC 15.225 (a)	Radiated	N/A	63.3dB Polarization: Vertical Nichicon's AC adaptor, X'tal A	Complied
Electric field strength of Spurious emission (within the 13.110-14.010MHz band)	ANSI C63.4:2009 13. Measurement of intentional radiators	FCC 15.225 (b)(c)	Radiated	N/A	44.2dB Polarization: Vertical Freq.: 13.567MHz Nichicon's AC adaptor, X'tal A Freq.: 13.553MHz Tabuchi's AC adaptor, X'tal B Freq.: 13.553MHz Nichicon'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 13. Measurement of intentional radiators	FCC 15.209 FCC 15.225 (d)	Radiated	N/A	10.1dB Freq.: 67.80MHz Polarization: Vertical Tabuchi's AC adaptor, X'tal A	Complied
20dB bandwidth	ANSI C63.4:2009 13. Measurement of intentional radiators	FCC 15.215 (c)	Radiated	N/A	-	-
Frequency tolerance	ANSI C63.4:2009 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 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 ^{*1} /SR ^{*2} (±)	No.2 SAC/SR (±)	No.3 SAC/SR (±)
Conducted emission (AC Mains) AMN/LISN	150kHz-30MHz	3.6 dB	3.6 dB	3.5 dB
Radiated emission (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 x 10⁻⁸.

Frequency (Extreme condition) Measurement uncertainty for this test was: (±) 7.9 x 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 Registration No.	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measuremen t distance
<input 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, NFC (Type A/B/F) Communication *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) (Carrier)	Radiated emission*1) (Below 30MHz)	Radiated emission*1) (Above 30MHz)
Tag type	NFC Type B Transmitting (Without IC Tag)	NFC Type B Communication (With IC Tag)	NFC Type B Communication (With IC Tag)	NFC Type B Communication (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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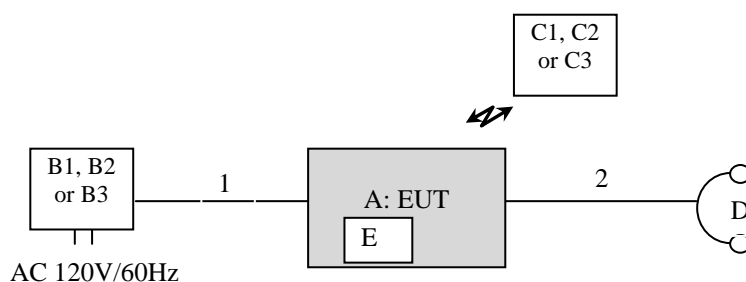
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4.2 Configuration and peripherals



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

*1) Conducted emission test (Only for 13.56MHz with terminated antenna port),
20dB Bandwidth and 99% Occupied Bandwidth, Frequency Tolerance: 10(X'tal A), 12(X'tal B),
Other tests: 2(X'tal A), 4(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
1	DC	1.9	Shielded	-
2	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 & 110kHz to 150kHz	90kHz to 110kHz	150kHz to 490kHz	490kHz to 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) 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 Antenna polarization	Carrier *2)	Spurious		Tag
			Below 30MHz	30MHz-1GHz	
EUT	Horizontal	Z	Z	X	With
	Vertical	Z	Z	X	with

*2) with spurious emissions near carrier frequency.

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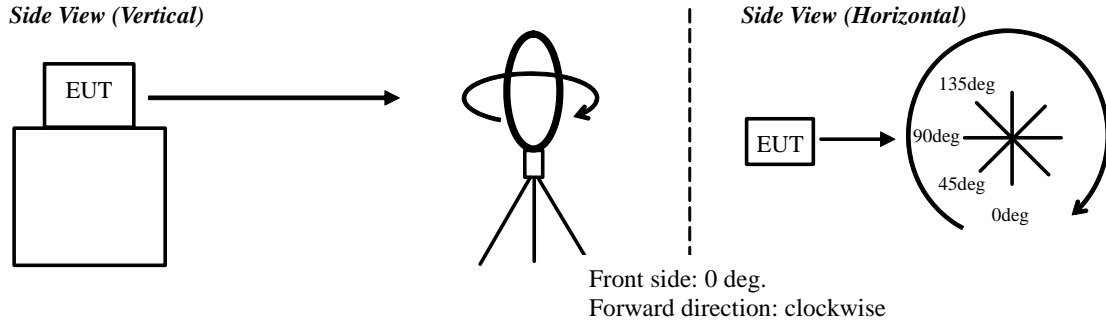
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6.5 Results

Summary of the test results : Pass

Refer to APPENDIX 1.

Figure 1. Direction of the Loop Antenna



Top View (Horizontal)

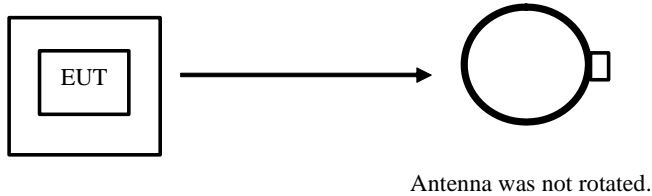
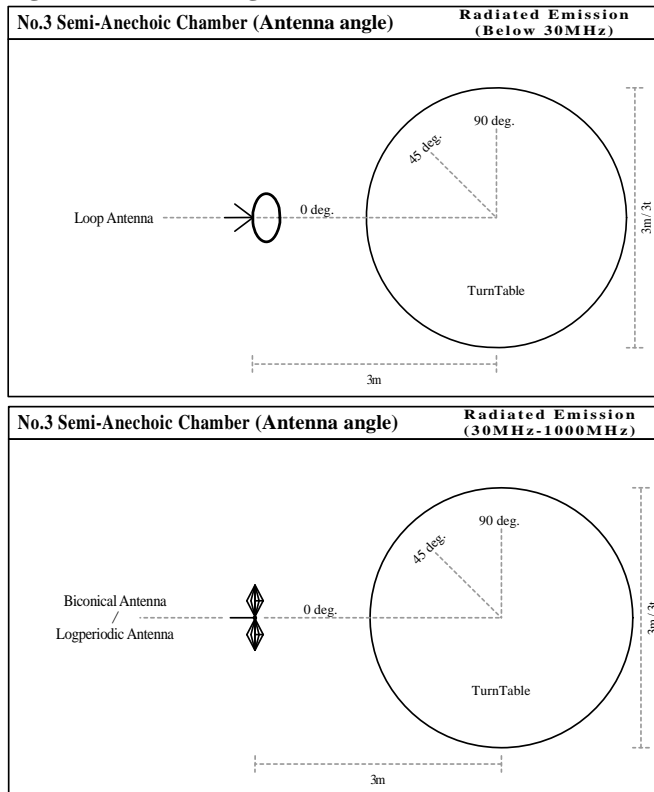


Figure 2. Antenna angle



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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

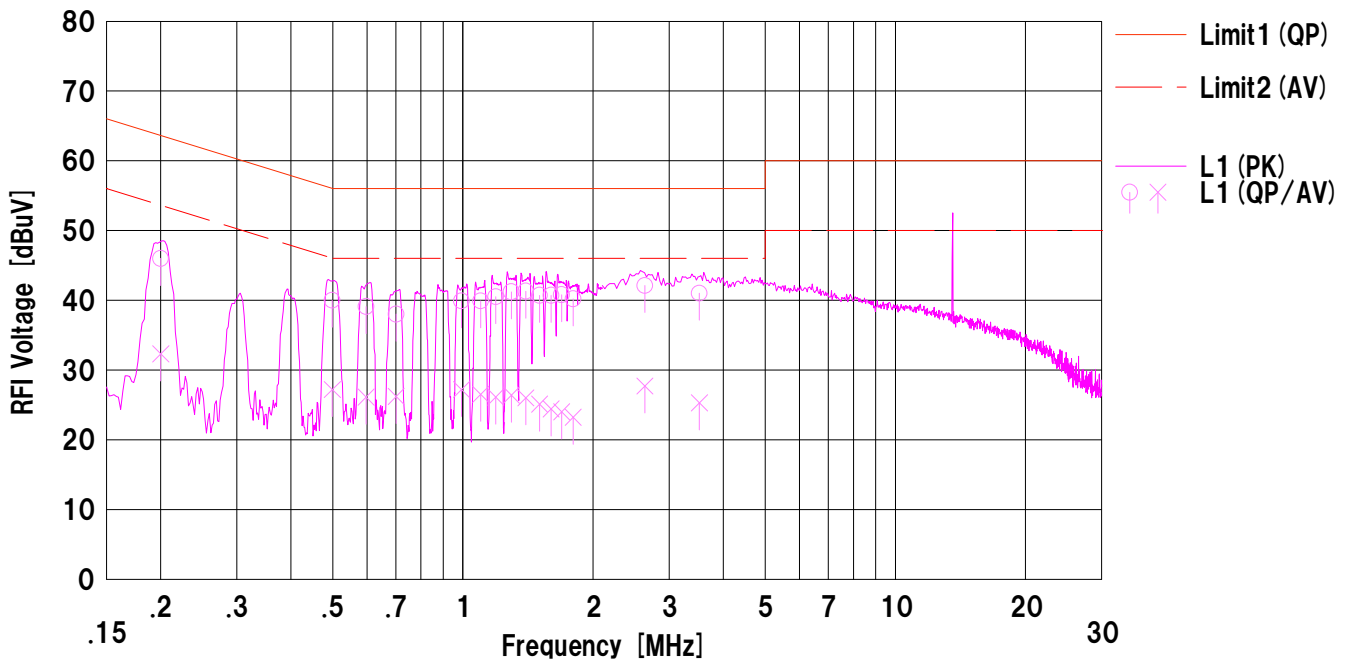
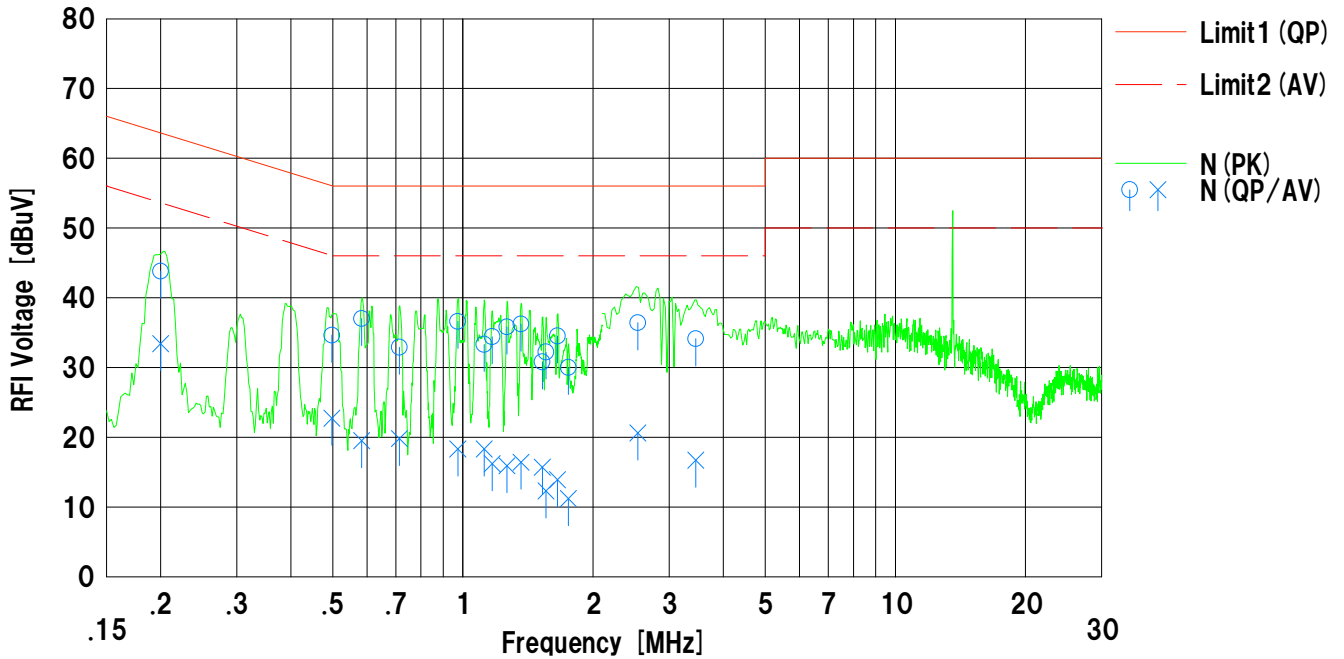
UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 2
 Remarks : (Mitsumi's AC adaptor No.1) , X'tal A

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi



DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 2
 Remarks : (Mitsumi's AC adaptor No.1) , X'tal A

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi

<< QP/AV DATA >>

No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.20000	31.0	20.6	12.8	43.8	33.4	63.6	53.6	19.8	20.2	N	
2	0.49780	21.8	9.9	12.8	34.6	22.7	56.0	46.0	21.4	23.3	N	
3	0.58350	24.2	6.7	12.8	37.0	19.5	56.0	46.0	19.0	26.5	N	
4	0.71300	20.1	7.0	12.8	32.9	19.8	56.0	46.0	23.1	26.2	N	
5	0.97340	23.7	5.4	12.9	36.6	18.3	56.0	46.0	19.4	27.7	N	
6	1.12050	20.4	5.4	12.9	33.3	18.3	56.0	46.0	22.7	27.7	N	
7	1.16840	21.5	3.3	12.9	34.4	16.2	56.0	46.0	21.6	29.8	N	
8	1.26480	22.9	3.0	12.9	35.8	15.9	56.0	46.0	20.2	30.1	N	
9	1.36300	23.3	3.5	12.9	36.2	16.4	56.0	46.0	19.8	29.6	N	
10	1.52660	17.9	2.8	12.9	30.8	15.7	56.0	46.0	25.2	30.3	N	
11	1.55580	19.2	-0.7	13.0	32.2	12.3	56.0	46.0	23.8	33.7	N	
12	1.65600	21.5	0.9	13.0	34.5	13.9	56.0	46.0	21.5	32.1	N	
13	1.75280	17.0	-1.8	13.0	30.0	11.2	56.0	46.0	26.0	34.8	N	
14	2.53750	23.4	7.6	13.0	36.4	20.6	56.0	46.0	19.6	25.4	N	
15	3.45700	21.0	3.6	13.1	34.1	16.7	56.0	46.0	21.9	29.3	N	
16	0.20020	33.2	19.5	12.8	46.0	32.3	63.6	53.6	17.6	21.3	L1	
17	0.49910	27.2	14.4	12.8	40.0	27.2	56.0	46.0	16.0	18.8	L1	
18	0.59760	26.3	13.3	12.8	39.1	26.1	56.0	46.0	16.9	19.9	L1	
19	0.70110	25.2	13.4	12.8	38.0	26.2	56.0	46.0	18.0	19.8	L1	
20	0.99310	27.0	14.3	12.9	39.9	27.2	56.0	46.0	16.1	18.8	L1	
21	1.09940	27.0	13.6	12.9	39.9	26.5	56.0	46.0	16.1	19.5	L1	
22	1.19170	27.6	13.2	12.9	40.5	26.1	56.0	46.0	15.5	19.9	L1	
23	1.29480	28.3	13.5	12.9	41.2	26.4	56.0	46.0	14.8	19.6	L1	
24	1.39780	28.4	13.1	12.9	41.3	26.0	56.0	46.0	14.7	20.0	L1	
25	1.50420	27.8	12.2	12.9	40.7	25.1	56.0	46.0	15.3	20.9	L1	
26	1.59950	27.7	11.4	13.0	40.7	24.4	56.0	46.0	15.3	21.6	L1	
27	1.69200	27.8	11.0	13.0	40.8	24.0	56.0	46.0	15.2	22.0	L1	
28	1.79880	27.2	10.2	13.0	40.2	23.2	56.0	46.0	15.8	22.8	L1	
29	2.63360	29.1	14.7	13.0	42.1	27.7	56.0	46.0	13.9	18.3	L1	
30	3.52440	27.9	12.2	13.1	41.0	25.3	56.0	46.0	15.0	20.7	L1	

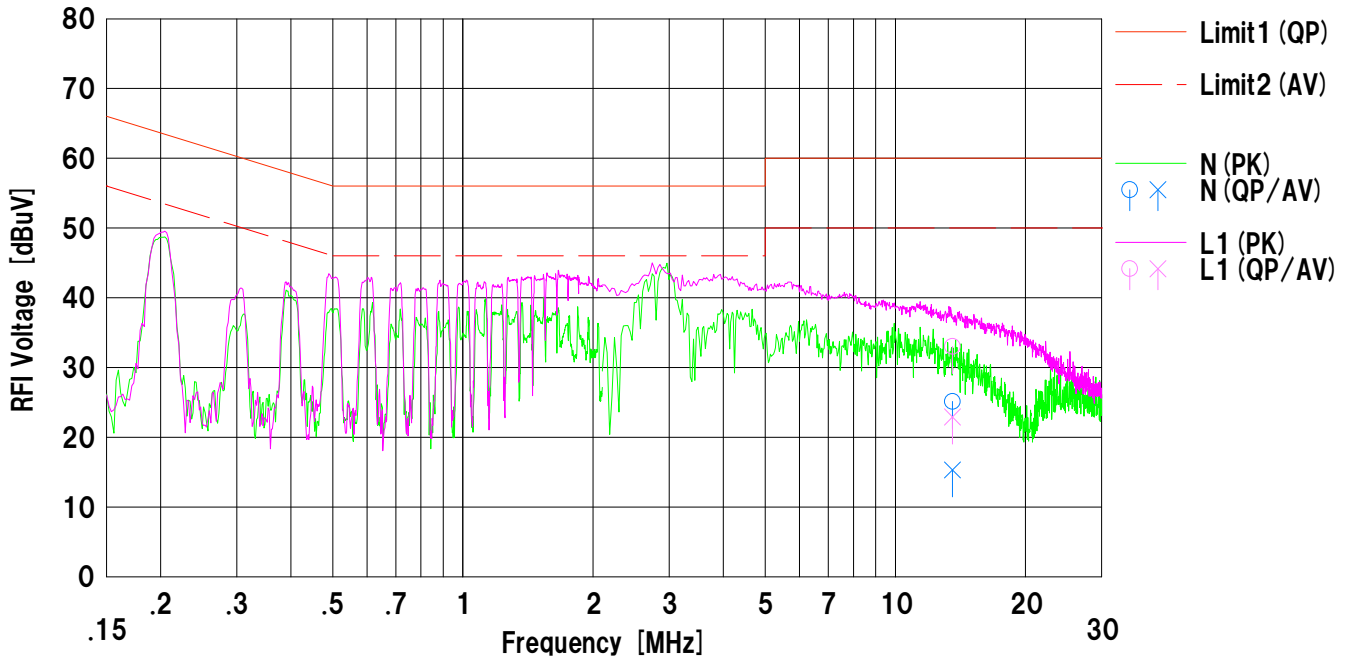
DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD	Mode : NFC type B transmitting
Kind of EUT : Refer to section 2.2	Order No. : 10334250S
Model No. : KTR-001	Power : AC 120V / 60Hz
Serial No. : 10	Temp./Humi. : 25deg.C / 53%RH
Remarks : (Mitsumi's AC adaptor No.1) , X'tal A, Antenna Terminated	

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

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	13.56000	10.6	0.8	14.5	25.1	15.3	60.0	50.0	34.9	34.7	N	
2	13.56000	18.5	8.4	14.5	33.0	22.9	60.0	50.0	27.0	27.1	L1	

DATA OF CONDUCTED EMISSION TEST

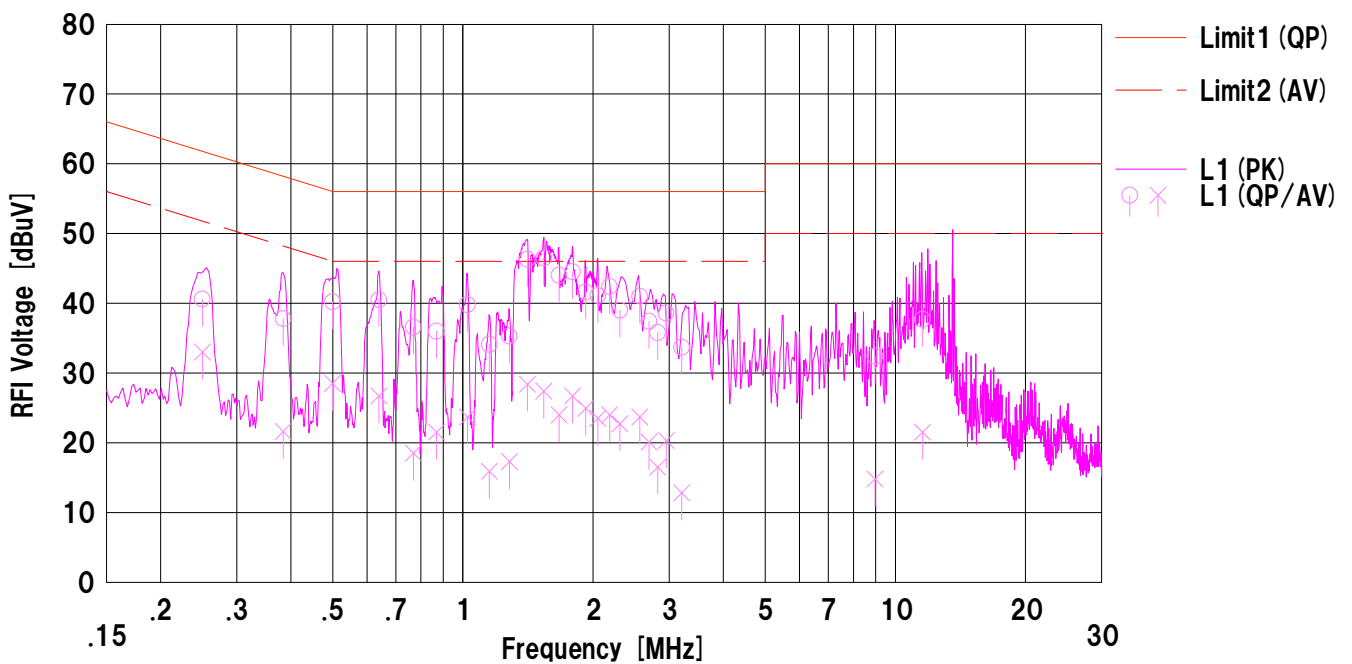
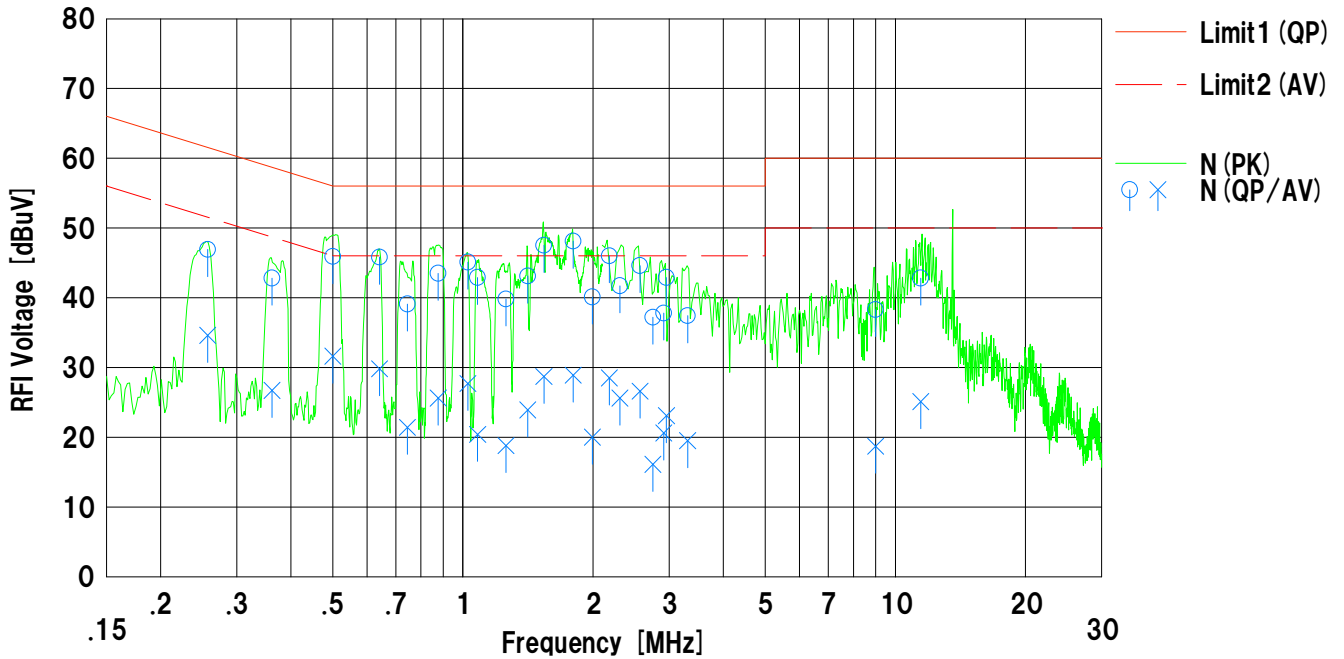
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 2
 Remarks : (Tabuchi's AC adaptor No.1), X'tal A

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi



DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 2
 Remarks : (Tabuchi's AC adaptor No.1), X'tal A

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi

<< QP/AV DATA >>

No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.25710	34.1	21.8	12.8	46.9	34.6	61.5	51.5	14.6	16.9	N	
2	0.36180	30.0	13.9	12.8	42.8	26.7	58.6	48.6	15.8	21.9	N	
3	0.50030	33.1	18.8	12.8	45.9	31.6	56.0	46.0	10.1	14.4	N	
4	0.64190	33.0	17.0	12.8	45.8	29.8	56.0	46.0	10.2	16.2	N	
5	0.74450	26.3	8.6	12.8	39.1	21.4	56.0	46.0	16.9	24.6	N	
6	0.87700	30.7	12.8	12.8	43.5	25.6	56.0	46.0	12.5	20.4	N	
7	1.02670	32.2	14.8	12.9	45.1	27.7	56.0	46.0	10.9	18.3	N	
8	1.08200	30.0	7.5	12.9	42.9	20.4	56.0	46.0	13.1	25.6	N	
9	1.25740	26.9	5.9	12.9	39.8	18.8	56.0	46.0	16.2	27.2	N	
10	1.41360	30.2	11.0	12.9	43.1	23.9	56.0	46.0	12.9	22.1	N	
11	1.53940	34.5	15.7	13.0	47.5	28.7	56.0	46.0	8.5	17.3	N	
12	1.79880	35.1	15.9	13.0	48.1	28.9	56.0	46.0	7.9	17.1	N	
13	1.99180	27.1	7.0	13.0	40.1	20.0	56.0	46.0	15.9	26.0	N	
14	2.18240	33.0	15.5	13.0	46.0	28.5	56.0	46.0	10.0	17.5	N	
15	2.30700	28.7	12.6	13.0	41.7	25.6	56.0	46.0	14.3	20.4	N	
16	2.56686	31.6	13.6	13.0	44.6	26.6	56.0	46.0	11.4	19.4	N	
17	2.75020	24.1	3.0	13.1	37.2	16.1	56.0	46.0	18.8	29.9	N	
18	2.91380	24.7	7.5	13.1	37.8	20.6	56.0	46.0	18.2	25.4	N	
19	2.95560	29.8	10.0	13.1	42.9	23.1	56.0	46.0	13.1	22.9	N	
20	3.30820	24.3	6.4	13.1	37.4	19.5	56.0	46.0	18.6	26.5	N	
21	8.99880	24.4	4.8	13.9	38.3	18.7	60.0	50.0	21.7	31.3	N	
22	11.44400	28.6	10.9	14.2	42.8	25.1	60.0	50.0	17.2	24.9	N	
23	0.24980	27.8	20.2	12.8	40.6	33.0	61.7	51.7	21.1	18.7	L1	
24	0.38440	25.0	8.8	12.8	37.8	21.6	58.1	48.1	20.3	26.5	L1	
25	0.49980	27.4	15.7	12.8	40.2	28.5	56.0	46.0	15.8	17.5	L1	
26	0.63940	27.7	13.9	12.8	40.5	26.7	56.0	46.0	15.5	19.3	L1	
27	0.76810	23.8	5.7	12.8	36.6	18.5	56.0	46.0	19.4	27.5	L1	
28	0.86900	23.2	8.7	12.8	36.0	21.5	56.0	46.0	20.0	24.5	L1	
29	1.02450	26.9	10.8	12.9	39.8	23.7	56.0	46.0	16.2	22.3	L1	
30	1.15080	21.2	3.0	12.9	34.1	15.9	56.0	46.0	21.9	30.1	L1	
31	1.28120	22.4	4.4	12.9	35.3	17.3	56.0	46.0	20.7	28.7	L1	
32	1.40900	33.4	15.5	12.9	46.3	28.4	56.0	46.0	9.7	17.6	L1	
33	1.53900	33.5	14.4	13.0	46.5	27.4	56.0	46.0	9.5	18.6	L1	
34	1.66900	31.0	11.0	13.0	44.0	24.0	56.0	46.0	12.0	22.0	L1	
35	1.79294	31.5	13.7	13.0	44.5	26.7	56.0	46.0	11.5	19.3	L1	
36	1.92360	28.6	11.9	13.0	41.6	24.9	56.0	46.0	14.4	21.1	L1	
37	2.05200	28.1	10.5	13.0	41.1	23.5	56.0	46.0	14.9	22.5	L1	
38	2.18400	29.4	11.0	13.0	42.4	24.0	56.0	46.0	13.6	22.0	L1	
39	2.30640	26.0	9.7	13.0	39.0	22.7	56.0	46.0	17.0	23.3	L1	
40	2.56440	28.0	10.7	13.0	41.0	23.7	56.0	46.0	15.0	22.3	L1	
41	2.69200	24.4	7.1	13.0	37.4	20.1	56.0	46.0	18.6	25.9	L1	
42	2.82290	22.7	3.4	13.1	35.8	16.5	56.0	46.0	20.2	29.5	L1	
43	2.95270	25.5	7.2	13.1	38.6	20.3	56.0	46.0	17.4	25.7	L1	
44	3.20715	20.6	-0.3	13.1	33.7	12.8	56.0	46.0	22.3	33.2	L1	
45	8.98000	18.5	0.9	13.9	32.4	14.8	60.0	50.0	27.6	35.2	L1	
46	11.55600	23.5	7.3	14.2	37.7	21.5	60.0	50.0	22.3	28.5	L1	

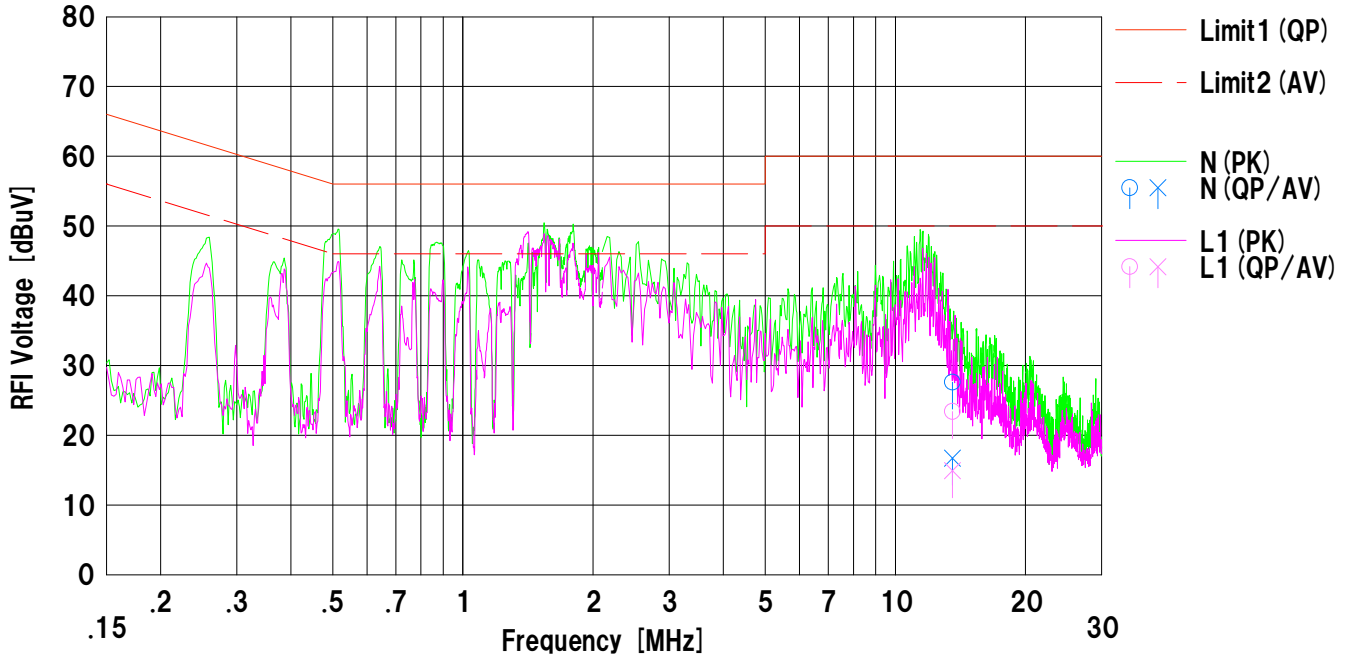
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD Kind of EUT : Refer to section 2.2 Model No. : KTR-001 Serial No. : 10 Remarks : (Tabuchi's AC adaptor No.1) , X'tal A, Antenna Terminated	Mode : NFC type B transmitting Order No. : 10334250S Power : AC 120V / 60Hz Temp./Humi. : 25deg.C / 53%RH
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Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	13.56000	13.1	2.2	14.5	27.6	16.7	60.0	50.0	32.4	33.3	N	
2	13.56000	8.9	0.4	14.5	23.4	14.9	60.0	50.0	36.6	35.1	L1	

DATA OF CONDUCTED EMISSION TEST

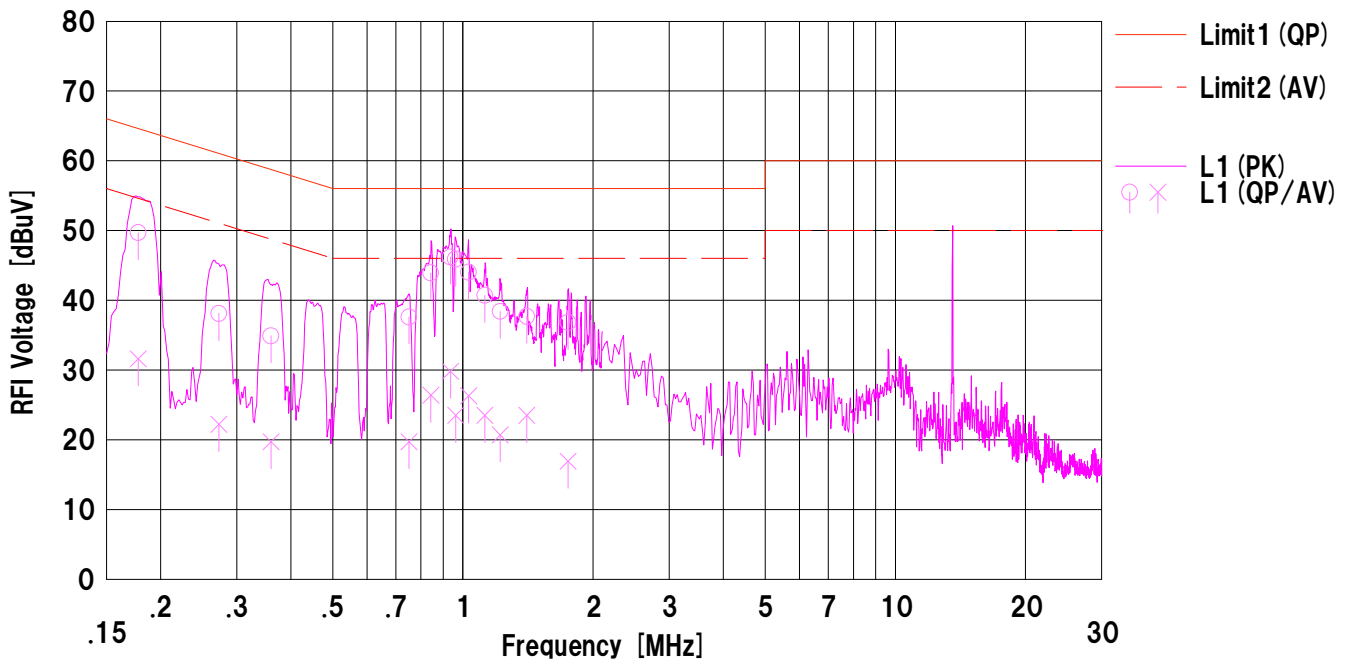
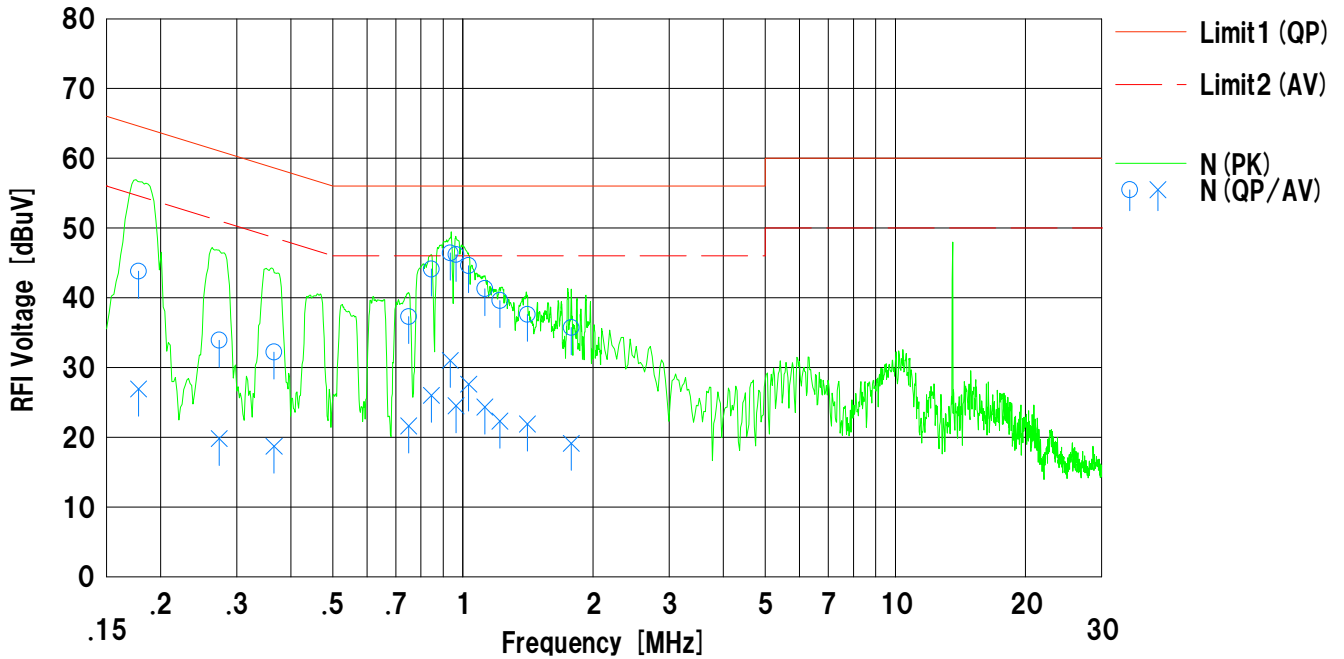
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 2
 Remarks : (Nichicon's AC adaptor No.1) , X'tal A

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi



DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 2
 Remarks : (Nichicon's AC adaptor No.1) , X'tal A

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi

<< QP/AV DATA >>

No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.17780	31.0	14.1	12.8	43.8	26.9	64.5	54.5	20.7	27.6	N	
2	0.27320	21.1	7.0	12.8	33.9	19.8	61.0	51.0	27.1	31.2	N	
3	0.36600	19.4	5.9	12.8	32.2	18.7	58.5	48.5	26.3	29.8	N	
4	0.74950	24.5	8.8	12.8	37.3	21.6	56.0	46.0	18.7	24.4	N	
5	0.84498	31.3	13.2	12.8	44.1	26.0	56.0	46.0	11.9	20.0	N	
6	0.93540	33.6	18.2	12.8	46.4	31.0	56.0	46.0	9.6	15.0	N	
7	0.96430	33.3	11.6	12.9	46.2	24.5	56.0	46.0	9.8	21.5	N	
8	1.03090	31.7	14.7	12.9	44.6	27.6	56.0	46.0	11.4	18.4	N	
9	1.12440	28.4	11.4	12.9	41.3	24.3	56.0	46.0	14.7	21.7	N	
10	1.21890	26.7	9.4	12.9	39.6	22.3	56.0	46.0	16.4	23.7	N	
11	1.40880	24.7	9.0	12.9	37.6	21.9	56.0	46.0	18.4	24.1	N	
12	1.78240	22.7	6.1	13.0	35.7	19.1	56.0	46.0	20.3	26.9	N	
13	0.17760	36.9	18.8	12.8	49.7	31.6	64.5	54.5	14.8	22.9	L1	
14	0.27271	25.3	9.4	12.8	38.1	22.2	61.0	51.0	22.9	28.8	L1	
15	0.35990	22.1	6.9	12.8	34.9	19.7	58.7	48.7	23.8	29.0	L1	
16	0.75060	24.8	6.9	12.8	37.6	19.7	56.0	46.0	18.4	26.3	L1	
17	0.84363	31.1	13.6	12.8	43.9	26.4	56.0	46.0	12.1	19.6	L1	
18	0.93605	33.4	17.0	12.8	46.2	29.8	56.0	46.0	9.8	16.2	L1	
19	0.96255	33.0	10.6	12.9	45.9	23.5	56.0	46.0	10.1	22.5	L1	
20	1.03110	31.1	13.4	12.9	44.0	26.3	56.0	46.0	12.0	19.7	L1	
21	1.12430	27.8	10.6	12.9	40.7	23.5	56.0	46.0	15.3	22.5	L1	
22	1.21995	25.5	7.8	12.9	38.4	20.7	56.0	46.0	17.6	25.3	L1	
23	1.40518	24.8	10.6	12.9	37.7	23.5	56.0	46.0	18.3	22.5	L1	
24	1.75200	23.8	3.9	13.0	36.8	16.9	56.0	46.0	19.2	29.1	L1	

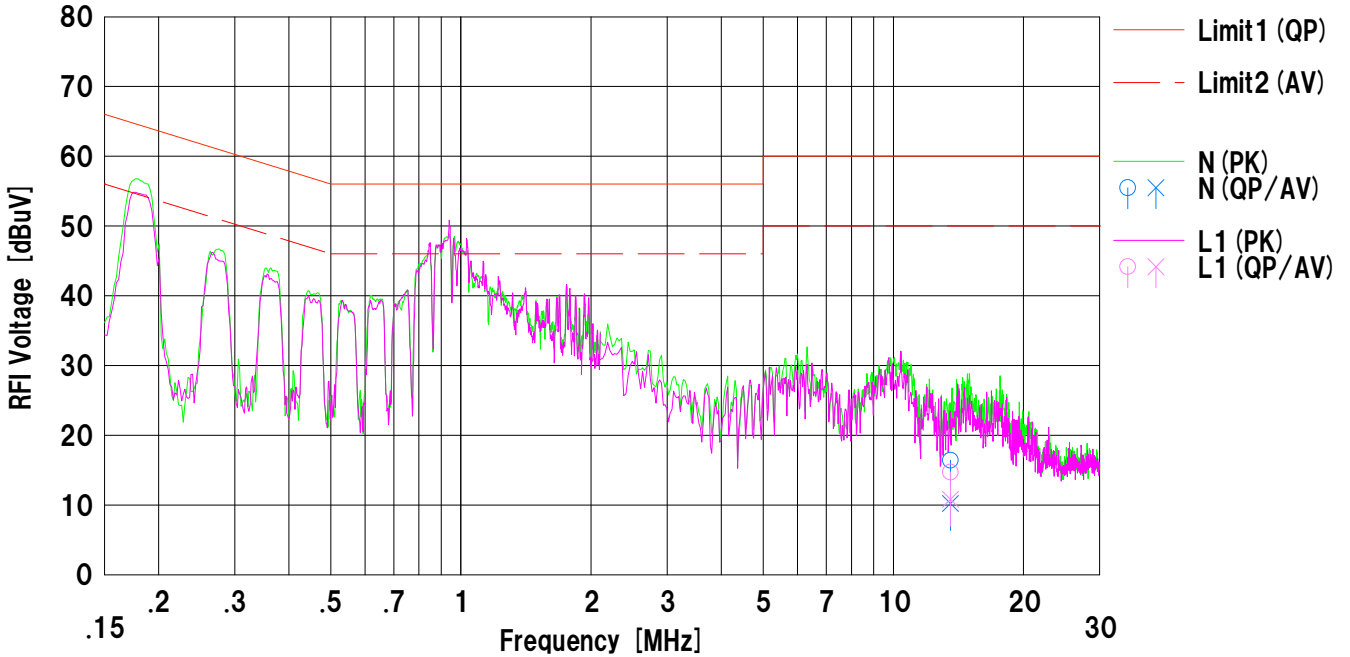
DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD Kind of EUT : Refer to section 2.2 Model No. : KTR-001 Serial No. : 10 Remarks : (Nichicon's AC adaptor No.1) , X'tal A, Antenna Terminated	Mode : NFC type B transmitting Order No. : 10334250S Power : AC 120V / 60Hz Temp./Humi. : 25deg.C / 53%RH
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Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	13.56000	1.9	-4.3	14.5	16.4	10.2	60.0	50.0	43.6	39.8	N	
2	13.56000	0.2	-3.7	14.5	14.7	10.8	60.0	50.0	45.3	39.2	L1	

DATA OF CONDUCTED EMISSION TEST

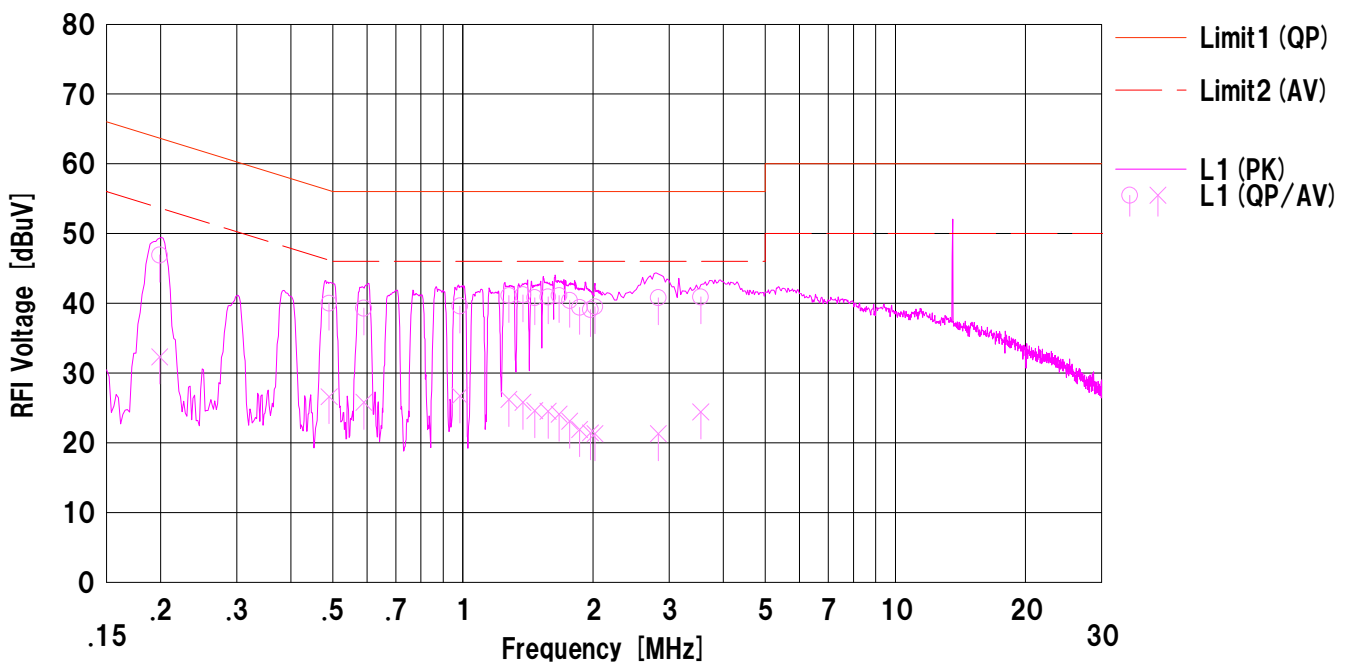
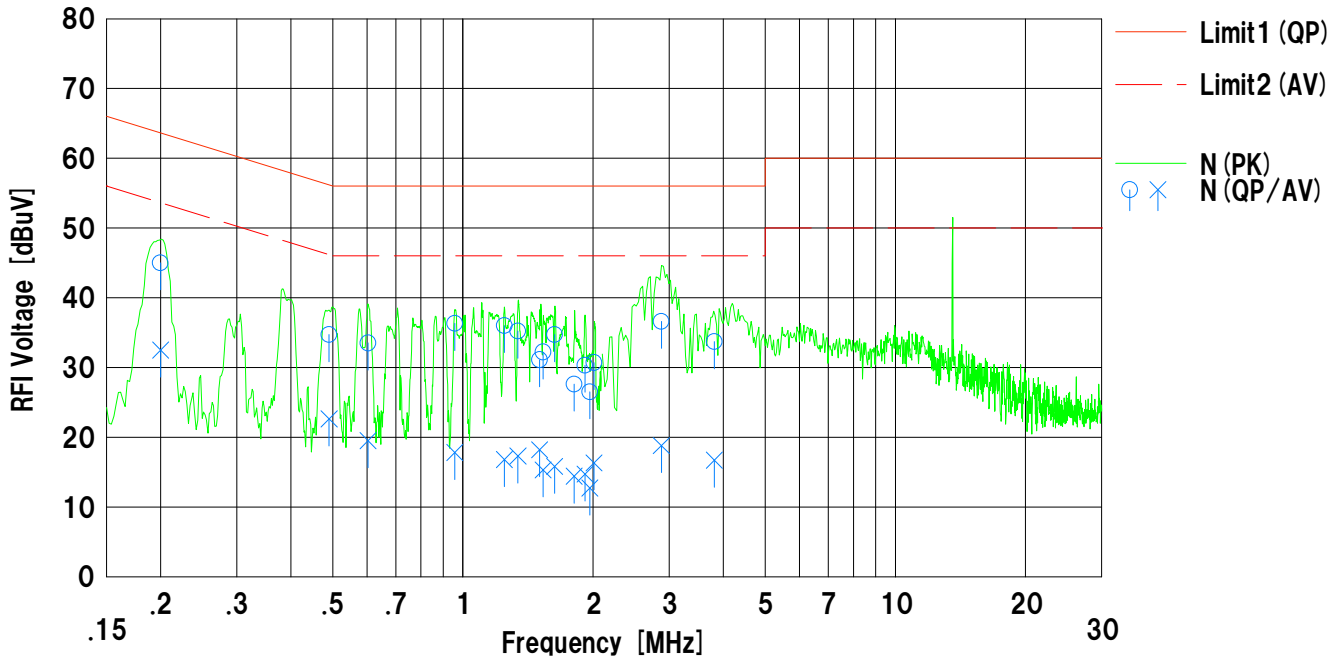
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 4
 Remarks : (Mitsumi's AC adaptor No.1) , X'tal B

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi



DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 4
 Remarks : (Mitsumi's AC adaptor No.1) , X'tal B

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi

<< QP/AV DATA >>

No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.19980	32.2	19.7	12.8	45.0	32.5	63.6	53.6	18.6	21.1	N	
2	0.49052	21.9	9.8	12.8	34.7	22.6	56.1	46.1	21.4	23.5	N	
3	0.60370	20.7	6.7	12.8	33.5	19.5	56.0	46.0	22.5	26.5	N	
4	0.95842	23.4	4.9	12.9	36.3	17.8	56.0	46.0	19.7	28.2	N	
5	1.24690	23.1	3.9	12.9	36.0	16.8	56.0	46.0	20.0	29.2	N	
6	1.34061	22.3	4.4	12.9	35.2	17.3	56.0	46.0	20.8	28.7	N	
7	1.50450	18.2	5.3	12.9	31.1	18.2	56.0	46.0	24.9	27.8	N	
8	1.53270	19.3	2.4	12.9	32.2	15.3	56.0	46.0	23.8	30.7	N	
9	1.62870	21.7	2.8	13.0	34.7	15.8	56.0	46.0	21.3	30.2	N	
10	1.80713	14.6	1.4	13.0	27.6	14.4	56.0	46.0	28.4	31.6	N	
11	1.91530	17.3	1.7	13.0	30.3	14.7	56.0	46.0	25.7	31.3	N	
12	1.96641	13.5	-0.3	13.0	26.5	12.7	56.0	46.0	29.5	33.3	N	
13	2.00916	17.7	3.3	13.0	30.7	16.3	56.0	46.0	25.3	29.7	N	
14	2.87740	23.5	5.7	13.1	36.6	18.8	56.0	46.0	19.4	27.2	N	
15	3.81400	20.6	3.6	13.1	33.7	16.7	56.0	46.0	22.3	29.3	N	
16	0.19900	34.1	19.5	12.8	46.9	32.3	63.6	53.6	16.7	21.3	L1	
17	0.49038	27.2	13.8	12.8	40.0	26.6	56.1	46.1	16.1	19.5	L1	
18	0.99009	26.5	13.0	12.8	39.3	25.8	56.0	46.0	16.7	20.2	L1	
19	0.98481	26.7	13.8	12.9	39.6	26.7	56.0	46.0	16.4	19.3	L1	
20	1.27850	28.2	13.3	12.9	41.1	26.2	56.0	46.0	14.9	19.8	L1	
21	1.37610	28.3	12.9	12.9	41.2	25.8	56.0	46.0	14.8	20.2	L1	
22	1.46553	27.9	11.7	12.9	40.8	24.6	56.0	46.0	15.2	21.4	L1	
23	1.57448	27.9	11.5	13.0	40.9	24.5	56.0	46.0	15.1	21.5	L1	
24	1.66938	28.1	11.1	13.0	41.1	24.1	56.0	46.0	14.9	21.9	L1	
25	1.76653	27.4	10.1	13.0	40.4	23.1	56.0	46.0	15.6	22.9	L1	
26	1.86287	26.4	8.9	13.0	39.4	21.9	56.0	46.0	16.6	24.1	L1	
27	1.97207	26.1	8.4	13.0	39.1	21.4	56.0	46.0	16.9	24.6	L1	
28	2.02040	26.5	8.3	13.0	39.5	21.3	56.0	46.0	16.5	24.7	L1	
29	2.83020	27.7	8.2	13.1	40.8	21.3	56.0	46.0	15.2	24.7	L1	
30	3.54800	27.8	11.3	13.1	40.9	24.4	56.0	46.0	15.1	21.6	L1	

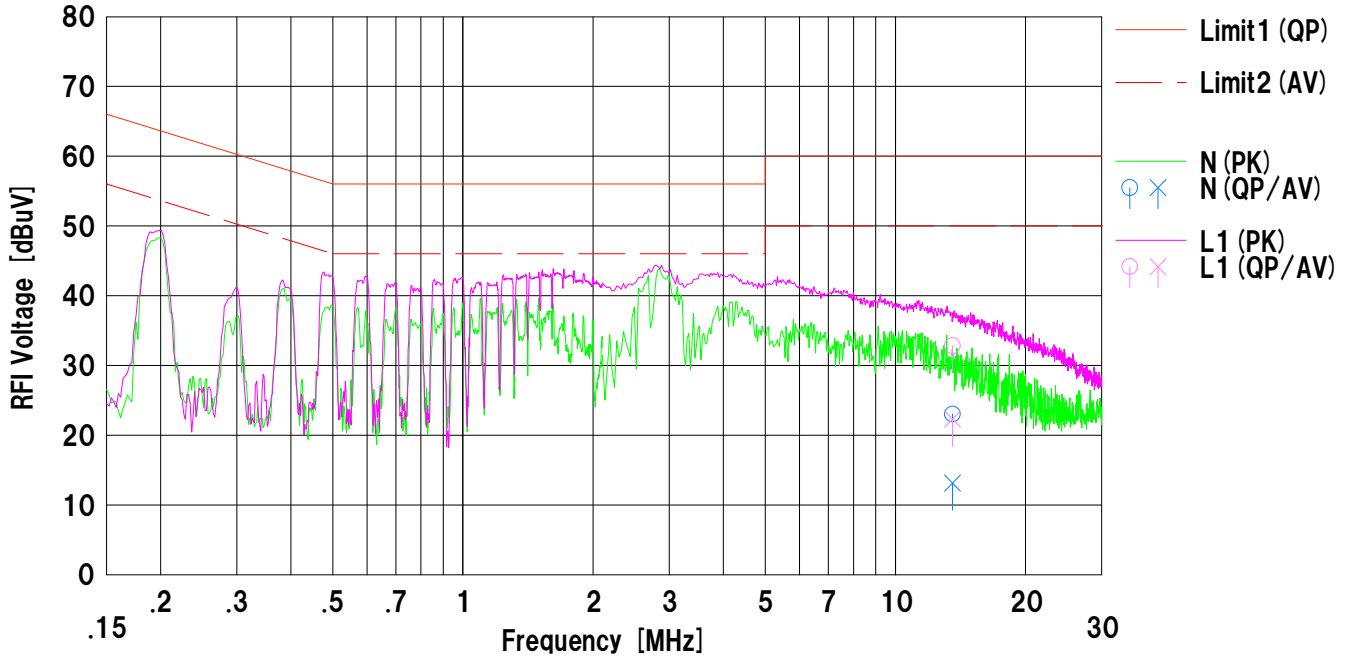
DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD	Mode : NFC type B transmitting
Kind of EUT : Refer to section 2.2	Order No. : 10334250S
Model No. : KTR-001	Power : AC 120V / 60Hz
Serial No. : 12	Temp./Humi. : 25deg.C / 53%RH
Remarks : (Mitsumi's AC adaptor No.1) , X'tal B. Antenna Terminated	

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

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	13.56000	8.5	-1.4	14.5	23.0	13.1	60.0	50.0	37.0	36.9	N	
2	13.56000	18.3	7.8	14.5	32.8	22.3	60.0	50.0	27.2	27.7	L1	

DATA OF CONDUCTED EMISSION TEST

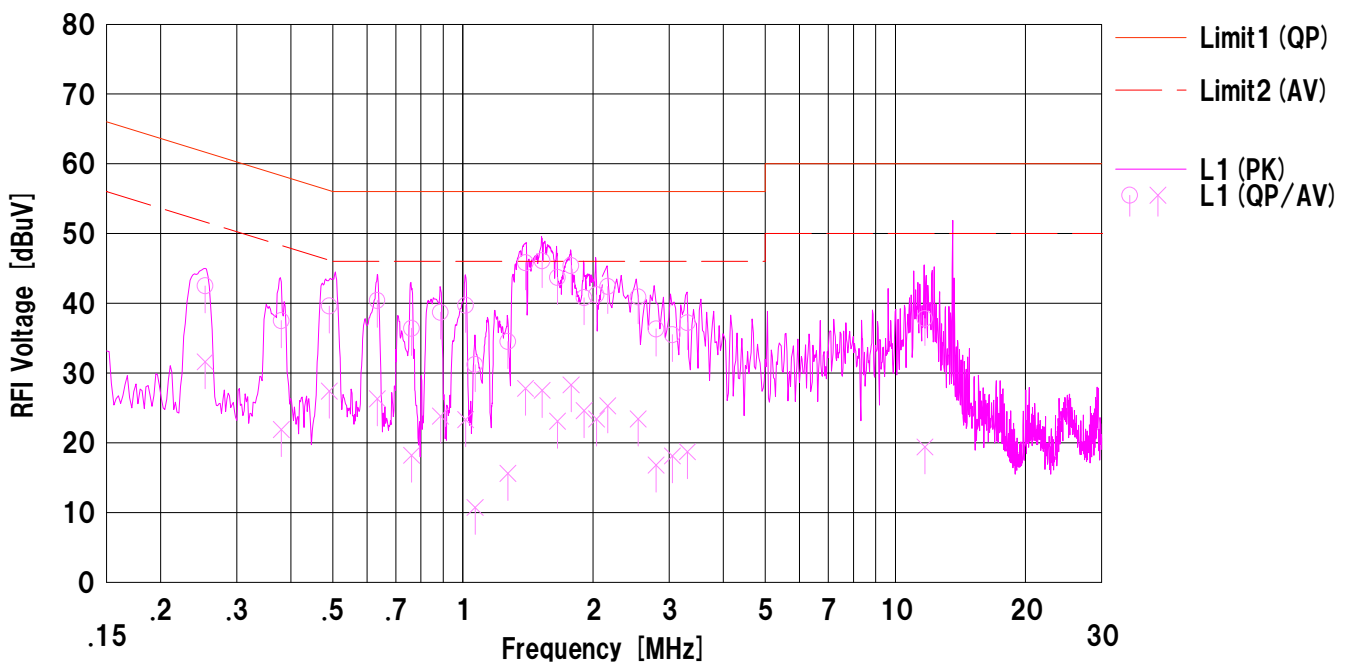
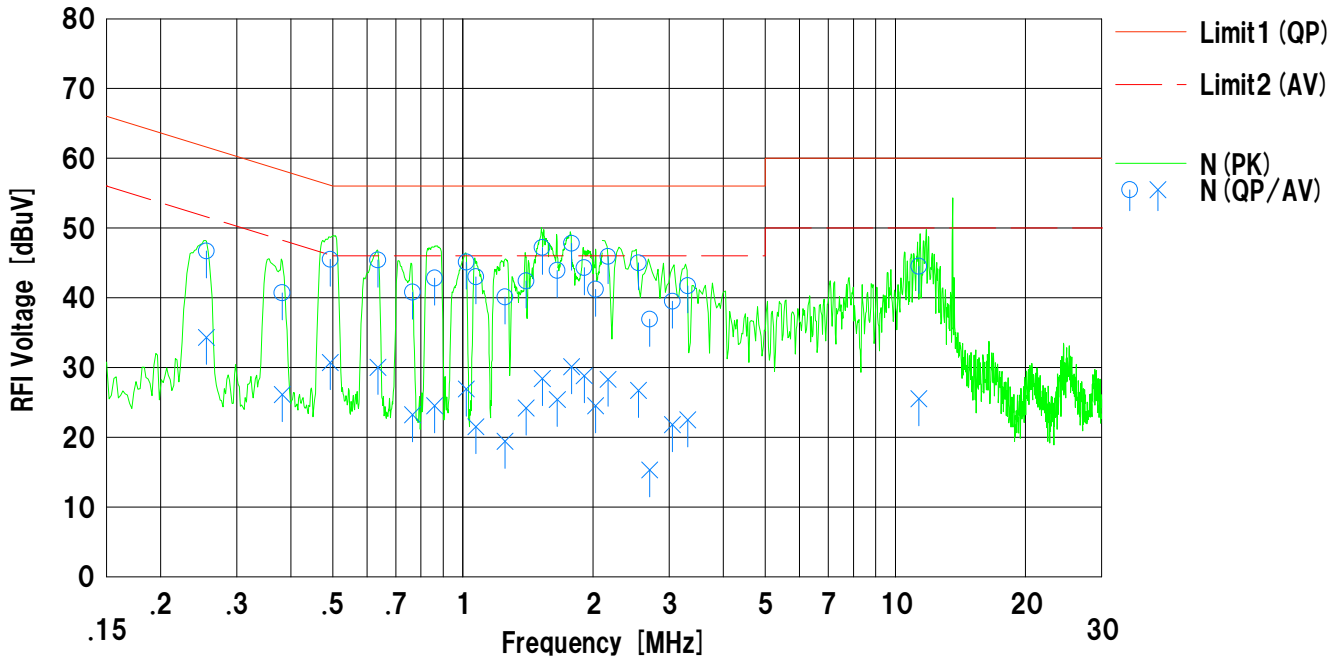
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 4
 Remarks : (Tabuchi's AC adaptor No.1) , X'tal B

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi



DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 4
 Remarks : (Tabuchi's AC adaptor No.1), X'tal B

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi

<< QP/AV DATA >>

No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.25500	33.9	21.5	12.8	46.7	34.3	61.5	51.5	14.8	17.2	N	
2	0.38210	27.9	13.3	12.8	40.7	26.1	58.2	48.2	17.5	22.1	N	
3	0.49370	32.7	17.9	12.8	45.5	30.7	56.1	46.1	10.6	15.4	N	
4	0.63594	32.6	17.2	12.8	45.4	30.0	56.0	46.0	10.6	16.0	N	
5	0.76413	28.0	10.4	12.8	40.8	23.2	56.0	46.0	15.2	22.8	N	
6	0.86010	30.0	11.7	12.8	42.8	24.5	56.0	46.0	13.2	21.5	N	
7	1.01900	32.2	14.0	12.9	45.1	26.9	56.0	46.0	10.9	19.1	N	
8	1.07170	30.1	8.6	12.9	43.0	21.5	56.0	46.0	13.0	24.5	N	
9	1.25099	27.2	6.5	12.9	40.1	19.4	56.0	46.0	15.9	26.6	N	
10	1.39985	29.5	11.3	12.9	42.4	24.2	56.0	46.0	13.6	21.8	N	
11	1.52695	34.3	15.5	12.9	47.2	28.4	56.0	46.0	8.8	17.6	N	
12	1.65300	30.9	12.4	13.0	43.9	25.4	56.0	46.0	12.1	20.6	N	
13	1.78480	34.8	17.1	13.0	47.8	30.1	56.0	46.0	8.2	15.9	N	
14	1.90880	31.3	15.8	13.0	44.3	28.8	56.0	46.0	11.7	17.2	N	
15	2.02560	28.2	11.5	13.0	41.2	24.5	56.0	46.0	14.8	21.5	N	
16	2.16440	32.9	15.3	13.0	45.9	28.3	56.0	46.0	10.1	17.7	N	
17	2.54650	32.0	13.7	13.0	45.0	26.7	56.0	46.0	11.0	19.3	N	
18	2.70260	23.9	2.3	13.0	36.9	15.3	56.0	46.0	19.1	30.7	N	
19	3.05280	26.4	8.7	13.1	39.5	21.8	56.0	46.0	16.5	24.2	N	
20	3.31060	28.6	9.4	13.1	41.7	22.5	56.0	46.0	14.3	23.5	N	
21	11.34100	30.3	11.3	14.2	44.5	25.5	60.0	50.0	15.5	24.5	N	
22	0.25370	29.7	18.8	12.8	42.5	31.6	61.6	51.6	19.1	20.0	L1	
23	0.38030	24.7	9.1	12.8	37.5	21.9	58.2	48.2	20.7	26.3	L1	
24	0.49088	26.8	14.6	12.8	39.6	27.4	56.1	46.1	16.5	18.7	L1	
25	0.63375	27.6	13.5	12.8	40.4	26.3	56.0	46.0	15.6	19.7	L1	
26	0.76070	23.6	5.4	12.8	36.4	18.2	56.0	46.0	19.6	27.8	L1	
27	0.88760	25.9	11.0	12.8	38.7	23.8	56.0	46.0	17.3	22.2	L1	
28	1.01520	26.8	10.4	12.9	39.7	23.3	56.0	46.0	16.3	22.7	L1	
29	1.06680	18.3	-2.2	12.9	31.2	10.7	56.0	46.0	24.8	35.3	L1	
30	1.27080	21.6	2.7	12.9	34.5	15.6	56.0	46.0	21.5	30.4	L1	
31	1.39635	32.9	14.9	12.9	45.8	27.8	56.0	46.0	10.2	18.2	L1	
32	1.52425	33.2	14.6	12.9	46.1	27.5	56.0	46.0	9.9	18.5	L1	
33	1.65480	30.7	10.1	13.0	43.7	23.1	56.0	46.0	12.3	22.9	L1	
34	1.77960	32.4	15.3	13.0	45.4	28.3	56.0	46.0	10.6	17.7	L1	
35	1.90680	27.8	11.6	13.0	40.8	24.6	56.0	46.0	15.2	21.4	L1	
36	2.03604	28.2	10.4	13.0	41.2	23.4	56.0	46.0	14.8	22.6	L1	
37	2.16370	29.4	12.3	13.0	42.4	25.3	56.0	46.0	13.6	20.7	L1	
38	2.54370	27.9	10.4	13.0	40.9	23.4	56.0	46.0	15.1	22.6	L1	
39	2.79820	23.2	3.7	13.1	36.3	16.8	56.0	46.0	19.7	29.2	L1	
40	3.05060	22.4	5.0	13.1	35.5	18.1	56.0	46.0	20.5	27.9	L1	
41	3.30720	24.1	5.6	13.1	37.2	18.7	56.0	46.0	18.8	27.3	L1	
42	11.70220	23.6	5.2	14.2	37.8	19.4	60.0	50.0	22.2	30.6	L1	

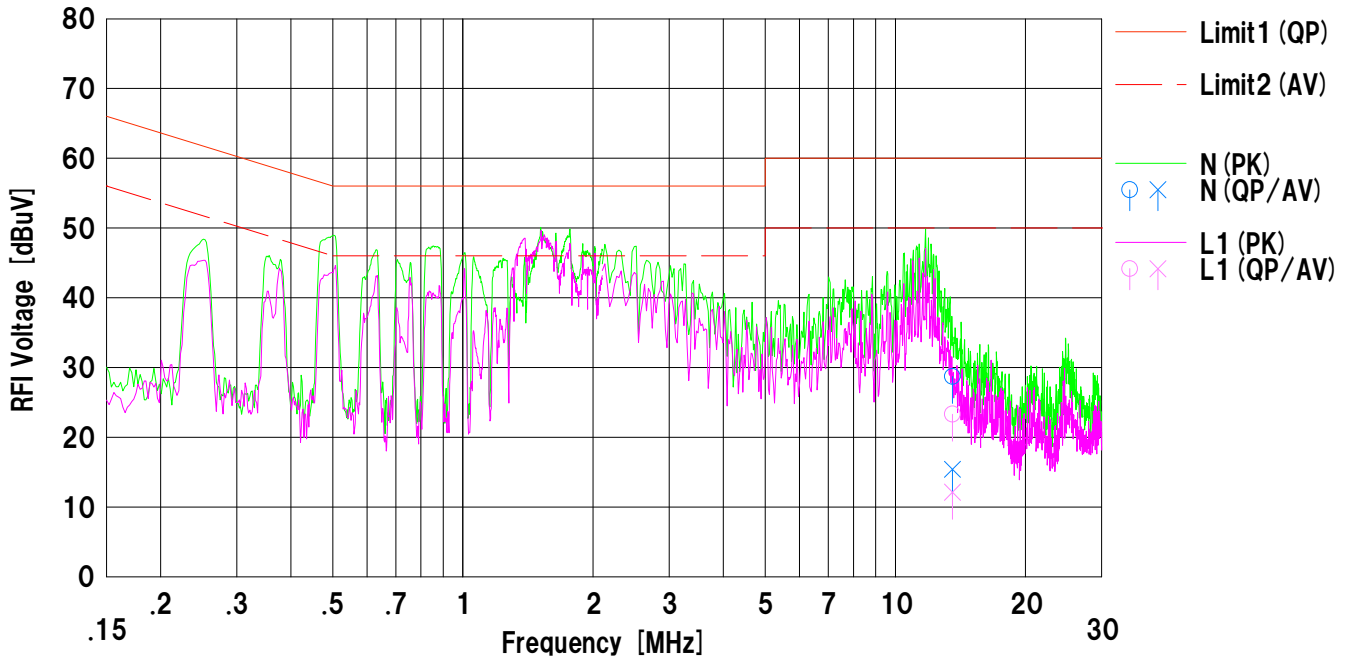
DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD	Mode : NFC type B transmitting
Kind of EUT : Refer to section 2.2	Order No. : 10334250S
Model No. : KTR-001	Power : AC 120V / 60Hz
Serial No. : 12	Temp./Humi. : 25deg.C / 53%RH
Remarks : (Tabuchi's AC adaptor No.1) , X'tal B, Antenna Terminated	

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

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	13.56000	14.2	0.9	14.5	28.7	15.4	60.0	50.0	31.3	34.6	N	
2	13.56000	8.8	-2.4	14.5	23.3	12.1	60.0	50.0	36.7	37.9	L1	

DATA OF CONDUCTED EMISSION TEST

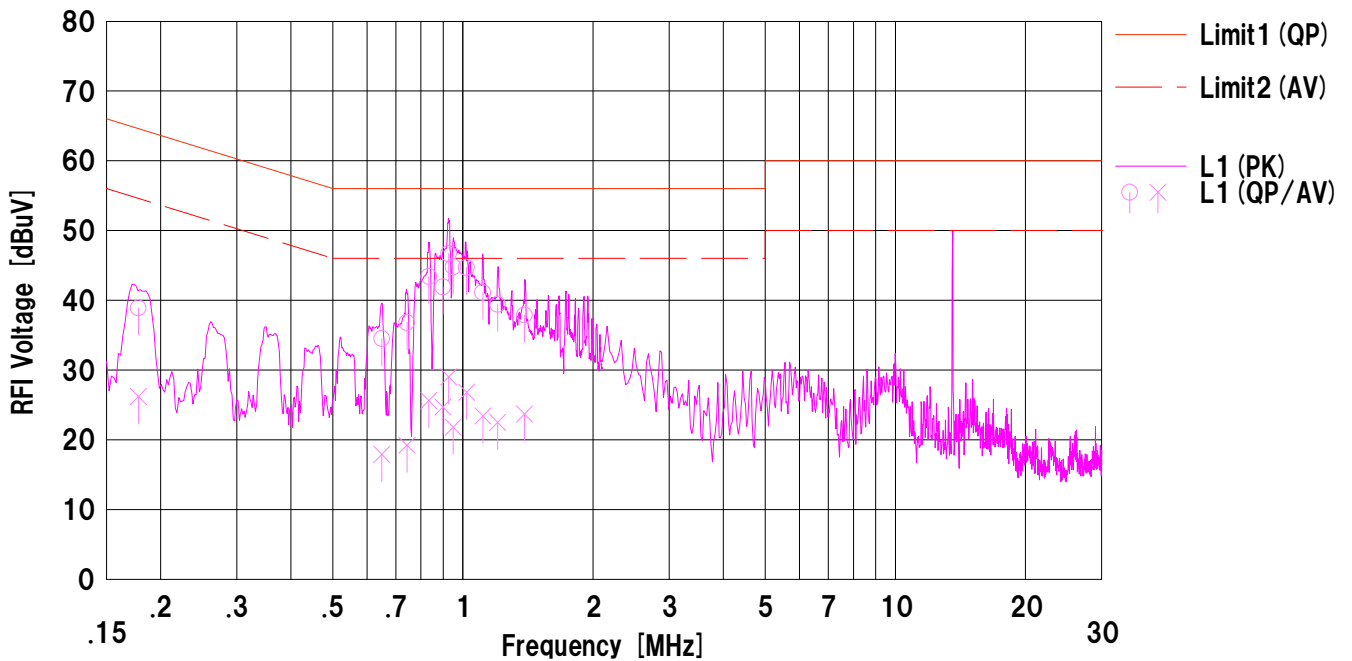
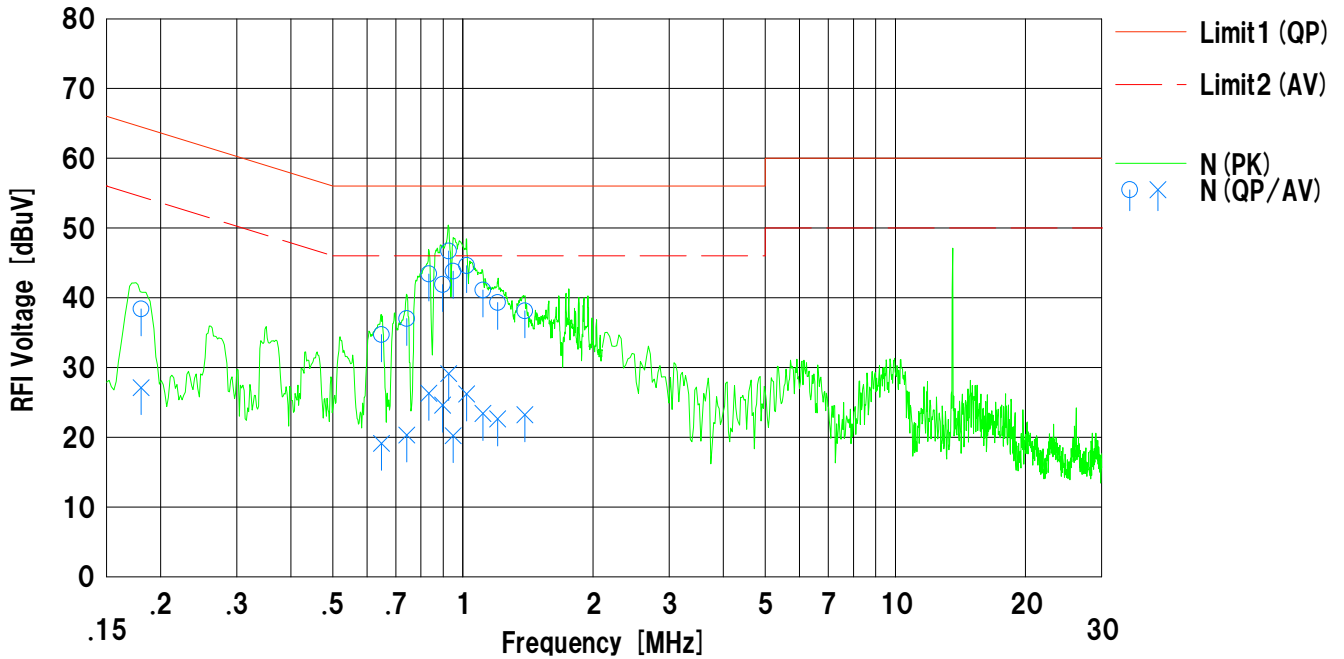
UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 4
 Remarks : (Nichicon's AC adaptor No.1) , X'tal B

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi



DATA OF CONDUCTED EMISSION TEST

UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD
 Kind of EUT : Refer to section 2.2
 Model No. : KTR-001
 Serial No. : 4
 Remarks : (Nichicon's AC adaptor No.1), X'tal B

Mode : NFC type B transmitting
 Order No. : 10334250S
 Power : AC 120V / 60Hz
 Temp./Humi. : 25deg.C / 53%RH

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

Engineer : Akio Hayashi

<< QP/AV DATA >>

No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.18020	25.6	14.3	12.8	38.4	27.1	64.4	54.4	26.0	27.3	N	
2	0.64845	21.9	6.3	12.8	34.7	19.1	56.0	46.0	21.3	26.9	N	
3	0.74130	24.2	7.5	12.8	37.0	20.3	56.0	46.0	19.0	25.7	N	
4	0.83410	30.6	13.5	12.8	43.4	26.3	56.0	46.0	12.6	19.7	N	
5	0.89820	29.1	11.8	12.8	41.9	24.6	56.0	46.0	14.1	21.4	N	
6	0.92700	33.9	16.3	12.8	46.7	29.1	56.0	46.0	9.3	16.9	N	
7	0.94960	31.0	7.4	12.8	43.8	20.2	56.0	46.0	12.2	25.8	N	
8	1.02060	31.7	13.3	12.9	44.6	26.2	56.0	46.0	11.4	19.8	N	
9	1.11260	28.2	10.5	12.9	41.1	23.4	56.0	46.0	14.9	22.6	N	
10	1.20410	26.4	9.7	12.9	39.3	22.6	56.0	46.0	16.7	23.4	N	
11	1.39080	25.2	10.3	12.9	38.1	23.2	56.0	46.0	17.9	22.8	N	
12	0.17770	26.1	13.4	12.8	38.9	26.2	64.5	54.5	25.6	28.3	L1	
13	0.64940	21.7	5.1	12.8	34.5	17.9	56.0	46.0	21.5	28.1	L1	
14	0.74220	24.0	6.4	12.8	36.8	19.2	56.0	46.0	19.2	26.8	L1	
15	0.83450	30.6	12.8	12.8	43.4	25.6	56.0	46.0	12.6	20.4	L1	
16	0.89870	29.1	11.9	12.8	41.9	24.7	56.0	46.0	14.1	21.3	L1	
17	0.92670	33.9	16.2	12.8	46.7	29.0	56.0	46.0	9.3	17.0	L1	
18	0.94990	32.0	9.0	12.8	44.8	21.8	56.0	46.0	11.2	24.2	L1	
19	1.01980	31.8	13.9	12.9	44.7	26.8	56.0	46.0	11.3	19.2	L1	
20	1.11240	28.2	10.5	12.9	41.1	23.4	56.0	46.0	14.9	22.6	L1	
21	1.20420	26.5	9.6	12.9	39.4	22.5	56.0	46.0	16.6	23.5	L1	
22	1.38920	25.0	10.8	12.9	37.9	23.7	56.0	46.0	18.1	22.3	L1	

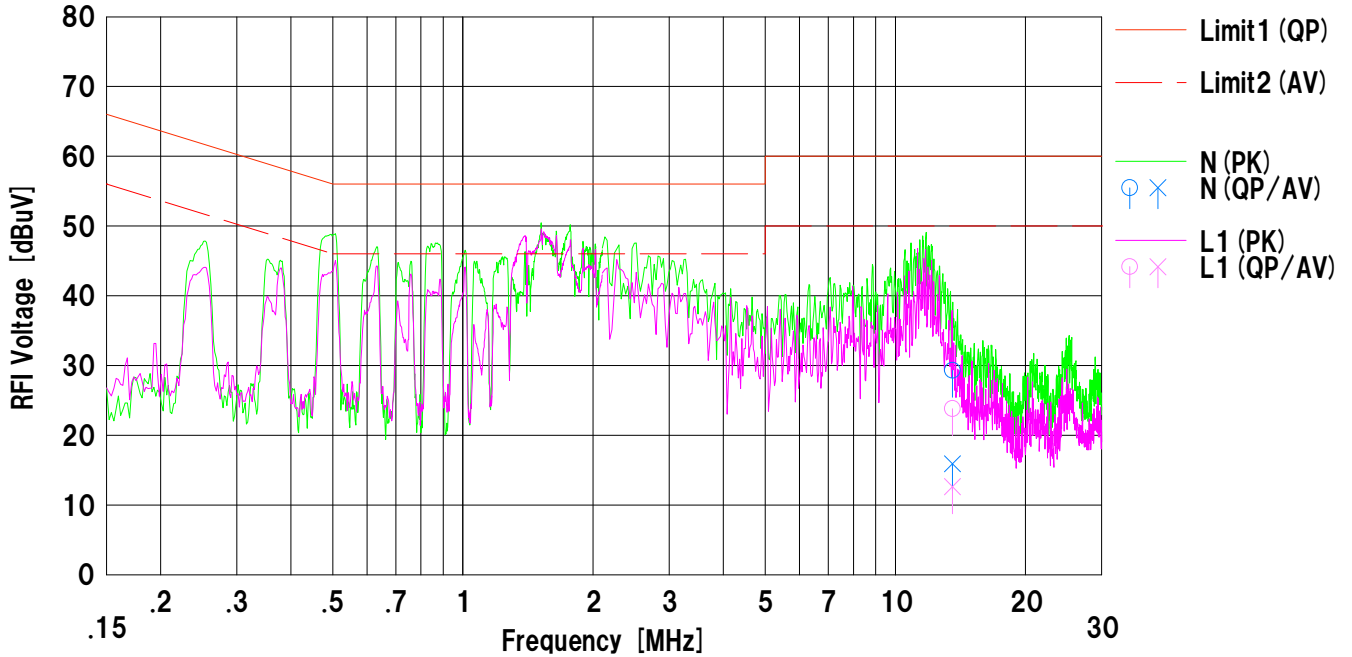
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2014/06/24

Company : NINTENDO CO., LTD Kind of EUT : Refer to section 2.2 Model No. : KTR-001 Serial No. : 12 Remarks : (Nichicon's AC adaptor No.1) , X'tal B, Antenna Terminated	Mode : NFC type B transmitting Order No. : 10334250S Power : AC 120V / 60Hz Temp./Humi. : 25deg.C / 53%RH
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------

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

Engineer : Akio Hayashi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	13.56000	14.8	1.4	14.5	29.3	15.9	60.0	50.0	30.7	34.1	N	
2	13.56000	9.3	-1.9	14.5	23.8	12.6	60.0	50.0	36.2	37.4	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.3 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.	Regulation: FCC Part15 Subpart C 15.225
Equipment: Refer to section 2.2	Test Distance: 3m
Model: KTR-001	Date: June 22, 2014
Sample No.: 2	Temperature: 25 deg.C
Power: AC 120V / 60Hz	Humidity: 58 %RH
Mode: Transmitting 13.56MHz	ENGINEER: Shinichi Takano

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

Fundamental emission

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	57.4	67.1	19.0	6.3	32.2	-40.0	10.5	20.2	83.9	73.4	63.7

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 [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	29.8	30.2	19.0	6.3	32.2	-40.0	-17.1	-16.7	29.5	46.6	46.2
2	13.410	29.9	30.3	19.0	6.3	32.2	-40.0	-17.0	-16.6	40.5	57.5	57.1
3	13.553	42.9	52.5	19.0	6.3	32.2	-40.0	-4.0	5.6	50.4	54.4	44.8
4	13.567	43.2	52.8	19.0	6.3	32.2	-40.0	-3.7	5.9	50.4	54.1	44.5
5	13.710	29.9	30.4	19.0	6.3	32.2	-40.0	-17.0	-16.5	40.5	57.5	57.0
6	14.010	29.8	30.4	19.0	6.3	32.2	-40.0	-17.1	-16.5	29.5	46.6	46.0

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.

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

Telephone : +81 463 50 6400

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.3 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.	Regulation: FCC Part15 Subpart C 15.225
Equipment: Refer to section 2.2	Test Distance: 3m
Model: KTR-001	Date: June 22, 2014
Sample No.: 2	Temperature: 25 deg.C
Power: AC 120V / 60Hz	Humidity: 58 %RH
Mode: Transmitting 13.56MHz	ENGINEER: Shinichi Takano

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

Fundamental emission

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	56.9	67.4	19.0	6.3	32.2	-40.0	10.0	20.5	83.9	73.9	63.4

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 [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	29.7	30.4	19.0	6.3	32.2	-40.0	-17.2	-16.5	29.5	46.7	46.0
2	13.410	29.6	30.5	19.0	6.3	32.2	-40.0	-17.3	-16.4	40.5	57.8	56.9
3	13.553	42.5	52.8	19.0	6.3	32.2	-40.0	-4.4	5.9	50.4	54.8	44.5
4	13.567	42.8	53.0	19.0	6.3	32.2	-40.0	-4.1	6.1	50.4	54.5	44.3
5	13.710	29.4	30.3	19.0	6.3	32.2	-40.0	-17.5	-16.6	40.5	58.0	57.1
6	14.010	29.8	30.6	19.0	6.3	32.2	-40.0	-17.1	-16.3	29.5	46.6	45.8

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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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.3 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.	Regulation: FCC Part15 Subpart C 15.225
Equipment: Refer to section 2.2	Test Distance: 3m
Model: KTR-001	Date: June 22, 2014
Sample No.: 2	Temperature: 25 deg.C
Power: AC 120V / 60Hz	Humidity: 58 %RH
Mode: Transmitting 13.56MHz	ENGINEER: Shinichi Takano

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

Fundamental emission

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	57.2	67.5	19.0	6.3	32.2	-40.0	10.3	20.6	83.9	73.6	63.3

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 [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	29.6	30.3	19.0	6.3	32.2	-40.0	-17.3	-16.6	29.5	46.8	46.1
2	13.410	29.8	30.4	19.0	6.3	32.2	-40.0	-17.1	-16.5	40.5	57.6	57.0
3	13.553	42.7	52.9	19.0	6.3	32.2	-40.0	-4.2	6.0	50.4	54.6	44.4
4	13.567	43.0	53.1	19.0	6.3	32.2	-40.0	-3.9	6.2	50.4	54.3	44.2
5	13.710	29.8	30.4	19.0	6.3	32.2	-40.0	-17.1	-16.5	40.5	57.6	57.0
6	14.010	29.8	30.4	19.0	6.3	32.2	-40.0	-17.1	-16.5	29.5	46.6	46.0

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)

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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.3 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.	Regulation: FCC Part15 Subpart C 15.225
Equipment: Refer to section 2.2	Test Distance: 3m
Model: KTR-001	Date: June 22, 2014
Sample No.: 4	Temperature: 25 deg.C
Power: AC 120V / 60Hz	Humidity: 58 %RH
Mode: Transmitting 13.56MHz	ENGINEER: Shinichi Takano

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

Fundamental emission

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	57.2	67.1	19.0	6.3	32.2	-40.0	10.3	20.2	83.9	73.6	63.7

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 [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	29.7	30.3	19.0	6.3	32.2	-40.0	-17.2	-16.6	29.5	46.7	46.1
2	13.410	29.8	30.2	19.0	6.3	32.2	-40.0	-17.1	-16.7	40.5	57.6	57.2
3	13.553	43.2	53.0	19.0	6.3	32.2	-40.0	-3.7	6.1	50.4	54.1	44.3
4	13.567	42.6	52.4	19.0	6.3	32.2	-40.0	-4.3	5.5	50.4	54.7	44.9
5	13.710	29.8	30.4	19.0	6.3	32.2	-40.0	-17.1	-16.5	40.5	57.6	57.0
6	14.010	29.8	30.3	19.0	6.3	32.2	-40.0	-17.1	-16.6	29.5	46.6	46.1

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)

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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.3 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.	Regulation: FCC Part15 Subpart C 15.225
Equipment: Refer to section 2.2	Test Distance: 3m
Model: KTR-001	Date: June 22, 2014
Sample No.: 4	Temperature: 25 deg.C
Power: AC 120V / 60Hz	Humidity: 58 %RH
Mode: Transmitting 13.56MHz	ENGINEER: Shinichi Takano

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

Fundamental emission

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	57.0	67.3	19.0	6.3	32.2	-40.0	10.1	20.4	83.9	73.8	63.5

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 [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	29.6	30.4	19.0	6.3	32.2	-40.0	-17.3	-16.5	29.5	46.8	46.0
2	13.410	29.6	30.2	19.0	6.3	32.2	-40.0	-17.3	-16.7	40.5	57.8	57.2
3	13.553	43.0	53.1	19.0	6.3	32.2	-40.0	-3.9	6.2	50.4	54.3	44.2
4	13.567	42.5	52.6	19.0	6.3	32.2	-40.0	-4.4	5.7	50.4	54.8	44.7
5	13.710	29.7	30.5	19.0	6.3	32.2	-40.0	-17.2	-16.4	40.5	57.7	56.9
6	14.010	29.7	30.3	19.0	6.3	32.2	-40.0	-17.2	-16.6	29.5	46.7	46.1

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)

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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.3 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.	Regulation: FCC Part15 Subpart C 15.225
Equipment: Refer to section 2.2	Test Distance: 3m
Model: KTR-001	Date: June 22, 2014
Sample No.: 4	Temperature: 25 deg.C
Power: AC 120V / 60Hz	Humidity: 58 %RH
Mode: Transmitting 13.56MHz	ENGINEER: Shinichi Takano

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

Fundamental emission

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	57.1	67.2	19.0	6.3	32.2	-40.0	10.2	20.3	83.9	73.7	63.6

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 [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	29.7	30.2	19.0	6.3	32.2	-40.0	-17.2	-16.7	29.5	46.7	46.2
2	13.410	29.6	30.3	19.0	6.3	32.2	-40.0	-17.3	-16.6	40.5	57.8	57.1
3	13.553	43.1	53.1	19.0	6.3	32.2	-40.0	-3.8	6.2	50.4	54.2	44.2
4	13.567	42.6	52.5	19.0	6.3	32.2	-40.0	-4.3	5.6	50.4	54.7	44.8
5	13.710	29.7	30.1	19.0	6.3	32.2	-40.0	-17.2	-16.8	40.5	57.7	57.3
6	14.010	29.7	30.3	19.0	6.3	32.2	-40.0	-17.2	-16.6	29.5	46.7	46.1

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)

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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.3 Semi-Anechoic Chamber

Company: NINTENDO CO., LTD.	Regulation: FCC Part15 Subpart C 15.225
Equipment: Refer to section 2.2	Test Distance: 3m
Model: KTR-001	Date: June 22, 2014
Sample No.: 2	Temperature: 25 deg.C
Power: AC 120V / 60Hz	Humidity: 58 %RH
Mode: Transmitting 13.56MHz	ENGINEER: Shinichi Takano

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

Fundamental emission

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	52.4	63.5	19.0	6.3	32.2	-40.0	5.5	16.6	83.9	78.4	67.3

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 [MHz]	Test Receiver Reading		Antenna Factor [dB/m]	Loss [dB]	AMP GAIN [dB]	Distance factor [dB]	RESULT		LIMIT (30m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]					Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	29.7	30.2	19.0	6.3	32.2	-40.0	-17.2	-16.7	29.5	46.7	46.2
2	13.348	31.2	40.7	19.0	6.3	32.2	-40.0	-15.7	-6.2	40.5	56.2	46.7
3	13.410	29.9	33.1	19.0	6.3	32.2	-40.0	-17.0	-13.8	40.5	57.5	54.3
4	13.455	37.9	44.2	19.0	6.3	32.2	-40.0	-9.0	-2.7	50.4	59.4	53.1
5	13.553	42.9	48.9	19.0	6.3	32.2	-40.0	-4.0	2.0	50.4	54.4	48.4
6	13.567	43.2	49.2	19.0	6.3	32.2	-40.0	-3.7	2.3	50.4	54.1	48.1
7	13.666	38.4	44.5	19.0	6.3	32.2	-40.0	-8.5	-2.4	50.4	58.9	52.8
8	13.710	29.9	33.4	19.0	6.3	32.2	-40.0	-17.0	-13.5	40.5	57.5	54.0
9	13.773	31.1	41.2	19.0	6.3	32.2	-40.0	-15.8	-5.7	40.5	56.3	46.2
10	14.010	29.6	30.2	19.0	6.3	32.2	-40.0	-17.3	-16.7	29.5	46.8	46.2

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)

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Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.
 Equipment: Refer to section 2.2
 Model: KTR-001
 Sample No.: 2
 Power: AC 120V / 60Hz
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-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 22, 2014 June 24, 2014

Temperature 25 deg.C 24 deg.C

Humidity: 58 %RH 63 %RH

ENGINEER: Shinichi Takano Akio Hayashi
(below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12.70	QP	39.8	19.0	6.3	32.2	-40.0	-7.1	29.5	36.6	-	359	* Limit: 30m
Hori.	14.41	QP	40.0	19.0	6.3	32.2	-40.0	-6.9	29.5	36.4	-	359	* Limit: 30m
Hori.	27.12	QP	30.9	19.8	6.5	32.2	-40.0	-15.0	29.5	44.5	-	359	* Limit: 30m
Hori.	98.177	QP	42.0	9.7	7.3	32.1	0.0	26.9	43.5	16.6	327	95	
Hori.	149.600	QP	31.3	14.6	7.7	32.1	0.0	21.5	43.5	22.0	200	87	
Hori.	335.148	QP	36.7	14.7	8.6	32.0	0.0	28.0	46.0	18.0	100	112	
Vert.	12.70	QP	29.9	19.0	6.3	32.2	-40.0	-17.0	29.5	46.5	-	359	* Limit: 30m
Vert.	14.41	QP	31.8	19.0	6.3	32.2	-40.0	-15.1	29.5	44.6	-	359	* Limit: 30m
Vert.	27.12	QP	29.6	19.8	6.5	32.2	-40.0	-16.3	29.5	45.8	-	359	* Limit: 30m
Vert.	65.453	QP	42.8	7.1	6.4	32.2	0.0	24.1	40.0	15.9	100	191	
Vert.	149.160	QP	34.7	14.6	7.7	32.1	0.0	24.9	43.5	18.6	100	122	
Vert.	335.148	QP	30.3	14.7	8.6	32.0	0.0	21.6	46.0	24.4	135	175	

Result = Reading + Ant Factor + Loss (Cable+ATT+ΔAF(above 30MHz)) - Gain(Amprifier) + 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= 50.5dBuV/m, Ver= 60.2 dBuV/m

UL Japan, Inc.

Shonan EMC Lab.

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Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.
 Equipment: Refer to section 2.2
 Model: KTR-001
 Sample No.: 2
 Power: AC 120V / 60Hz
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-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 22, 2014 June 24, 2014

Temperature 25 deg.C 24 deg.C

Humidity: 58 %RH 63 %RH

ENGINEER: Shinichi Takano Akio Hayashi
(below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12.71	QP	39.7	19.0	6.3	32.2	-40.0	-7.2	29.5	36.7	-	359	* Limit: 30m
Hori.	14.40	QP	40.3	19.0	6.3	32.2	-40.0	-6.6	29.5	36.1	-	359	* Limit: 30m
Hori.	27.12	QP	31.2	19.8	6.5	32.2	-40.0	-14.7	29.5	44.2	-	359	* Limit: 30m
Hori.	67.800	QP	41.4	6.7	6.5	32.2	0.0	22.4	40.0	17.6	257	277	
Hori.	94.920	QP	46.2	9.1	7.4	32.1	0.0	30.6	43.5	12.9	196	240	
Hori.	327.290	QP	36.6	14.5	8.5	32.0	0.0	27.6	46.0	18.4	100	124	
Vert.	12.71	QP	31.2	19.0	6.3	32.2	-40.0	-15.7	29.5	45.2	-	359	* Limit: 30m
Vert.	14.40	QP	31.5	19.0	6.3	32.2	-40.0	-15.4	29.5	44.9	-	359	* Limit: 30m
Vert.	27.12	QP	29.5	19.8	6.5	32.2	-40.0	-16.4	29.5	45.9	-	359	* Limit: 30m
Vert.	67.800	QP	48.9	6.7	6.5	32.2	0.0	29.9	40.0	10.1	100	218	
Vert.	94.920	QP	45.2	9.1	7.4	32.1	0.0	29.6	43.5	13.9	130	152	
Vert.	327.291	QP	31.5	14.5	8.5	32.0	0.0	22.5	46.0	23.5	151	182	

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= 50dBuV/m, Ver= 60.5 dBuV/m

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Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.
 Equipment: Refer to section 2.2
 Model: KTR-001
 Sample No.: 2
 Power: AC 120V / 60Hz
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-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 22, 2014 June 24, 2014

Temperature 25 deg.C 24 deg.C

Humidity: 58 %RH 63 %RH

ENGINEER: Shinichi Takano Akio Hayashi
(below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12.71	QP	40.1	19.0	6.3	32.2	-40.0	-6.8	29.5	36.3	-	359	* Limit: 30m
Hori.	14.41	QP	40.2	19.0	6.3	32.2	-40.0	-6.7	29.5	36.2	-	359	* Limit: 30m
Hori.	27.12	QP	31.1	19.8	6.5	32.2	-40.0	-14.8	29.5	44.3	-	359	* Limit: 30m
Hori.	67.800	QP	40.0	6.7	6.5	32.2	0.0	21.0	40.0	19.0	301	259	
Hori.	94.920	QP	46.0	9.1	7.4	32.1	0.0	30.4	43.5	13.1	199	238	
Hori.	327.237	QP	37.8	14.5	8.5	32.0	0.0	28.8	46.0	17.2	100	177	
Vert.	12.71	QP	31.2	19.0	6.3	32.2	-40.0	-15.7	29.5	45.2	-	359	* Limit: 30m
Vert.	14.41	QP	31.4	19.0	6.3	32.2	-40.0	-15.5	29.5	45.0	-	359	* Limit: 30m
Vert.	27.12	QP	29.4	19.8	6.5	32.2	-40.0	-16.5	29.5	46.0	-	359	* Limit: 30m
Vert.	67.800	QP	47.0	6.7	6.5	32.2	0.0	28.0	40.0	12.0	221	149	
Vert.	94.920	QP	42.7	9.1	7.4	32.1	0.0	27.1	43.5	16.4	154	72	
Vert.	327.278	QP	29.9	14.5	8.5	32.0	0.0	20.9	46.0	25.1	175	303	

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= 50.3dBuV/m, Ver= 60.6 dBuV/m

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Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.
 Equipment: Refer to section 2.2
 Model: KTR-001
 Sample No.: 4
 Power: AC 120V / 60Hz
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-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 22, 2014 June 24, 2014

Temperature 25 deg.C 24 deg.C

Humidity: 58 %RH 63 %RH

ENGINEER: Shinichi Takano Akio Hayashi
(below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12.72	QP	40.3	19.0	6.3	32.2	-40.0	-6.6	29.5	36.1	-	359	* Limit: 30m
Hori.	14.41	QP	40.4	19.0	6.3	32.2	-40.0	-6.5	29.5	36.0	-	359	* Limit: 30m
Hori.	27.12	QP	30.9	19.8	6.5	32.2	-40.0	-15.0	29.5	44.5	-	359	* Limit: 30m
Hori.	67.800	QP	36.6	6.7	6.5	32.2	0.0	17.6	40.0	22.4	258	268	
Hori.	94.920	QP	46.2	9.1	7.4	32.1	0.0	30.6	43.5	12.9	317	258	
Hori.	335.119	QP	36.3	14.7	8.6	32.0	0.0	27.6	46.0	18.4	100	297	
Vert.	12.72	QP	31.6	19.0	6.3	32.2	-40.0	-15.3	29.5	44.8	-	359	* Limit: 30m
Vert.	14.41	QP	31.9	19.0	6.3	32.2	-40.0	-15.0	29.5	44.5	-	359	* Limit: 30m
Vert.	27.12	QP	29.7	19.8	6.5	32.2	-40.0	-16.2	29.5	45.7	-	359	* Limit: 30m
Vert.	67.800	QP	42.0	6.7	6.5	32.2	0.0	23.0	40.0	17.0	100	211	
Vert.	94.920	QP	27.8	9.1	7.4	32.1	0.0	12.2	43.5	31.3	227	162	
Vert.	335.144	QP	29.3	14.7	8.6	32.0	0.0	20.6	46.0	25.4	381	32	

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= 50.3dBuV/m, Ver= 60.2 dBuV/m

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Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.
 Equipment: Refer to section 2.2
 Model: KTR-001
 Sample No.: 4
 Power: AC 120V / 60Hz
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-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 22, 2014 June 24, 2014

Temperature 25 deg.C 24 deg.C

Humidity: 58 %RH 63 %RH

ENGINEER: Shinichi Takano Akio Hayashi
(below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12.71	QP	40.5	19.0	6.3	32.2	-40.0	-6.4	29.5	35.9	-	359	* Limit: 30m
Hori.	14.40	QP	40.5	19.0	6.3	32.2	-40.0	-6.4	29.5	35.9	-	359	* Limit: 30m
Hori.	27.12	QP	31.1	19.8	6.5	32.2	-40.0	-14.8	29.5	44.3	-	359	* Limit: 30m
Hori.	67.800	QP	37.7	6.7	6.5	32.2	0.0	18.7	40.0	21.3	264	263	
Hori.	94.920	QP	43.6	9.1	7.4	32.1	0.0	28.0	43.5	15.5	206	240	
Hori.	335.051	QP	37.5	14.7	8.6	32.0	0.0	28.8	46.0	17.2	100	188	
Vert.	12.71	QP	29.6	19.0	6.3	32.2	-40.0	-17.3	29.5	46.8	-	359	* Limit: 30m
Vert.	14.40	QP	31.4	19.0	6.3	32.2	-40.0	-15.5	29.5	45.0	-	359	* Limit: 30m
Vert.	27.12	QP	29.5	19.8	6.5	32.2	-40.0	-16.4	29.5	45.9	-	359	* Limit: 30m
Vert.	67.800	QP	43.0	6.7	6.5	32.2	0.0	24.0	40.0	16.0	100	232	
Vert.	94.920	QP	41.3	9.1	7.4	32.1	0.0	25.7	43.5	17.8	123	186	
Vert.	335.133	QP	27.3	14.7	8.6	32.0	0.0	18.6	46.0	27.4	141	264	

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= 50.1dBuV/m, Ver= 60.4 dBuV/m

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Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.
 Equipment: Refer to section 2.2
 Model: KTR-001
 Sample No.: 4
 Power: AC 120V / 60Hz
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-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 22, 2014 June 24, 2014

Temperature 25 deg.C 24 deg.C

Humidity: 58 %RH 63 %RH

ENGINEER: Shinichi Takano Akio Hayashi
(below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12.71	QP	40.1	19.0	6.3	32.2	-40.0	-6.8	29.5	36.3	-	359	* Limit: 30m
Hori.	14.40	QP	40.6	19.0	6.3	32.2	-40.0	-6.3	29.5	35.8	-	359	* Limit: 30m
Hori.	27.12	QP	30.8	19.8	6.5	32.2	-40.0	-15.1	29.5	44.6	-	359	* Limit: 30m
Hori.	67.800	QP	40.8	6.7	6.5	32.2	0.0	21.8	40.0	18.2	312	274	
Hori.	94.920	QP	47.5	9.1	7.4	32.1	0.0	31.9	43.5	11.6	216	234	
Hori.	335.096	QP	38.4	14.7	8.6	32.0	0.0	29.7	46.0	16.3	100	152	
Vert.	12.71	QP	31.3	19.0	6.3	32.2	-40.0	-15.6	29.5	45.1	-	359	* Limit: 30m
Vert.	14.40	QP	31.6	19.0	6.3	32.2	-40.0	-15.3	29.5	44.8	-	359	* Limit: 30m
Vert.	27.12	QP	29.4	19.8	6.5	32.2	-40.0	-16.5	29.5	46.0	-	359	* Limit: 30m
Vert.	67.800	QP	46.0	6.7	6.5	32.2	0.0	27.0	40.0	13.0	100	236	
Vert.	94.920	QP	44.1	9.1	7.4	32.1	0.0	28.5	43.5	15.0	147	169	
Vert.	335.127	QP	29.6	14.7	8.6	32.0	0.0	20.9	46.0	25.1	139	29	

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= 50.2dBuV/m, Ver= 60.3 dBuV/m

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Radiated Emission

UL Japan, Inc.

Shonan EMC Lab. No.3 Semi Anechoic Chamber

Company: NINTENDO CO., LTD.
 Equipment: Refer to section 2.2
 Model: KTR-001
 Sample No.: 2
 Power: AC 120V / 60Hz
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-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 22, 2014 June 24, 2014

Temperature 25 deg.C 24 deg.C

Humidity: 58 %RH 63 %RH

ENGINEER: Shinichi Takano Akio Hayashi
(below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	12.70	QP	39.3	19.0	6.3	32.2	-40.0	-7.6	29.5	37.1	-	359	* Limit: 30m
Hori.	27.12	QP	30.4	19.8	6.5	32.2	-40.0	-15.5	29.5	45.0	-	359	* Limit: 30m
Hori.	98.179	QP	42.4	9.7	7.3	32.1	0.0	27.3	43.5	16.2	321	91	
Hori.	334.815	QP	37.0	14.7	8.6	32.0	0.0	28.3	46.0	17.7	100	123	
Vert.	12.70	QP	29.5	19.0	6.3	32.2	-40.0	-17.4	29.5	46.9	-	359	* Limit: 30m
Vert.	27.12	QP	29.8	19.8	6.5	32.2	-40.0	-16.1	29.5	45.6	-	359	* Limit: 30m
Vert.	65.450	QP	42.1	7.1	6.4	32.2	0.0	23.4	40.0	16.6	100	211	
Vert.	327.285	QP	31.8	14.5	8.5	32.0	0.0	22.8	46.0	23.2	100	206	

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= 56.6 dBuV/m

UL Japan, Inc.

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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 KTR-001
 Serial No. 10
 Power DC 3.7V
 Mode Transmitting 13.56 MHz
 Remarks X'tal A

Regulation FCC Part15 Subpart C 15.225 (e)
 Date June 12, 2014
 Temperature 25deg.C
 Humidity 56%RH
 ENGINEER Kenichi Adachi

Temperature Variation: -20deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.560005	0.000005	0.00004	0.010
after 2minutes	13.56	13.560028	0.000028	0.00021	0.010
after 5minutes	13.56	13.560032	0.000032	0.00024	0.010
after 10minutes	13.56	13.560035	0.000035	0.00026	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	13.560050	0.000050	0.00037	0.010
after 5minutes	13.56	13.560051	0.000051	0.00038	0.010
after 10minutes	13.56	13.560052	0.000052	0.00038	0.010

Temperature Variation: 0deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.560052	0.000052	0.00038	0.010
after 2minutes	13.56	13.560050	0.000050	0.00037	0.010
after 5minutes	13.56	13.560050	0.000050	0.00037	0.010
after 10minutes	13.56	13.560050	0.000050	0.00037	0.010

Temperature Variation: 10deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.560050	0.000050	0.00037	0.010
after 2minutes	13.56	13.560039	0.000039	0.00029	0.010
after 5minutes	13.56	13.560038	0.000038	0.00028	0.010
after 10minutes	13.56	13.560036	0.000036	0.00027	0.010

Temperature Variation: 20deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.560029	0.000029	0.00021	0.010
after 2minutes	13.56	13.560011	0.000011	0.00008	0.010
after 5minutes	13.56	13.560004	0.000004	0.00003	0.010
after 10minutes	13.56	13.560001	0.000001	0.00001	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	13.560018	0.000018	0.00013	0.010
after 2minutes	13.56	13.560006	0.000006	0.00004	0.010
after 5minutes	13.56	13.560003	0.000003	0.00002	0.010
after 10minutes	13.56	13.560001	0.000001	0.00001	0.010

Temperature Variation: 40deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.560001	0.000001	0.00001	0.010
after 2minutes	13.56	13.559993	-0.000007	-0.00005	0.010
after 5minutes	13.56	13.559994	-0.000006	-0.00004	0.010
after 10minutes	13.56	13.559994	-0.000006	-0.00004	0.010

Temperature Variation: 50deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559993	-0.000007	-0.00005	0.010
after 2minutes	13.56	13.559998	-0.000002	-0.00001	0.010
after 5minutes	13.56	13.560002	0.000002	0.00001	0.010
after 10minutes	13.56	13.560005	0.000005	0.00004	0.010

UL Japan, Inc.

Shonan EMC Lab.

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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 KTR-001
 Serial No. 10
 Power DC 3.7V
 Mode Transmitting 13.56 MHz
 Remarks X'tal A

Regulation FCC Part15 Subpart C 15.225 (e)
 Date June 12, 2014
 Temperature 25deg.C
 Humidity 56%RH
 ENGINEER Kenichi Adachi

Voltage Variation: DC 3.145 V

Temperature Variation: 20deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.560001	0.000001	0.00001	0.010
after 2minutes	13.56	13.559996	-0.000004	-0.00003	0.010
after 5minutes	13.56	13.559994	-0.000006	-0.00004	0.010
after 10minutes	13.56	13.559993	-0.000007	-0.00005	0.010

Voltage Variation: DC 4.255 V

Temperature Variation: 20deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.560005	0.000005	0.00004	0.010
after 2minutes	13.56	13.560006	0.000006	0.00004	0.010
after 5minutes	13.56	13.560009	0.000009	0.00007	0.010
after 10minutes	13.56	13.560013	0.000013	0.00010	0.010

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Data of Frequency Tolerance

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Shonan EMC Lab. No.5 Shielded room

Company NINTENDO CO., LTD.
 Equipment Refer to section 2.2
 Model KTR-001
 Serial No. 12
 Power DC 3.7V
 Mode Transmitting 13.56 MHz
 Remarks X'tal B

Regulation FCC Part15 Subpart C 15.225 (e)
 Date June 13, 2014
 Temperature 26 deg.C
 Humidity 43 %RH
 ENGINEER Tatsuya Arai

Temperature Variation: -20deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559930	-0.000070	-0.00052	0.010
after 2minutes	13.56	13.559973	-0.000027	-0.00020	0.010
after 5minutes	13.56	13.559981	-0.000019	-0.00014	0.010
after 10minutes	13.56	13.559982	-0.000018	-0.00013	0.010

Temperature Variation: -10deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559980	-0.000020	-0.00015	0.010
after 2minutes	13.56	13.559995	-0.000005	-0.00004	0.010
after 5minutes	13.56	13.559998	-0.000002	-0.00001	0.010
after 10minutes	13.56	13.559999	-0.000001	-0.00001	0.010

Temperature Variation: 0deg.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	13.560000	0.000000	0.00000	0.010
after 5minutes	13.56	13.559998	-0.000002	-0.00001	0.010
after 10minutes	13.56	13.559997	-0.000003	-0.00002	0.010

Temperature Variation: 10deg.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	13.559990	-0.000010	-0.00007	0.010
after 5minutes	13.56	13.559987	-0.000013	-0.00010	0.010
after 10minutes	13.56	13.559985	-0.000015	-0.00011	0.010

Temperature Variation: 20deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559986	-0.000014	-0.00010	0.010
after 2minutes	13.56	13.559973	-0.000027	-0.00020	0.010
after 5minutes	13.56	13.559964	-0.000036	-0.00027	0.010
after 10minutes	13.56	13.559960	-0.000040	-0.00029	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	13.559962	-0.000038	-0.00028	0.010
after 2minutes	13.56	13.559942	-0.000058	-0.00043	0.010
after 5minutes	13.56	13.559935	-0.000065	-0.00048	0.010
after 10minutes	13.56	13.559932	-0.000068	-0.00050	0.010

Temperature Variation: 40deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559933	-0.000067	-0.00049	0.010
after 2minutes	13.56	13.559921	-0.000079	-0.00058	0.010
after 5minutes	13.56	13.559918	-0.000082	-0.00060	0.010
after 10minutes	13.56	13.559917	-0.000083	-0.00061	0.010

Temperature Variation: 50deg.C

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559917	-0.000083	-0.00061	0.010
after 2minutes	13.56	13.559916	-0.000084	-0.00062	0.010
after 5minutes	13.56	13.559917	-0.000083	-0.00061	0.010
after 10minutes	13.56	13.559919	-0.000081	-0.00060	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 KTR-001
 Serial No. 12
 Power DC 3.7V
 Mode Transmitting 13.56 MHz
 Remarks X'tal B

Regulation FCC Part15 Subpart C 15.225 (e)
 Date June 13, 2014
 Temperature 26 deg.C
 Humidity 43 %RH
 ENGINEER Tatsuya Arai

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

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559975	-0.000025	-0.00018	0.010
after 2minutes	13.56	13.559972	-0.000028	-0.00021	0.010
after 5minutes	13.56	13.559968	-0.000032	-0.00024	0.010
after 10minutes	13.56	13.559966	-0.000034	-0.00025	0.010

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

Test Conditions	Original Frequency (MHz)	Measure Frequency (MHz)	Frequency Error (MHz)	Frequency tolerance (%)	Limit (%)
startup	13.56	13.559960	-0.000040	-0.00029	0.010
after 2minutes	13.56	13.559957	-0.000043	-0.00032	0.010
after 5minutes	13.56	13.559956	-0.000044	-0.00032	0.010
after 10minutes	13.56	13.559955	-0.000045	-0.00033	0.010

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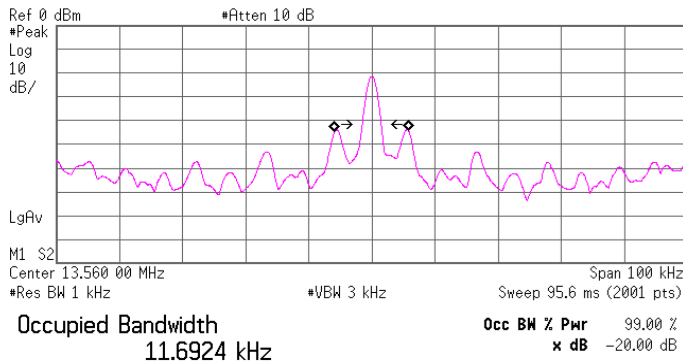
20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

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

Company: NINTENDO CO., LTD.
Equipment: Refer to section 2.2
Model: KTR-001
Sample No.: 10
Power: AC 120V / 60Hz
Mode: Transmitting 13.56MHz
Remarks: NFC type A with Tag, X'tal A

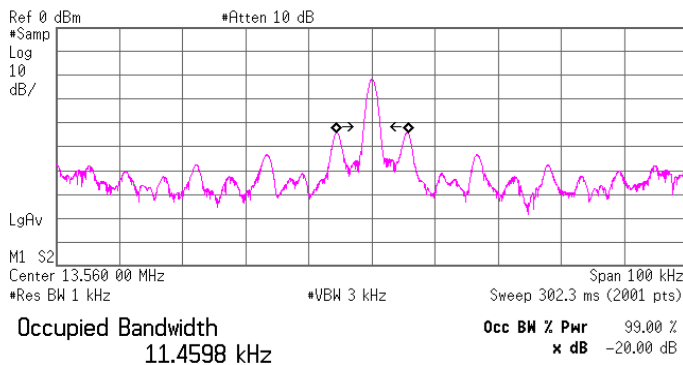
Regulation: FCC Part15 Subpart C 15.215
Date: June 12, 2014
Temperature: 25deg.C
Humidity: 56%RH
ENGINEER: Kenichi Adachi

20dB Bandwidth: 3.000 kHz
* Agilent R L



Transmit Freq Error -52.522 Hz
x dB Bandwidth 3.000 kHz

99% Occupied Bandwidth: 11.460 kHz
* Agilent R L



Transmit Freq Error 5.932 Hz
x dB Bandwidth 2.615 kHz*

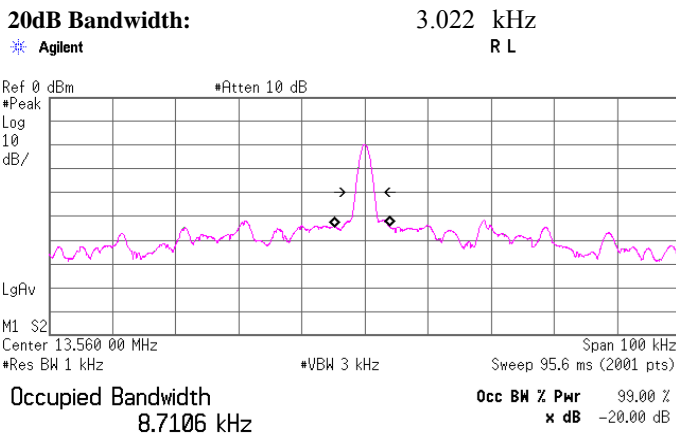
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20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

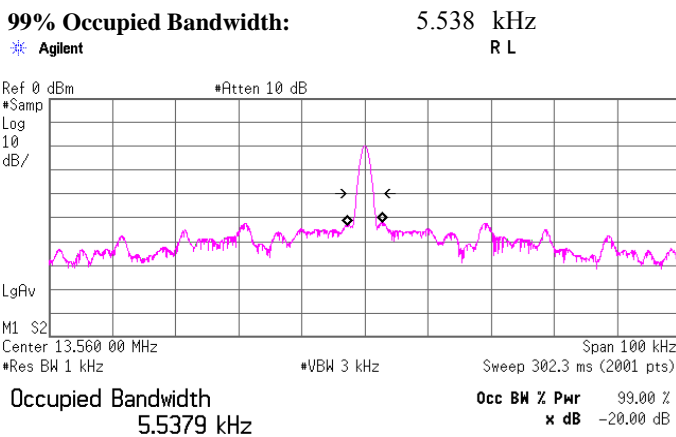
UL Japan, Inc.
Shonan EMC Lab. No.5 Shielded Room

Company: NINTENDO CO., LTD.
Equipment: Refer to section 2.2
Model: KTR-001
Sample No.: 10
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 12, 2014
Temperature: 25deg.C
Humidity: 56%RH
ENGINEER: Kenichi Adachi



Transmit Freq Error -471.146 Hz
x dB Bandwidth 3.022 kHz



Transmit Freq Error -2.323 Hz
x dB Bandwidth 2.662 kHz*

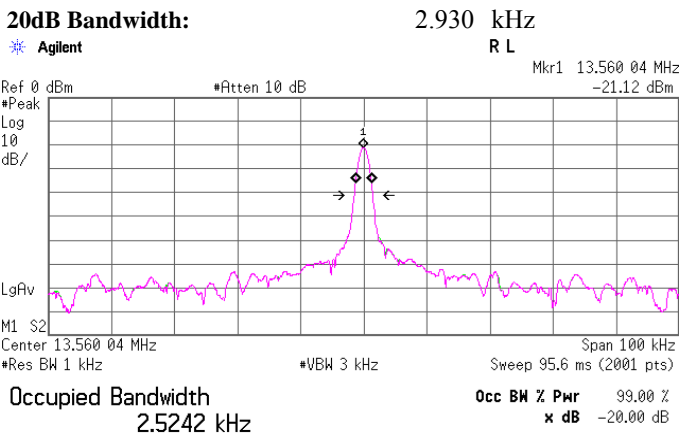
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20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

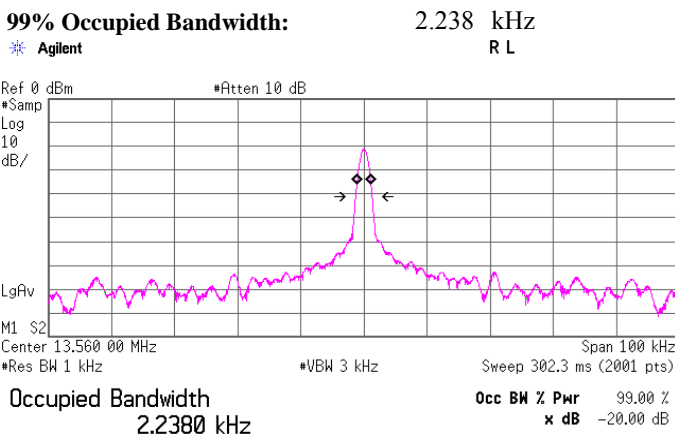
UL Japan, Inc.
Shonan EMC Lab. No.5 Shielded Room

Company: NINTENDO CO., LTD.
Equipment: Refer to section 2.2
Model: KTR-001
Sample No.: 10
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 12, 2014
Temperature: 25deg.C
Humidity: 56%RH
ENGINEER: Kenichi Adachi



Transmit Freq Error -57.481 Hz
Occupied Bandwidth 2.930 kHz



Transmit Freq Error 10.594 Hz
x dB Bandwidth 2.614 kHz*

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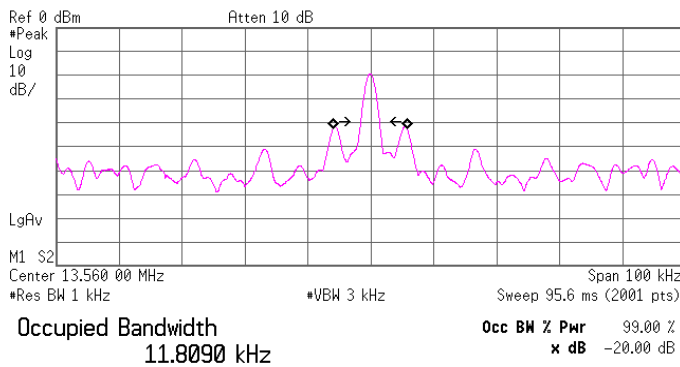
20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

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

Company: NINTENDO CO., LTD.
Equipment: Refer to section 2.2
Model: KTR-001
Sample No.: 12
Power: AC 120V / 60Hz
Mode: Transmitting 13.56MHz
Remarks: NFC type A with Tag, X'tal B

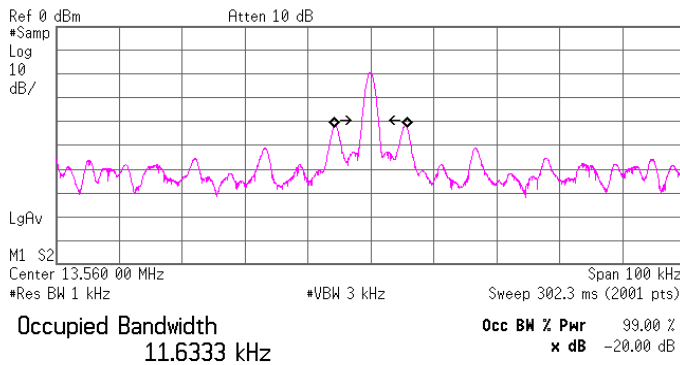
Regulation: FCC Part15 Subpart C 15.215
Date: July 2, 2014
Temperature: 24 deg.C
Humidity: 40 %RH
ENGINEER: Shinichi Takano

20dB Bandwidth: 2.976 kHz
* Agilent R L



Transmit Freq Error -85.184 Hz
x dB Bandwidth 2.976 kHz

99% Occupied Bandwidth: 11.633 kHz
* Agilent R L



Transmit Freq Error -64.187 Hz
x dB Bandwidth 2.626 kHz*

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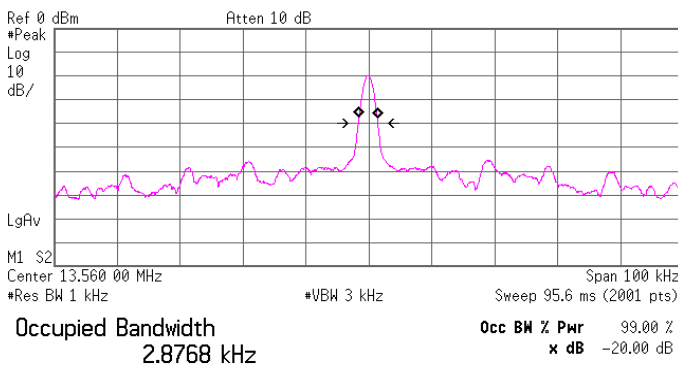
20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

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

Company: NINTENDO CO., LTD.
Equipment: Refer to section 2.2
Model: KTR-001
Sample No.: 12
Power: AC 120V / 60Hz
Mode: Transmitting 13.56MHz
Remarks: NFC type B with Tag, X'tal B

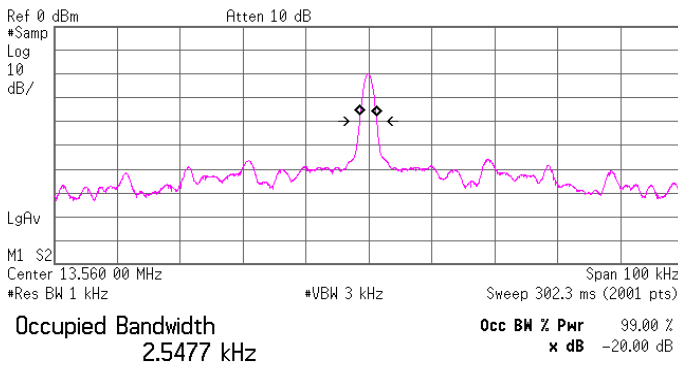
Regulation: FCC Part15 Subpart C 15.215
Date: July 2, 2014
Temperature: 24 deg.C
Humidity: 40 %RH
ENGINEER: Shinichi Takano

20dB Bandwidth: 3.086 kHz
* Agilent R L



Transmit Freq Error -100.557 Hz
x dB Bandwidth 3.086 kHz

99% Occupied Bandwidth: 2.548 kHz
* Agilent R L



Transmit Freq Error -83.933 Hz
x dB Bandwidth 2.735 kHz*

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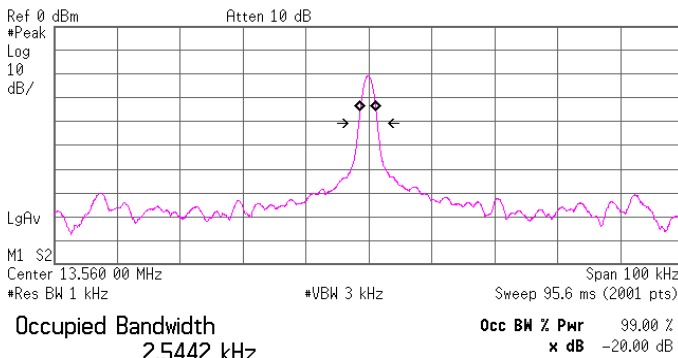
20dB bandwidth & 99% Occupied bandwidth: FCC 15.215 / RSS-Gen

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

Company: NINTENDO CO., LTD.
Equipment: Refer to section 2.2
Model: KTR-001
Sample No.: 12
Power: AC 120V / 60Hz
Mode: Transmitting 13.56MHz
Remarks: NFC type F with Tag, X'tal B

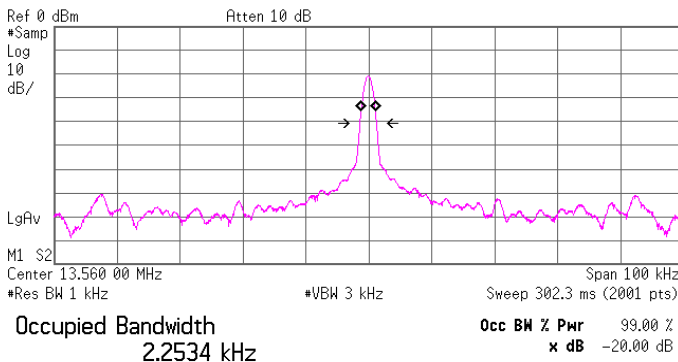
Regulation: FCC Part15 Subpart C 15.215
Date: July 2, 2014
Temperature: 24 deg.C
Humidity: 40 %RH
ENGINEER: Shinichi Takano

20dB Bandwidth: 2.973 kHz
* Agilent R L



Transmit Freq Error -102.869 Hz
x dB Bandwidth 2.973 kHz

99% Occupied Bandwidth: 2.253 kHz
* Agilent R L



Transmit Freq Error -86.090 Hz
x dB Bandwidth 2.626 kHz*

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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)
SFC-01	Microwave Counter	Agilent	53151A	US40511493	AT	2014/04/01 * 12
SAT10-10	Attenuator	Weinschel Corp.	54A-10	37584	AT	2014/04/22 * 12
SCC-G32	Coaxial Cable	Junkosha	MWX241-02000KM SKMS	OCT-09-13-00 5	AT	2013/10/21 * 12
SCH-01	Temperature and Humidity Chamber	Espec	PL-1KT	14020837	AT	2014/04/15 * 12
STS-05	Digital Hitester	Hioki	3805-50	080997828	AT	2014/03/27 * 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
STF-01	Test Fixture	-	-	-	TF	-
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	TF	2014/03/07 * 12
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2014/02/14 * 12
SAT6-07	Attenuator	JFW	50HF-006N	-	RE	2014/02/17 * 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
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2014/02/21 * 12
STR-06	Test Receiver	Rohde & Schwarz	ESCI	101259	RE, CE	2014/03/04 * 12
SJM-15	Measure	ASKUL	-	-	RE, CE	-
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2013/07/09 * 12
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE,RF,MF)	-	RE, CE	-
SLP-02	Loop Antenna	Rohde & Schwarz	HFH2-Z2	100218	RE	2013/11/08 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2013/10/26 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2013/10/26 * 12
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

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 ,
- AT: Antenna terminal conducted tests ,
- TF: Test Fixture ,