

Test report No.

: 31IE0027-HO-01-B-R2

Page

: 1 of 86 : December 22, 2011

Issued date Revised date

: February 9, 2012

: CGJ1148EA **FCC ID**

RADIO TEST REPORT

Test Report No.: 31IE0027-HO-01-B-R2

Applicant

Nikon Corporation

Type of Equipment

Wireless Transmitter

Model No.

WT-5A

FCC ID

CGJ1148EA

Test regulation

FCC Part 15 Subpart E: 2012

Test Result

Complied

- This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
- The results in this report apply only to the sample tested.
- This sample tested is in compliance with above regulation.
- 4. The test results in this report are traceable to the national or international standards.
- This test report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This report is a revised version of 31IE0027-HO-01-B-R1. 31IE0027-HO-01-B-R1 is replaced with this report.

Date of test:

June 24 to July 6, 2011

Representative test engineer:

> Takayuki Shimada Engineer of WiSE Japan, **UL Verification Service**

Approved by:

Takahiro Hatakeda Leader of WiSE Japan, **UL Verification Service**

rk1/index.jsp#nvlap



NVLAP LAB CODE: 200572-0

This laboratory is accredited by the NVLAP LAB CODE 200572-0, U.S.A. The tests reported herein have been performed in accordance with its terms of accreditation. *As for the range of Accreditation in NVLAP, you may refer to the WEB address, http://www.ul.com/japan/jpn/pages/services/emc/about/ma

UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone **Facsimile**

: +81 596 24 8116 : +81 596 24 8124

13-EM-F0429

Page

: 2 of 86 **Issued date** : December 22, 2011 Revised date FCC ID : February 9, 2012 : CGJ1148EA

CONTENTS	PAGE
SECTION 1: Customer information	3
SECTION 2: Equipment under test (E.U.T.)	3
SECTION 3: Test specification, procedures & results	
SECTION 4: Operation of E.U.T. during testing	9
SECTION 5: Conducted Emission	
SECTION 6: Radiated Spurious Emission and Band Edge Compliance	13
SECTION 7: Antenna Terminal Conducted Tests	14
APPENDIX 1: Photographs of test setup	15
Conducted Emission	15
Radiated Spurious Emission	16
Worst Case Position	
APPENDIX 2: Data of EMI test	
Conducted Emission	18
26dB Emission Bandwidth and 99% Occupied Bandwidth	19
Maximum Peak Output Power	25
Radiated Spurious Emission	37
The tested burst timing	
Conducted Spurious Emission	
Peak Excursion Ratio	
APPENDIX 3:Test instruments	85

Page : 3 of 86

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

SECTION 1: Customer information

Company Name : Nikon Corporation

Address : 6-3, Nishi-ohi 1-chome, Shinagawa-ku, Tokyo 140-8601, Japan

Telephone Number : +81-3-3773-8542 Facsimile Number : +81-3-3773-1246 Contact Person : Okuemon Oyama

*Remarks:

Nikon Corporation designates NEC Access Technica, Ltd. as manufacturer of the product (Wireless Transmitter).

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

2.1 Identification of E.U.T.

Type of Equipment : Wireless Transmitter

Model No. : WT-5A

Serial No. : Refer to Section 4, Clause 4.2

Rating : DC5.0V
Receipt Date of Sample : May 20, 2011
Country of Mass-production : Japan

Country of Mass-production . Japan

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

2.2 Product Description

Feature of EUT

- -The wireless LAN unit (built-in antenna) compatible with the IEEE802.11a/b/g/n standard.
- -EUT has 2 colors of LED and a connector for expansion terminal connections for camera (Model No.: D4).
- -Power supply and the wireless LAN unit are controlled on the camera side via an expansion terminal.

General Specification

Clock frequency(ies) in the system : 38.4MHz

UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Page : 4 of 86

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

Specification of WLAN (IEEE802.11a/b/g)

Type of radio	Wireless LAN (IEEE802.11a)	Wireless LAN (IEEE802.11b/g)		
Equipment Type	Transceiver			
Frequency of Operation	5180MHz - 5320MHz	2412MHz - 2462MHz		
	5745MHz - 5825MHz			
Bandwidth & Channel spacing	Bandwidth: 20MHz	Bandwidth: 20MHz		
	Ch spacing: 20MHz	Ch spacing: 5MHz		
Type of Modulation	OFDM	11b: DSSS		
	11g: OFDM			
Antenna Type	Pattern antenna (Inverted L type)		
Antenna Gain	5180-5320MHz: -0.43dBi	2412MHz - 2462MHz: 1.55dBi		
	5745-5825MHz: -1.87dBi			
Power Supply	DC 3.3V / 1.8V			
Operating temperature range	0 to +40 deg. C.			

Specification of WLAN (IEEE802.11n)

Specification of WLAN (IEE	E802.11n)					
Type of radio	Wireless LAN (IEEE802.11n)					
	2.4G Band SISO	2.4G Band SISO	5G Band SISO	5G Band SISO		
	(20M Band)	(40M Band)	(20M Band)	(40M Band)		
Equipment Type		Trans	ceiver			
Frequency of Operation	2412MHz - 2462MHz	2422MHz - 2452MHz	5180MHz - 5320MHz	5190MHz - 5310MHz		
			5745MHz - 5825MHz	5755MHz - 5795MHz		
Bandwidth & Channel	Bandwidth: 20MHz	Bandwidth: 40MHz	Bandwidth: 20MHz	Bandwidth: 40MHz		
spacing	Ch spacing: 5MHz	Ch spacing: 5MHz	Ch spacing: 20MHz	Ch spacing: 40MHz		
Type of Modulation		OF	DM			
Antenna Type		Pattern antenna	(Inverted L type)			
Antenna Gain	2412MHz - 246	2MHz: 1.55dBi	5180-5320M	Hz: -0.43dBi		
	5745-5825MHz: -1.87dBi					
Power Supply	DC 3.3V / 1.8V					
Operating temperature	0 to +40 deg. C.					
range						

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Page : 5 of 86

Issued date : December 22, 2011
Revised date : February 9, 2012
FCC ID : CGJ1148EA

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part 15 Subpart C: 2012, final revised on February 1, 2012

Title : FCC 47CFR Part15 Radio Frequency Device Subpart E

Unlicensed National Information Infrastructure Devices

Section 15.407 General technical requirements

*The revision on February 1, 2012 does not affect the test specification applied to the EUT.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

: 31IE0027-HO-01-B-R2 Test report No.

Page

: 6 of 86 **Issued date** : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

3.2 Procedures and results

Item	Test Procedure	Specification	Worst margin	Results	Remarks
Conducted Emission	FCC :ANSI C63.4:2003	FCC: 15.407(b)(6) / 15.207	QP 20.9dB, 0.53620MHz, N	Complied	
Conducted Emission	IC: RSS-Gen 7.2.4	IC: RSS-Gen 7.2.4	AV 11.5dB, 0.53620MHz, N	Complied	-
26dB Emission	FCC :ANSI C63.4:2003 KDB 789033 D01	FCC: 15.407(a)(1)(2)(3)		N/A	Conducted
Bandwidth	IC: -	IC: -			
Maximum Peak Output Power	FCC :ANSI C63.4:2003, KDB 789033 D01	FCC: 15.407(a)(1)(2)(3)		Complied	Conducted
	IC: -	IC: RSS-210 A9.2(1)(2)(3)			
Peak Power Spectral	FCC :ANSI C63.4:2003, KDB 789033 D01	FCC: 15.407(a)(1)(2)(3)	See data	Complied	Conducted
Density	IC: -	IC: RSS-210 A9.2(1)(2)(3)			Conducted
Peak Excursion Ratio	FCC :ANSI C63.4:2003, KDB 789033 D01	FCC: 15.407(a)(6)		Complied	Conducted
Teak Execusion Ratio	IC: -	IC: -		Compiled	Conducted
Pastricted Rand Edge	FCC: ANSI C63.4:2003	FCC: 15.407(b), 15.205 and 15.209	5.7dB 41.564MHz, QP, Vert.	Complied	Conducted / Radiated
	IC: -	IC: RSS-210 A.9.2(1)(2)(3)	41.504MHz, QP, Ven.	1	Kadiated

FCC 15.31 (e)

This EUT provides stable voltage (DC3.3/1.8V) constantly to RF Part regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because it is soldered on the circuit board. Therefore the equipment complies with the requirement of 15.203.

3.3 Addition to standard

Item	Test Procedure	Specification	Worst margin	Results	Remarks
99% Occupied	RSS-Gen 4.6.1	RSS-210 A9.2 (1)(2)(3)	N/A	N/A	Conducted
Band Width					

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

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

For DFS tests, please see the test report number 31IE0027-HO-01-C issued by UL Japan, Inc.

^{*}These tests were also referred to KDB 789033 D01 General UNII Test Procedures v01 "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E".

Page : 7 of 86

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

3.4 Uncertainty

EMI

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

Test room	Conducted emission
(semi-	(<u>+</u> dB)
anechoic	150kHz-30MHz
chamber)	
No.1	2.6dB
No.2	2.9dB
No.3	3.3dB
No.4	2.8dB

Test room (semi- anechoic	Radiated emission								
chamber)	$(3m^*)(\underline{+}dB) \qquad (1m^*)(\underline{+}dB) \qquad (0.5m^*)$						(0.5m*)(<u>+</u> dB)		
	9kHz	30MHz	300MHz	1GHz	10GHz	18GHz	26.5GHz		
	-30MHz	-300MHz	-1GHz	-10GHz	-18GHz	-26.5GHz	-40GHz		
No.1	2.9dB	4.8dB	5.0dB	3.9dB	4.3dB	4.5dB	4.3dB		
No.2	3.5dB	4.8dB	5.1dB	4.0dB	4.2dB	4.4dB	4.2dB		
No.3	3.8dB	4.6dB	4.7dB	4.0dB	4.2dB	4.5dB	4.2dB		
No.4	3.5dB	4.4dB	4.9dB	4.0dB	4.2dB	4.6dB	4.2dB		

^{*3}m/1m/0.5m = Measurement distance

Antenna terminal conducted emission			Antenna terminal	Channel power	
and Power density (<u>+</u> dB)		(<u>+</u> dB)		(<u>+</u> dB)	
Below 1GHz	1GHz-3GHz	3GHz-18GHz	18GHz-26.5GHz	26.5GHz-40GHz	
1.0dB	1.1dB	2.7dB	3.2dB	3.3dB	1.5dB

Conducted Emission test

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

Radiated emission test(3m)

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

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Page : 8 of 86

Issued date : December 22, 2011
Revised date : February 9, 2012
FCC ID : CGJ1148EA

3.5 Test Location

UL Japan, Inc. Head Office EMC Lab. *NVLAP Lab. code: 200572-0

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81 596 24 8116 Facsimile: +81 596 24 8124

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

^{*} Size of vertical conducting plane (for Conducted Emission test): 2.0 x 2.0m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

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

Refer to APPENDIX.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

: 31IE0027-HO-01-B-R2 Test report No. : 9 of 86

Page

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

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

4.1 **Operating Modes**

Test operating mode was determined as follows according to "Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals - " of TCB Council Workshop October 2009.

Mode	Remarks*		
IEEE 802.11a (11a)	6Mbps, PN9		
IEEE 802.11n SISO 20MHz BW (11n-20)	MCS 0, PN9		
IEEE 802.11n SISO 40MHz BW (11n-40)	MCS 0, PN9		
*The worst condition was determined based on the test result of Maximum Peak Output Power (Mid Channel).			

^{*}Power of the EUT was set by the software as follows:

Power settings: 12dBm (Min power: 8dBm)

Software name & version: Dut Bridge Labtool Version 1.0.5.38

*Details of Operating mode(s)

Test Item	Operating Mode	Tested Frequency		
		Low	Middle	
		Band	Band	
Conducted emission	11a Tx *1)	5240M	Hz *1)	
Spurious Emission (Radiated)	11a Tx	5180	MHz	
	11n-20 Tx	5240	MHz	
		5320MHz		
	11n-40 Tx	5190	MHz	
		5230MHz		
		5270	MHz	
		5310	MHz	
26dB Emission Bandwidth,	11a Tx	5180MHz	5260MHz	
99% Occupied Bandwidth,	11n-20 Tx	5220MHz	5300MHz	
Maximum Peak Output Power,		5240MHz 5320MHz		
Peak Power Spectral Density,				
Spurious Emission (Conducted)	11n-40 Tx	5190MHz	5270MHz	
Peak Excursion Ratio		5230MHz	5310MHz	

^{*1)} The mode was tested as a representative, because it had the highest power at antenna terminal test and the noise levels at the mode/tested frequencies were equivalent to those of other modes/tested frequencies.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

^{*} Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.

: 31IE0027-HO-01-B-R2 Test report No. : 10 of 86

Page

Issued date

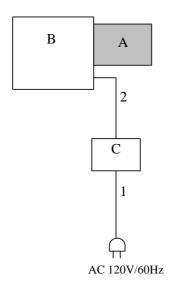
FCC ID

Revised date

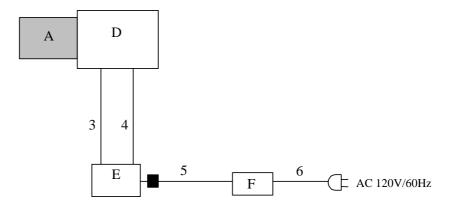
: December 22, 2011 : February 9, 2012 : CGJ1148EA

4.2 Configuration and peripherals

[Conducted Emission test]



[Except for Conducted Emission test]



: Standard Ferrite Core

UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

^{*} Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Page : 11 of 86

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

Description of EUT

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Wireless Transmitter	WT-5A	15800106S *1) 15800103S *2)	Nikon	EUT
В	Digital Camera	D3	36	Nikon	-
C	AC Adapter	EH-6b	2	Nikon	-
D	Jig	-	-	Nikon	-
E	Laptop PC	7661-CB9	L3-Y3936	lenovo	-
F	AC Adapter	92P1156	11S92P1156Z1ZDXN85 M5PY	lenovo	-

^{*1)} Used for Conducted Emission and Radiated Spurious Emission tests.

List of cables used

No.	Name	Length (m)	Shi	Remarks	
			Cable	Connector	
1	AC Cable	1.4	Unshielded	Unshielded	-
2	DC Cable	1.6	Unshielded	Unshielded	-
3	USB Cable	1.6	Shielded	Shielded	-
4	LAN Cable	1.6	Unshielded	Unshielded	-
5	DC Cable	1.8	Unshielded	Unshielded	-
6	AC Cable	1.0	Unshielded	Unshielded	-

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

^{*2)} Used for all tests except for Conducted Emission and Radiated Spurious Emission tests.

Page : 12 of 86

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

SECTION 5: Conducted Emission

Test Procedure

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

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

I/O cable and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

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

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Detector : QP and AV
Measurement range : 0.15-30MHz
Test data : APPENDIX
Test result : Pass

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Page : 13 of 86

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

SECTION 6: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

EUT was placed on a urethane platform of nominal size, 0.5m by 1.0m, raised 0.8m above the conducting ground plane.

The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

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

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

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

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

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

Below 1GHz

The result also satisfied with the general limits specified in section 15.209(a).

Above 1GHz

Inside of restricted bands(Section 15.205): Apply to limit in the Section 15.209(a).

Outside of the restricted bands: Apply to limit 68.2dBuV/m(-27dBm e.i.r.p.*)

in the Section 15.407(b)(1)(2)(3).

Restricted bandedge: Apply to limit in the Section 15.209(a).

$$E = \frac{1000000\sqrt{30P}}{3} \text{ (uV/m)} \qquad :P \text{ is the e.i.r.p. (Watts)}$$

Test Antennas are used as below;

Frequency	Below 30MHz	30MHz to 300MHz	300MHz to 1GHz	Above 1GHz
Antenna Type	Loop	Biconical	Logperiodic	Horn

Frequency	Below 1GHz	Above 1GHz	Above 1GHz			
Instrument used	Test Receiver	Spectrum Analyzer	Spectrum Analyzer			
Detector	QP	PK	AV			
IF Bandwidth	BW 120kHz(T/R)	RBW: 1MHz	RBW: 1MHz			
		VBW: 3MHz	VBW: 10Hz*1)			
Test Distance	3m	3m (below 10GHz),	3m (below 10GHz),			
		1m*2) (above 10GHz	z),			
		0.5m*3) (above 26.5c)	GHz)			

^{*1)} The test was performed with VBW 10Hz since the EUT had no intervals during which the transmitter was off (see Appendix).

*2) Distance Factor: 20 x log (3.0m/1.0m) = 9.5dB *3) Distance Factor: 20 x log (3.0m/0.5m) = 15.6dB

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

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Measurement range : 30M-40GHz
Test data : APPENDIX
Test result : Pass

UL Japan, Inc.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

^{*}Electric Field Strength to e.i.r.p. Conversion

Page : 14 of 86

Issued date : December 22, 2011 Revised date : February 9, 2012 FCC ID : CGJ1148EA

SECTION 7: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port with Spectrum Analyzer.

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Remarks
26dB Bandwidth	30MHz, 60MHz	Close to 1%	Greater than	Auto	Peak	Max Hold	-
		of EBW	RBW				
99% Occupied	Enough width to display	Close to 1%	Three times	Auto	Peak	Max Hold	-
Bandwidth	20dB Bandwidth	of Span	of RBW				
Maximum Peak	48MHz / 98MHz	1MHz	3MHz	Auto	Sample	Clear Write	method SA-1
Output Power					Power Averaging		
					(100 times)		
Peak Power Spectral	48MHz / 98MHz	1MHz	3MHz	Auto	Sample	Clear Write	method SA-1
Density					Power Averaging		
					(100 times)		
Peak Excursion Ratio	Enough width to display	1MHz	3MHz	Auto	Peak	Max Hold] -
	Emission Bandwidth				Sample	Clear Write	
					Power Averaging		
					(100 times)		
Conducted Spurious	Range: 9kHz-150kHz	200Hz	620Hz	Auto	Peak	Max Hold	-
Emission *1)	Range: 150kHz-30MHz	9.1kHz	27kHz				
	Range: 30MHz-1GHz	100kHz	300kHz				
	Range: 1GHz-40GHz	1MHz	3MHz				
	(Less or equal to 5GHz)						

^{*1)} In the frequency range below 30MHz, RBW was narrowed to separate the noise contents.

The test results and limit are rounded off to two decimals place, so some differences might be observed.

Test data : APPENDIX

Test result : Pass

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Then, wide-band noise near the limit was checked separately, however the noise was not detected as shown in the chart.

^{*}EBW: Enough width to display Bandwidth