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Radio lest Report
FCC ID: IFA-NU11
This report concerns (check one) : Criginal Grant Class I Change
Issued Date: Dec. 25, 2008Project No.: R0812004Equipment: Wireless 11n USB AdapterModel Name: NU11; NU11/Y
Applicant : Aceex Corporation
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Tested by: Neutron Engineering Inc. EMC Laboratory Date of Test: Dec. 11, 2008 ~ Dec. 24, 2008
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Report No.: NEI-FCCP-1-R0812004



Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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1. CERTIFICATION

Equipment: Wireless 11n USB Adapter Brand Name: ACEEX Model No.: NU11; NU11/Y Applicant: Aceex Corporation Date of Test: Dec. 11, 2008 ~ Dec. 24, 2008 Standards: FCC Part15, Subpart C / ANCI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-R0812004) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (c)	Antenna conducted Spurious Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS01** at the location of No.132-1, Lane 329, Sec. 2, Palian Road, Shijr City, Taipei, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately 95 % \circ

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Н	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless 11n USB Adapter		
Brand Name	ACEEX		
Model Name	NU11; NU11/Y		
OEM Brand/Model No.	NET ZEN / NW-U150		
Model Difference	Model NU11/Y; NW-U150 are identical to model NU11 except the model designation.		
Product Description	The EUT is an Wireless 11n USB Adapter.Operation2412~2462MHzFrequency:802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM(1 TX & 1 RX)Bit Rate of802.11b: 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to +150 Mbps 802.11n up to +150 MbpsNumber11CH .Please see Note 2.OfChannel:AntennaPlease see Note 4.Designation:802.11b:20.82 dBm (PK Max.) 802.11b:18.01 dBm (AV Max.) 802.11g:23.74 dBm (PK Max.) 802.11n(20MHz):23.47dBm(PK Max.) 802.11n(20MHz):23.02dBm(PK Max.) 802.11n(40MHz):23.02dBm(PK Max.) 802.11n(40MHz):15.33dBm(AV Max.)		
Channel List	Please refer to the Note 3.		
Power Source	Supplied from PC USB port.		
Power Rating	DC 5V, 500mA		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. The EUT is a 1 (TX) x 1 (RX) SISO device.
- 3. CH 01 CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)

		- /			
		Chanr	nel List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

4. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	3.53

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11
Mode 2	802.11g/CH01, CH06, CH11
Mode 3	802.11n/20M/CH01, CH06, CH11
Mode 4	802.11n/40M/CH03, CH6, CH9

	For Conducted Test
Final Test Mode	Description
Mode 1	802.11b/CH06

	For Radiated Test (30 – 1000 MHz)
Final Test Mode	Description
Mode 1	802.11b/CH06

For Radiated Test (Above 1000 MHz)				
Final Test Mode	Description			
Mode 1	802.11b/CH01, CH06, CH11			
Mode 2	802.11g/CH01, CH06, CH11			
Mode 3	802.11n/20M/CH01, CH06, CH11			
Mode 4	802.11n/40M/CH03, CH6, CH9			





3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Wireless 11n USB Adapter	ACEEX	NU11	IFA-NU11	N/A	EUT
E-2	Notebook PC	DELL	D600	DOC	7T390 A03	
E-3	USB Mouse	IBM	MO28UO	DOC	23-271883	
E-4	Modem	ACEEX	DM-1414V	DOC	8041708	
E-5	Printer	HP	C9025A	DOC	TH4B013021	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.7M	
C-2	YES	NO	1.8M	
C-3	YES	NO	1.7M	

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in ^[]Length ^[] column.



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	Class A	(dBuV)	Class B	Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	SR03_C_01&02	N/A	Oct. 19, 2009
2	LISN (SR03)	EMCO	3816/2	00042991	Jan. 29, 2009
3	Pulse Limiter	Electro-Metrics	EM-7600	112647	Oct. 08, 2009
4	50Ω Terminator	N/A	N/A	N/A	May 13, 2009
5	EMI Test Receiver	R&S	ESCI	100082	Mar. 23, 2009
6	LISN	EMCO	4825/2	00028234	Jul. 09, 2009

Remark: " N/A" denotes No Model No. , Serial No. or No Calibration specified.



4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP





4.1.6 EUT OPERATING CONDITIONS

The EUT exercise program (EMC.exe) used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read (write) from (to) mass storage device (Disk).

2. Send "H" pattern to video port device (LCD Panel).

3. Send " H " pattern to parallel port device (Printer).

4. Send " H " pattern to serial port device (Modem).

5. The EUT has been programmed to continuously transmit during test.

6. Repeated from 2 to 5 continuously.

As the keyboard and mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

4.1.7 TEST RESULTS

E.U.T :	Wireless 11n USB Adapter	Model Name :	NU11
Temperature :	26°C	Relative Humidity :	58%
Test Voltage :	AC 120V/60Hz		
Test Mode :	NORMAL LINK		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.26	Line	42.49	*	61.57	51.57	-19.08	(QP)
0.57	Line	40.79	*	56.00	46.00	-15.21	(QP)
1.09	Line	39.02	*	56.00	46.00	-16.98	(QP)
1.65	Line	39.44	*	56.00	46.00	-16.56	(QP)
2.95	Line	37.32	*	56.00	46.00	-18.68	(QP)
8.30	Line	43.84	*	60.00	50.00	-16.16	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of "Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform \circ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured \circ
- (3) Measuring frequency range from 150KHz to 30MHz \circ





E.U.T :	Wireless 11n USB Adapter	Model Name :	NU11
Temperature :	26°C	Relative Humidity :	58%
Test Voltage :	AC 120V/60Hz		
Test Mode :	NORMAL LINK		

Freq.	Terminal	Measure	ed(dBuV)	Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.30	Neutral	45.16	*	60.37	50.37	-15.21	(QP)
0.50	Neutral	42.87	*	56.06	46.06	-13.19	(QP)
0.58	Neutral	43.07	*	56.00	46.00	-12.93	(QP)
0.73	Neutral	43.07	*	56.00	46.00	-12.93	(QP)
1.09	Neutral	40.17	*	56.00	46.00	-15.83	(QP)
8.40	Neutral	43.45	*	60.00	50.00	-16.55	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of ^ℂNote_⊥. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "*" marked in AVG Mode column of Interference Voltage Measured ∘
- (3) Measuring frequency range from 150KHz to 30MHz \circ





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 24, 2009
2	Test Cable	N/A	10M_OS01	N/A	Oct. 20, 2009
3	Test Cable	N/A	3M_OS01	N/A	Oct. 08, 2009
4	Test Cable	N/A	OS01-1/-2	N/A	Oct. 08, 2009
5	Pre-Amplifier	Anritsu	MH648A(OS01)	M09961	Oct. 08, 2009
6	Positioning Controller (OS01)	MF	MF7802	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
8	Spectrum Analyzer	HP	8591EM	3536A00681010	Mar. 13, 2009
9	EMI Measuring Receiver	SHCAFFNER	SCR 3501	408	Nov.24.2009
10	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009
11	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-546	May 27, 2009
12	Microwave Pre_amplifier	Agilent	8449B	3008A02331	Jan. 15, 2009
13	Microflex Cable	NA	NA	1m	Sep. 15, 2009
14	Microflex Cable	NA	NA	10M	Feb. 20, 2009

4.2.2 MEASUREMENT INSTRUMENTS LIST

Remark: " N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.2.3 TEST PROCEDURE

- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ

22.89

23.67

-									
EUT :		Wireless 11n US	SB Adapter	Model No. :	NU11				
Temperatur	e:	22°C		Relative Humidity: 75%					
Test Voltage	e:	AC 120V/60Hz	2 120V/60Hz						
Test Mode	:	802.11b/CH06)2.11b/CH06						
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note		
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
249.22	V	36.97	-2.69	34.28	46.00	- 11.72			
336.52	V	34.34	0.19	34.53	46.00	- 11.47			
365.62	V	38.39	1.85	40.24	46.00	- 5.76			
499.48	V	31.21	4.77	35.98	46.00	- 10.02			

12.44

14.64

Remark :

991.06

998.06

V

V

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

35.33

38.31

54.00

54.00

- 18.67

15.69

- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	22°C	Relative Humidity :	75%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
336.52	Н	33.69	0.19	33.88	46.00	- 12.12	
365.62	Н	33.92	1.85	35.77	46.00	- 10.23	
433.52	Н	30.66	4.17	34.83	46.00	- 11.17	
499.48	Н	29.25	4.77	34.02	46.00	- 11.98	
528.58	Н	27.91	5.24	33.15	46.00	- 12.85	
998.06	Н	22.45	14.64	37.09	54.00	- 16.91	

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of "Note ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency ° "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



4.2.8 TEST RESULTS - ABOVE 1000MHZ

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.78	13.55	32.57	56.35	46.12	74.00	54.00	X/H
2411.20	V	72.90	69.54	32.69	105.59	102.23			X/F
4823.96	V	48.33	45.38	4.04	52.37	49.42	74.00	54.00	X/H
7233.28	V	42.34	33.47	11.65	53.99	45.12	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	23.86	14.37	32.57	56.43	46.94	74.00	54.00	X/H
2411.20	Н	74.97	71.68	32.69	107.66	104.37			X/F
4823.96	Н	40.63	37.80	4.04	44.67	41.84	74.00	54.00	X/H
7237.96	Н	40.46	32.03	11.66	52.12	43.69	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.80	V	73.60	70.98	32.85	106.45	103.83			X/F
4873.96	V	48.31	45.74	4.29	52.60	50.03	74.00	54.00	X/H
7308.24	V	41.24	32.84	11.85	53.09	44.69	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.80	Н	76.28	73.40	32.85	109.13	106.25			X/F
4873.96	Н	42.80	38.95	4.29	47.09	43.24	74.00	54.00	X/H
7307.90	Н	40.21	31.19	11.85	52.06	43.04	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.80	V	73.14	70.39	32.99	106.13	103.38			X/F
2483.50	V	26.39	19.06	33.10	59.49	52.16	74.00	54.00	X/H
4923.97	V	48.11	45.27	4.54	52.65	49.81	74.00	54.00	X/H
7388.64	V	41.87	33.01	12.07	53.94	45.08	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2459.20	Н	76.39	73.82	32.96	109.35	106.78			X/F
2483.50	Н	29.92	20.58	33.10	63.02	53.68	74.00	54.00	X/H
4932.93	Н	41.69	34.47	4.53	46.22	39.00	74.00	54.00	X/H
7383.40	Н	40.27	31.27	12.05	52.32	43.32	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	91.00	19.19	32.57	123.57	51.76	74.00	54.00	X/H
2410.20	V	73.89	65.76	32.69	106.58	98.45			X/F
4823.60	V	48.47	35.58	4.04	52.51	39.62	74.00	54.00	X/H
7234.00	V	41.57	32.02	11.65	53.22	43.67	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.




EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	36.65	19.96	32.57	69.22	52.53	74.00	54.00	X/H
2410.20	Н	75.69	67.25	32.69	108.38	99.94			X/F
4823.60	Н	44.28	32.34	4.04	48.32	36.38	74.00	54.00	X/H
7236.60	Н	39.21	31.20	11.66	50.87	42.86	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.00	V	76.78	69.39	32.85	109.63	102.24			X/F
4874.60	V	49.87	36.78	4.29	54.16	41.07	74.00	54.00	X/H
7308.50	V	41.38	32.24	11.85	53.23	44.09	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of "Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2442.00	Н	77.76	69.45	32.87	110.63	102.32			X/F
4875.20	Н	44.65	32.37	4.30	48.95	36.67	74.00	54.00	X/H
7312.60	Н	40.56	31.84	11.86	52.42	43.70	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ\]$
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2460.40	V	75.87	67.50	32.97	108.84	100.47			X/F
2483.50	V	35.22	19.27	33.10	68.32	52.37	74.00	54.00	X/H
4924.60	V	49.14	35.87	4.54	53.68	40.41	74.00	54.00	X/H
7383.80	V	41.25	32.61	12.05	53.30	44.66	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2460.40	Н	77.56	68.87	32.97	110.53	101.84			X/F
2483.50	Н	36.22	19.84	33.10	69.32	52.94	74.00	54.00	X/H
4924.60	Н	44.27	32.07	4.54	48.81	36.61	74.00	54.00	X/H
7384.00	Н	40.38	31.24	12.05	52.43	43.29	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	34.14	18.21	32.57	66.71	50.78	74.00	54.00	X/H
2415.00	V	74.63	65.39	32.71	107.34	98.10			X/F
4827.20	V	46.00	33.40	4.06	50.06	37.46	74.00	54.00	X/H
7231.80	V	45.42	33.05	11.65	57.07	44.70	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of "Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	36.89	20.60	32.57	69.46	53.17	74.00	54.00	X/H
2413.40	Н	74.39	65.53	32.71	107.10	98.24			X/F
4826.60	Н	43.21	31.21	4.07	47.28	35.28	74.00	54.00	X/H
7236.60	Н	43.25	30.02	11.66	54.91	41.68	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.20	V	77.09	68.16	32.86	109.95	101.02			X/F
4874.60	V	48.62	35.27	4.29	52.91	39.56	74.00	54.00	X/H
7308.50	V	48.22	35.10	11.85	60.07	46.95	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of "Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.20	Н	77.93	68.73	32.86	110.79	101.59			X/F
4875.20	Н	43.50	31.25	4.30	47.80	35.55	74.00	54.00	X/H
7312.60	Н	42.17	30.98	11.86	54.03	42.84	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2459.40	V	75.16	66.45	32.96	108.12	99.41			X/F
2483.50	V	40.36	20.01	33.10	73.46	53.11	74.00	54.00	X/H
4924.60	V	45.56	32.04	4.54	50.10	36.58	74.00	54.00	X/H
7383.80	V	43.79	31.78	12.05	55.84	43.83	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.80	Н	77.09	68.09	32.99	110.08	101.08			X/F
2483.50	Н	39.83	20.58	33.10	72.93	53.68	74.00	54.00	X/H
4924.60	Н	41.18	29.11	4.54	45.72	33.65	74.00	54.00	X/H
7384.00	Н	42.29	30.03	12.05	54.34	42.08	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	34.58	19.55	32.57	67.15	52.12	74.00	54.00	X/H
2425.20	V	69.07	60.42	32.77	101.84	93.19			X/F
4841.20	V	41.53	30.10	4.13	45.66	34.23	74.00	54.00	X/H
7269.60	V	41.89	30.55	11.75	53.64	42.30	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	34.42	20.83	32.57	66.99	53.40	74.00	54.00	X/H
2431.20	Н	69.30	60.51	32.80	102.10	93.31			X/F
4840.00	Н	41.46	29.38	4.12	45.58	33.50	74.00	54.00	X/H
7261.20	Н	41.88	30.21	11.73	53.61	41.94	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2428.60	V	69.89	61.13	32.79	102.68	93.92			X/F
4873.60	V	43.34	32.52	4.29	47.63	36.81	74.00	54.00	X/H
7313.40	V	45.62	33.83	11.86	57.48	45.69	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of "Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.20	Н	71.80	63.20	32.90	104.70	96.10			X/F
4874.00	Н	42.38	30.02	4.29	46.67	34.31	74.00	54.00	X/H
7308.40	Н	43.21	30.46	11.85	55.06	42.31	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2449.20	V	70.86	62.08	32.91	103.77	94.99			X/F
2483.50	V	30.83	18.60	33.10	63.93	51.70	74.00	54.00	X/H
4906.40	V	42.20	30.97	4.45	46.65	35.42	74.00	54.00	X/H
7358.40	V	43.15	31.32	11.98	55.13	43.30	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.





EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2450.00	Н	71.43	63.03	32.91	104.34	95.94			X/F
2483.50	Н	33.42	20.48	33.10	66.52	53.58	74.00	54.00	X/H
4902.00	Н	42.36	29.89	4.43	46.79	34.32	74.00	54.00	X/H
7354.80	Н	42.03	29.86	11.97	54.00	41.83	74.00	54.00	X/H

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



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4.2.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS

EUT :	Wireless 11n USB Adapter	Model No. :	NU11					
Temperature :	18°C	Relative Humidity :	43%					
Test Voltage :	AC 120V/60Hz							
Test Mode :	802.11b(Vertical)							
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corto transmit at the lowest charmeasured at 2310-2390 MHz 2. The transmitter was configured transmit at the highest charmeasured at 2483.5-2500 M 	iated field strength is nfigured with the wor nnel (CH01). Then th z. ed with the worst cas nel (CH11). Then the Hz.	s measured for CH01/CH11 st case antenna and setup he field strength was se antenna and setup to field strength was					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.78	13.55	32.57	56.35	46.12	74.00	54.00	Х
2483.50	V	26.39	19.06	33.10	59.49	52.16	74.00	54.00	Х

Remark :

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:

"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand




EUT :	Wireless 11n USB Adapter	Model No. :	NU11					
Temperature :	18°C	Relative Humidity :	43%					
Test Voltage :	AC 120V/60Hz							
Test Mode :	802.11b(Horizontal)							
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corto transmit at the lowest charmeasured at 2310-2390 MHz 2. The transmitter was configured transmit at the highest channel measured at 2483.5-2500 M 	iated field strength is nfigured with the wor nnel (CH01). Then th z. ed with the worst can nel (CH11). Then the Hz.	s measured for CH01/CH11 st case antenna and setup he field strength was se antenna and setup to field strength was					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	23.86	14.37	32.57	56.43	46.94	74.00	54.00	Х
2483.50	Н	29.92	20.58	33.10	63.02	53.68	74.00	54.00	Х

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand





EUT :	Wireless 11n USB Adapter	Model No. :	NU11					
Temperature :	18°C	Relative Humidity :	43%					
Test Voltage :	AC 120V/60Hz							
Test Mode :	302.11g(Vertical)							
Note :	 The emission of the carrier rad (Peak and AV) as following: 1. The transmitter was then con to transmit at the lowest cha measured at 2310-2390 MH; 2. The transmitter was configur transmit at the highest chan measured at 2483.5-2500 M 	iated field strength is nfigured with the wor nnel (CH01). Then th z. red with the worst ca nel (CH11). Then the Hz.	s measured for CH01/CH11 est case antenna and setup ne field strength was se antenna and setup to field strength was					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	91.00	19.19	32.57	123.57	51.76	74.00	54.00	Х
2483.50	V	35.22	19.27	33.10	68.32	52.37	74.00	54.00	Х

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ

(3) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand





EUT :	Wireless 11n USB Adapter	Model No. :	NU11					
Temperature :	18°C	Relative Humidity :	43%					
Test Voltage :	AC 120V/60Hz							
Test Mode :	802.11g(Horizontal)							
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corto transmit at the lowest charmeasured at 2310-2390 MHz 2. The transmitter was configured transmit at the highest channel measured at 2483.5-2500 M 	iated field strength is nfigured with the wor nnel (CH01). Then th z. ed with the worst ca nel (CH11). Then the Hz.	s measured for CH01/CH11 st case antenna and setup he field strength was se antenna and setup to field strength was					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	36.65	19.96	32.57	69.22	52.53	74.00	54.00	Х
2483.50	Н	36.22	19.84	33.10	69.32	52.94	74.00	54.00	Х

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand





EUT :	Wireless 11n USB Adapter	Model No. :	NU11					
Temperature :	18°C	Relative Humidity :	43%					
Test Voltage :	AC 120V/60Hz							
Test Mode :	802.11n/20M(Vertical)							
Note :	 The emission of the carrier rad (Peak and AV) as following: 1. The transmitter was then control to transmit at the lowest char measured at 2310-2390 MH 2. The transmitter was configured transmit at the highest char measured at 2483.5-2500 MH 	diated field strength is onfigured with the wor annel (CH01). Then th dz. ured with the worst ca unel (CH11). Then the MHz.	s measured for CH01/CH11 est case antenna and setup ne field strength was se antenna and setup to field strength was					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	34.14	18.21	32.57	66.71	50.78	74.00	54.00	Х
2483.50	V	40.36	20.01	33.10	73.46	53.11	74.00	54.00	Х

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand





EUT:	Wireless 11n USB Adapter	Model No. :	NU11					
Temperature :	18°C	Relative Humidity :	43%					
Test Voltage :	AC 120V/60Hz							
Test Mode :	802.11n/20M(Horizontal)							
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corto transmit at the lowest charmeasured at 2310-2390 MHz 2. The transmitter was configured transmit at the highest channel measured at 2483.5-2500 M 	iated field strength is nfigured with the wor nnel (CH01). Then th z. ed with the worst cas nel (CH11). Then the Hz.	s measured for CH01/CH11 st case antenna and setup he field strength was se antenna and setup to field strength was					

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	36.89	20.60	32.57	69.46	53.17	74.00	54.00	Х
2483.50	Н	39.83	20.58	33.10	72.93	53.68	74.00	54.00	Х

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand





EUT :	Wireless 11n USB Adapter	Model No. :	NU11				
Temperature :	18°C	Relative Humidity :	43%				
Test Voltage :	AC 120V/60Hz						
Test Mode :	302.11n/40M(Vertical)						
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corto transmit at the lowest charmeasured at 2310-2390 MH; 2. The transmitter was configured transmit at the highest charmeasured at 2483.5-2500 M 	iated field strength is nfigured with the wor nnel (CH03). Then th z. red with the worst ca nel (CH09). Then the Hz.	s measured for CH03/CH09 st case antenna and setup he field strength was se antenna and setup to field strength was				

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	34.58	19.55	32.57	67.15	52.12	74.00	54.00	Х
2483.50	V	30.83	18.60	33.10	63.93	51.70	74.00	54.00	Х

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand





EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	18°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M(Horizontal)		
Note :	 The emission of the carrier radii (Peak and AV) as following: 1. The transmitter was then corto transmit at the lowest charmeasured at 2310-2390 MHz 2. The transmitter was configured transmit at the highest channel measured at 2483.5-2500 M 	iated field strength is nfigured with the wor nnel (CH03). Then th z. ed with the worst cas nel (CH09). Then the Hz.	measured for CH03/CH09 st case antenna and setup he field strength was se antenna and setup to field strength was

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	34.42	20.83	32.57	66.99	53.40	74.00	54.00	Х
2483.50	Н	33.42	20.48	33.10	66.52	53.58	74.00	54.00	Х

- (1) Spectrum Setting : 30MHz 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand



5. BANDWITH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C				
Test Item	Limit	Frequency Range (MHz)	Result	
Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSL-6	100257	Jul,02,2009

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.6 TEST RESULTS

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency	Bandwidth	LIMIT
	(MHz)	(MHz)	(MHz)
CH01	2412	11.10	>=500KHz
CH06	2437	12.06	>=500KHz
CH11	2462	12.14	>=500KHz





Date: 24.DEC.2008 13:56:29



Date: 24.DEC.2008 13:59:10

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency	Bandwidth	LIMIT
Test Onanner	(MHz)	(MHz)	(MHz)
CH01	2412	14.45	>=500KHz
CH06	2437	16.49	>=500KHz
CH11	2462	16.53	>=500KHz





Date: 23.DEC.2008 15:02:31



Date: 23.DEC.2008 15:05:44

EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11		

Test Channel	Frequency	Bandwidth	LIMIT
lest Channel	(MHz)	(MHz)	(MHz)
CH01	2412	17.69	>=500KHz
CH06	2437	17.73	>=500KHz
CH11	2462	17.65	>=500KHz





Date: 23.DEC.2008 15:16:21



Date: 23.DEC.2008 15:22:45

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09		

Test Channel	Frequency	Bandwidth	LIMIT
lest oridinie	(MHz)	(MHz)	(MHz)
CH03	2422	36.49	>=500KHz
CH06	2437	36.41	>=500KHz
CH09	2452	36.34	>=500KHz





Date: 23.DEC.2008 15:36:59



Date: 23.DEC.2008 15:43:07

6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C				
Test Item Limit Frequency Range Result (MHz)				
Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 12, 2009
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 12, 2009

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

6.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.6 TEST RESULTS

EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power	LIMIT (dBm)	LIMIT
CH01	2412	20.78	30	1
CH06	2437	20.75	30	1
CH11	2462	20.82	30	1

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency	Peak Output Power	LIMIT	LIMIT
	(MHz)	(dBm)	(dBm)	(W)
CH01	2412	23.18	30	1
CH06	2437	23.74	30	1
CH11	2462	23.34	30	1



EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH	11	

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	22.90	30	1
CH06	2437	23.47	30	1
CH11	2462	22.63	30	1

EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH	09	

Test Channel	Frequency	Peak Output Power	LIMIT	LIMIT
	(MHz)	(dBm)	(dBm)	(W)
CH03	2422	21.47	30	1
CH06	2437	23.02	30	1
CH09	2452	21.13	30	1

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C				
Test ItemLimitFrequency Range (MHz)Result				
Antenna conducted Spurious Emission	20dB less than the peak value of fundamental frequency	30-25000	PASS	

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSL-6	100257	Jul. 02, 2009

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.6 TEST RESULTS

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH11		

Channel of Worst Data: CH1,CH11						
The max. radio frequent bandwidth outside	cy power in any 100kHz the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)			
2386.41	-36.43	2488.291	-47.47			
Result						

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.



Date: 24.DEC.2008 13:54:15



Date: 23.DEC.2008 14:51:51

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH11		

Channel of Worst Data: CH1,CH11						
The max. radio frequent bandwidth outside	cy power in any 100kHz the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)			
2389.2	-40.26	2484.3	-47.17			
Result						

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.



Date: 23.DEC.2008 14:56:47


EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH11		

Channel of Worst Data: CH1,CH11				
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2389.6	-41.72	2483.9	-50.42	
Result				
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.				



Date: 23.DEC.2008 15:13:23



Date: 23.DEC.2008 15:24:41

EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH09		

Channel of Worst Data: CH03,CH09				
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kH bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2388.4	-38.59	2489.89	-42.87	
	Re	sult		
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power				
u				



Date: 23.DEC.2008 15:31:16



Date: 23.DEC.2008 15:44:36

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C				
Test Item	Limit	Frequency Range (MHz)	Result	
Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSL-6	100257	Jul. 02, 2009

Remark: " N/A" denotes No Model No., Serial No. or No Calibration specified.

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW=3KHz, VBW=30KHz, Sweep time = 500s.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.6 TEST RESULTS

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency	Power Density	LIMIT
Test Onanner	(MHz)	(dBm)	(dBm)
CH01	2412	-12.04	8
CH06	2437	-12.89	8
CH11	2462	-12.87	8





Date: 24.DEC.2008 14:45:06



Date: 23.DEC.2008 14:24:19

EUT :	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency	Power Density	LIMIT
	(MHz)	(dBm)	(dBm)
CH01	2412	-12.80	8
CH06	2437	-12.07	8
CH11	2462	-14.69	8







EUT:	Wireless 11n USB Adapter	Model No. :	NU11
Temperature :	27 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH	11	

Test Channel	Frequency	Power Density	LIMIT
iest onannei	(MHz)	(dBm)	(dBm)
CH01	2412	-12.34	8
CH06	2437	-12.05	8
CH11	2462	-14.09	8





Date: 23.DEC.2008 15:17:20



EUT:	Wireless 11n USB Adapter	Model No. :	NU11	
Temperature :	27 ℃	Relative Humidity:	55 %	
Test Voltage :	AC 120V/60Hz			
Test Mode :	802.11n/40M/CH03, CH06, CH09			

Test Channel	Frequency	Power Density	LIMIT
lest channel	(MHz)	(dBm)	(dBm)
CH03	2422	-19.30	8
CH06	2437	-16.25	8
CH09	2452	-20.33	8





Date: 23.DEC.2008 15:35:17



Date: 23.DEC.2008 15:46:31