

# FCC Radio Test Report FCC ID: T58WF2120R

This report concerns (check one) : Original Grant Class II Change

Issued Date : Apr. 10, 2012 Project No. : 1203C242

**Equipment**: 150Mbps NANO Wireless-N USB Adapter

Model Name: WF2120

**Applicant**: NETIS SYSTEMS CO., LTD.

Address: 9F,B Block, Tsinghua Information Park, High-tech

Industrial Park, Nanshan, Shenzhen, China

Manufacturer: Shenzhen Netcore Industrial Ltd.

Address: 9F,B Block, Tsinghua Information Park, High-tech

Industrial Park, Nanshan, Shenzhen, China

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Mar. 28, 2012

Date of Test:

Mar. 28, 2012 ~ Apr. 09, 2012

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## **Declaration**

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#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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# 1. CERTIFICATION

Equipment: 150Mbps NANO Wireless-N USB Adapter

Brand Name: netis Model Name: WF2120

Applicant: NETIS SYSTEMS CO., LTD.

F a c t o r y: Dongguan City Netcore Network Technology Co.,Ltd.

A d d r e s s: No.10-1,Sankeng Road,Qinghutou,Tangxia Town,Dongguan City

Date of Test: Mar. 28, 2012 ~ Apr. 09, 2012 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

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-1-1203C242) 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).

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247(d)	Antenna conducted Spurious Emission	PASS				
15.247(a)(2)	6dB Bandwidth	PASS				
15.247(b)(3)	Peak Output Power	PASS				
15.209/15.205	Radiated Spurious Emission	PASS				
15.247(e)	Power Spectral Density	PASS				
15.203	Antenna Requirement	PASS				

# NOTE:

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

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## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C01/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number is 319330

# 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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%.

# A. Conducted Measurement:

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

## B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	

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# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	150Mbps NANO Wireless-N USB Adapter			
Brand Name	netis			
Model Name	WF2120			
OEM Brand/Model Name	N/A			
Model Difference	N/A			
Product Description	The EUT is a 150Mbps NOperation Frequency: Modulation Technology:  Bit Rate of Transmitter  Number of Channel  Antenna Designation: Antenna Gain(Peak) Peak Output Power:  Average Output power	ANO Wireless-N USB Adapter.  2412~2462 MHz  802.11b:DSSS 802.11g:OFDM 802.11n:OFDM  802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps Draft 802.11n:up to 150Mbps  11 CH, Please see Note 2. (please see page 9) Please see Page 9) Please see page 9) 802.11b: 15.22dBm 802.11b: 15.22dBm 802.11g: 22.34dBm 802.11n(20MHz): 21.96dBm 802.11n(40MHz): 22.30 dBm 802.11b: 11.90dBm 802.11g: 11.91dBm 802.11g: 11.91dBm 802.11n(20MHz): 11.88dBm 802.11n(20MHz): 11.88dBm 802.11n(20MHz): 11.94dBm		
	ITE/Computing Device. More details of EUT techni specification, please refer to the User's Manual.			
Power Source	DC voltage supplied from			
Power Rating	I/P: AC 120V/60Hz O/P	P:DC 5V		

# Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)

**Channel List** 

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Integral	N/A	0

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#### 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 Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	Normal Link

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Conducted Test				
Final Test Mode	Description			
Mode 5	Normal Link			

For Radiated Test				
Final Test Mode	Description			
Mode 1	TX B MODE CHANNEL 01/06/11			
Mode 2	TX G MODE CHANNEL 01/06/11			
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11			
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09			

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) During the output power test, all data rates have been investigated and the highest output powers were recorded are as follows:

802.11b mode: DBPSK (1Mbps) 802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (6.5Mbps) 802.11n HT40 mode : BPSK (13.5Mbps)

For radiated emission tests, the highest output powers were set for final test.

(3) The EUT was pre-tested on positioned of each 3 axis. The worst cas was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

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# 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

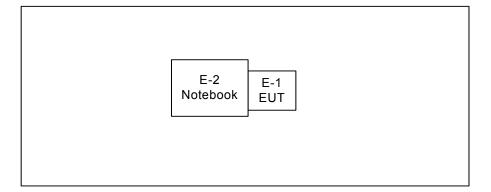
Test software Version	REALTEK		
Frequency	2412 MHz	2472 MHz	
IEEE 802.11b DSSS	46	46	46
IEEE 802.11g OFDM	56	56	56

Test software Version	REALTEK		
Frequency (MHz)	2412 MHz 2442 MHz 2472 MHz		
IEEE 802.11n (20MHz)	57	57	57
Frequency (MHz)	2412 MHz	2442 MHz	2472 MHz
IEEE 802.11n (40MHz)	58	58	58

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# 3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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# 3.5 DESCRIPTION OF SUPPORT UNITS (RADIATED MODE)

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	150Mbps NANO Wireless-N USB Adapter	netis	WF2120	T58WF2120R	N/A	EUT
E-2	Notebook	HP	NB 331	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note

# 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 <code>"Length\_"</code> column.

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# 4. EMC EMISSION TEST

## 4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCT (IVITIZ)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

#### 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 AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	LISN	EMCO	3816/2SH	00052766	May.26.2011	May.26.2012
2	LISN	R&S	ENV216	100526	May.26.2011	May.26.2012
3	Test Cable	N/A	RG400 12m	N/A	Mar.18.2012	Mar.18.2013
4	EMI TEST RECEIVER	R&S	ESCI	100895	May.26.2011	May.26.2012
5	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2011	May.26.2012

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

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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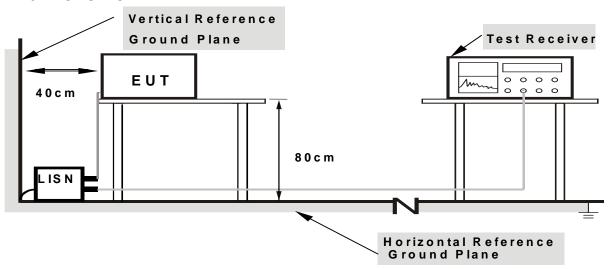
## **4.1.3 TEST PROCEDURE**

- 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



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

## 4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting mode.

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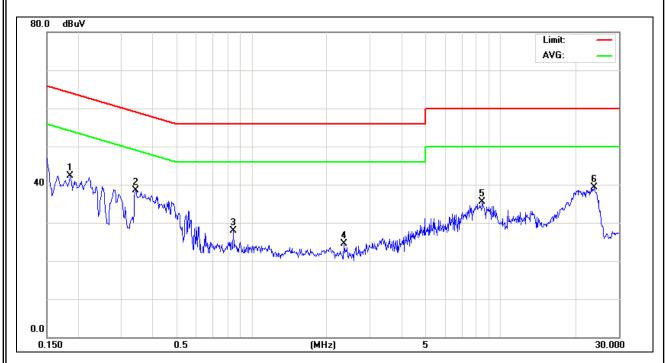
# 4.1.7 TEST RESULTS

EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	50%
Pressure:	1010hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link		

Freq.	Terminal	Measure	d(dBuV)	Limits	(dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.19	Line	42.36	*	64.24	54.24	-21.88	(QP)
0.34	Line	38.60	*	59.18	49.18	-20.58	(QP)
0.84	Line	27.98	*	56.00	46.00	-28.02	(QP)
2.35	Line	24.57	*	56.00	46.00	-31.43	(QP)
8.46	Line	35.51	*	60.00	50.00	-24.49	(QP)
23.89	Line	39.39	*	60.00	50.00	-20.61	(QP)

# Remark

- (1) 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. In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



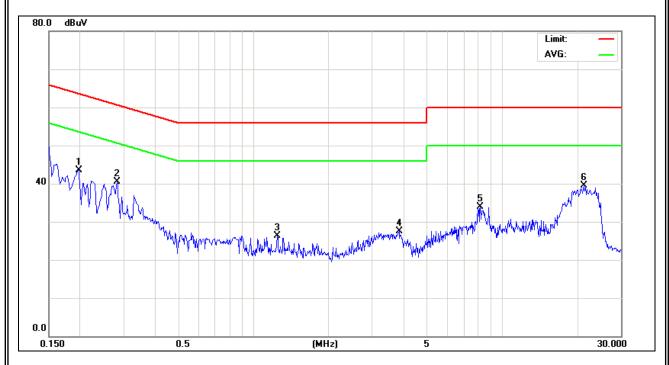
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EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	25 ℃	Relative Humidity:	50%
Pressure:	1010hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link		

Freq.	Terminal	Measure	d(dBuV)	Limits	(dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.20	Neutral	43.41	*	63.72	53.72	-20.31	(QP)
0.28	Neutral	40.59	*	60.77	50.77	-20.18	(QP)
1.24	Neutral	26.36	*	56.00	46.00	-29.64	(QP)
3.84	Neutral	27.51	*	56.00	46.00	-28.49	(QP)
8.15	Neutral	33.91	*	60.00	50.00	-26.09	(QP)
21.26	Neutral	39.60	*	60.00	50.00	-20.40	(QP)

- (1) 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. In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



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## **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 on 15.205(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)

FREQUENCY (MHz)	(dBuV/m) (at 3m)		
FREQUENCY (WITZ)	PEAK	AVERAGE	
Above 1000	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).

# FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

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# 4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Antenna	Schwarbeck	VULB9160	9160-3232	Jun .04.2011	Jun .04.2012
2	Amplifier	HP	8447D	2944A09673	May.26.2011	May.26.2012
3	Test Receiver	R&S	ESCI	100382	May.26.2011	May.26.2012
4	Test Cable	N/A	C-01_CB03	N/A	Jul.01.2011	Jul.01.2012
5	Antenna	ETS	3115	00075789	May.26.2011	May.26.2012
6	Amplifier	Agilent	8449B	3008A02274	May.26.2011	May.26.2012
7	Spectrum	Agilent	E4408B	US39240143	Nov.25.2011	Nov.26.2012
8	Test Cable	HUBER+SUH NER	C-45	N/A	May.04.2011	May.04.2012
9	Controller	СТ	SC100	N/A	N/A	N/A
10	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.26.2011	May.26.2012
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.13.2011	Oct.13.2012

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

Spectrum Parameter	Setting			
Attenuation	Auto			
Start Frequency	1000 MHz			
Stop Frequency	10th carrier harmonic			
RB / VB	ANALIS / ANALIS for Dook A MILE / AOLIS for Average			
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average			

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector		
Start ~ Stop Frequency	90kHz~110kHz for QP detector		
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector		
Start ~ Stop Frequency	490kHz~30MHz for QP detector		
Start ~ Stop Frequency	30MHz~1000MHz for QP detector		

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## **4.2.3 TEST PROCEDURE**

- a. The measuring distance of at 3 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 3 meter semi-anechoic chamber. 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	4.2.4 DEVIATION FROM TEST STANDAR	D
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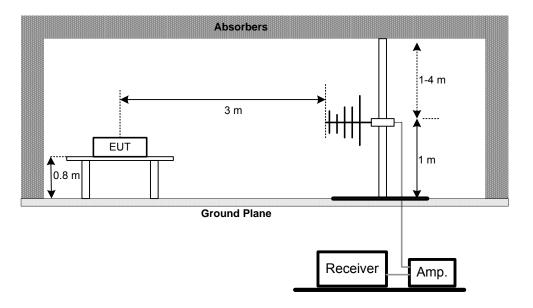
No deviation

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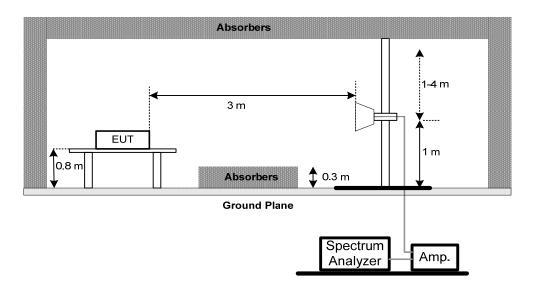


# 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



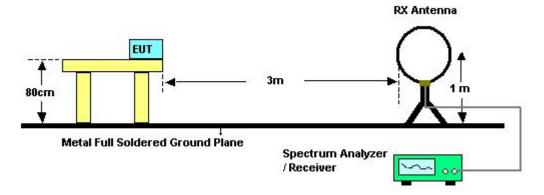
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



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(C) For radiated emissions below 30MHz



# **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.

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# 4.2.7 TEST RESULTS (BELOW 30MHZ)

EUT:	Wireless(Receiver)	Model Name :	SW-R
Temperature:	<b>25</b> ℃	Relative Humidity:	53 %
Pressure:	1009 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX Mode		

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.01	0°	18.22	24.30	42.52	124.95	-82.43	AVG
0.01	0°	21.49	24.30	45.79	144.95	-99.16	PK
0.03	0°	18.42	23.93	42.35	119.35	-77.00	AVG
0.03	0°	21.77	23.93	45.70	139.35	-93.65	PK
0.04	0°	17.69	23.16	40.85	116.02	-75.17	AVG
0.04	0°	21.08	23.16	44.24	136.02	-91.78	PK
0.07	0°	18.42	22.00	40.42	110.73	-70.30	AVG
0.07	0°	22.07	22.00	44.07	130.73	-86.65	PK
0.29	0°	18.57	20.30	38.87	98.37	-59.49	AVG
0.29	0°	21.72	20.30	42.02	118.37	-76.34	PK
1.47	0°	22.89	19.55	42.44	64.27	-21.83	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
0.01	90°	19.45	24.30	43.75	125.62	-81.87	AVG
0.01	90°	21.36	24.30	45.66	145.62	-99.96	PK
0.02	90°	18.72	23.99	42.71	119.70	-76.98	AVG
0.02	90°	21.67	23.99	45.66	139.70	-94.03	PK
0.03	90°	19.05	23.35	42.40	116.74	-74.34	AVG
0.03	90°	21.58	23.35	44.93	136.74	-91.81	PK
0.06	90°	19.02	22.12	41.14	111.51	-70.36	AVG
0.06	90°	21.46	22.12	43.58	131.51	-87.92	PK
0.30	90°	18.67	20.29	38.96	98.18	-59.22	AVG
0.30	90°	21.82	20.29	42.11	118.18	-76.07	PK
1.57	90°	22.55	19.54	42.09	63.67	-21.58	QP

## Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported  $\circ$
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB); •
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. •

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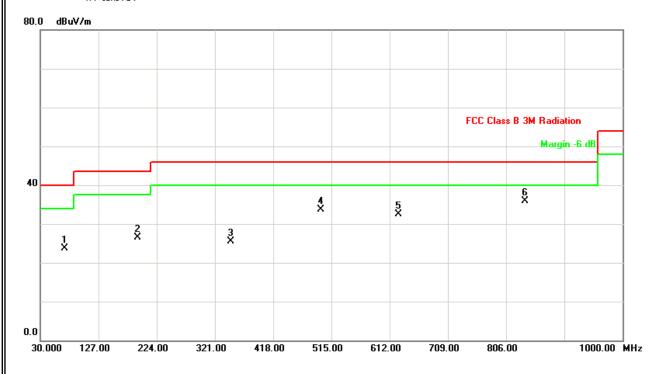
# 4.2.8 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>24</b> ℃	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CHANNEL 01		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
71.23	V	42.16	-18.46	23.70	40.00	- 16.30	
192.48	V	43.24	-16.69	26.55	43.50	- 16.95	
347.68	V	36.44	-10.90	25.54	46.00	- 20.46	
498.03	V	41.01	-7.39	33.62	46.00	- 12.38	
626.55	V	36.34	-3.77	32.57	46.00	- 13.43	
837.53	V	36.94	-1.12	35.82	46.00	- 10.18	

#### Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (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.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

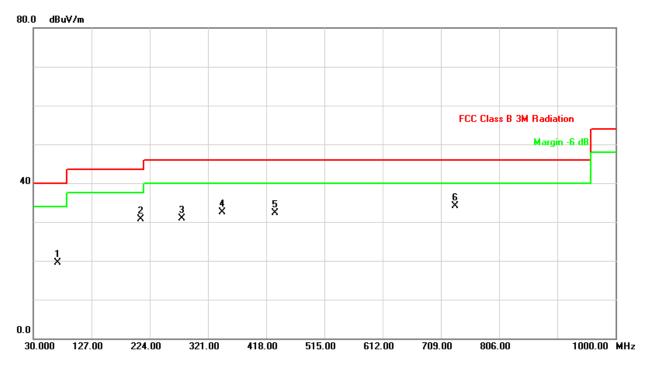


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EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>24</b> ℃	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CHANNEL 01		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
71.23	Н	37.92	-18.46	19.46	40.00	- 20.54	
209.45	Η	47.01	-16.33	30.68	43.50	- 12.82	
277.35	Η	43.68	-12.81	30.87	46.00	- 15.13	
345.25	Η	43.49	-10.96	32.53	46.00	- 13.47	
432.55	Н	40.64	-8.43	32.21	46.00	- 13.79	
733.25	Н	36.92	-2.77	34.15	46.00	- 11.85	

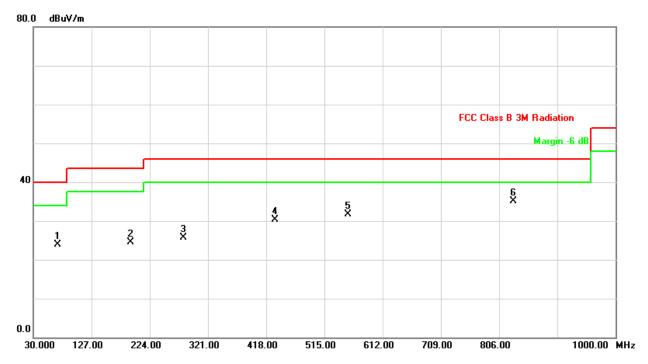
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>24</b> ℃	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CHANNEL 06		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
71.23	V	42.30	-18.46	23.84	40.00	- 16.16	
192.48	V	41.15	-16.69	24.46	43.50	- 19.04	
279.78	V	38.41	-12.66	25.75	46.00	- 20.25	
432.55	V	38.80	-8.43	30.37	46.00	- 15.63	
553.80	V	37.18	-5.39	31.79	46.00	- 14.21	
830.25	V	36.35	-1.27	35.08	46.00	- 10.92	

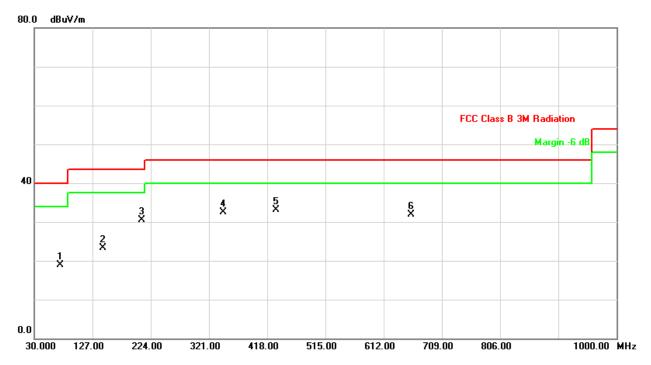
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>24</b> ℃	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CHANNEL 06		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
73.65	Η	37.58	-18.69	18.89	40.00	- 21.11	
143.98	Н	40.99	-17.66	23.33	43.50	- 20.17	
209.45	Η	46.90	-16.33	30.57	43.50	- 12.93	
345.25	Н	43.44	-10.96	32.48	46.00	- 13.52	
432.55	Ι	41.54	-8.43	33.11	46.00	- 12.89	
658.08	Н	35.27	-3.30	31.97	46.00	- 14.03	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (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.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

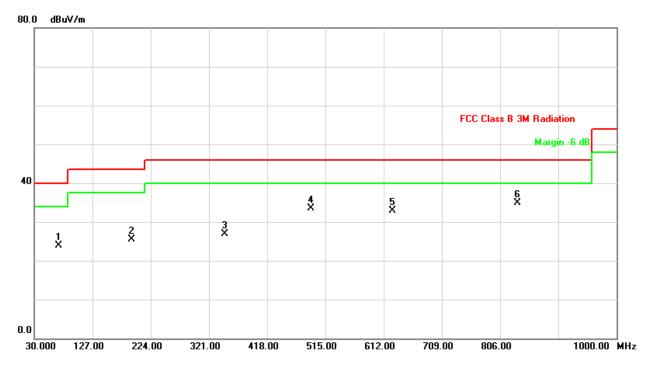


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EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>24</b> ℃	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CHANNEL 11		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
71.23	V	42.39	-18.46	23.93	40.00	- 16.07	
192.48	V	42.25	-16.69	25.56	43.50	- 17.94	
347.68	V	37.79	-10.90	26.89	46.00	- 19.11	
490.75	V	41.08	-7.50	33.58	46.00	- 12.42	
626.55	V	36.67	-3.77	32.90	46.00	- 13.10	
835.10	V	35.98	-1.17	34.81	46.00	- 11.19	

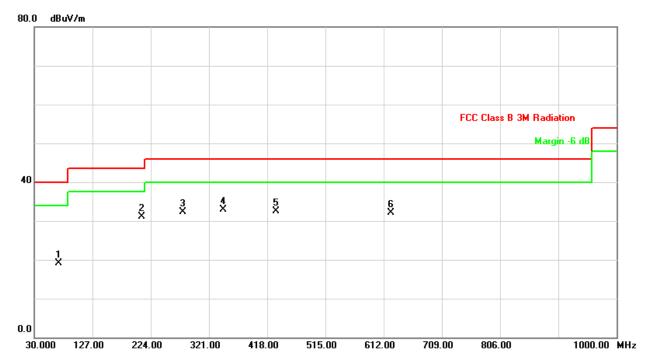
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>24</b> ℃	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CHANNEL 11		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
71.23	Н	37.48	-18.46	19.02	40.00	- 20.98	
209.45	Η	47.37	-16.33	31.04	43.50	- 12.46	
277.35	Η	45.15	-12.81	32.34	46.00	- 13.66	
345.25	Η	43.77	-10.96	32.81	46.00	- 13.19	
432.55	Ι	40.97	-8.43	32.54	46.00	- 13.46	
624.13	Н	36.02	-3.82	32.20	46.00	- 13.80	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (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.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



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# 4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

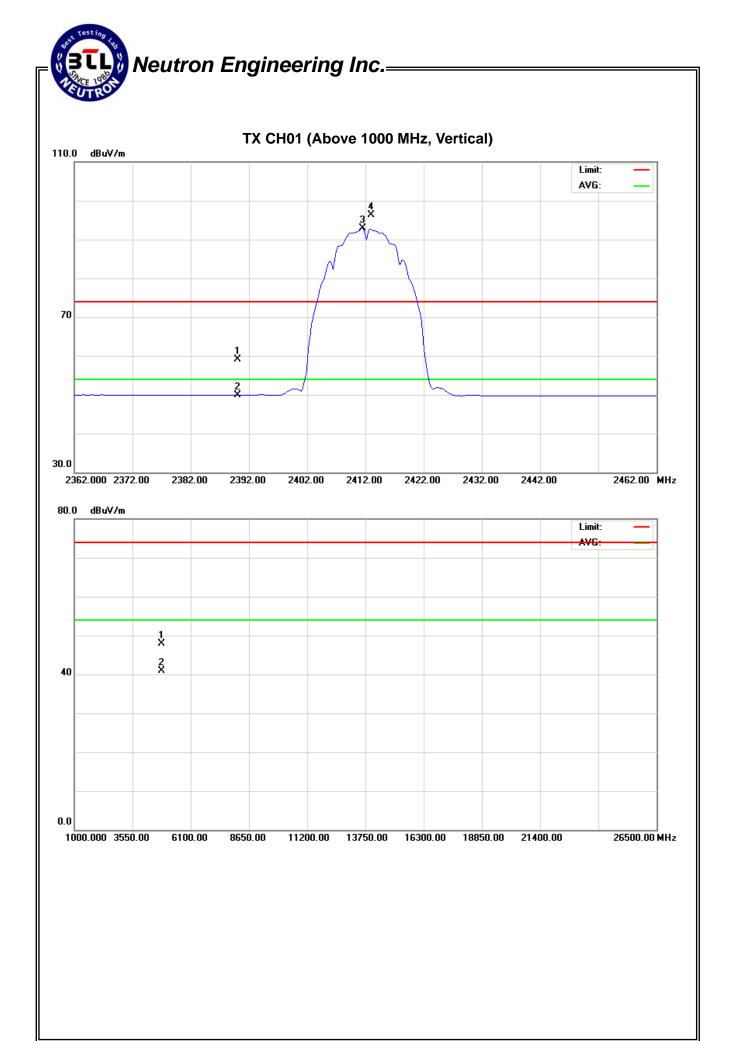
I I I I I	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Erco	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	انـا	nit	
Freq.	AIIL.FUI.	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	27.15	17.91	31.91	59.06	49.82	74.00	54.00	X/E
2413.00	V	64.52	60.92	31.88	96.40	92.80			X/F
4824.15	V	42.52	35.56	5.29	47.81	40.85	74.00	54.00	X/H

## Remark:

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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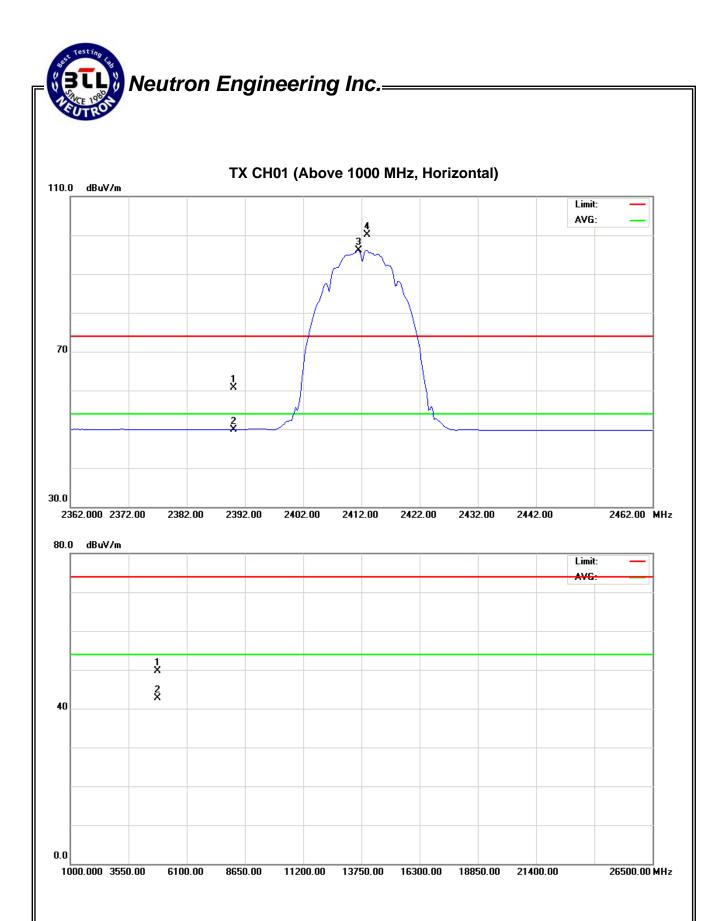


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	25 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

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	28.71	17.95	31.91	60.62	49.86	74.00	54.00	X/E
2413.00	Н	68.27	64.18	31.88	100.15	96.06			X/F
4824.13	Н	44.48	37.47	5.29	49.77	42.76	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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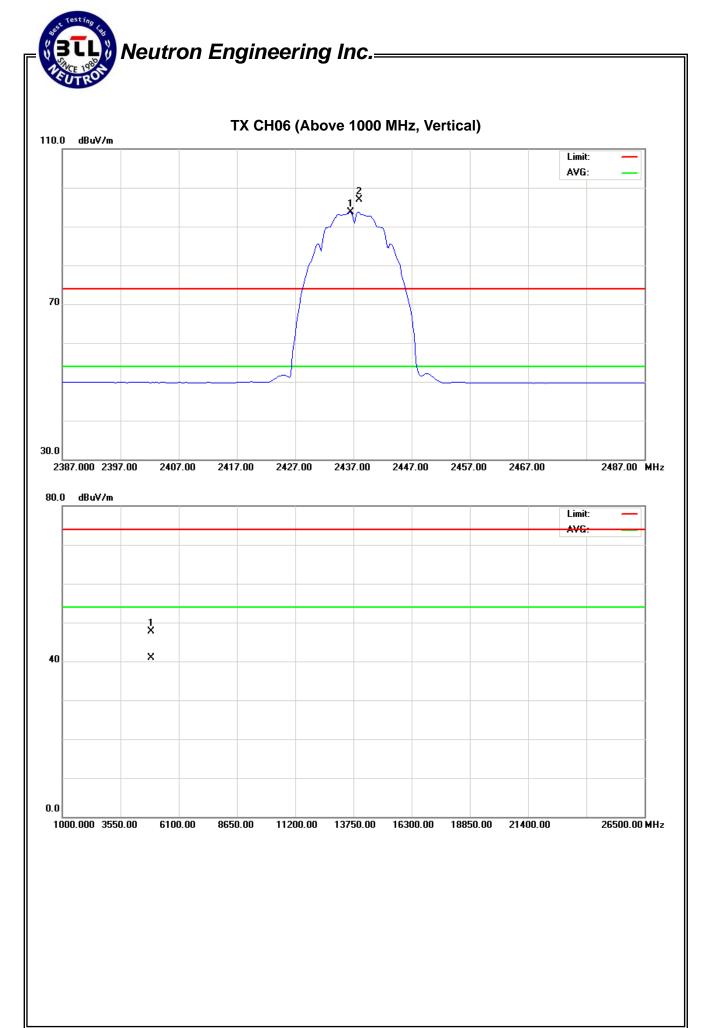


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

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)	
2436.50	V	65.13	61.81	31.85	96.98	93.66			X/F
4874.12	V	42.18	35.42	5.47	47.65	40.89	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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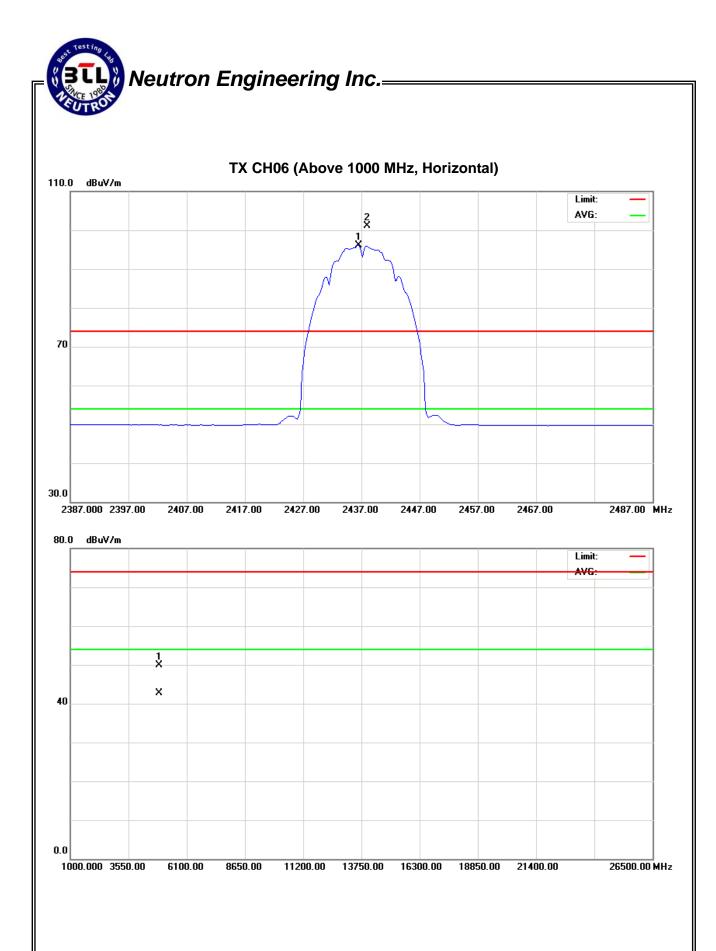


IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

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)	
2438.00	Н	69.16	64.21	31.85	101.01	96.06			X/F
4874.20	Н	44.38	37.26	5.47	49.85	42.73	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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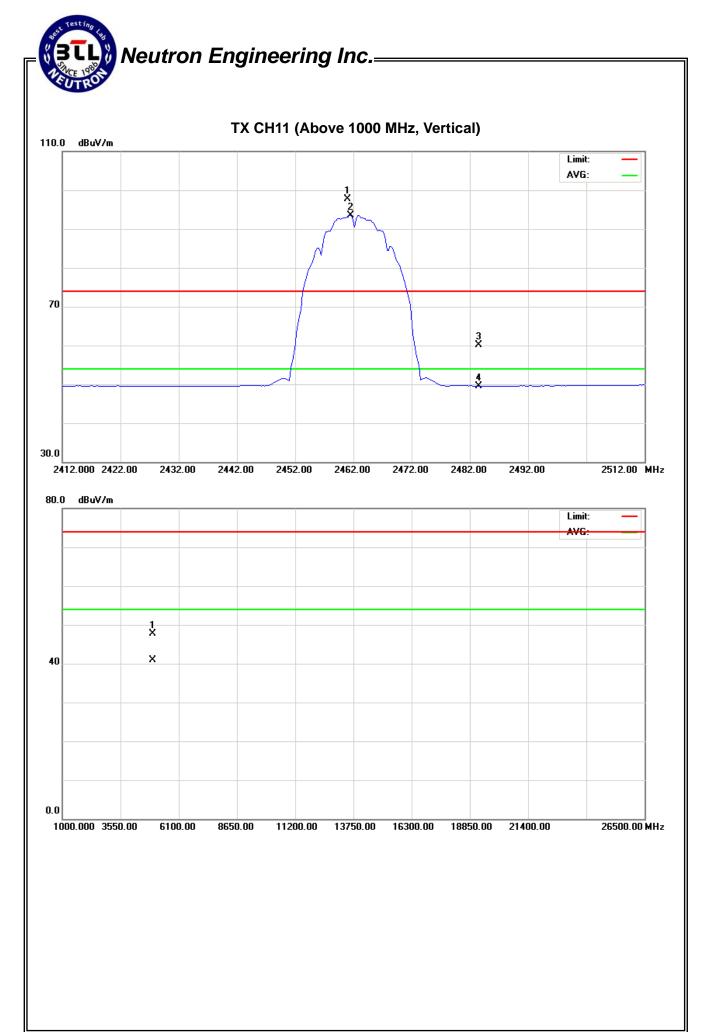


IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

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)	
2461.50	V	65.79	61.75	31.83	97.62	93.58			X/F
2483.50	V	28.38	17.77	31.80	60.18	49.57	74.00	54.00	X/E
4924.16	V	42.14	35.22	5.65	47.79	40.87	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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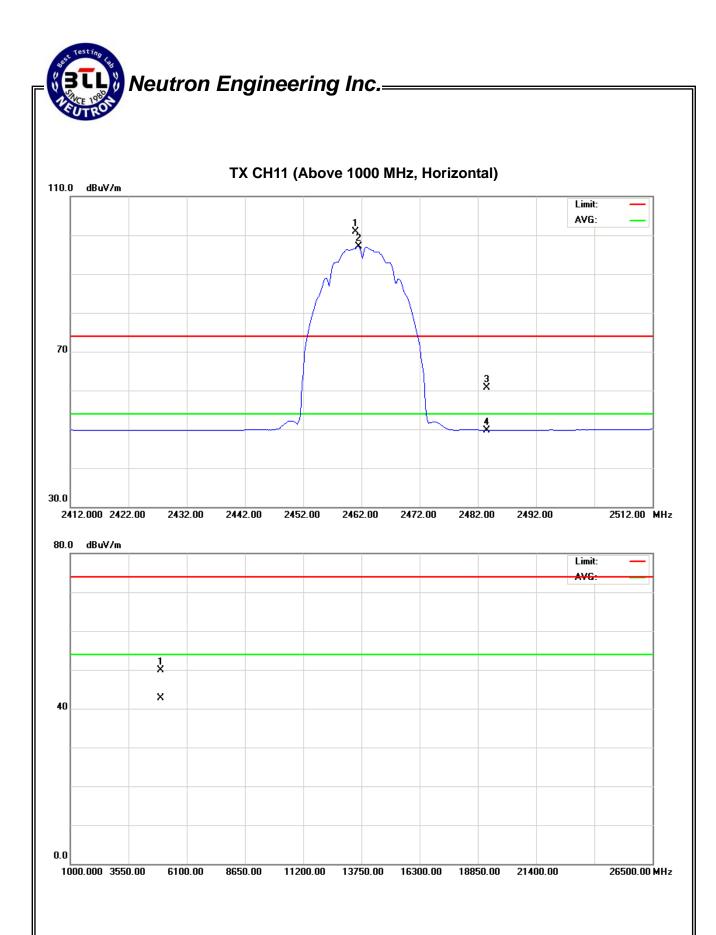
Report No.: NEI-FCCP-1-1203C242

EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	25 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

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)	
2461.50	Н	69.15	65.27	31.83	100.98	97.10			X/F
2483.50	Н	28.83	17.94	31.80	60.63	49.74	74.00	54.00	X/E
4824.10	Н	44.27	37.15	5.65	49.92	42.80	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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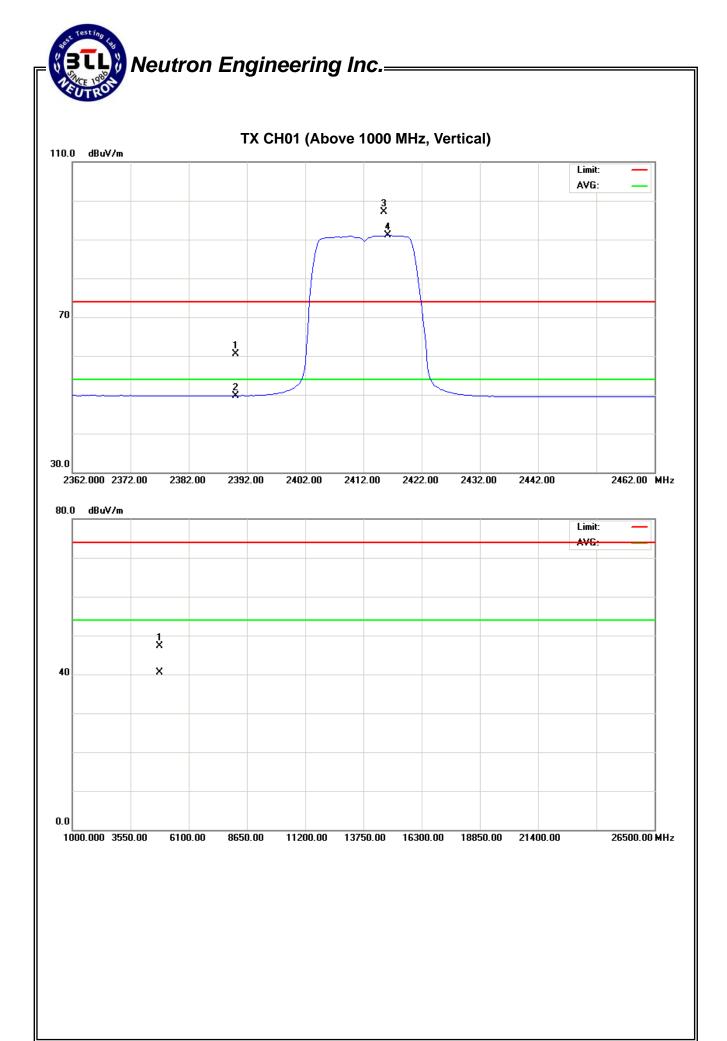


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
пец.	AII.POI.	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	28.65	17.81	31.91	60.56	49.72	74.00	54.00	X/E	
2415.50	V	65.23	59.16	31.88	97.11	91.04			X/F	
4824.24	V	42.09	35.17	5.29	47.38	40.46	74.00	54.00	X/H	

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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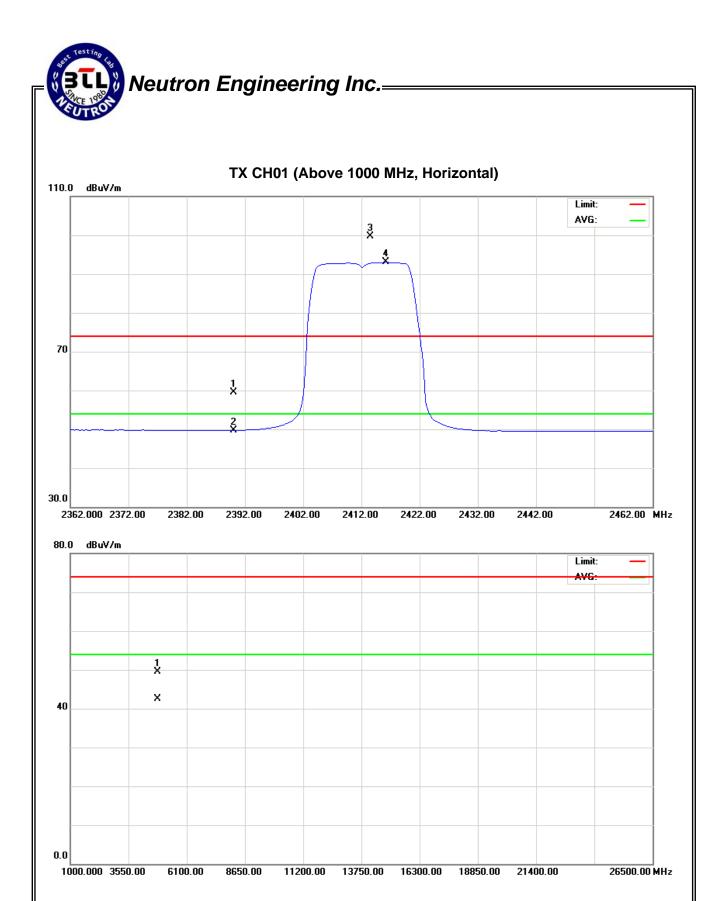


IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

Freq.	Ant Dol	Ant.Pol. Reading		Ant./CF	A	Act.		Limit		
пщ.	AIIL.FUI.	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	27.53	17.82	31.91	59.44	49.73	74.00	54.00	X/E	
2413.50	Н	67.89	61.13	31.88	99.77	93.01			X/F	
4824.18	Н	44.13	37.24	5.29	49.42	42.53	74.00	54.00	X/H	

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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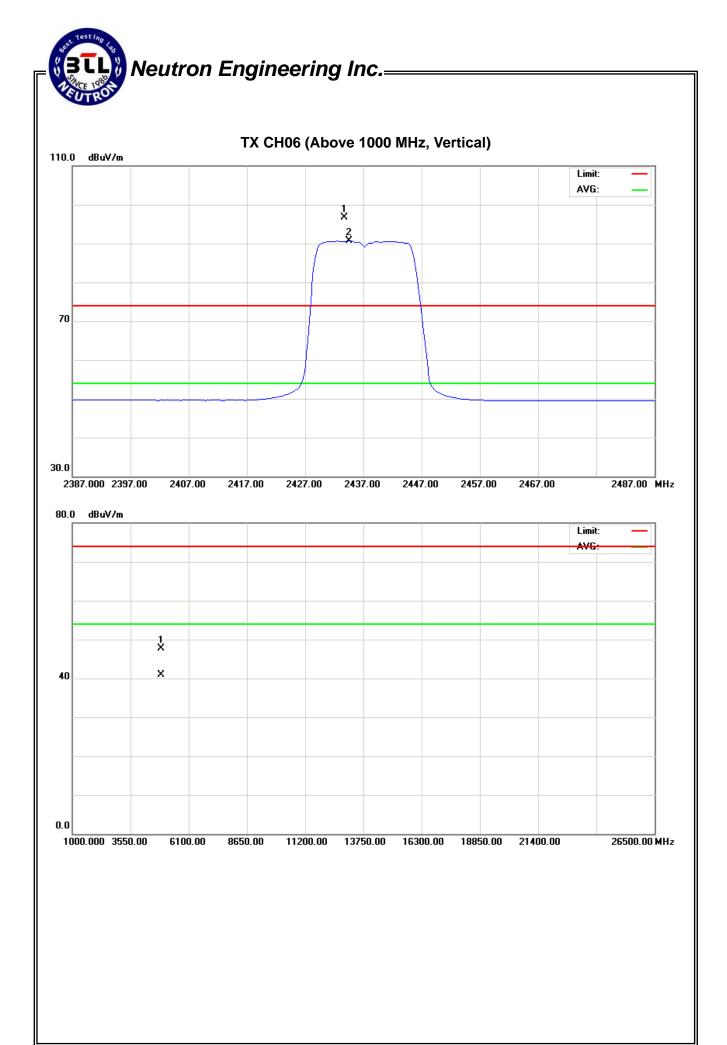


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freq. Ant.P	Ant Dol	Ant.Pol. Reading		Ant./CF	Act.		Lir		
пец.	AHLPOL	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2433.80	V	64.75	58.83	31.86	96.61	90.69			X/F
4874.25	V	42.19	35.49	5.47	47.66	40.96	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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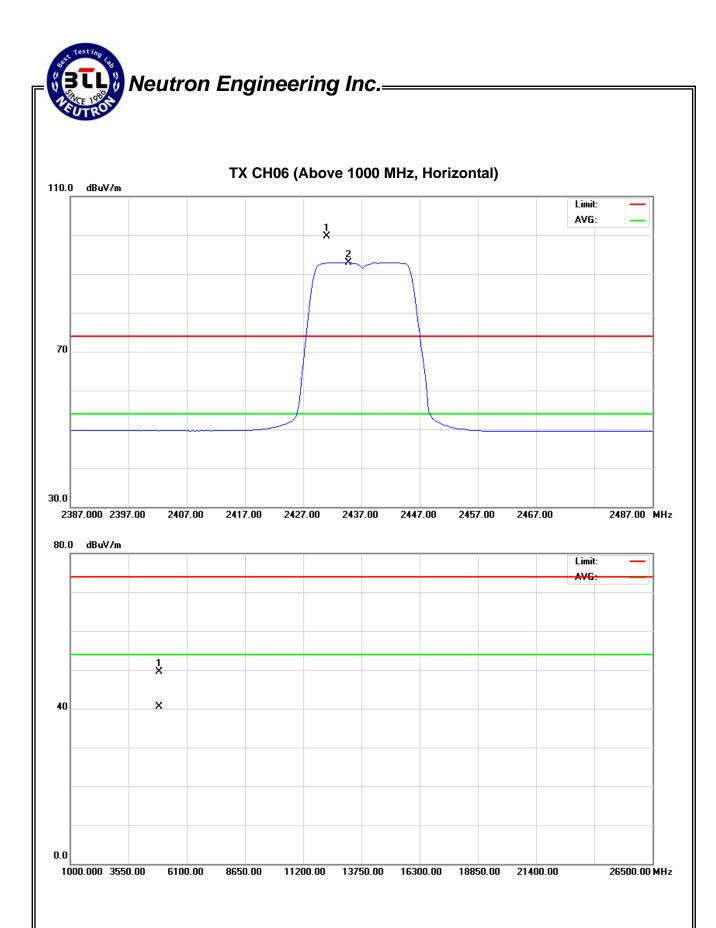


IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freg. Ant.Po	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
пщ.	Alil.FUI.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2430.80	Н	67.87	61.14	31.86	99.73	93.00			X/F
4874.15	Н	44.05	35.11	5.47	49.52	40.58	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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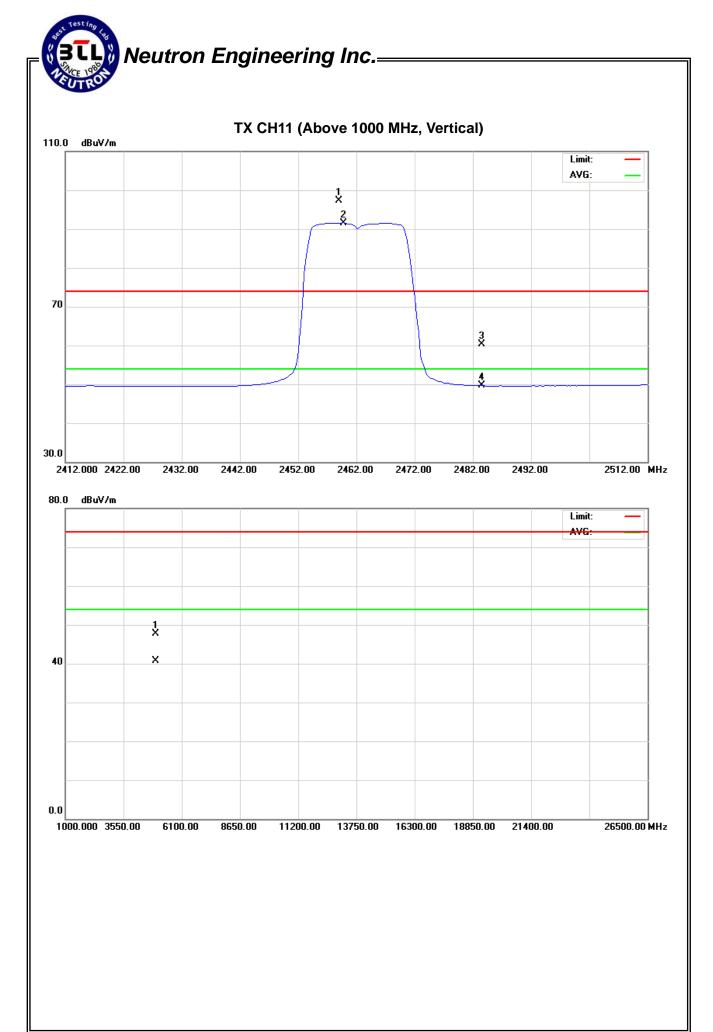


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	25 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

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)	
2459.00	V	65.42	59.77	31.83	97.25	91.60			X/F
2483.50	V	28.58	17.81	31.80	60.38	49.61	74.00	54.00	X/E
4924.00	V	42.02	35.07	5.65	47.67	40.72	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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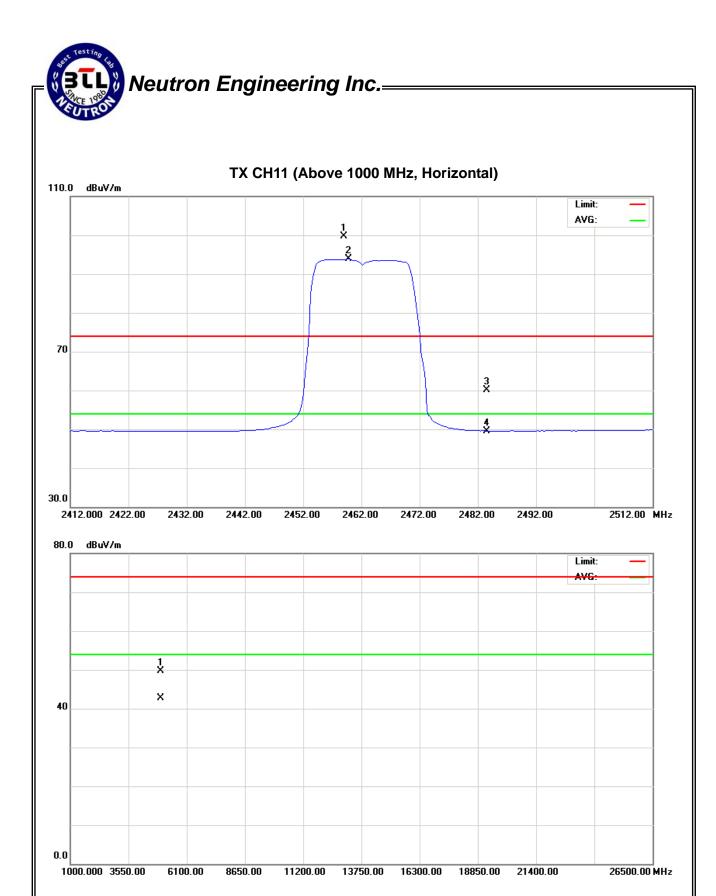


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	25 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

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)	
2459.00	Н	67.84	62.05	31.83	99.67	93.88			X/F
2483.50	Н	28.34	17.77	31.80	60.14	49.57	74.00	54.00	X/E
4924.08	Н	44.15	37.04	5.65	49.80	42.69	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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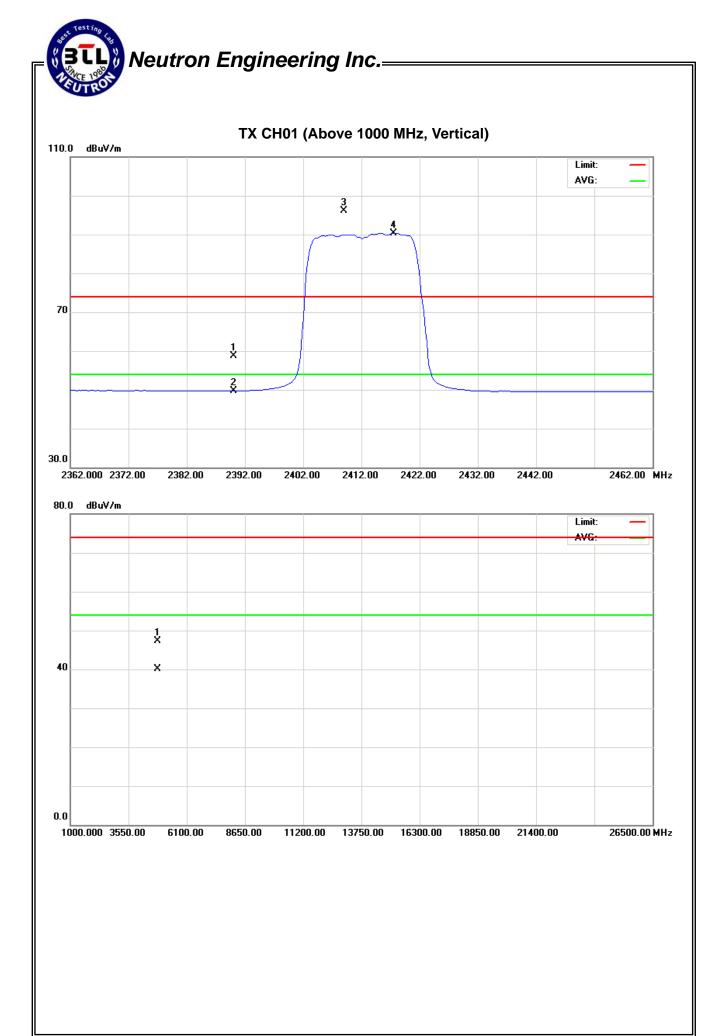


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 MODE 2412MHz		

Freq. Ant Do	Ant.Pol.	Reading		Ant./CF	= Act.		Lir		
Freq.	AII.POI.	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	26.72	17.80	31.91	58.63	49.71	74.00	54.00	X/E
2409.00	V	64.29	58.47	31.89	96.18	90.36			X/F
4824.07	V	41.93	34.76	5.29	47.22	40.05	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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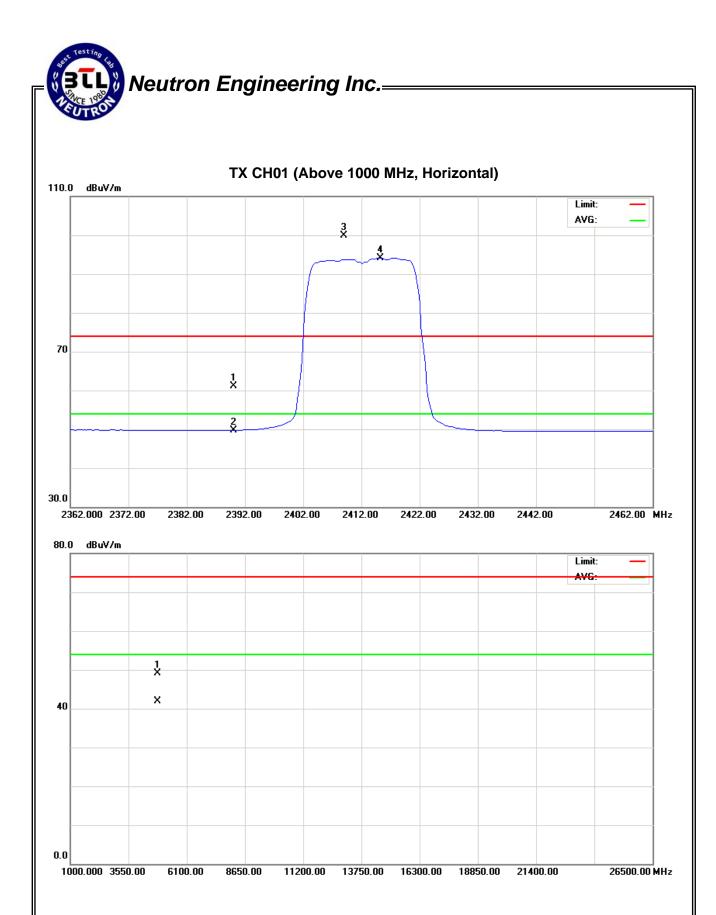


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 MODE 2412MHz		

Freq Ant Do	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
Freq.	AHL.POI.	Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	Η	29.23	17.82	31.91	61.14	49.73	74.00	54.00	X/E	
2415.25	Н	67.92	62.30	31.88	99.8	94.18			X/F	
4824.17	Н	43.75	36.71	5.29	49.04	42	74.00	54.00	X/H	

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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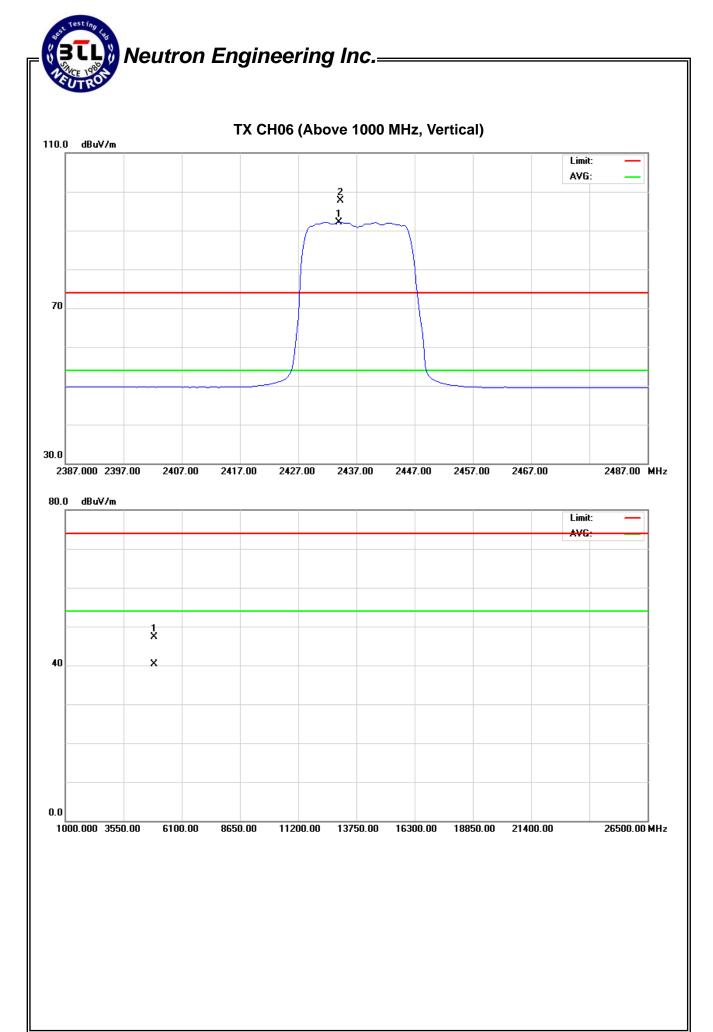


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 MODE 2437MHz		

Freg. Ant.Po	Ant Dol	Reading		Ant./CF	Act.		Lir		
пец.	AHLPOL	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2434.00	V	65.83	60.23	31.86	97.69	92.09			X/F
4874.26	V	41.86	34.92	5.47	47.33	40.39	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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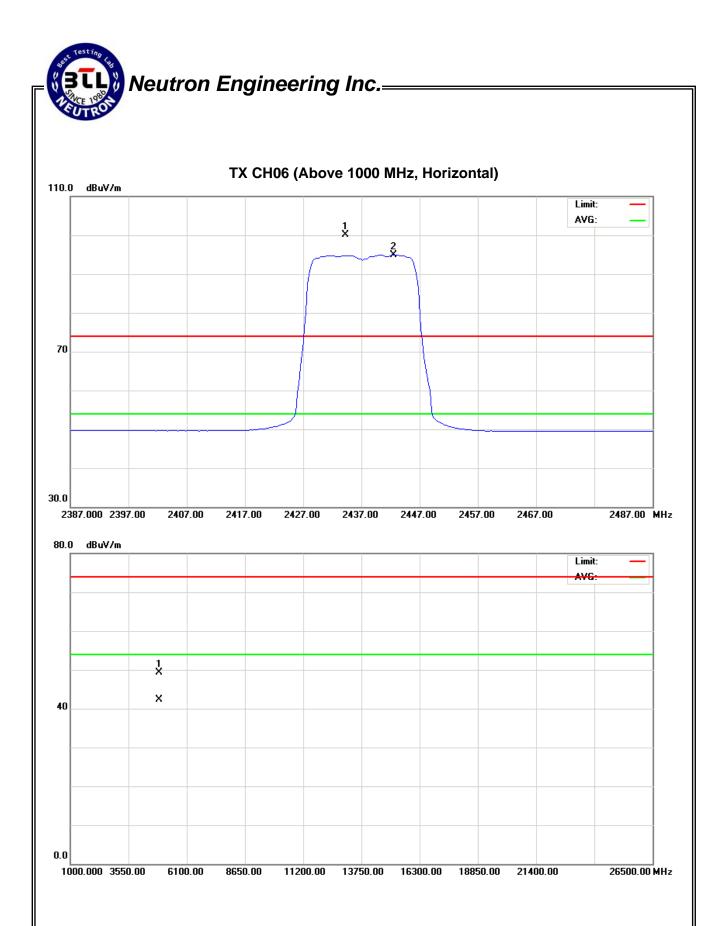


H ( ) I	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 MODE 2437MHz		

Freq. Ant.Po	Ant.Pol.	Reading Reading		Ant./CF	Act.		Lir		
пщ.	Alil.FUI.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2434.30	Н	68.29	63.11	31.85	100.14	94.96			X/F
4874.16	Н	43.85	36.82	5.47	49.32	42.29	74.00	54.00	XΉ

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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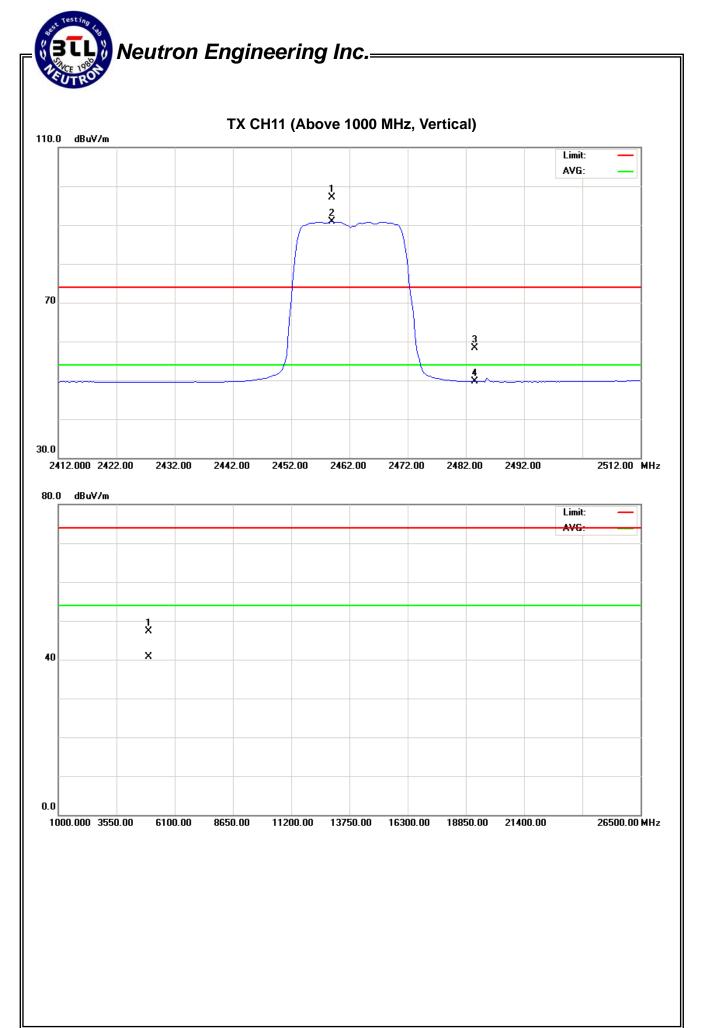


H ( ) I	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 MODE 2462MHz		

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)	
2459.00	V	65.18	59.02	31.83	97.01	90.85			X/F
2483.50	V	26.41	17.85	31.80	58.21	49.65	74.00	54.00	X/E
4924.12	V	41.59	35.01	5.65	47.24	40.66	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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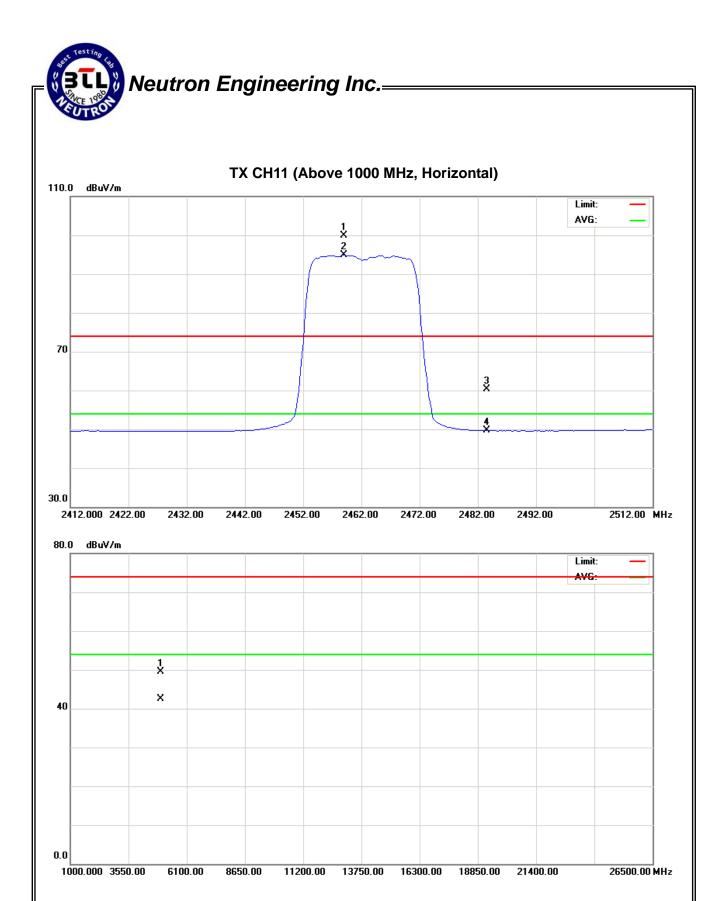


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 MODE 2462MHz		

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)	
2459.00	Н	68.16	62.99	31.83	99.99	94.82			X/F
2483.50	Н	28.58	17.85	31.80	60.38	49.65	74.00	54.00	X/E
4924.23	Н	43.89	36.88	5.65	49.54	42.53	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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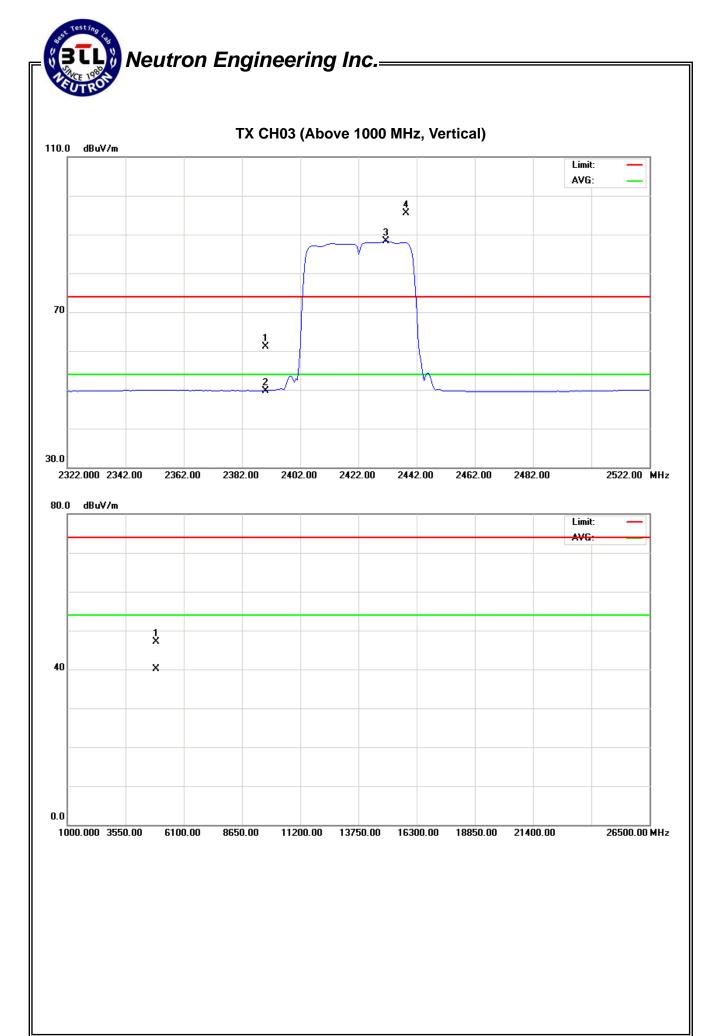


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

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	29.20	17.86	31.91	61.11	49.77	74.00	54.00	X/E
2431.50	V	63.57	56.38	31.87	95.44	88.25			X/F
4844.15	V	41.72	34.69	5.36	47.08	40.05	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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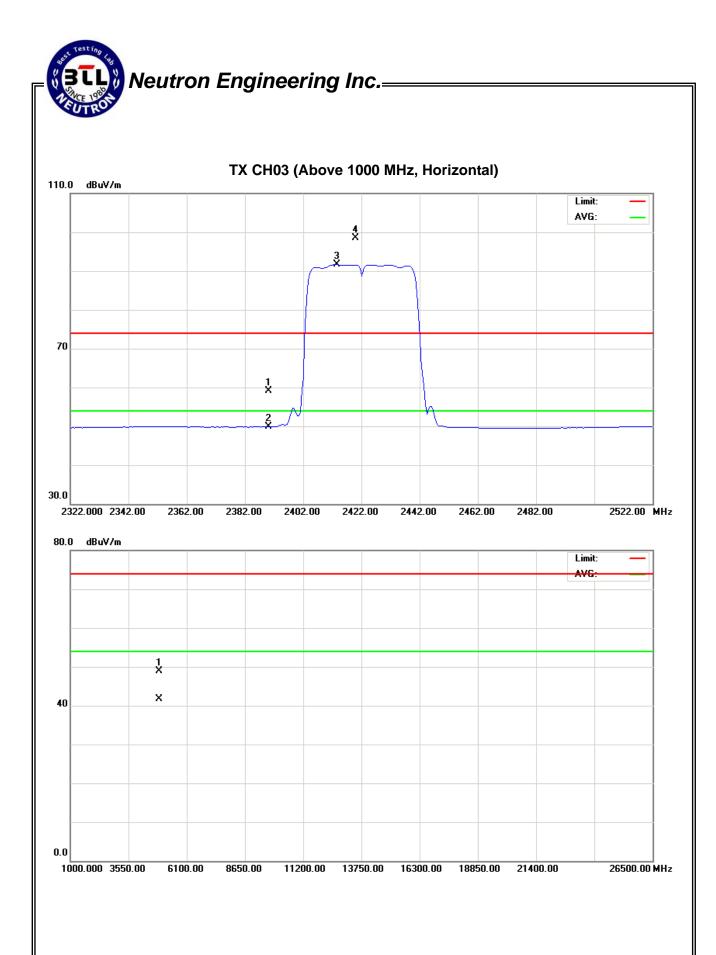


IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

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	27.18	17.91	31.91	59.09	49.82	74.00	54.00	X/E
2420.00	Н	66.53	59.79	31.88	98.41	91.67			X/F
4844.05	Н	43.63	36.29	5.36	48.99	41.65	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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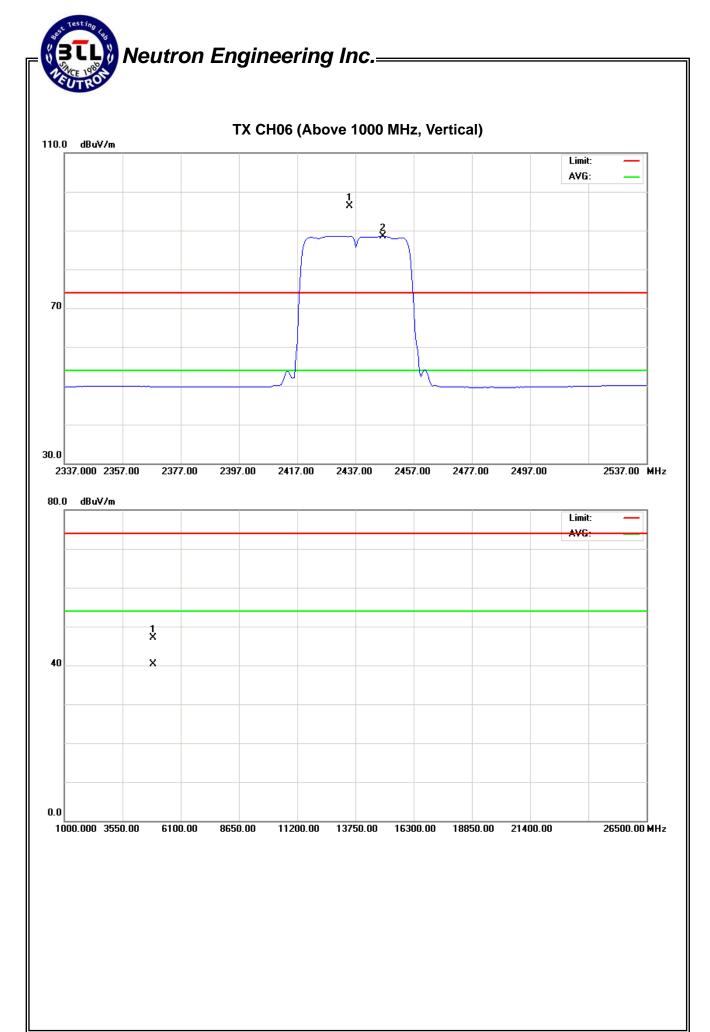


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Po	Ant.Pol.	Ant Rol Reading		Ant./CF	Ad	Act.		Limit		
r req.	AIIL.FUI.	Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2446.50	٧	64.37	56.73	31.85	96.22	88.58			X/F	
4874.02	V	41.56	34.76	5.47	47.03	40.23	74.00	54.00	X/H	

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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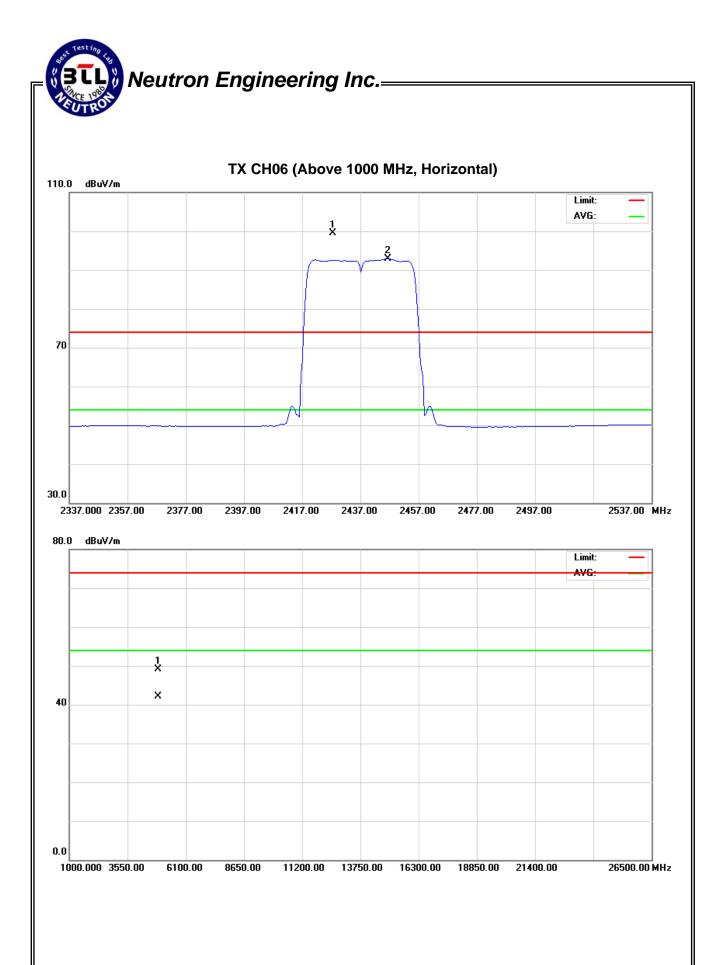


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Po	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
r req.	AHLFUI.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2446.50	Н	67.54	61.04	31.85	99.39	92.89			X/F
4874.06	Н	43.57	36.73	5.47	49.04	42.20	74.00	54.00	X/H

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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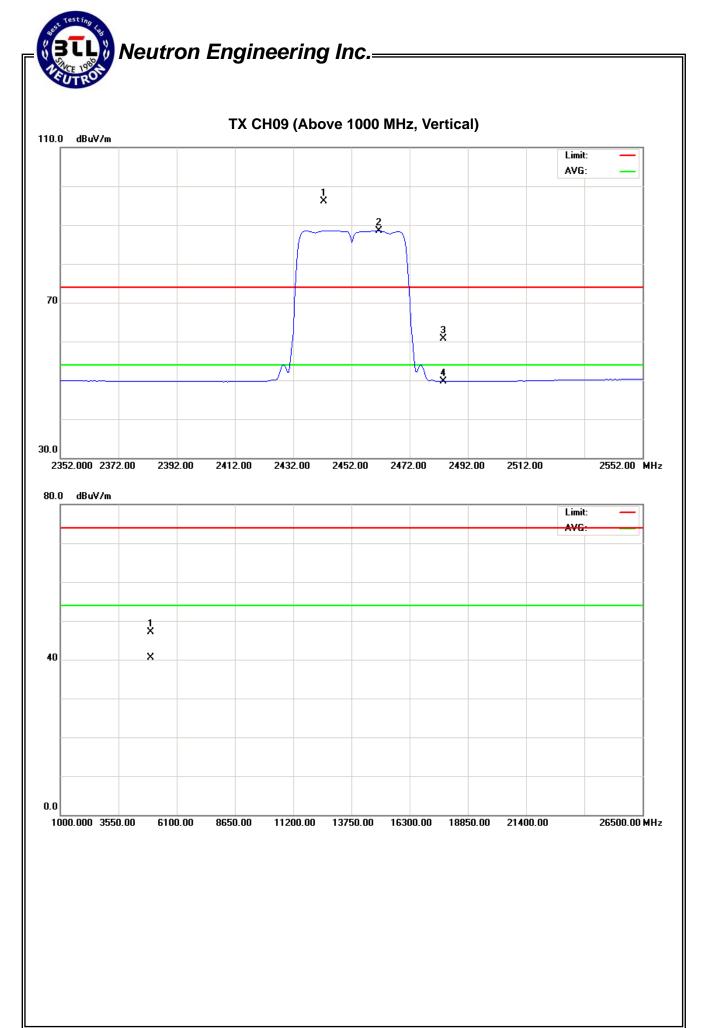
IF()	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Α	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)	
2461.50	V	64.28	56.73	31.83	96.11	88.56			X/F
2483.50	V	29.00	17.96	31.80	60.80	49.76	74.00	54.00	X/E
4904.11	V	41.62	34.84	5.58	47.20	40.42	74.00	54.00	X/H

#### Remark:

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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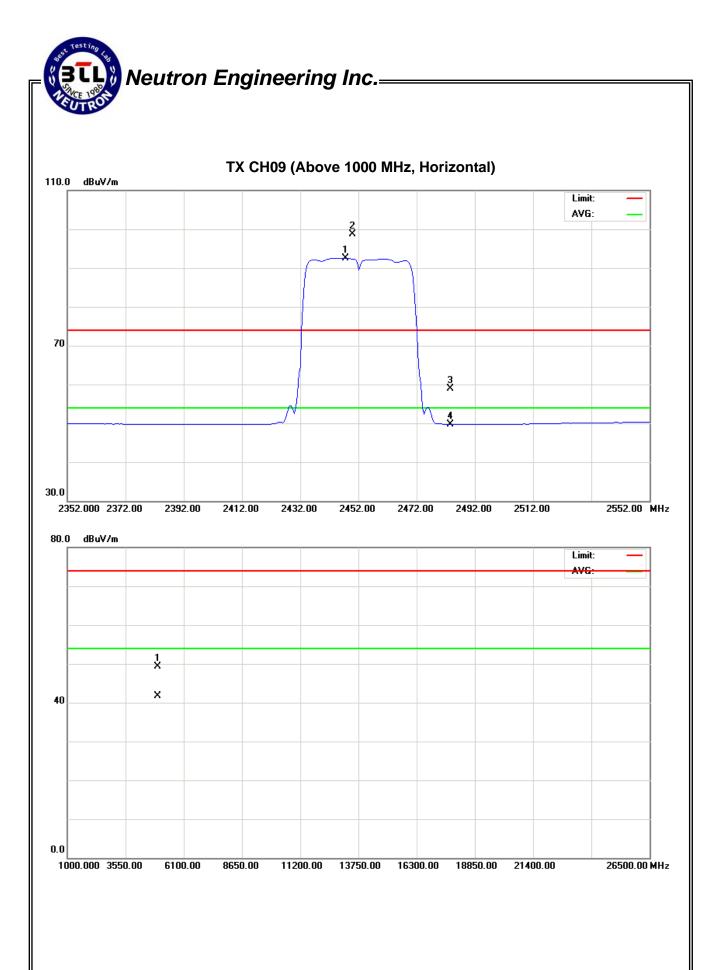
EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>25</b> ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Α	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)	
2447.50	Н	66.84	60.71	31.84	98.68	92.55			X/F
2483.50	Н	27.10	17.92	31.80	58.90	49.72	74.00	54.00	X/E
4904.07	Н	43.77	36.19	5.58	49.35	41.77	74.00	54.00	X/H

#### Remark:

- (1) 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.
- (2) 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. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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#### 5. BANDWIDTH TEST

#### 5.1 Applied procedures / limit

71. Applied procedures Amine				
	FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

#### **5.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.26.2011	Nov.26.2012

Remark: "N/A" denotes No Model Name., 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 = 5 ms.

#### **5.1.3 DEVIATION FROM STANDARD**

No deviation.

#### 5.1.4 TEST SETUP



#### **5.1.5 EUT OPERATION CONDITIONS**

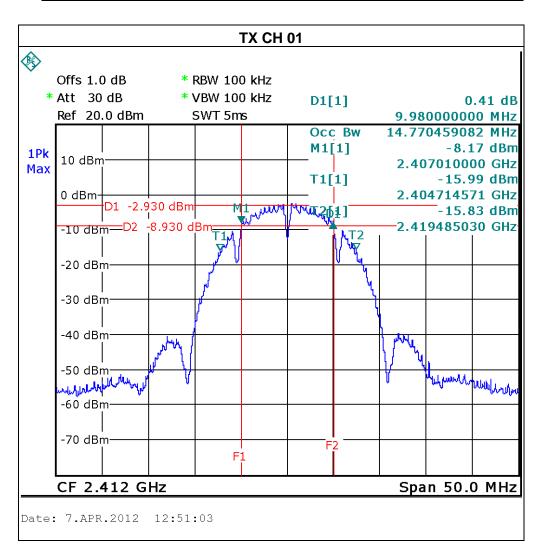
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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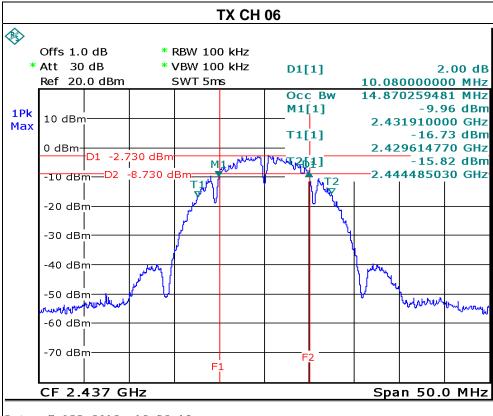
#### **5.1.6 TEST RESULTS**

EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name. :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE /CH01, CH06, CH11			

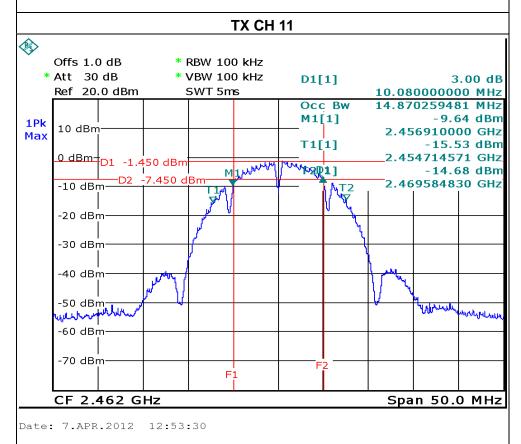
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	9.98	>=500KHz
CH06	2437	10.08	>=500KHz
CH11	2462	10.08	>=500KHz



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Date: 7.APR.2012 12:52:19

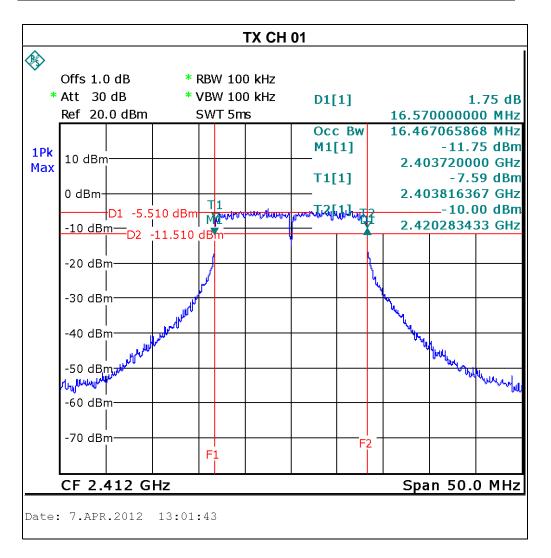


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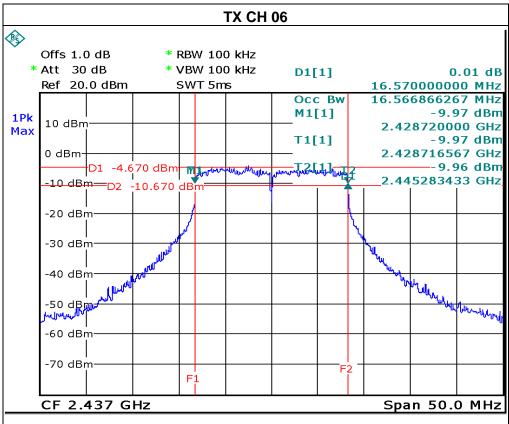
Report No.: NEI-FCCP-1-1203C242

EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name. :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE /CH01, CH06, CH11			

Test Channel	Frequency	Bandwidth	LIMIT
	(MHz)	(MHz)	(MHz)
CH01	2412	16.57	>=500KHz
CH06	2437	16.57	>=500KHz
CH11	2462	16.57	>=500KHz



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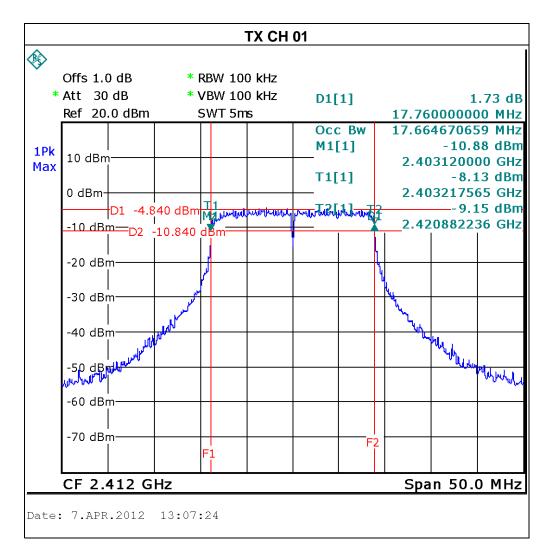
Date: 7.APR.2012 13:04:09

#### **TX CH 11** \* RBW 100 kHz Offs 1.0 dB \* Att 30 dB \* VBW 100 kHz D1[1] 0.41 dB Ref 20.0 dBm SWT 5ms 16.570000000 MHz Occ Bw 16.566866267 MHz -9.55 dBm M1[1] 1Pk 10 dBm 2.453720000 GHz Max T1[1] -9.55 dBm 2.453716567 GHz D1 -4.040 dBm -- 9.13 dBm 2.470283433 GHz 10 dBm D2 -10.040 dB -20 dBm -30 dBm -40 dBm -50 dBW -60 dBm -70 dBm CF 2.462 GHz Span 50.0 MHz Date: 7.APR.2012 13:05:07

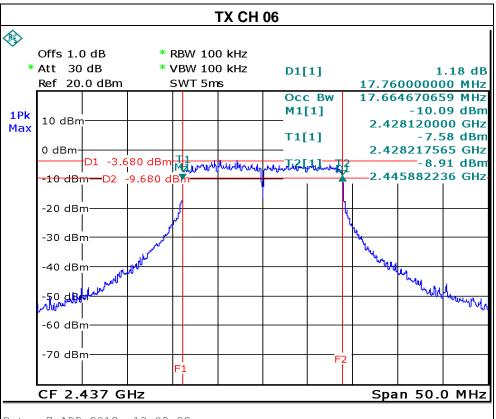
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EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name. :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N MODE -20MHz/ CH01, CH06, CH11			

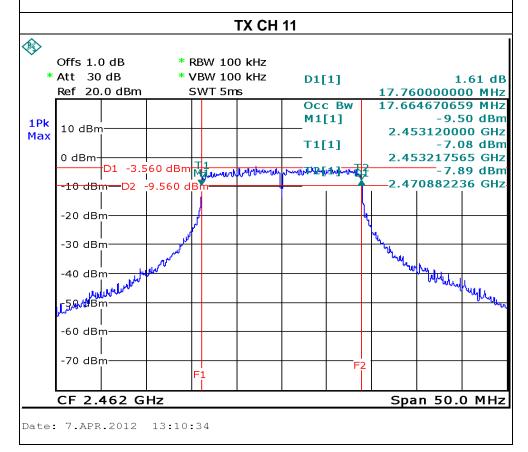
Test Channel	Frequency	Bandwidth	LIMIT
	(MHz)	(MHz)	(MHz)
CH01	2412	17.76	>=500KHz
CH06	2437	17.76	>=500KHz
CH11	2462	17.76	>=500KHz



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Date: 7.APR.2012 13:09:22

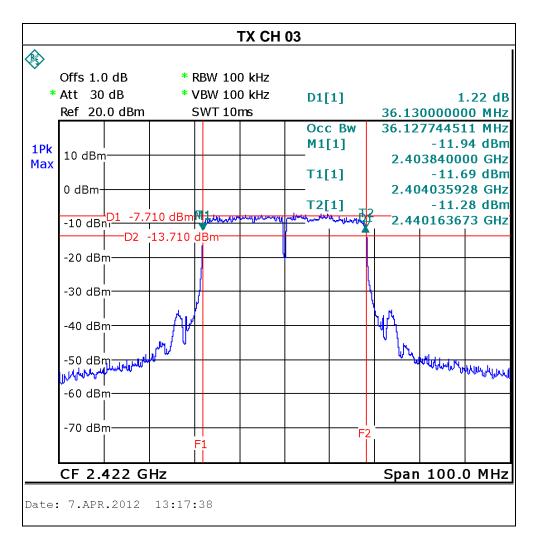


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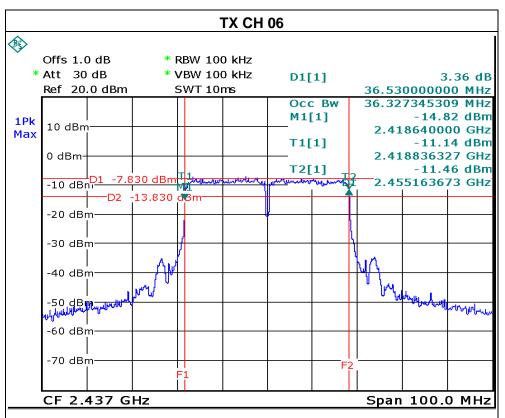
Report No.: NEI-FCCP-1-1203C242

EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name. :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N MODE -40MHz/ CH03, CH06, CH09			

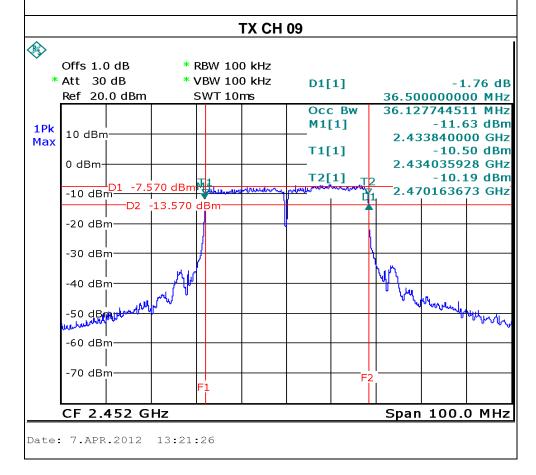
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)	
CH03	, ,	, ,	, , ,	
CHUS	2422	36.13	>=500KHz	
CH06	2437	36.53	>=500KHz	
CH09	2452	36.50	>=500KHz	



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Date: 7.APR.2012 13:20:20



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#### 6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Result					
15.247(b)(3)	Maximum 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.	Last Calibration	Next Calibration
1	Power Meter	Anritsu	ML2495A	1128009	Nov.01.2011	Nov.01.2012
2	Pluse Power Sensor	Anritsu	MA2411B	1128009	Nov.01.2011	Nov.01.2012

Remark: "N/A" denotes No Model Name., 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,
- b Spectrum Setting: RBW= 1MHz, VBW=3MHz, Sample detector, Sweep time = 100 ms.

#### **6.1.3 DEVIATION FROM STANDARD**

No deviation.

#### 6.1.4 TEST SETUP

EUT	Power Meter
	1 Ower weter

#### **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.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

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#### 6.1.6 TEST RESULTS

	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE /CH01, CH06, CH11			

#### **Maximum Output Power**

Test Channel	Frequency (MHz)	Output Power (dBm) -PK	Output Power (dBm) -AV	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	14.85	11.72	30	1
CH06	2437 MHz	14.92	11.76	30	1
CH11	2462 MHz	15.22	11.9	30	1

	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE /CH01, CH06, CH11			

### **Maximum Output Power**

Test Channel	Frequency (MHz)	Output Power (dBm) -PK	Output Power (dBm) -AV	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	22.13	11.84	30	1
CH06	2437 MHz	22.28	11.79	30	1
CH11	2462 MHz	22.34	11.91	30	1

Note: No SAR evaluation required since transmitter power is below FCC threshold.

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EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	st Mode : TX N-20M MODE /CH01, CH06, CH11			

### **Maximum Output Power**

Test Channel	Frequency (MHz)	Output Power (dBm) -PK	Output Power (dBm) -AV	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	21.79	11.78	30	1
CH06	2437 MHz	21.86	11.82	30	1
CH11	2462 MHz	21.96	11.88	30	1

	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120		
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %		
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE /CH03, CH06, CH09				

### **Maximum Output Power**

Test Channel	Frequency (MHz)	Output Power (dBm) -PK	Output Power (dBm) -AV	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	22.11	11.83	30	1
CH06	2437 MHz	22.24	11.86	30	1
CH11	2462 MHz	22.30	11.94	30	1

Note: No SAR evaluation required since transmitter power is below FCC threshold.

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#### 7. ANTENNA CONDUCTED SPURIOUS EMISSION

#### 7.1 Applied procedures / limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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

#### 7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.26.2011	Nov.26.2012

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

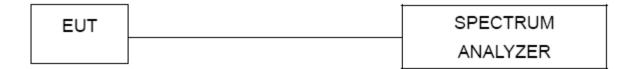
#### 7.1.2 TEST PROCEDURE

- 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 = 10 ms.

#### 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.

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#### 7.1.6 TEST RESULTS

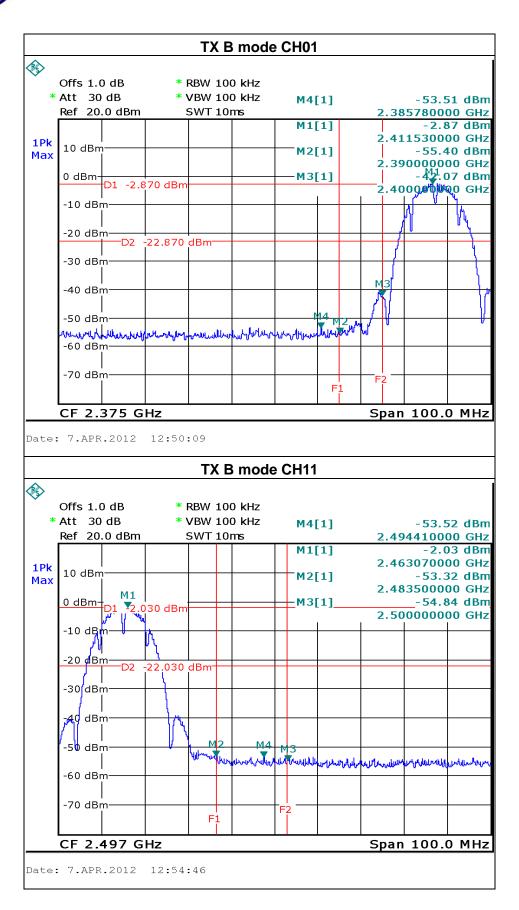
EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE /CH01, CH06 , CH11			

Channel of Worst Data: CH01				
The max. radio frequency power in any 100kHz bandwidth within the frequency band bandwidth within the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00 -42.07 2483.50 -53.32				
Result				

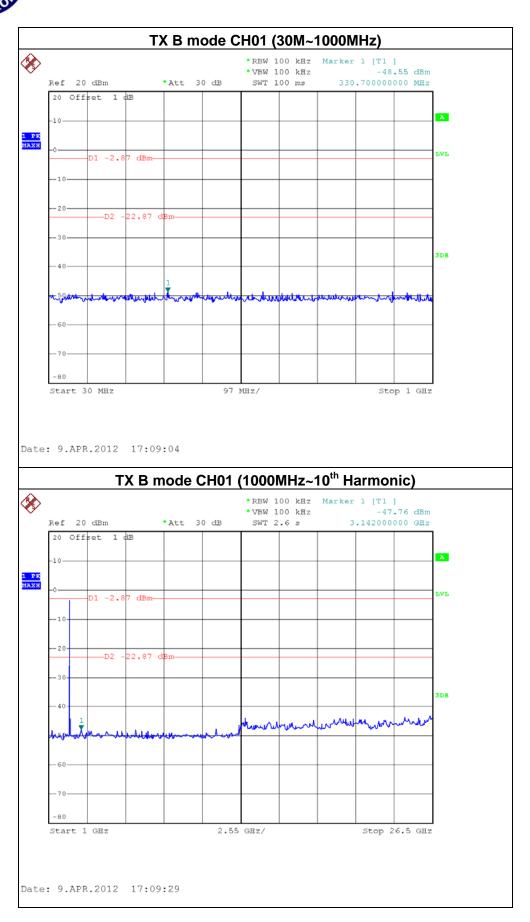
#### Result

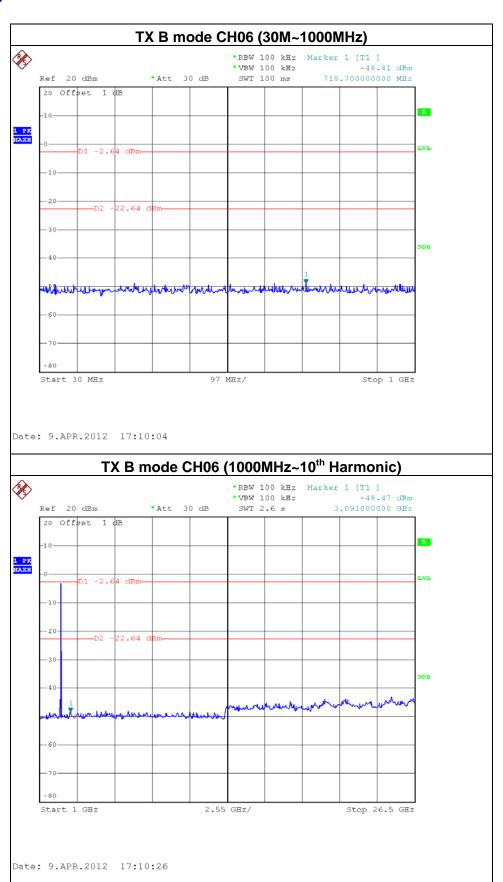
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

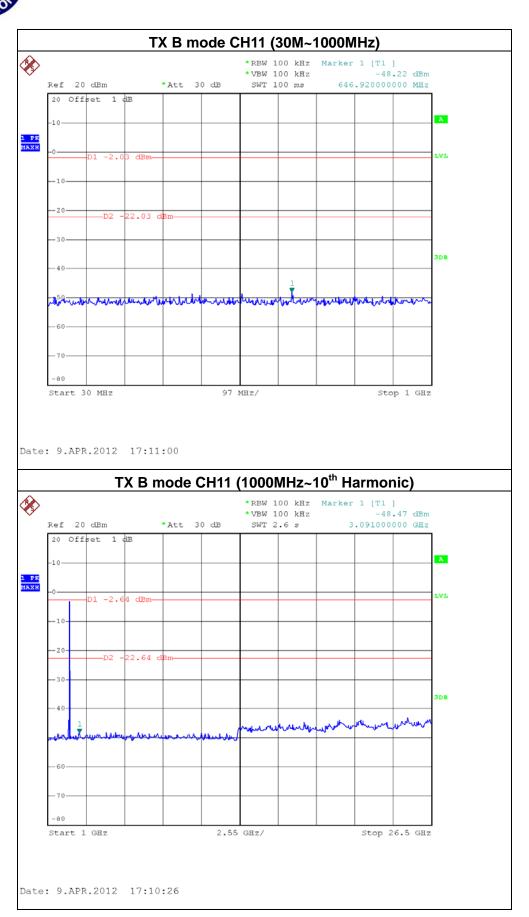
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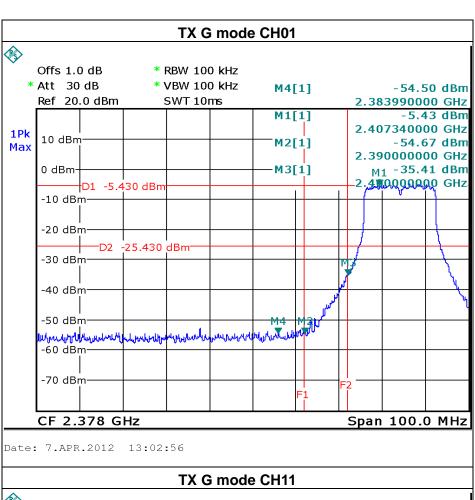
EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE / CH01, CH06, CH11		

Channel of Worst Data: CH01				
	cy power in any 100kHz ne frequency band	The max. radio frequency power in any 100 kHz bandwidth outside the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00 -35.41 2483.50 -51.93				
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.

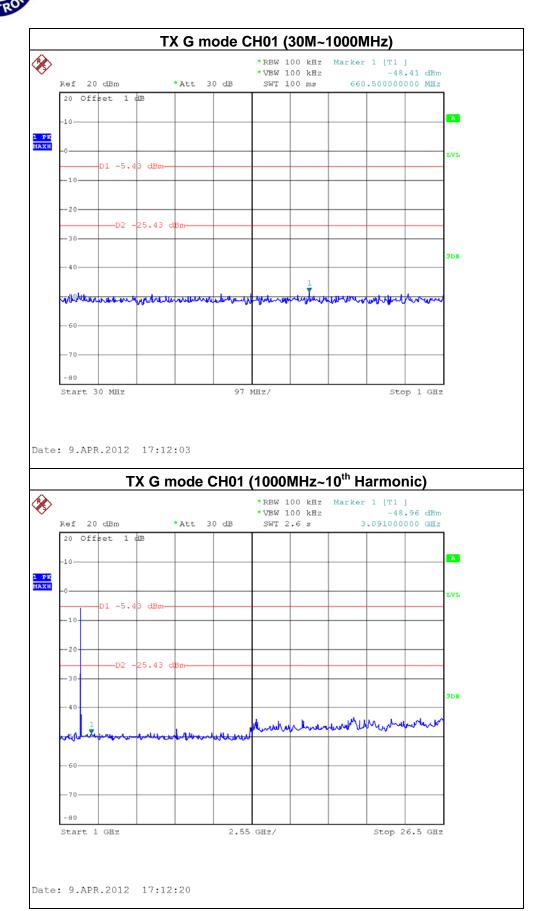
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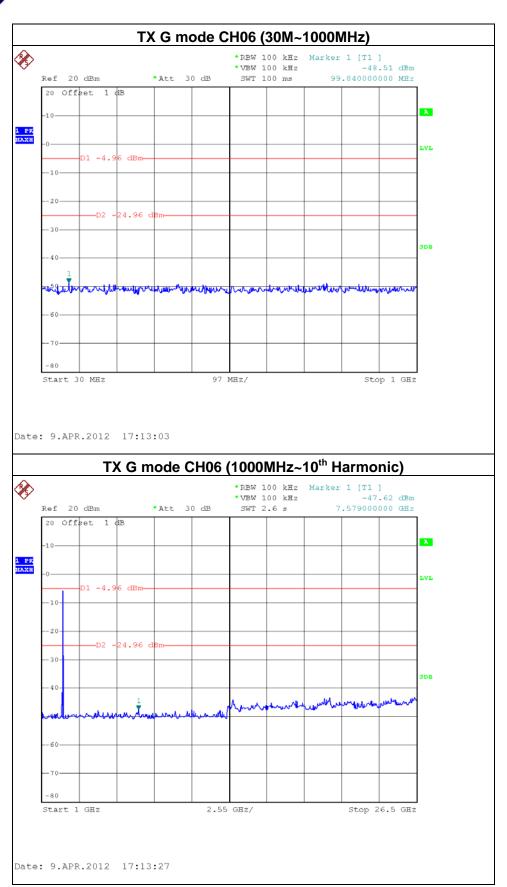


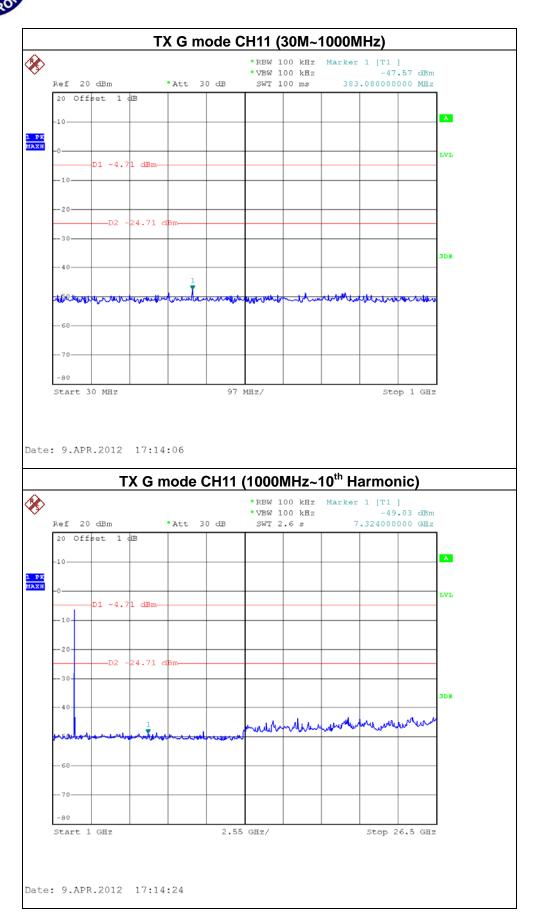
#### Offs 1.0 dB \* RBW 100 kHz \* Att 30 dB \* VBW 100 kHz M4[1] -53.01 dBm Ref 20.0 dBm SWT 10ms 2.487810000 GHz M1[1] -4.68 dBm 2.460470000 GHz 1Pk 10 dBm-M2[1] -51.93 dBm Max 2.483500000 GHz 0 dBm M3[1] -54.75 dBm D1 -4.710 dBm 2.500000000 GHz -10 dBm -20 dBm D2 -24.710 dBm -30 d**ß**m· -40<sup>/</sup>dBm<sup>-</sup> 2 M4-50 dBm -60 dBm--70 dBm-CF 2.493 GHz Span 100.0 MHz Date: 7.APR.2012 13:06:04

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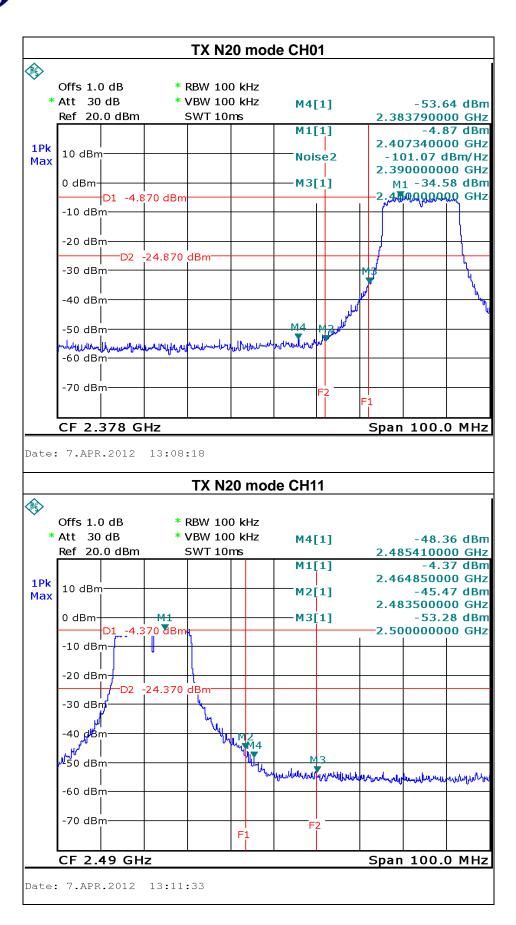


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N-20M MODE / CH01, CH06 , CH11			

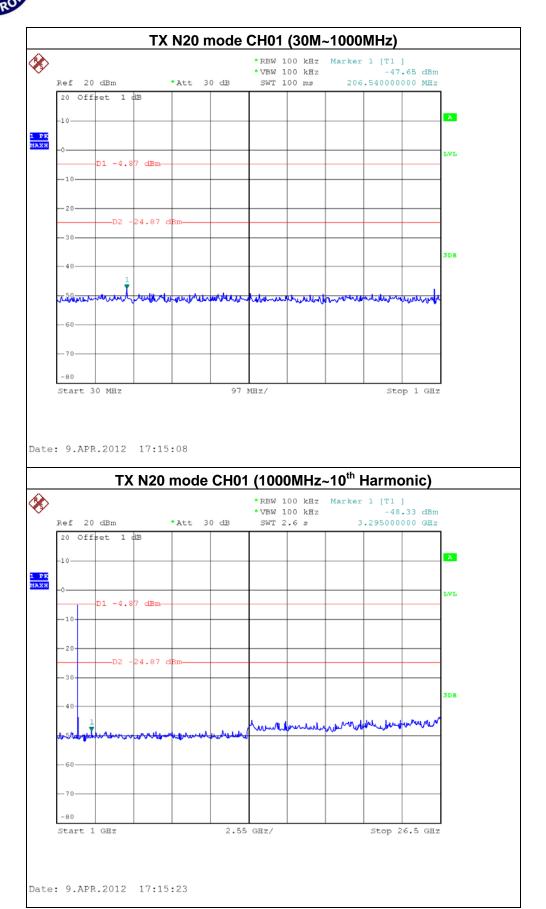
Channel of Worst Data: CH01				
The max. radio frequency power in any 100kHz bandwidth within the frequency band bandwidth within the frequency band				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00 -34.58 2483.50 -45.47				
Result				

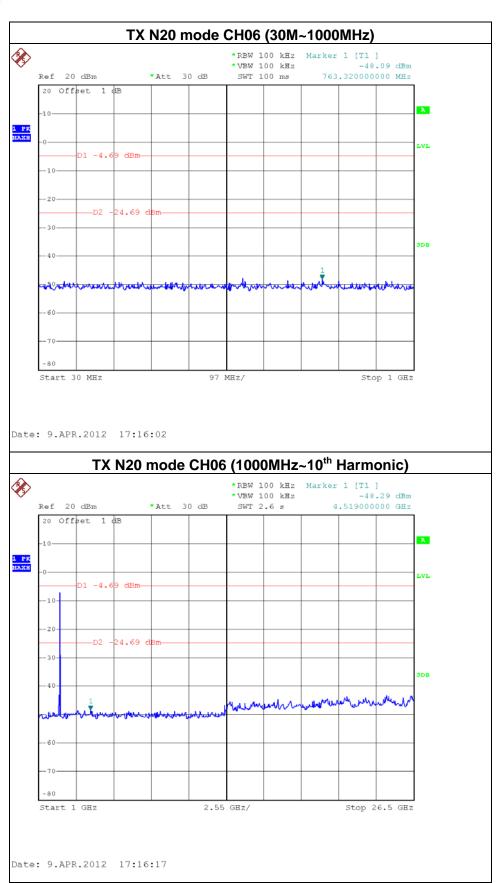
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

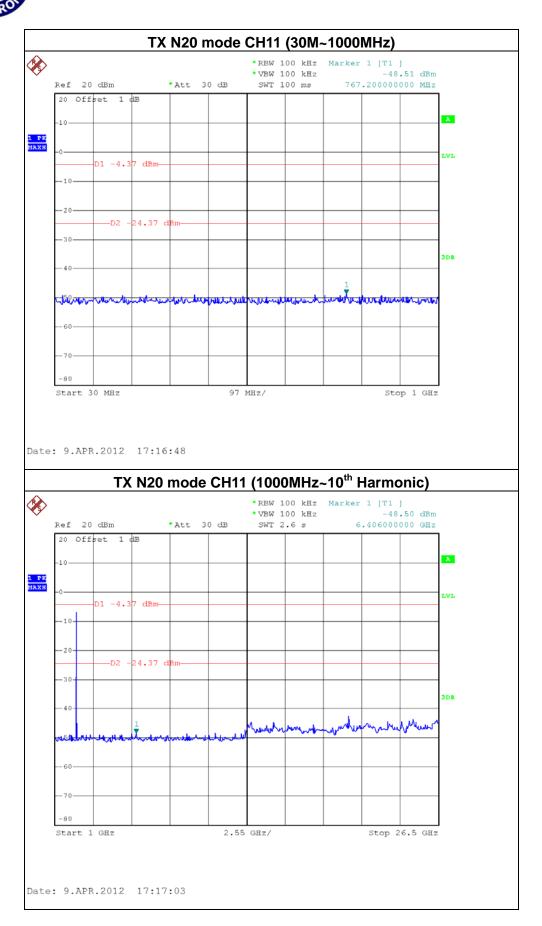
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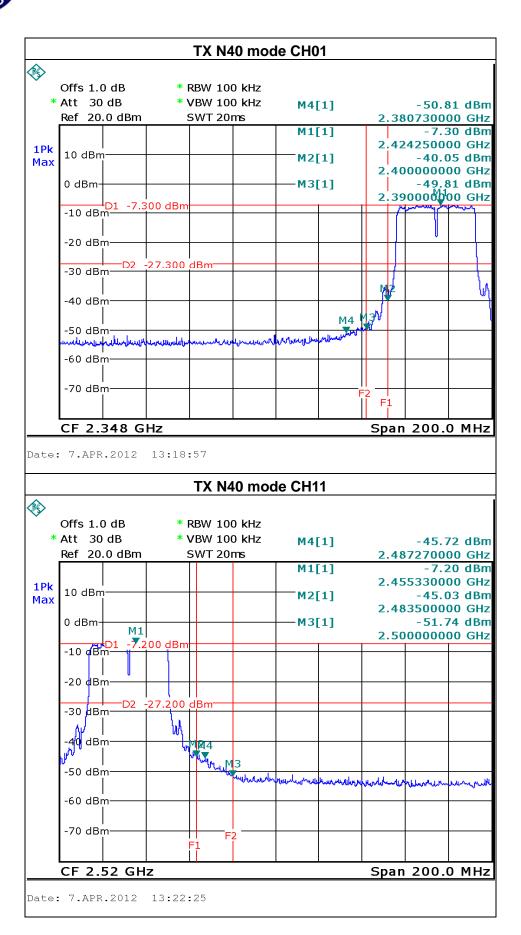


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode : TX N-40M MODE /CH03, CH06, CH09				

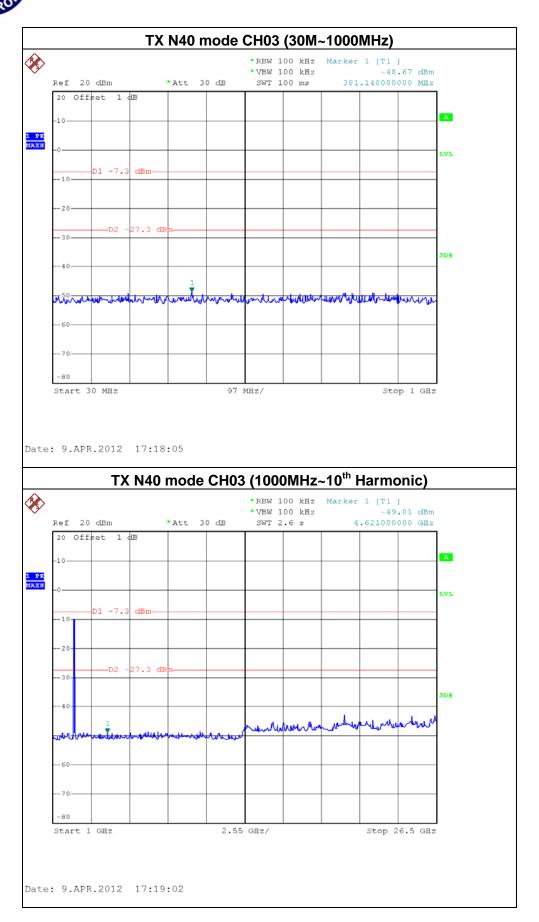
Channel of Worst Data: CH03				
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency band.				
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2390.00 -40.05 2483.50 -45.03				
Result				

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.

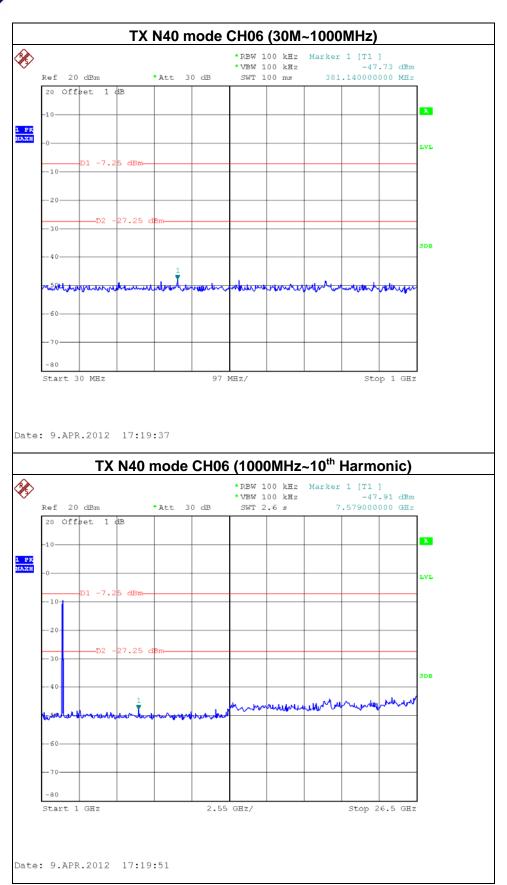
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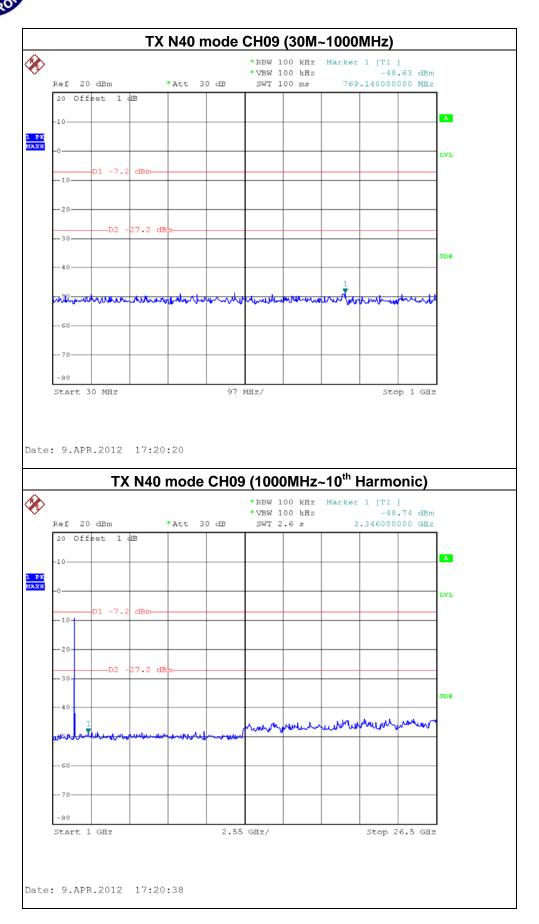


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### 8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(e)	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.	Last Calibration	Next Calibration
1	Spectrum Analyzer	R&S	FSP_40	100185	Nov.26.2011	Nov.26.2012

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

### **8.1.2 TEST PROCEDURE**

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

### 8.1.3 DEVIATION FROM STANDARD

No deviation.

### 8.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### **8.1.5 EUT OPERATION CONDITIONS**

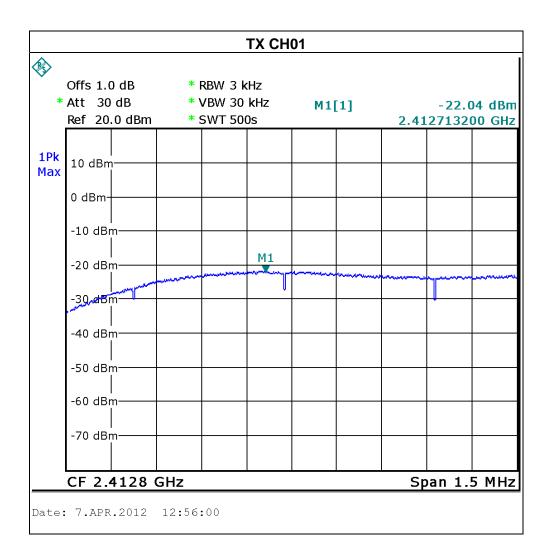
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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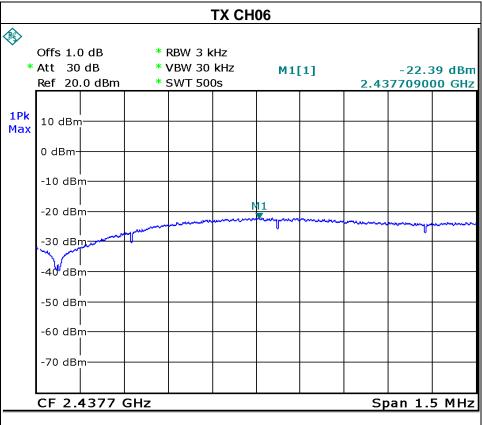
## 8.1.6 TEST RESULTS

EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120		
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %		
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	de : TX B MODE /CH01, CH06, CH11				

Test Channel	Frequency	Power Density	LIMIT
Tool onamor	(MHz)	(dBm)	(dBm)
CH01	2412 MHz	-22.04	8
CH06	2437 MHz	-22.39	8
CH11	2462 MHz	-20.99	8



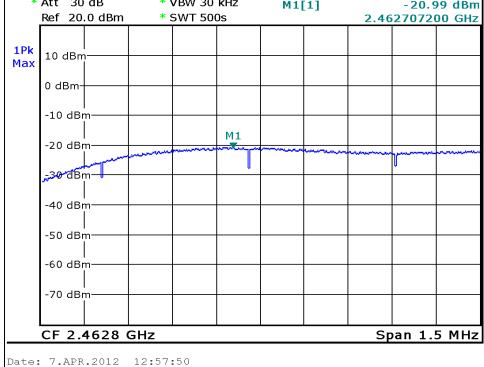
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Date: 7.APR.2012 12:56:57

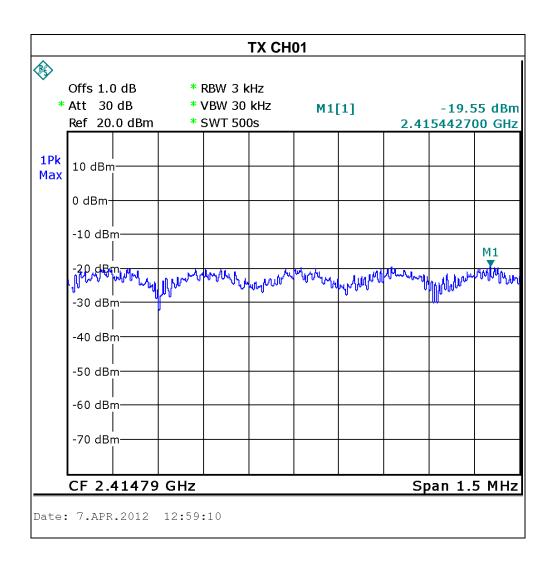
#### \* RBW 3 kHz Offs 1.0 dB \* Att 30 dB \* VBW 30 kHz M1[1] -20.99 dBm Ref 2<u>0.0 dBm</u> \* SWT 500s 1Pk 10 dBm Max 0 dBm-

TX CH11

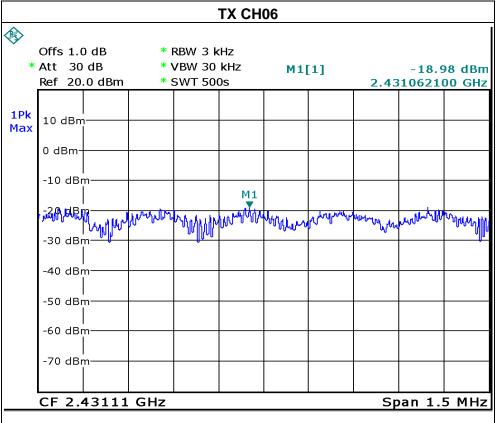


EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE /CH01, CH06, CH11			

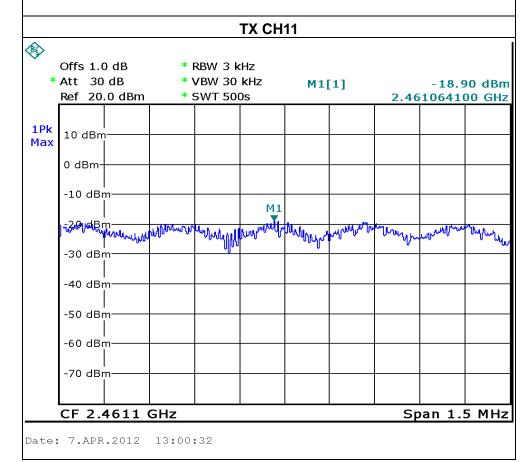
Test Channel Frequency (MHz)		Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-19.55	8
CH06	2437 MHz	-18.98	8
CH11	2462 MHz	-18.90	8



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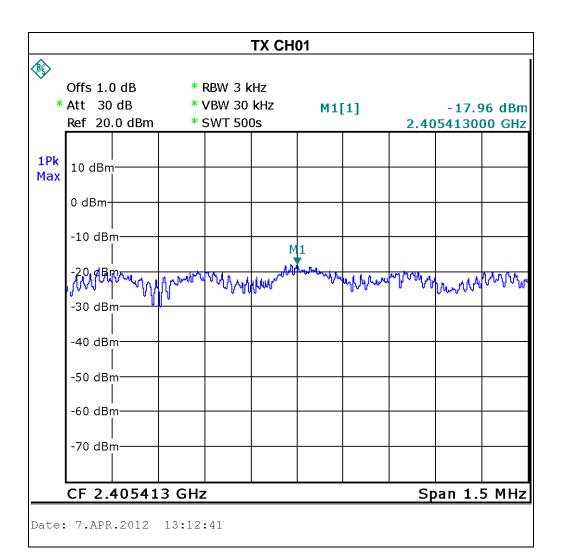
Date: 7.APR.2012 12:59:52



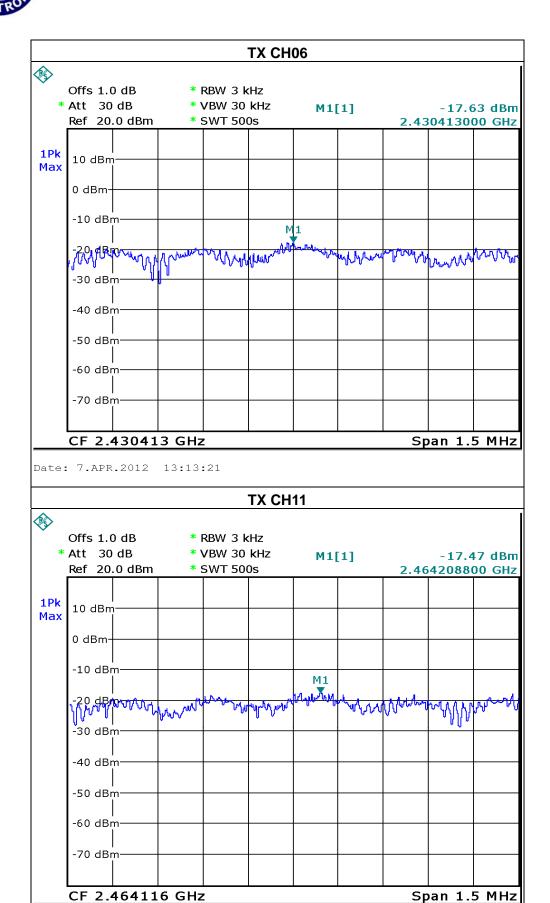
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I E U J I	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode : TX N MODE-20MHz /CH01, CH06, CH11				

Test Channel	Frequency (MHz)	Power density (dBm)	LIMIT (dBm)	PASS/FAIL
CH01	2412	-17.96	8	PASS
CH06	2437	-17.63	8	PASS
CH11	2462	-17.47	8	PASS



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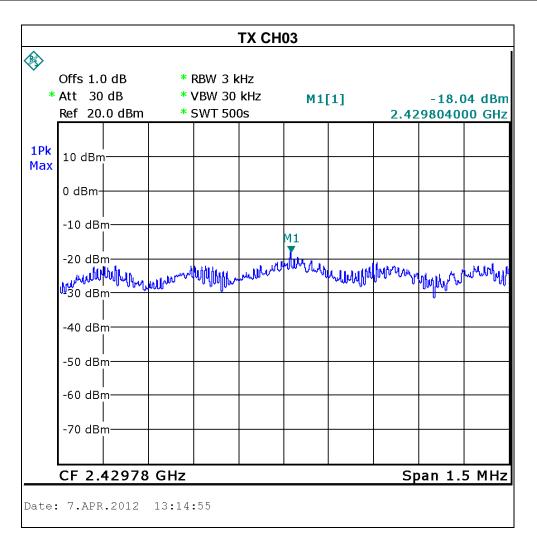


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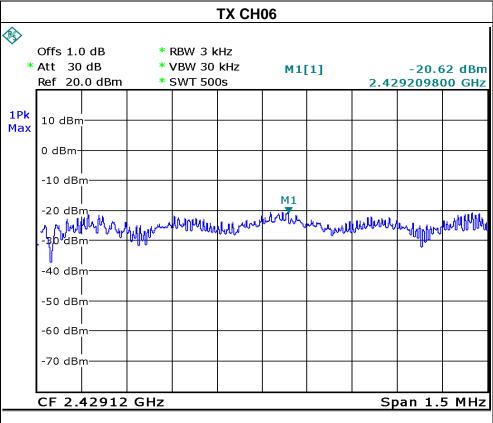
Date: 7.APR.2012 13:13:58

EUT:	150Mbps NANO Wireless-N USB Adapter	Model Name :	WF2120	
Temperature:	<b>24</b> ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	est Mode : TX N MODE-40MHz /CH03, CH06, CH09			

Test Channel	Frequency (MHz)	Power density (dBm)	LIMIT (dBm)	PASS/FAIL
CH03	2422	-18.04	8	PASS
CH06	2437	-20.62	8	PASS
CH09	2452	-17.62	8	PASS



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Date: 7.APR.2012 13:15:35

## **TX CH09** Offs 1.0 dB \* RBW 3 kHz \* Att 30 dB \* VBW 30 kHz M1[1] -17.62 dBm Ref 20.0 dBm \* SWT 500s 2.459804000 GHz 1Pk 10 dBm Max 0 dBm--10 dBm М1 -20 dBm hamppy flywar will-per -30 dBm -40 dBm -50 dBm -60 dBm . -70 dBm-CF 2.45978 GHz Span 1.5 MHz Date: 7.APR.2012 13:16:17

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# 9. EUT TEST PHOTO

# **Conducted Measurement Photos**





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# Radiated Measurement Photos 9K~30MHz





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# Radiated Measurement Photos 30MHz~1000MHz





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# Radiated Measurement Photos Above 1000MHz





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