



# FCC Radio Test Report

## FCC ID: T58NW725P2009R1

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

**Issued Date** : Sep. 04, 2009  
**Project No.** : 0908C037  
**Equipment** : 802.11n High-speed Wireless Broadband Router  
**Model Name** : NW725 PLUS  
**Applicant** : Netcore Technology INC  
**Address** : 9F,B Block,Research&Development Building,  
 Tsing Hua Information Park,High-Tech Industrial  
 Park North Section,Nanshan,Shenzhen,China  
**Manufacturer** : Netcore Technology INC  
**Address** : 10th Building ,SanKeng Industrial District,  
 Qinghutou,Tangxia Town,Dongguan City,  
 Guangdong Province

**Tested by:**  
 Neutron Engineering Inc. EMC Laboratory

**Date of Test:**  
 Aug. 07, 2009 ~ Sep. 03, 2009

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### **Declaration**

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

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### **Limitation**

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## 1. CERTIFICATION

Equipment : 802.11n High-speed Wireless Broadband Router  
Brand Name : Netcore  
Model Name : NW725 PLUS  
Applicant : Netcore Technology INC  
F a c t o r y : Netcore Technology INC  
A d d r e s s : 10th Building ,SanKeng Industrial District,Qinghutou,Tangxia Town,Dongguan  
City,Guangdong Province  
Date of Test : Aug. 07, 2009 ~ Sep. 03, 2009  
Standards : FCC Part15, Subpart C(15.247) / ANCI C63.4 : 2003

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0908C037) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



**2. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

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

**NOTE:**

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

(2) This test report covers EUT radio function only. Its receive function testing is covered in another DOC test report: NEI-FCCE-1-0908C037.



**2.1 TEST FACILITY**

The test facilities used to collect the test data in this report is **C01/OS01 (FCC Test Firm Number: 95335)** at the location of No.132-1, Lane 329, Sec. 2, Palian Road, Shijr City, Taipei, Taiwan.

**2.2 MEASUREMENT UNCERTAINTY**

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

A. Conducted Measurement :

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

B. Radiated Measurement :

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



**3. GENERAL INFORMATION**

**3.1 GENERAL DESCRIPTION OF EUT**

Equipment	802.11n High-speed Wireless Broadband Router
Brand Name	Netcore
Model Name	NW705 PLUS
OEM Brand/Model Name	N/A
Model Difference	N/A
Product Description	The EUT is a 802.11n High-speed Wireless Broadband Router.
	Operation Frequency: 2412~2462 MHz
	Modulation Type: 802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter: 802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n(20MHz): 150+ Mbps 802.11n(40MHz): 300+ Mbps
	Number Of Channel: 11CH .Please see Note 2.
	Antenna Designation: Please see Note 3.
	Antenna Gain(Peak): Please see Note 3.
	EIRP Power(Max): 802.11b:15.48 dBm 802.11g:14.45 dBm 802.11N(20MHz):17.44 dBm 802.11N(40MHz):17.33 dBm
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	Please refer to the Note 3.
Power Source	DC Voltage supplied from AC/DC adapter Brand name: DongGuan Supstrong industry CO.,LTD Model name: NQBCD4UL
Power Rating	I/P 100-240VAC~ 50/60Hz, 0.2A O/P 9.0V, 500mA
Connecting I/O Port(s)	Please refer to the User's Manual



Note:

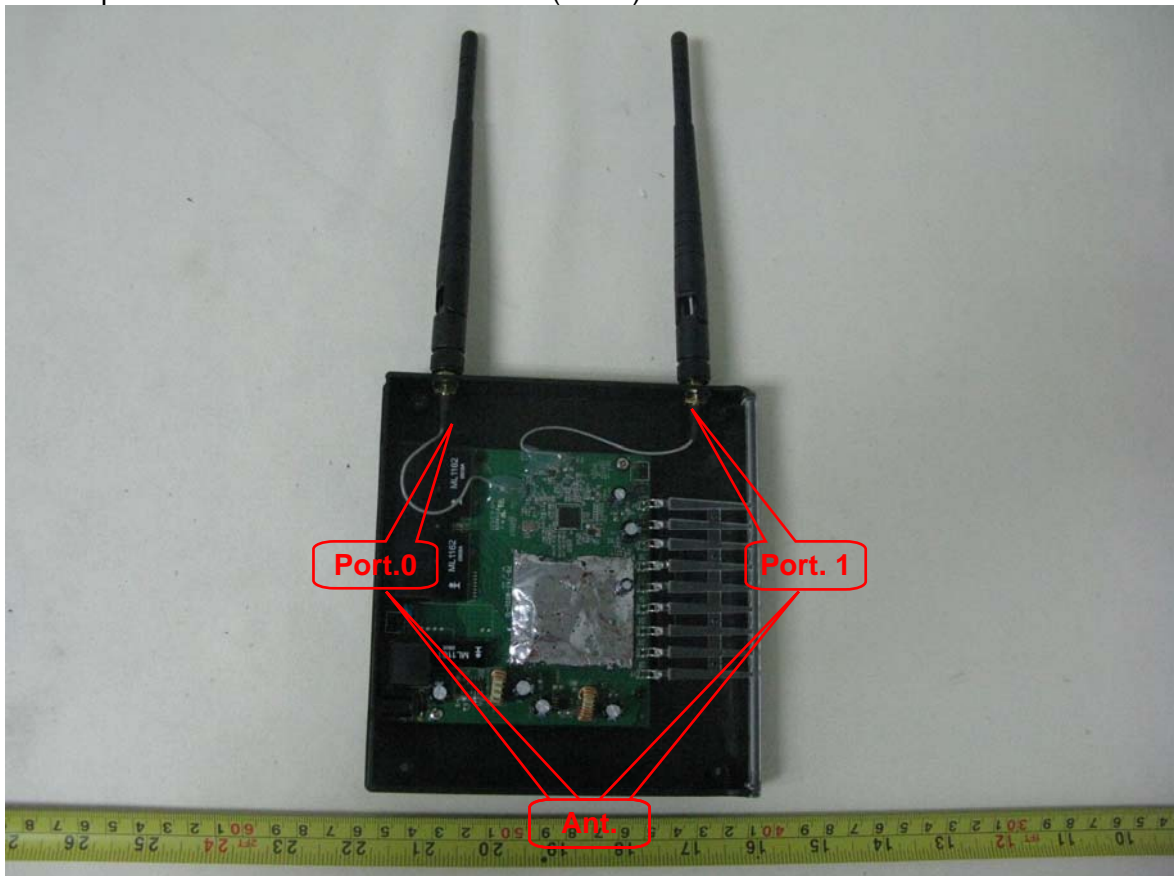
1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz)  
CH 03 – CH 09 for 802.11n(40MHz)

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

3. Table for Filed Antenna

Brand	Model Name	Antenna Type	Connector	Gain (dBi)
Cortec	AN2400-5301RS	Dipole	R-SMA	3.0

The chip Realtek RTL8192SE Function is (2T2R)





4 The EUT incorporates MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R)

Modulated type	TX Function
802.11b	1TX
802.11g	1TX
Draft 802.11n(20MHz)	2TX
Draft 802.11n(40MHz)	2TX



**3.2 DESCRIPTION OF TEST MODES**

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

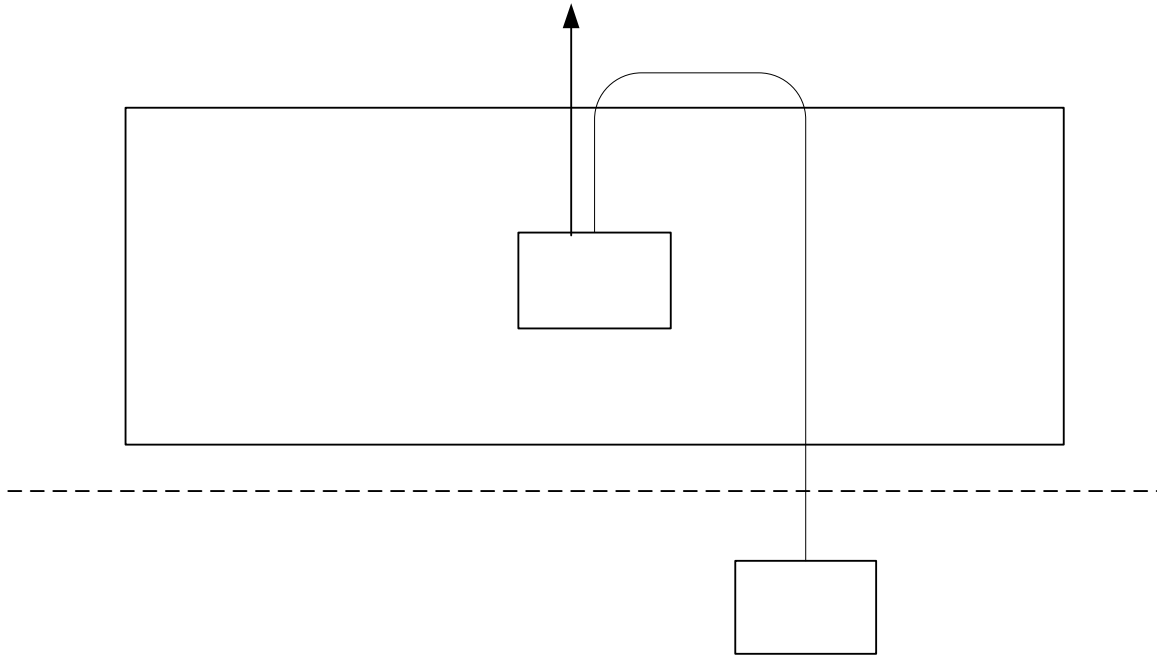
Pretest Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11
Mode 2	802.11g/CH01, CH06, CH11
Mode 3	802.11n/20M/CH01, CH06, CH11 (Port. 0, Port. 1 or Port. 0 + Port. 1)
Mode 4	802.11n/40M/CH03, CH6, CH9 (Port. 0, Port. 1 or Port. 0 + Port. 1)

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

For Radiated Test	
Final Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11
Mode 2	802.11g/CH01, CH06, CH11
Mode 3	802.11n/20M/CH01, CH06, CH11 (Port. 0 + Port. 1)
Mode 4	802.11n/40M/CH03, CH6, CH9 (Port. 0 + Port. 1)



**3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



C-2

E-  
EU



**3.4 DESCRIPTION OF SUPPORT UNITS**

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	802.11n High-speed Wireless Broadband Router	Netcore	NW725 PLUS	T58NW725P2009R1	N/A	EUT
E-2	PC	Lenovo	H2510	DOC	SS07999198	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10M	RJ-45 Line
C-2	NO	YES	1.2M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

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	Test Program: MP-Test		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	38	25	25
IEEE 802.11g OFDM	60	60	60
11N-20MHz-Ant.A	55	55	55

Test software Version	Test Program: MP-Test		
Frequency	2422 MHz	2437 MHz	2452 MHz
11N-40MHz-Ant.A	60	60	60



**4. EMC EMISSION TEST**

**4.1 CONDUCTED EMISSION MEASUREMENT**

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

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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

**4.1.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	SR03_C_01 &02	N/A	Aug. 18, 2010
2	LISN	EMCO	3816/2	00042991	Jan. 21, 2010
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Dec. 28, 2009
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 17, 2010

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

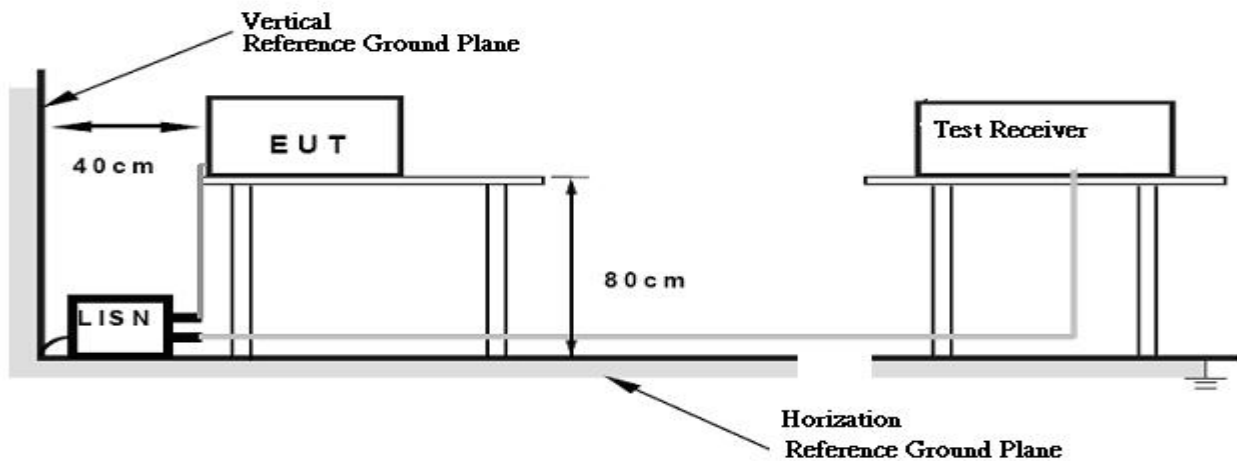
#### 4.1.3 TEST PROCEDURE

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

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP





**4.1.6 EUT OPERATING CONDITIONS**

The EUT 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.





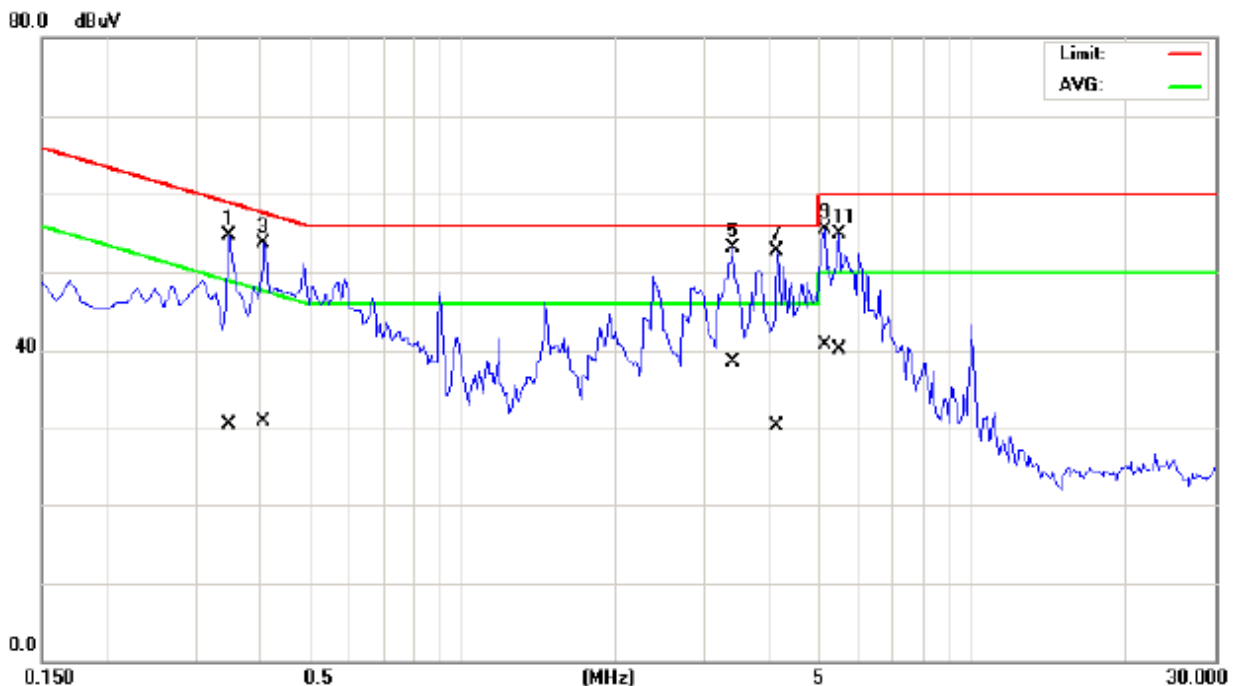
**4.1.7 TEST RESULTS**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	26 °C	Relative Humidity :	51%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.35	Line	54.65	30.53	58.96	48.96	-4.31	(QP)
0.41	Line	53.77	30.93	57.65	47.65	-3.88	(QP)
3.41	Line	53.18	38.48	56.00	46.00	-2.82	(QP)
4.15	Line	52.73	30.31	56.00	46.00	-3.27	(QP)
5.14	Line	55.55	40.76	60.00	50.00	-4.45	(QP)
5.49	Line	54.96	40.09	60.00	50.00	-5.04	(QP)

**Remark**

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.2 sec./MHz ◦ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.2 sec./MHz ◦
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ◦ In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured ◦
- (3) Measuring frequency range from 150KHz to 30MHz ◦



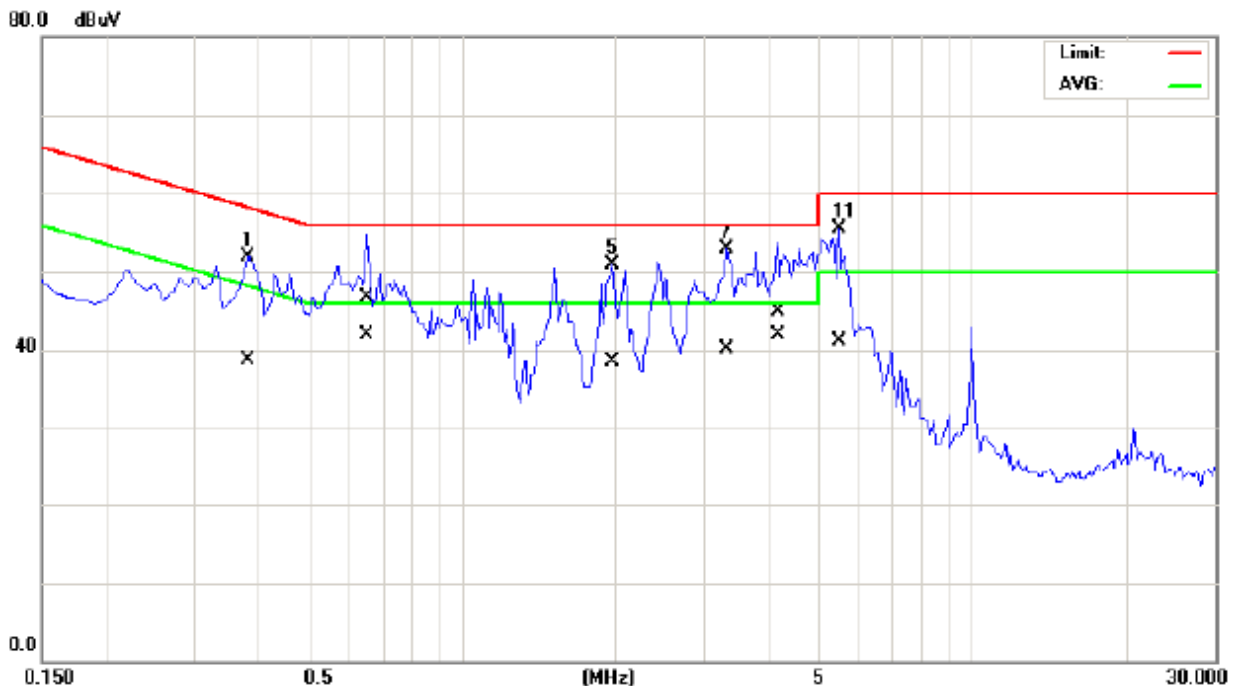


E.U.T :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	28 °C	Relative Humidity :	58%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.38	Neutral	51.92	38.66	58.28	48.28	-6.36	(QP)
0.65	Neutral	46.64	41.84	56.00	46.00	-4.16	(AV)
1.97	Neutral	50.81	38.48	56.00	46.00	-5.19	(QP)
3.30	Neutral	52.92	40.02	56.00	46.00	-3.08	(QP)
4.16	Neutral	44.86	41.96	56.00	46.00	-4.04	(AV)
5.48	Neutral	55.42	41.14	60.00	50.00	-4.58	(QP)

**Remark**

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz ; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.2 sec./MHz ◦ Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.2 sec./MHz ◦
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ◦ In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured ◦
- (3) Measuring frequency range from 150KHz to 30MHz ◦





**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 (MHz)	Field Strength (micovolts/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

**LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)**

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

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



**4.2.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 23, 2010
2	Test Cable	N/A	LMR-400	N/A	Jan. 05, 2010
3	Test Cable	N/A	3M_OS01	N/A	Oct. 08, 2009
4	Test Cable	N/A	OS01-1/-2	N/A	Oct. 08, 2009
5	RF Switch	Anritsu	MP59B	M65982	Aug. 24, 2010
6	Pre-Amplifier	Anritsu	MH648A	M09961	Dec. 29, 2009
7	Positioning Controller (OS01)	MF	MF7802	N/A	N/A
8	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
9	Spectrum Analyzer	ADVAN TEST	R3261C	81720298	Oct. 05, 2009
10	Spectrum Analyzer	HP	8591EM	3536A00687	Mar. 13, 2010
11	EMI Measuring Receiver	SHCAFFNER	SCR 3501	408	Nov. 24.2009

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

**4.2.3 TEST PROCEDURE**

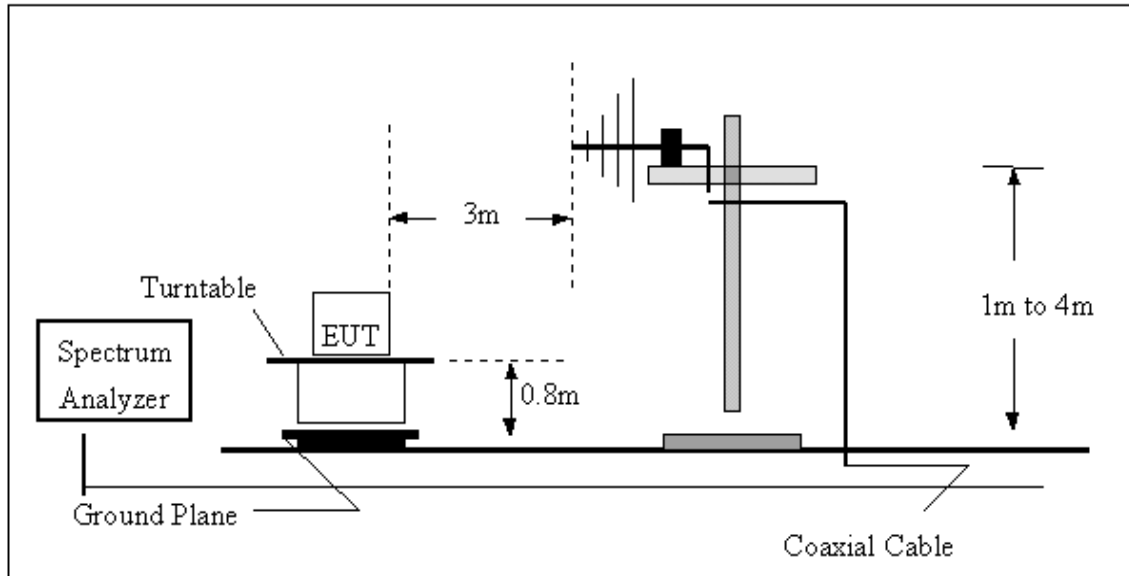
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table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

**4.2.4 DEVIATION FROM TEST STANDARD**

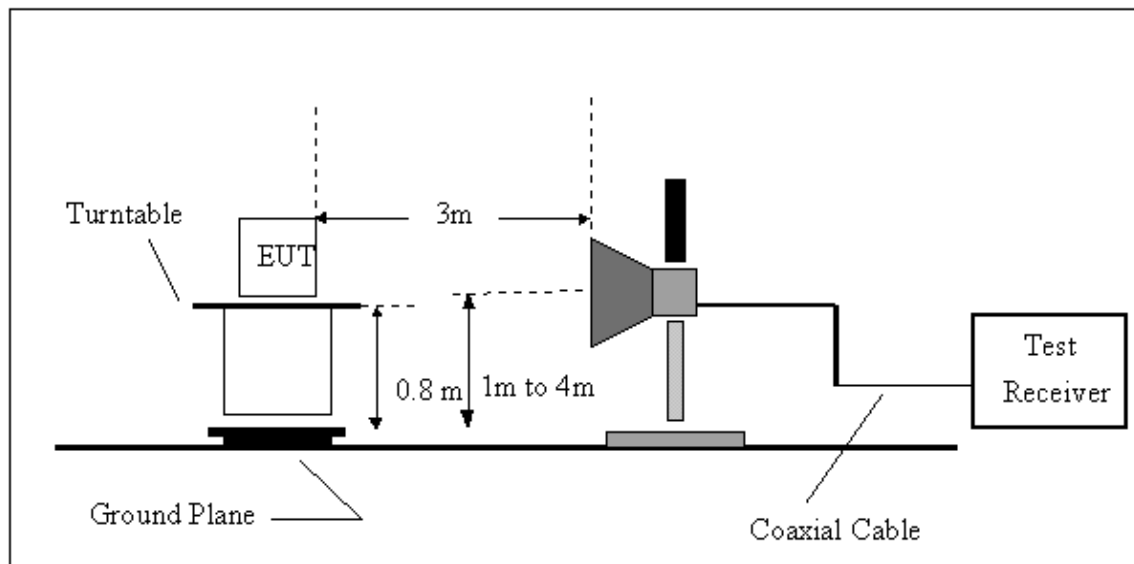
No deviation

#### 4.2.5 TEST SETUP

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



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



#### 4.2.6 EUT OPERATING CONDITIONS

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



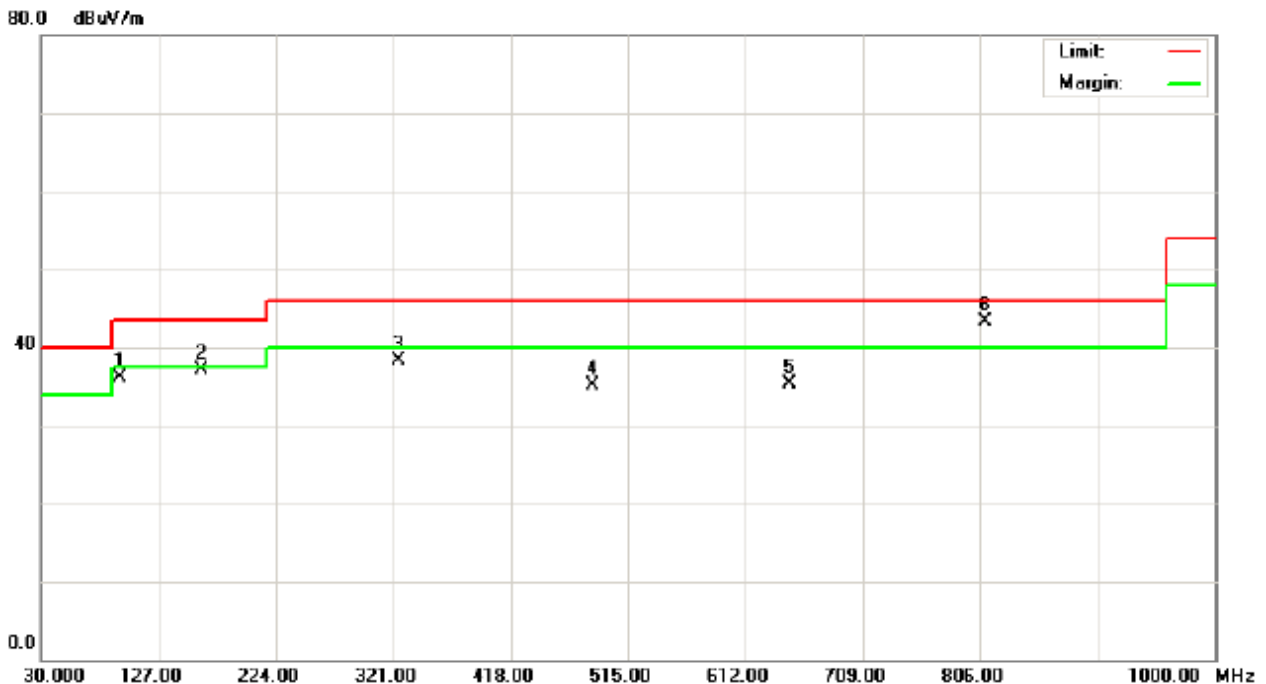
**4.2.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	37 ° C	Relative Humidity :	50 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/CH03		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
94.99	V	56.78	-20.77	36.01	43.50	- 7.49	
161.92	V	53.31	-16.17	37.14	43.50	- 6.36	
323.92	V	53.14	-14.80	38.34	46.00	- 7.66	
485.90	V	45.62	-10.60	35.02	46.00	- 10.98	
648.07	V	42.43	-7.11	35.32	46.00	- 10.68	
810.85	V	47.65	-4.33	43.32	46.00	- 2.68	

Remark :

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



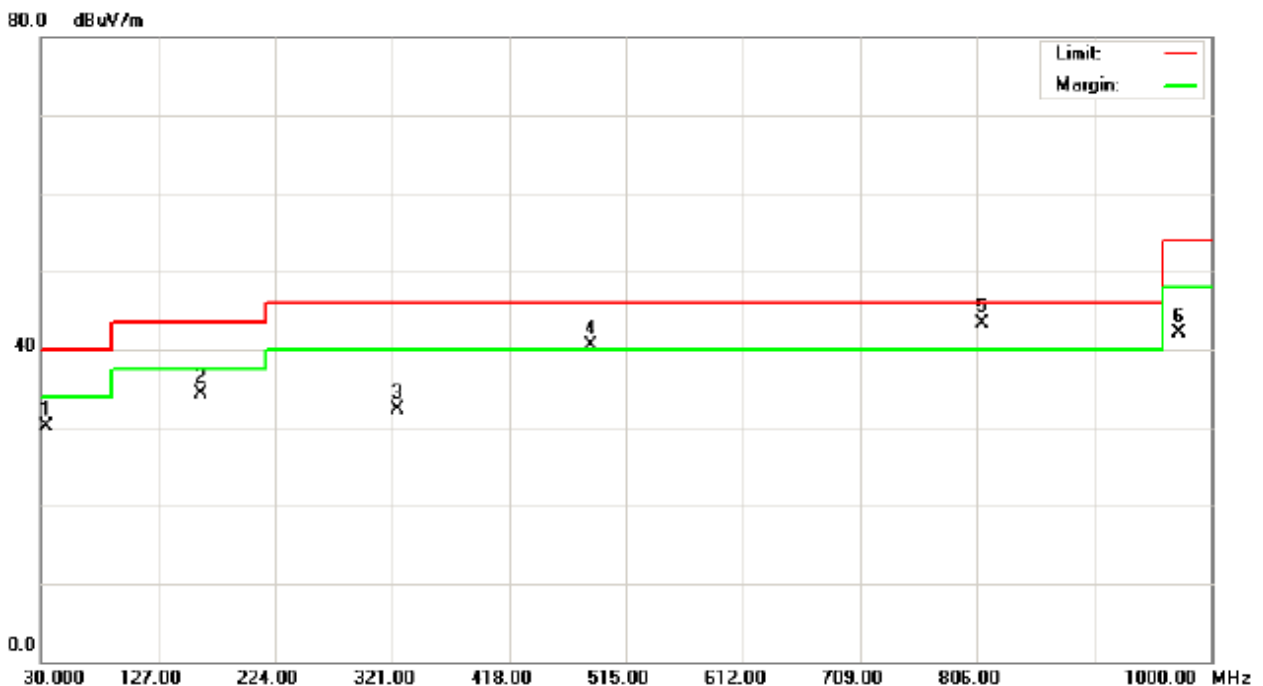


EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	37 °C	Relative Humidity :	50 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/CH03		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBUV)	Corr.Factor(CF) (dB)	Measured(FS) (dBUV/m)	Limits(QP) (dBUV/m)	Margin (dB)	Note
33.88	H	48.62	-18.51	30.11	40.00	- 9.89	
161.92	H	50.49	-16.17	34.32	43.50	- 9.18	
323.92	H	47.14	-14.80	32.34	46.00	- 13.66	
485.90	H	51.02	-10.60	40.42	46.00	- 5.58	
810.85	H	47.56	-4.33	43.23	46.00	- 2.77	
972.84	H	44.49	-2.35	42.14	54.00	- 11.86	

**Remark :**

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





**4.2.8 TEST RESULTS - ABOVE 1000MHZ**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 ° C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	20.40	10.44	32.30	52.70	42.74	74.00	54.00	X/E
2411.00	V	72.78	69.07	32.30	105.08	101.37			X/F
4824.30	V	53.05	50.91	2.48	55.53	53.39	74.00	54.00	X/H

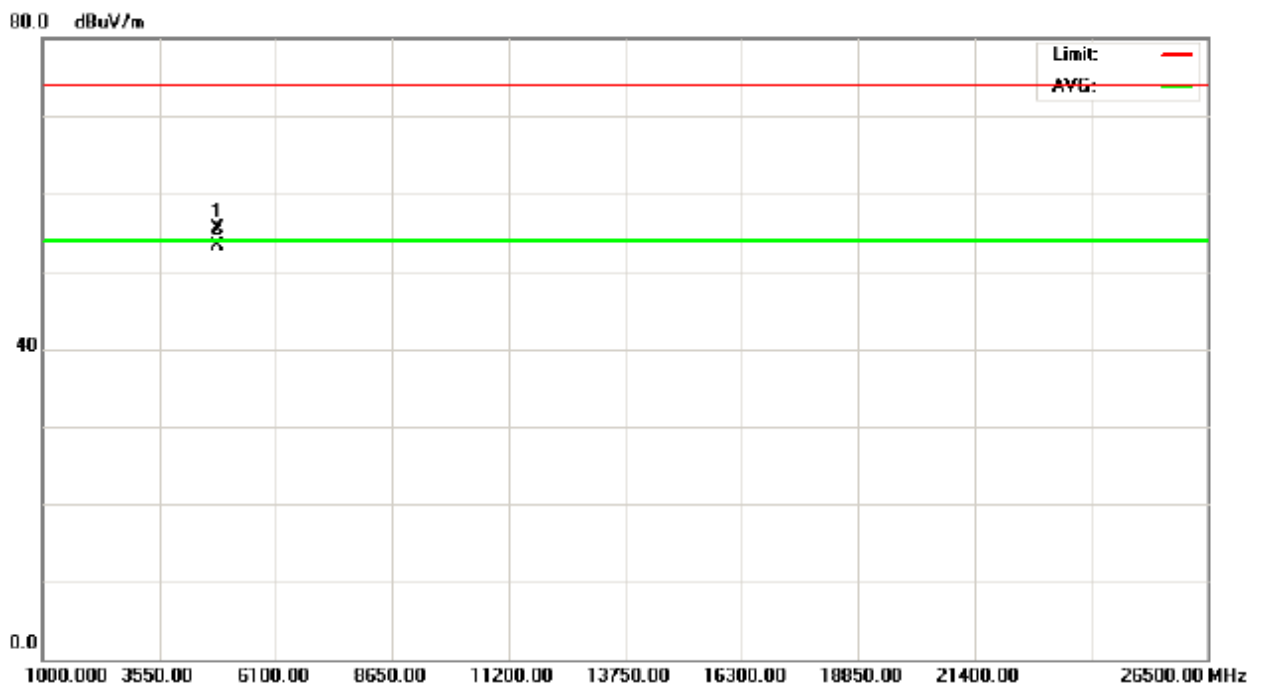
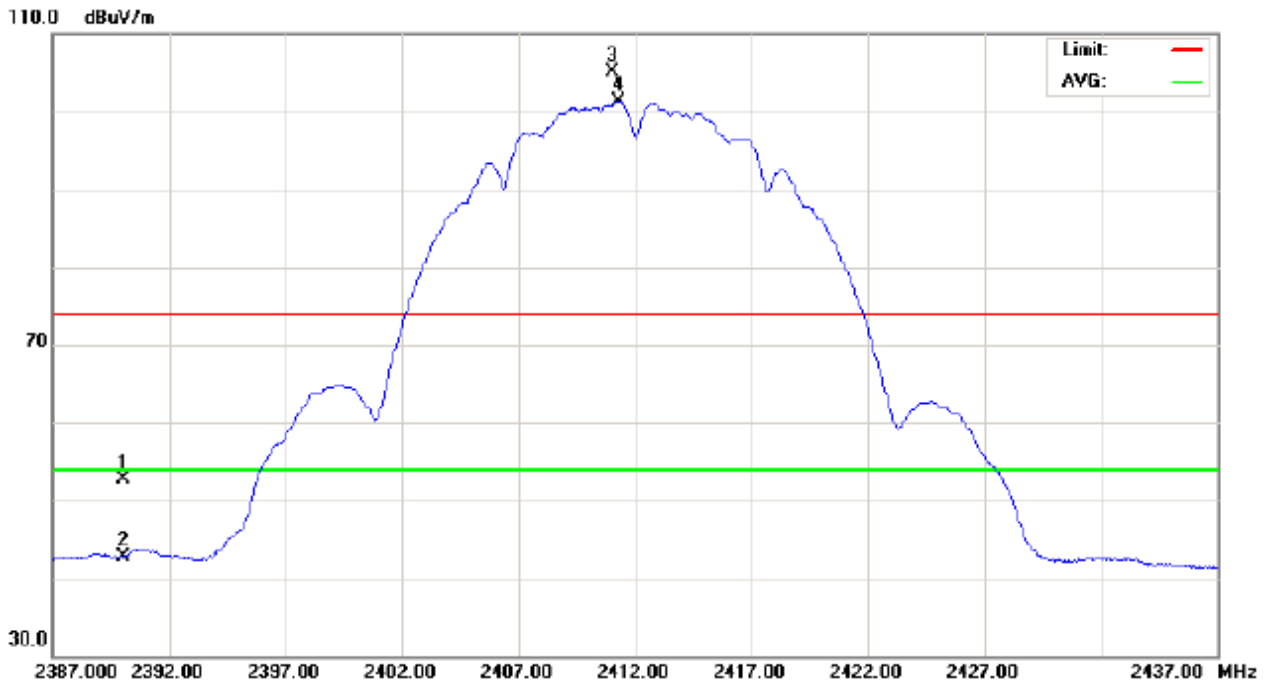
**Remark :**

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





Orthogonal Axis : X  
802.11b/CH01(Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01		

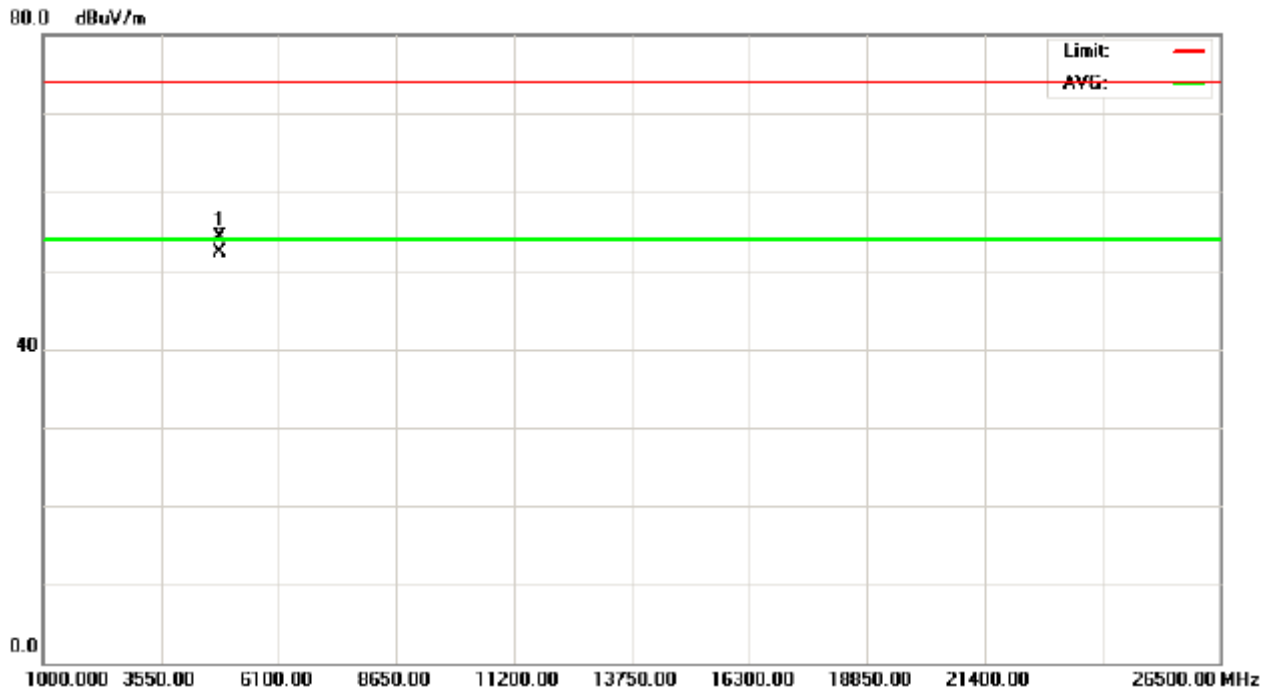
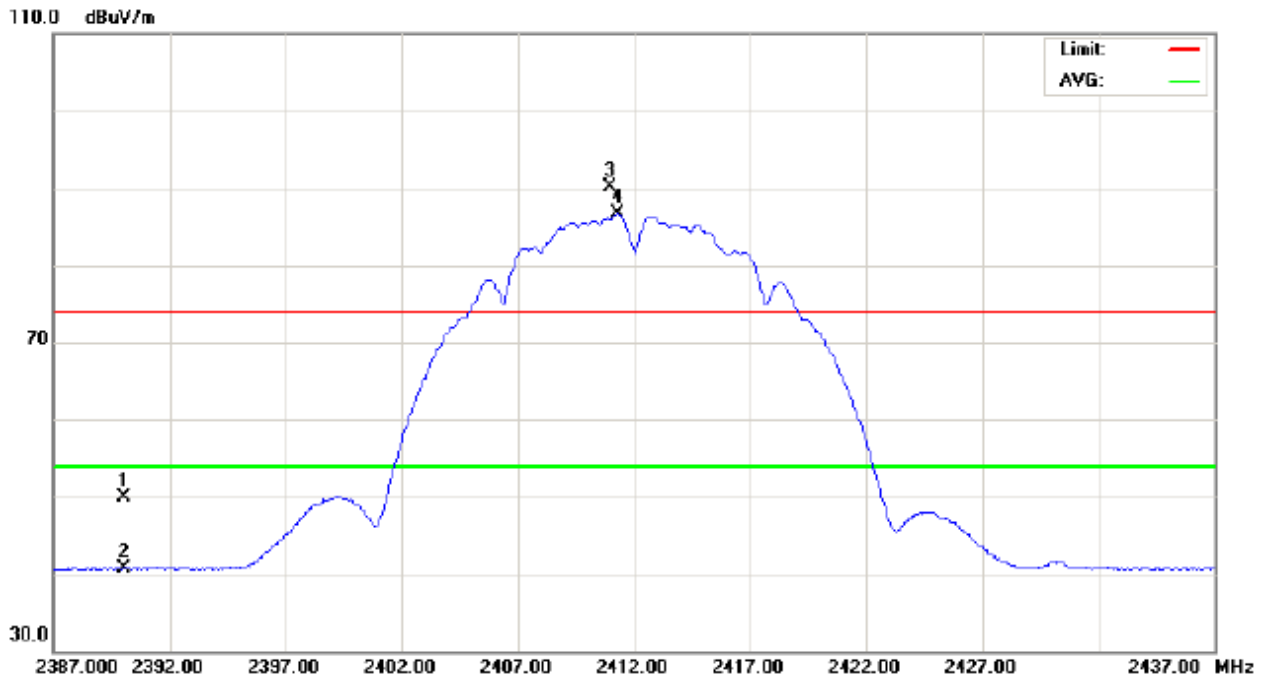
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	17.67	8.39	32.30	49.97	40.69	74.00	54.00	X/E
2411.30	H	57.71	54.31	32.30	90.01	86.61			X/F
4824.30	H	51.84	49.74	2.48	54.32	52.22	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11b/CH01(Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

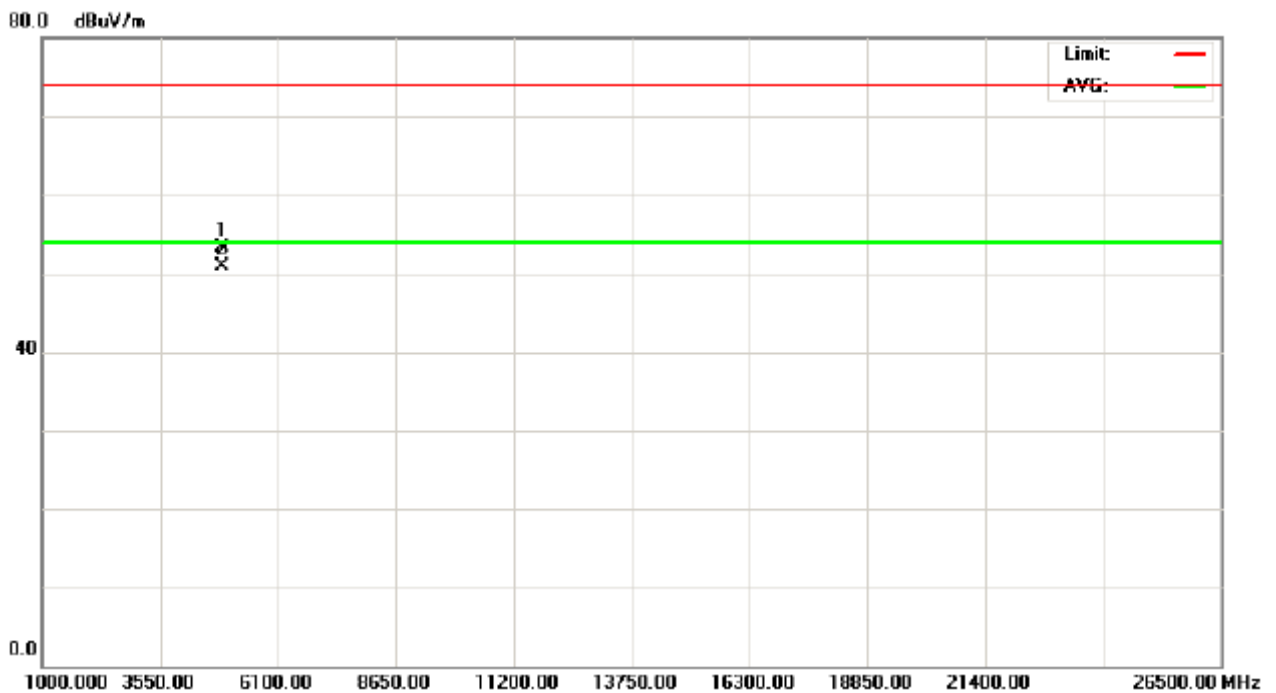
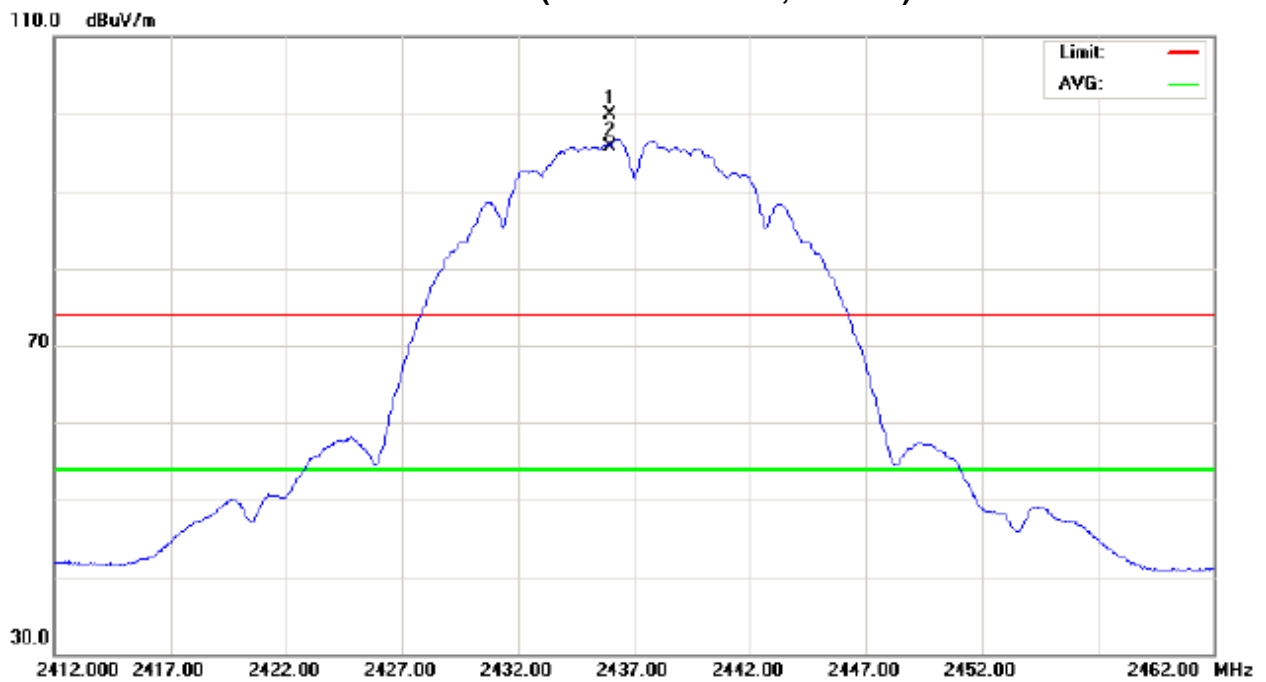
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2435.95	V	67.71	63.33	32.29	100.00	95.62			X/F
4874.03	V	50.81	48.27	2.56	53.37	50.83	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11b/CH06(Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

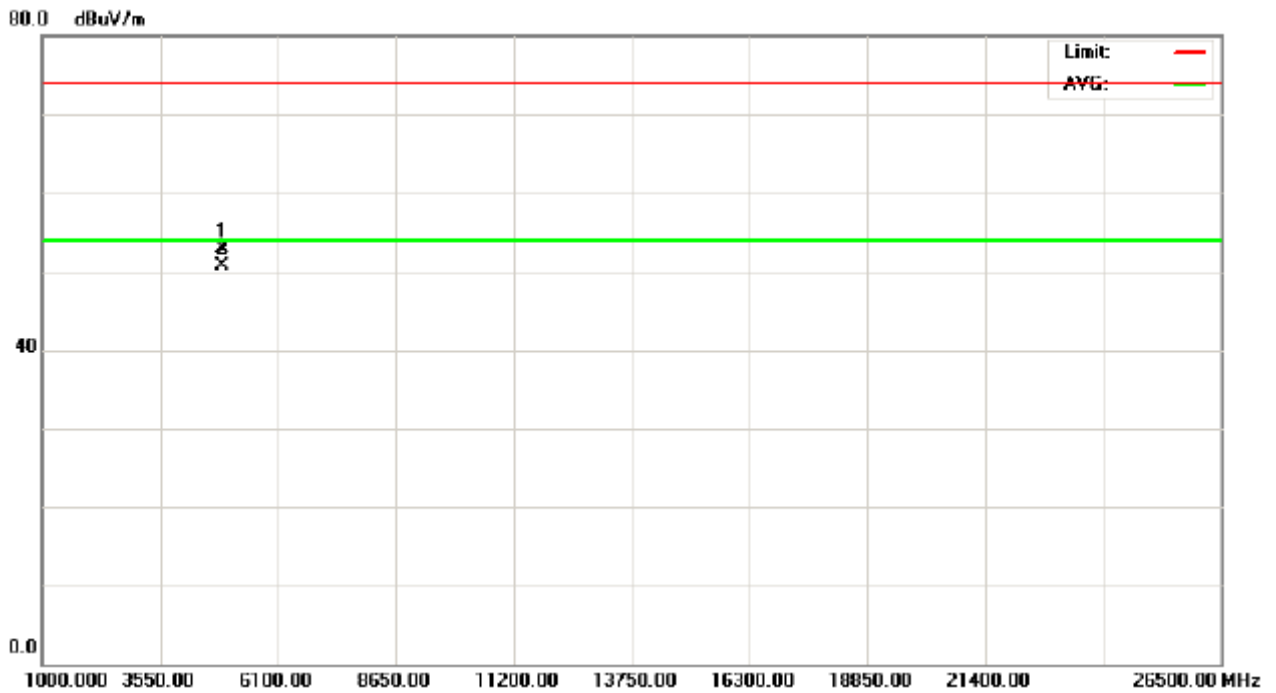
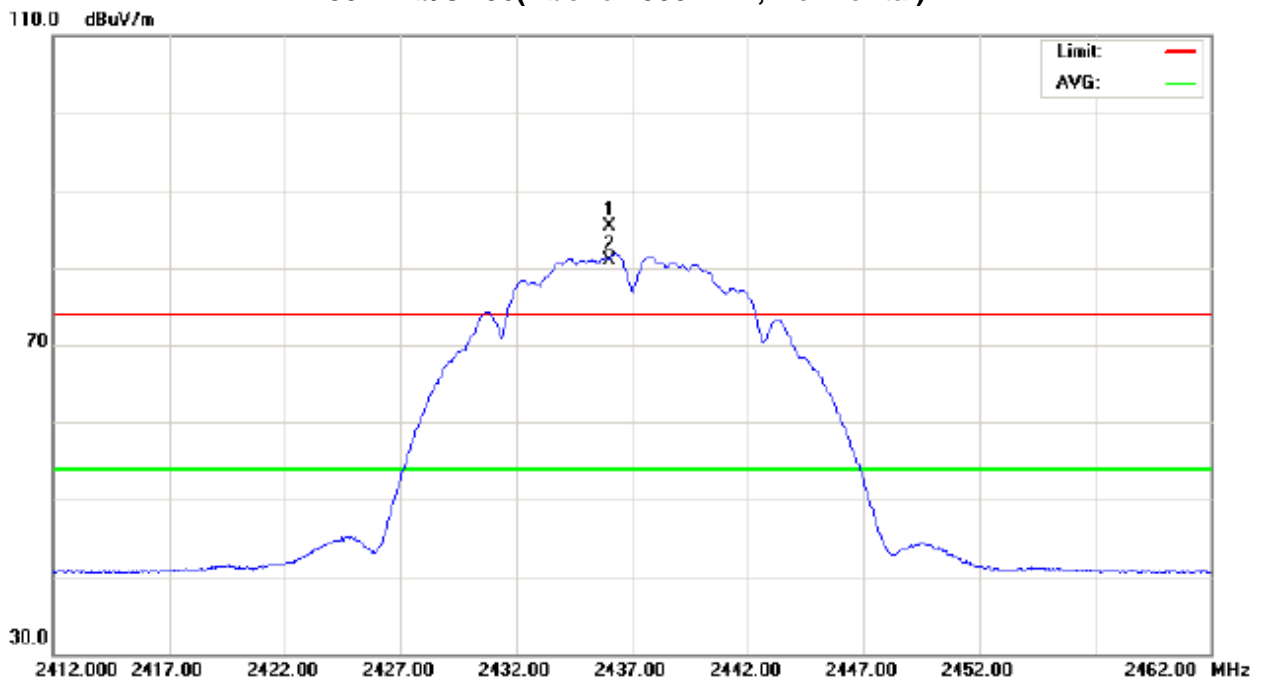
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2436.00	H	53.07	48.68	32.29	85.36	80.97			X/F
4874.03	H	50.31	48.10	2.56	52.87	50.66	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11b/CH06(Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2463.05	V	67.65	64.08	32.29	99.94	96.37			X/F
2483.50	V	20.58	9.63	32.29	52.87	41.92	74.00	54.00	X/E
4924.10	V	50.79	48.53	2.64	53.43	51.17	74.00	54.00	X/H

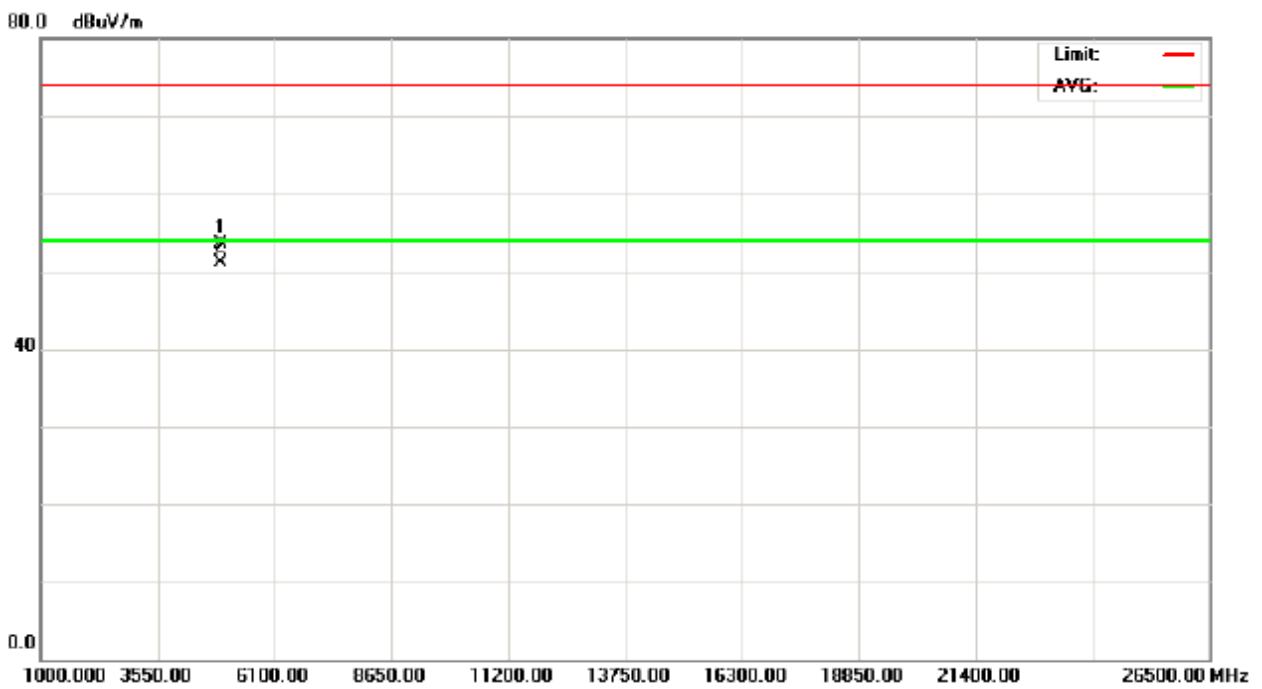
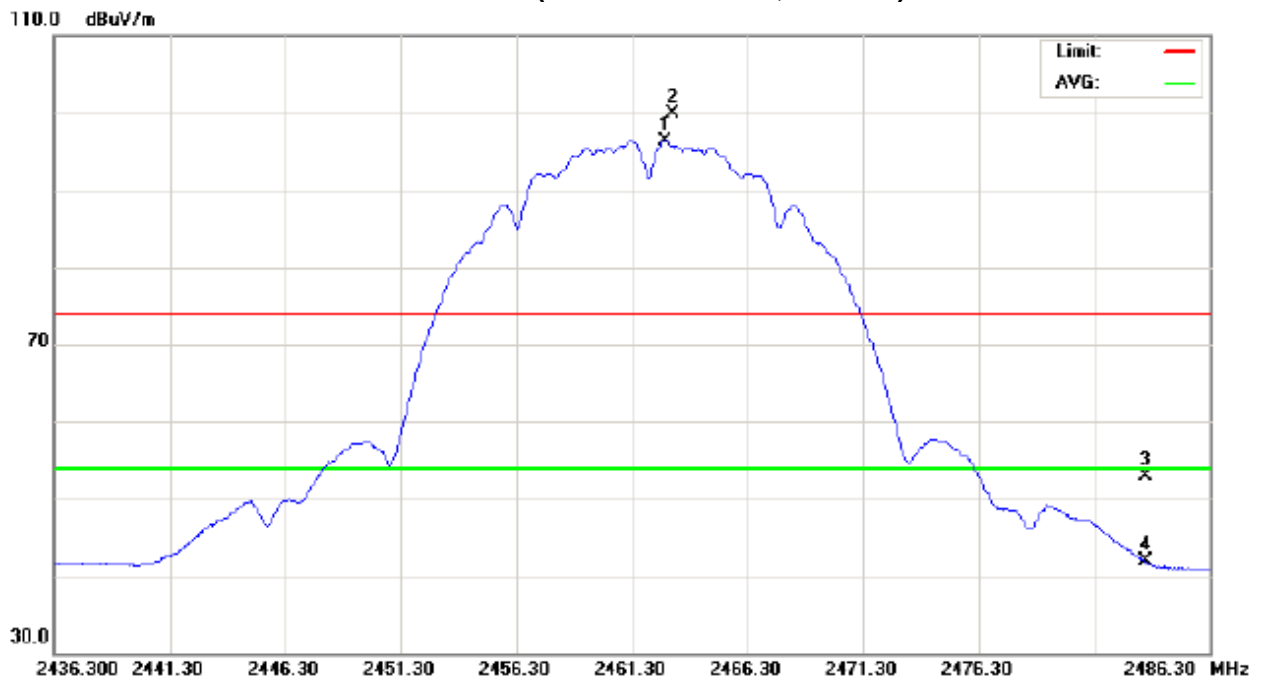
**Remark :**

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





Orthogonal Axis : X  
802.11b/CH11(Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11		

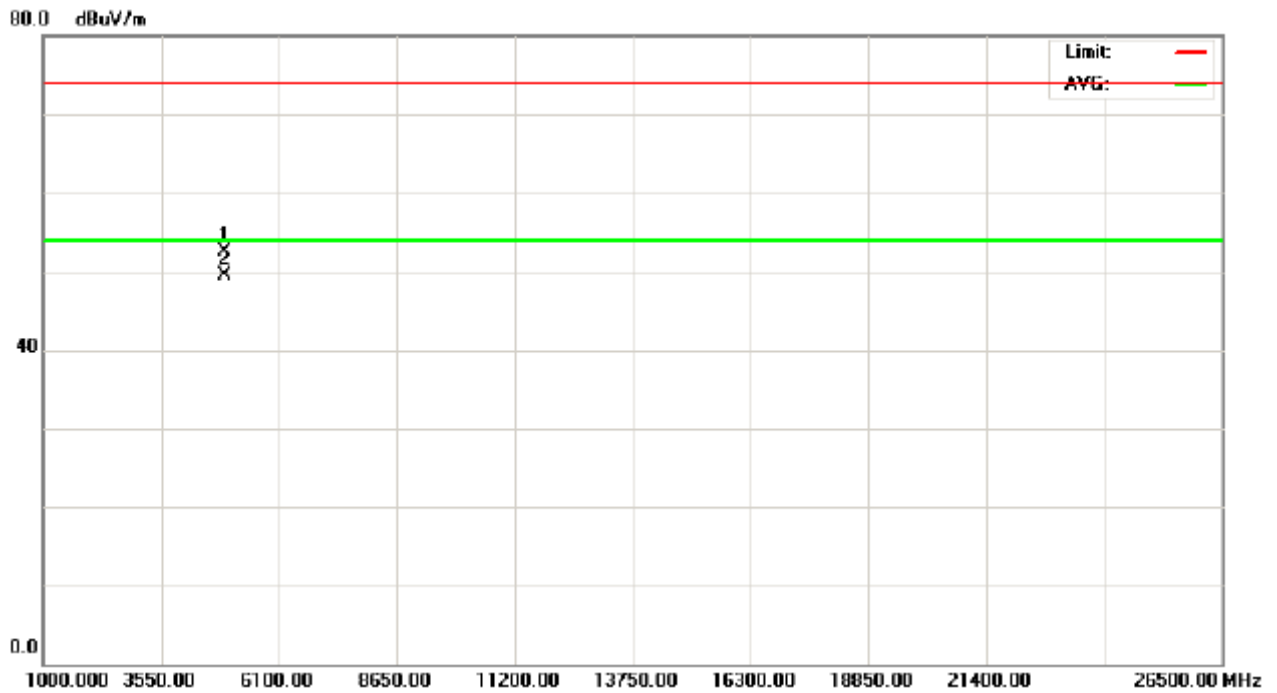
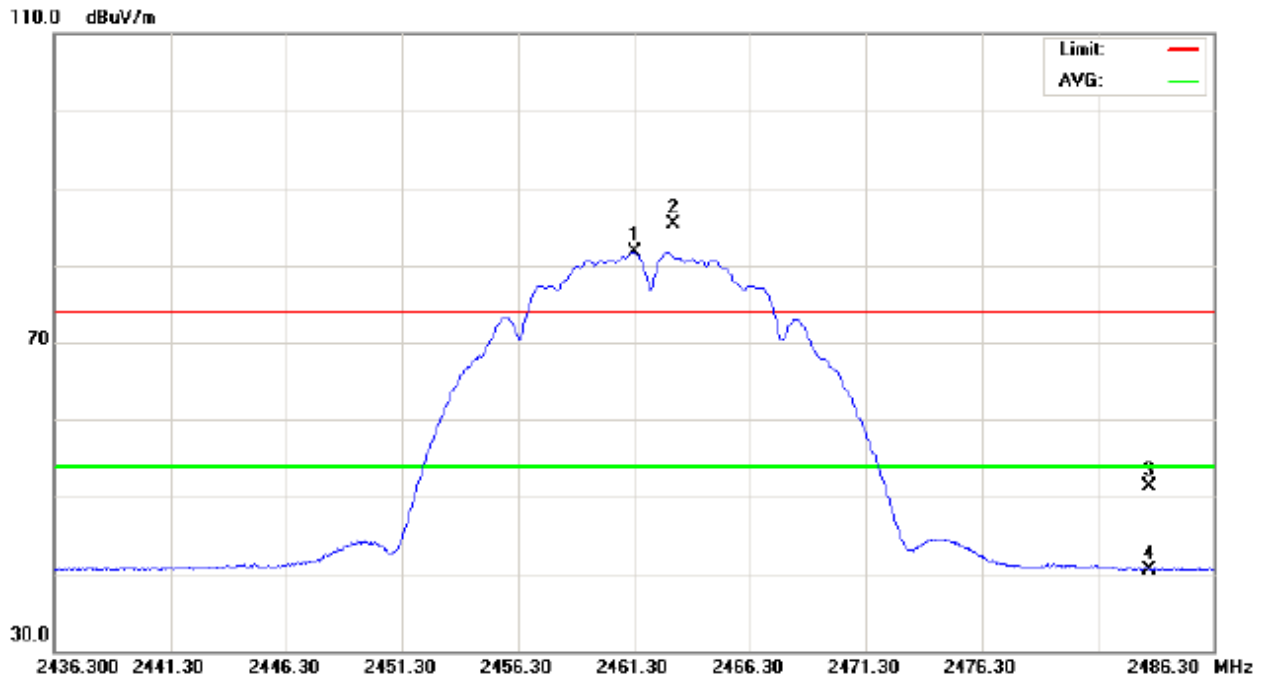
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2463.00	H	53.11	49.43	32.29	85.40	81.72			X/F
2483.55	H	18.95	8.27	32.29	51.24	40.56	74.00	54.00	X/E
4924.10	H	49.81	46.85	2.64	52.45	49.49	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11b/CH11(Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01		

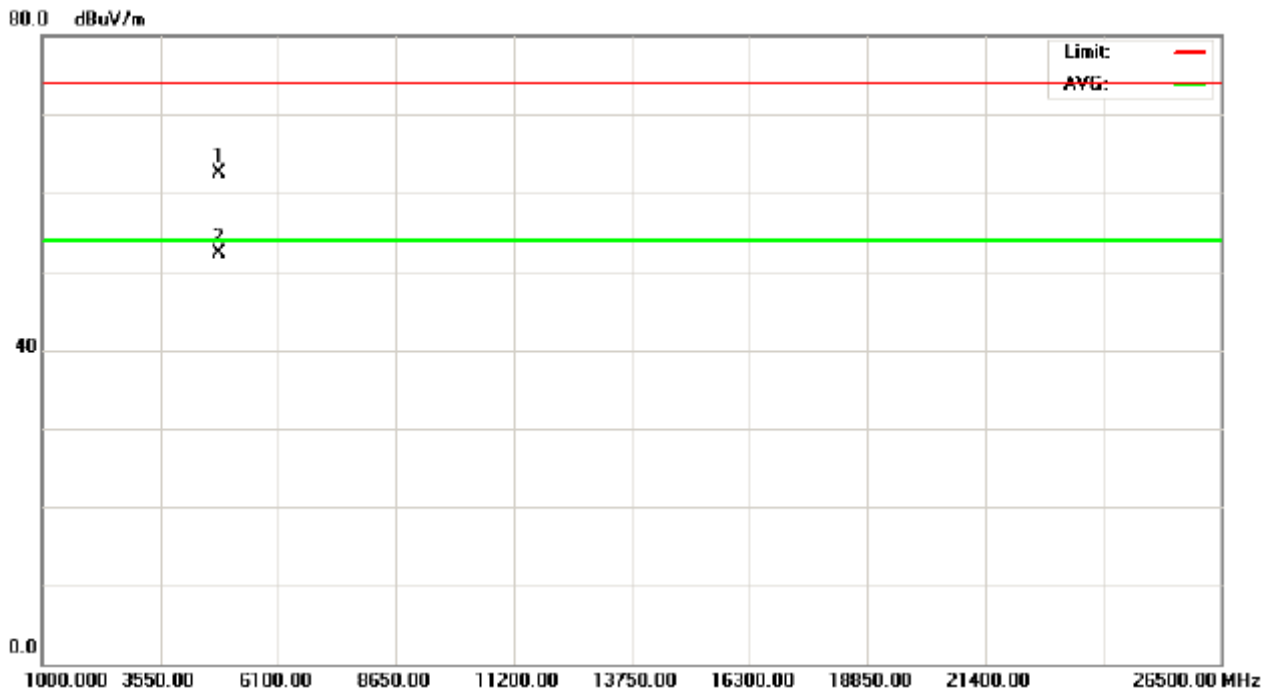
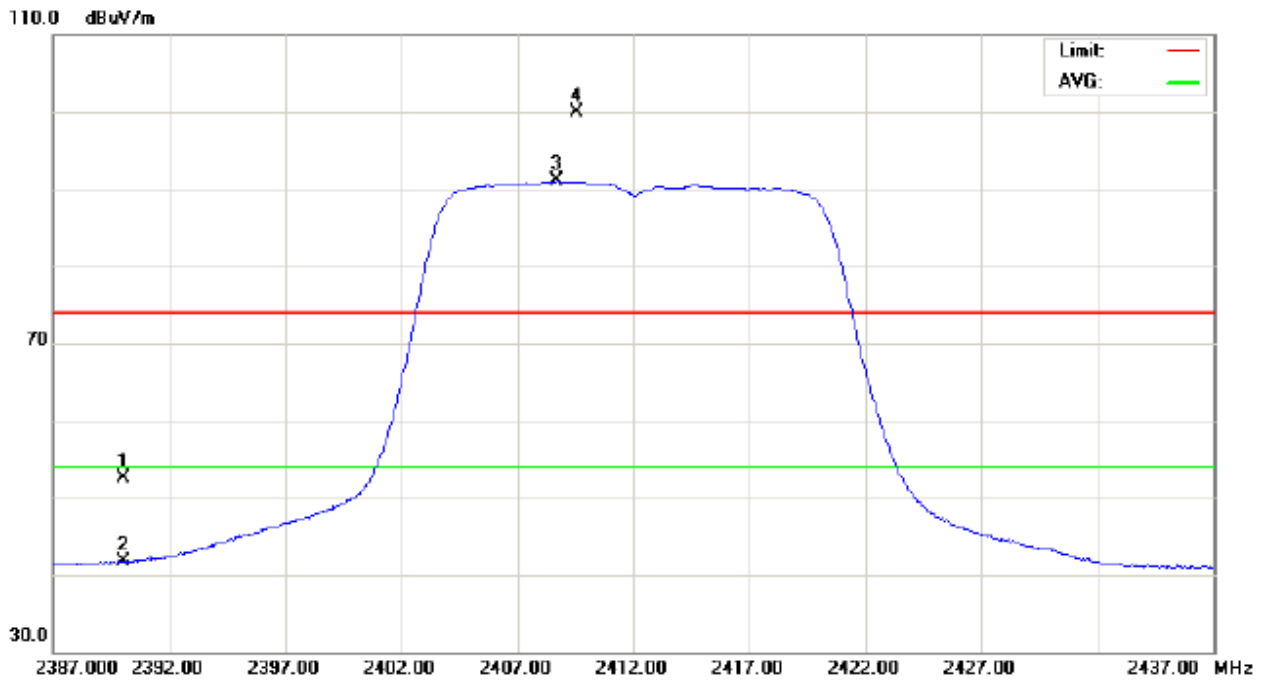
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	20.17	9.45	32.30	52.47	41.75	74.00	54.00	X/E
2409.55	V	67.64	58.73	32.30	99.94	91.03			X/F
4824.00	V	60.60	49.76	2.48	63.08	52.24	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11g/CH01(Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01		

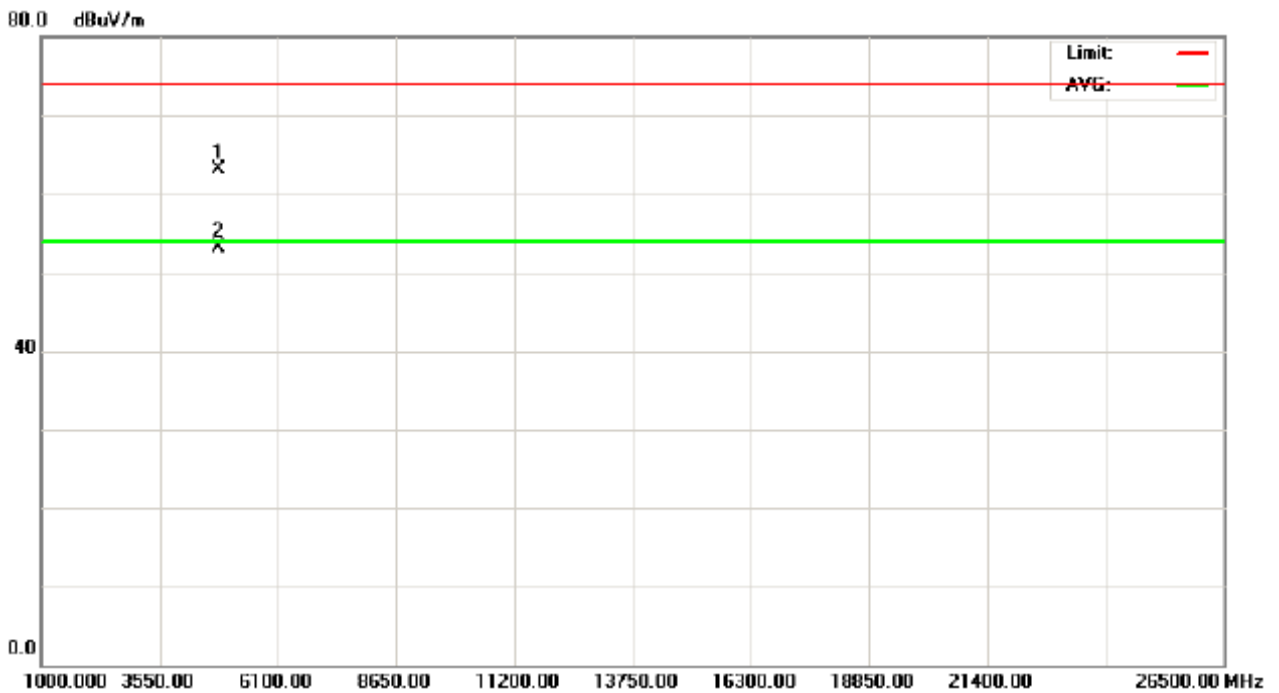
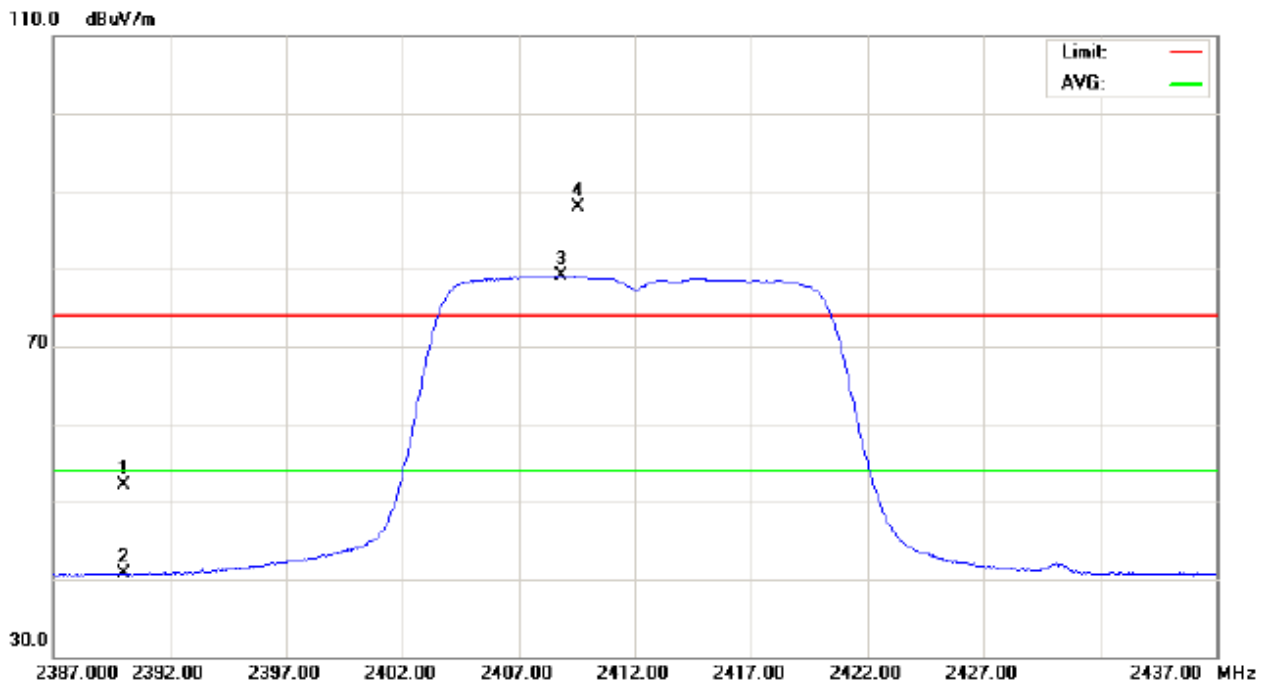
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	9.73	8.40	32.30	42.03	40.70	74.00	54.00	X/E
2409.55	H	55.61	46.76	32.30	87.91	79.06			X/F
4824.30	H	60.68	50.53	2.48	63.16	53.01	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11g/CH01(Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2431.45	V	67.31	58.33	32.30	99.61	90.63			X/F
4874.00	V	56.79	46.57	2.56	59.35	49.13	74.00	54.00	X/H

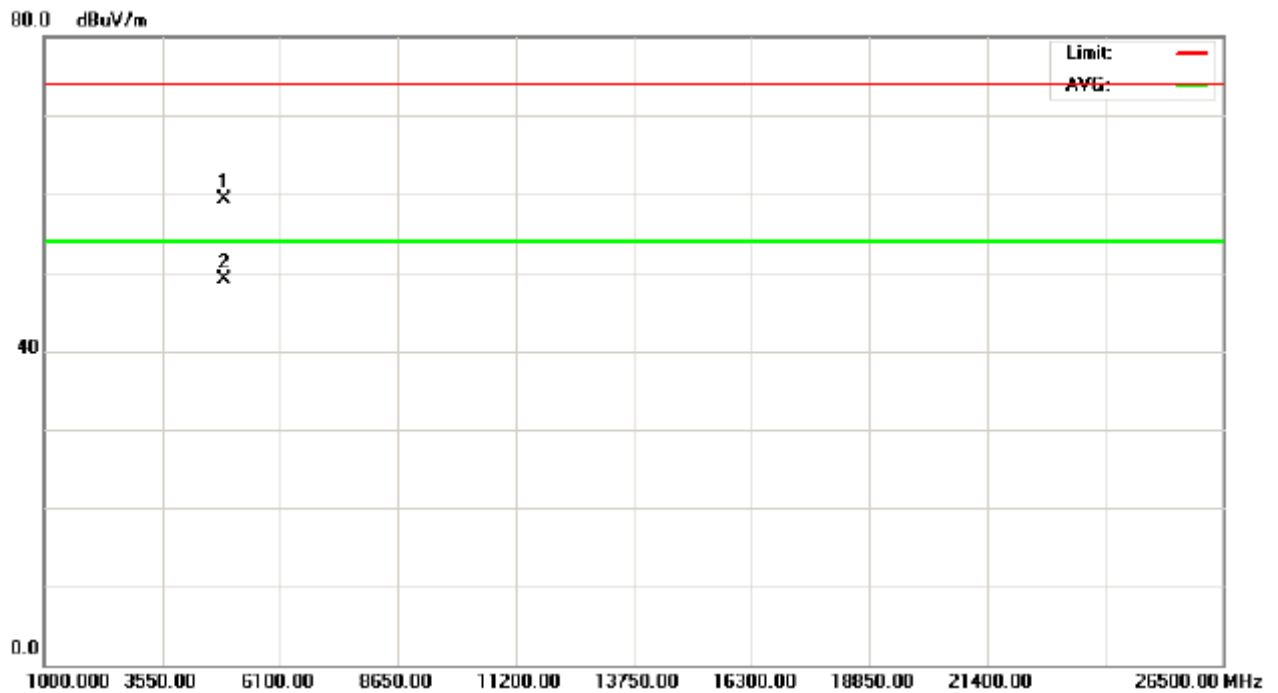
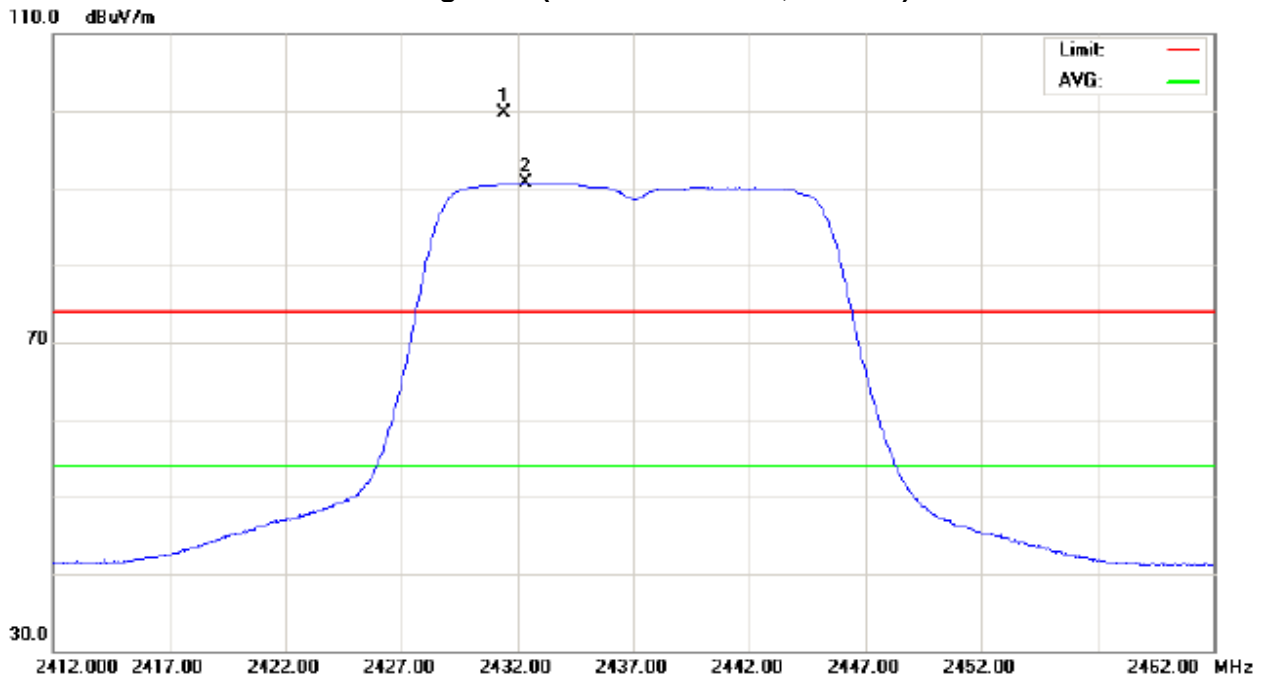
**Remark :**

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





Orthogonal Axis : X  
802.11g/CH06(Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06		

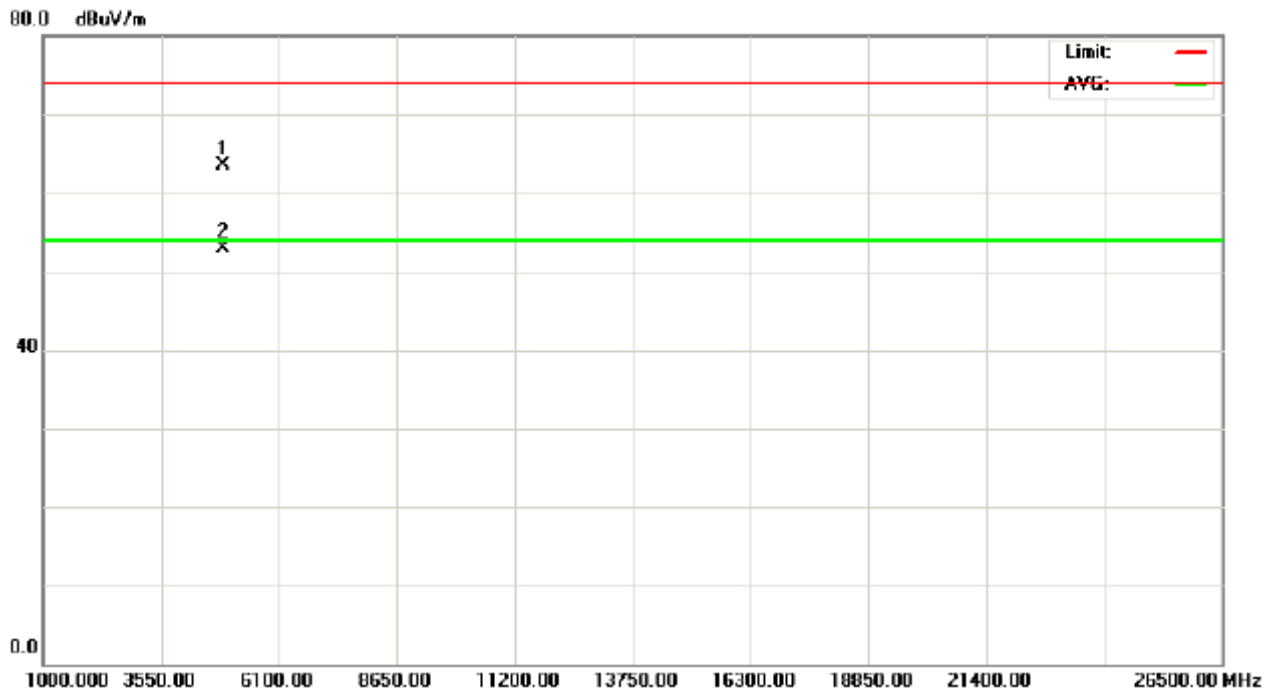
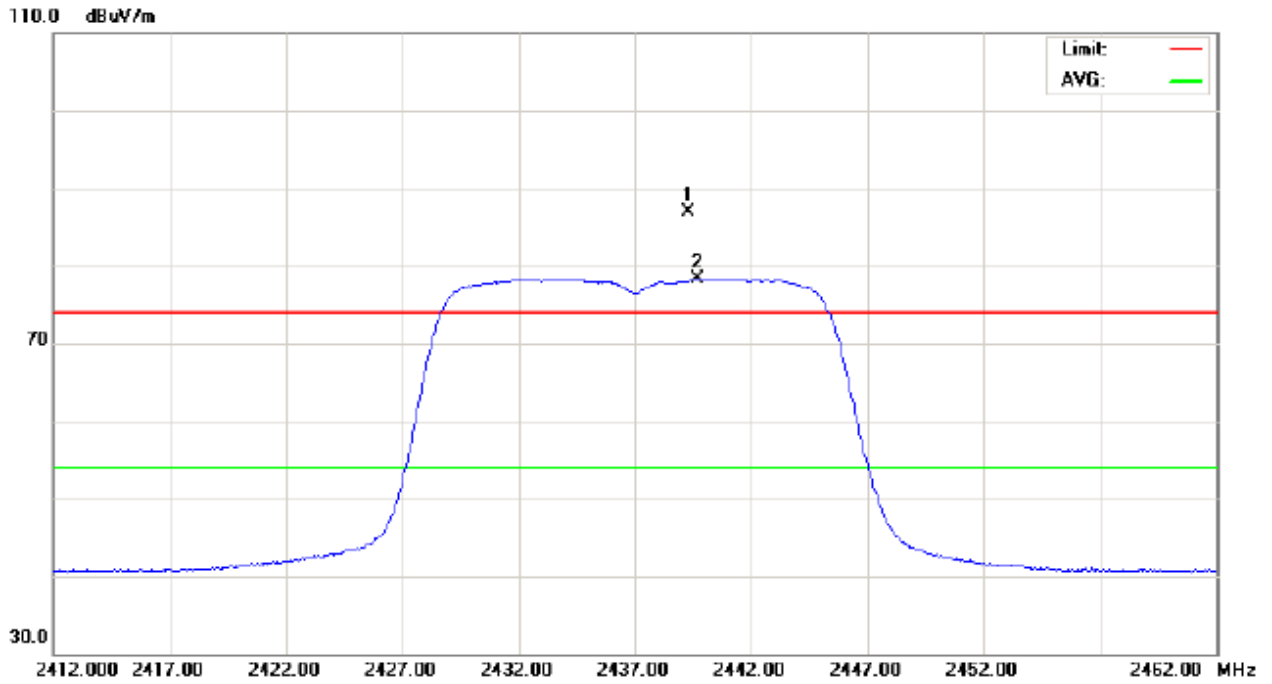
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2439.30	H	54.71	45.99	32.29	87.00	78.28			X/F
4874.00	H	60.88	50.41	2.56	63.44	52.97	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11g/CH06(Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11		

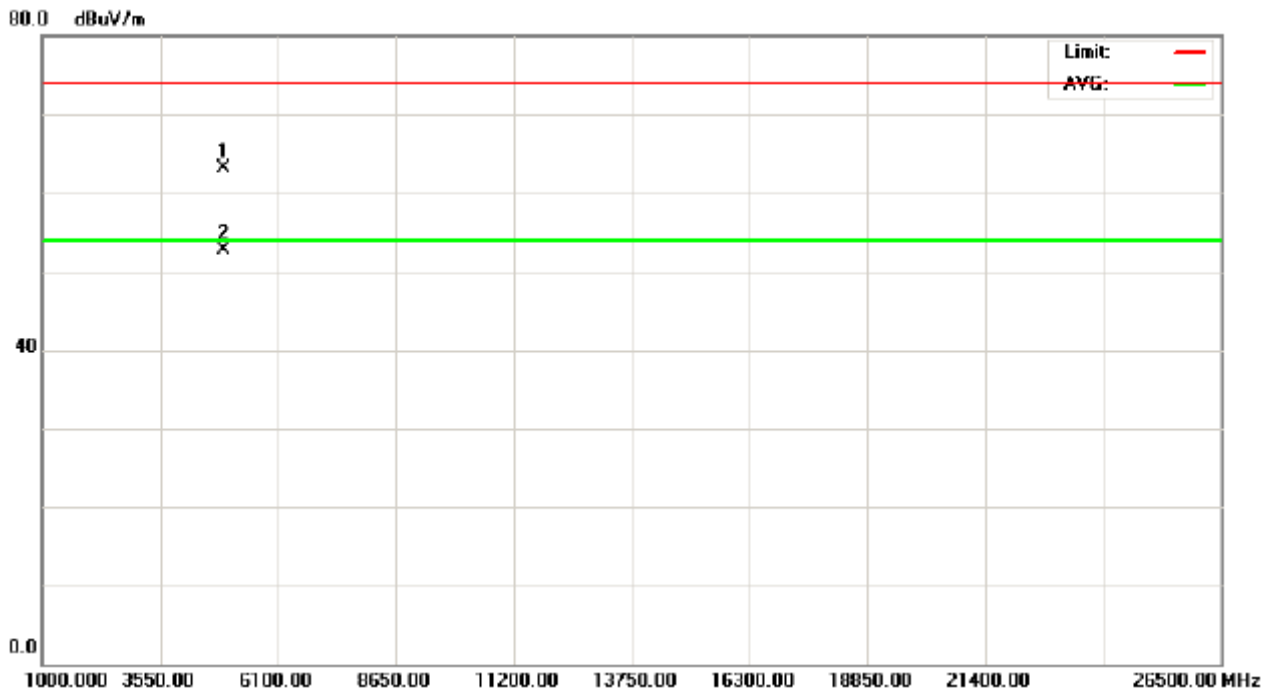
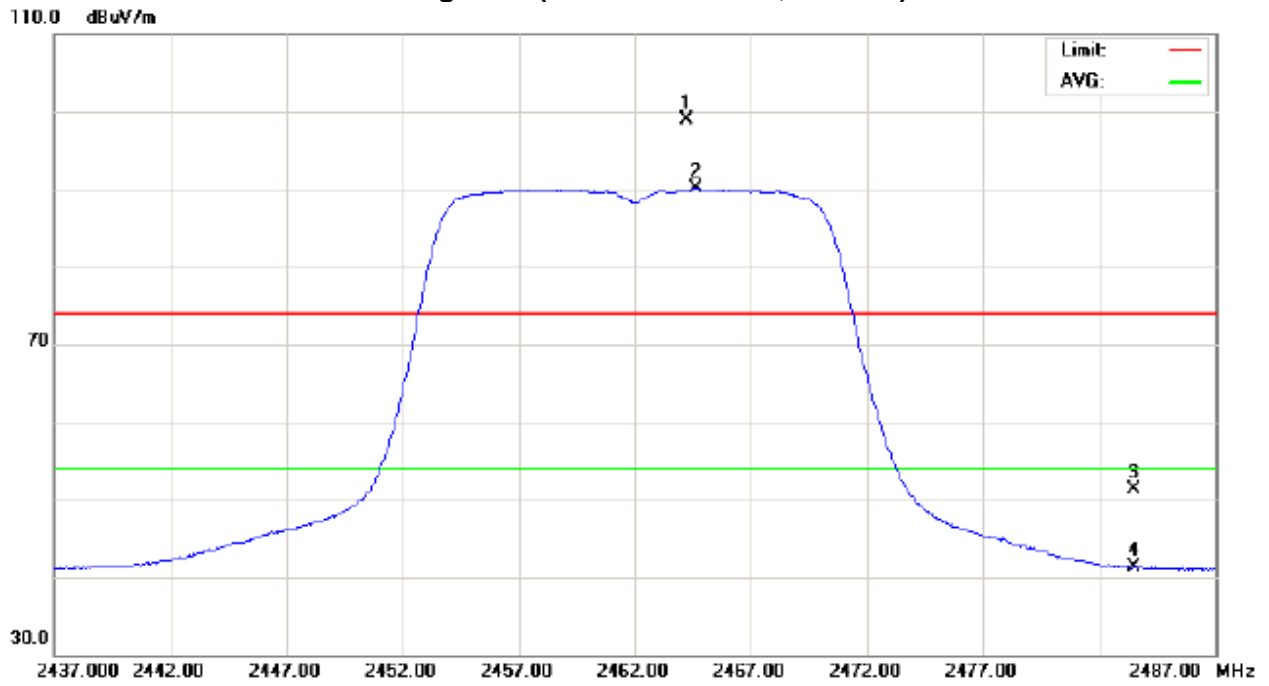
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2464.25	V	66.65	57.79	32.29	98.94	90.08			X/F
2483.50	V	18.95	8.93	32.29	51.24	41.22	74.00	54.00	X/E
4923.98	V	60.40	50.09	2.64	63.04	52.73	74.00	54.00	X/H

**Remark :**

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



Orthogonal Axis : X  
802.11g/CH11(Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11		

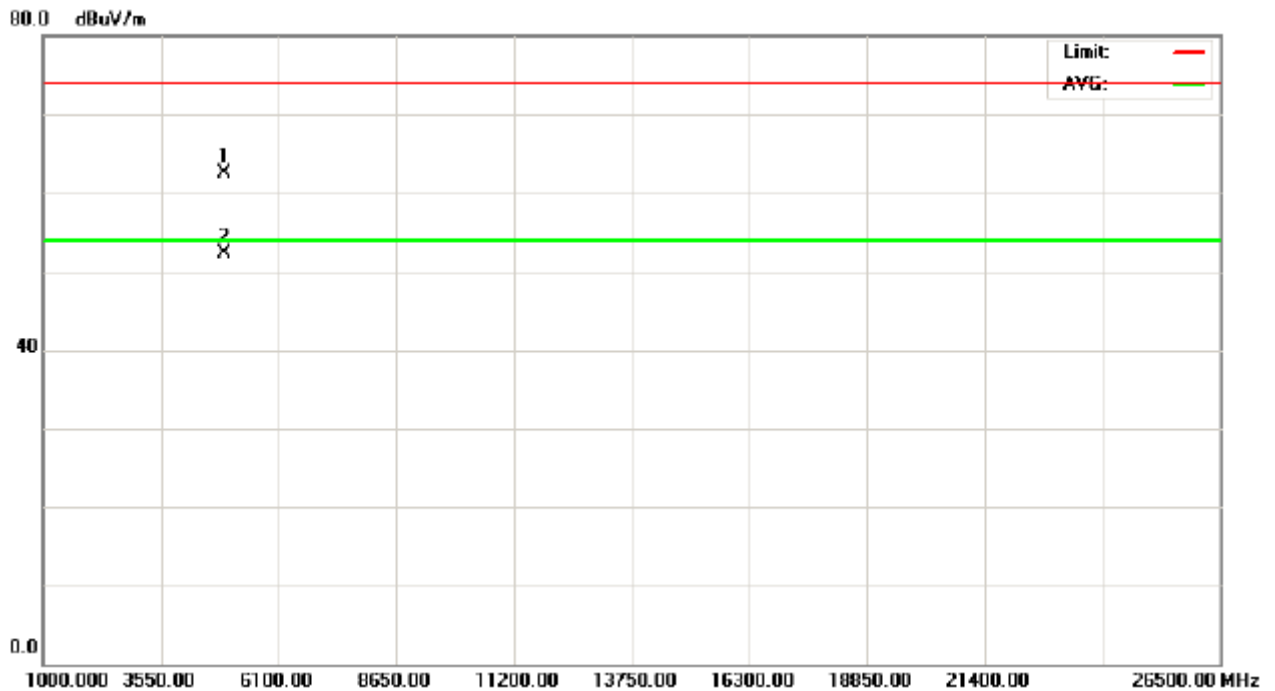
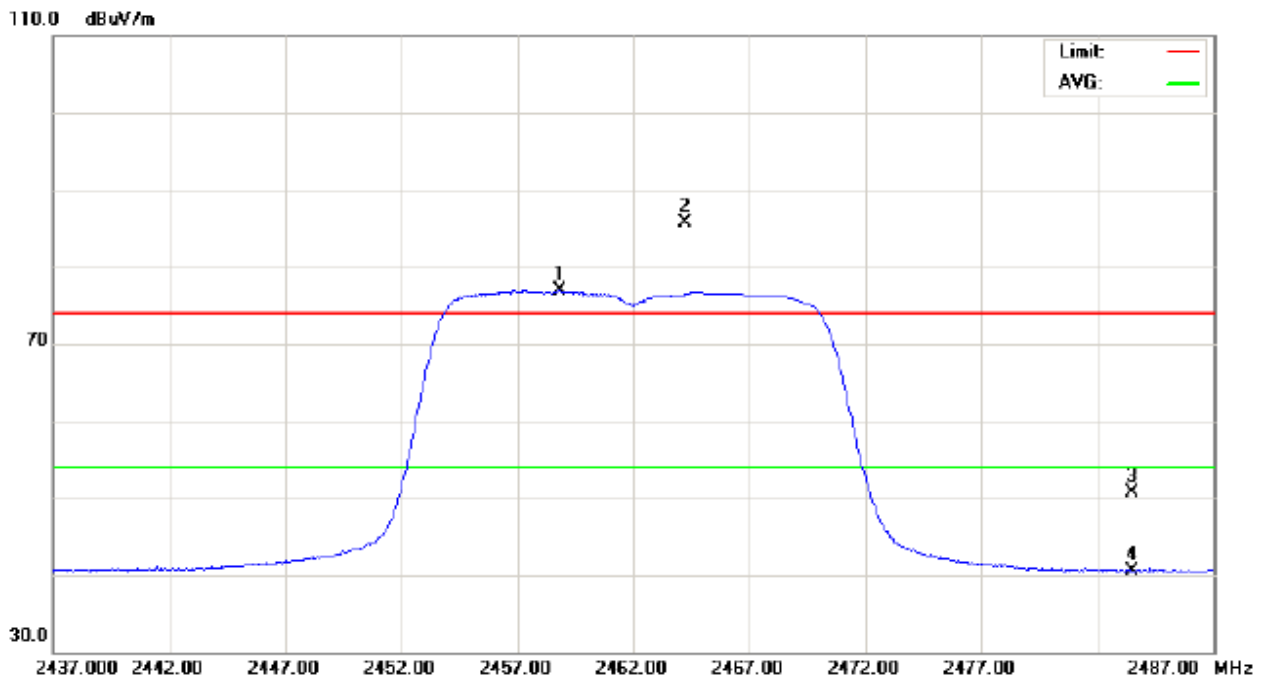
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2464.25	H	53.33	44.60	32.29	85.62	76.89			X/F
2483.50	H	18.39	8.30	32.29	50.68	40.59	74.00	54.00	X/E
4924.35	H	59.77	49.62	2.64	62.41	52.26	74.00	54.00	X/H

Remark :

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



Orthogonal Axis : X  
802.11g/CH11(Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01(Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	9.04	11.60	32.30	41.34	43.90	74.00	54.00	X/E
2408.95	V	72.00	61.95	32.30	104.30	94.25			X/F
4824.30	V	56.07	43.68	2.48	58.55	46.16	74.00	54.00	X/H

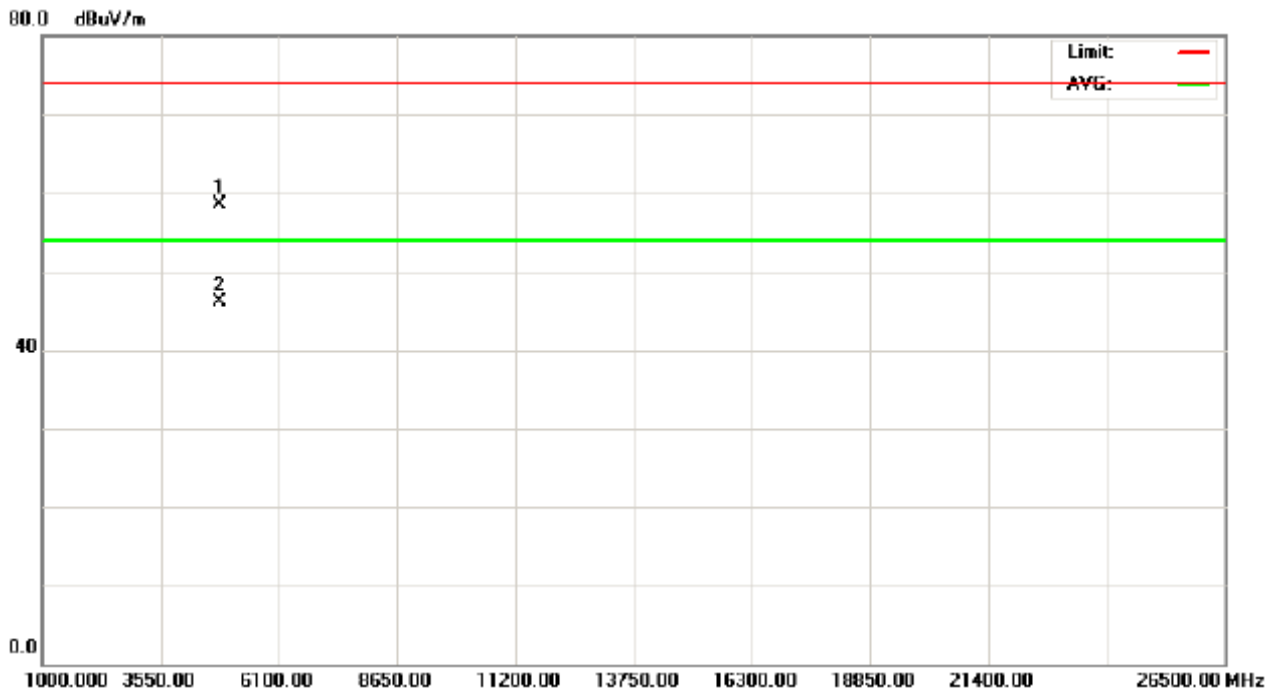
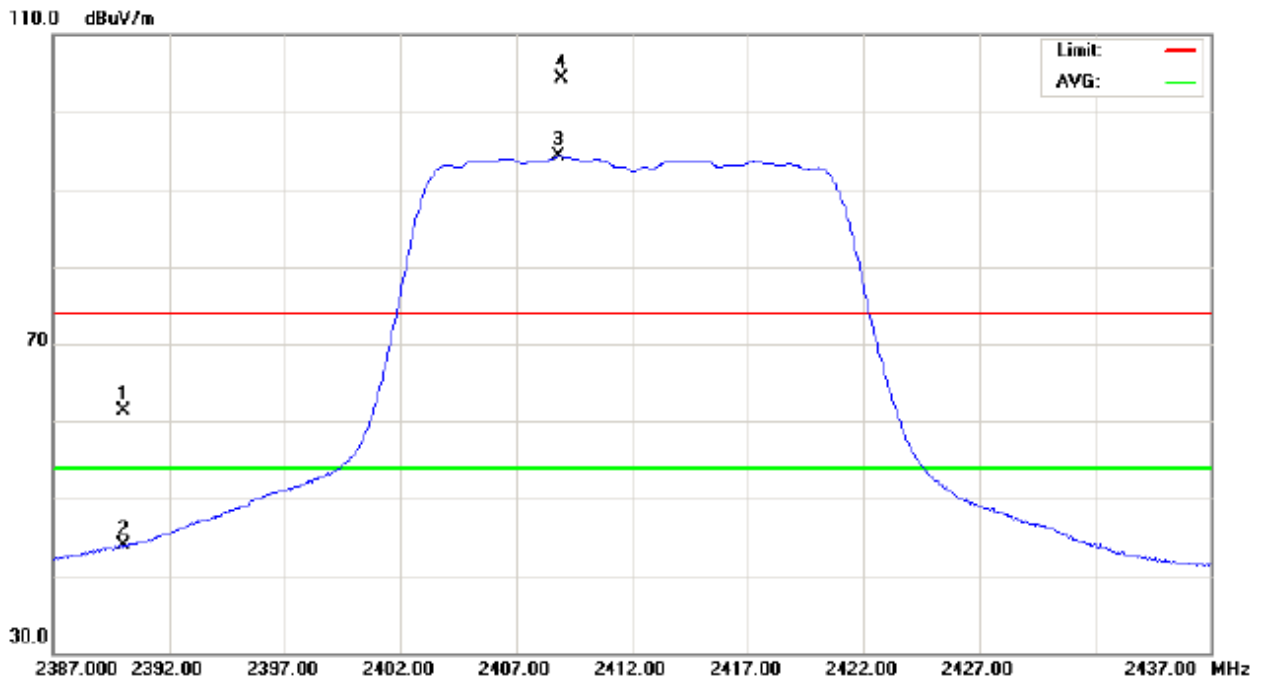
**Remark :**

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





Orthogonal Axis : X  
802.11n/20M/CH01(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01(Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	19.17	8.53	32.30	51.47	40.83	74.00	54.00	X/E
2408.90	H	59.11	49.18	32.30	91.41	81.48			X/F
4824.30	H	59.54	46.95	2.48	62.02	49.43	74.00	54.00	X/H

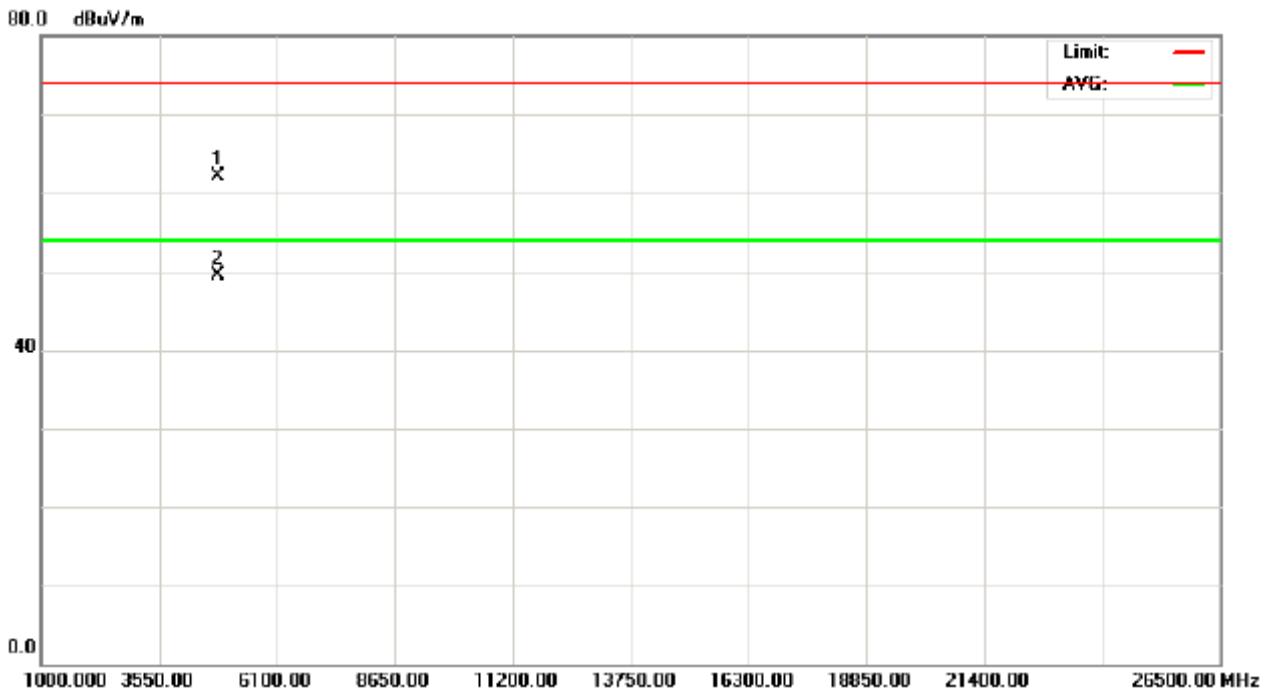
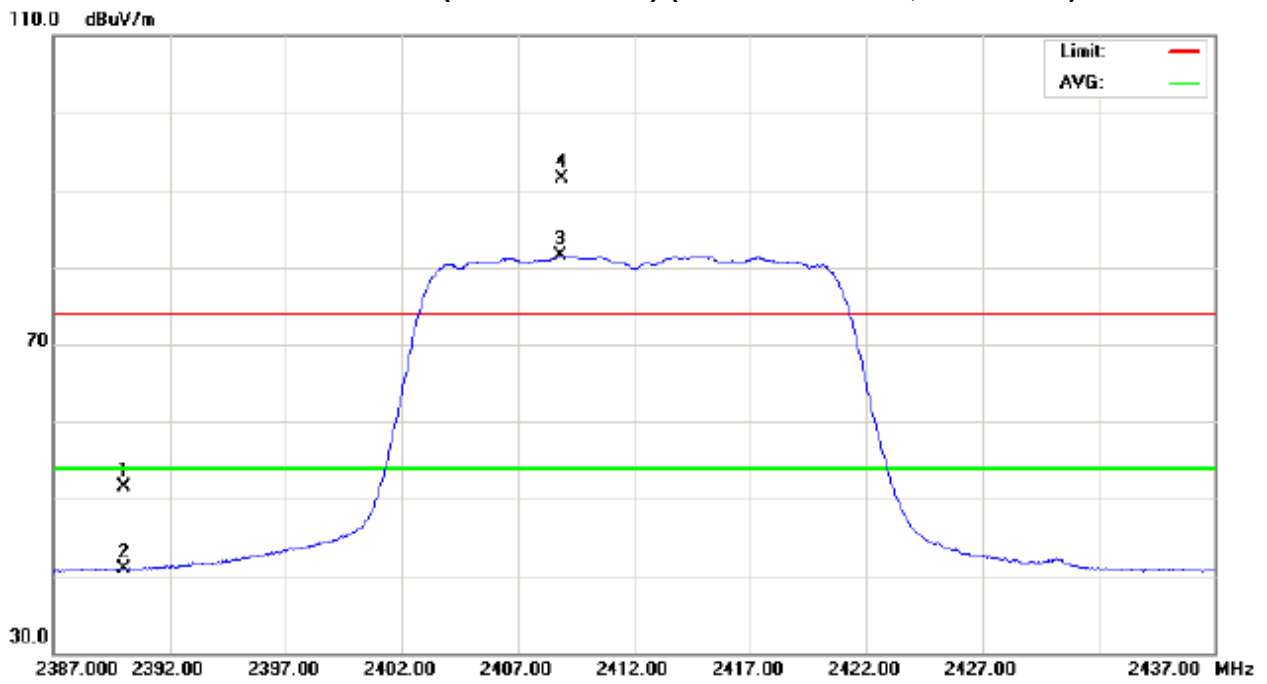
**Remark :**

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



Orthogonal Axis : X

802.11n/20M/CH01(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2433.90	V	70.36	60.52	32.30	102.66	92.82			X/F
4873.30	V	58.57	44.27	2.56	61.13	46.83	74.00	54.00	X/H

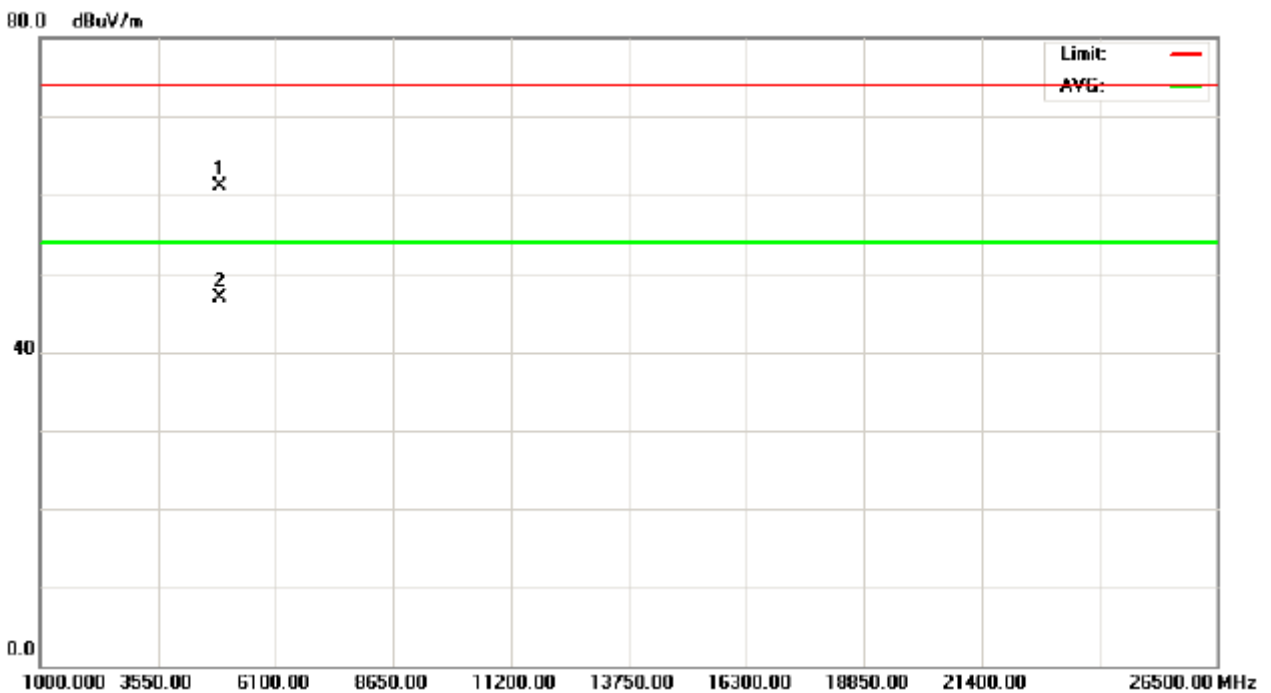
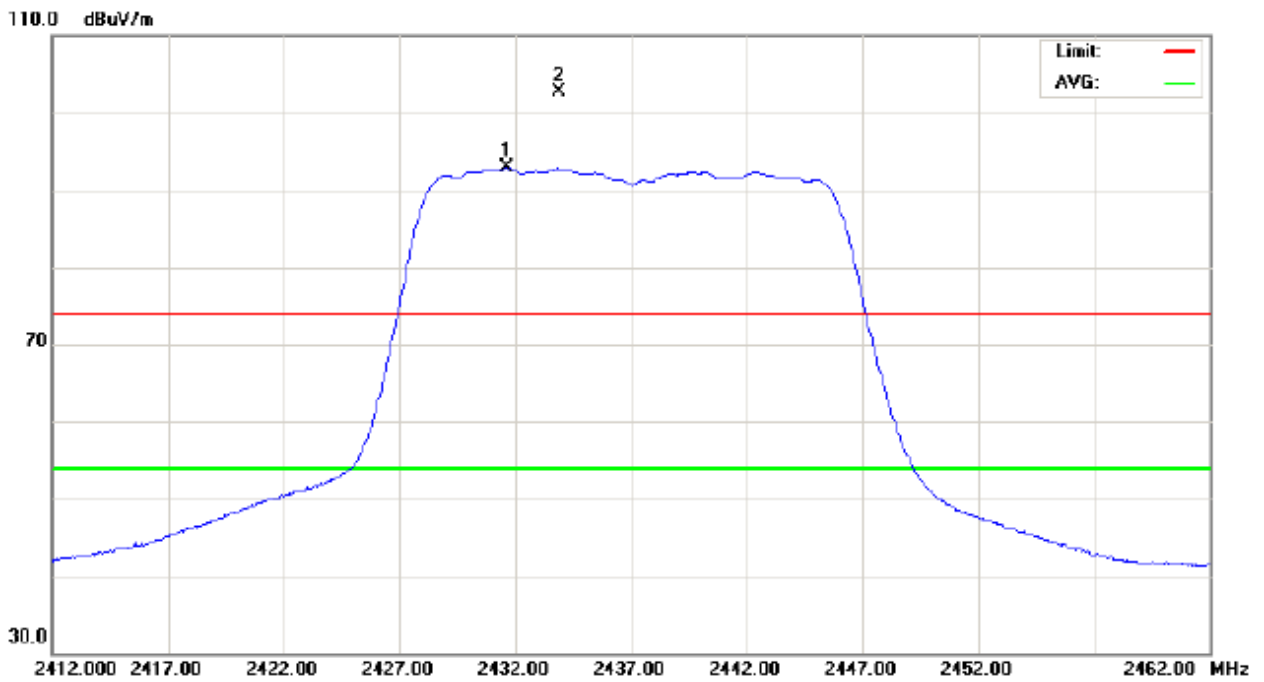
**Remark :**

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



Orthogonal Axis : X

802.11n/20M/CH06(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06(Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2442.35	H	52.35	43.84	32.30	84.65	76.14			X/F
4873.30	H	57.06	45.14	2.56	59.62	47.70	74.00	54.00	X/H

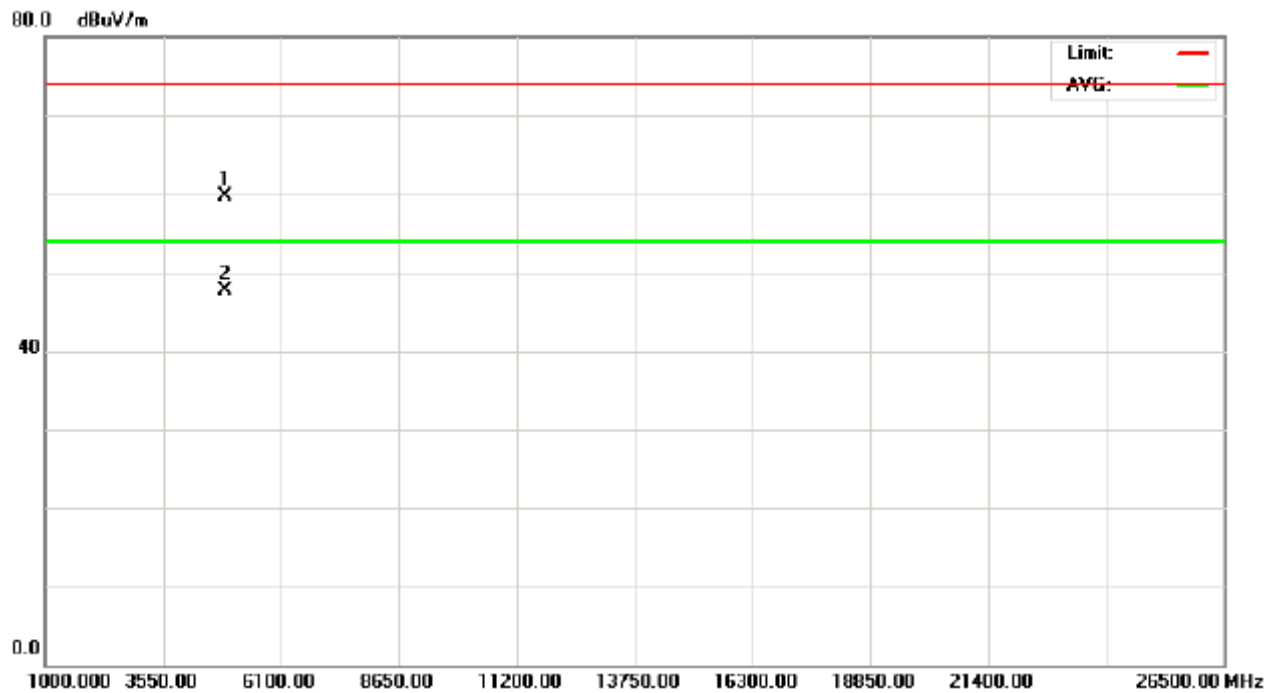
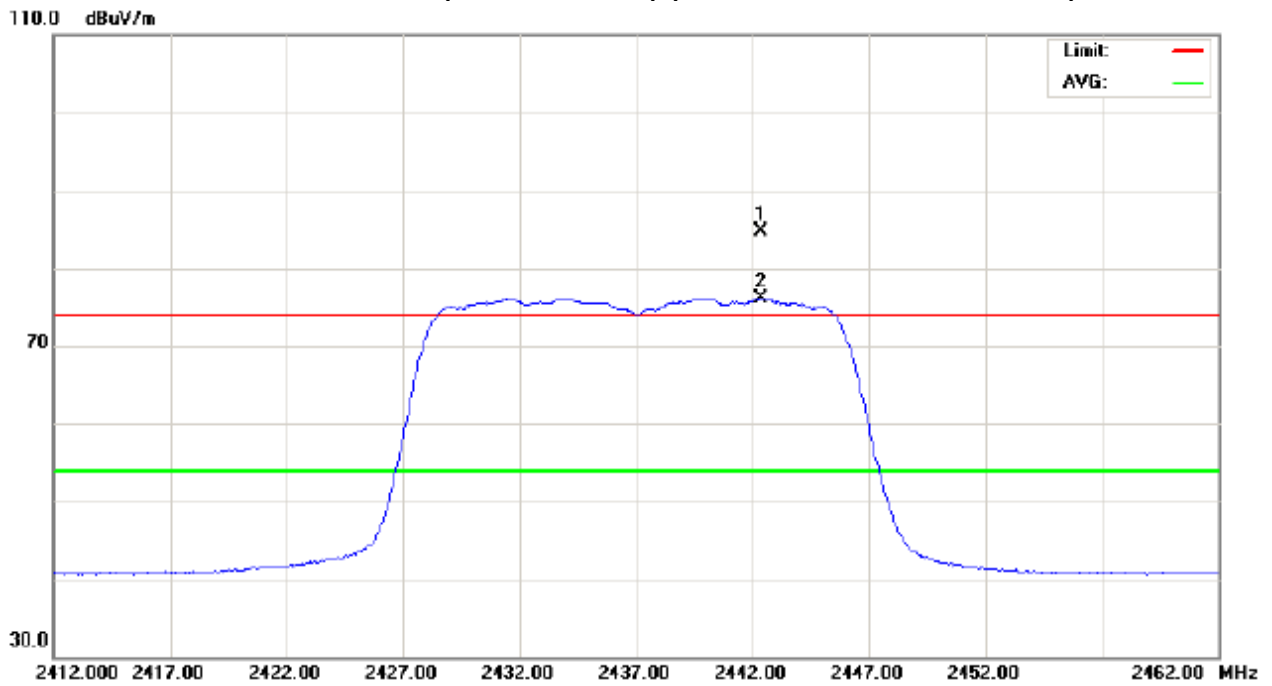
**Remark :**

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



Orthogonal Axis : X

802.11n/20M/CH06(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11(Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2458.90	V	68.30	58.43	32.29	100.59	90.72			X/F
2483.50	V	21.29	9.36	32.29	53.58	41.65	74.00	54.00	X/E
4924.10	V	55.33	43.69	2.64	57.97	46.33	74.00	54.00	X/H

**Remark :**

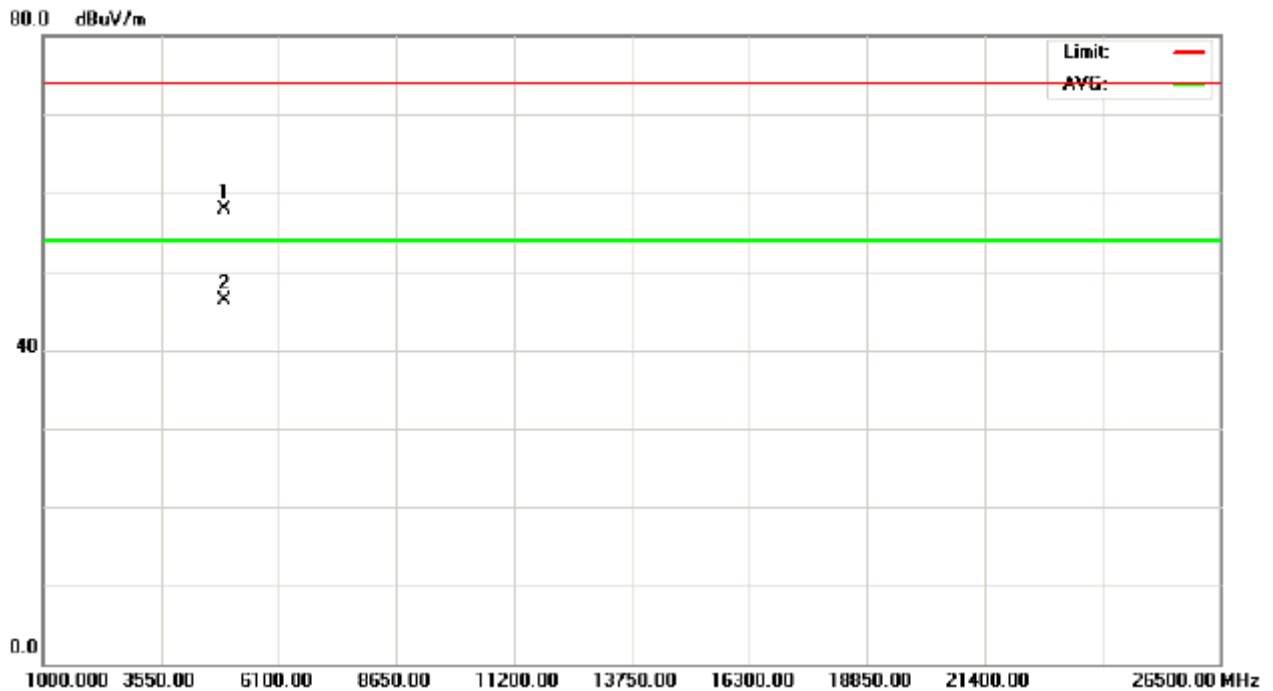
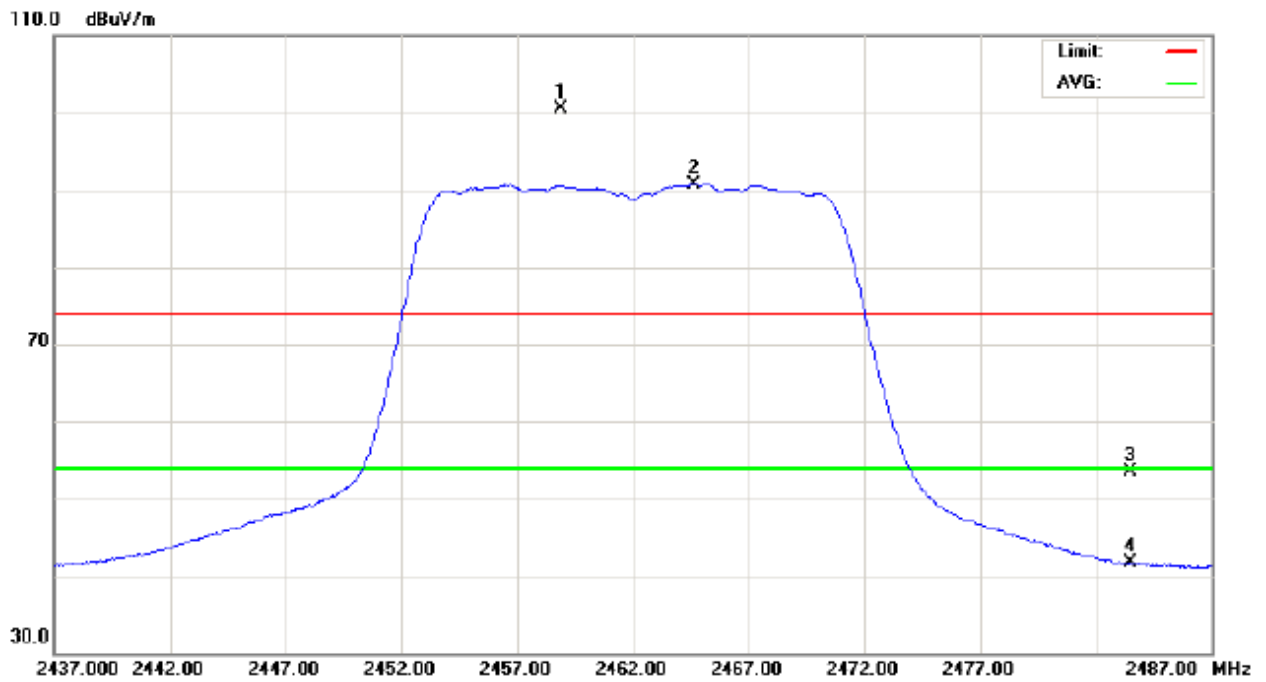
- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode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





Orthogonal Axis : X

802.11n/20M/CH11(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2458.90	H	54.58	44.84	32.29	86.87	77.13			X/F
2483.50	H	19.44	8.43	32.29	51.73	40.72	74.00	54.00	X/E
4924.10	H	56.76	44.08	2.64	59.40	46.72	74.00	54.00	X/H

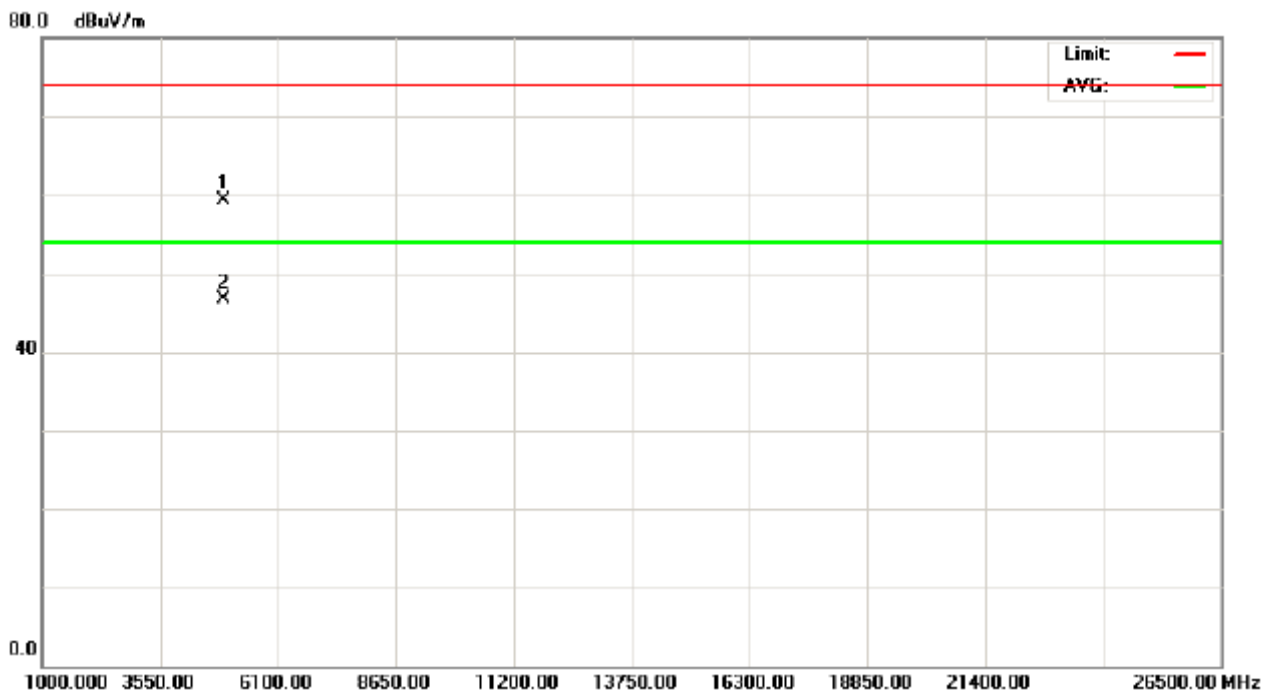
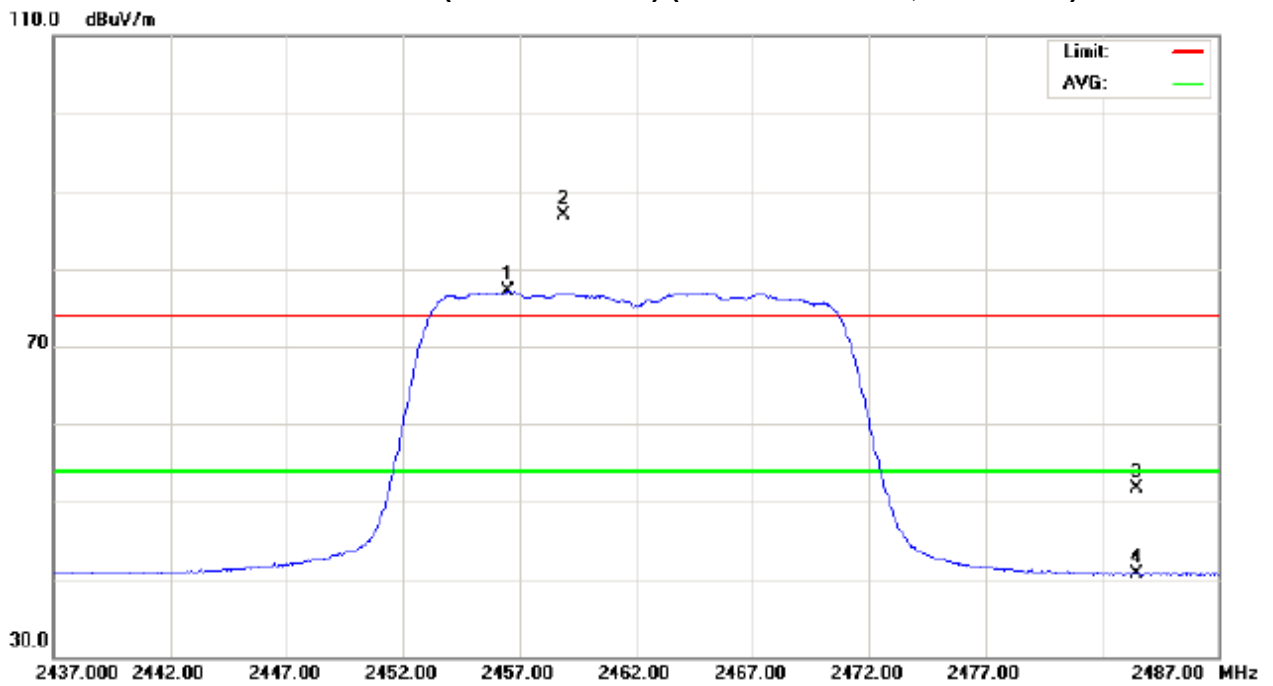
**Remark :**

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



Orthogonal Axis : X

802.11n/20M/CH11(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	29.51	15.81	32.30	61.81	48.11	74.00	54.00	X/E
2419.60	V	71.30	61.68	32.30	103.60	93.98			X/F
4844.50	V	55.42	45.44	2.53	57.95	47.97	74.00	54.00	X/H

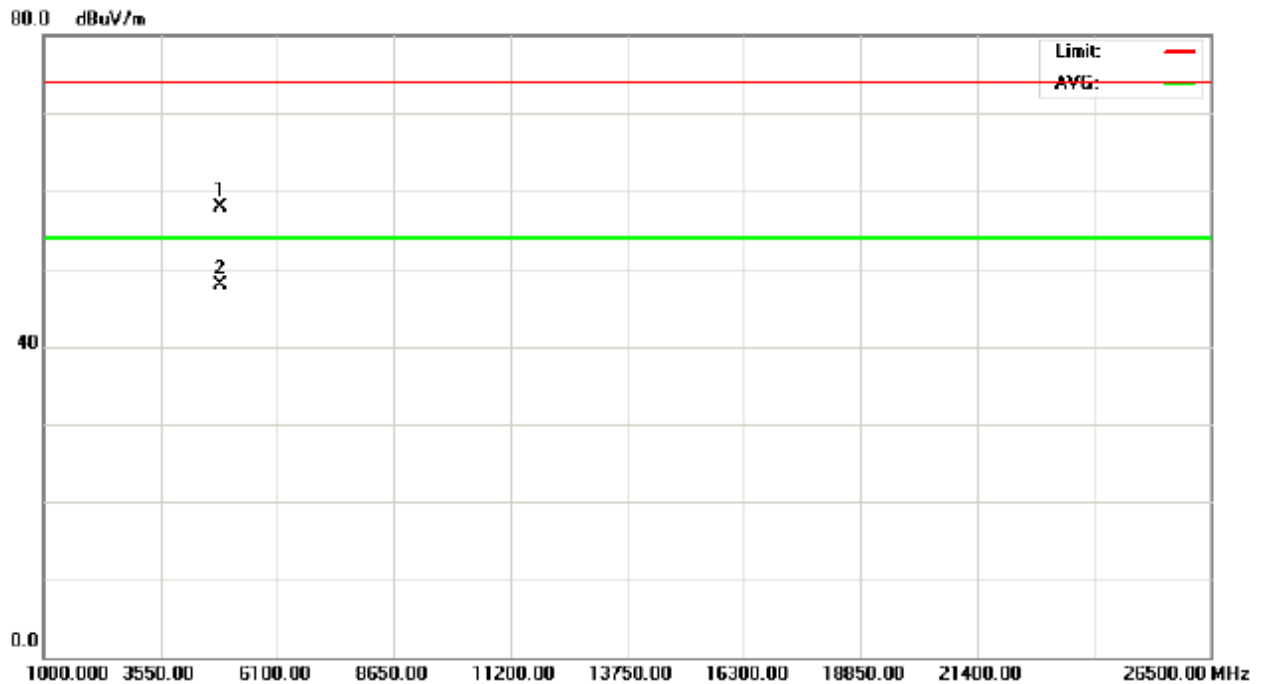
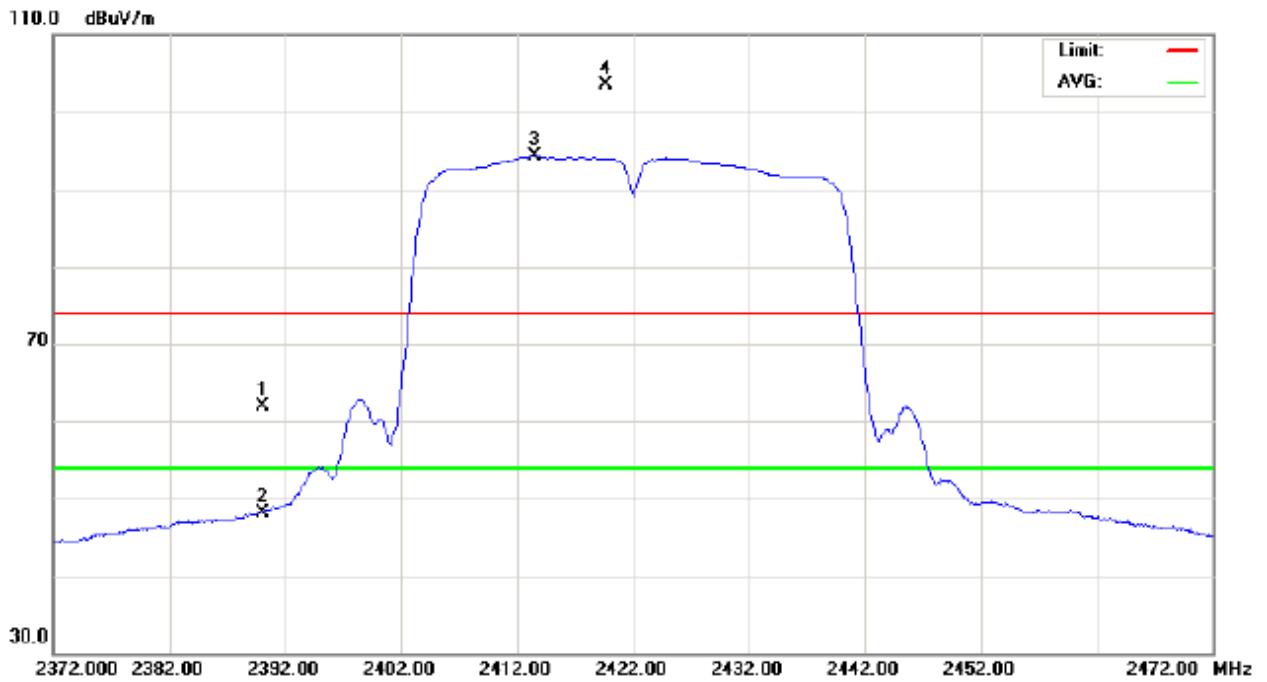
**Remark :**

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



Orthogonal Axis : X

802.11n/40M/CH03(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	23.18	12.02	32.30	55.48	44.32	74.00	54.00	X/E
2406.90	H	59.81	50.66	32.30	92.11	82.96			X/F
4844.50	H	58.23	47.77	2.53	60.76	50.30	74.00	54.00	X/H

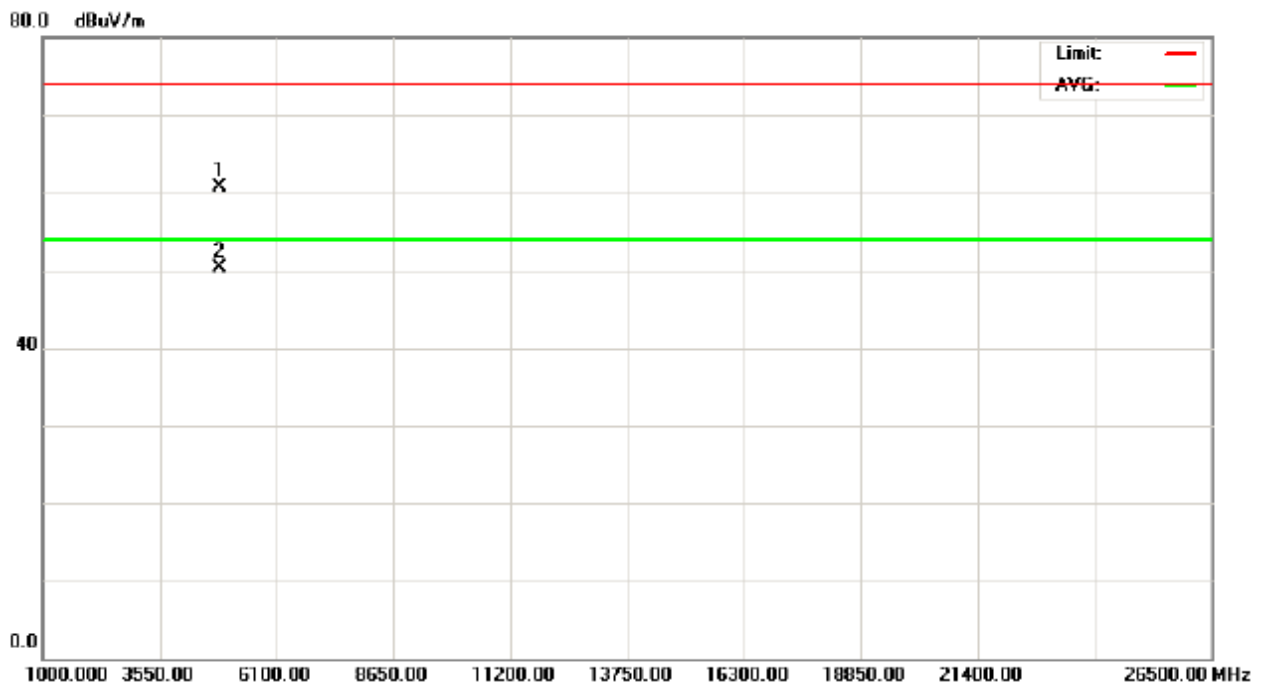
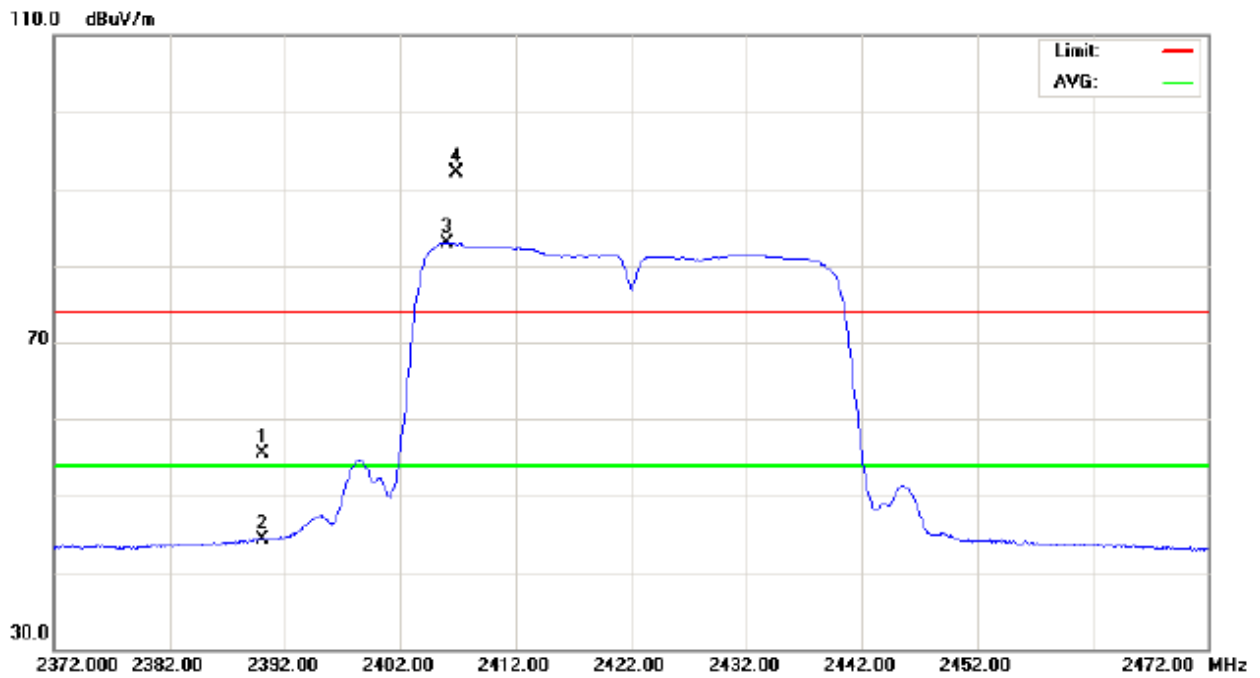
**Remark :**

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



Orthogonal Axis : X

802.11n/40M/CH03(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2433.50	V	68.53	59.46	32.30	100.83	91.76			X/F
4874.00	V	55.60	45.73	2.56	58.16	48.29	74.00	54.00	X/H

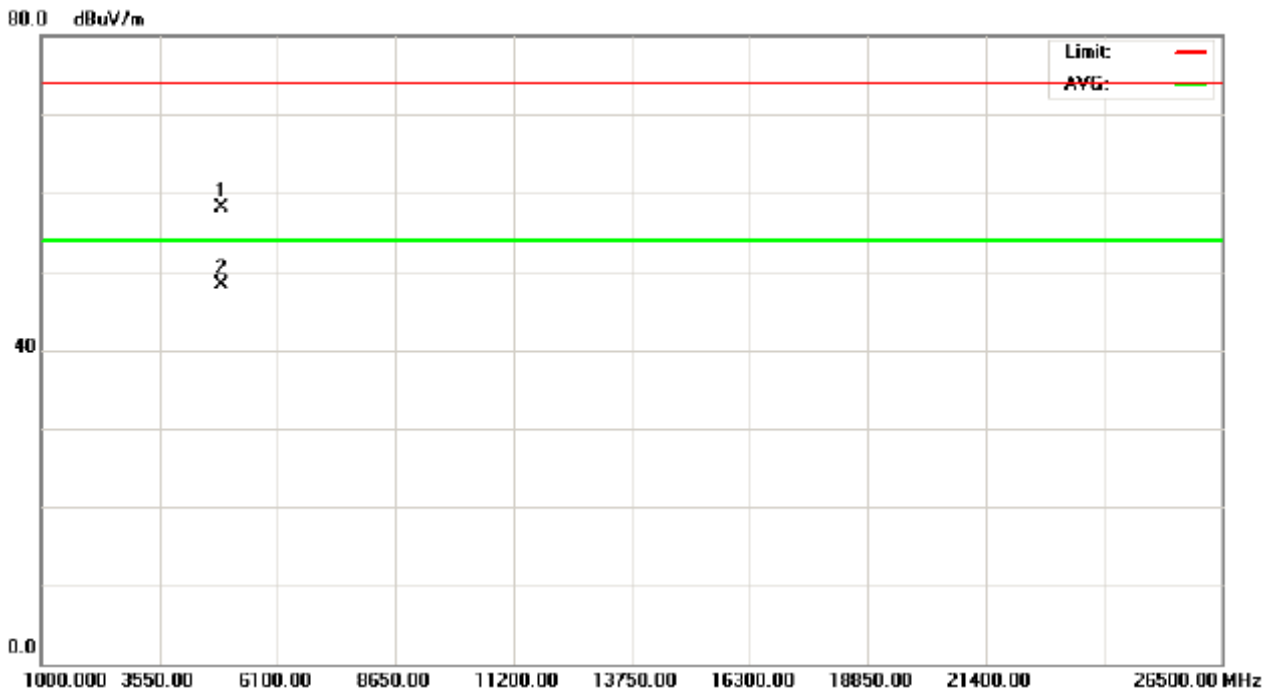
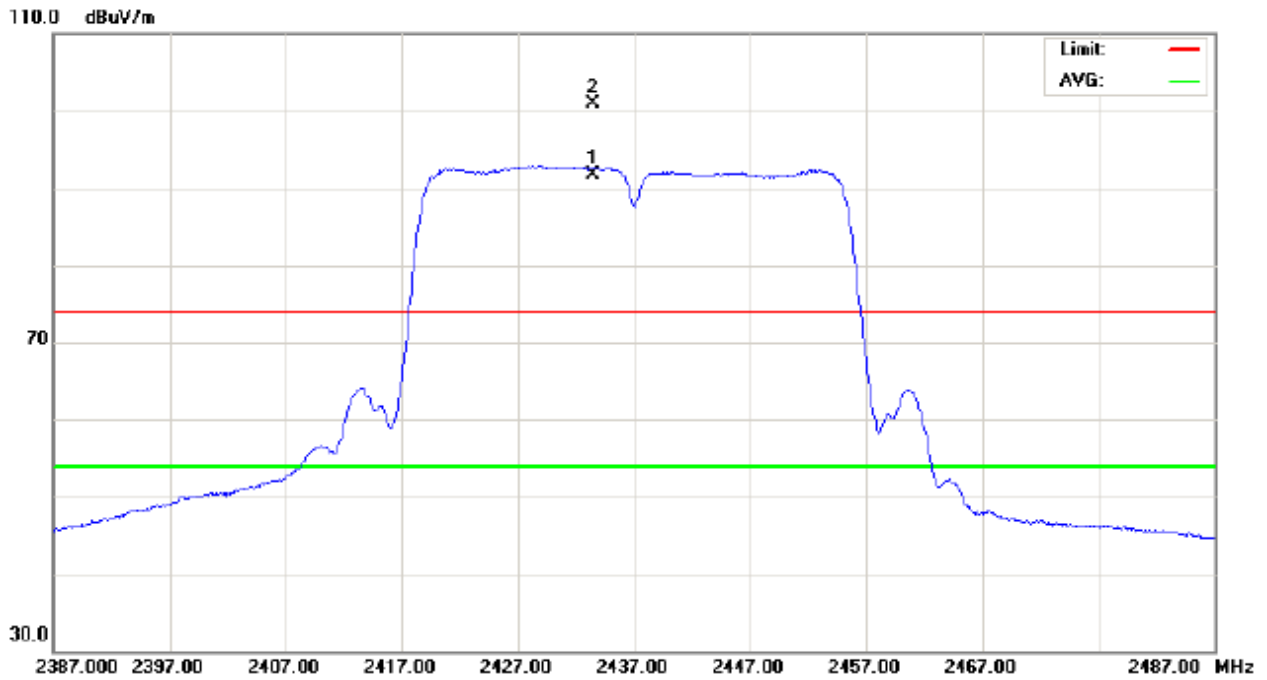
**Remark :**

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





Orthogonal Axis : X  
802.11n/40M/CH06(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2441.40	H	59.16	50.38	32.29	91.45	82.67			X/F
4874.00	H	57.39	46.62	2.56	59.95	49.18	74.00	54.00	X/H

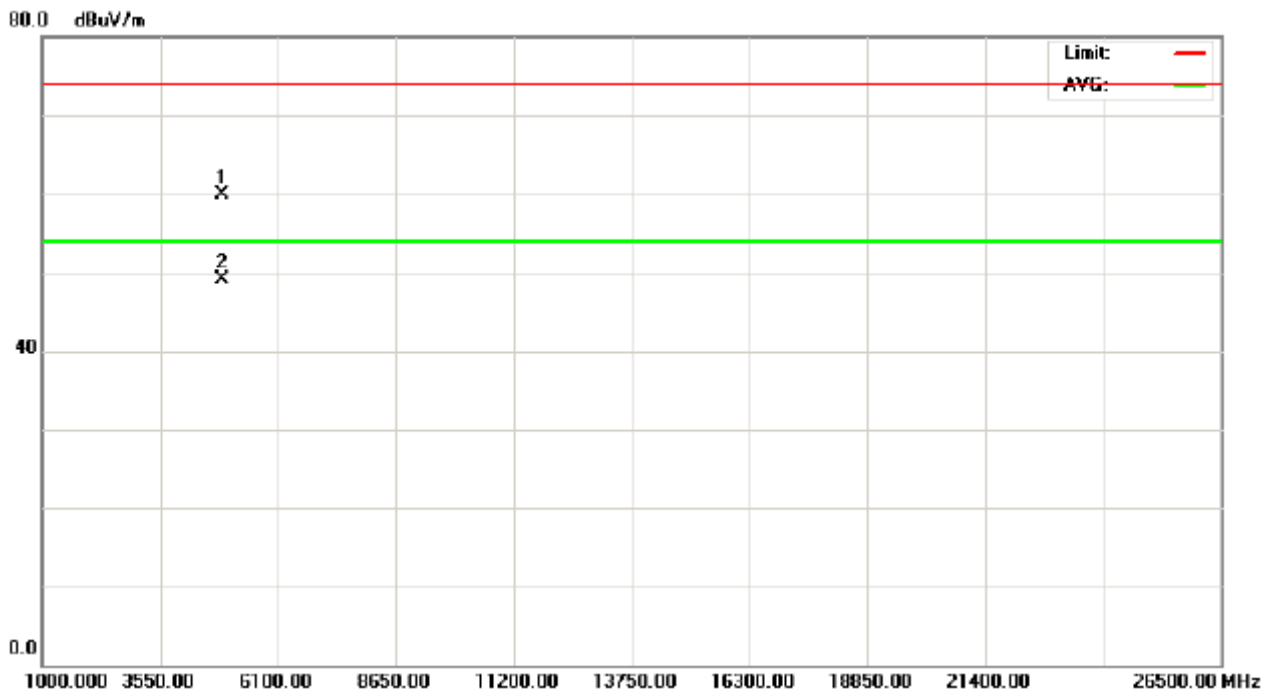
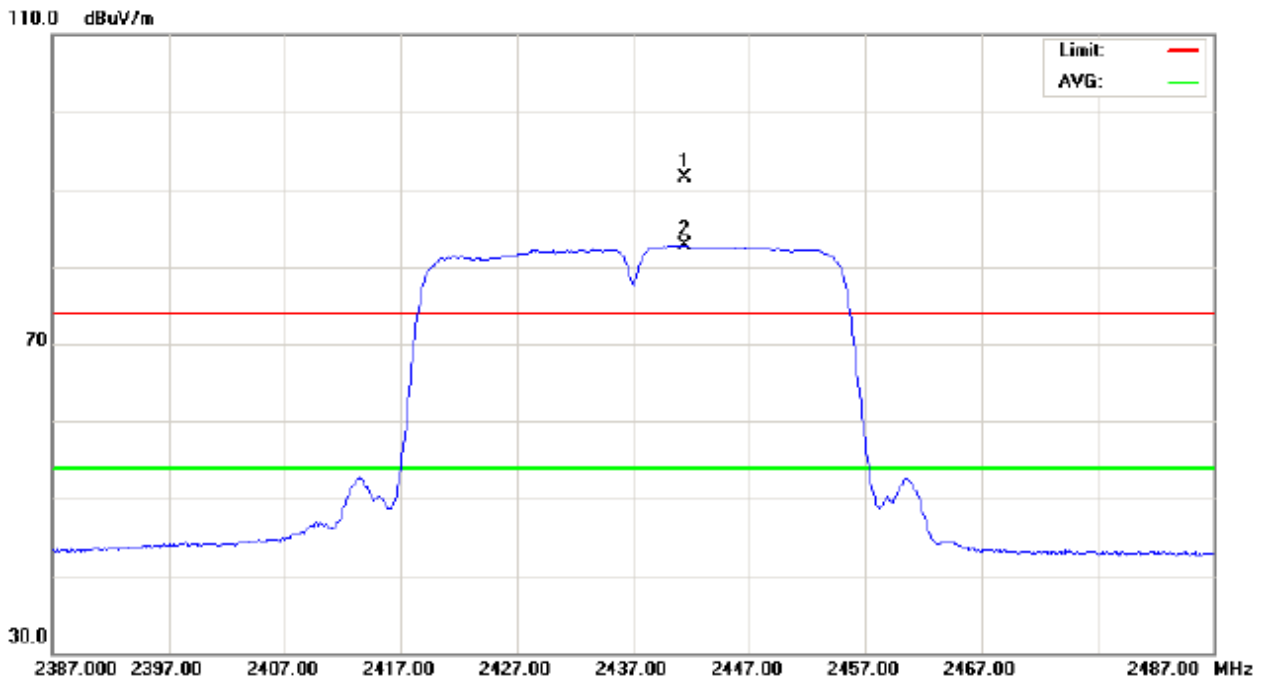
**Remark :**

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



Orthogonal Axis : X

802.11n/40M/CH06(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2462.30	V	70.55	60.77	32.29	102.84	93.06			X/F
2483.50	V	26.22	12.19	32.29	58.51	44.48	74.00	54.00	X/E
4904.50	V	53.68	43.95	2.61	56.29	46.56	74.00	54.00	X/H

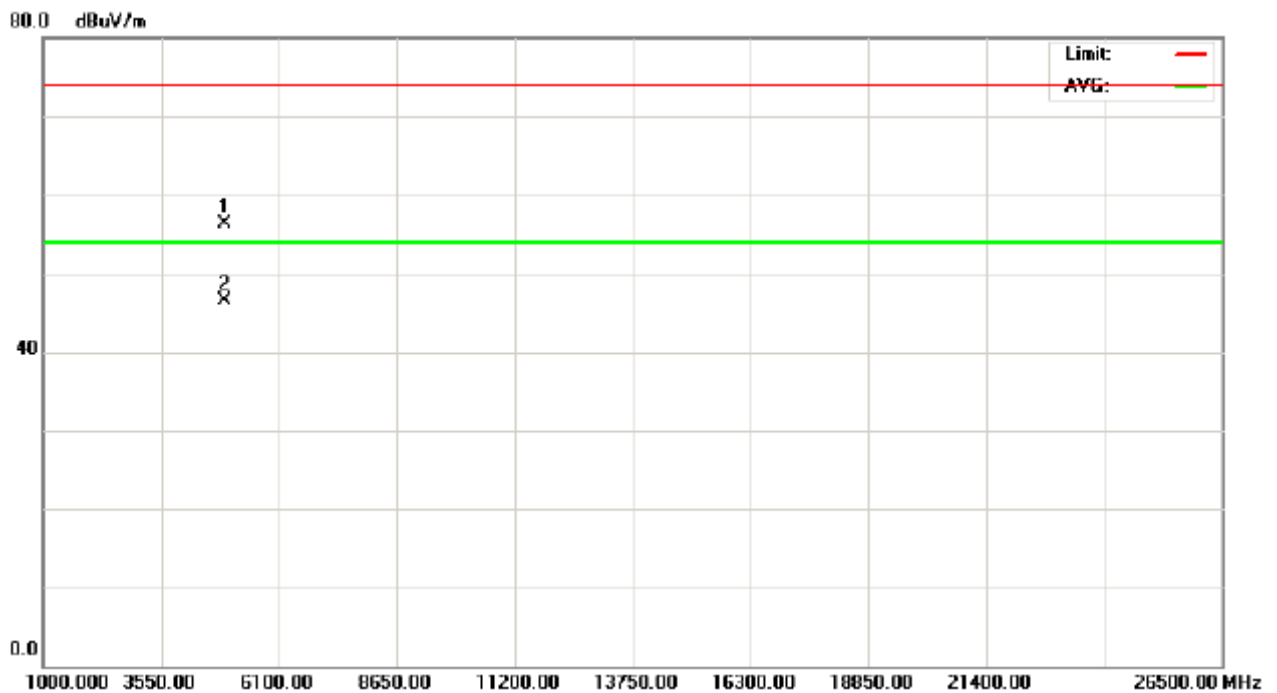
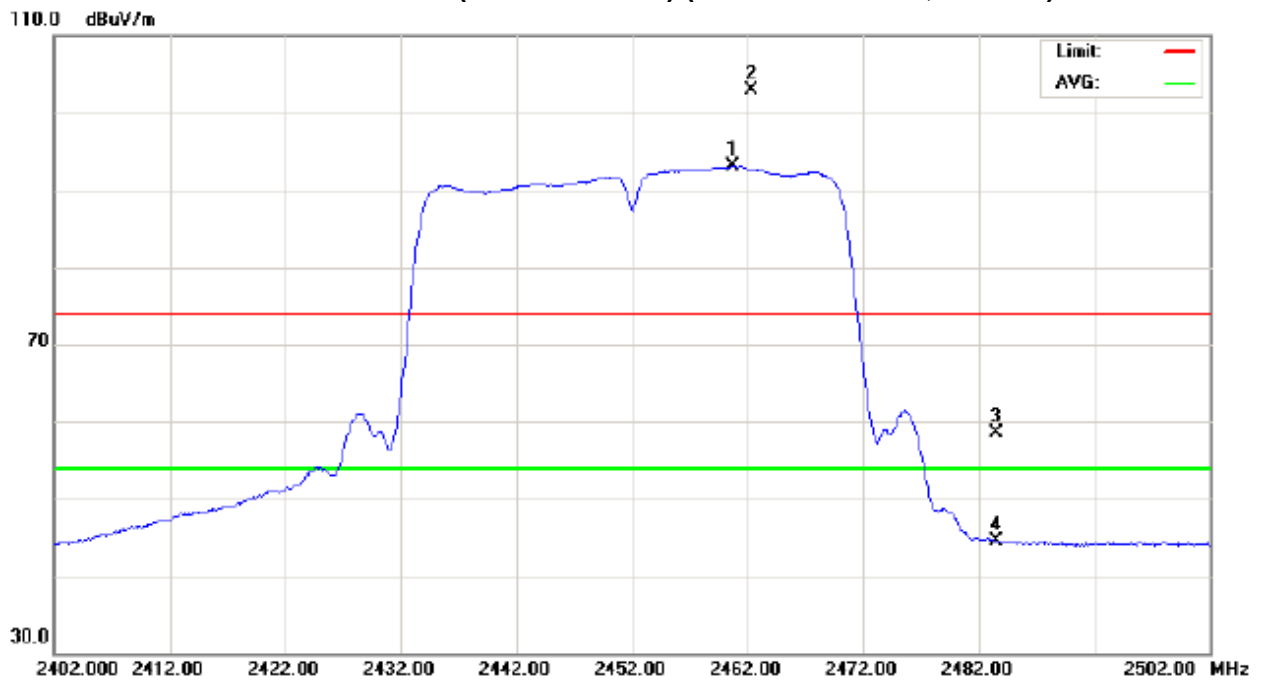
**Remark :**

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



Orthogonal Axis : X

802.11n/40M/CH09(Port 0 + Port 1) (Above 1000 MHz, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09 (Port. 0 + Port. 1)		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2449.80	H	59.94	50.41	32.29	92.23	82.70			X/F
2483.50	H	21.63	10.66	32.29	53.92	42.95	74.00	54.00	X/E
4904.50	H	55.49	45.32	2.61	58.10	47.93	74.00	54.00	X/H

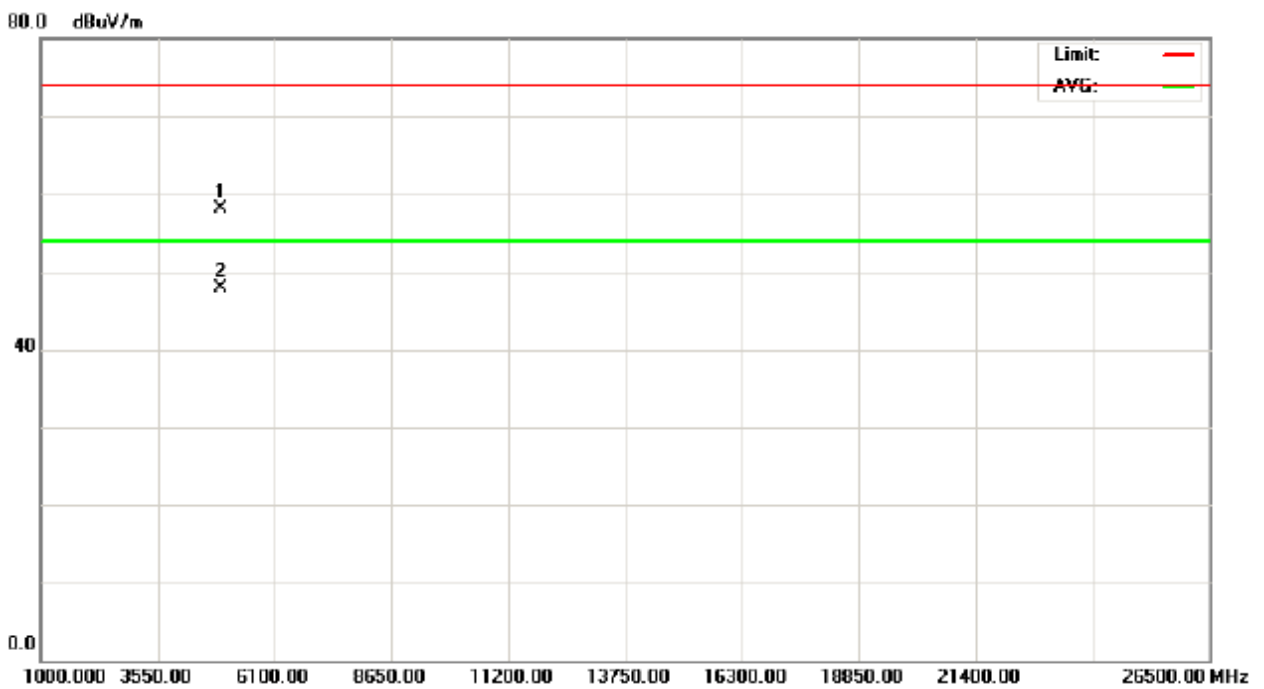
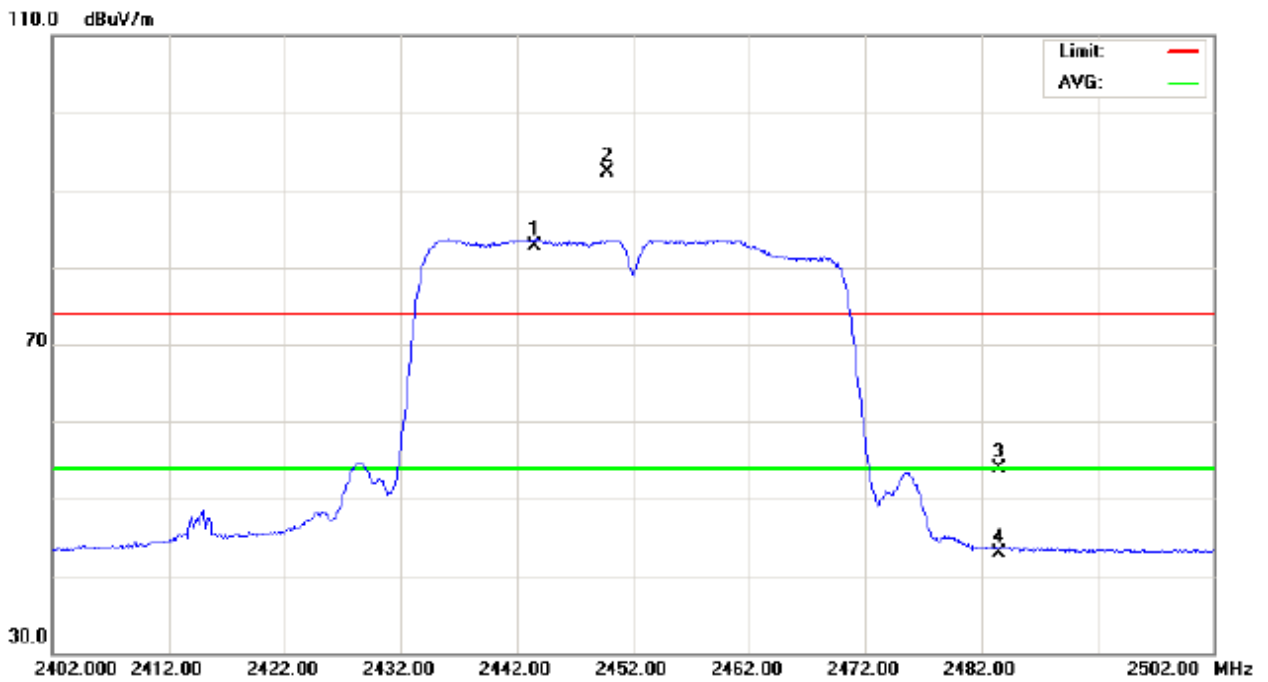
**Remark :**

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



Orthogonal Axis : X

802.11n/40M/CH09(Port 0 + Port 1) (Above 1000 MHz, Horizontal)





**4.2.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b(Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	20.40	10.44	32.30	52.70	42.74	74.00	54.00	X
2483.50	V	20.58	9.63	32.29	52.87	41.92	74.00	54.00	X

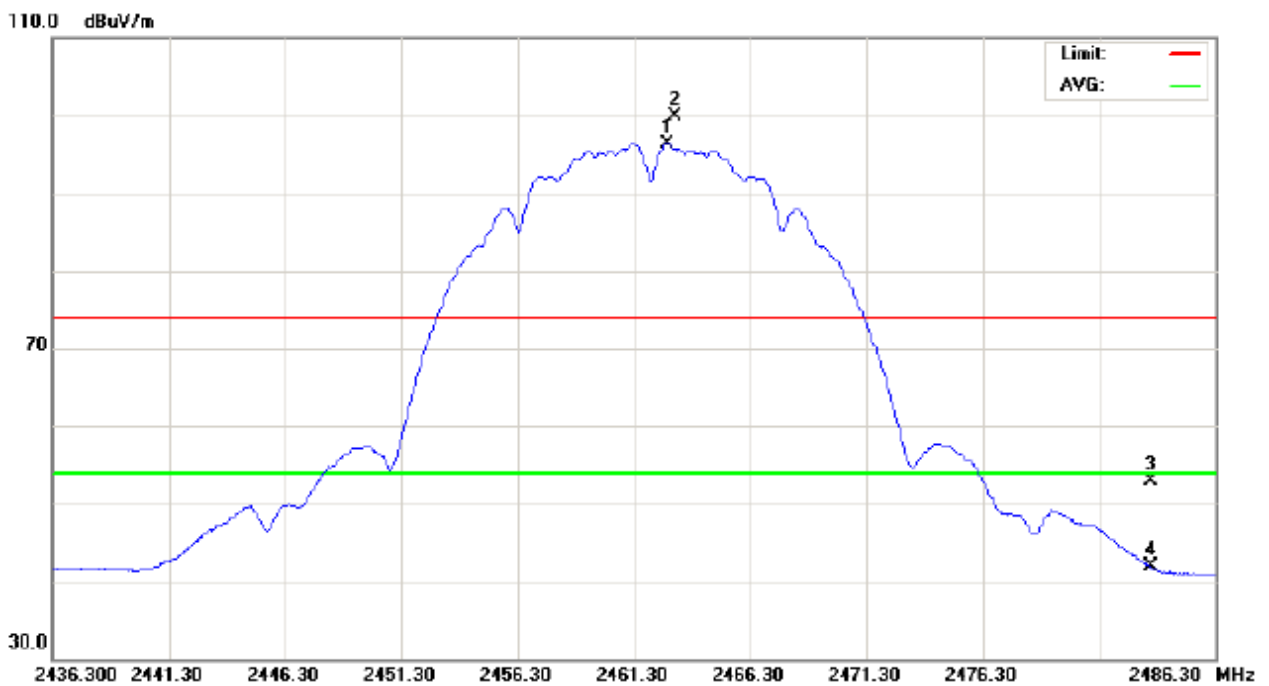
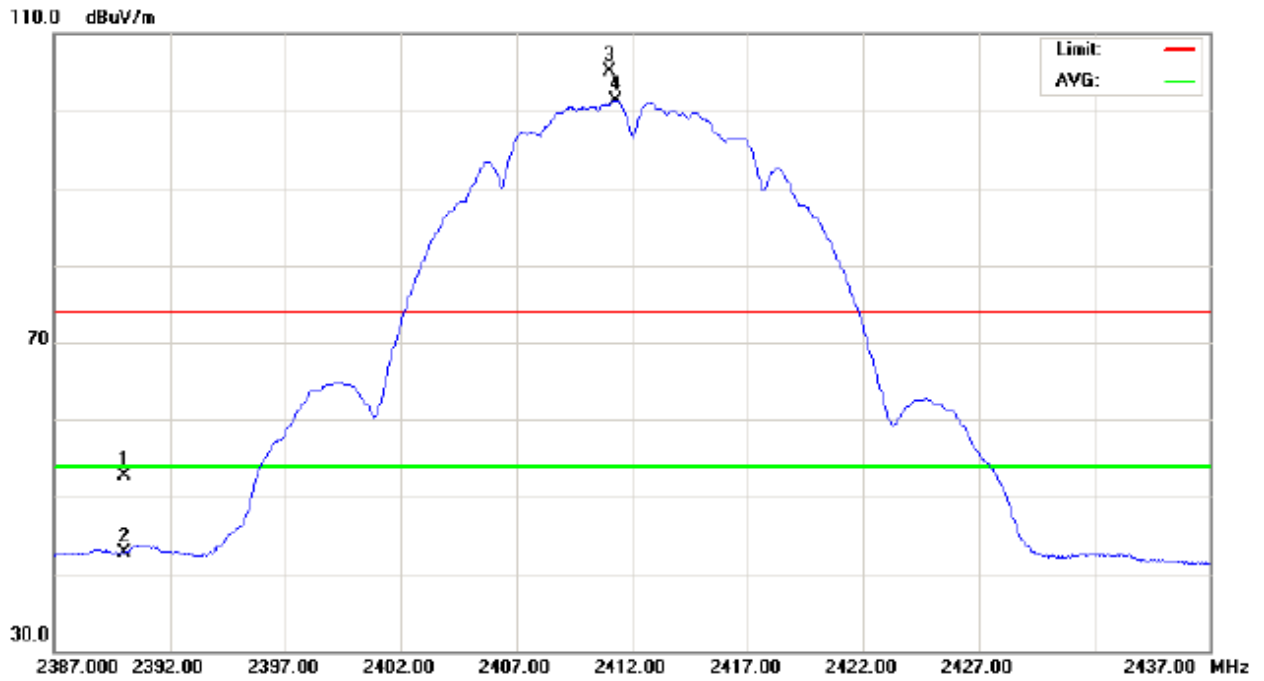
**Remark :**

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





### 802.11b (Restricted Bands Requirements, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 ° C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b(Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

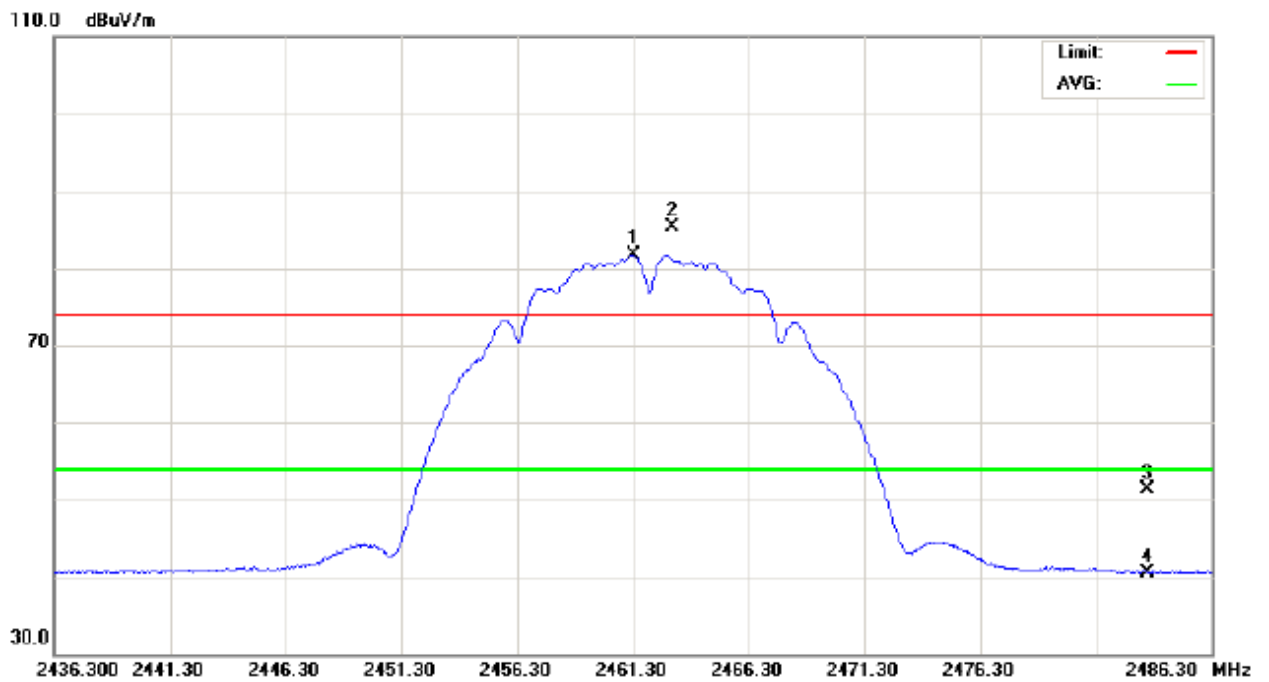
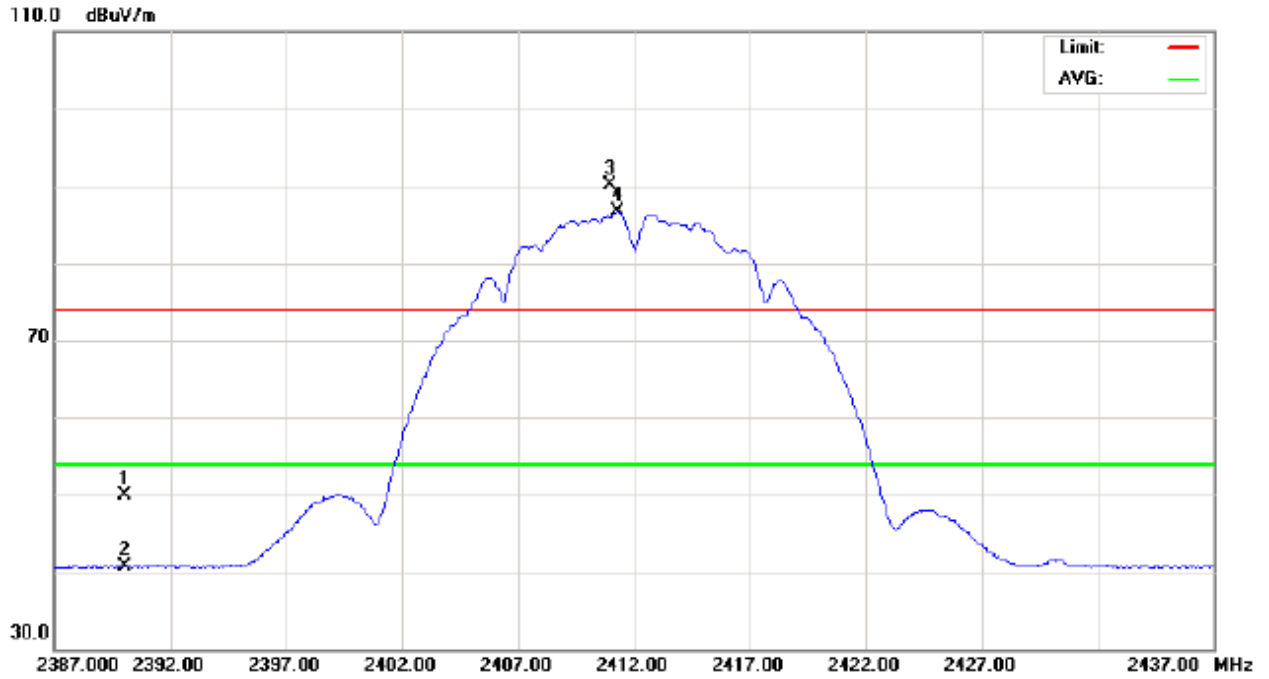
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	17.67	8.39	32.30	49.97	40.69	74.00	54.00	X
2483.55	H	18.95	8.27	32.29	51.24	40.56	74.00	54.00	X

**Remark :**

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



802.11b (Restricted Bands Requirements, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 °C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g(Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

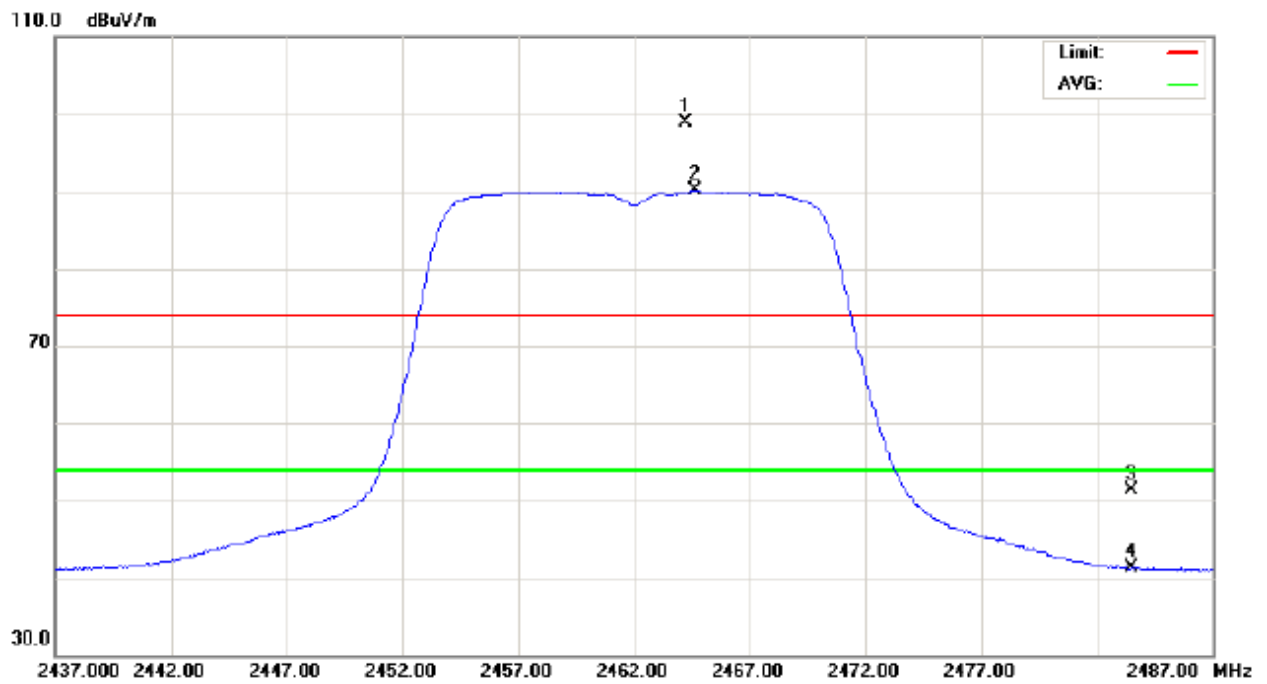
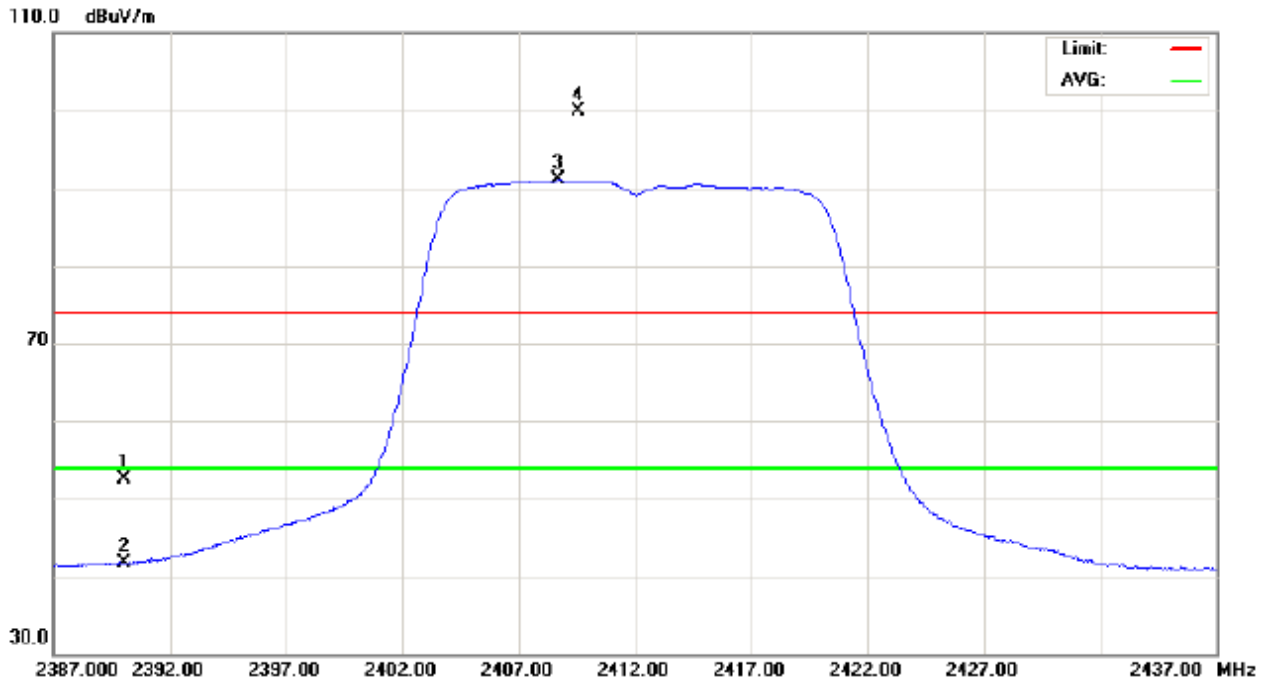
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	20.17	9.45	32.30	52.47	41.75	74.00	54.00	X
2483.50	V	18.95	8.93	32.29	51.24	41.22	74.00	54.00	X

**Remark :**

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



802.11g (Restricted Bands Requirements, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	34 ° C	Relative Humidity :	42 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g(Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

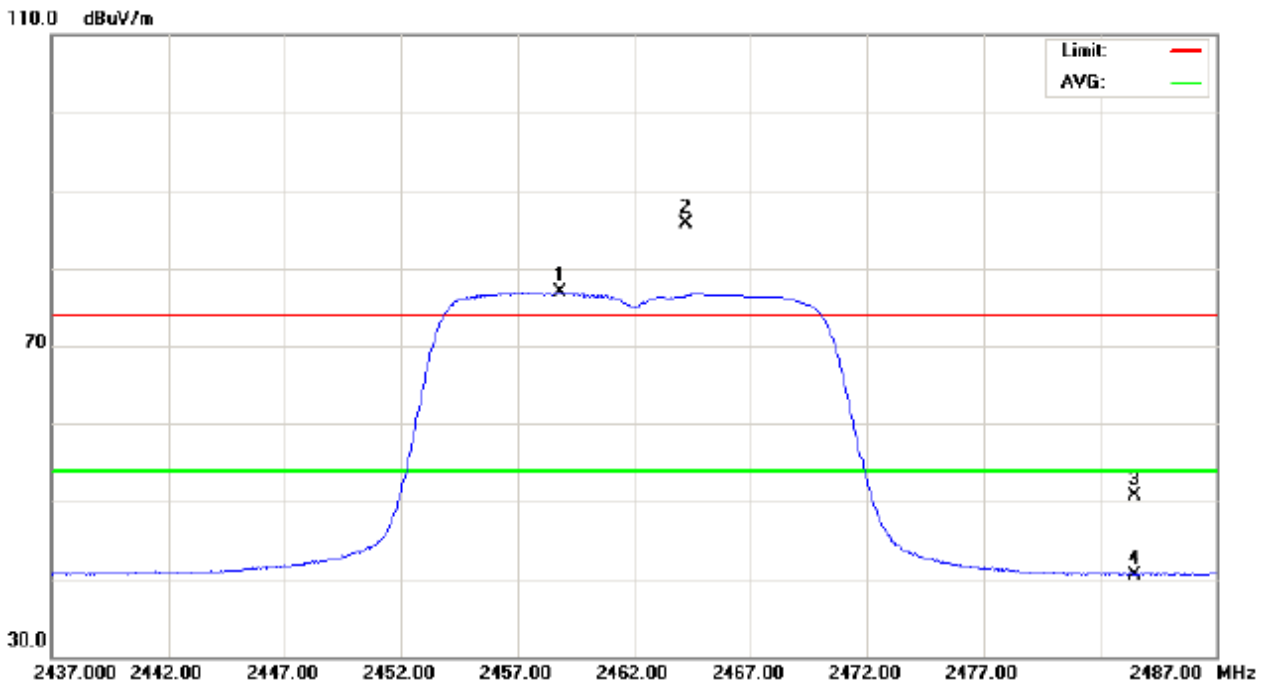
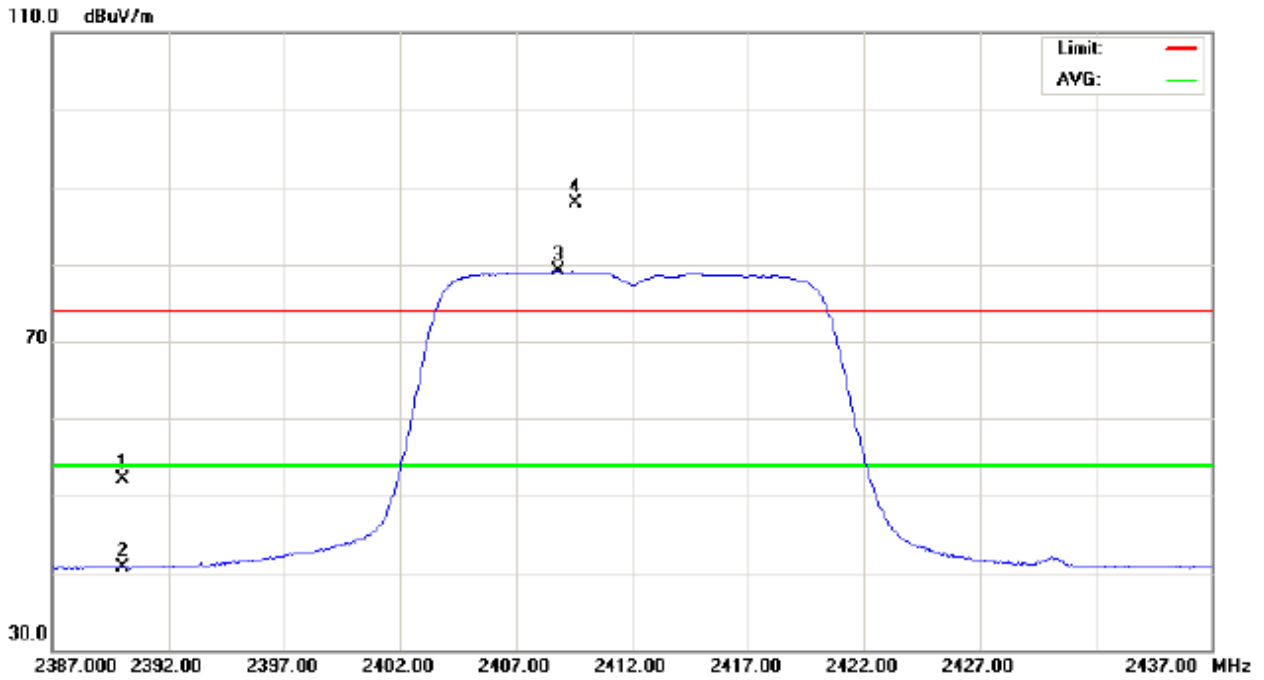
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	19.73	8.40	32.30	52.03	40.70	74.00	54.00	X
2483.50	H	18.39	8.30	32.29	50.68	40.59	74.00	54.00	X

**Remark :**

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



### 802.11g (Restricted Bands Requirements, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M(Port. 0 + Port. 1) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	29.04	11.60	32.30	61.34	43.90	74.00	54.00	X
2483.50	V	21.29	9.36	32.29	53.58	41.65	74.00	54.00	X

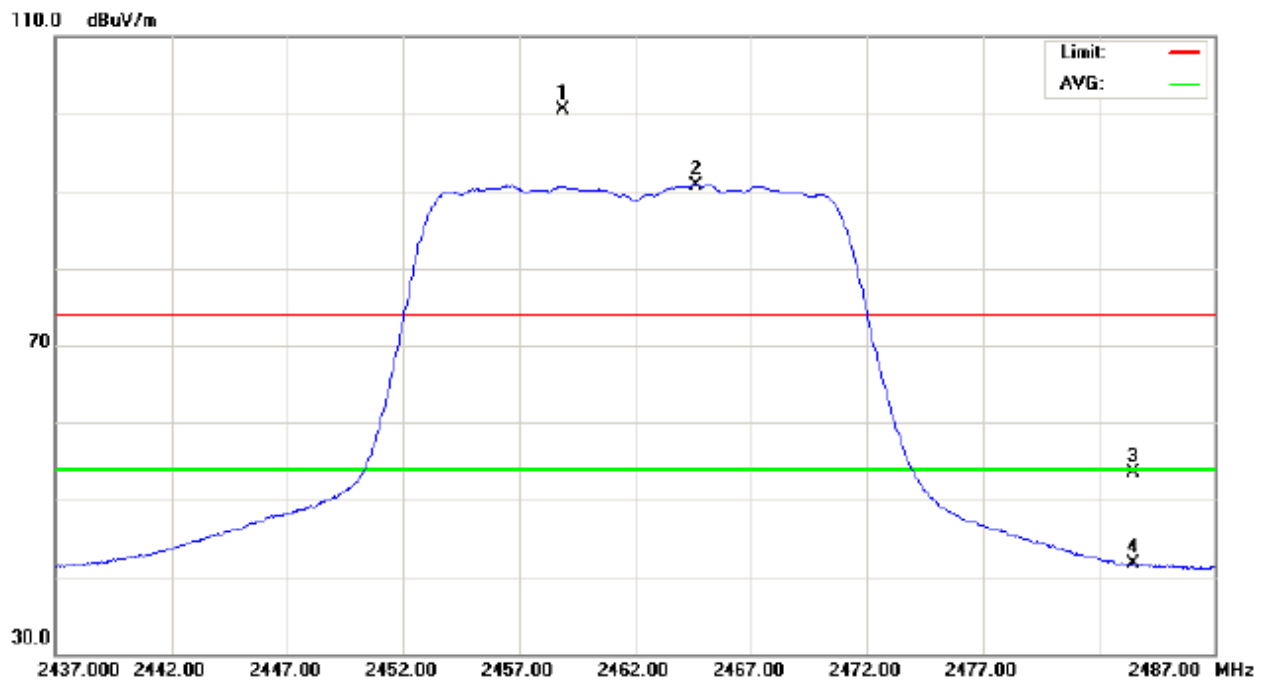
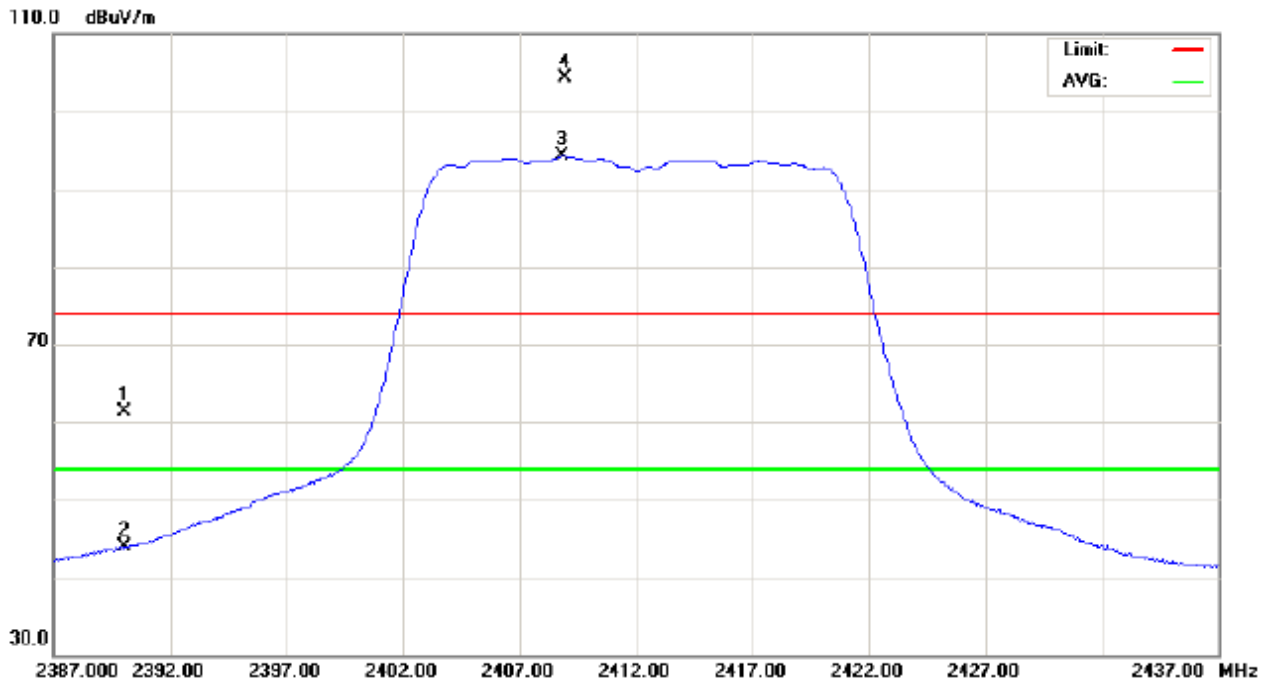
**Remark :**

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





802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M(Port. 0 + Port. 1) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

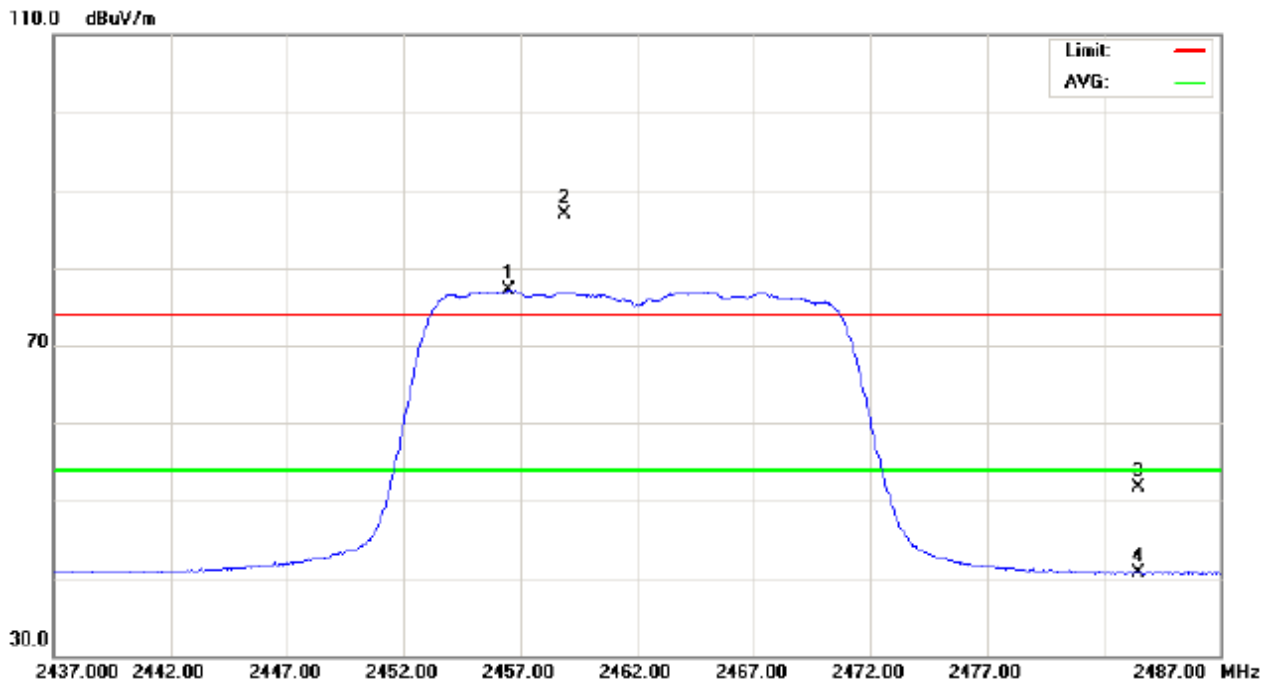
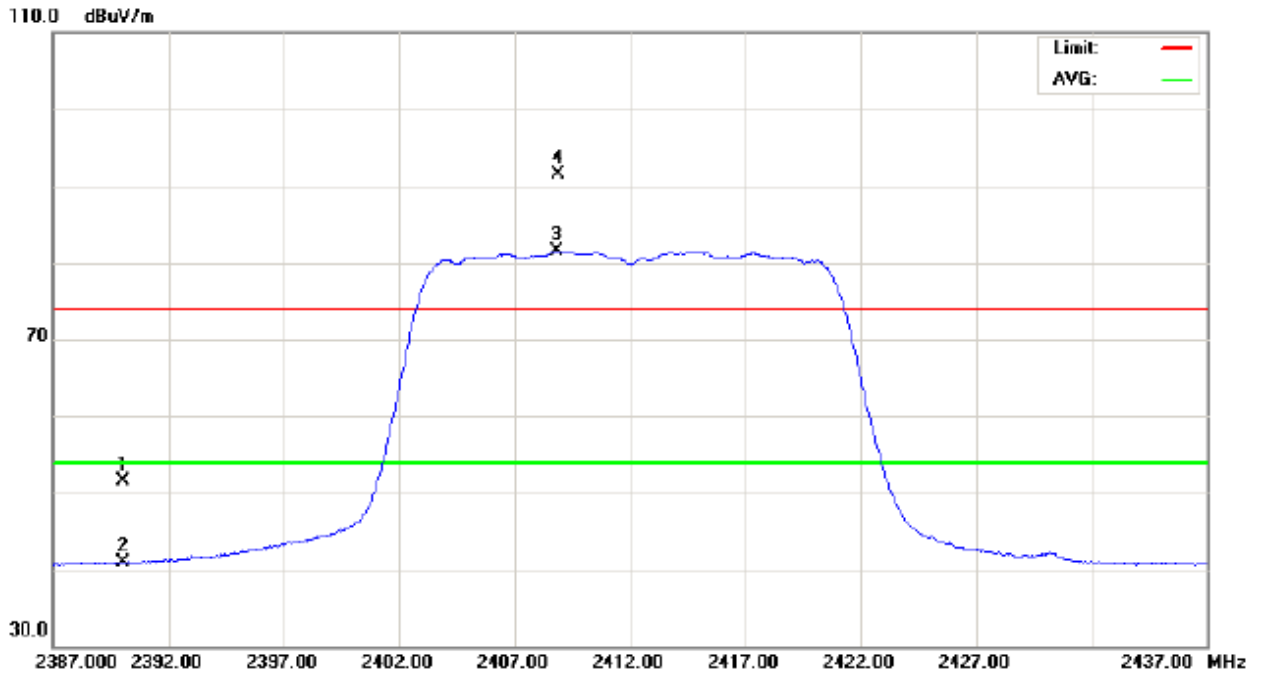
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	19.17	8.53	32.30	51.47	40.83	74.00	54.00	X
2483.50	H	19.44	8.43	32.29	51.73	40.72	74.00	54.00	X

**Remark :**

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



802.11n/20M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M (Port. 0 + Port. 1) (Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

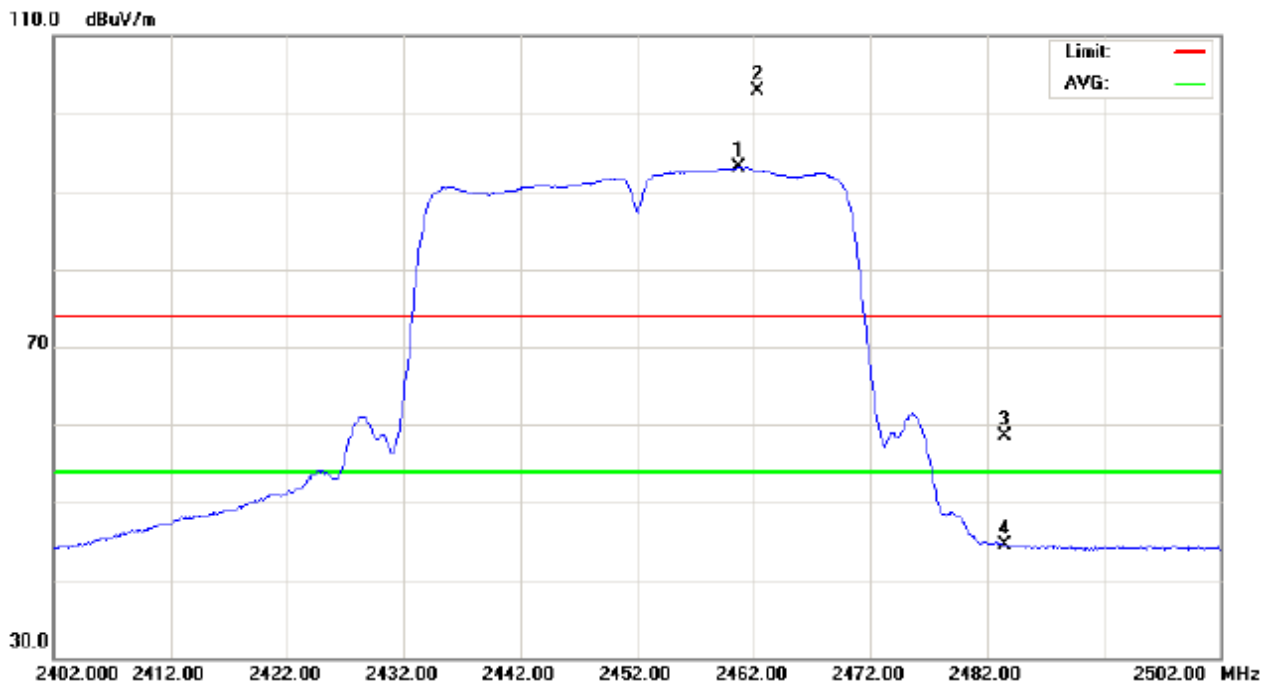
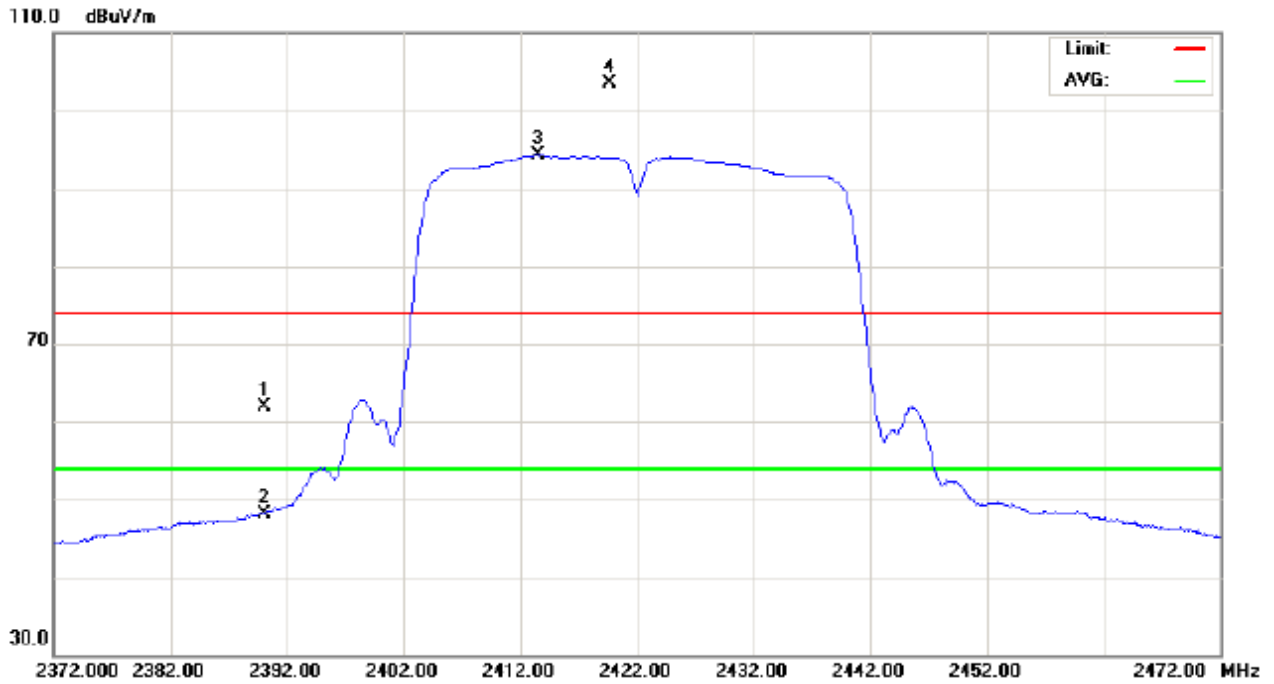
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	29.51	15.81	32.30	61.81	48.11	74.00	54.00	X
2483.50	V	26.22	12.19	32.29	58.51	44.48	74.00	54.00	X

**Remark :**

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



802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Vertical)





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	30 °C	Relative Humidity :	63%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M(Port. 0 + Port. 1) (Horizontal)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"> <li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li> <li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li> </ol>		

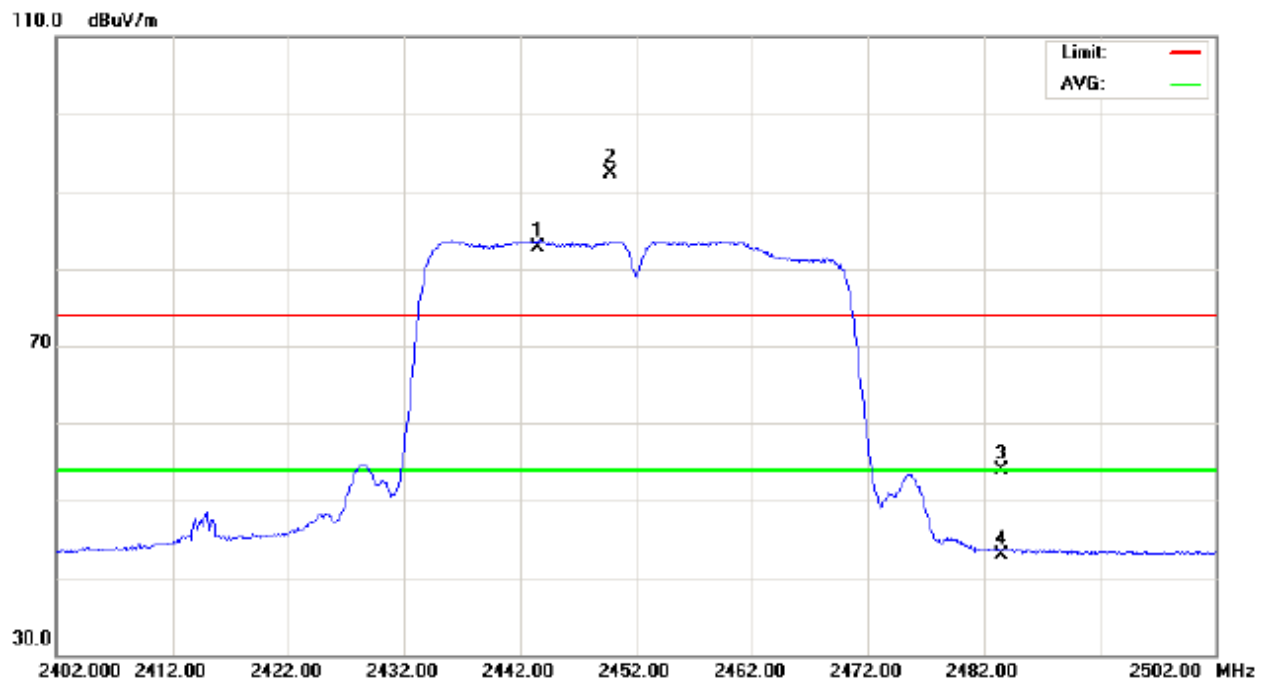
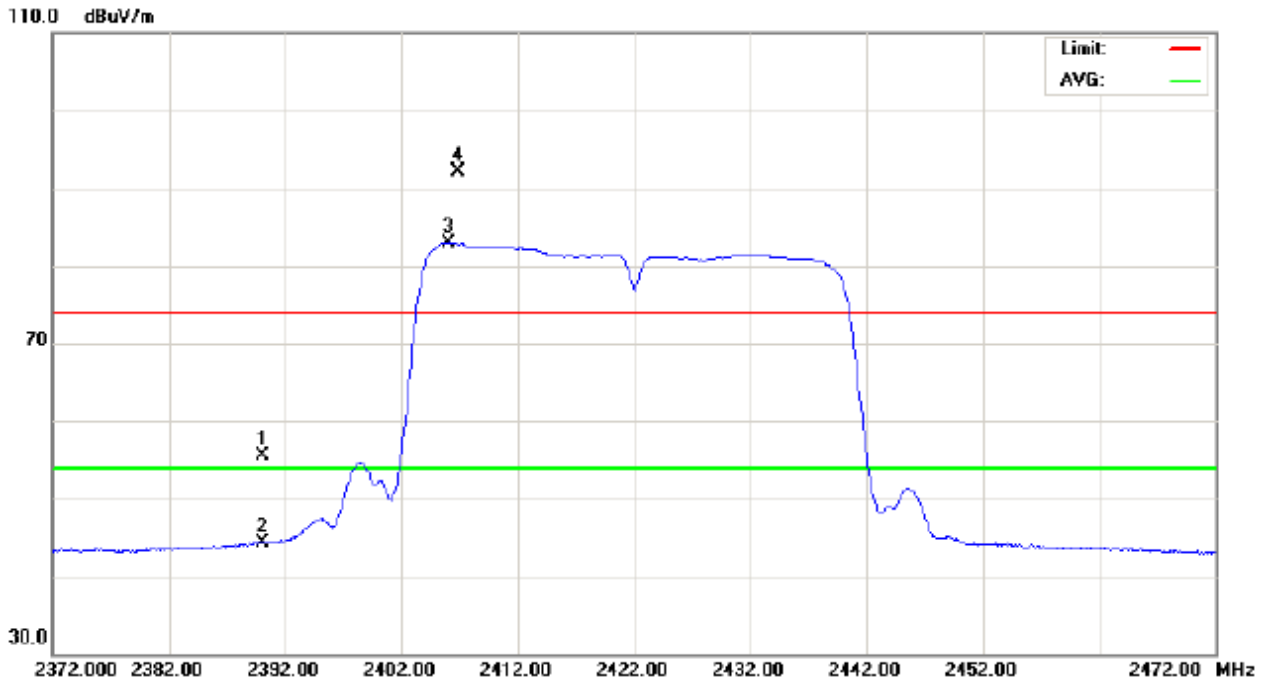
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	23.18	12.02	32.30	55.48	44.32	74.00	54.00	X
2483.50	H	21.63	10.66	32.29	53.92	42.95	74.00	54.00	X

**Remark :**

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



802.11n/40M (Port 0 + Port 1) (Restricted Bands Requirements, Horizontal)





**5. BANDWIDTH TEST**

**5.1 APPLIED PROCEDURES / LIMIT**

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

**5.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 16, 2010

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

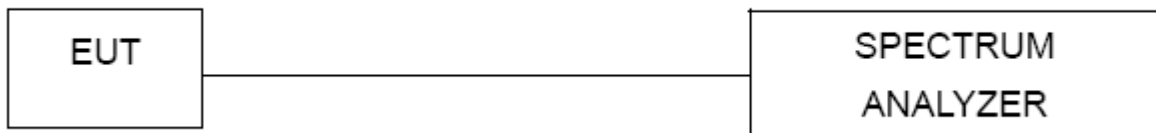
**5.1.2 TEST PROCEDURE**

- 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 = Auto.

**5.1.3 DEVIATION FROM STANDARD**

No deviation.

**5.1.4 TEST SETUP**



**5.1.5 EUT OPERATION CONDITIONS**

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

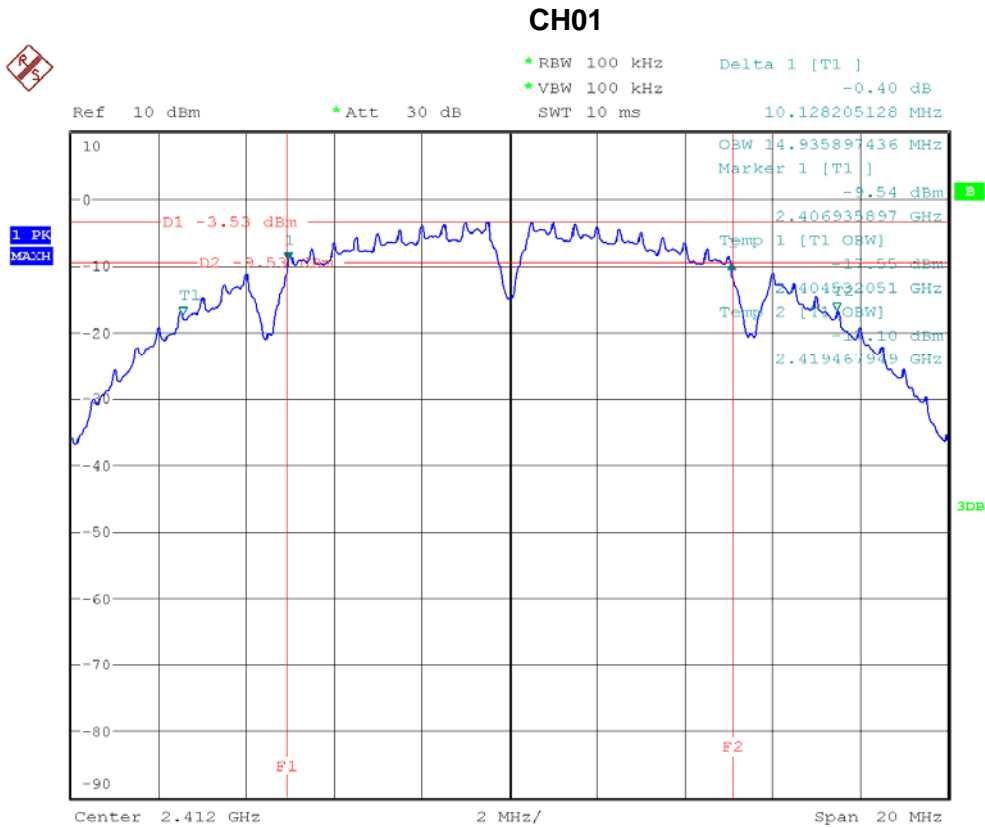




**5.1.6 TEST RESULTS**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	10.13	>=500KHz
CH06	2437	10.14	>=500KHz
CH11	2462	10.13	>=500KHz



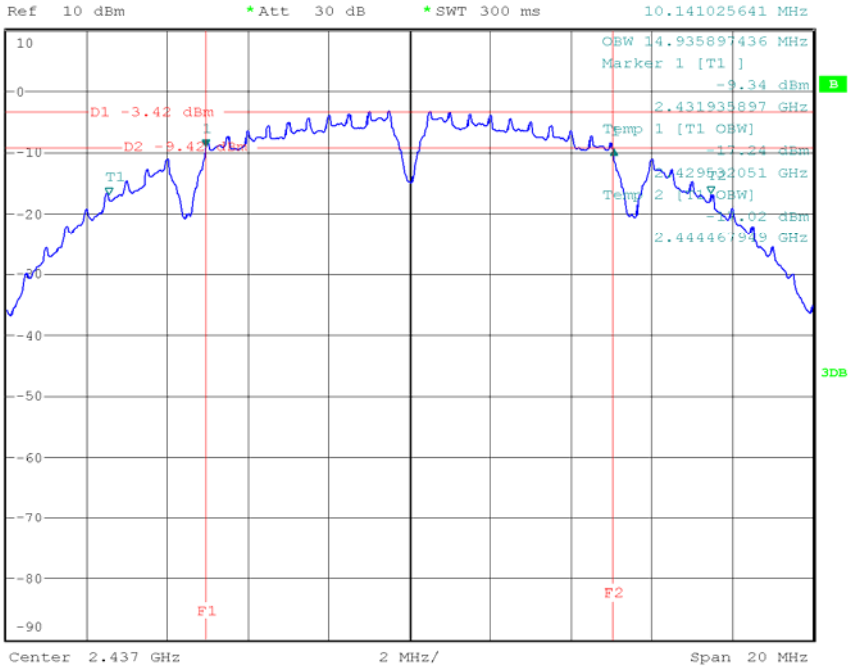
Date: 1.SEP.2009 10:01:15



### CH06



\*RBW 100 kHz      Delta 1 [T1 ]  
 \*VBW 100 kHz      -0.43 dB  
 \*SWT 300 ms      10.141025641 MHz

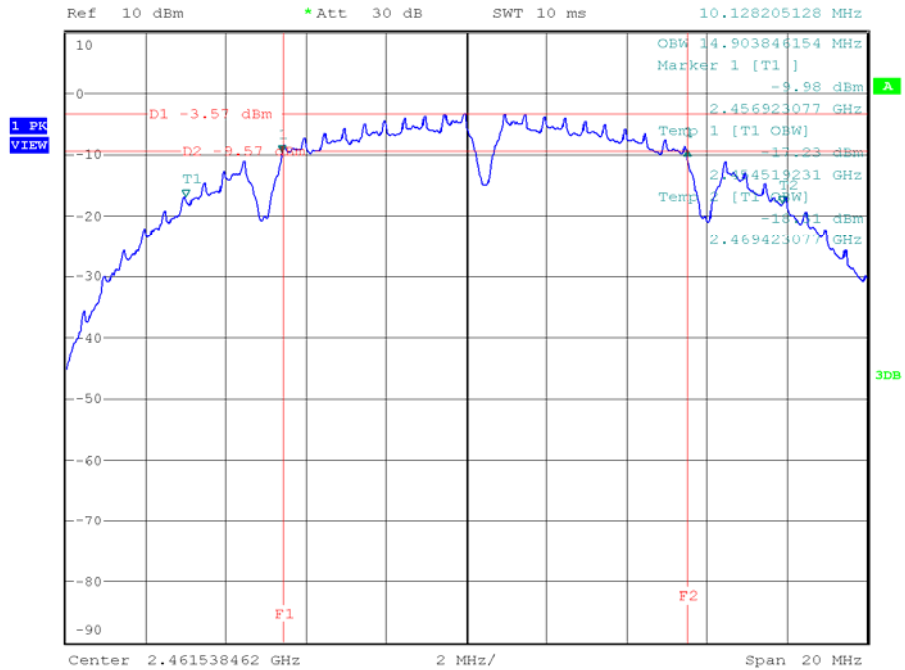


Date: 1.SEP.2009 10:13:56

### CH11



\*RBW 100 kHz      Delta 1 [T1 ]  
 \*VBW 100 kHz      0.37 dB  
 \*SWT 10 ms      10.128205128 MHz



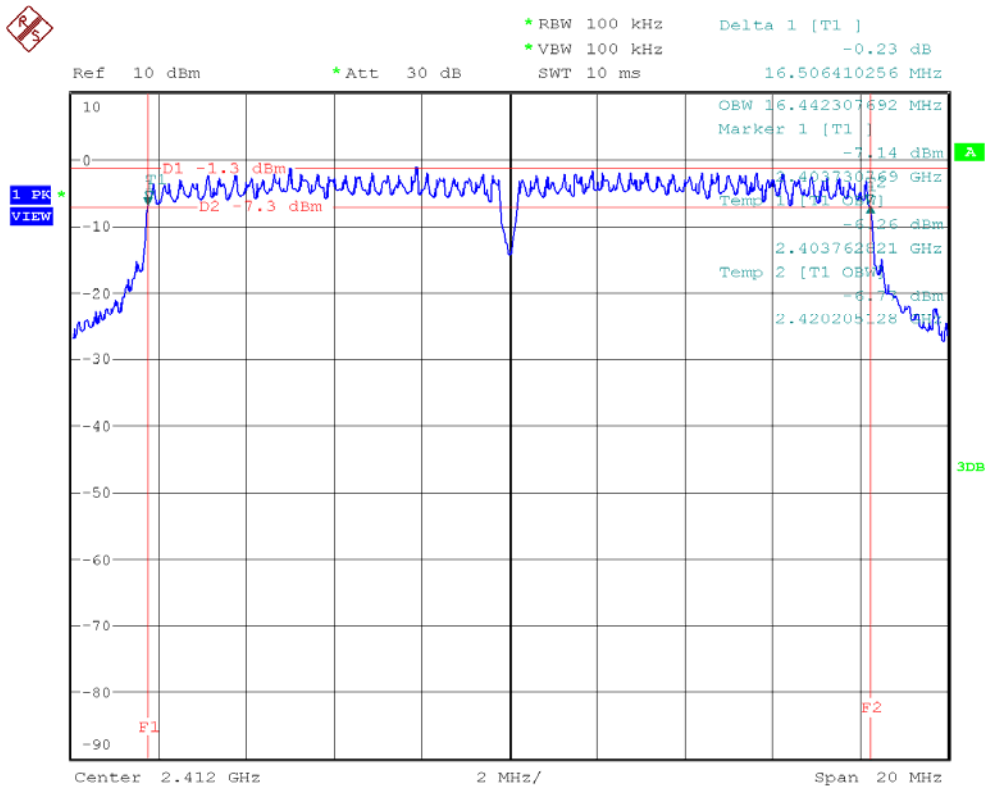
Date: 1.SEP.2009 10:27:19



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.51	>=500KHz
CH06	2437	16.51	>=500KHz
CH11	2462	16.57	>=500KHz

**CH01**



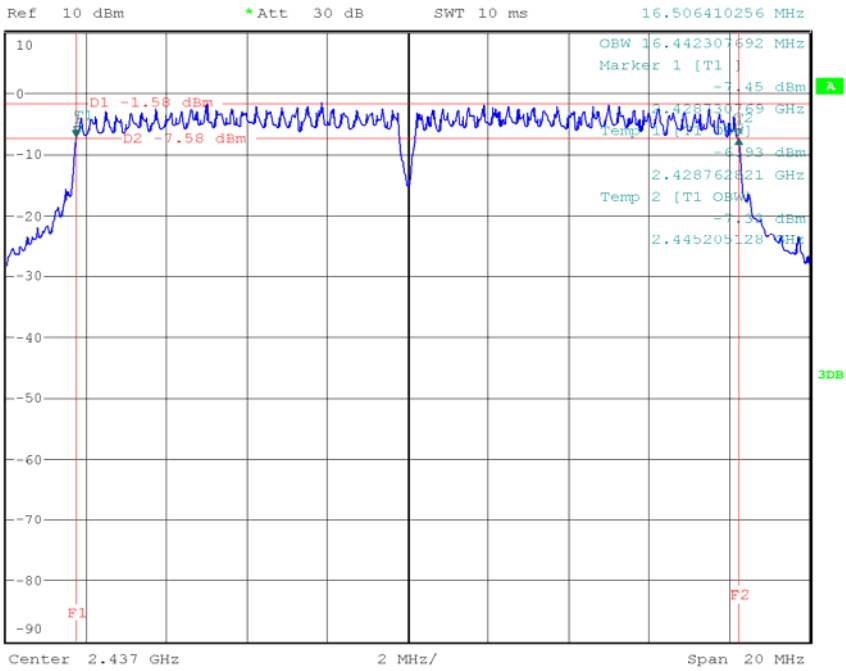
Date: 1.SEP.2009 15:11:04



### CH06



\*RBW 100 kHz      Delta 1 [T1 ]  
\*VBW 100 kHz      -0.39 dB  
SWT 10 ms      16.506410256 MHz

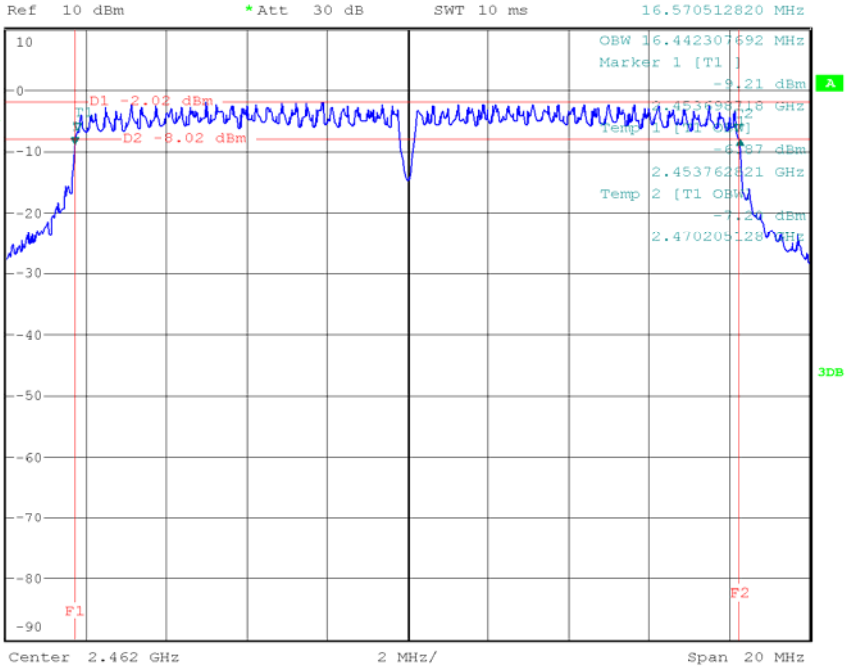


Date: 1.SEP.2009 15:15:25

### CH11



\*RBW 100 kHz      Delta 1 [T1 ]  
\*VBW 100 kHz      0.76 dB  
SWT 10 ms      16.570512820 MHz

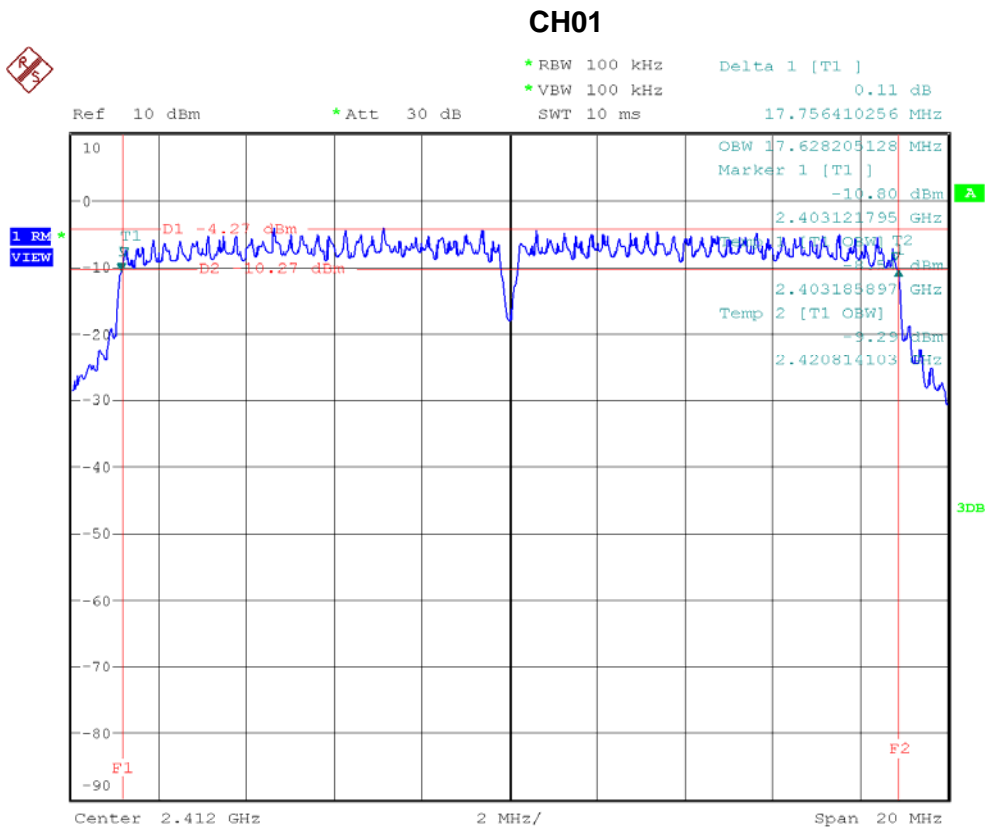


Date: 1.SEP.2009 15:18:04



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11 (Port. 0)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.76	>=500KHz
CH06	2437	17.76	>=500KHz
CH11	2462	17.72	>=500KHz



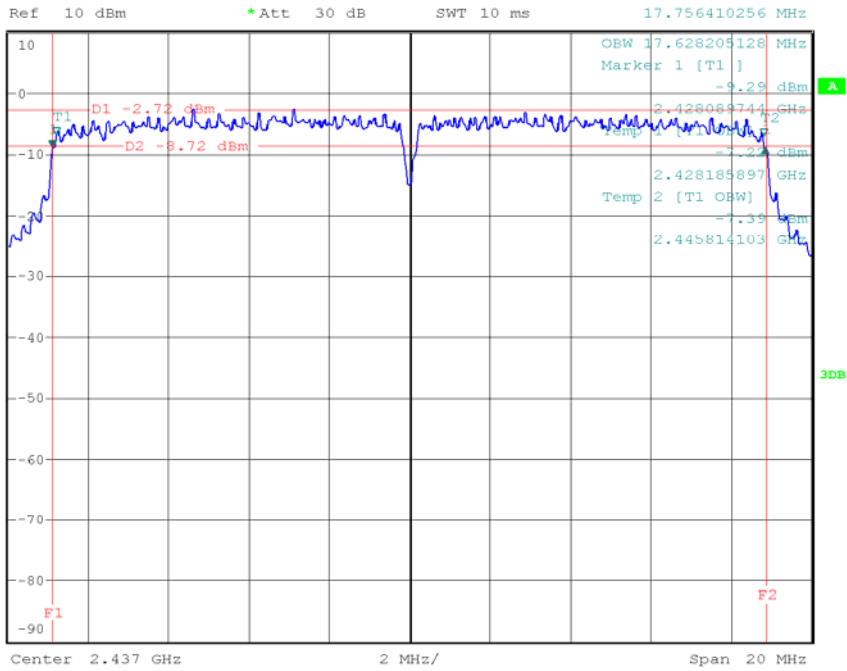
Date: 1.SEP.2009 15:54:13



### CH06



\*RBW 100 kHz      Delta 1 [T1 ]  
\*VBW 100 kHz      0.09 dB  
SWT 10 ms      17.756410256 MHz

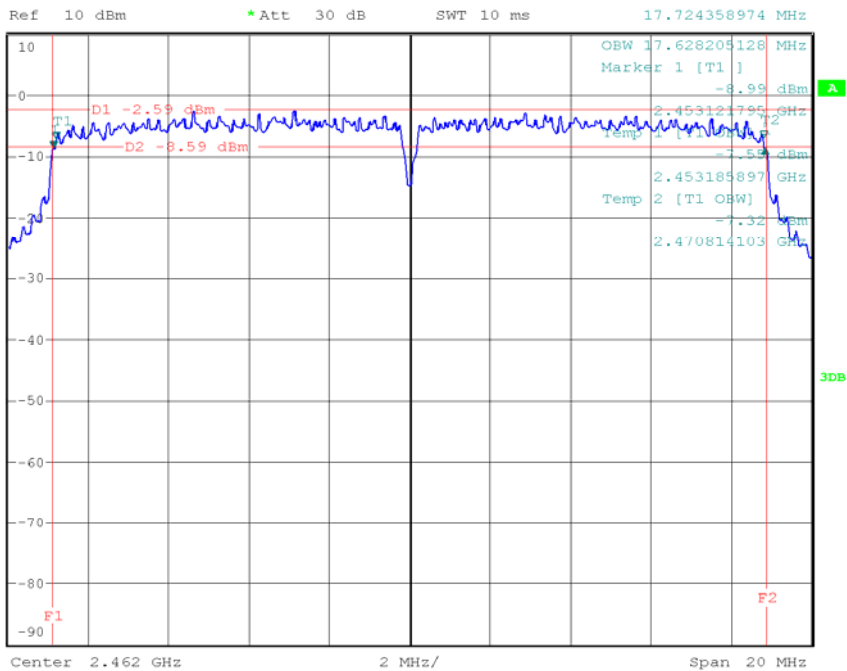


Date: 1.SEP.2009 16:05:45

### CH11



\*RBW 100 kHz      Delta 1 [T1 ]  
\*VBW 100 kHz      -0.11 dB  
SWT 10 ms      17.724358974 MHz

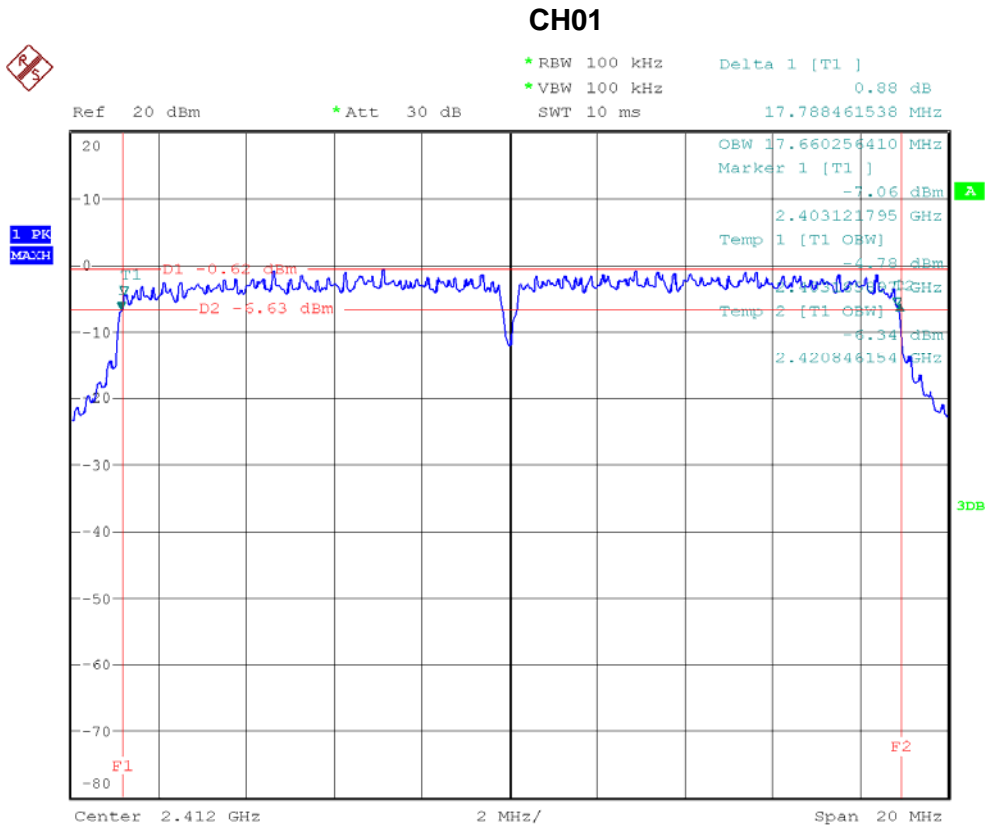


Date: 1.SEP.2009 16:12:26



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11 (Port. 1)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.79	>=500KHz
CH06	2437	17.79	>=500KHz
CH11	2462	17.76	>=500KHz



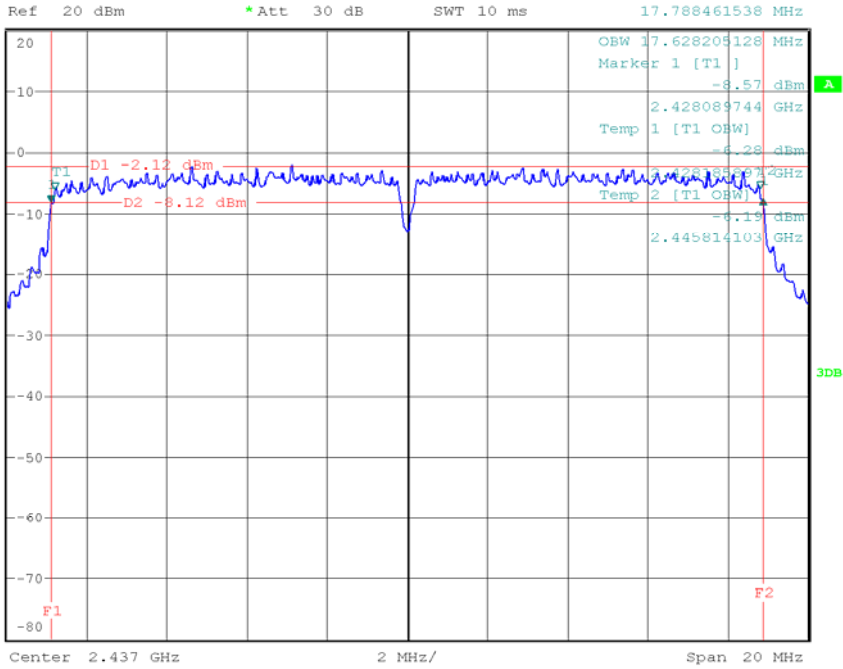
Date: 7.SEP.2009 14:02:21



### CH06



\*RBW 100 kHz      Delta 1 [T1 ]  
\*VBW 100 kHz      0.77 dB  
SWT 10 ms      17.788461538 MHz

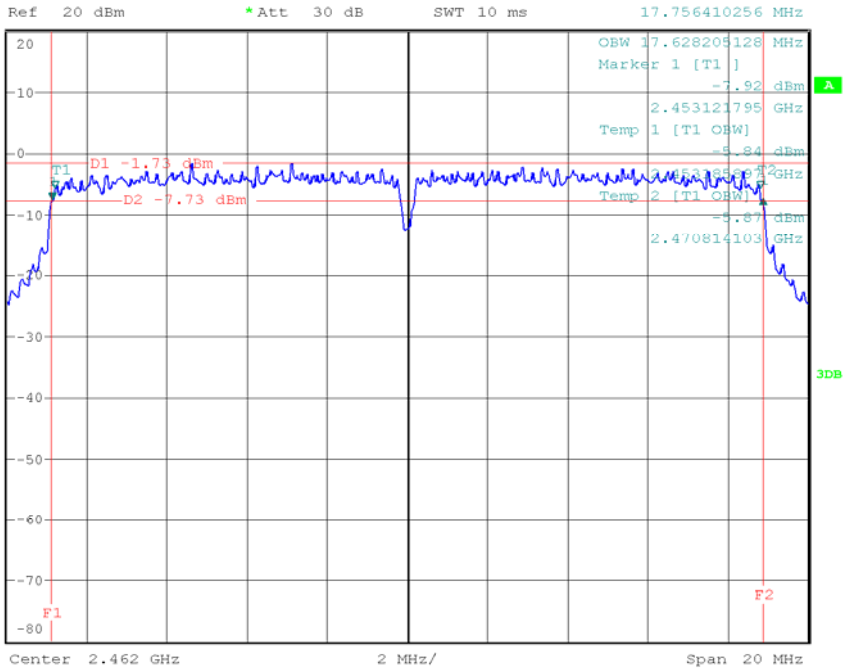


Date: 7.SEP.2009 14:09:28

### CH11



\*RBW 100 kHz      Delta 1 [T1 ]  
\*VBW 100 kHz      0.31 dB  
SWT 10 ms      17.756410256 MHz



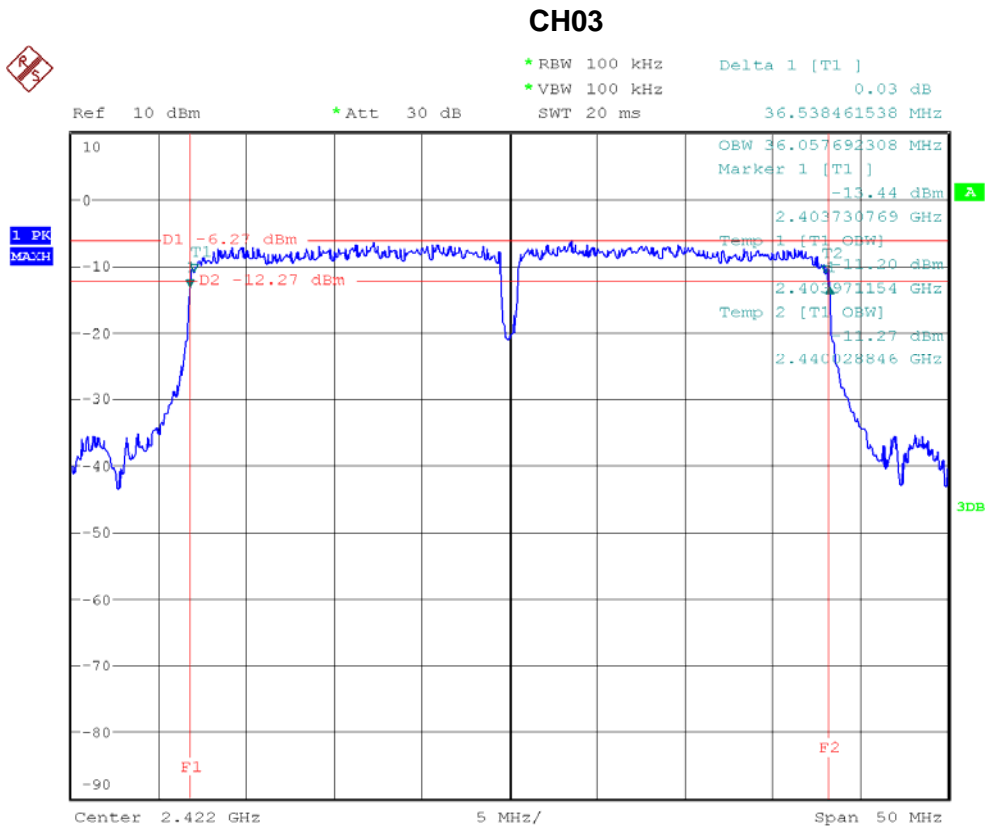
Date: 7.SEP.2009 14:10:41





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09 (Port. 0)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	36.54	>=500KHz
CH06	2437	36.54	>=500KHz
CH09	2452	36.38	>=500KHz



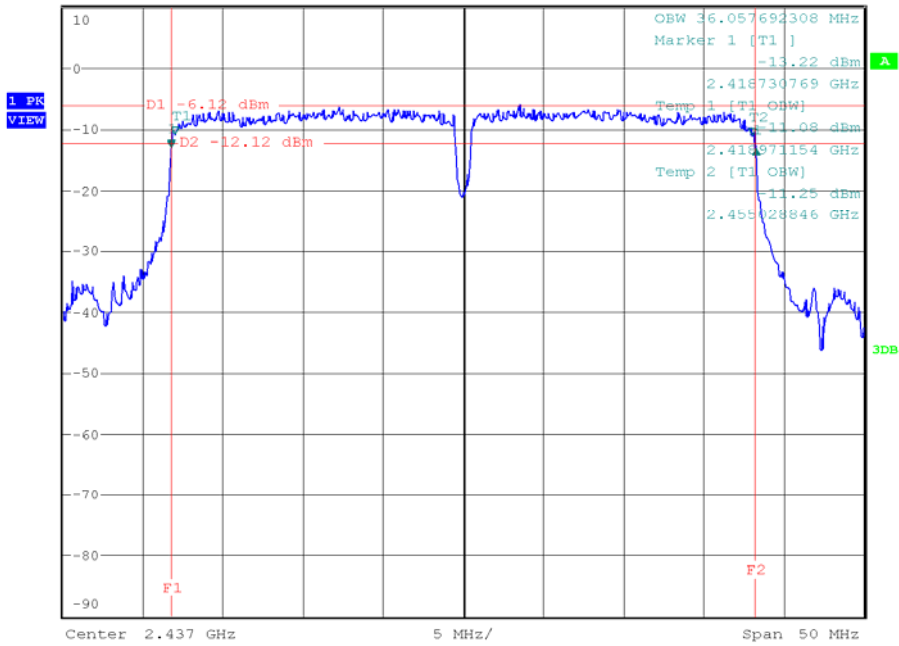
Date: 1.SEP.2009 16:35:08



CH06



\* RBW 100 kHz Delta 1 [T1 ]  
 \* VBW 100 kHz -0.21 dB  
 Ref 10 dBm \* Att 30 dB SWT 20 ms 36.538461538 MHz

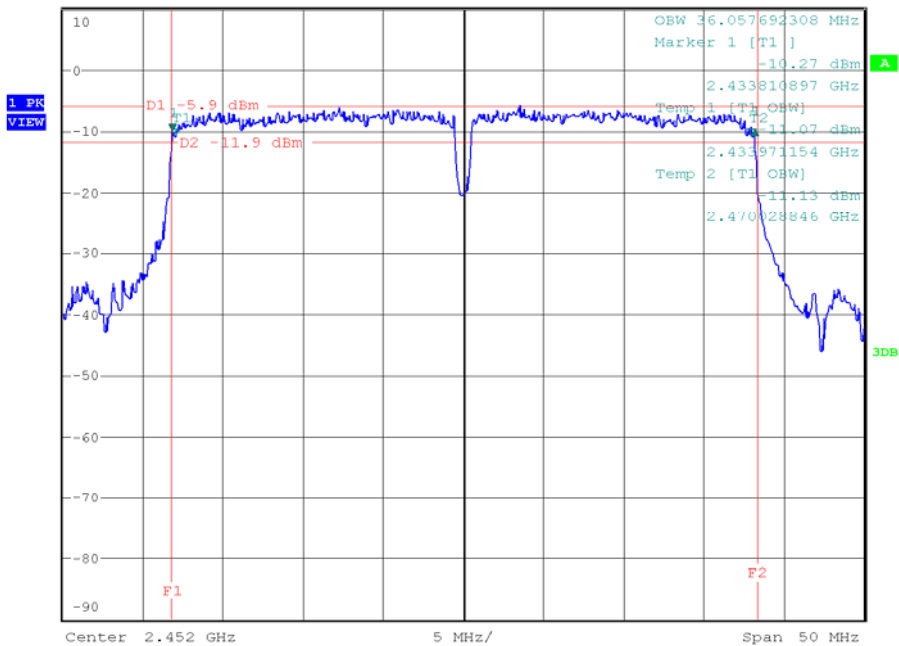


Date: 1.SEP.2009 16:43:19

CH09



\* RBW 100 kHz Delta 1 [T1 ]  
 \* VBW 100 kHz 0.21 dB  
 Ref 10 dBm \* Att 30 dB SWT 20 ms 36.378205128 MHz

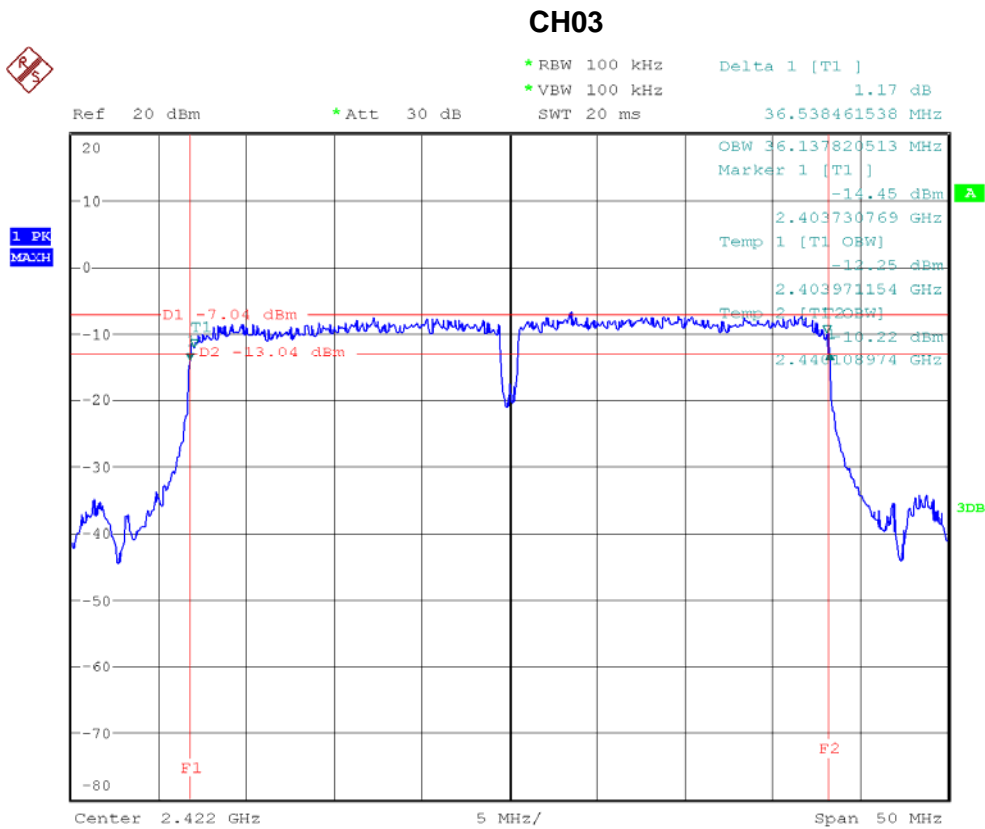


Date: 1.SEP.2009 16:47:24



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09 (Port. 1)		

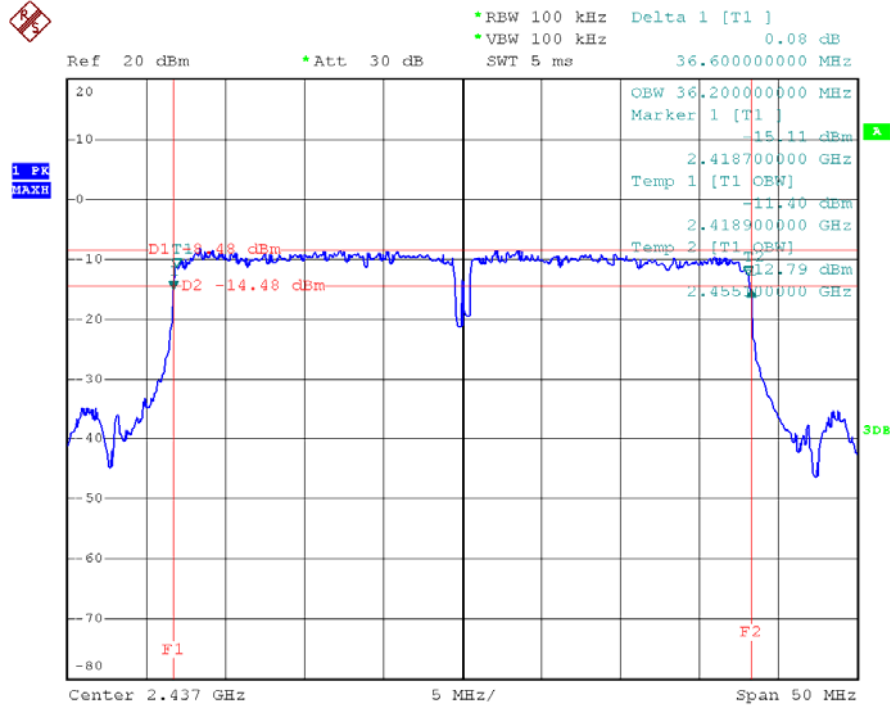
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	36.54	>=500KHz
CH06	2437	36.60	>=500KHz
CH09	2452	36.54	>=500KHz



Date: 7.SEP.2009 14:19:04

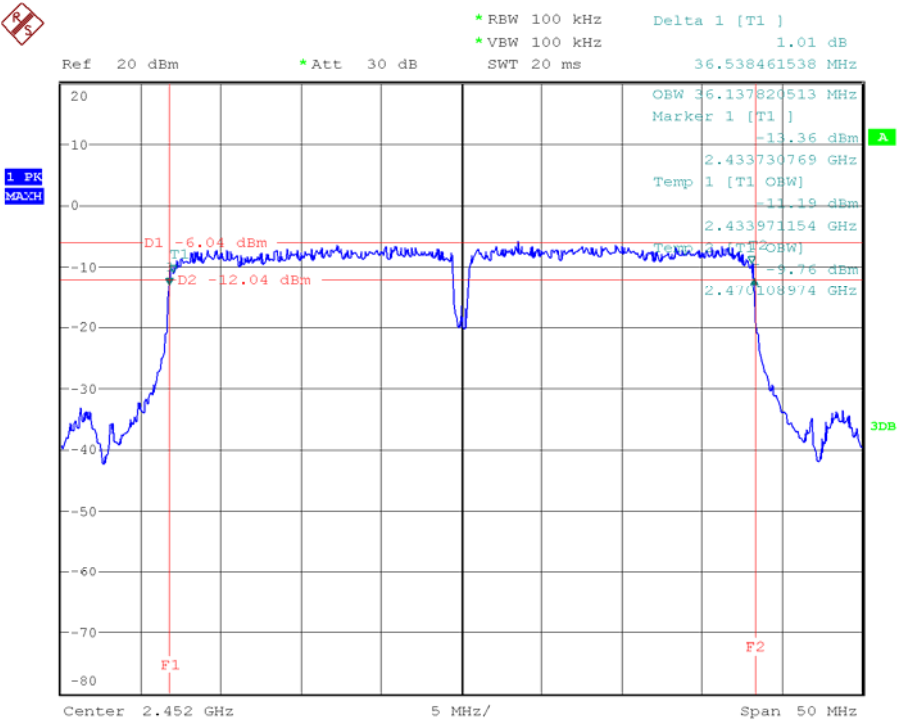


CH06



Date: 7.SEP.2009 14:41:51

CH09



Date: 7.SEP.2009 14:28:10



**6. PEAK OUTPUT POWER TEST**

**6.1 APPLIED PROCEDURES / LIMIT**

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

**6.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 10, 2010
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2010

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

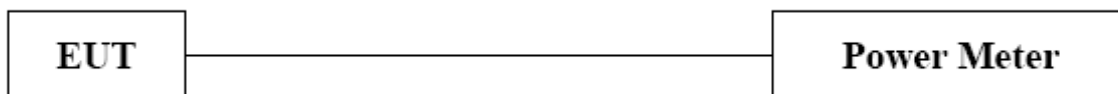
**6.1.2 TEST PROCEDURE**

- 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= 1MHz, Sweep time = Auto.

**6.1.3 DEVIATION FROM STANDARD**

No deviation.

**6.1.4 TEST SETUP**



**6.1.5 EUT OPERATION CONDITIONS**

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



**6.1.6 TEST RESULTS**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	15.48	30	1
CH06	2437	14.67	30	1
CH11	2462	14.57	30	1

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	13.57	30	1
CH06	2437	14.23	30	1
CH11	2462	14.45	30	1



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11		

<b>Port. 0</b>					
Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH01	2412	12.35	0.0172	30	1
CH06	2437	14.11	0.0258	30	1
CH11	2462	14.48	0.0281	30	1

<b>Port. 1</b>					
Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH01	2412	12.21	0.0166	30	1
CH06	2437	14.03	0.0253	30	1
CH11	2462	14.38	0.0274	30	1

<b>Total (Port. 0 + Port. 1)</b>					
Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH01	2412	15.29	0.0338	30	1
CH06	2437	17.08	0.0511	30	1
CH11	2462	17.44	0.0555	30	1

Remark :

- (1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**  
**And after obtain each individual transmitter chain power, then sum the output power by using the following formula:**  

$$((\text{dBm}/\text{Chain 1})/10^{\text{Log}}) + ((\text{dBm}/\text{Chain 2})/10^{\text{log}}) + ((\text{dBm}/\text{Chain N})/10^{\text{log}}) =$$
**Combined peak output power in mW.**
- (2) **Antenna Gain=3 dBi.**



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09		

Port. 0					
Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH03	2422	12.57	0.0181	30	1
CH06	2437	14.05	0.0254	30	1
CH09	2452	14.43	0.0277	30	1

Port. 1					
Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH03	2422	12.49	0.0177	30	1
CH06	2437	13.93	0.0247	30	1
CH09	2452	14.21	0.0264	30	1

Total (Port. 0 + Port. 1)					
Test Channel	Frequency (MHz)	Peak Output Power		LIMIT (dBm)	LIMIT (W)
		(dBm)	(W)		
CH03	2422	15.54	0.0358	30	1
CH06	2437	17.00	0.0501	30	1
CH09	2452	17.33	0.0541	30	1

Remark :

- (1) **The MIMO test requirement, RF conducted output power shall measure each transmitter chain by using channel power method.**  
**And after obtain each individual transmitter chain power, then sum the output power by using the following formula:**  

$$((\text{dBm}/\text{Chain 1})/10^{\wedge}\text{Log}) + ((\text{dBm}/\text{Chain 2})/10^{\wedge}\text{log}) + ((\text{dBm}/\text{ChainN})/10^{\wedge}\text{log}) =$$
**Combined peak output power in mW.**
- (2) **Antenna Gain=3 dBi.**





**7. ANTENNA CONDUCTED SPURIOUS EMISSION**

**7.1 APPLIED PROCEDURES / LIMIT**

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

**7.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 16, 2010

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

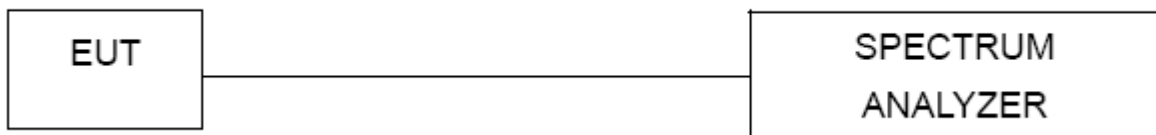
**7.1.2 TEST PROCEDURE**

- 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 = Auto.

**7.1.3 DEVIATION FROM STANDARD**

No deviation.

**7.1.4 TEST SETUP**



**7.1.5 EUT OPERATION CONDITIONS**

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



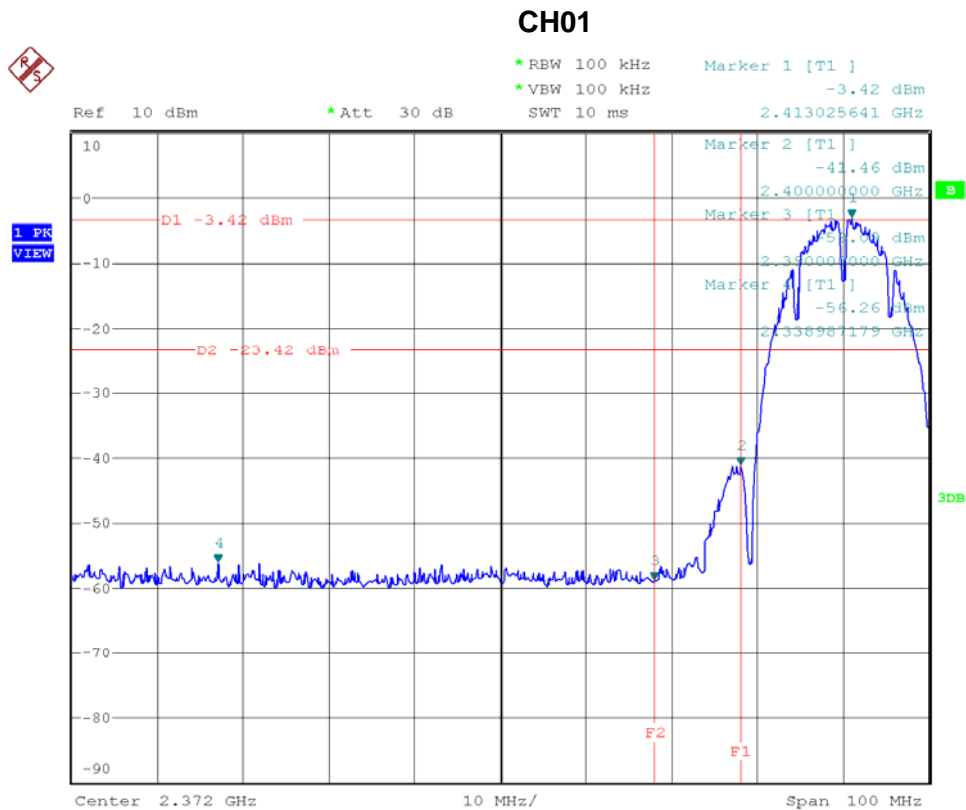
**7.1.6 TEST RESULTS**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2338.99	-56.26	2497.15	-55.67

**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 level of the desired power.



Date: 1.SEP.2009 10:03:14



### CH11

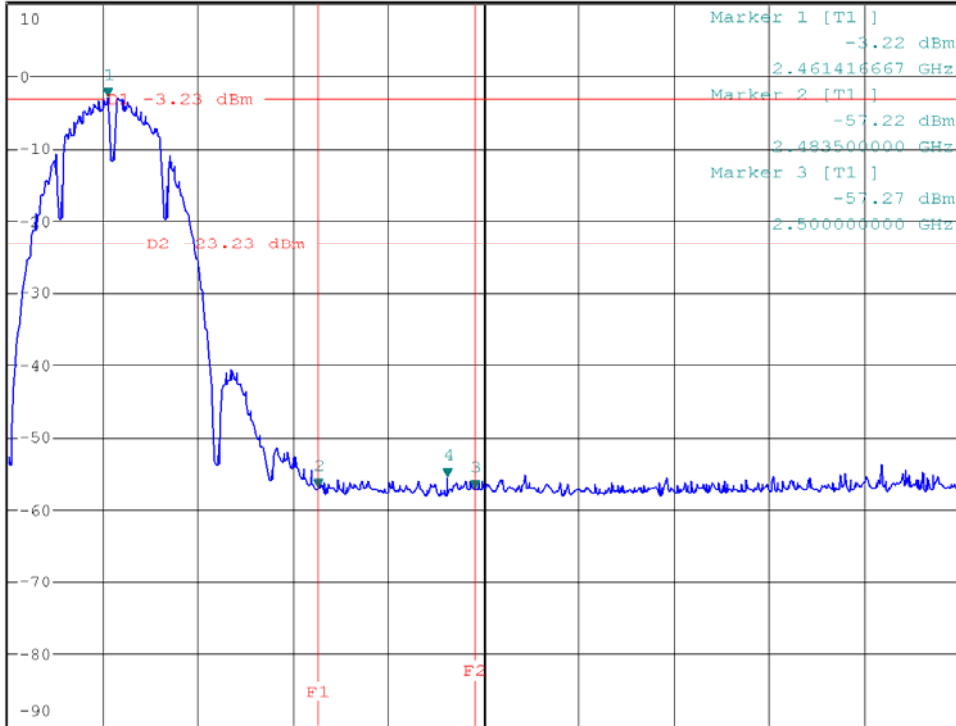


\*RBW 100 kHz      Marker 4 [T1]      -55.67 dBm  
\*VBW 100 kHz  
SWT 10 ms      2.497153846 GHz

Ref 10 dBm

\*Att 30 dB

1 PK  
MAXH



Center 2.501 GHz

10 MHz/

Span 100 MHz

Date: 1.SEP.2009 10:18:43

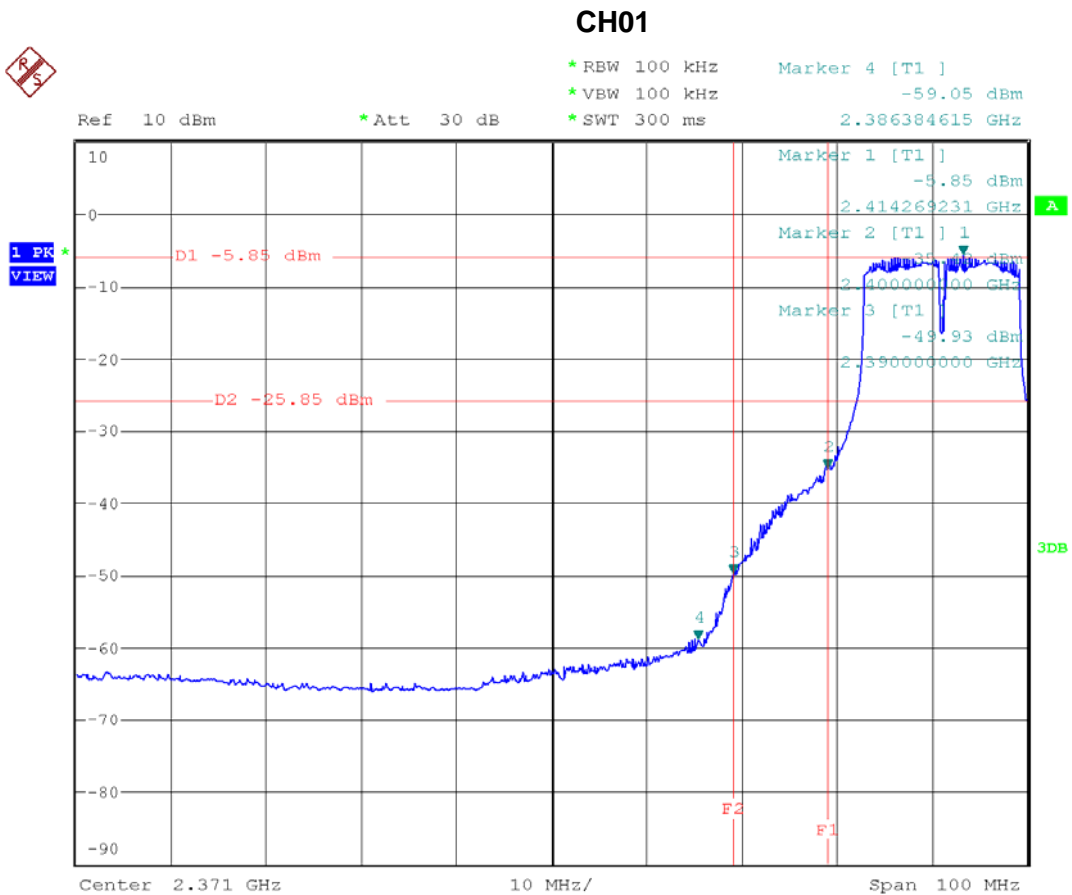


EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2386.38	-59.05	2483.50	-46.67

**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 level of the desired power.



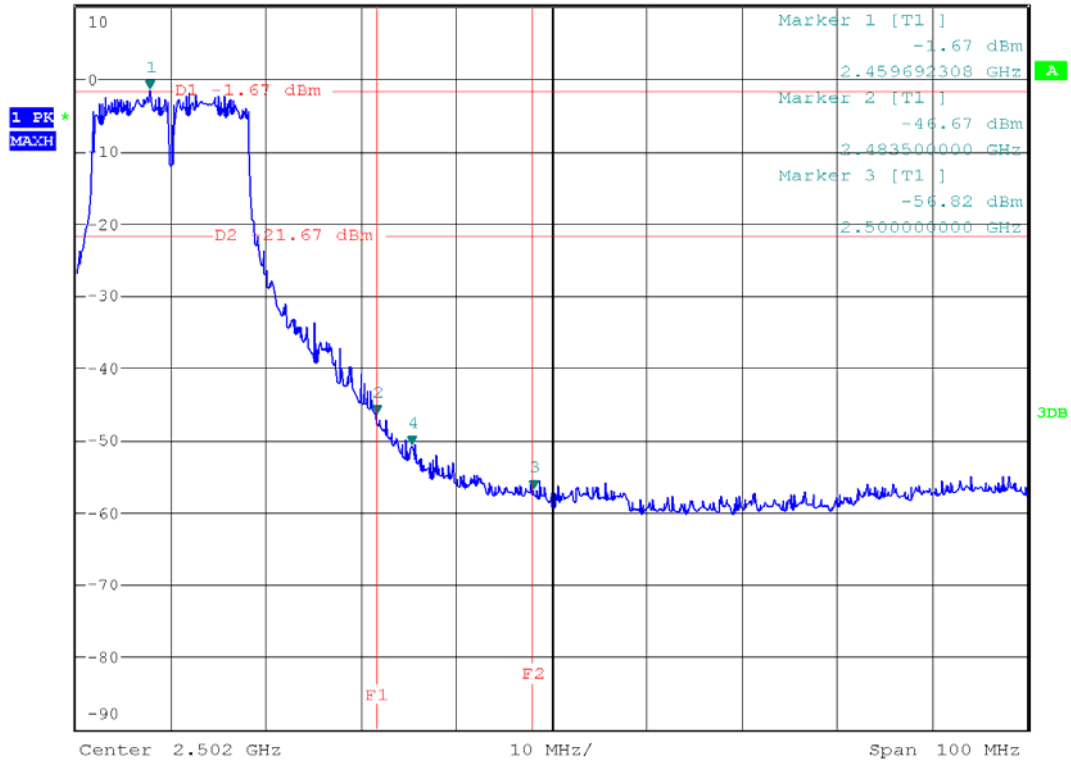
Date: 1.SEP.2009 15:09:22



CH11



Ref 10 dBm \*Att 30 dB \*RBW 100 kHz Marker 4 [T1] -50.82 dBm  
\*VBW 100 kHz 2.487256410 GHz  
SWT 10 ms



Date: 1.SEP.2009 15:19:51



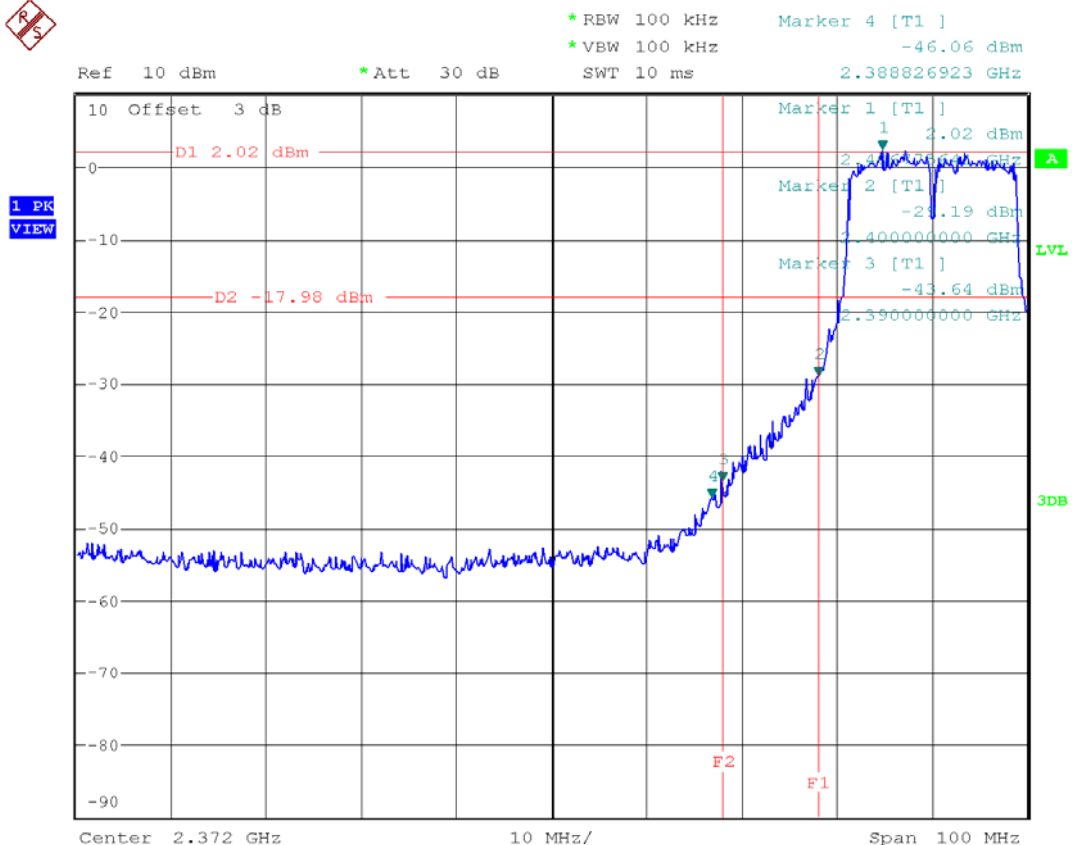
EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH11 (Port 0 + Port 1 )		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2390.00	-43.64	2483.50	-42.48

**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 level of the desired power.

**CH01(Port 0 + Port 1 )**



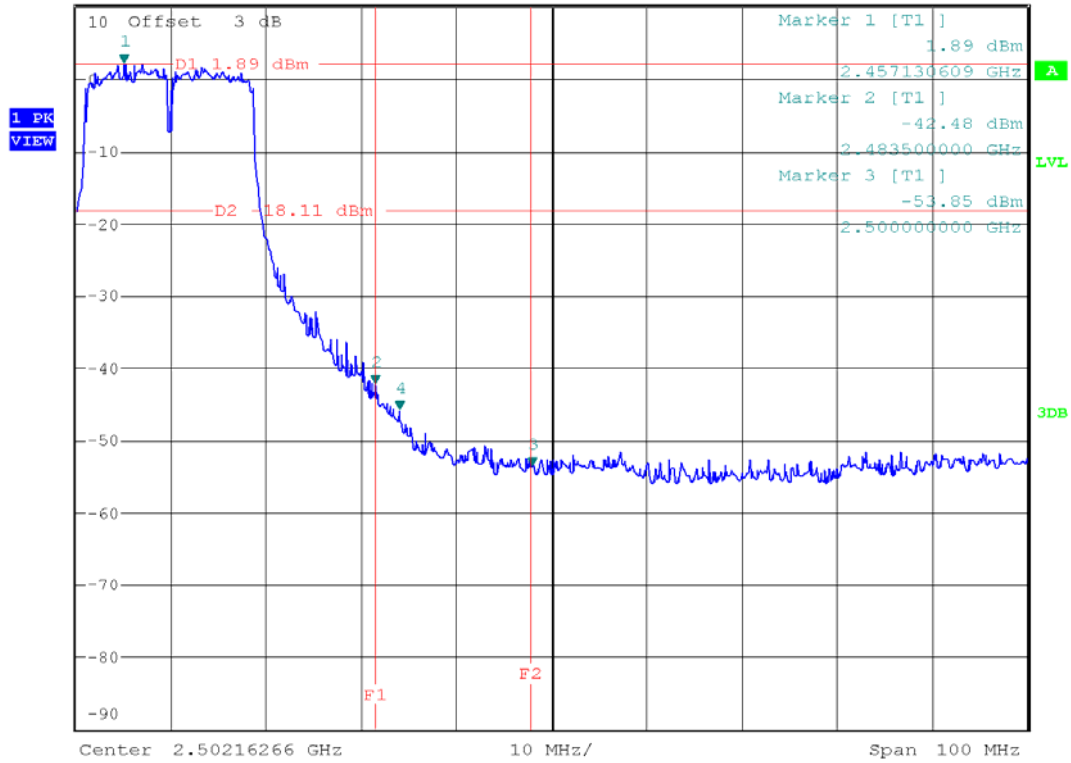
Date: 1.SEP.2009 17:23:03



### CH11(Port 0 + Port 1)



Ref 10 dBm      \*Att 30 dB      \*RBW 100 kHz      Marker 4 [T1]      -45.95 dBm  
\*VBW 100 kHz      2.486137019 GHz  
SWT 10 ms



Date: 1.SEP.2009 17:32:32



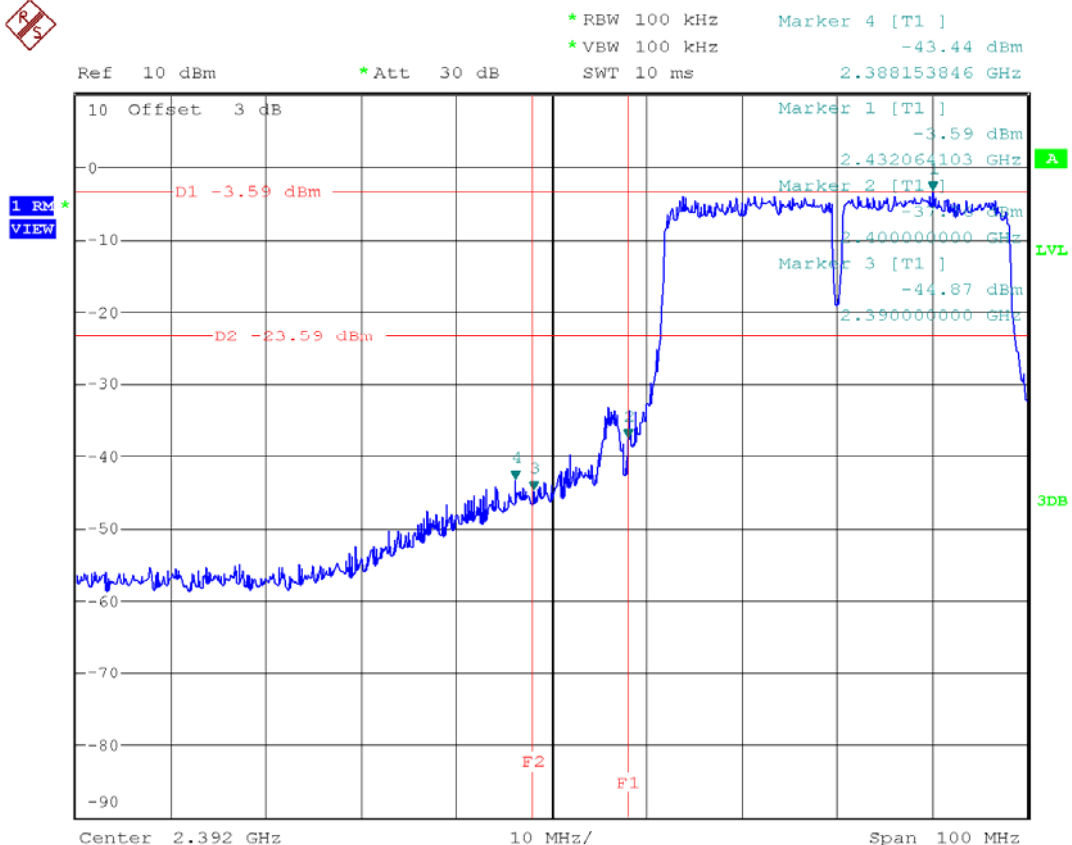
EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH09 (Port 0 + Port 1 )		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2388.15	-43.44	2487.89	-43.20

**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 level of the desired power.

**CH03 (Port 0 + Port 1 )**



Date: 1.SEP.2009 17:15:49

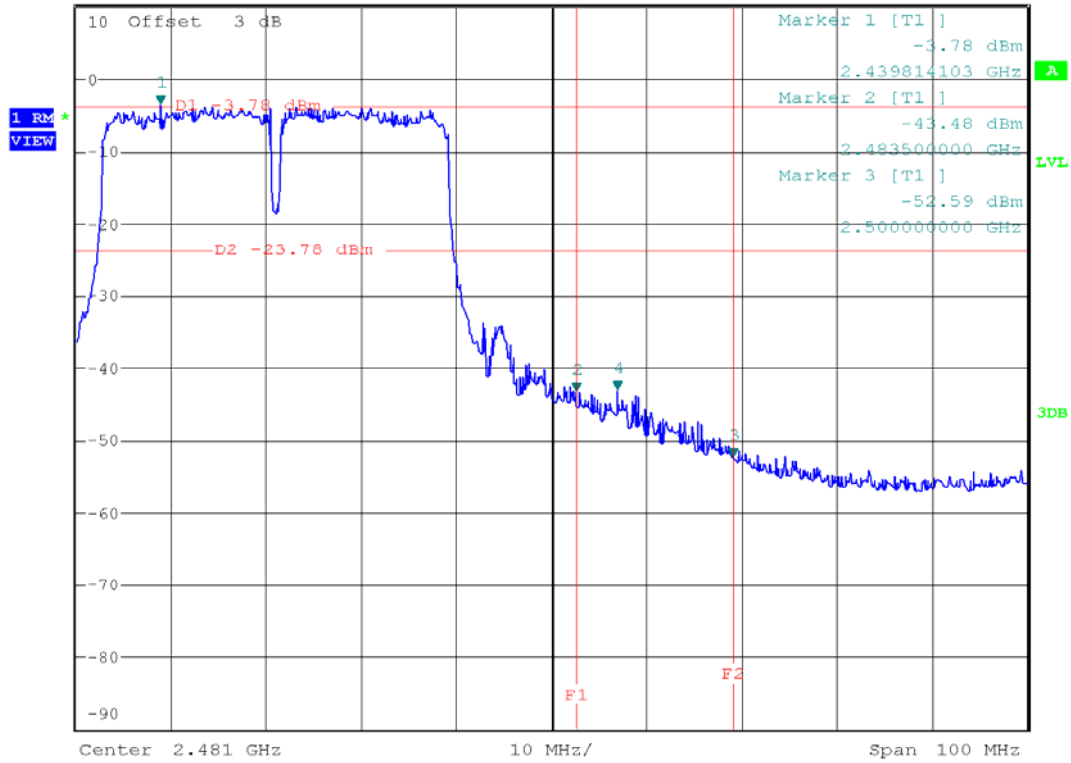




### CH09 (Port 0 + Port 1 )



Ref 10 dBm      \*Att 30 dB      \*RBW 100 kHz      Marker 4 [T1]      -43.20 dBm  
\*VBW 100 kHz      2.487891026 GHz  
SWT 10 ms



Date: 1.SEP.2009 17:13:54



**8. POWER SPECTRAL DENSITY TEST**

**8.1 APPLIED PROCEDURES / LIMIT**

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

**8.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 16, 2010

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

**8.1.2 TEST PROCEDURE**

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

**8.1.3 DEVIATION FROM STANDARD**

No deviation.

**8.1.4 TEST SETUP**



**8.1.5 EUT OPERATION CONDITIONS**

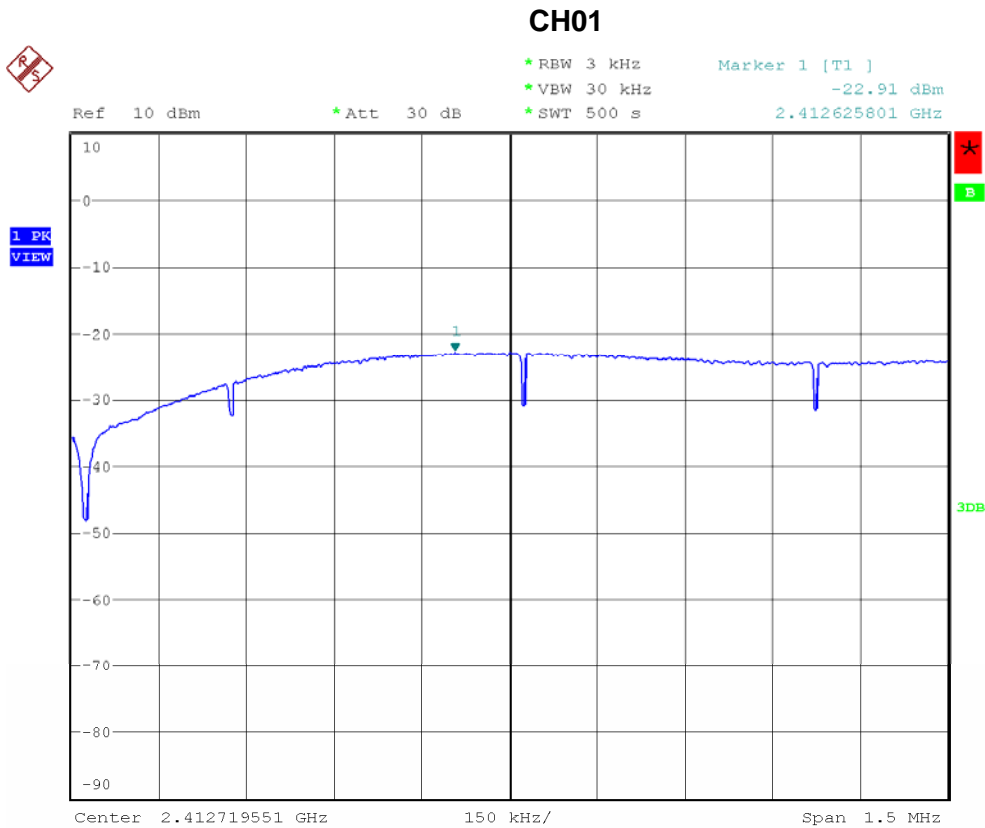
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



**8.1.6 TEST RESULTS**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-22.91	8
CH06	2437	-22.84	8
CH11	2462	-22.87	8



Date: 1.SEP.2009 10:05:17

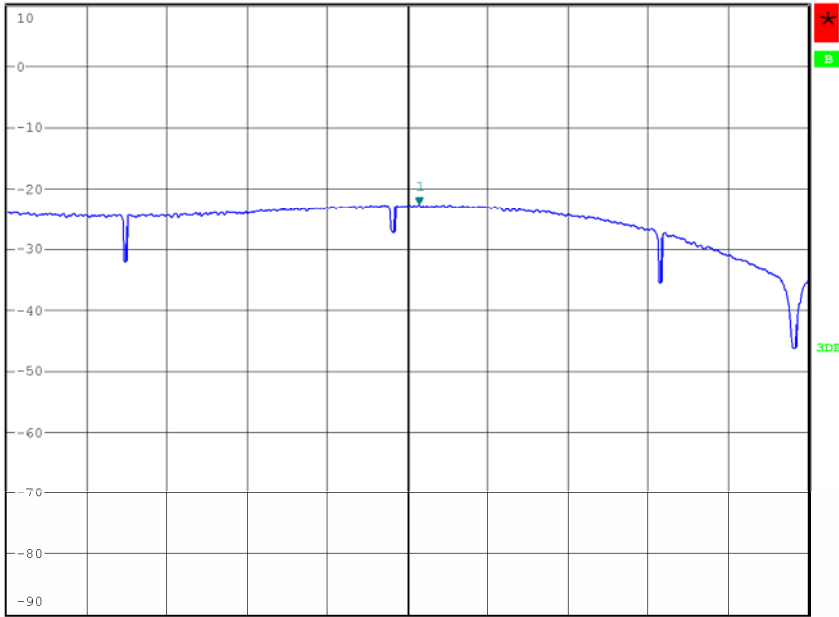


### CH06



\* RBW 3 kHz      Marker 1 [T1 ]  
\* VBW 30 kHz      -22.84 dBm  
\* SWT 500 s      2.436292468 GHz

Ref 10 dBm      \* Att 30 dB



Center 2.436270833 GHz      150 kHz/      Span 1.5 MHz

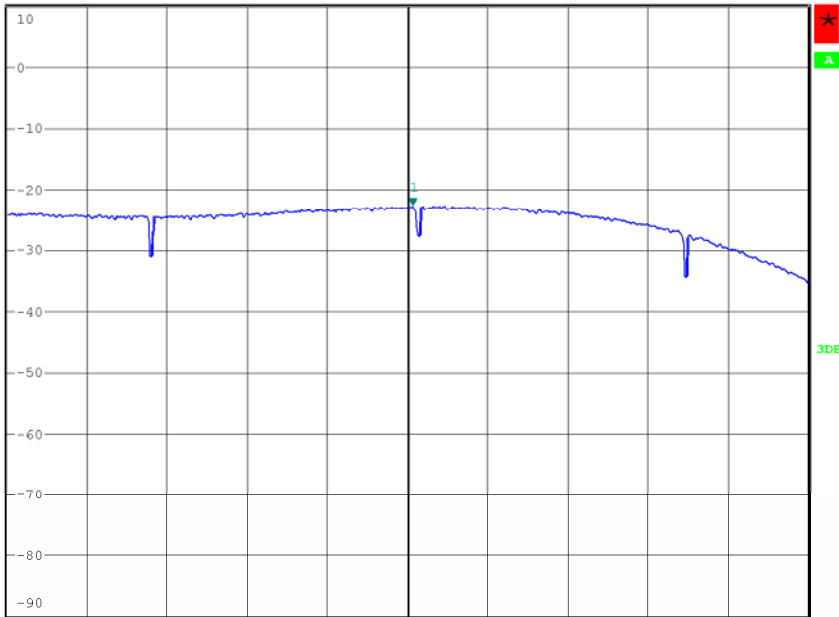
Date: 1.SEP.2009 10:16:39

### CH11



\* RBW 3 kHz      Marker 1 [T1 ]  
\* VBW 30 kHz      -22.87 dBm  
\* SWT 500 s      2.461232372 GHz

Ref 10 dBm      \* Att 30 dB



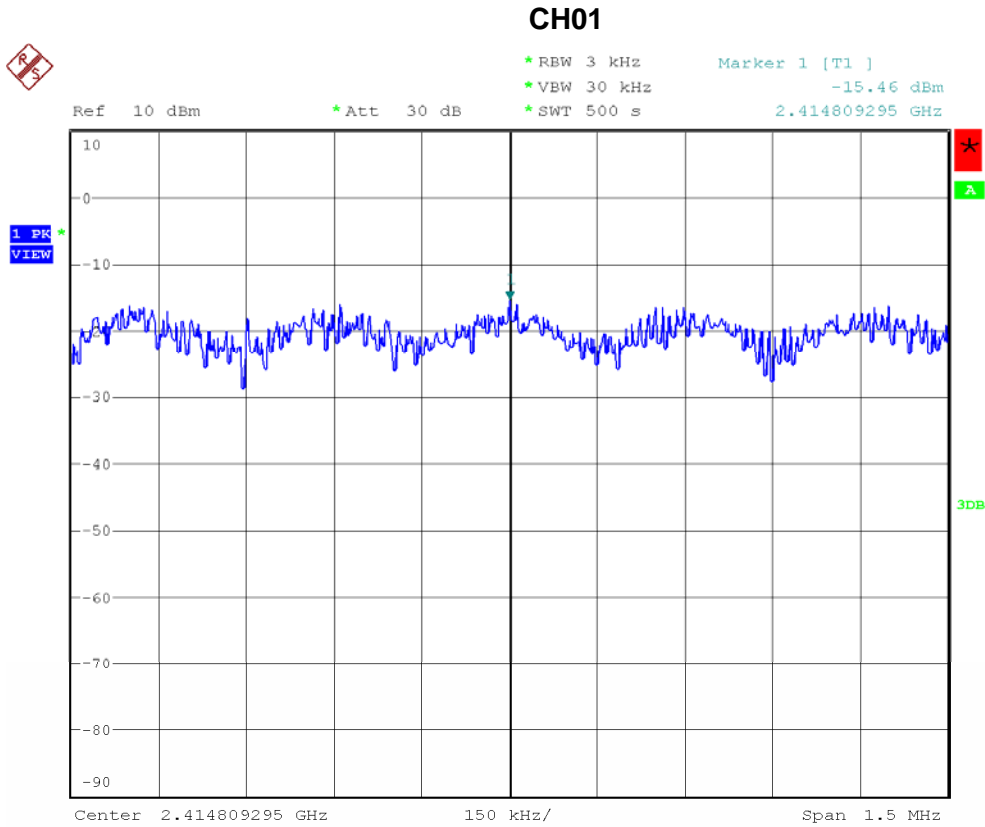
Center 2.461222756 GHz      150 kHz/      Span 1.5 MHz

Date: 1.SEP.2009 10:28:37



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

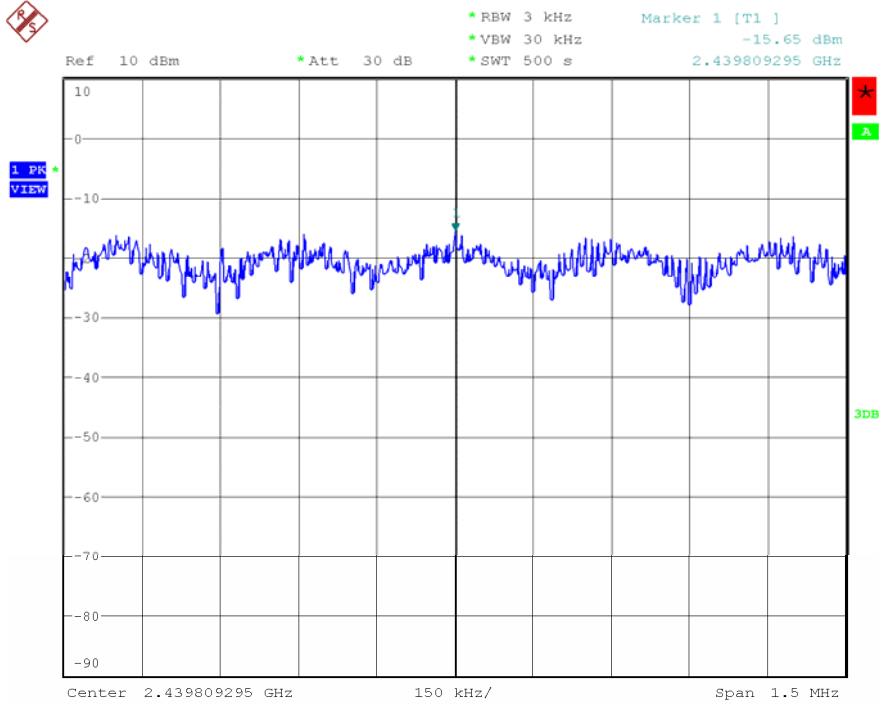
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-15.46	8
CH06	2437	-15.65	8
CH11	2462	-16.49	8



Date: 1.SEP.2009 15:12:22

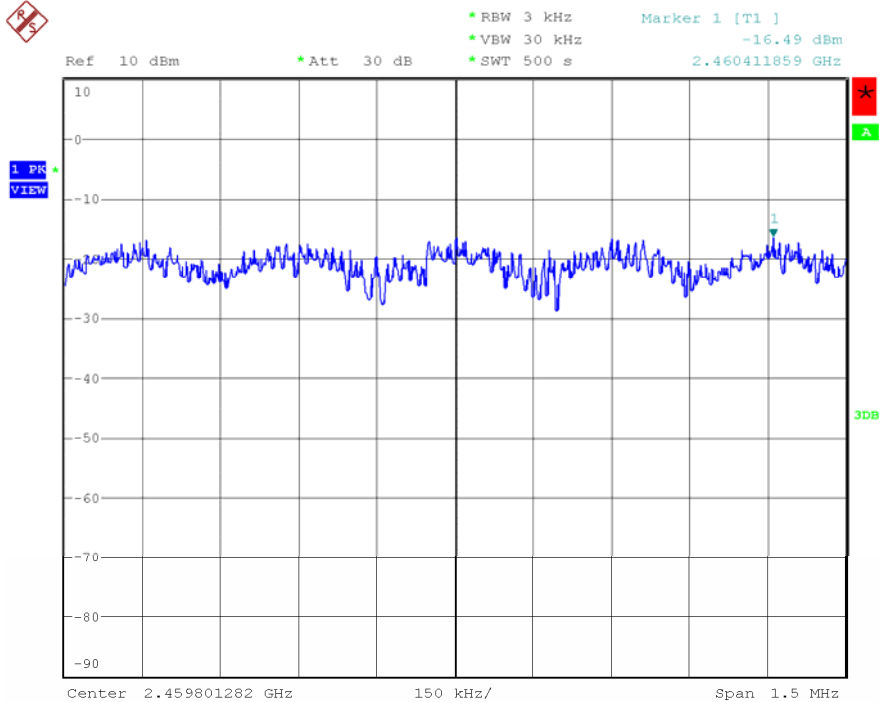


### CH06



Date: 1.SEP.2009 15:13:55

### CH11

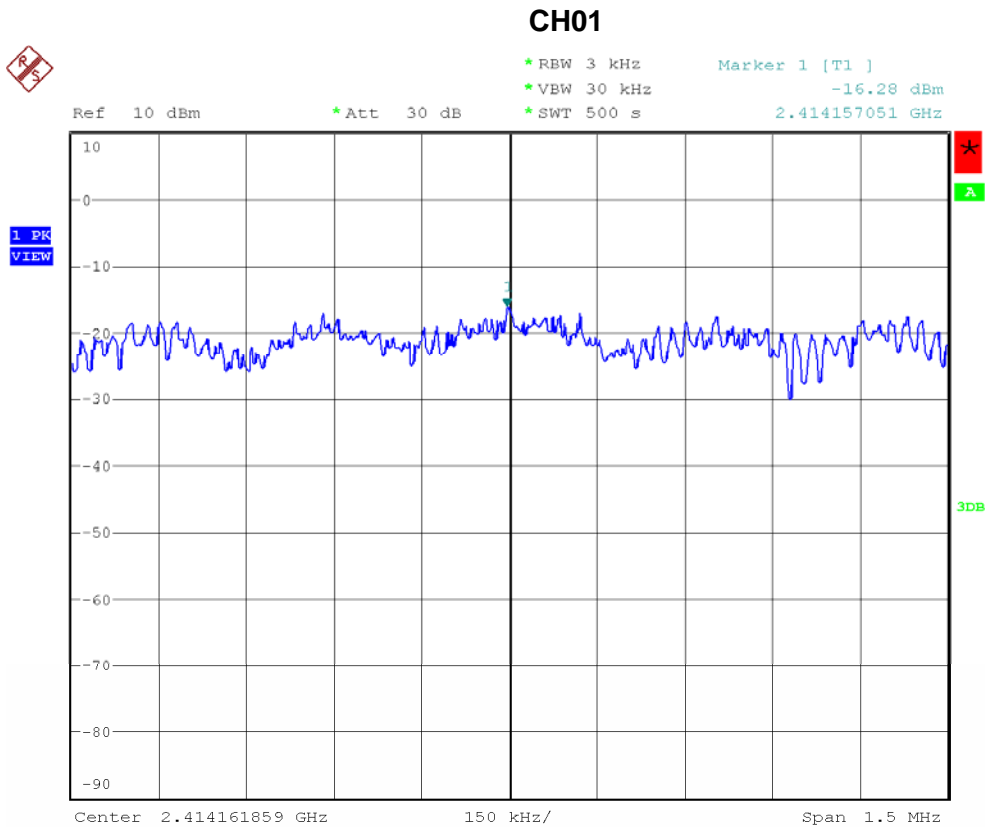


Date: 1.SEP.2009 15:21:19



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11(Port. 0)		

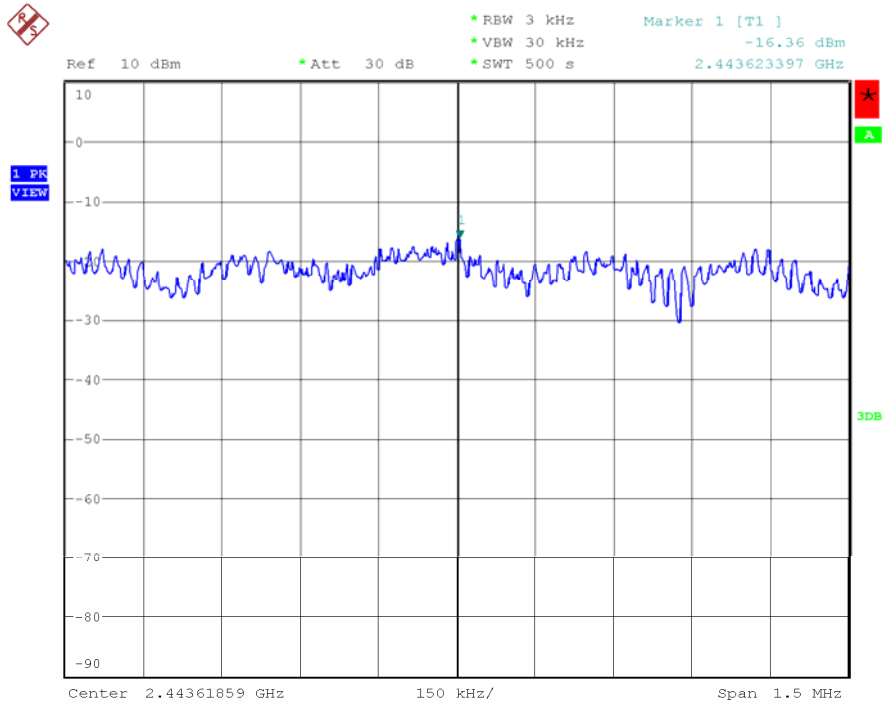
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-16.28	8
CH06	2437	-16.36	8
CH11	2462	-17.33	8



Date: 1.SEP.2009 16:00:22

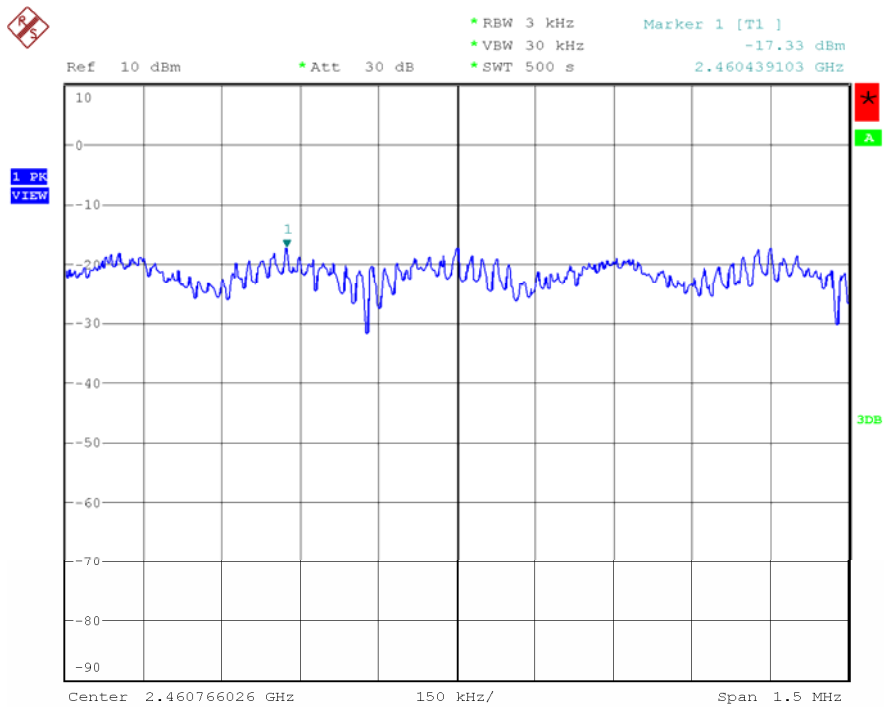


### CH06



Date: 1.SEP.2009 16:04:05

### CH11



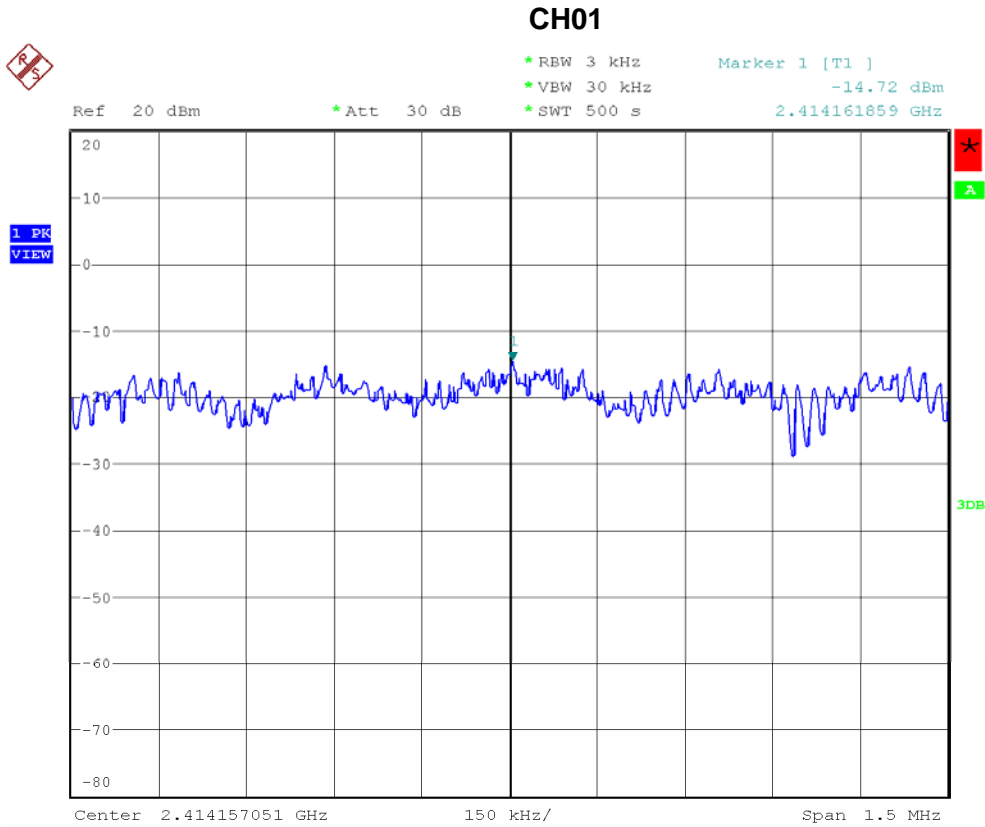
Date: 1.SEP.2009 16:13:57





EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11(Port. 1)		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-14.72	8
CH06	2437	-15.38	8
CH11	2462	-15.61	8



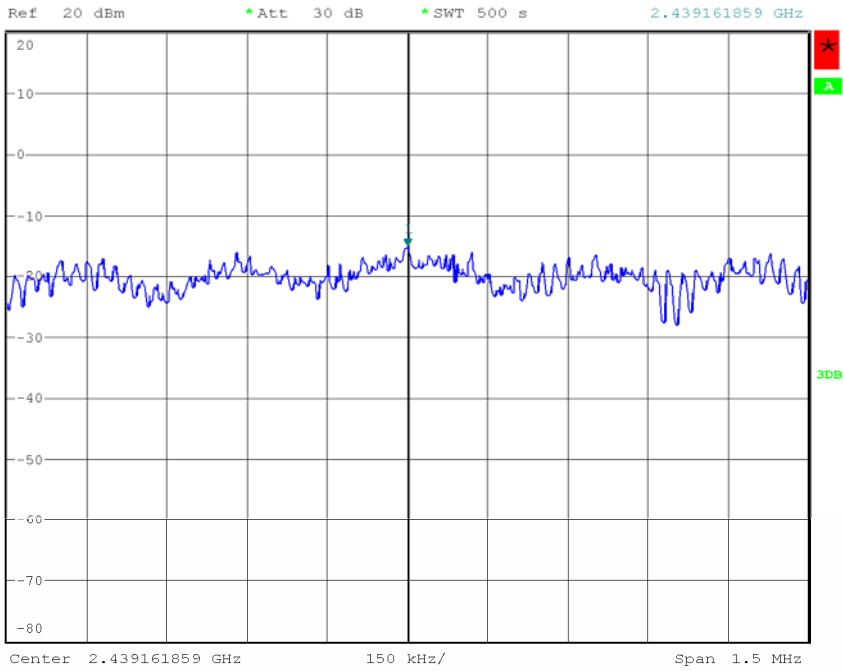
Date: 7.SEP.2009 14:06:53



### CH06



\* RBW 3 kHz      Marker 1 [T1 ]  
\* VBW 30 kHz      -15.38 dBm  
\* SWT 500 s      2.439161859 GHz

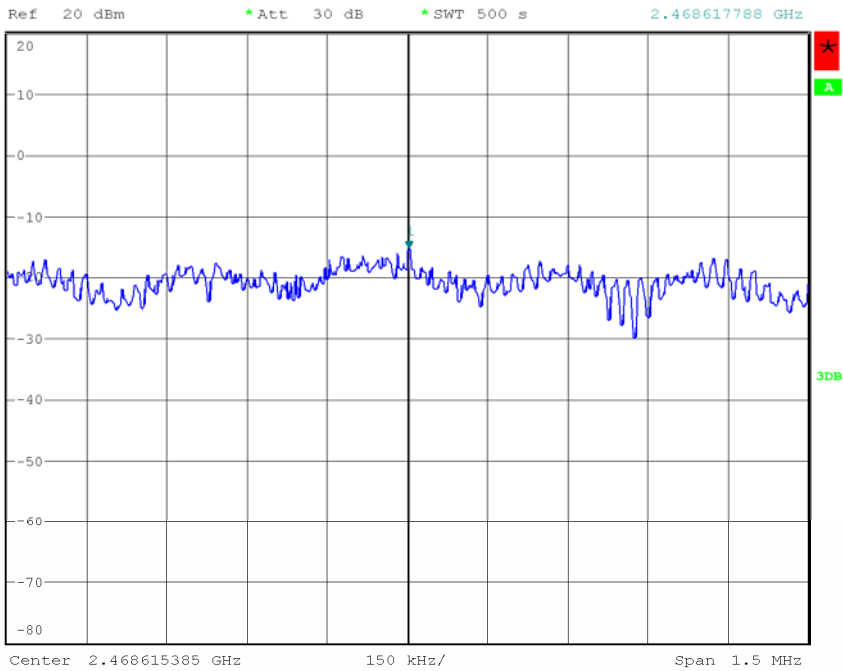


Date: 7.SEP.2009 14:08:19

### CH11



\* RBW 3 kHz      Marker 1 [T1 ]  
\* VBW 30 kHz      -15.61 dBm  
\* SWT 500 s      2.468617788 GHz

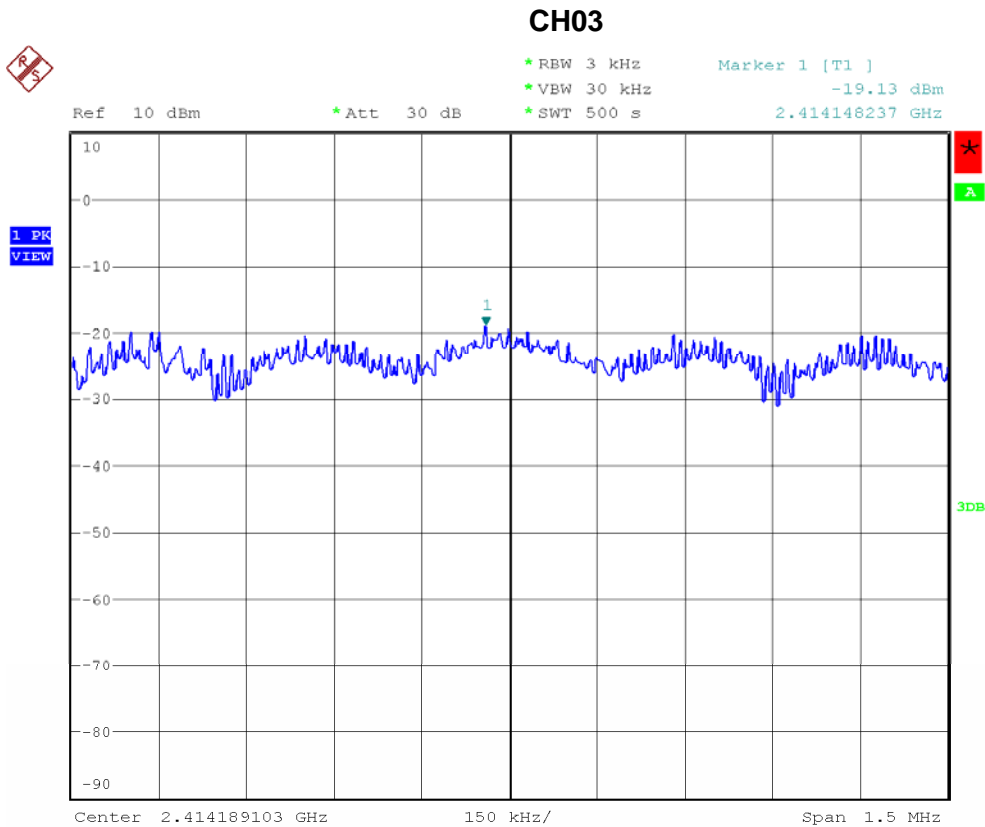


Date: 7.SEP.2009 14:13:32



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09(Port. 0)		

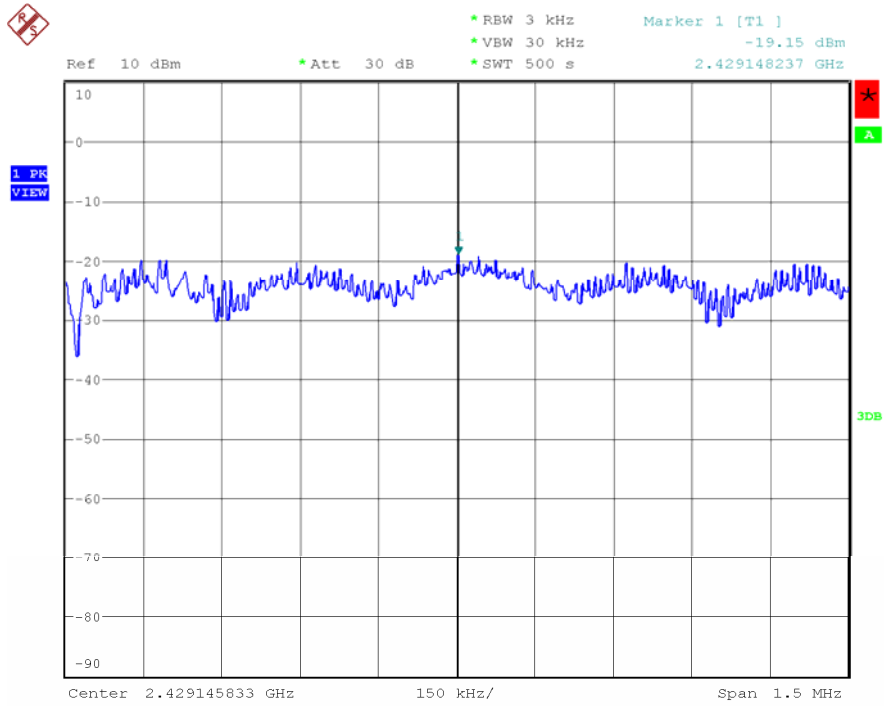
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-19.13	8
CH06	2437	-19.15	8
CH09	2452	-18.82	8



Date: 1.SEP.2009 16:39:12

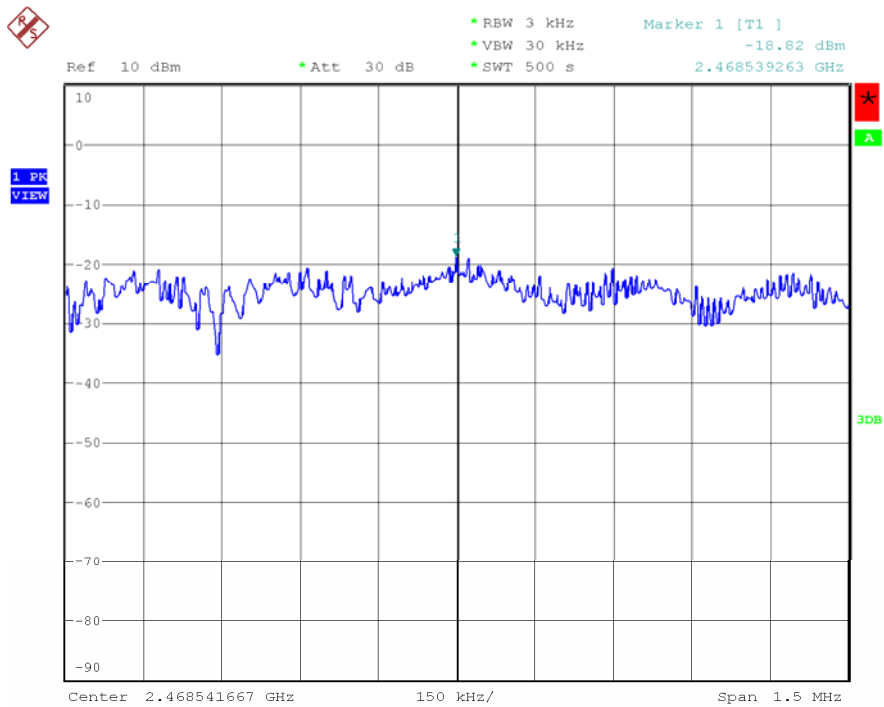


### CH06



Date: 1.SEP.2009 16:41:06

### CH09

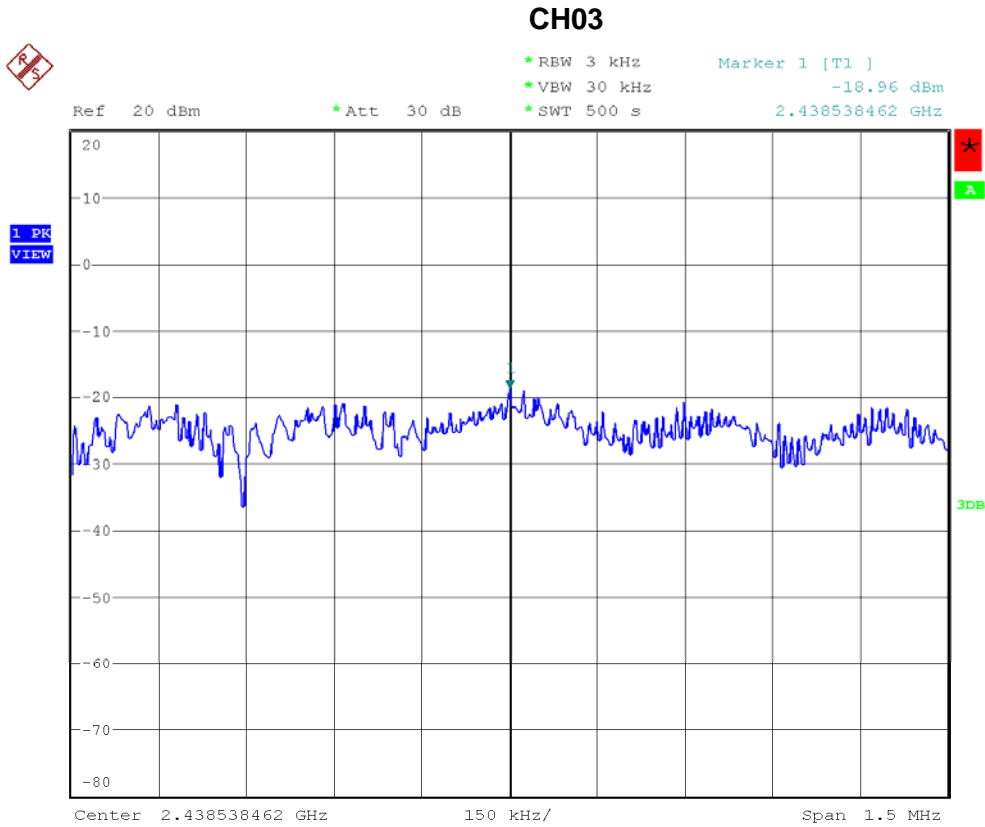


Date: 1.SEP.2009 16:48:48



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09(Port. 1)		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-18.96	8
CH06	2437	-17.41	8
CH09	2452	-18.03	8



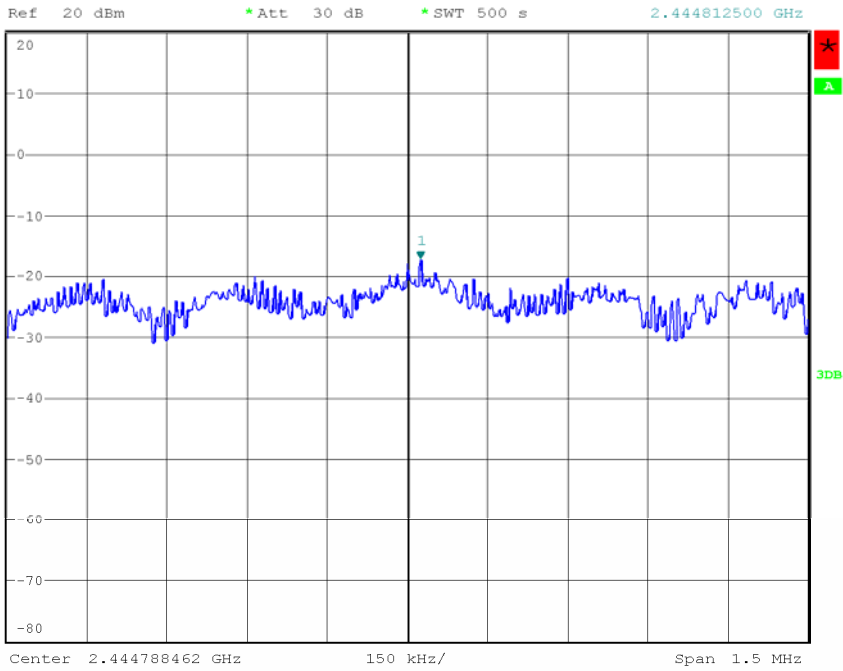
Date: 7.SEP.2009 14:20:20



### CH06



\* RBW 3 kHz      Marker 1 [T1 ]  
\* VBW 30 kHz      -17.41 dBm  
\* SWT 500 s      2.444812500 GHz

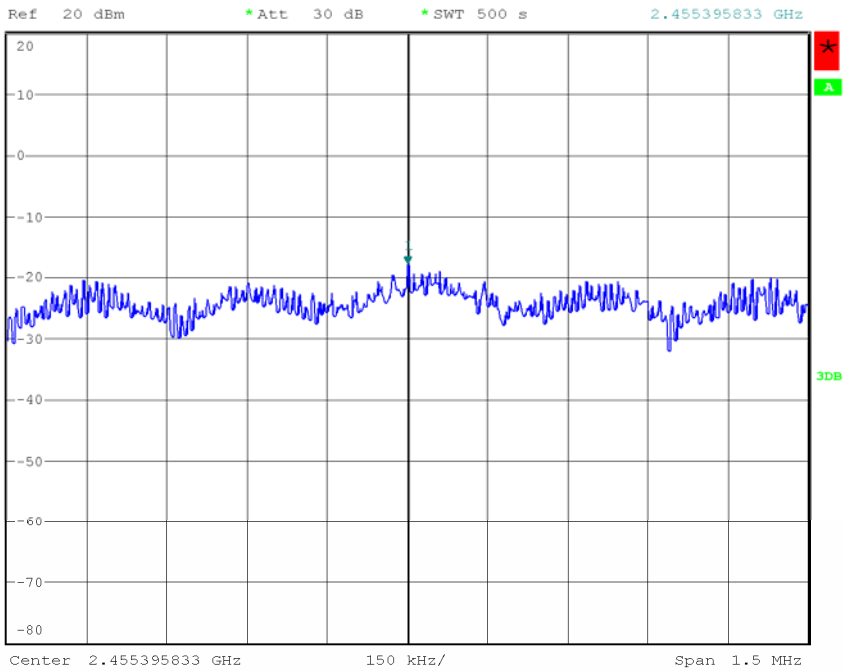


Date: 7.SEP.2009 14:21:51

### CH09



\* RBW 3 kHz      Marker 1 [T1 ]  
\* VBW 30 kHz      -18.03 dBm  
\* SWT 500 s      2.455395833 GHz



Date: 7.SEP.2009 14:31:09



**9. RF EXPOSURE TEST**

**9.1 APPLIED PROCEDURES / LIMIT**

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; \*Plane-wave equivalent power density

**9.1.1 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 10, 2010
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2010

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

**9.1.2 MPE CALCULATION METHOD**

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

**E** = Electric field (V/m)

**P** = Peak RF output power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained



**9.1.3 DEVIATION FROM STANDARD**

No deviation.

**9.1.4 TEST SETUP**



**9.1.5 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.





**9.1.6 TEST RESULTS**

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
<b>2412</b>	<b>3.00</b>	<b>1.9953</b>	<b>15.48</b>	<b>35.3183</b>	<b>0.014027</b>	<b>1</b>
2437	3.00	1.9953	14.67	29.3089	0.011640	1
2462	3.00	1.9953	14.57	28.6418	0.011375	1

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
2412	3.00	1.9953	13.57	22.7510	0.009035	1
2437	3.00	1.9953	14.23	26.4850	0.010518	1
<b>2462</b>	<b>3.00</b>	<b>1.9953</b>	<b>14.45</b>	<b>27.8612</b>	<b>0.011065</b>	<b>1</b>



## Neutron Engineering Inc.

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n HT20 Single TX Port. 0		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
2412	3.00	1.9953	12.35	17.1791	0.006823	1
2437	3.00	1.9953	14.11	27.6058	0.010964	1
2462	3.00	1.9953	14.48	28.0543	0.011142	1

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n HT20 Single TX Port. 1		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
2412	3.00	1.9953	12.21	16.6341	0.006606	1
2437	3.00	1.9953	14.03	25.2930	0.010045	1
2462	3.00	1.9953	14.38	27.4157	0.010888	1



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n HT20 Dual TX (Port. 0 + Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
2412	3.00	1.9953	15.29	33.8065	0.013426	1
2437	3.00	1.9953	17.08	51.0505	0.020275	1
<b>2462</b>	<b>3.00</b>	<b>1.9953</b>	<b>17.44</b>	<b>55.4626</b>	<b>0.022027</b>	<b>1</b>

Remark :

- (1) The MIMO test requirement, MPE shall measure by using the total sum power of each transmitter chain.



## Neutron Engineering Inc.

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n HT40 Single TX Port. 0		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
2422	3.00	1.9953	12.57	18.0717	0.007177	1
2437	3.00	1.9953	14.05	25.4097	0.010091	1
2452	3.00	1.9953	14.43	27.7332	0.011014	1

EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n HT40 Single TX Port. 1		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
2422	3.00	1.9953	12.49	17.7419	0.007046	1
2437	3.00	1.9953	13.93	24.7172	0.009816	1
2452	3.00	1.9953	14.21	26.3633	0.010470	1



EUT :	802.11n High-speed Wireless Broadband Router	Model Name :	NW725 PLUS
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n HT40 Dual TX (Port. 0 + Port. 1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )
2422	3.00	1.9953	15.54	35.8096	0.014222	1
2437	3.00	1.9953	17.00	50.1187	0.019904	1
<b>2452</b>	<b>3.00</b>	<b>1.9953</b>	<b>17.33</b>	<b>54.0754</b>	<b>0.021476</b>	<b>1</b>

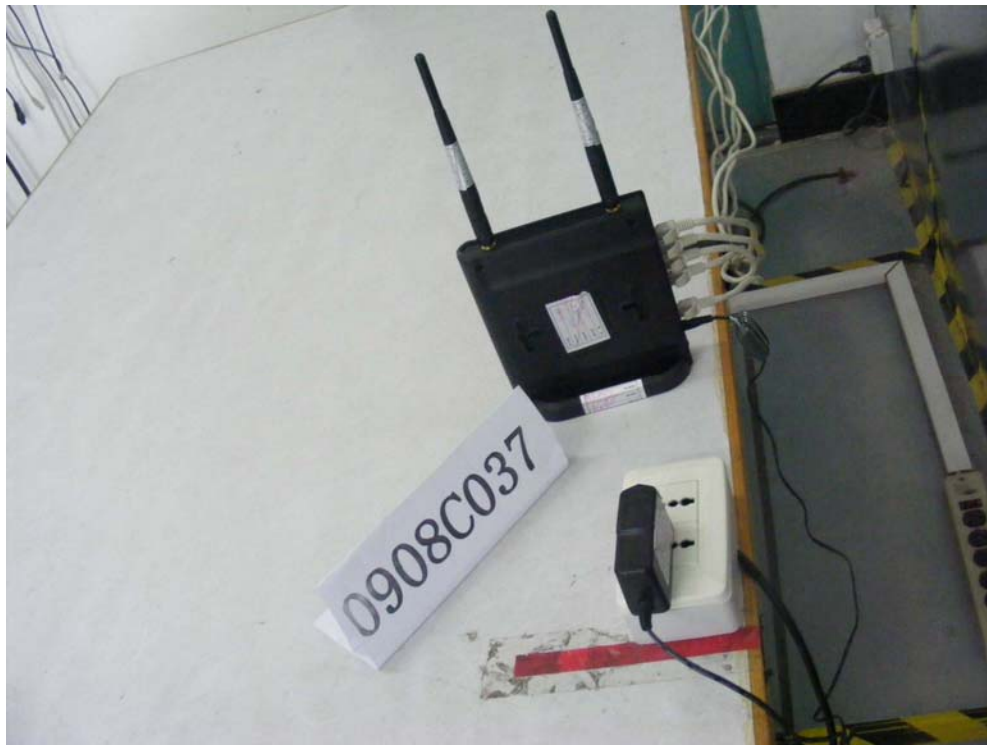
Remark :

- (1) The MIMO test requirement, MPE shall measure by using the total sum power of each transmitter chain.



**10. EUT TEST PHOTO**

**Conducted Measurement Photos**





Radiated Measurement Photos

