FCC Radio Test Report

FCC ID: NDD9564250909

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

Issued Date	:	May 25, 2010
Project No.	:	0907C089
Equipment	:	Wireless N Broadband Router
Model Name	:	BR-6425N; GR-425N; BR-6424N
Applicant	:	EDIMAX TECHNOLOGY CO., LTD.
Address	:	No. 3, Wu Chuan 3rd Road, Wu-Ku Industrial Park. Taipei Hsien, Taiwan

Tested by:
Neutron Engineering Inc. EMC Laboratory
Date of Test:
Sep. 28, 2009 ~ Oct. 16, 2009

Testing Engineer : Rush Kao
(Rush Kao)

Technical Manager : Jeff Yang
(Jeff Yang)

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NVLAP Lab Code: 200145-0 ilac-MRA TAF Testing Laboratory 0659

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

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

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1. CERTIFICATION

Equipment : Wireless N Broadband Router
Brand Name : EDIMAX
Model Name : BR-6425N; GR-425N; BR-6424N
Applicant : EDIMAX TECHNOLOGY CO., LTD.
Date of Test : Sep. 28, 2009 ~ Oct. 16, 2009
Standards : FCC Part15, Subpart C / ANCI C63.4 : 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0907C089) 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-1-0907C089.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS01/CB08 (FCC Test Firm Number: 95335)**

C01/OS01 - at the location of No.132-1, Lane 329, Sec. 2, Palian Road, Shijr City, Taipei, Taiwan.
CB08 - at the location of 1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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)
C01	ANSI	150 KHz ~ 30MHz	1.94

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U，(dB)
OS-01	ANSI	30MHz ~ 200MHz	V	2.86
		30MHz ~ 200MHz	H	2.56
		200MHz ~ 1,000MHz	V	2.88
		200MHz ~ 1,000MHz	H	2.98
CB08	ANSI	30MHz ~ 200MHz	V	3.22
		30MHz ~ 200MHz	H	3.35
		200MHz ~ 1,000MHz	V	3.24
		200MHz ~ 1,000MHz	H	3.11
		1000MHz ~ 1800MHz	V	4.05
		1000MHz ~ 18000MHz	H	3.97
		18000MHz ~ 40000MHz	V	4.04
		18000MHz ~ 40000MHz	H	4.01

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>Wireless N Broadband Router</td></tr>
<tr><td>Brand Name</td><td>EDIMAX</td></tr>
<tr><td>Model Name</td><td>BR-6425N; GR-425N; BR-6424N</td></tr>
<tr><td>OEM Brand/Model Name</td><td>Connect Gear/ WR-460N
Hama/ 00053133
HAWKING/ HWRN2
IC ICTRACOM/ 524490
Neowiki/ RG-5200A, RG-5400A
Planet/ WNRT-625 v2</td></tr>
<tr><td>Model Difference</td><td>All the above models were based on identical electrical circuit except the difference of model designation.
Model BR-6425N was used for final testing and collecting test data included in this report.
These Models have four different applies to equipment with integral antenna or dedicated antenna as following:
Type 1: Ant Fixed x 3
Type 2: Ant Fixed x 2
Type 3: Ant Removable x 2
Type 4: PCB Antenna x 2; please refer to the Note 3.
All the above antenna designations were tested, and the Type 1: Ant Fixed x 3 was found to be the worst cases during the pr-scanning test. This type of the worst case was used for final testing and collecting test data included in this report.</td></tr>
<tr><td>Product Description</td><td>The EUT is an Wireless N Broadband Router.
<table>
<tr><td>Operation Frequency:</td><td>2412~2462 MHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11b:CCK, DQPSK, DBPSK
802.11g:OFDM
802.11n:OFDM(2 TX & 2 RX)</td></tr>
<tr><td>Bit Rate of Transmitter:</td><td>802.11b:
11/5.5/2/1 Mbps
802.11g:
54/48/36/24/18/12/9/6 Mbps
802.11n up to +300 Mbps</td></tr>
<tr><td>Number Of Channel:</td><td>Please see Note 2.</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Antenna Gain(Peak):</td><td>Please see Note 3.</td></tr>
<tr><td>Peak Output Power(Max):</td><td>802.11b:14.45 dBm (Max.)
802.11g:24.74 dBm (Max.)
802.11n(20MHz):24.90 dBm (Max.)
802.11n(40MHz):24.84 dBm (Max.)</td></tr>
</table>
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.</td></tr>
<tr><td>Power Source</td><td>DC Voltage supplied from AC/DC adapter.</td></tr>
<tr><td>Power Rating</td><td>I/P: AC 100-240V~0.5A, 50-60Hz / O/P: DC 12V, 1.0A</td></tr>
<tr><td>Products Covered</td><td>AC/DC adapter: PSA12A-120</td></tr>
</table>

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)
01	**2412**	05	2432	**09**	**2452**
02	2417	**06**	**2437**	10	2457
03	**2422**	07	2442	**11**	**2462**
04	2427	08	2447		

3. Table for Filed Antenna:

Dipole Antenna: 3(Fixed)

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ARISTOTLE	RFA-02-3-C52M3-B70	Dipole	N/A	3.00
2	ARISTOTLE	RFA-02-3-C52M3-B70	Dipole	N/A	3.00
3	ARISTOTLE	RFA-02-3-C52M3-B70	Dipole	N/A	3.00

Dipole Antenna: 2(Fixed)

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ARISTOTLE	RFA-02-3-C52M3-B70	Dipole	N/A	3.00
2	ARISTOTLE	RFA-02-3-C52M3-B70	Dipole	N/A	3.00

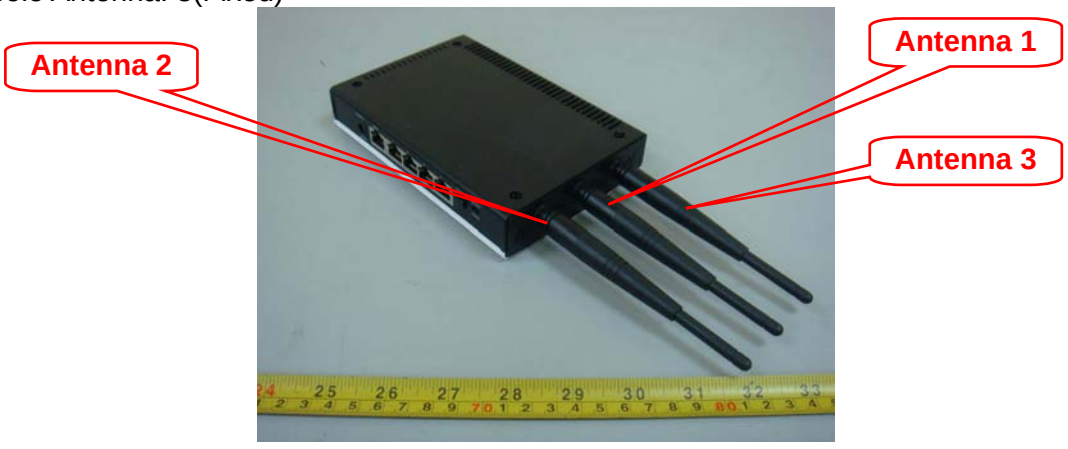
Dipole Antenna: 2(Removable)

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ARISTOTLE	RFA-02-3-C52M3-B70	Dipole	Reverse-SMA	3.00
2	ARISTOTLE	RFA-02-3-C52M3-B70	Dipole	Reverse-SMA	3.00

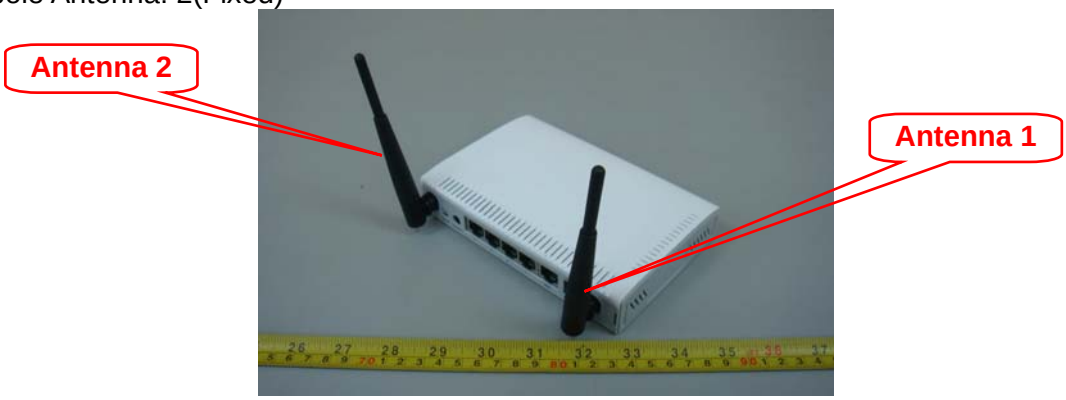
PCB Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ARISTOTLE	RFA-02-P71-70-50	PIFA	N/A	3.58
2	ARISTOTLE	RFA-02-P50-70B-50	PIFA	N/A	5.00

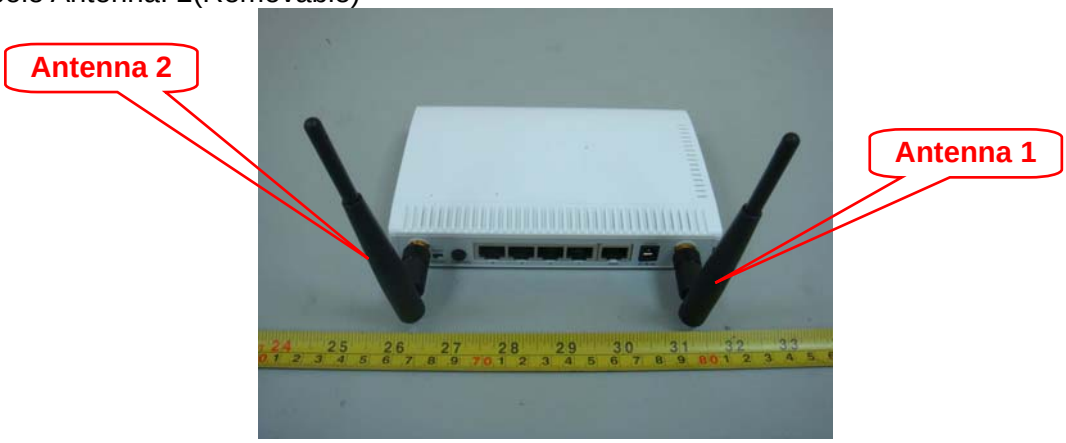
Dipole Antenna: 3(Fixed)



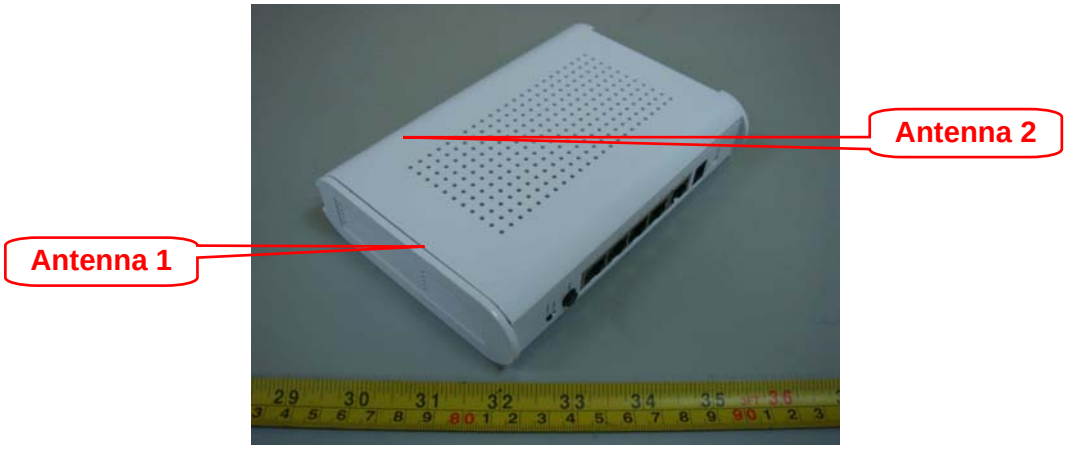
Dipole Antenna: 2(Fixed)



Dipole Antenna: 2(Removable)



PCB Antenna:



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
Mode 4	802.11n/40M/CH03, CH06, CH09

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
Mode 4	802.11n/40M/CH03, CH06, CH09

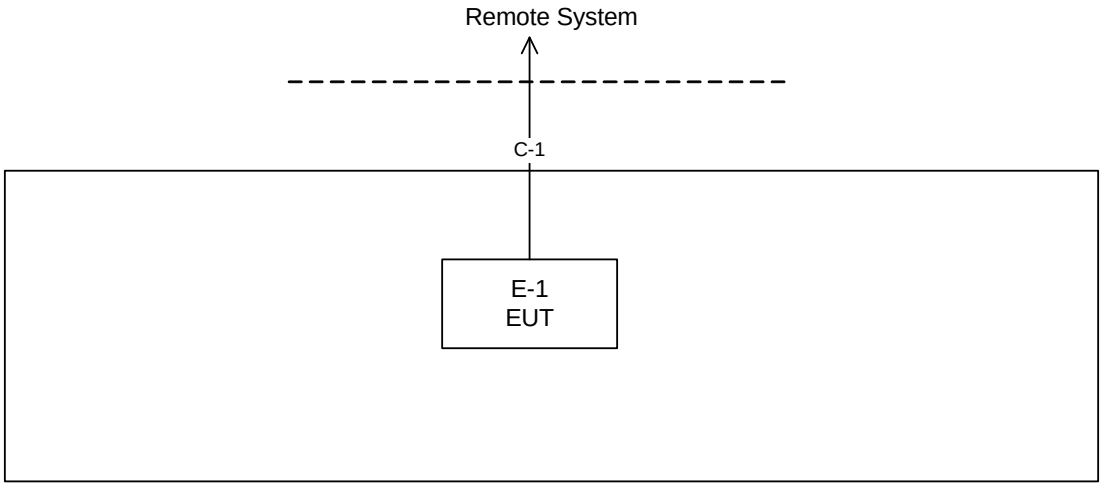
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software Version	QA RT3052 V0.0.0.5		
Frequency (MHz)	2412 MHz	2442 MHz	2462 MHz
IEEE 802.11b DSSS	5	6	8
IEEE 802.11g OFDM	19	1A	1B

Test software Version	QA RT3052 V0.0.0.5		
Frequency (MHz)	2412 MHz	2442 MHz	2462 MHz
IEEE 802.11n (20MHz)	0E	15	18
Frequency (MHz)	2422 MHz	2442 MHz	2452 MHz
IEEE 802.11n (40MHz)	10	16	13

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF RADIATED EMISSION TESTED



C-1 RJ-45 Cable

3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Wireless N Broadband Router	EDIMAX	BR-6425N	NDD9564250909	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10.0M	

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.
(3) ” ※ ” denotes the support equipment by applicant.

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	LISN	EMCO	3816/2	00042991	Jan. 20, 2011
2	Test Cable	N/A	SR03_C_01 &02	N/A	Aug. 19, 2010
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Dec. 27, 2010
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 17, 2010

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

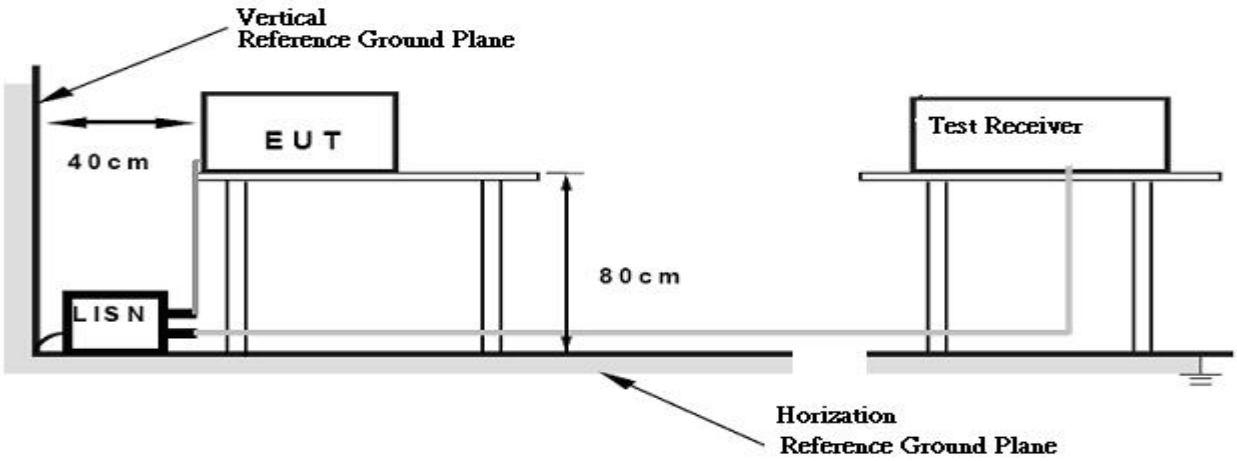
4.1.3 TEST PROCEDURE

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



4.1.6 EUT OPERATING CONDITIONS

The EUT 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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity：	43%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11b/CH06		

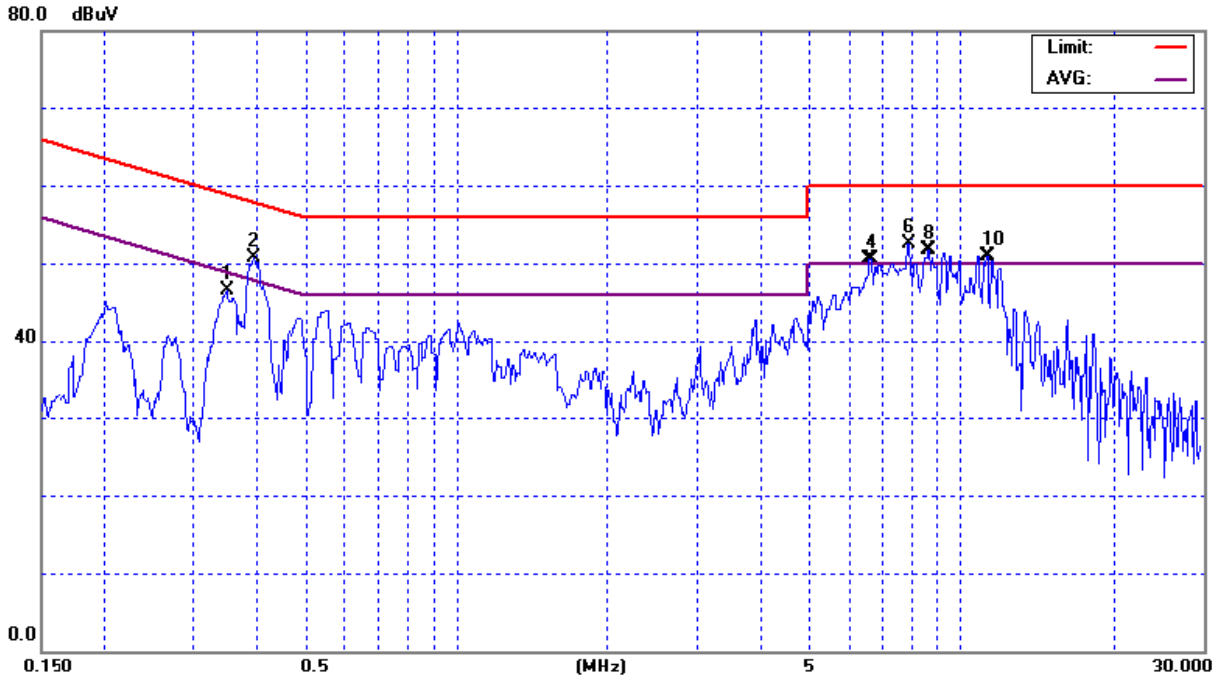
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.35	Line	46.59	*	58.96	48.96	-12.37	(QP)
0.40	**Line**	**50.71**	**36.43**	**57.96**	**47.96**	**-7.25**	**(QP)**
6.60	Line	50.56	30.60	60.00	50.00	-9.44	(QP)
7.90	Line	52.47	32.58	60.00	50.00	-7.53	(QP)
8.65	Line	51.78	32.82	60.00	50.00	-8.22	(QP)
11.30	Line	50.98	35.32	60.00	50.00	-9.02	(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 :	Wireless N Broadband Router	Model Name :	BR-6425N
Temperature :	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

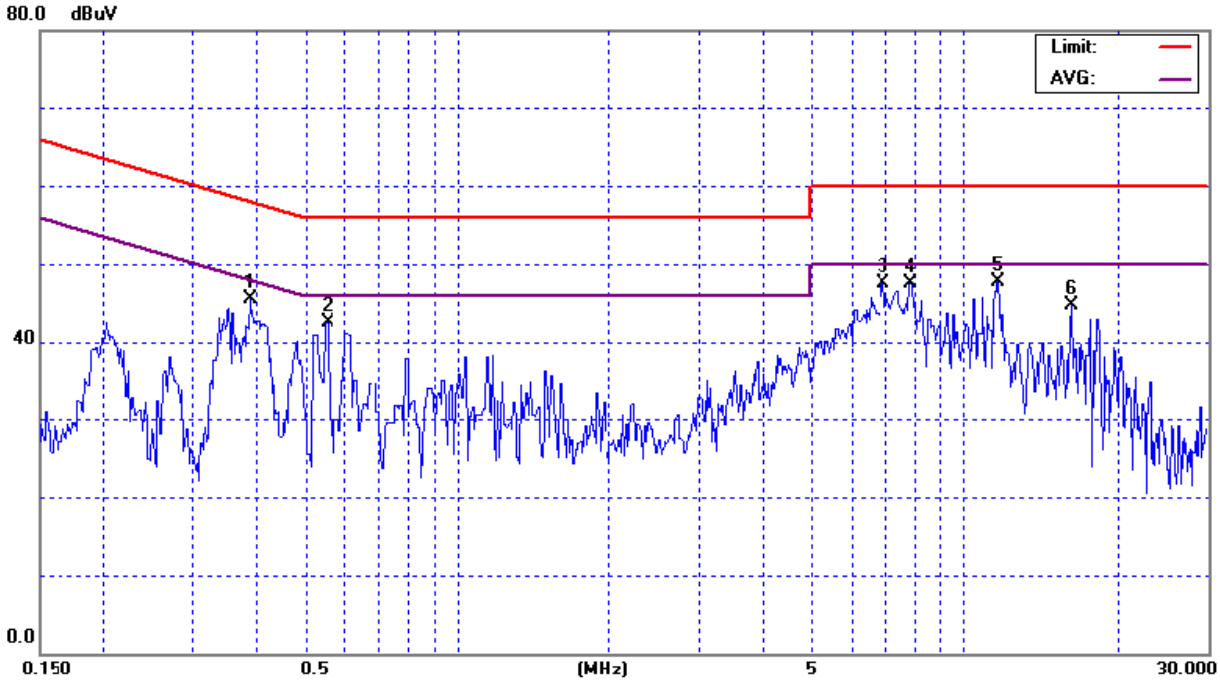
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.39	Neutral	45.46	*	58.09	48.09	-12.63	(QP)
0.55	Neutral	42.41	*	56.00	46.00	-13.59	(QP)
6.90	Neutral	47.59	*	60.00	50.00	-12.41	(QP)
7.85	Neutral	47.57	*	60.00	50.00	-12.43	(QP)
11.65	**Neutral**	**47.66**	*****	**60.00**	**50.00**	**-12.34**	**(QP)**
16.25	Neutral	44.76	*	60.00	50.00	-15.24	(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 on15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

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 15B.

(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	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 10, 2010
2	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-546	Jun. 04, 2010
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 20, 2010
4	Microflex Cable	N/A	N/A	1m	May. 20, 2010
5	Microflex Cable	AISI	S104-SMAP-1	10m	Aug. 23, 2010
6	Microflex Cable	N/A	N/A	3m	Aug. 23, 2010
7	Test Cable	N/A	LMR-400	966_12m	Jun. 18, 2010
8	Test Cable	N/A	LMR-400	966_3m	Jun. 18, 2010
9	Pre-Amplifier	EMC	EMC-330	980001	Jun. 04, 2010
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 17, 2010

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

4.2.3 TEST PROCEDURE

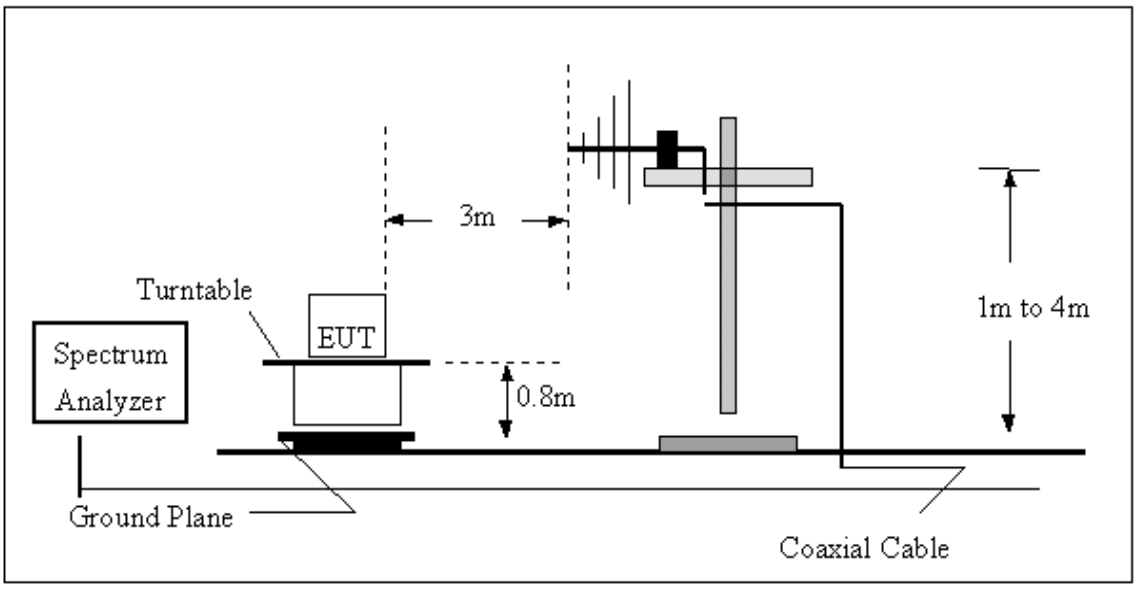
a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was 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

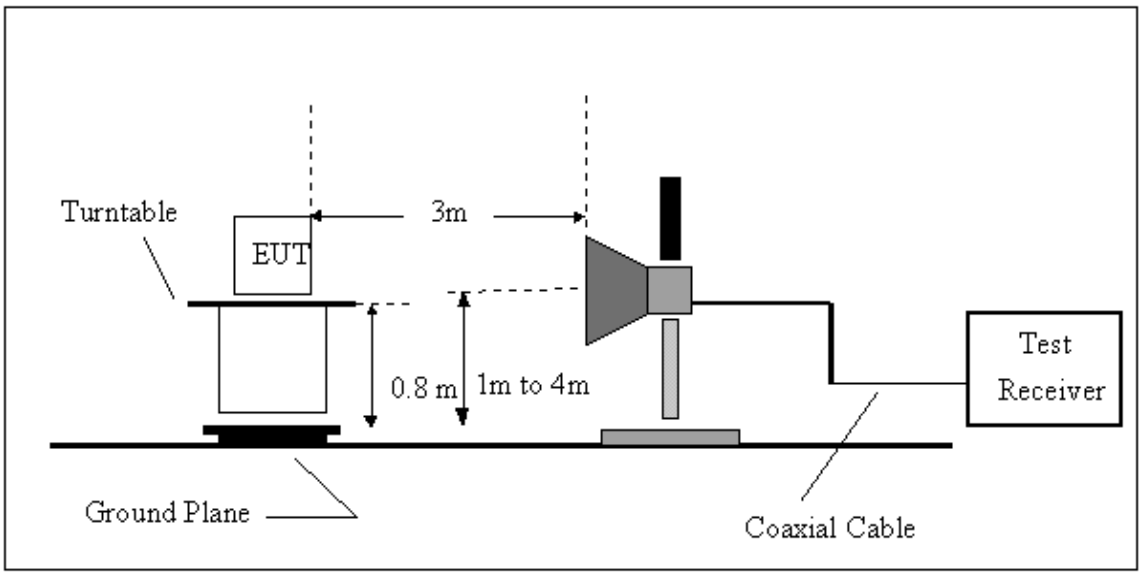
No deviation

4.2.5 TEST SETUP

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



(B) Radiated Emission Test Set-UP Frequency Over 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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity：	42%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11b/CH06		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
43.58	**V**	**56.67**	**-20.42**	**36.25**	**40.00**	**- 3.75**	
53.28	V	56.19	-20.99	35.20	40.00	- 4.80	
127.00	V	54.49	-21.45	33.04	43.50	- 10.46	
255.04	V	52.49	-21.87	30.62	46.00	- 15.38	
383.08	V	52.48	-18.72	33.76	46.00	- 12.24	
472.32	V	44.81	-16.62	28.19	46.00	- 17.81	

Remark：

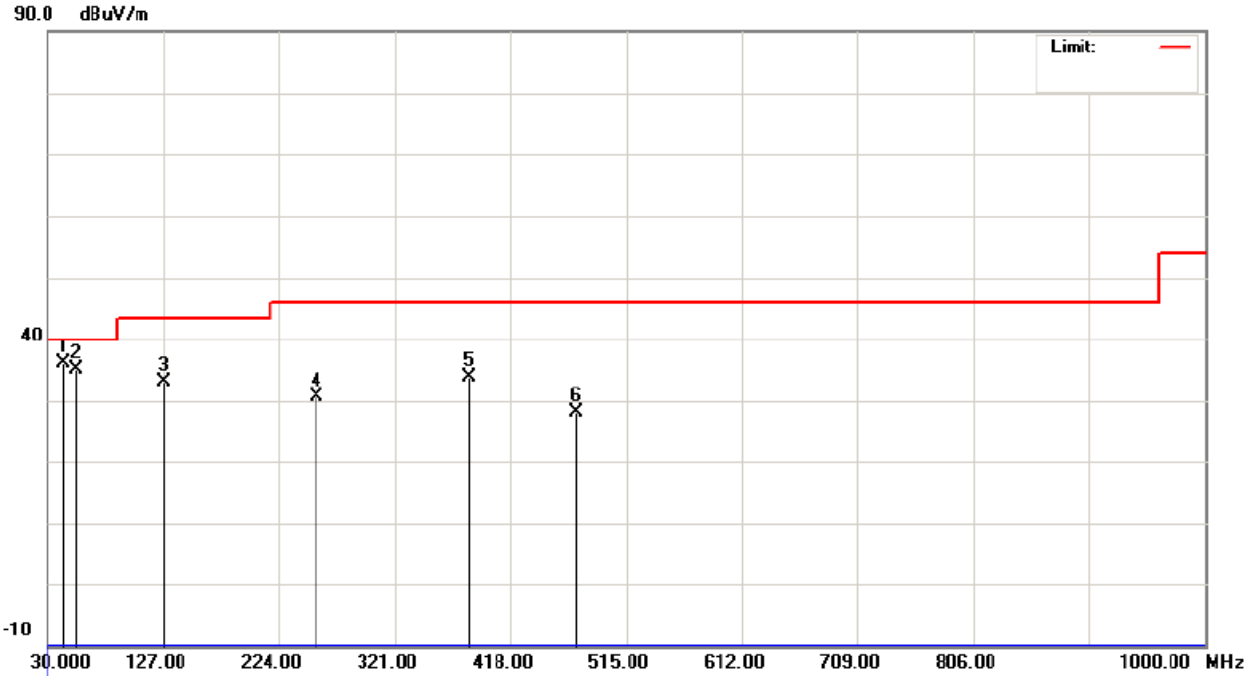
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity：	42%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11b/CH06		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
127.00	**H**	**58.26**	**-21.45**	**36.81**	**43.50**	**- 6.69**	
255.04	H	55.95	-21.87	34.08	46.00	- 11.92	
383.08	H	56.37	-18.72	37.65	46.00	- 8.35	
468.44	H	46.53	-16.66	29.87	46.00	- 16.13	
513.06	H	50.95	-16.02	34.93	46.00	- 11.07	
897.18	H	44.88	-10.11	34.77	46.00	- 11.23	

Remark：

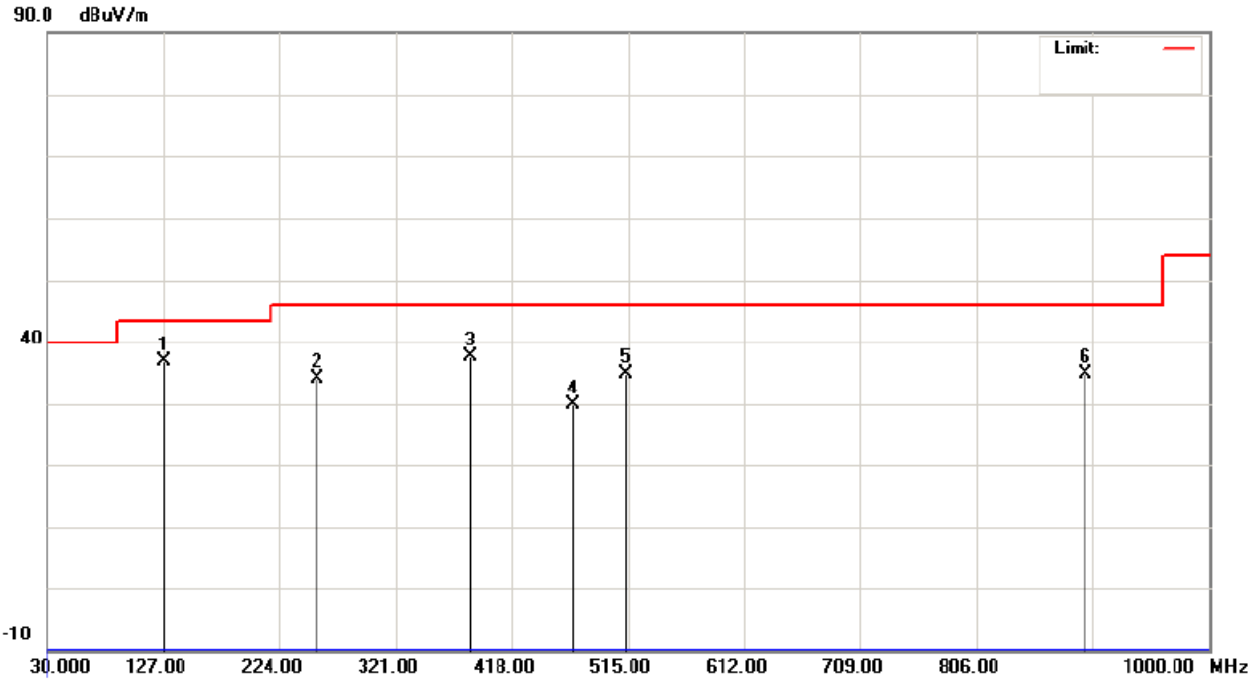
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2371.00	V	26.63	17.36	31.85	58.48	49.21	74.00	54.00	X/H
2409.00	V	69.76	67.30	32.00	101.76	99.30			X/F
4823.99	V	52.23	49.58	3.75	55.98	53.33	74.00	54.00	X/H
7236.04	V	44.24	31.45	9.02	53.26	40.47	74.00	54.00	X/H
9648.03	V	44.54	31.94	11.96	56.50	43.90	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 。

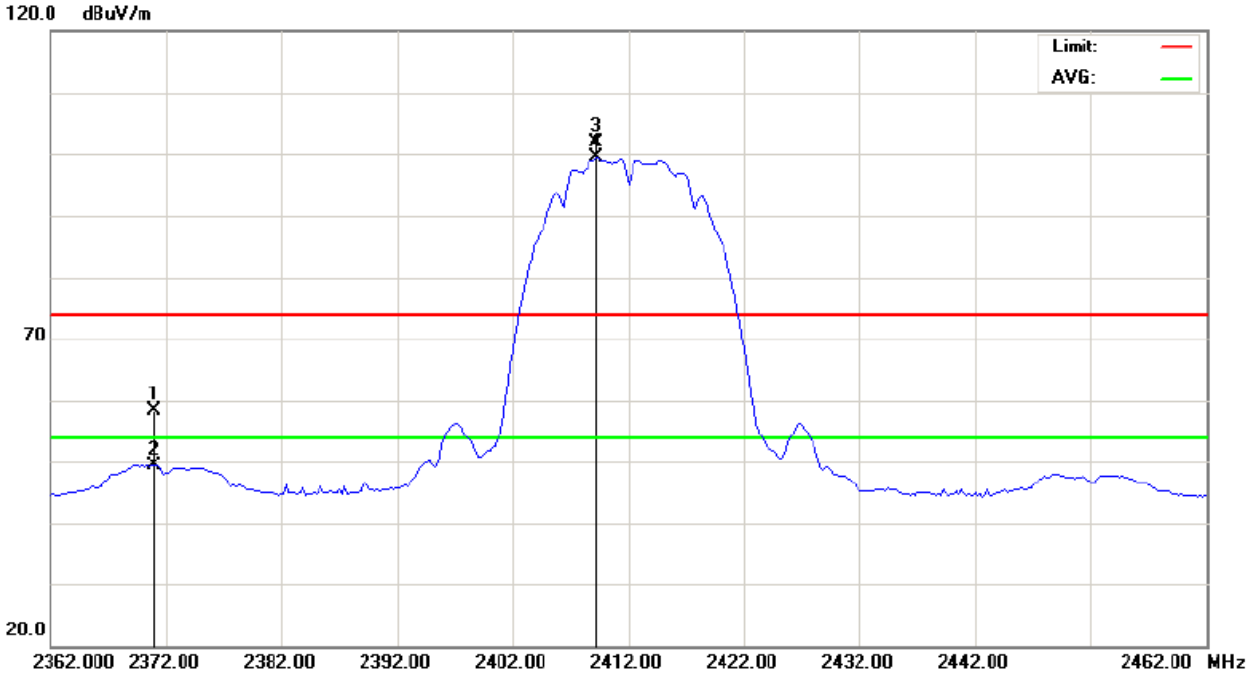
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

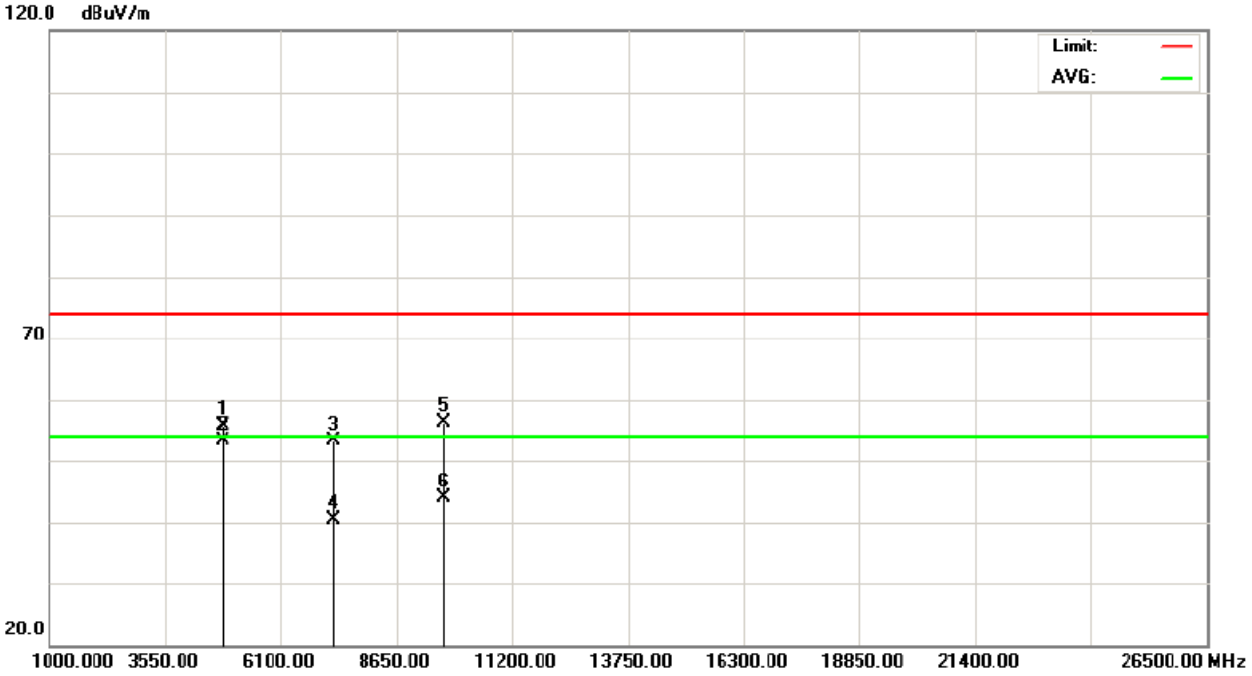
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2370.40	H	23.80	14.20	31.85	55.65	46.05	74.00	54.00	X/H
2409.40	H	63.31	60.15	32.00	95.31	92.15			X/F
4824.01	H	48.71	44.22	3.75	52.46	47.97	74.00	54.00	X/H
7236.08	H	43.72	31.41	9.02	52.74	40.43	74.00	54.00	X/H
9647.98	H	44.66	31.96	11.96	56.62	43.92	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 。

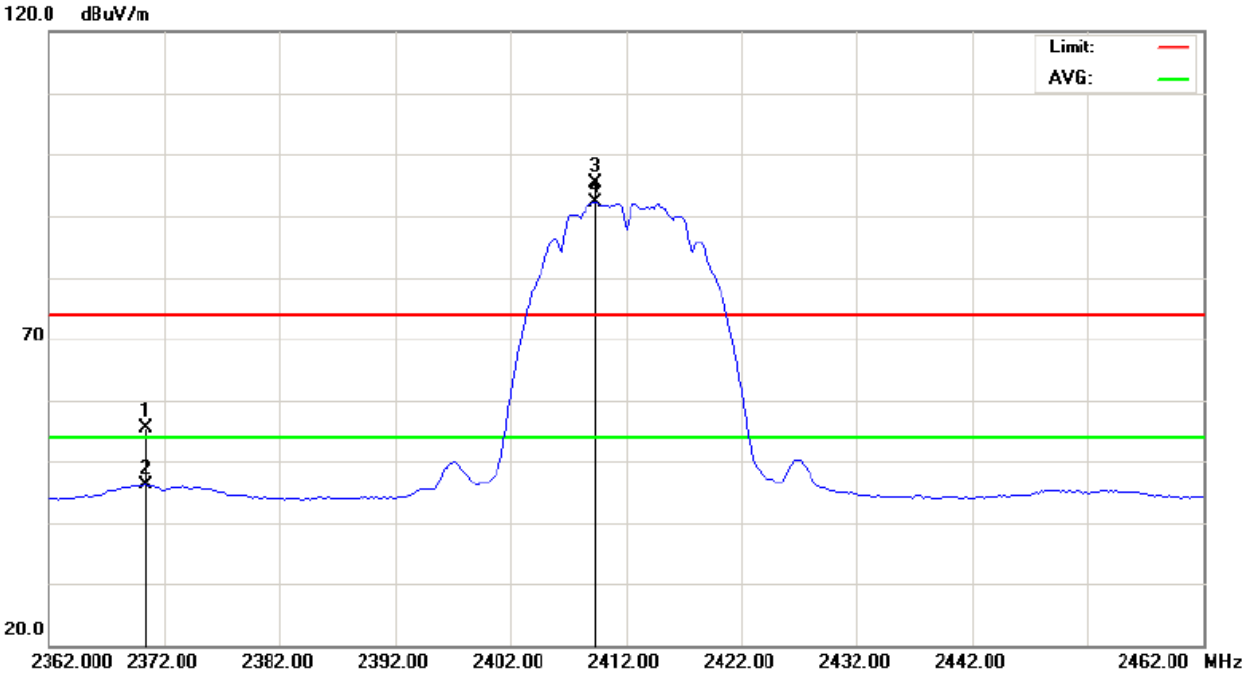
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

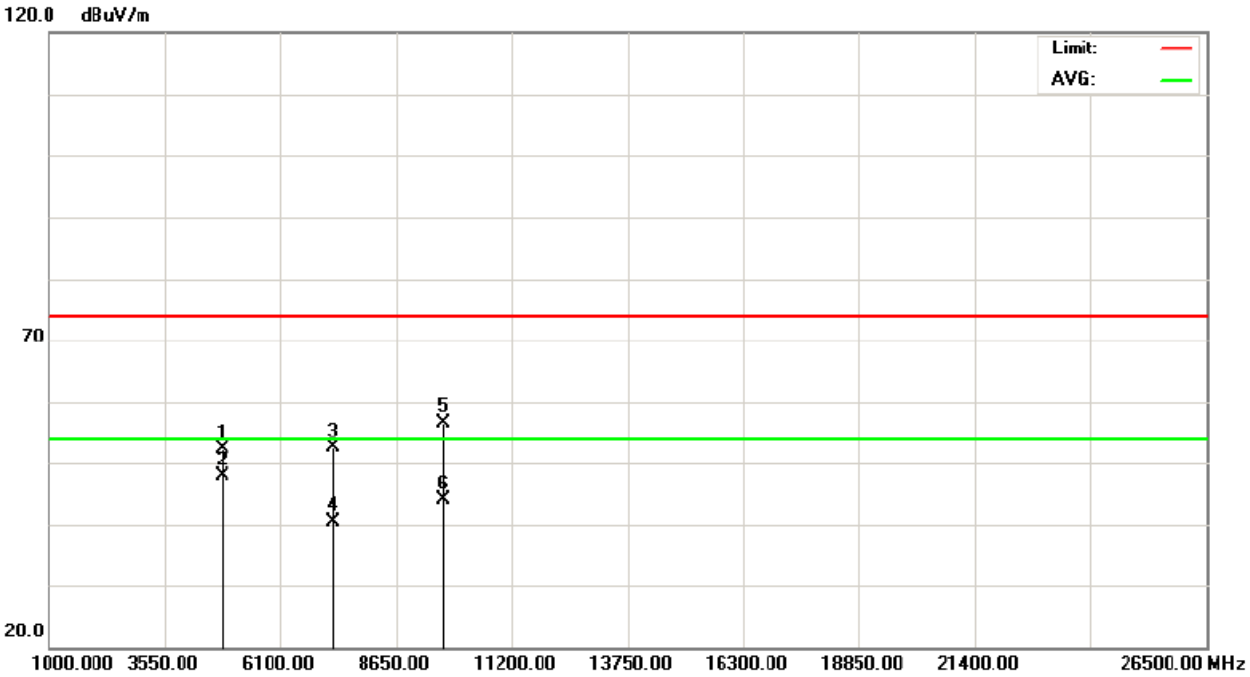
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2434.40	V	69.22	66.30	32.10	101.32	98.40			X/F
4874.00	V	51.52	48.95	3.90	55.42	52.85	74.00	54.00	X/H
7310.98	V	40.89	29.92	9.14	50.03	39.06	74.00	54.00	X/H
9747.96	V	42.42	32.02	12.11	54.53	44.13	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 。

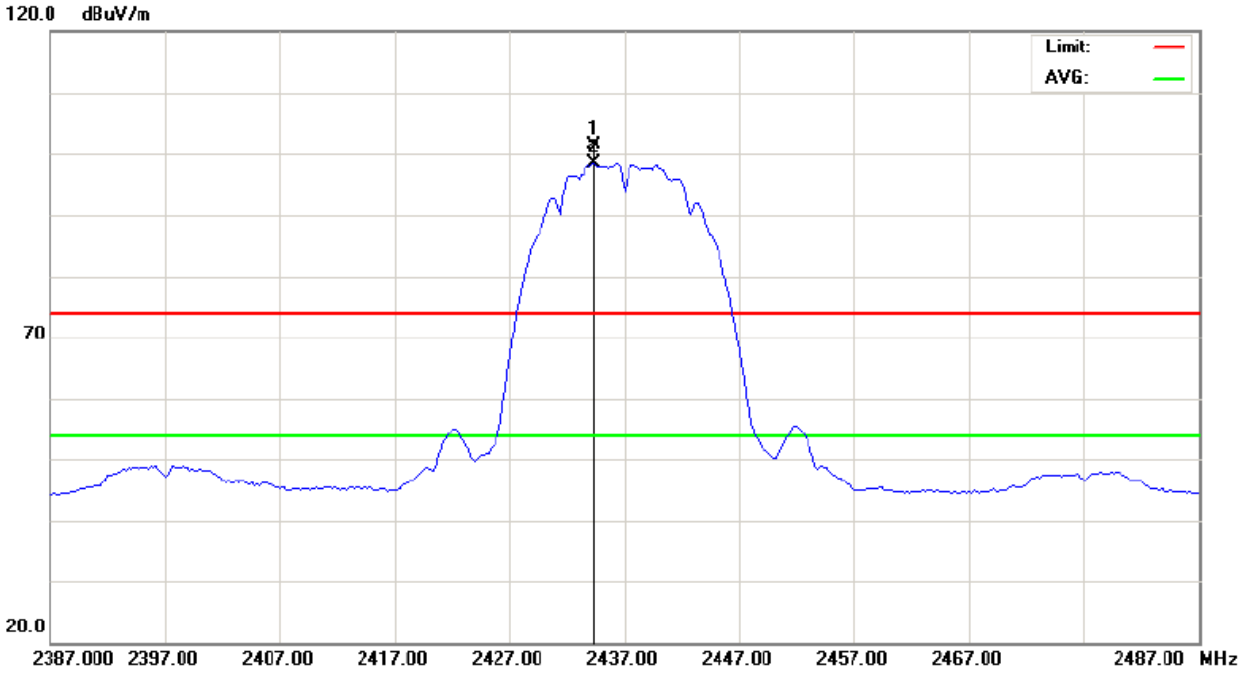
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

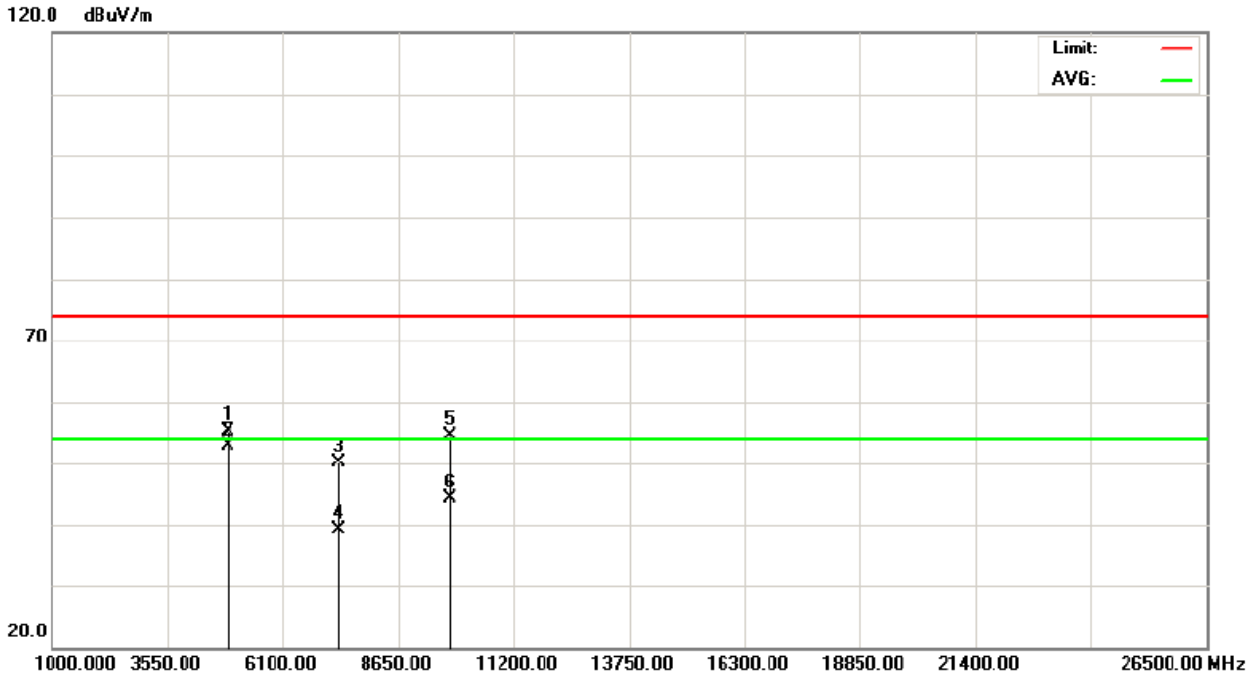
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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
802.11b/CH06(Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.80	H	61.97	58.73	32.11	94.08	90.84			X/F
4874.00	H	48.37	45.14	3.90	52.27	49.04	74.00	54.00	X/H
7311.05	H	40.94	29.86	9.14	50.08	39.00	74.00	54.00	X/H
9747.96	H	43.02	31.93	12.11	55.13	44.04	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 。

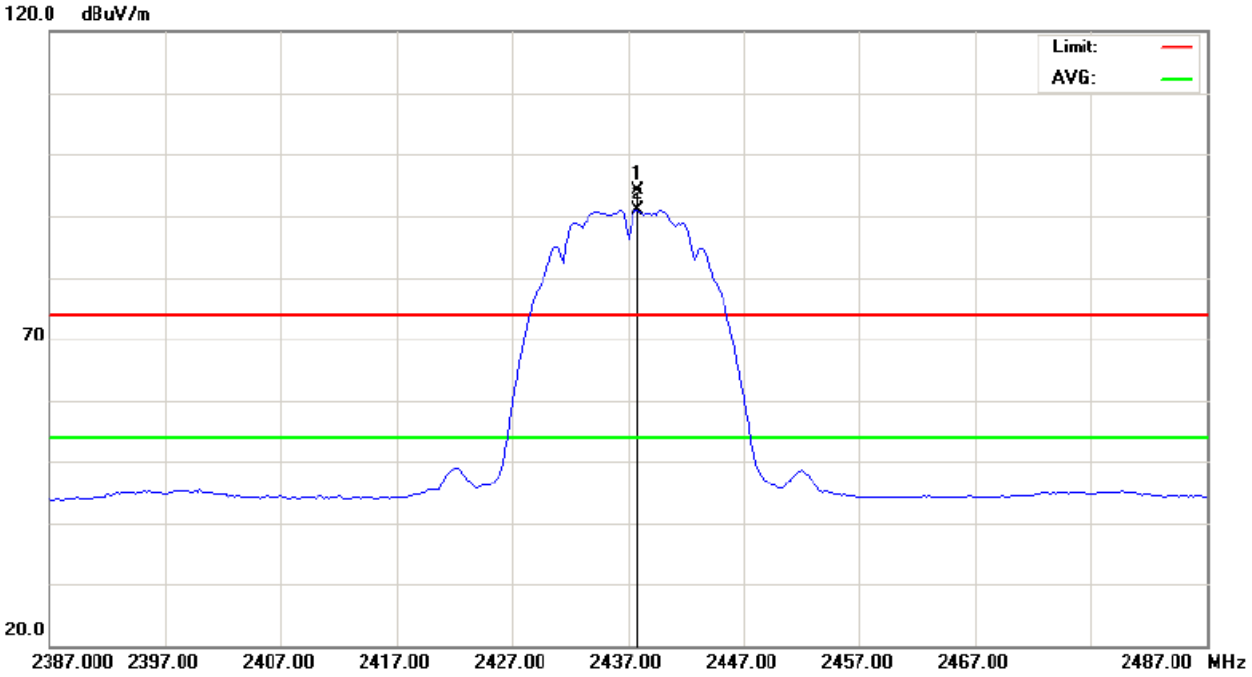
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

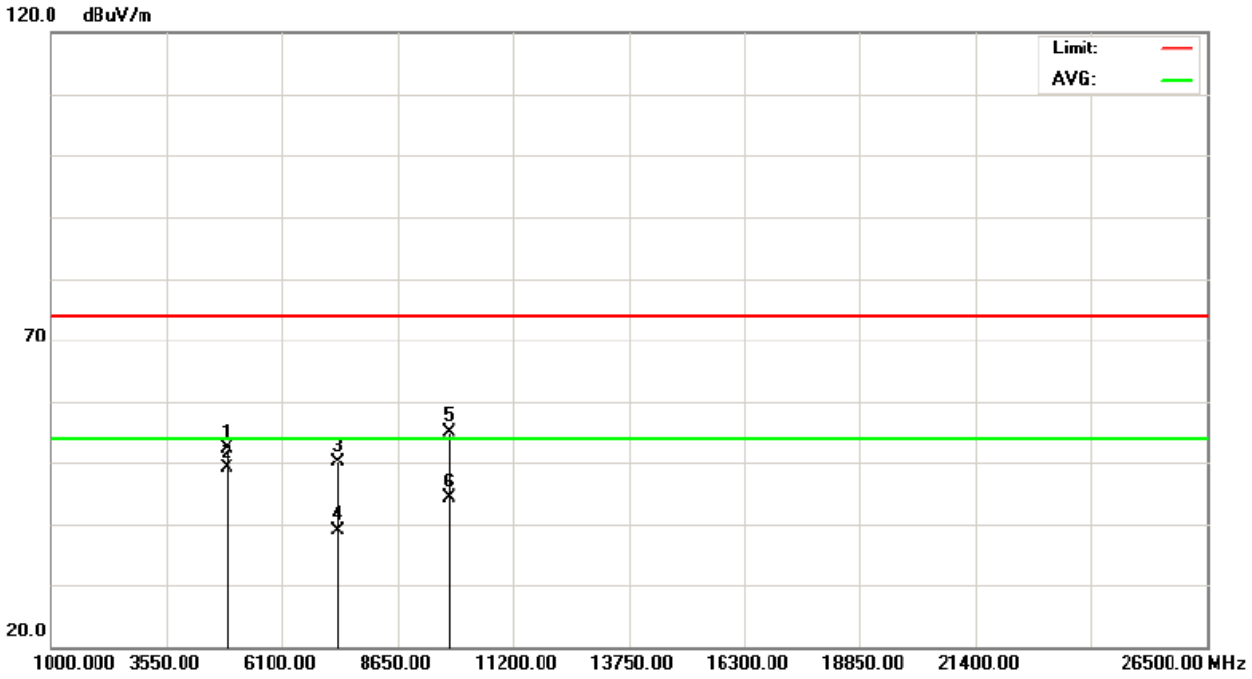
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2459.20	V	69.18	65.47	32.19	101.37	97.66			X/F
2483.50	V	22.61	12.37	32.29	54.90	44.66	74.00	54.00	X/H
4924.00	V	51.64	48.82	4.06	55.70	52.88	74.00	54.00	X/H
7386.11	V	44.24	31.89	9.27	53.51	41.16	74.00	54.00	X/H
9848.03	V	45.15	32.26	12.27	57.42	44.53	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 。

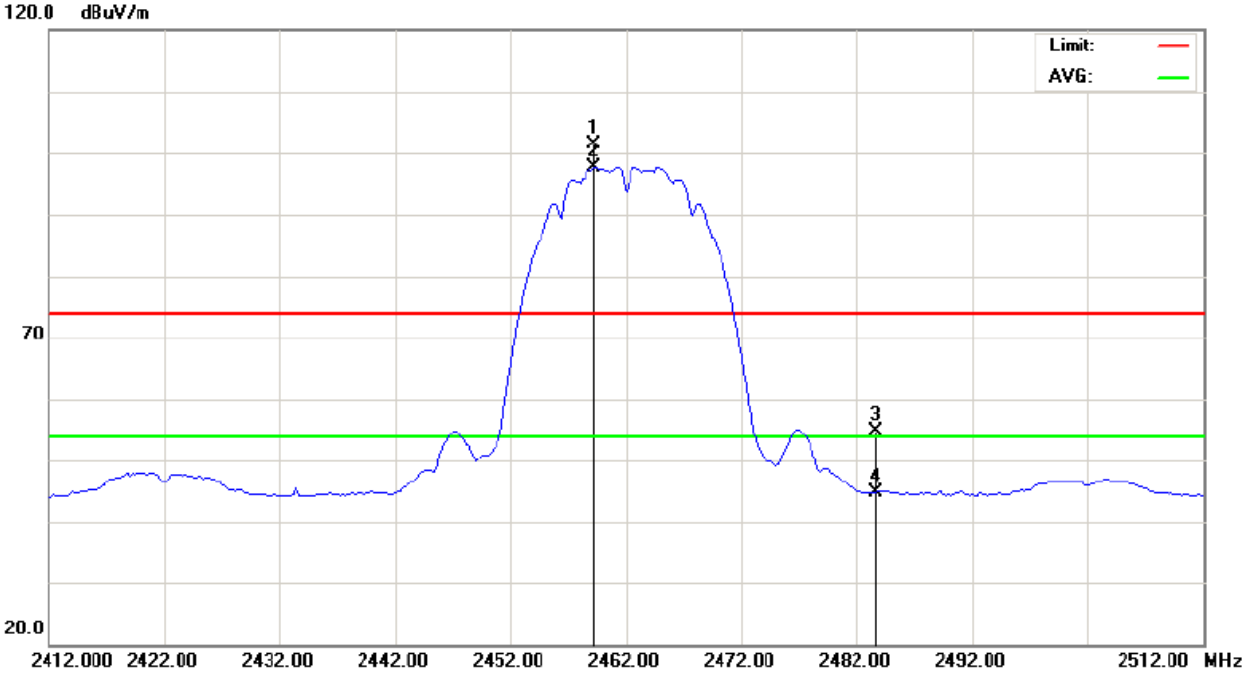
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

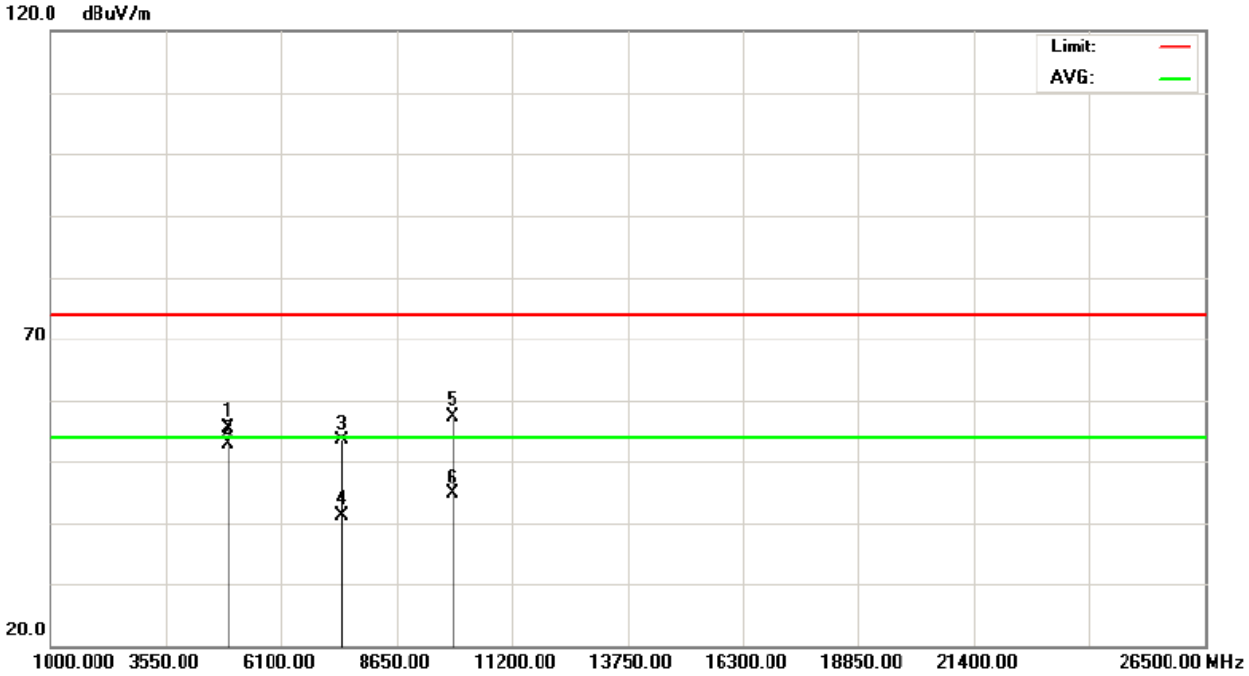
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2459.40	H	60.75	57.23	32.19	92.94	89.42			X/F
2483.50	H	20.34	11.96	32.29	52.63	44.25	74.00	54.00	X/H
4924.02	H	46.41	40.64	4.06	50.47	44.70	74.00	54.00	X/H
7386.07	H	41.36	31.45	9.27	50.63	40.72	74.00	54.00	X/H
9847.94	H	42.62	32.08	12.27	54.89	44.35	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 。

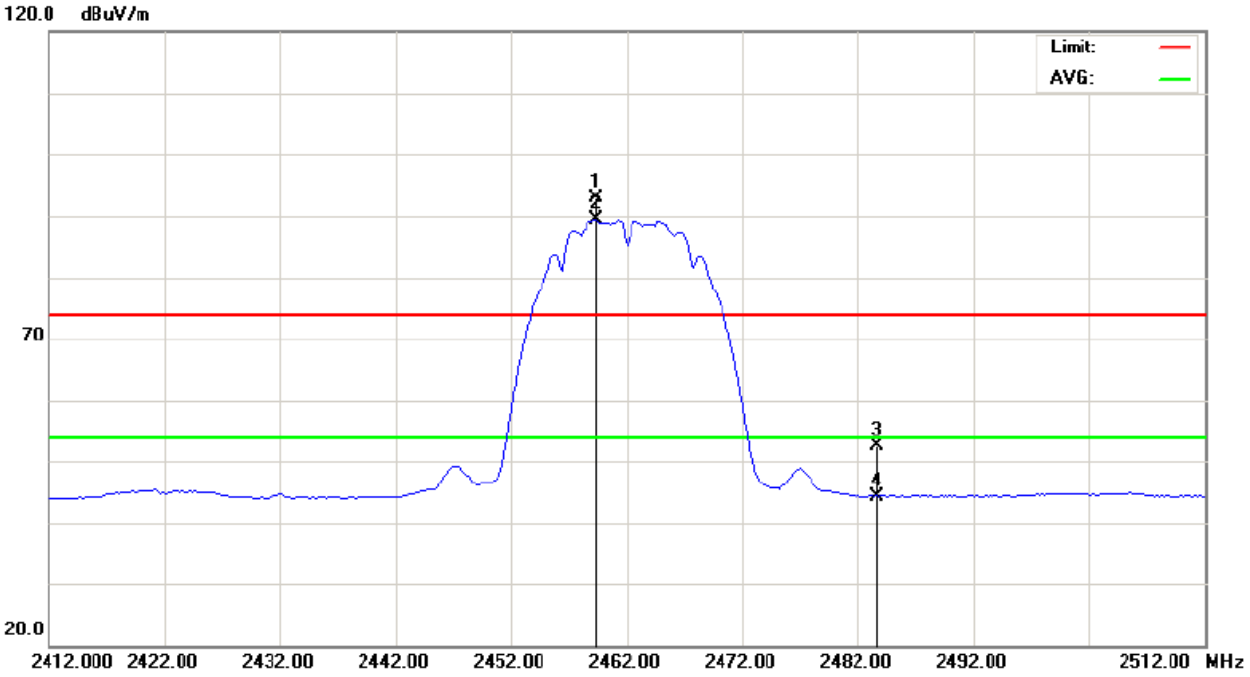
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

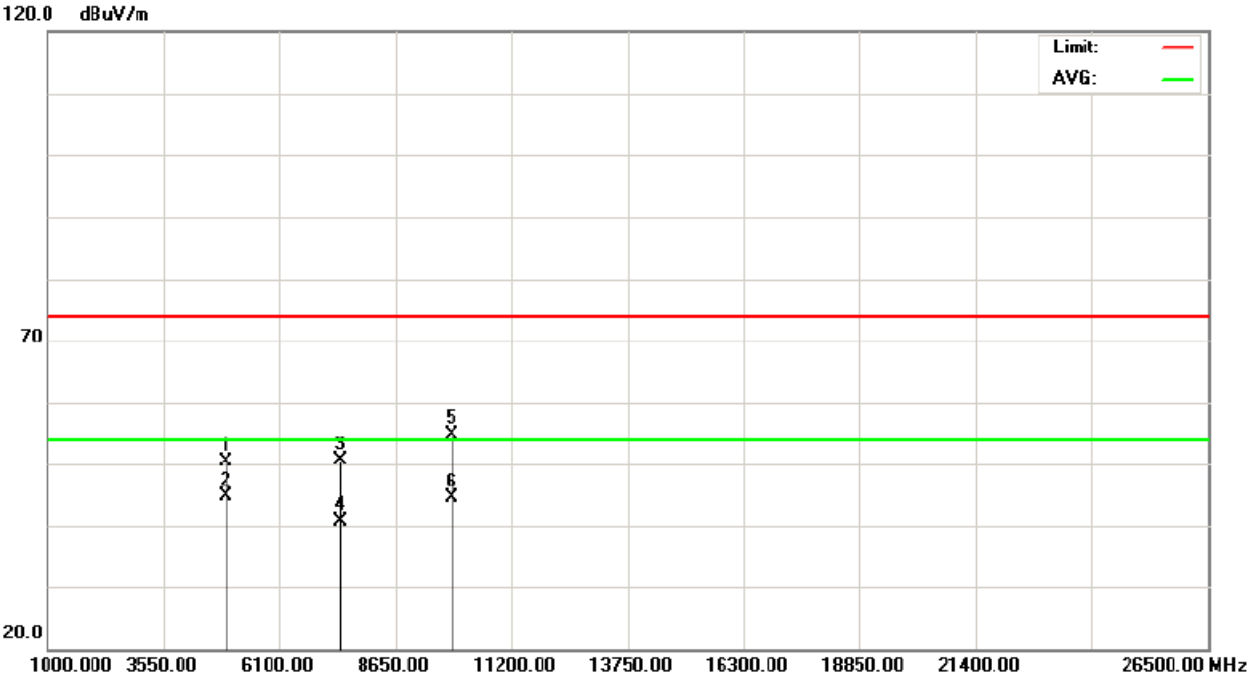
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	35.47	21.22	31.93	67.40	53.15	74.00	54.00	X/H
2414.60	V	79.50	70.69	32.02	111.52	102.71			X/F
4823.90	V	62.47	49.44	3.75	66.22	53.19	74.00	54.00	X/H
7235.20	V	58.64	40.21	9.02	67.66	49.23	74.00	54.00	X/H
9649.50	V	52.58	37.22	11.96	64.54	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 。

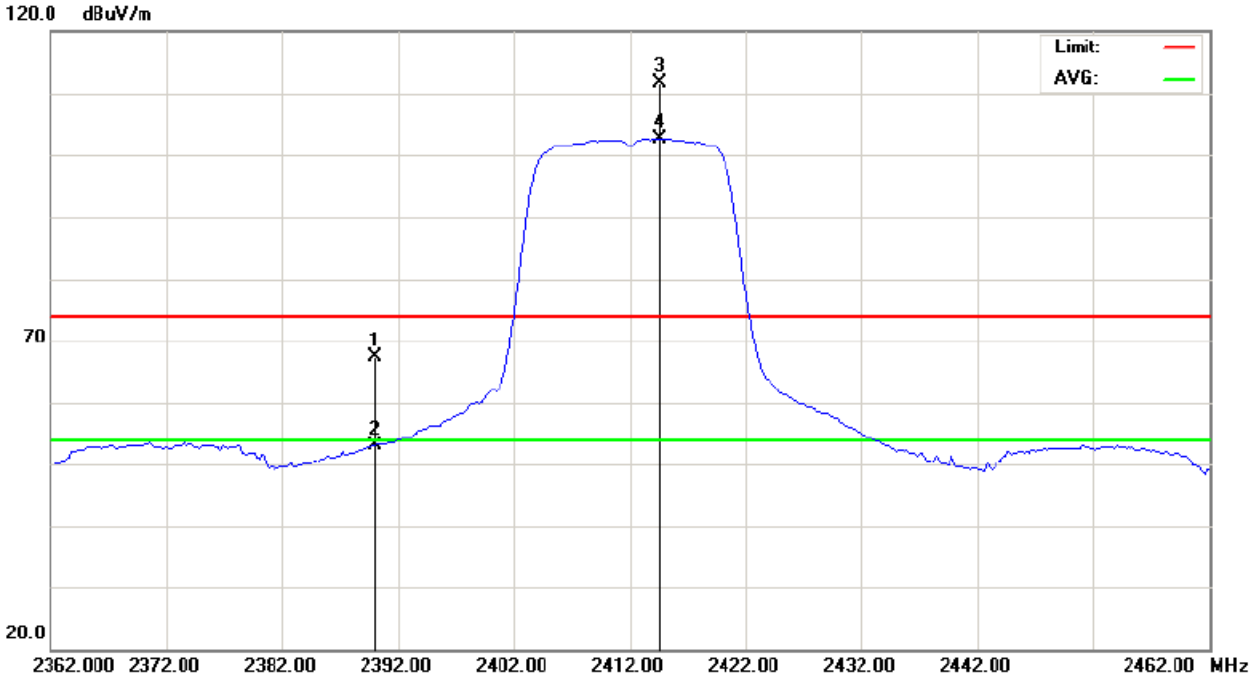
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

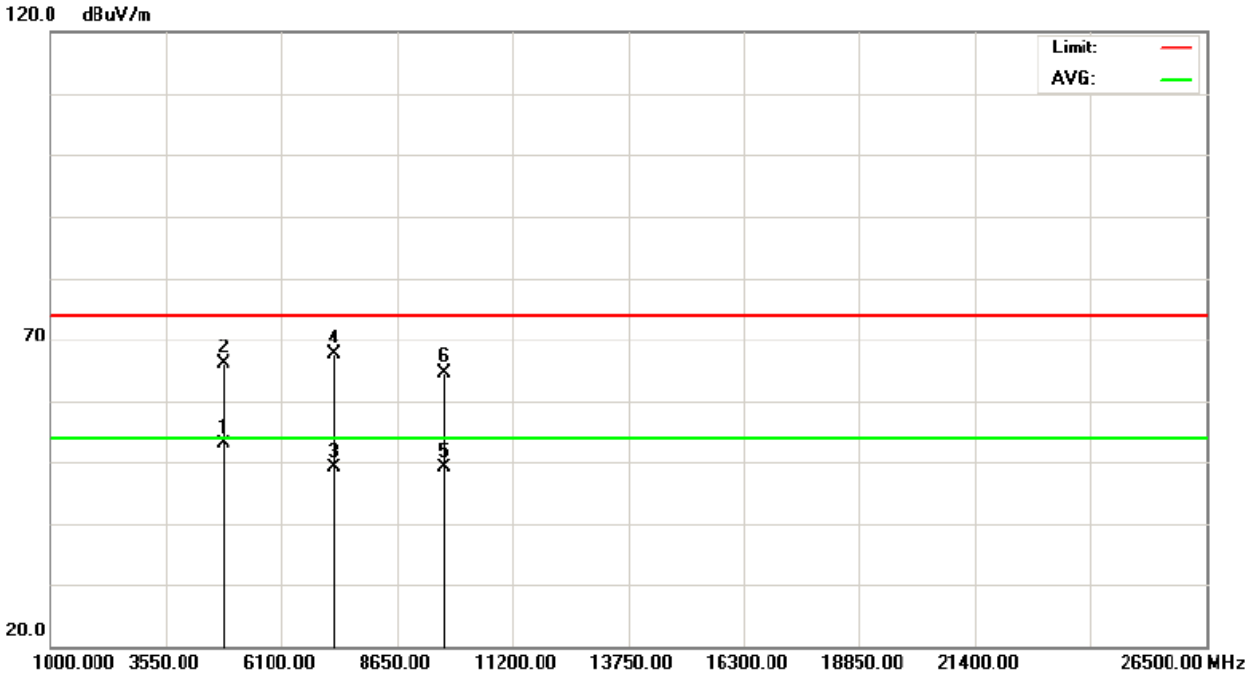
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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
802.11g/CH01(Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	29.08	16.22	31.93	61.01	48.15	74.00	54.00	X/H
2410.20	H	71.53	62.74	32.00	103.53	94.74			X/F
4822.00	H	53.82	42.91	3.37	57.19	46.28	74.00	54.00	X/H
7237.00	H	46.88	36.01	9.02	55.90	45.03	74.00	54.00	X/H
9648.80	H	47.68	34.54	11.96	59.64	46.50	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 。

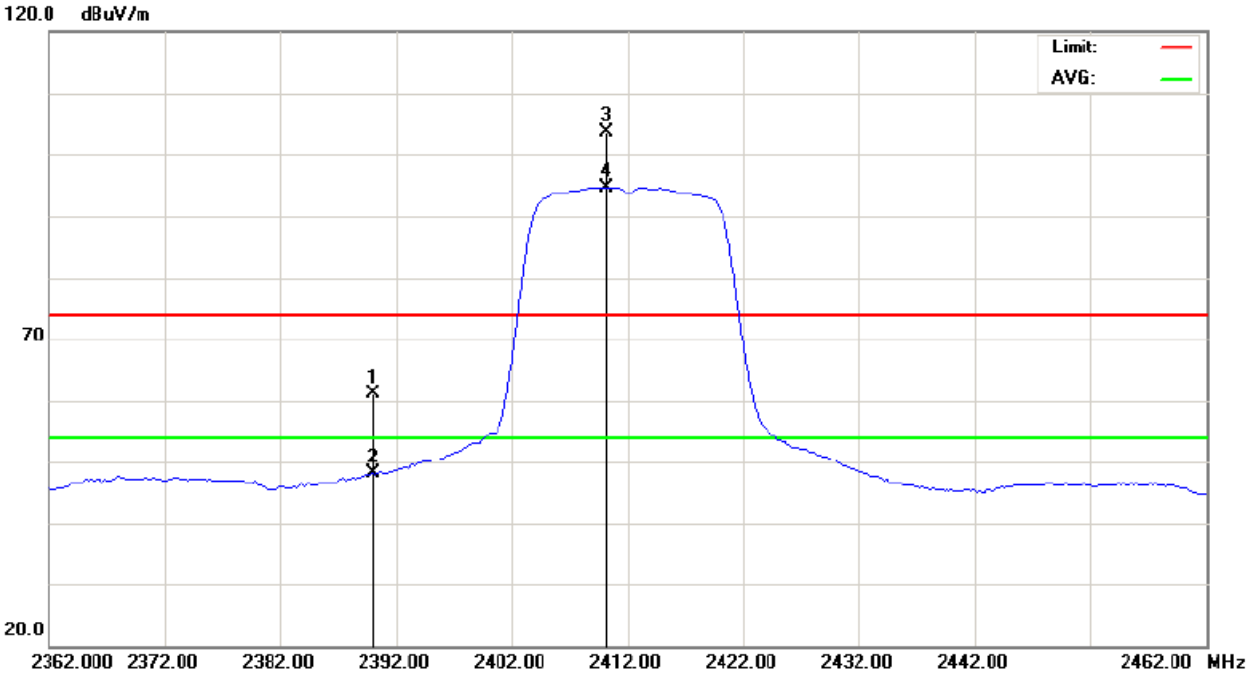
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

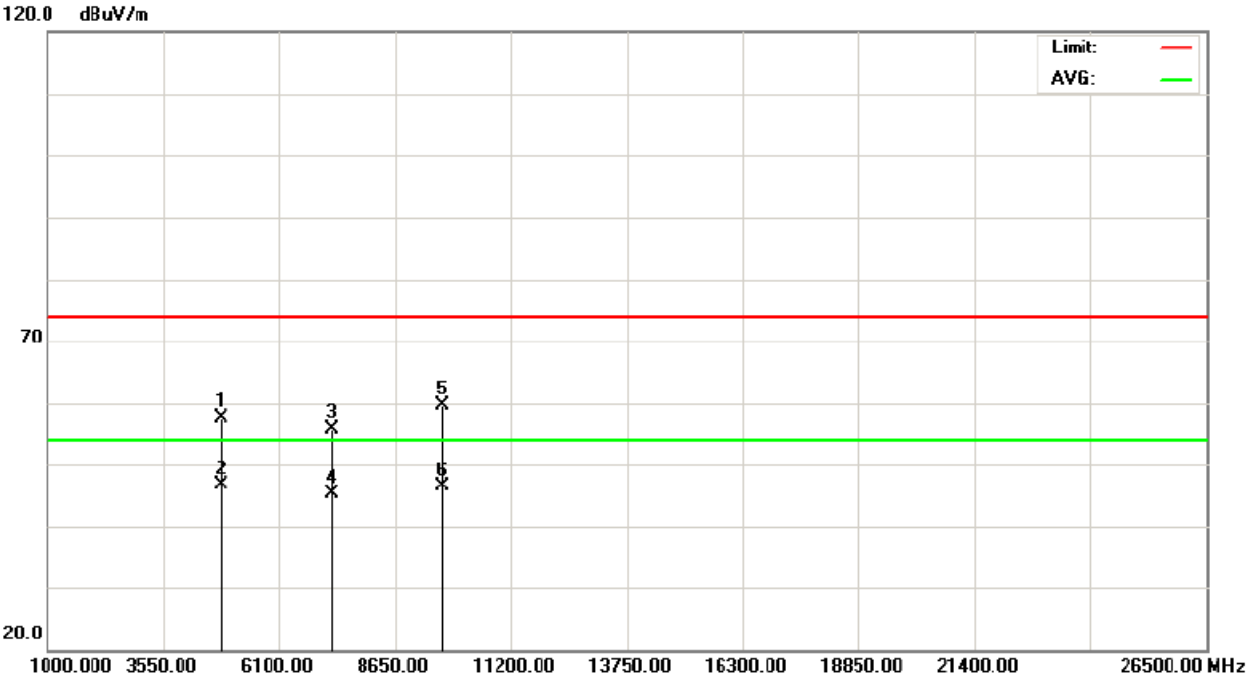
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2434.80	V	78.75	70.58	32.10	110.85	102.68			X/F
4872.10	V	54.72	44.01	3.90	58.62	47.91	74.00	54.00	X/H
7310.30	V	55.59	40.88	9.14	64.73	50.02	74.00	54.00	X/H
9743.60	V	51.73	36.56	12.11	63.84	48.67	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 。

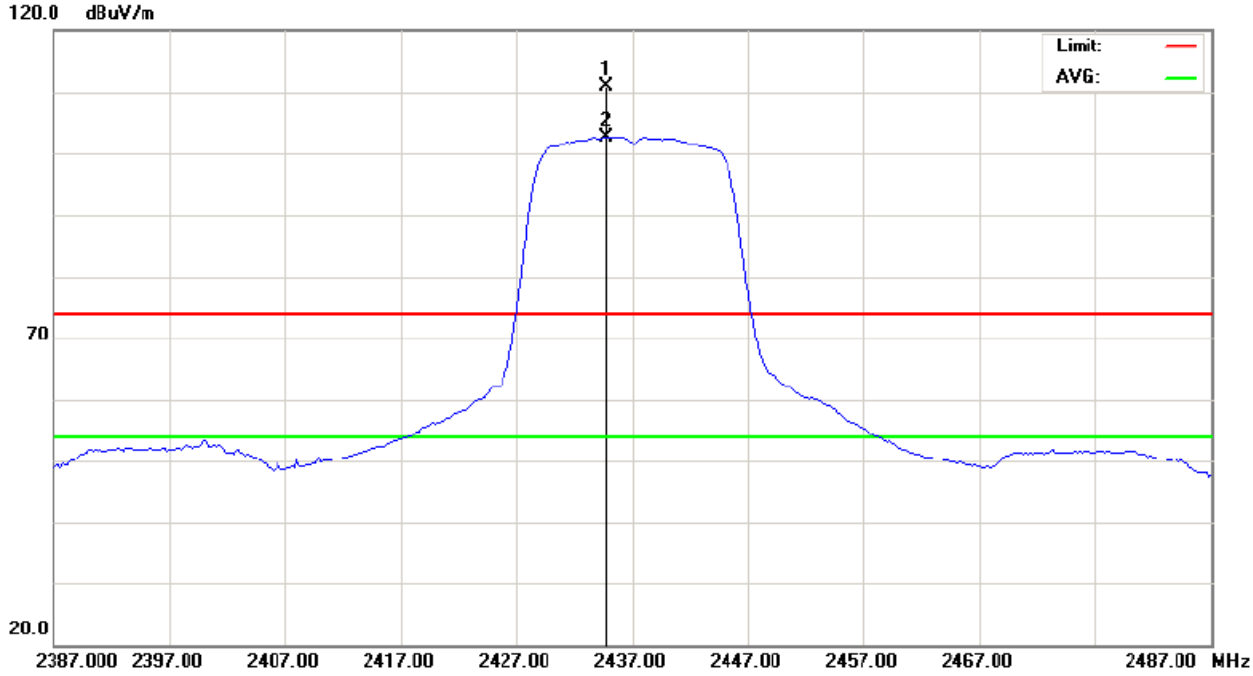
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

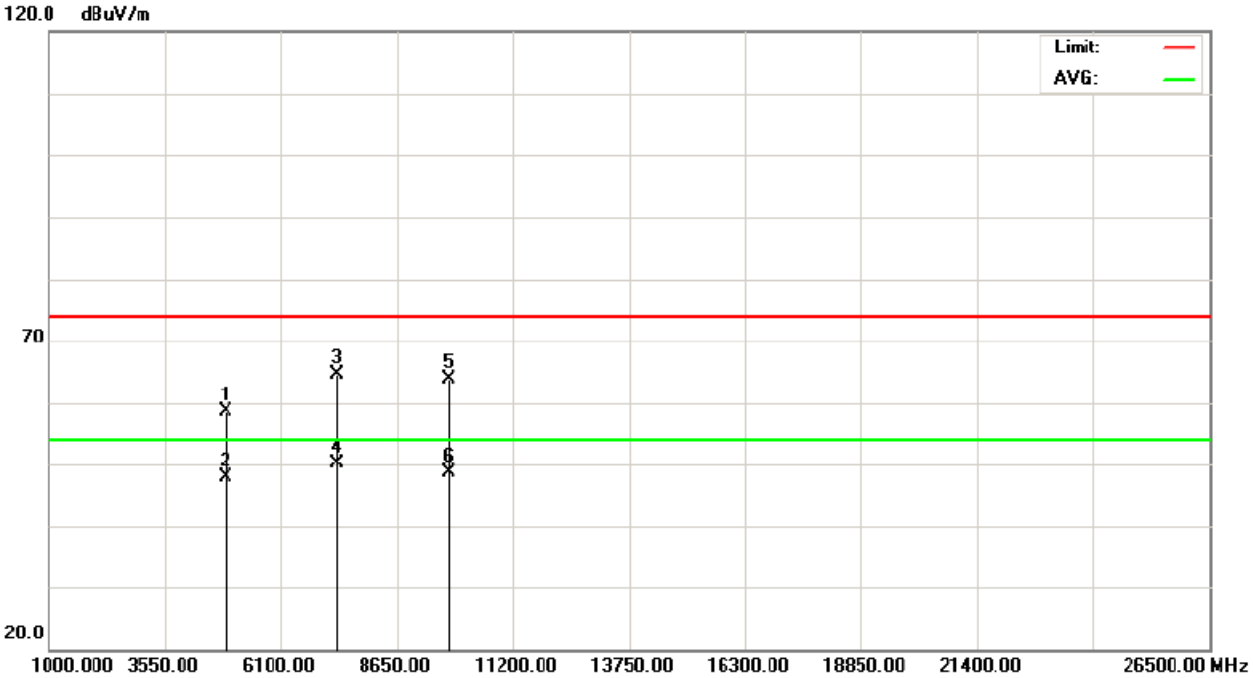
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.20	H	70.11	62.00	32.12	102.23	94.12			X/F
4872.10	H	52.19	37.45	3.90	56.09	41.35	74.00	54.00	X/H
7310.10	H	49.83	36.09	9.14	58.97	45.23	74.00	54.00	X/H
9748.60	H	41.07	31.11	12.11	53.18	43.22	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 。

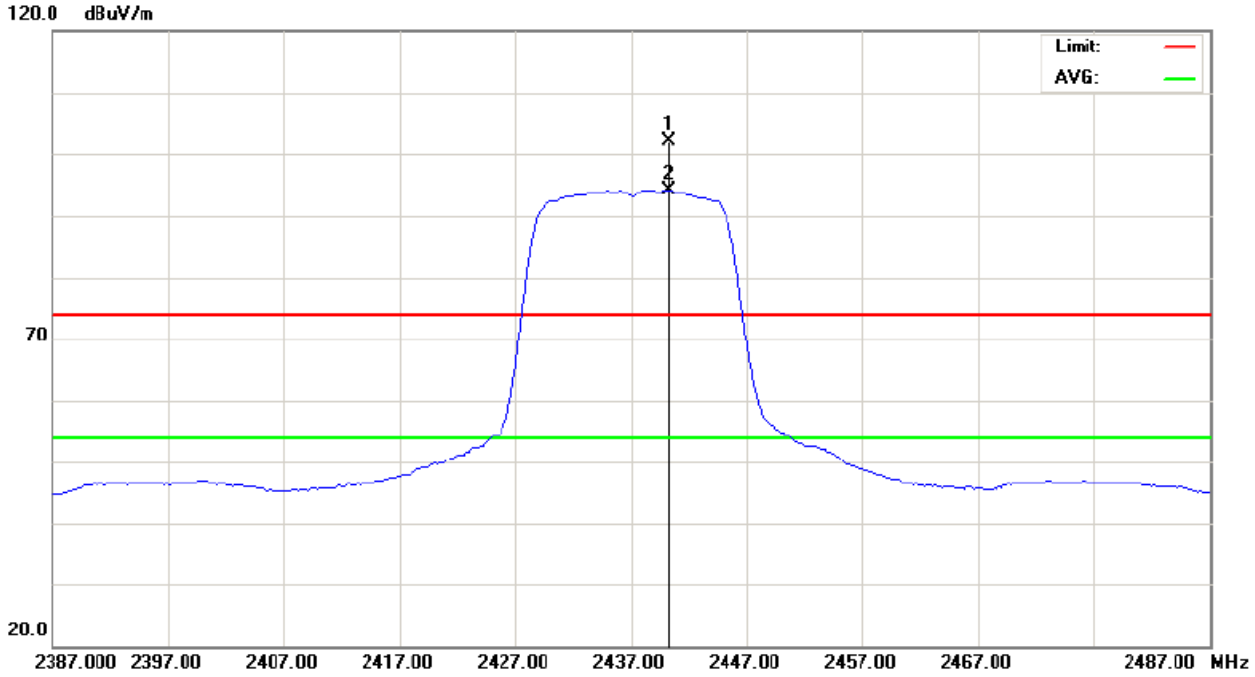
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

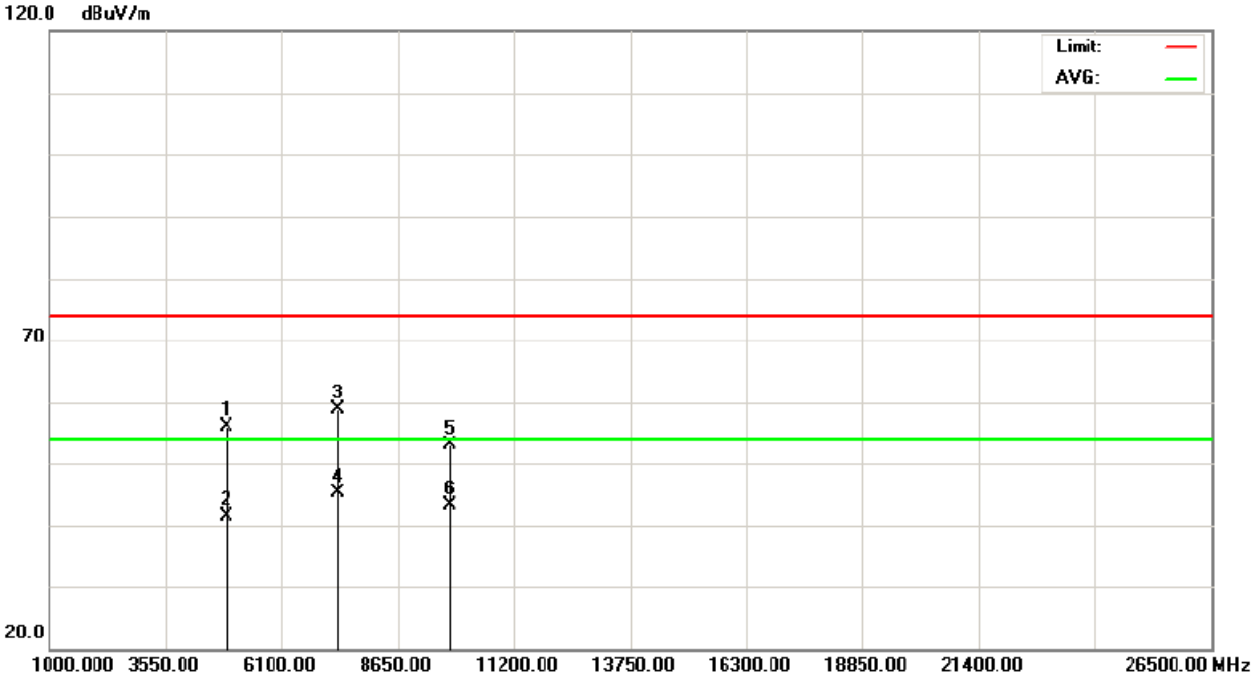
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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
802.11g/CH06(Above 1000 MHz, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2458.60	V	78.63	69.59	32.19	110.82	101.78			X/F
2483.50	V	36.61	19.14	32.29	68.90	51.43	74.00	54.00	X/H
4926.00	V	66.47	47.10	4.07	70.54	51.17	74.00	54.00	X/H
7385.50	V	55.03	36.16	9.26	64.29	45.42	74.00	54.00	X/H
9847.70	V	44.38	32.91	12.27	56.65	45.18	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 。

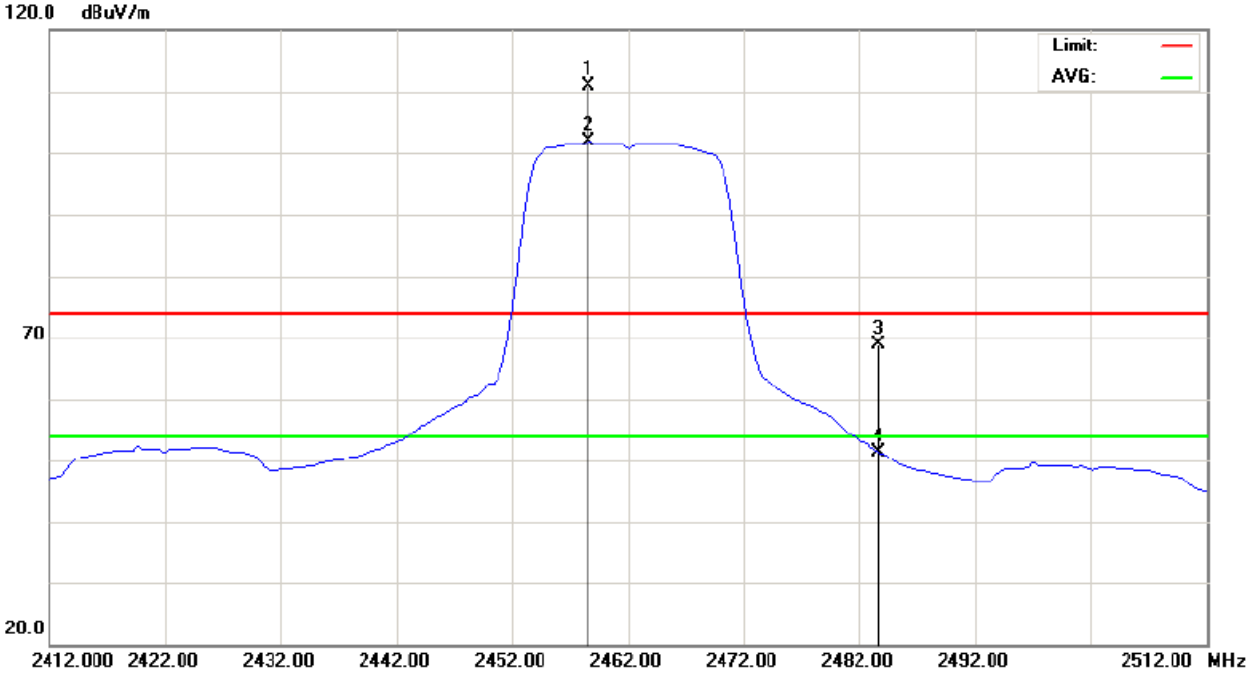
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

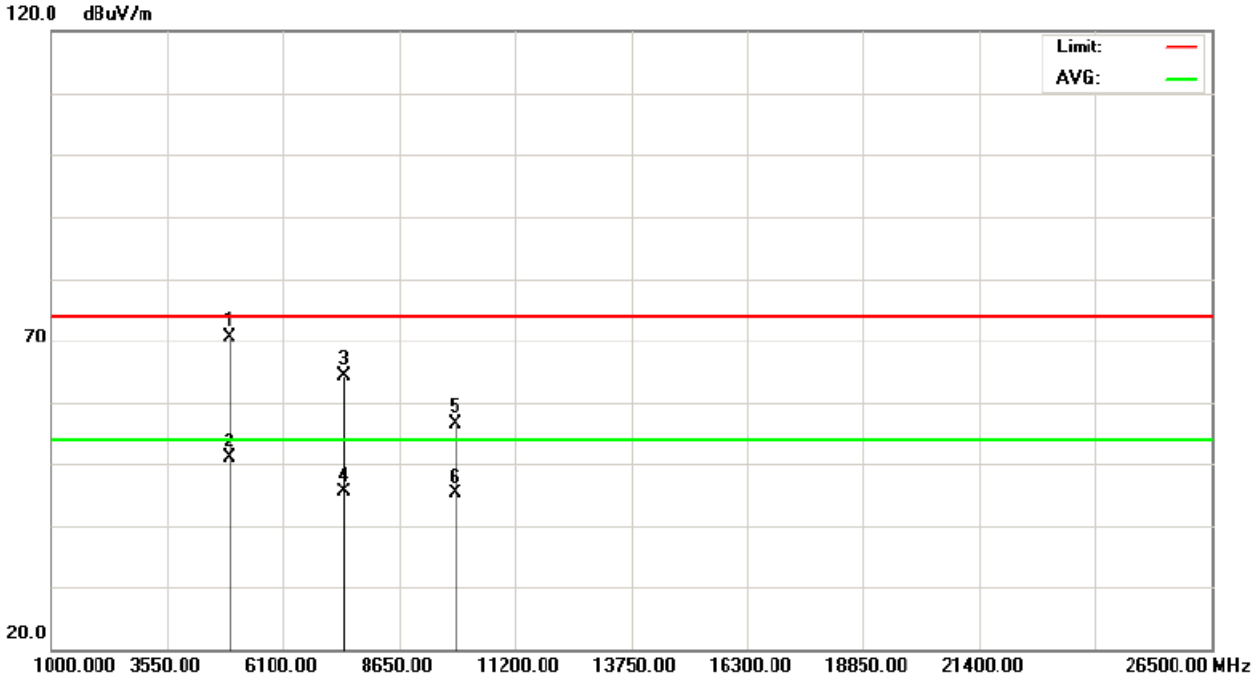
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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
802.11g/CH11(Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.40	H	73.14	63.91	32.21	105.35	96.12			X/F
2483.50	H	33.26	15.89	32.29	65.55	48.18	74.00	54.00	X/H
4926.00	H	59.30	38.81	4.07	63.37	42.88	74.00	54.00	X/H
7385.40	H	53.86	35.92	9.26	63.12	45.18	74.00	54.00	X/H
9847.70	H	42.47	31.66	12.27	54.74	43.93	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 。

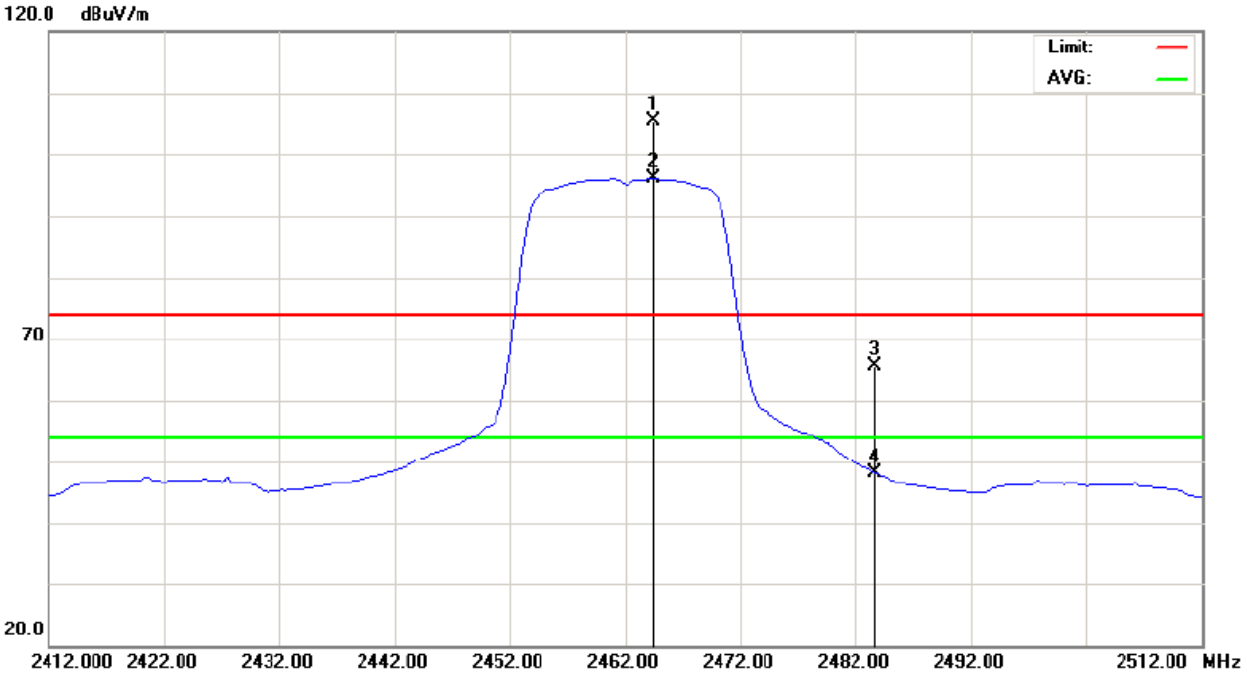
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

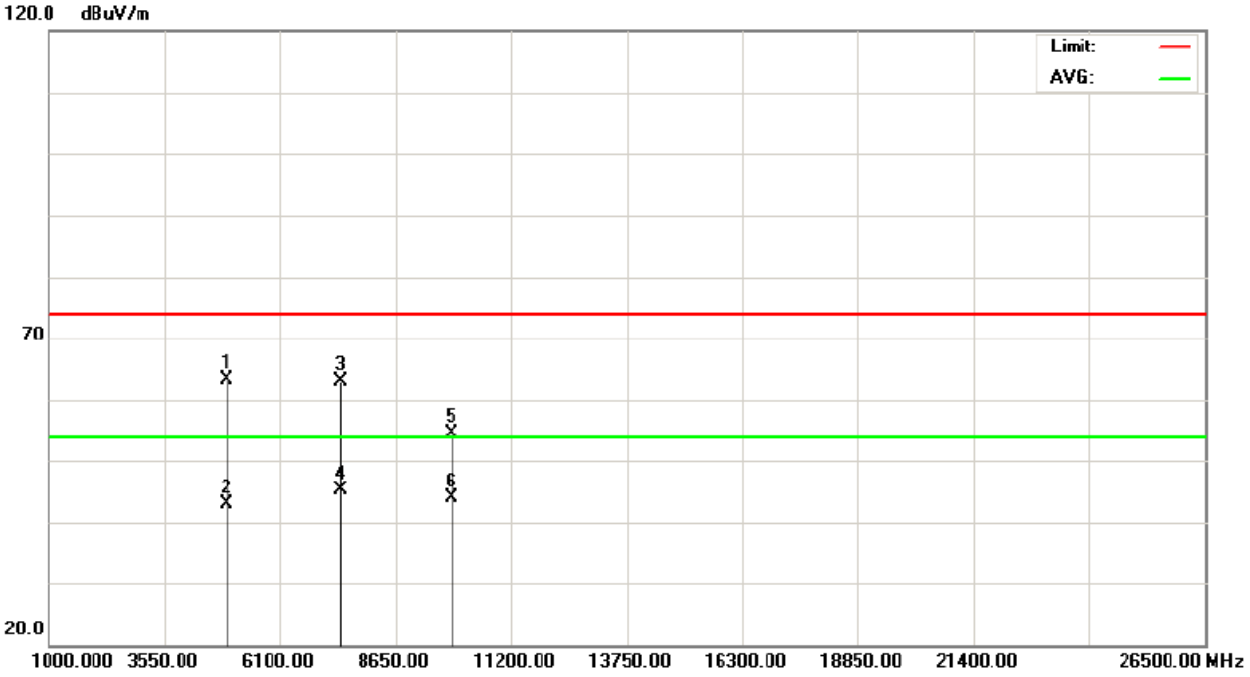
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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
802.11g/CH11(Above 1000 MHz, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2374.60	V	26.78	18.43	31.87	58.65	50.30	74.00	54.00	X/H
2413.80	V	77.69	67.31	32.02	109.71	99.33			X/F
4823.70	V	63.17	49.21	3.75	66.92	52.96	74.00	54.00	X/H
7236.90	V	60.13	40.82	9.02	69.15	49.84	74.00	54.00	X/H
9647.70	V	47.33	34.68	11.96	59.29	46.64	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 。

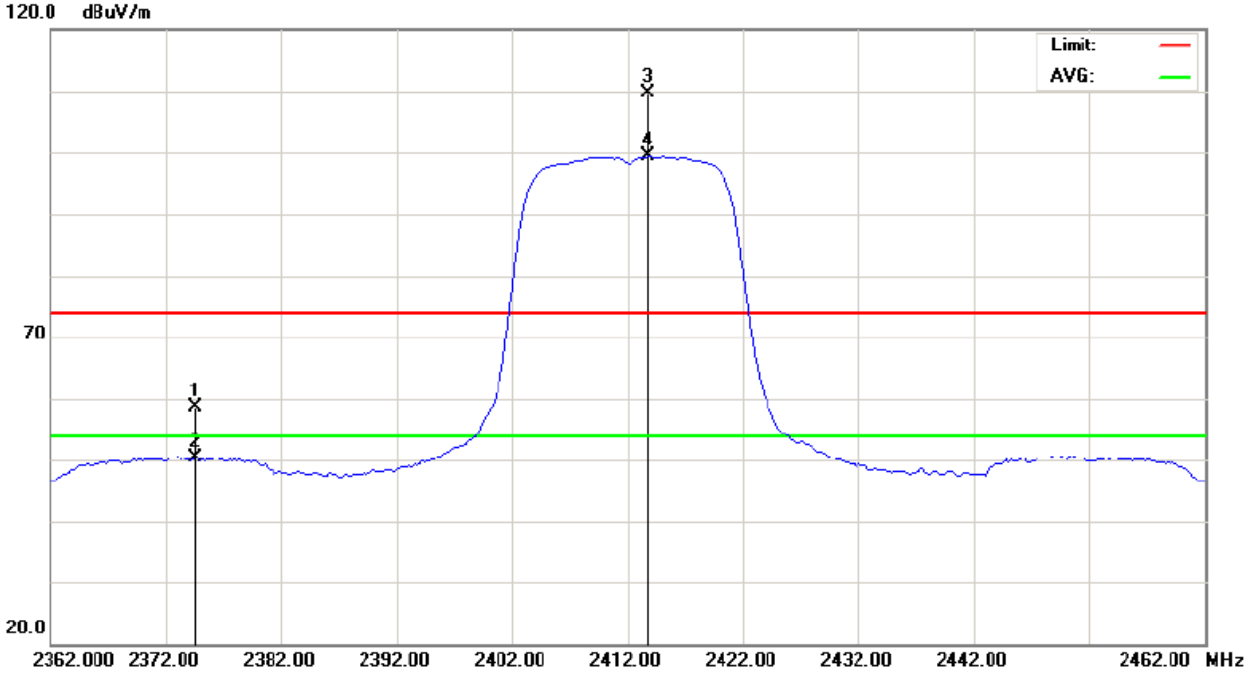
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

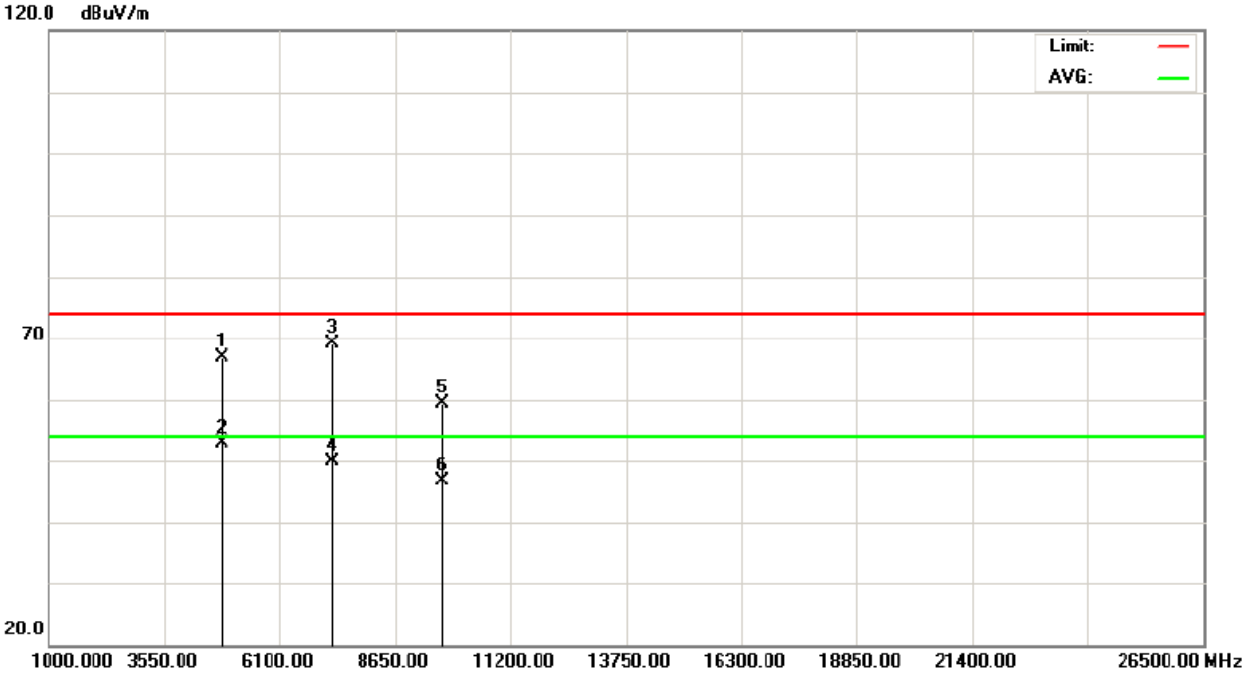
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2372.20	H	21.30	13.54	31.86	53.16	45.40	74.00	54.00	X/H
2408.80	H	68.56	58.43	32.00	100.56	90.43			X/F
4822.60	H	55.56	42.80	3.74	59.30	46.54	74.00	54.00	X/H
7236.70	H	46.85	34.77	9.02	55.87	43.79	74.00	54.00	X/H
9647.70	H	42.49	32.33	11.96	54.45	44.29	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 。

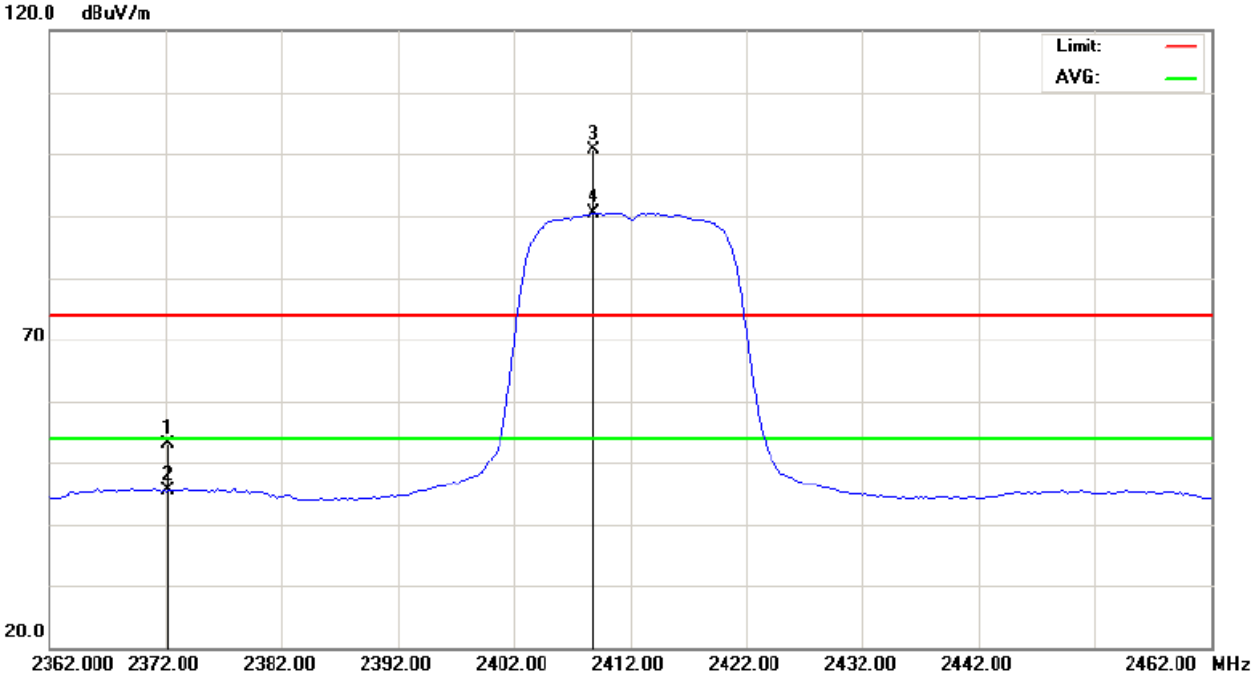
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

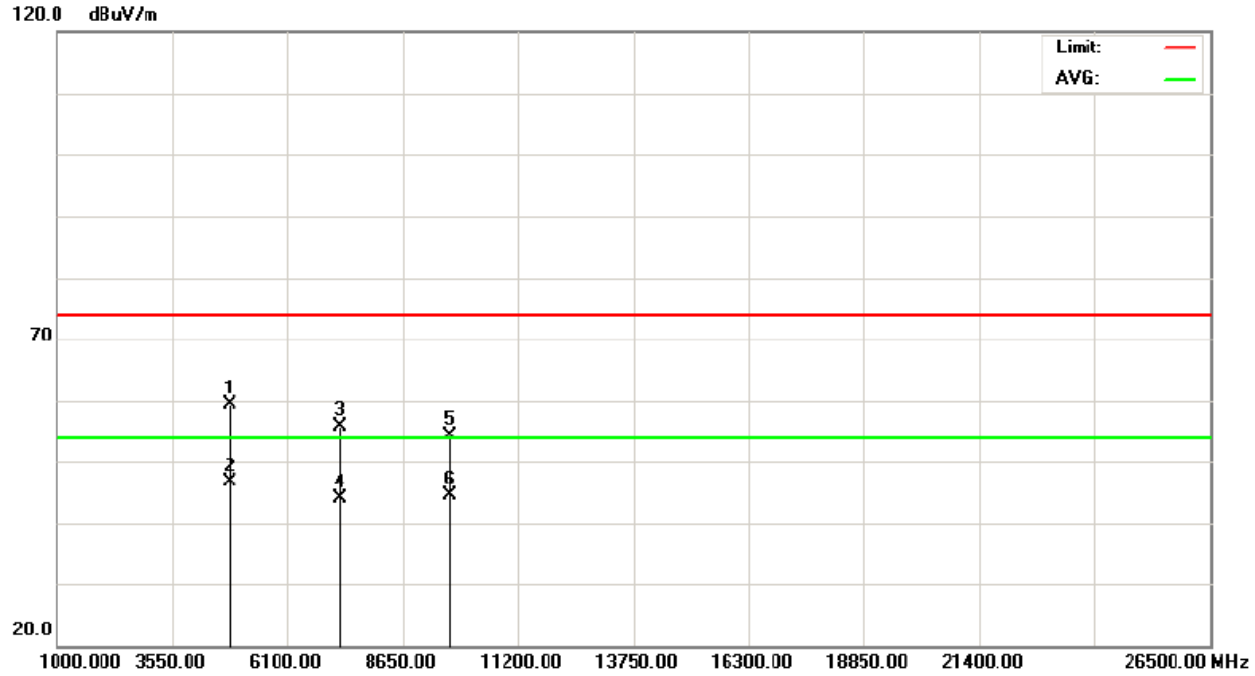
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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/20M/CH01 (Above 1000 MHz, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2435.40	V	80.67	70.03	32.10	112.77	102.13			X/F
4870.60	V	62.12	49.51	3.89	66.01	53.40	74.00	54.00	X/H
7309.20	V	48.84	37.02	9.14	57.98	46.16	74.00	54.00	X/H
9749.30	V	48.06	36.01	12.11	60.17	48.12	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 。

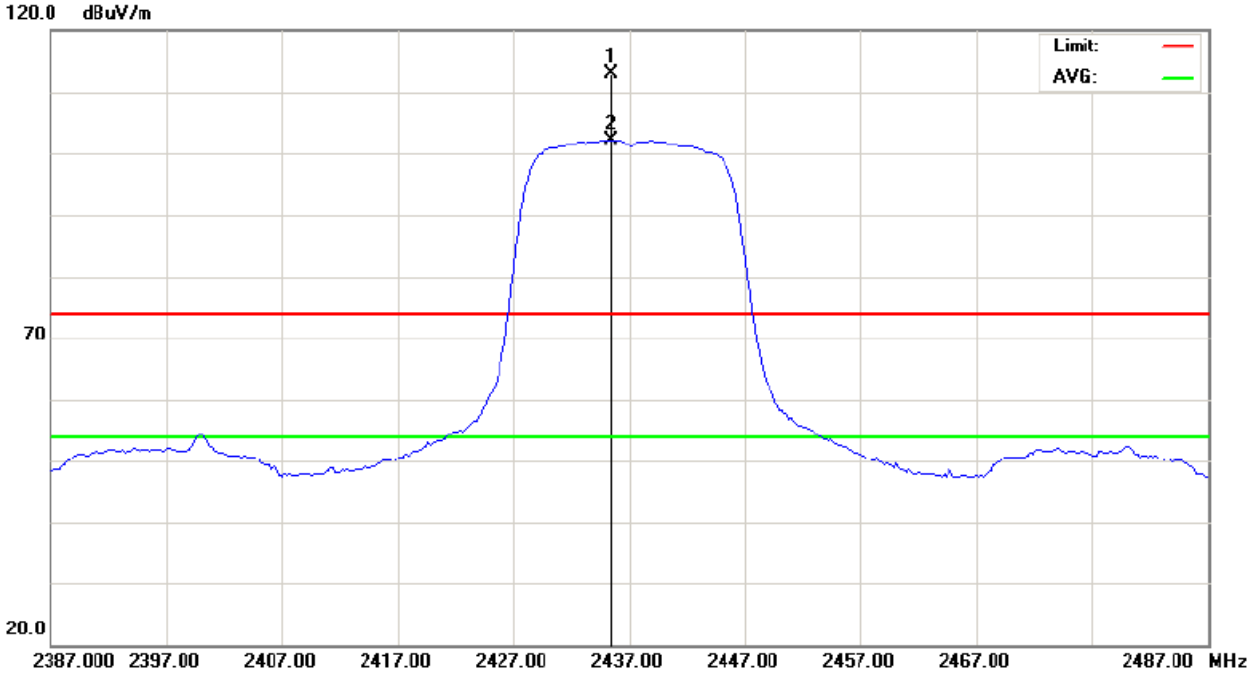
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

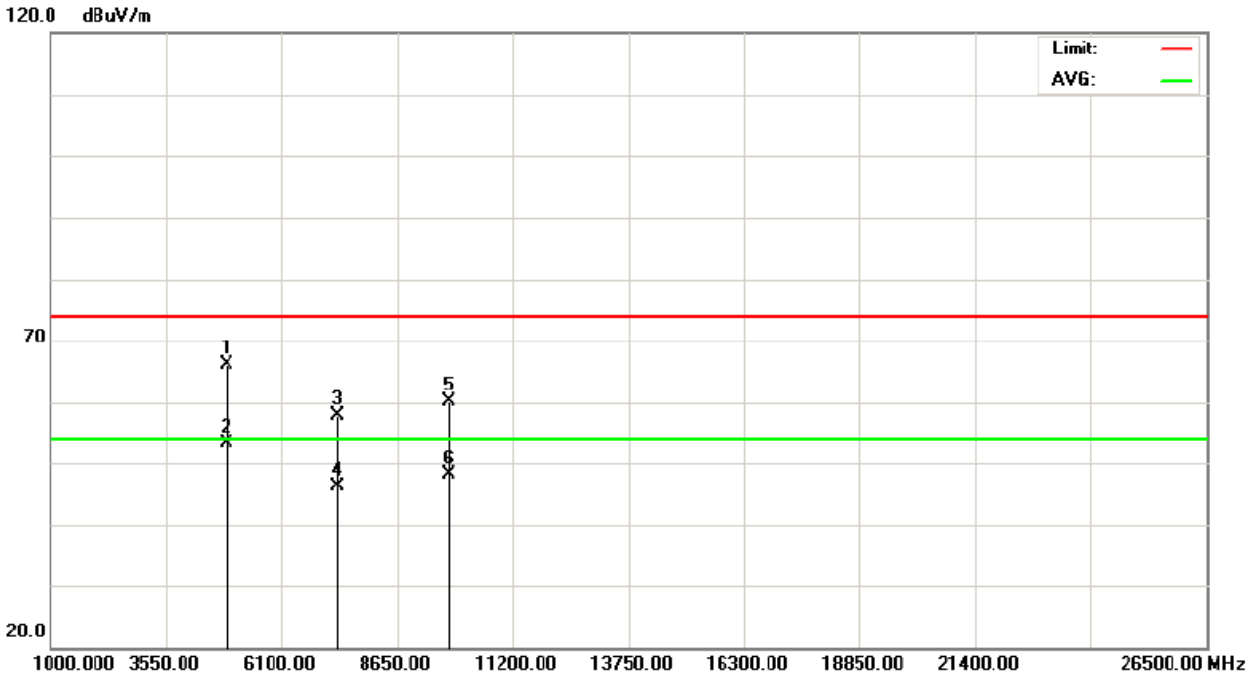
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2438.20	H	70.69	62.03	32.11	102.80	94.14			X/F
4873.10	H	56.03	37.48	3.90	59.93	41.38	74.00	54.00	X/H
7309.30	H	44.24	32.35	9.14	53.38	41.49	74.00	54.00	X/H
9747.30	H	41.62	31.99	12.11	53.73	44.10	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 。

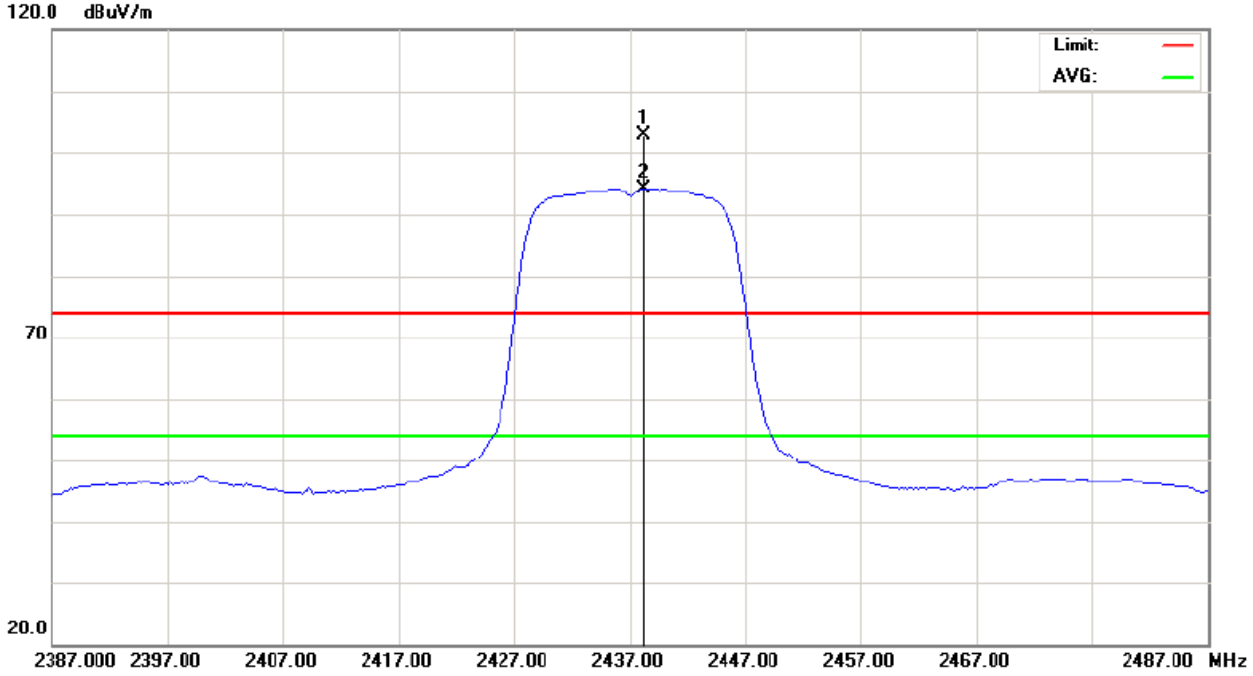
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

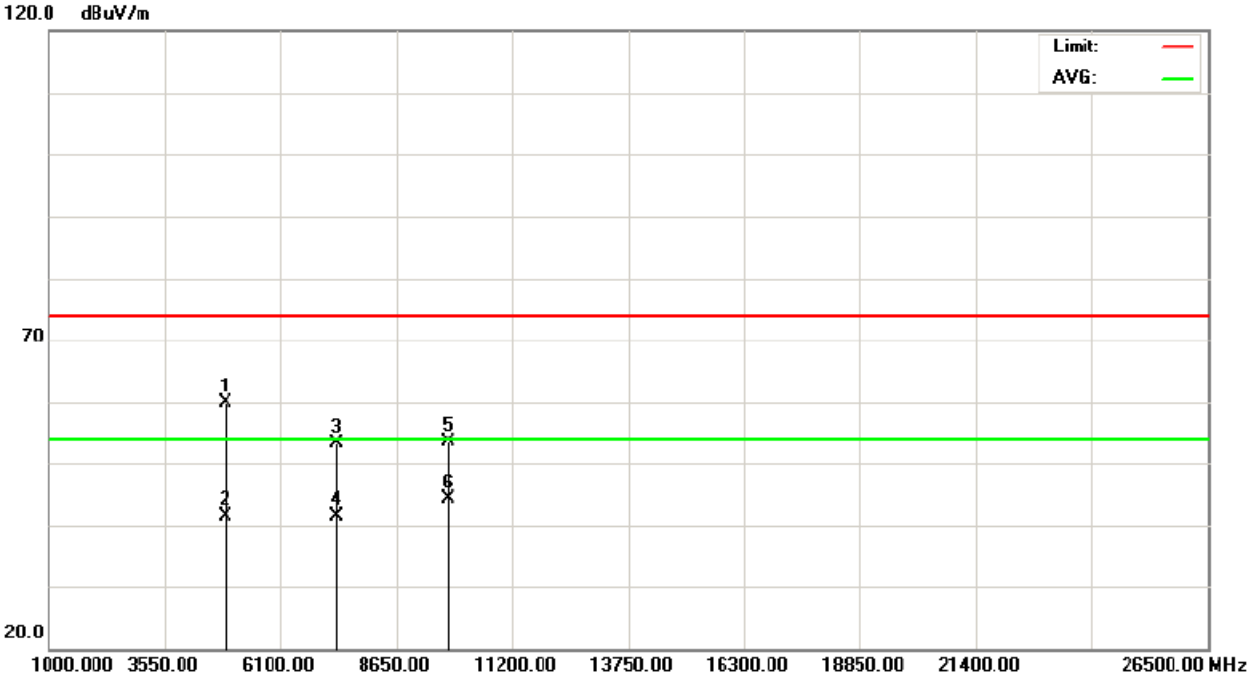
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2458.80	V	78.88	69.73	32.19	111.07	101.92			X/F
2483.50	V	41.12	20.76	32.29	73.41	53.05	74.00	54.00	X/H
4923.80	V	65.28	47.50	4.06	69.34	51.56	74.00	54.00	X/H
7386.60	V	57.04	38.16	9.27	66.31	47.43	74.00	54.00	X/H
9849.60	V	43.28	32.11	12.27	55.55	44.38	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 。

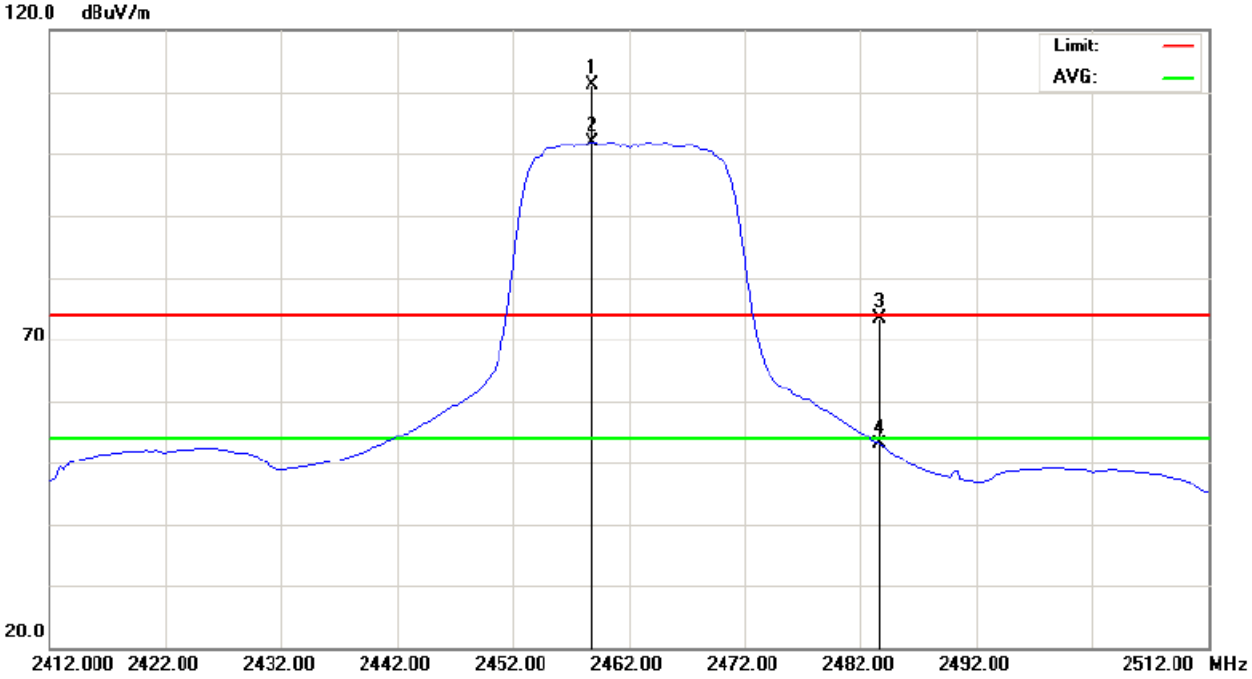
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

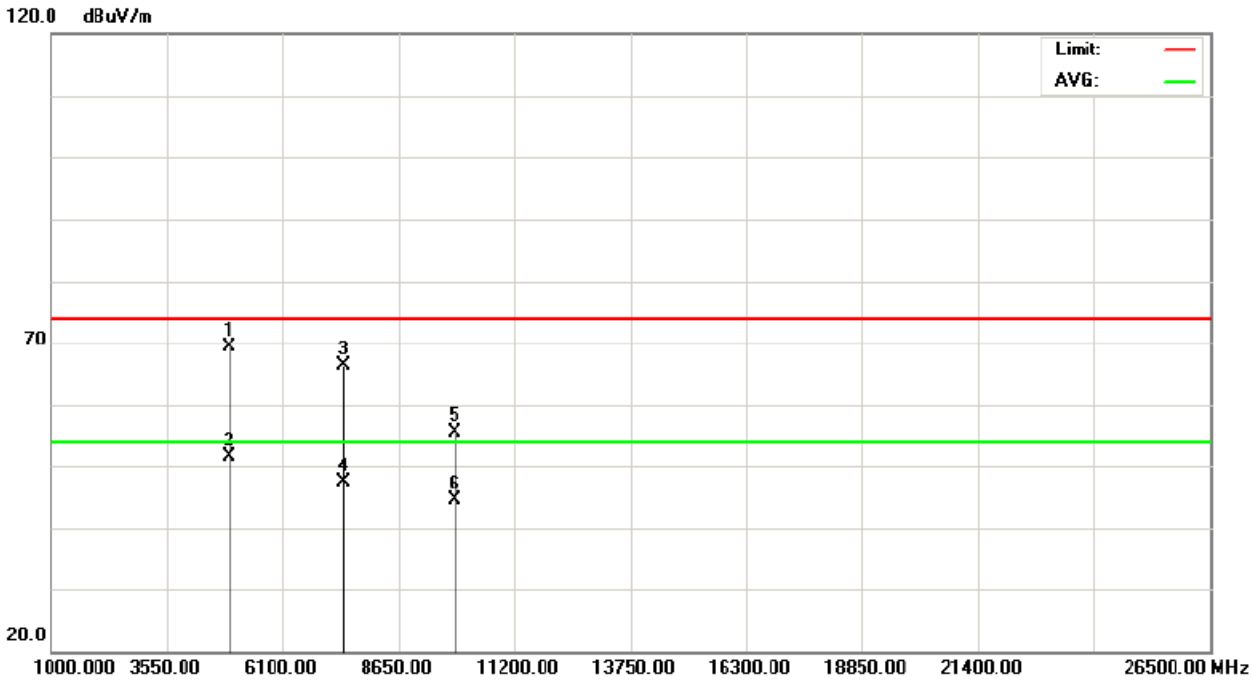
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH11		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2463.60	H	72.98	63.82	32.21	105.19	96.03			X/F
2483.50	H	37.55	17.55	32.29	69.84	49.84	74.00	54.00	X/H
4923.80	H	57.35	37.71	4.06	61.41	41.77	74.00	54.00	X/H
7386.60	H	58.50	38.18	9.27	67.77	47.45	74.00	54.00	X/H
9849.60	H	42.80	31.60	12.27	55.07	43.87	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 。

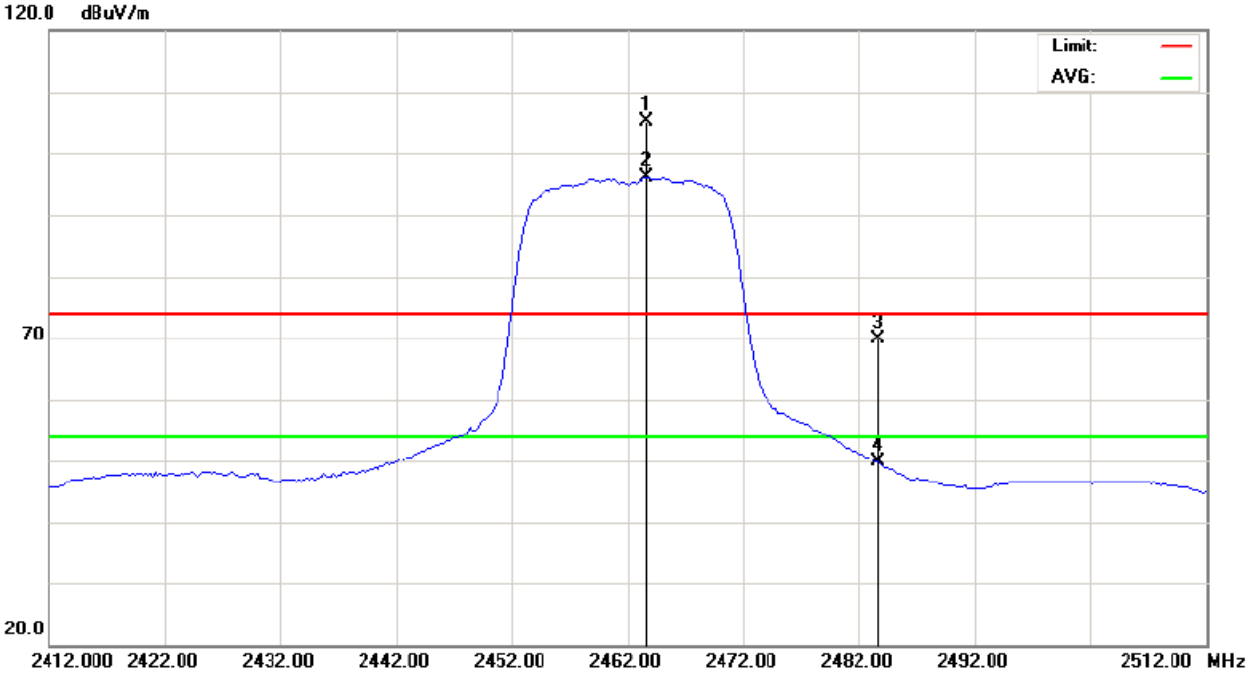
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

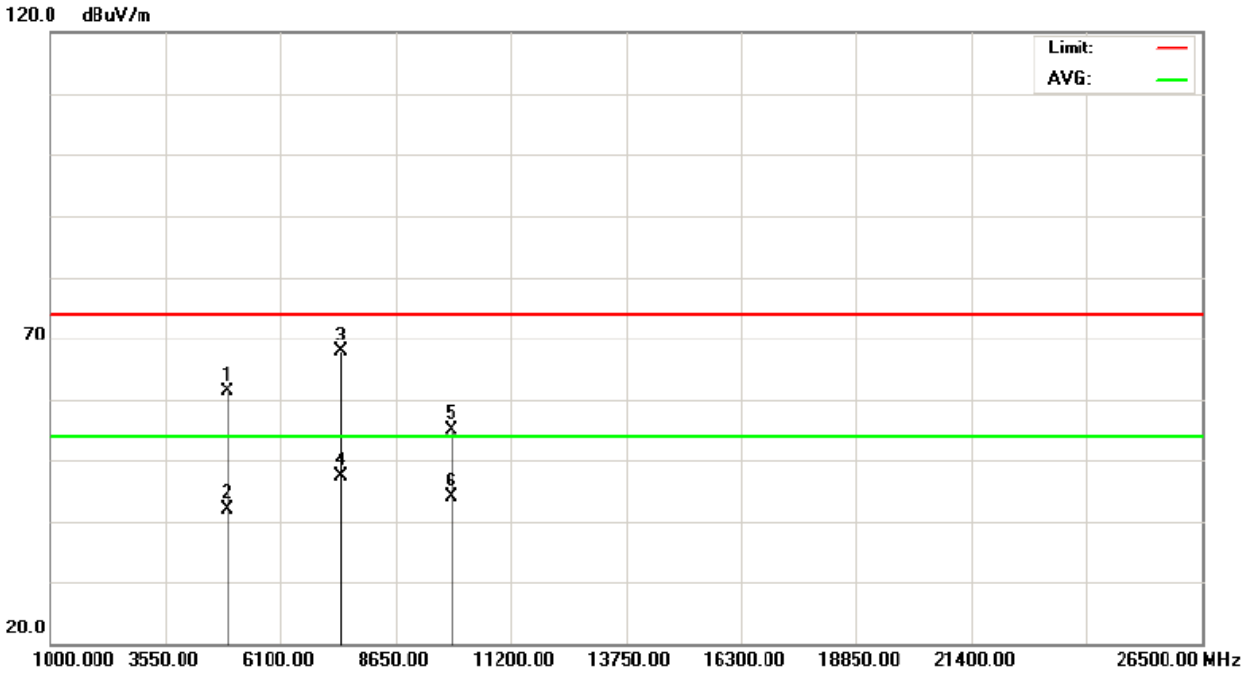
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	36.51	21.14	31.93	68.44	53.07	74.00	54.00	X/H
2428.40	V	76.28	66.82	32.07	108.35	98.89			X/F
4836.40	V	62.47	49.87	3.79	66.26	53.66	74.00	54.00	X/H
7270.20	V	49.51	36.88	9.08	58.59	45.96	74.00	54.00	X/H
9686.00	V	45.39	32.60	12.02	57.41	44.62	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 。

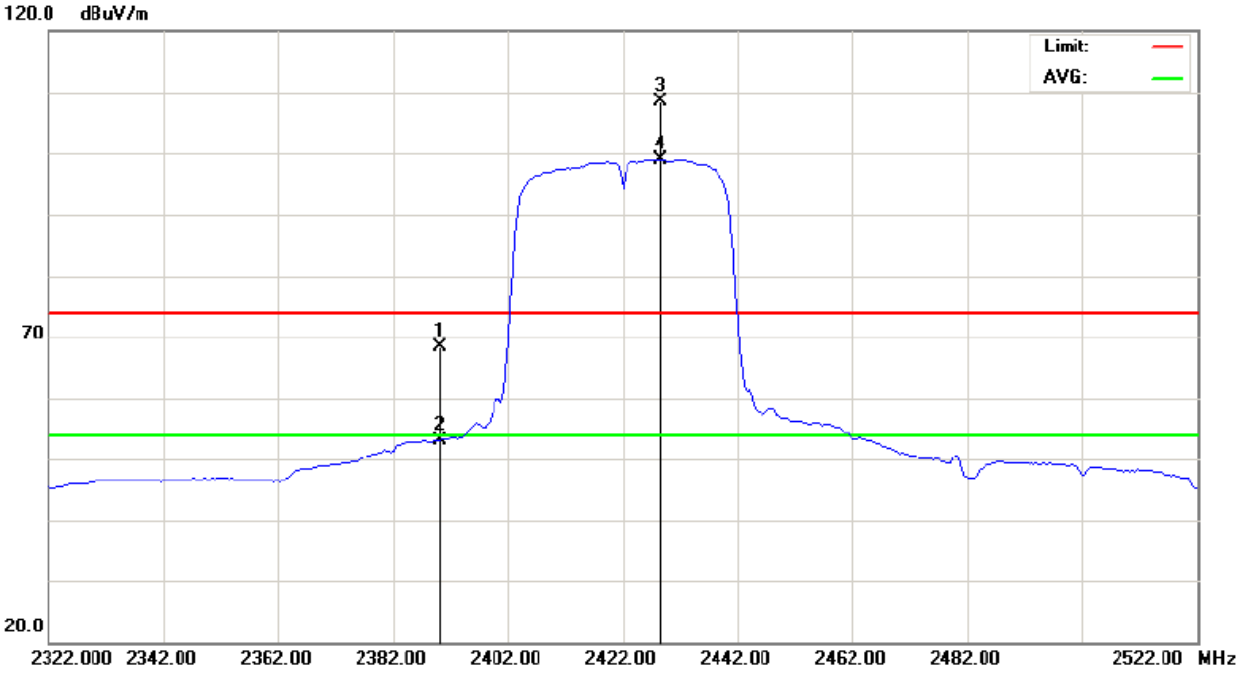
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

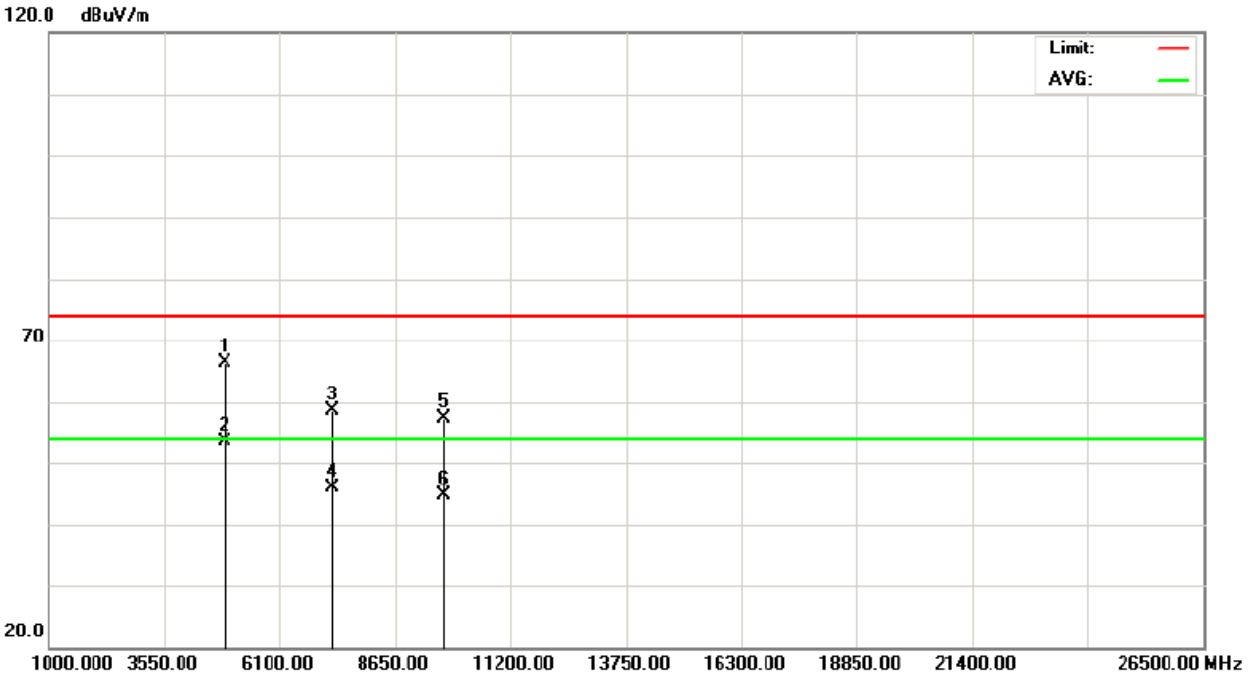
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	26.01	15.26	31.93	57.94	47.19	74.00	54.00	X/H
2418.00	H	65.87	56.82	32.03	97.90	88.85			X/F
4848.80	H	55.13	40.89	3.83	58.96	44.72	74.00	54.00	X/H
7263.80	H	43.61	31.72	9.07	52.68	40.79	74.00	54.00	X/H
9687.20	H	44.75	32.24	12.02	56.77	44.26	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 。

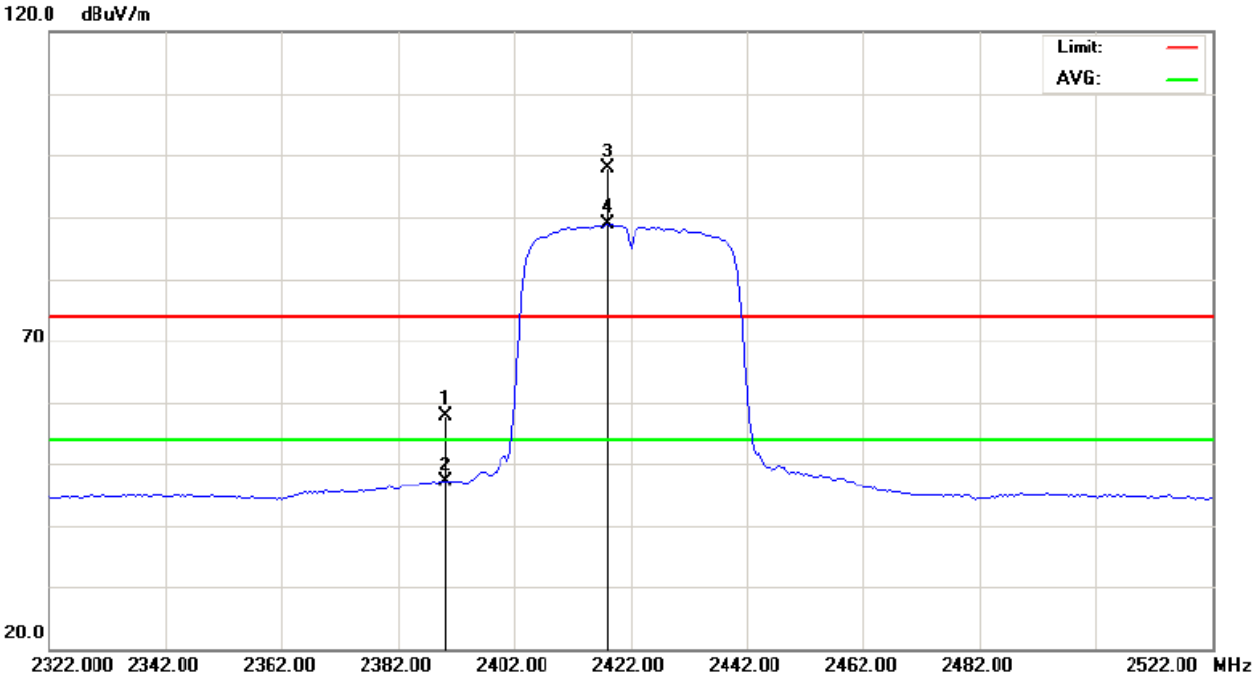
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

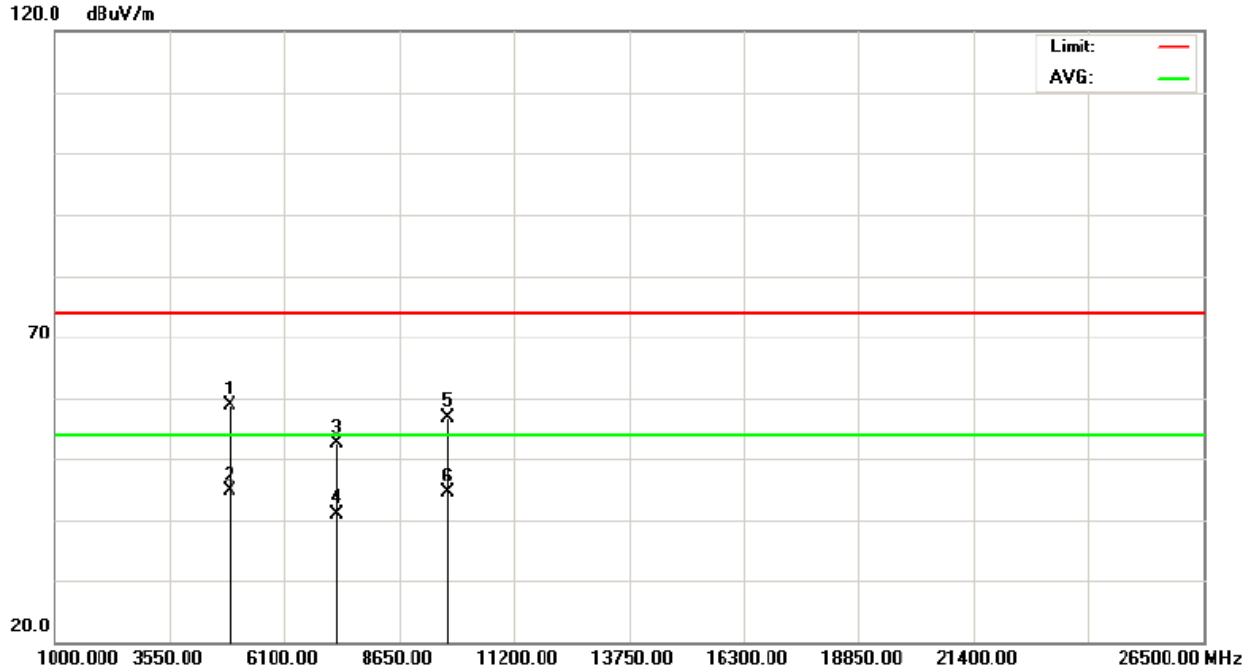
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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
802.11n/40M/CH03 (Above 1000 MHz, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2435.40	V	78.45	67.91	32.10	110.55	100.01			X/F
4869.36	V	61.79	49.51	3.89	65.68	53.40	74.00	54.00	X/H
7305.60	V	50.24	37.92	9.13	59.37	47.05	74.00	54.00	X/H
9748.00	V	45.80	32.24	12.11	57.91	44.35	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 。

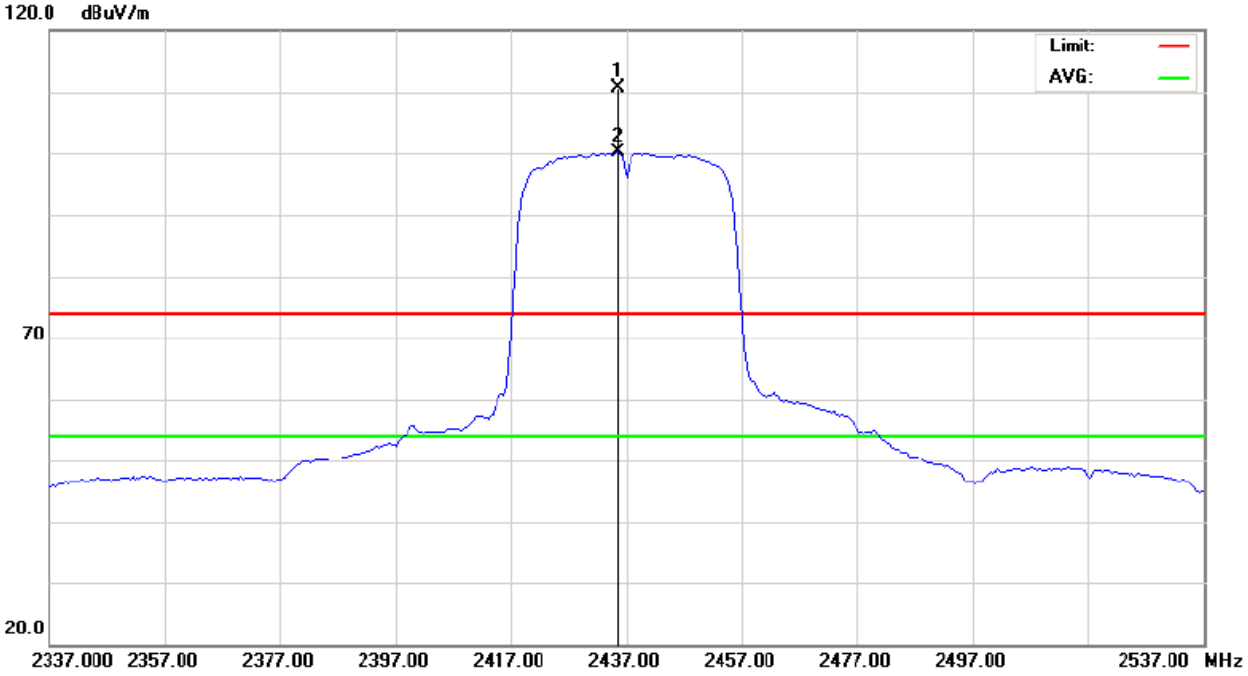
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

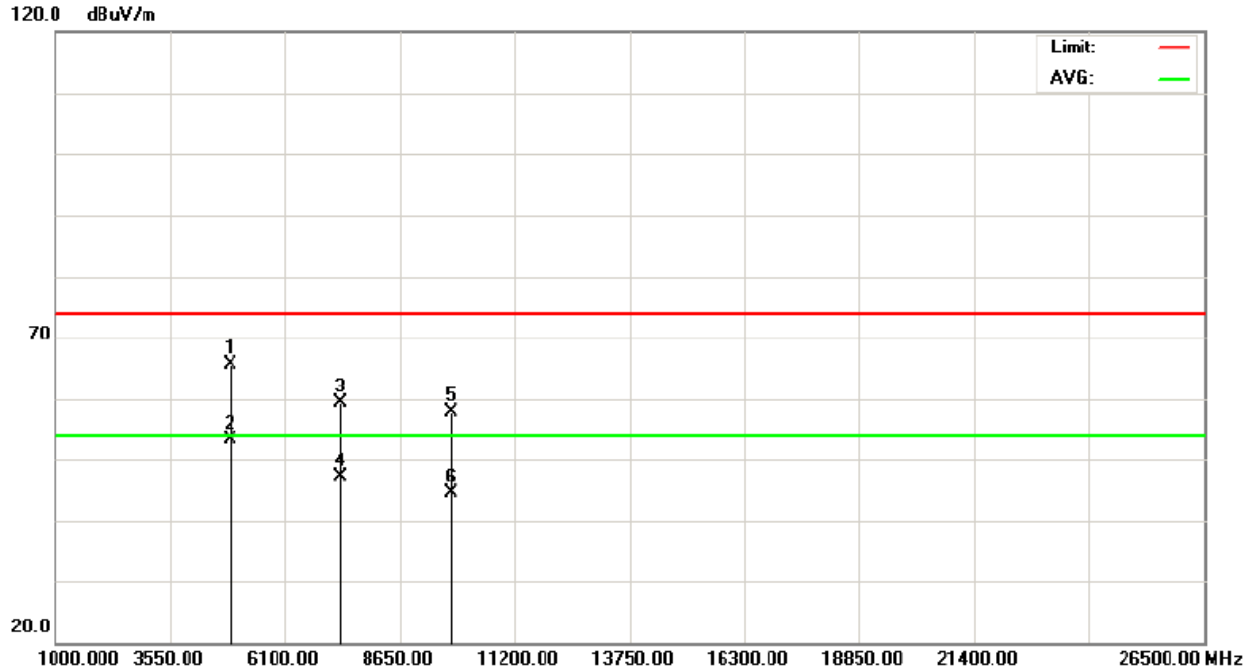
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH06		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2438.60	H	67.08	57.76	32.11	99.19	89.87			X/F
4869.80	H	55.66	41.96	3.89	59.55	45.85	74.00	54.00	X/H
7310.88	H	46.58	34.13	9.14	55.72	43.27	74.00	54.00	X/H
9747.80	H	44.96	32.35	12.11	57.07	44.46	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 。

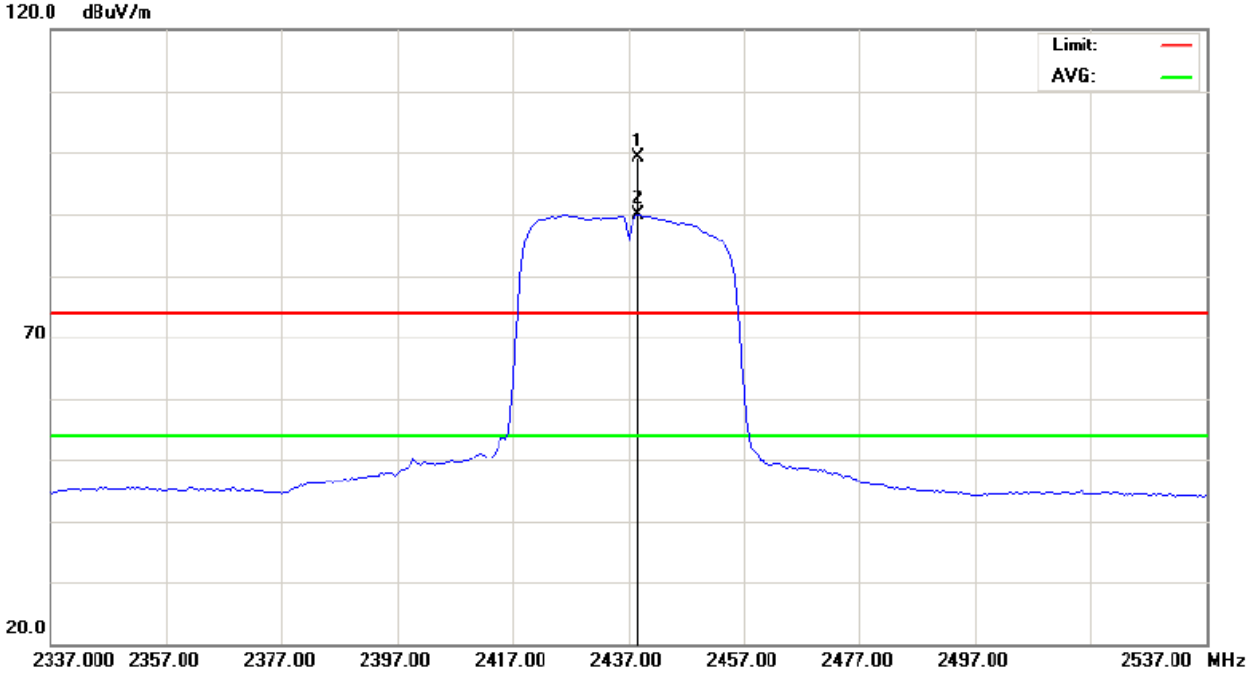
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

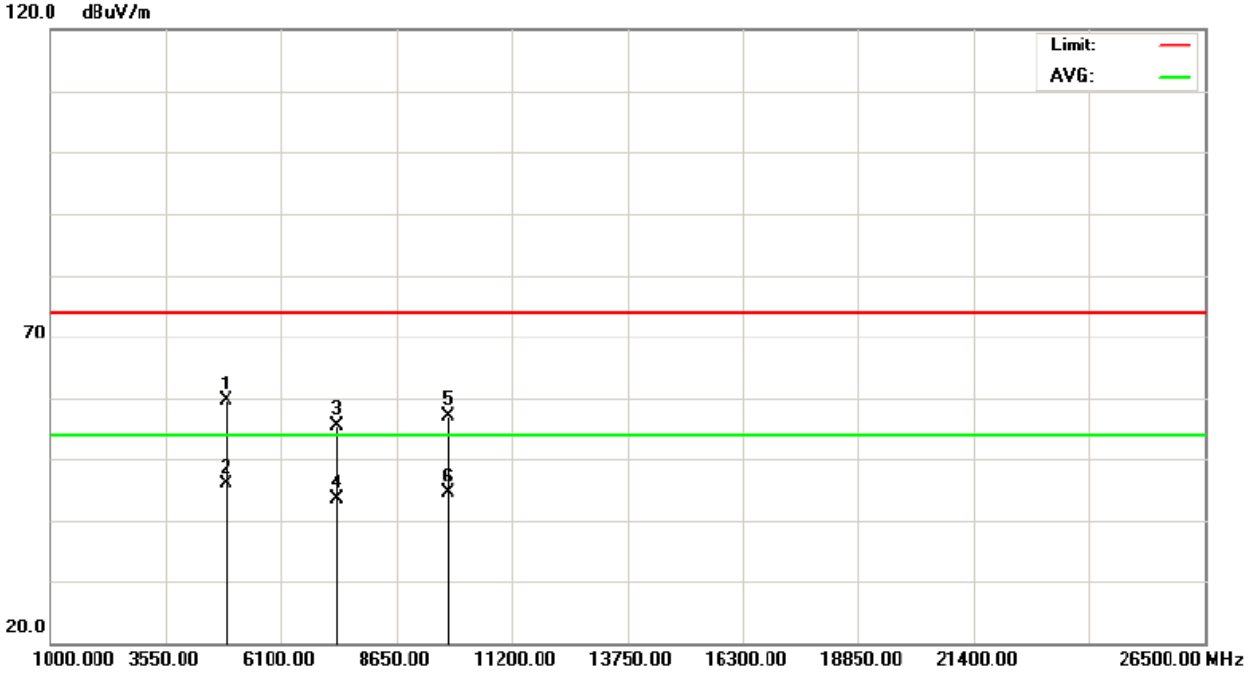
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH09		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2449.20	V	75.67	65.92	32.15	107.82	98.07			X/F
2483.50	V	35.84	21.28	32.29	68.13	53.57	74.00	54.00	X/H
4899.60	V	57.14	45.38	3.98	61.12	49.36	74.00	54.00	X/H
7349.20	V	51.15	37.72	9.21	60.36	46.93	74.00	54.00	X/H
9808.12	V	46.50	32.44	12.20	58.70	44.64	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 。

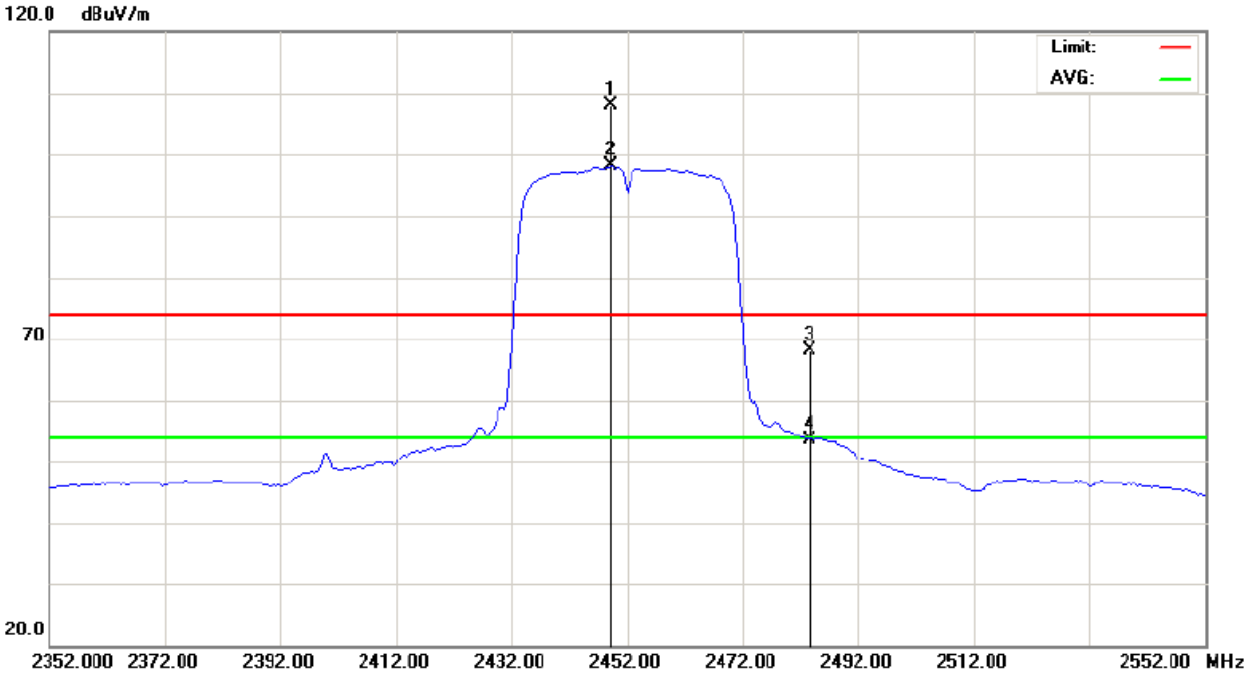
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

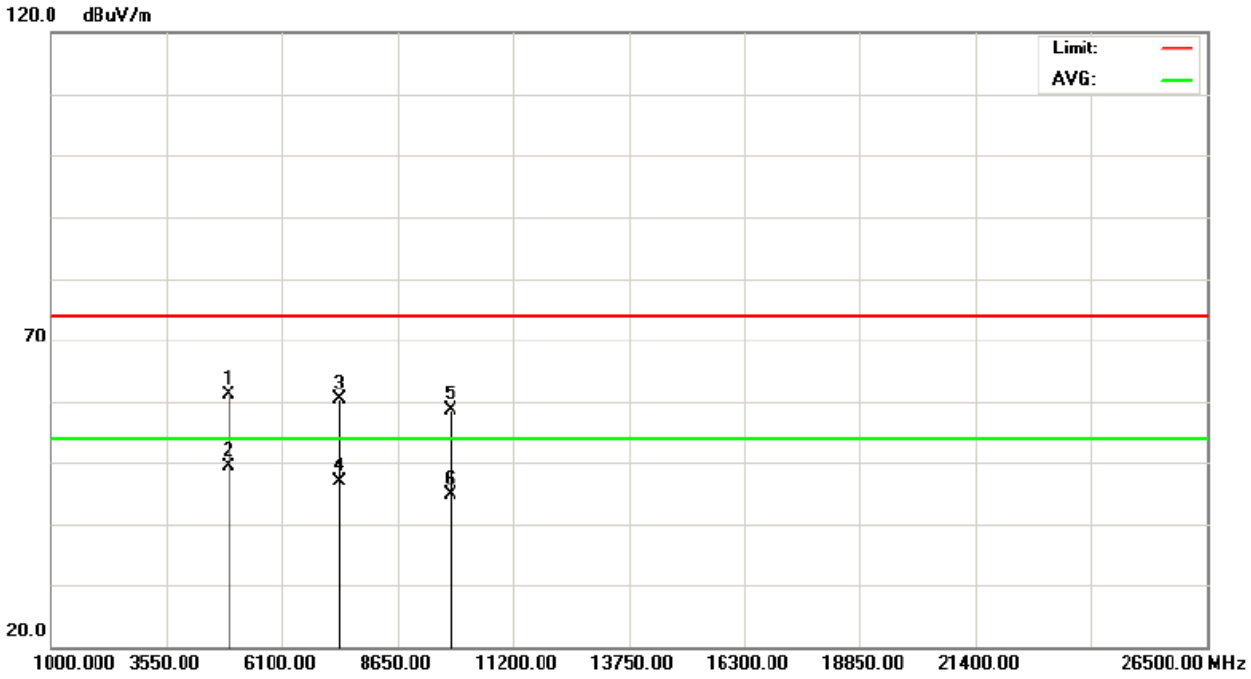
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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 (Above 1000 MHz, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH09		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.80	H	65.24	56.47	32.12	97.36	88.59			X/F
2483.50	H	29.71	14.69	32.29	62.00	46.98	74.00	54.00	X/H
4899.80	H	53.38	41.04	3.99	57.37	45.03	74.00	54.00	X/H
7364.00	H	45.37	32.68	9.23	54.60	41.91	74.00	54.00	X/H
9807.80	H	44.59	32.13	12.20	56.79	44.33	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 。

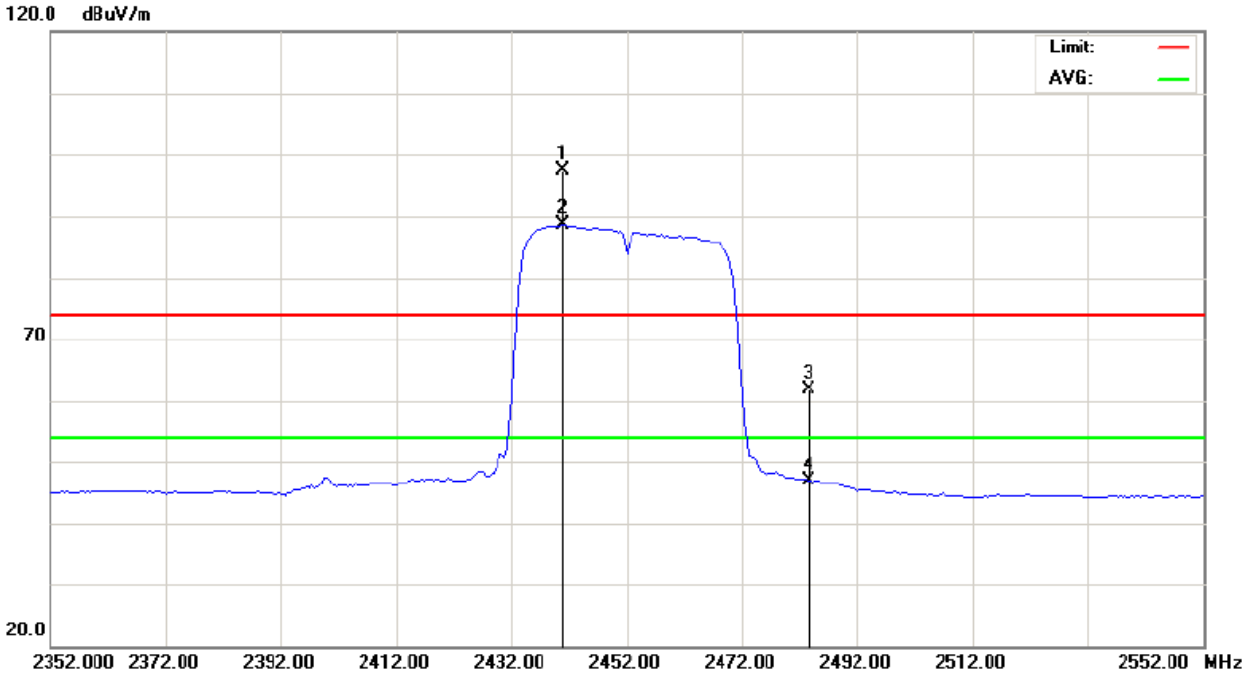
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

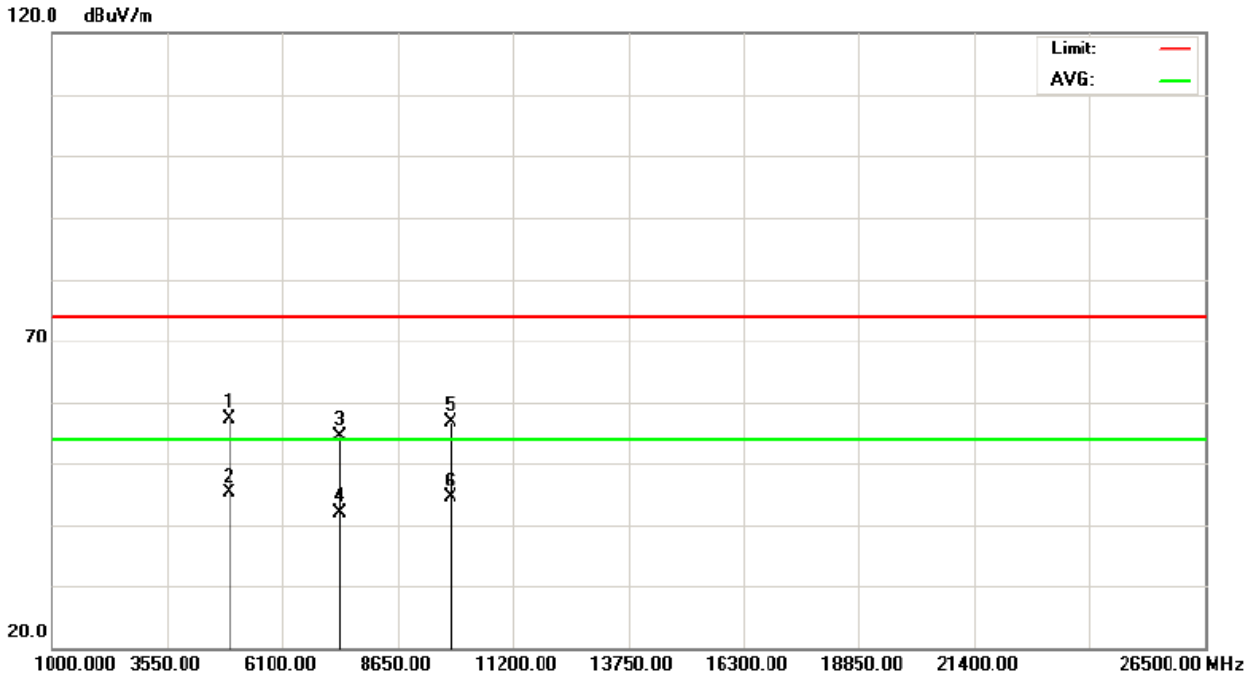
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(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/40M/CH09 (Above 1000 MHz, Horizontal)





4.2.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b(Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2371.00	V	26.63	17.55	31.85	58.48	49.40	74.00	54.00	X
2483.50	V	22.61	12.37	32.29	54.90	44.66	74.00	54.00	X

Remark：

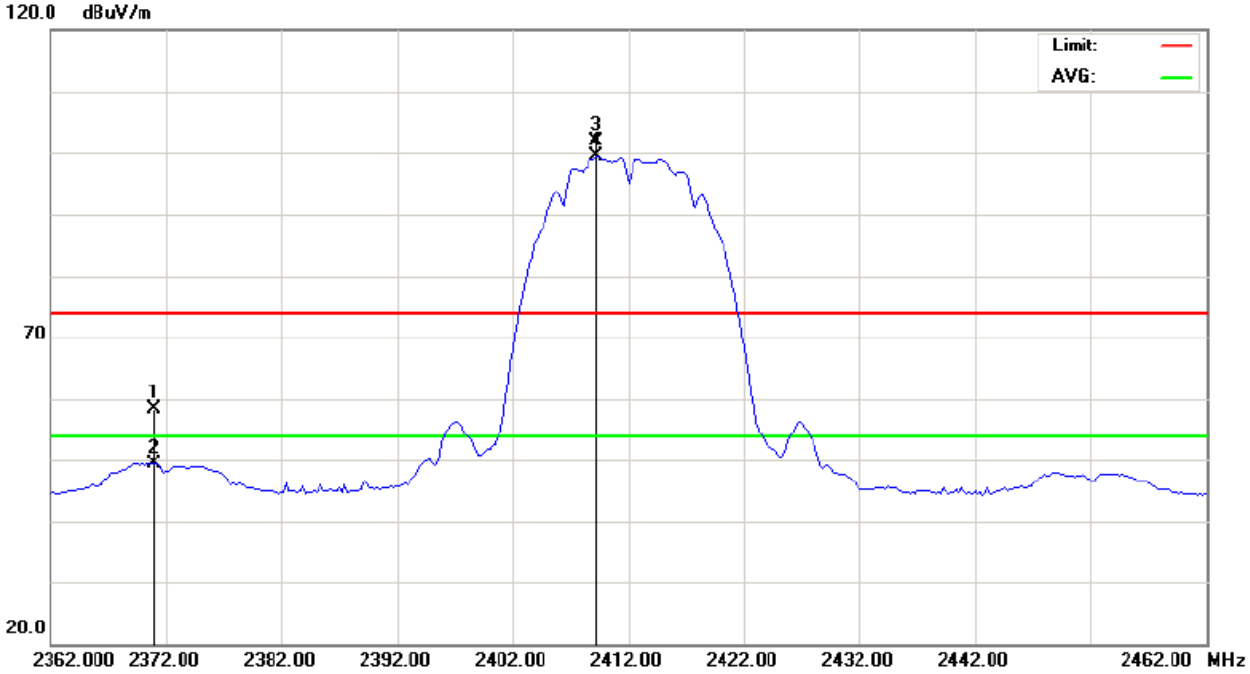
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

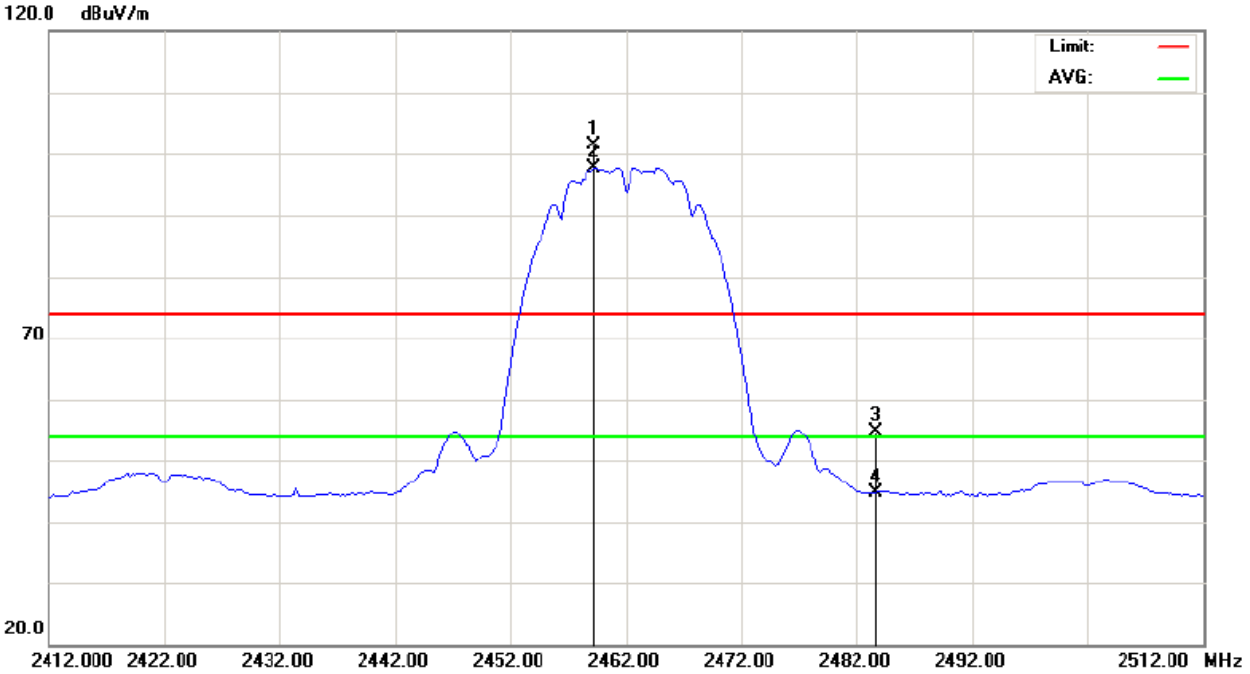
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11b (Restricted Bands Requirements, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11b(Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2370.40	H	23.80	14.20	31.85	55.65	46.05	74.00	54.00	X
2483.50	H	20.34	11.96	32.29	52.63	44.25	74.00	54.00	X

Remark：

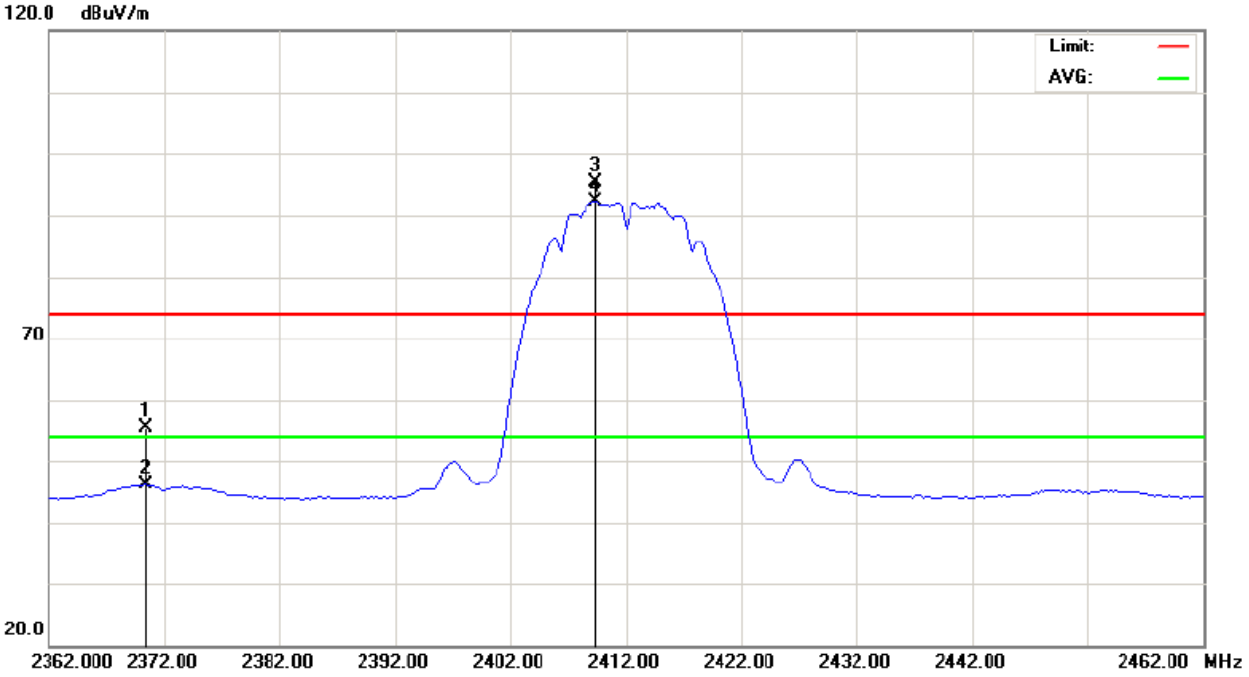
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

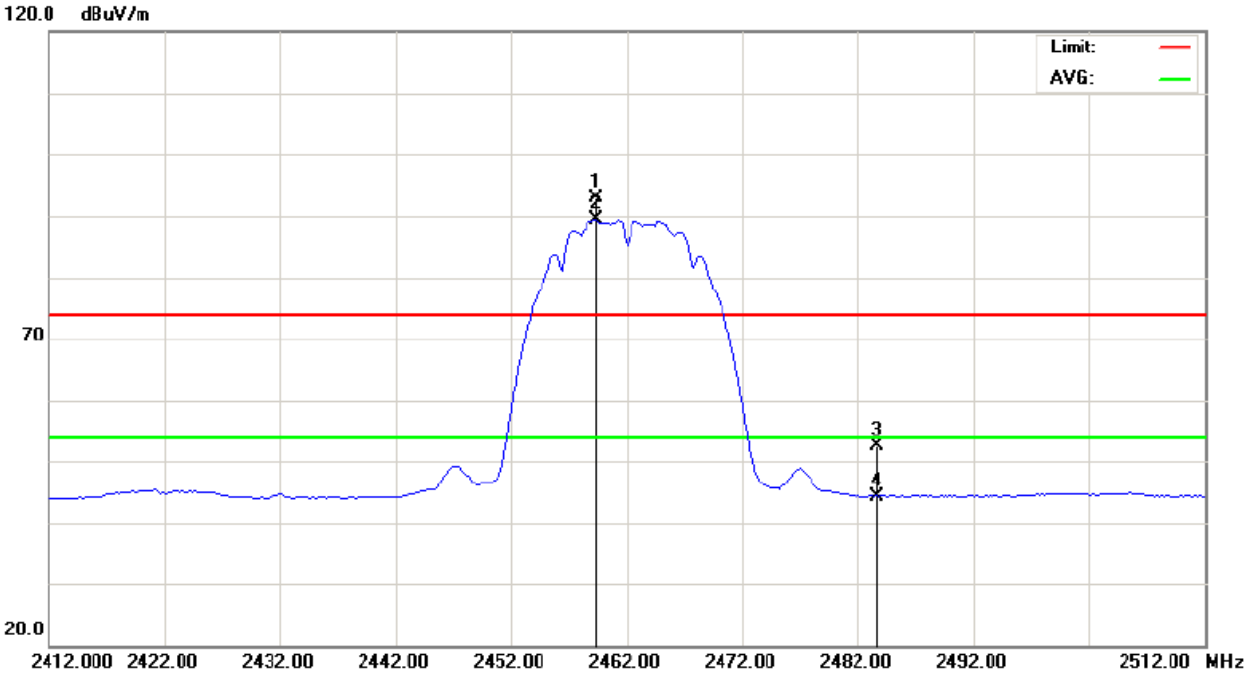
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11b (Restricted Bands Requirements, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g(Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	35.47	21.22	31.93	67.40	53.15	74.00	54.00	X
2483.50	V	36.61	19.14	32.29	68.90	51.43	74.00	54.00	X

Remark：

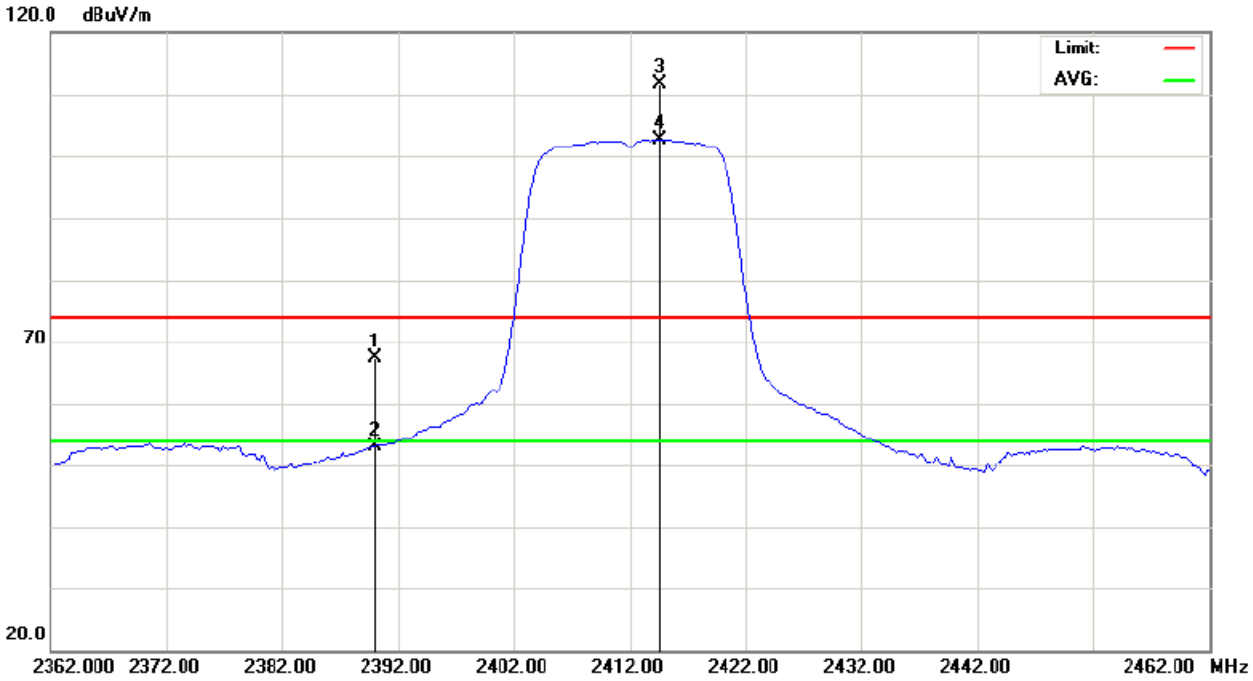
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

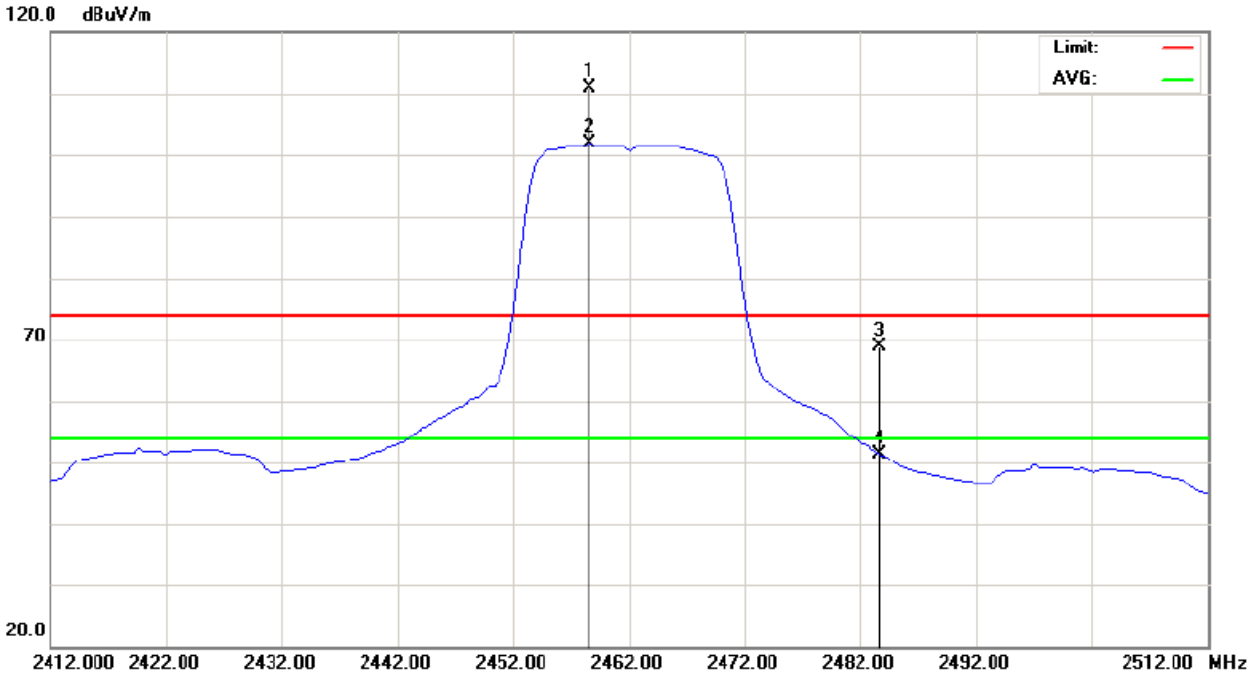
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11g (Restricted Bands Requirements, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11g(Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	29.08	16.22	31.93	61.01	48.15	74.00	54.00	X
2483.50	H	33.26	15.89	32.29	65.55	48.18	74.00	54.00	X

Remark：

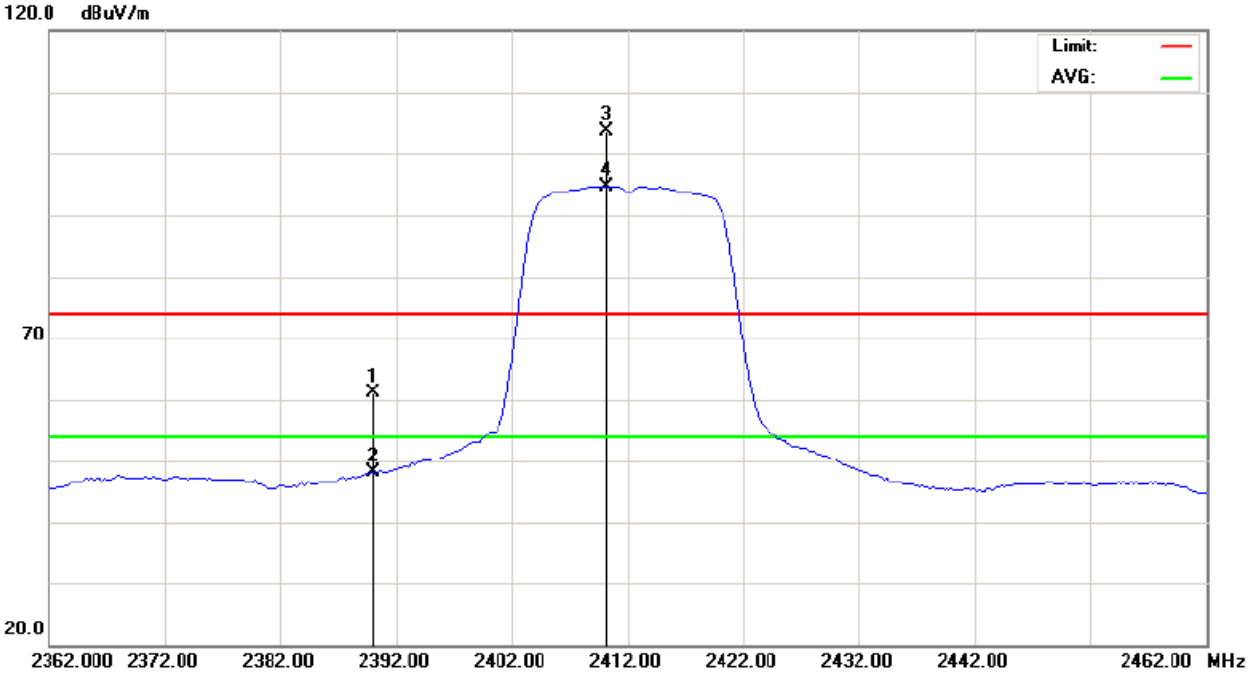
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

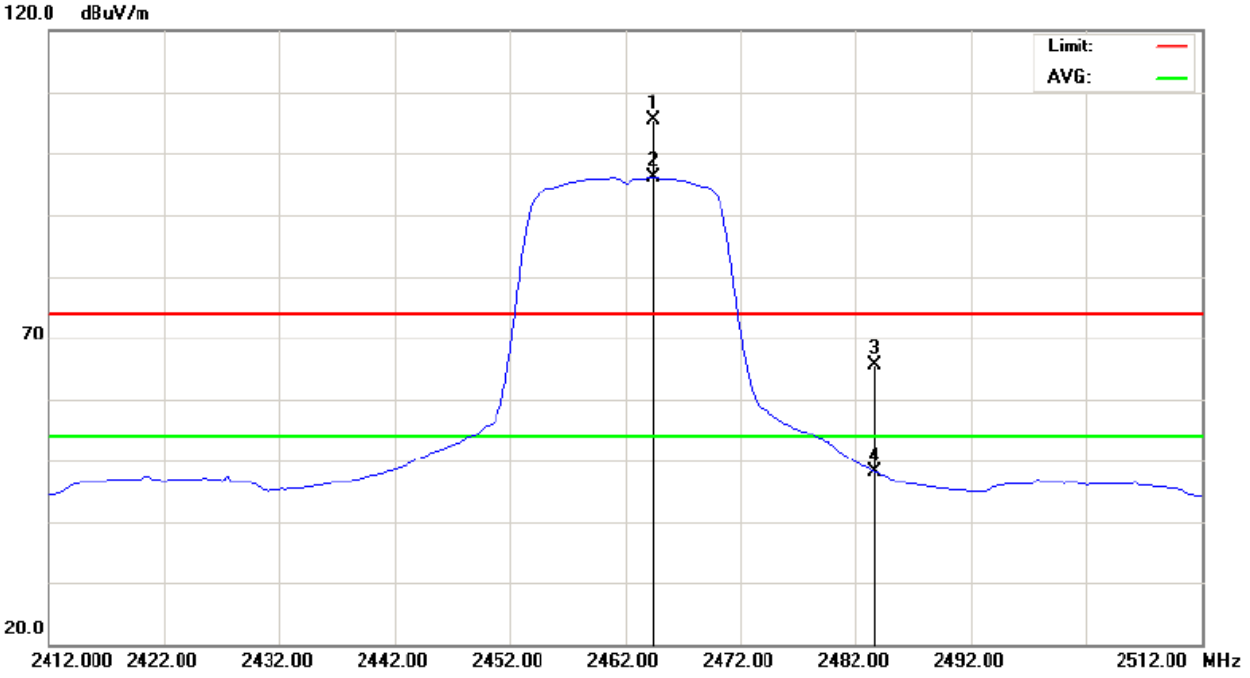
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11g (Restricted Bands Requirements, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2374.60	V	26.78	18.43	31.87	58.65	50.30	74.00	54.00	X
2483.50	V	41.12	20.76	32.29	73.41	53.05	74.00	54.00	X

Remark：

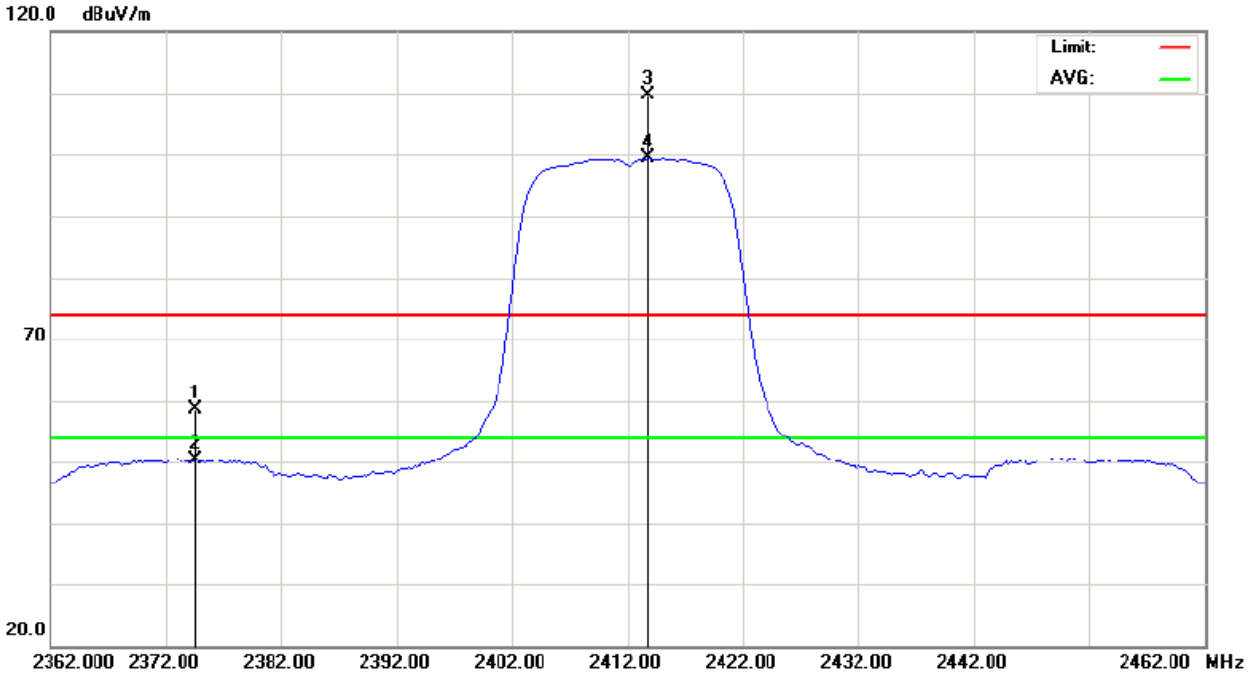
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

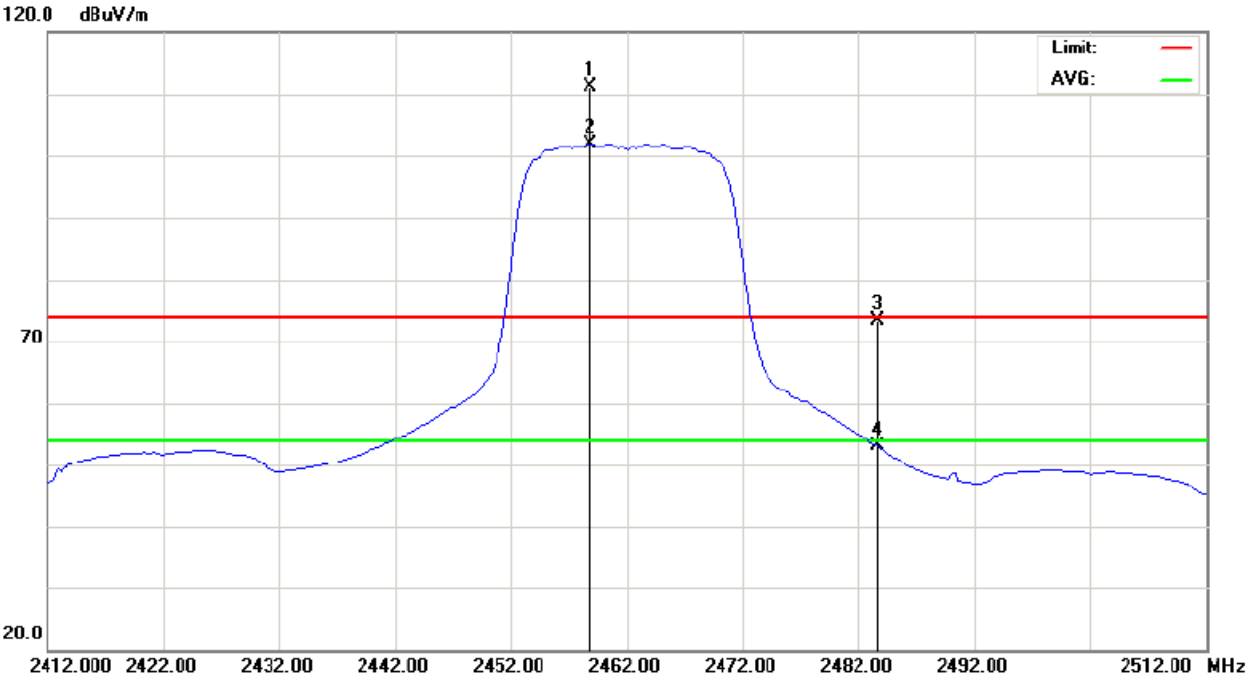
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11n/20M (Restricted Bands Requirements, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/20M (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2372.20	H	21.30	13.54	32.86	54.16	46.40	74.00	54.00	X
2483.50	H	37.55	17.55	32.29	69.84	49.84	74.00	54.00	X

Remark：

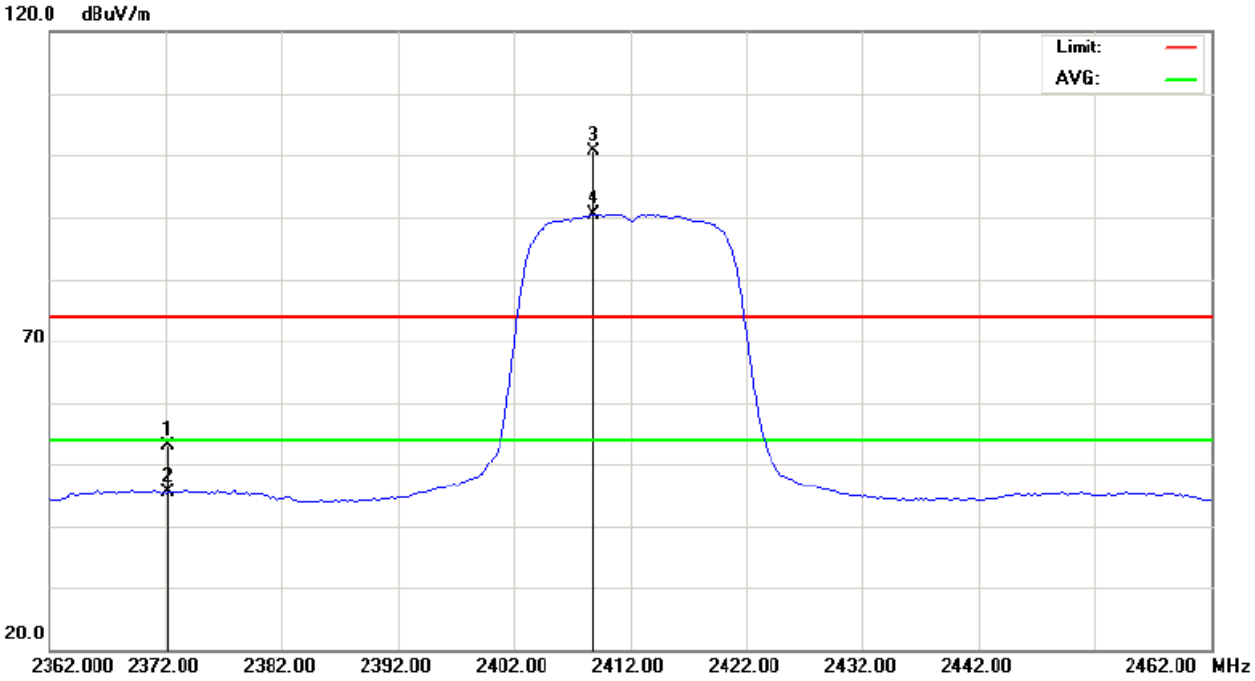
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

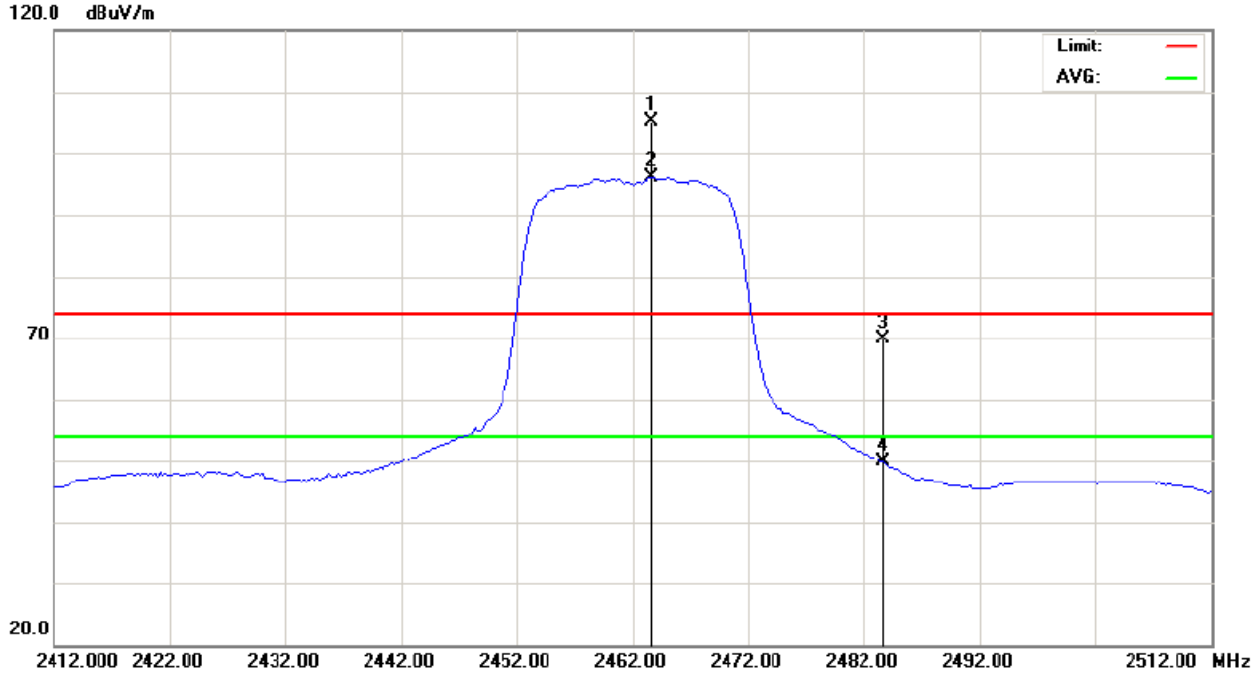
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11n/20M (Restricted Bands Requirements, Horizontal)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M (Vertical)		
Note：	The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	36.51	21.14	31.93	68.44	53.07	74.00	54.00	X
2483.50	V	35.84	21.28	32.29	68.13	53.57	74.00	54.00	X

Remark：

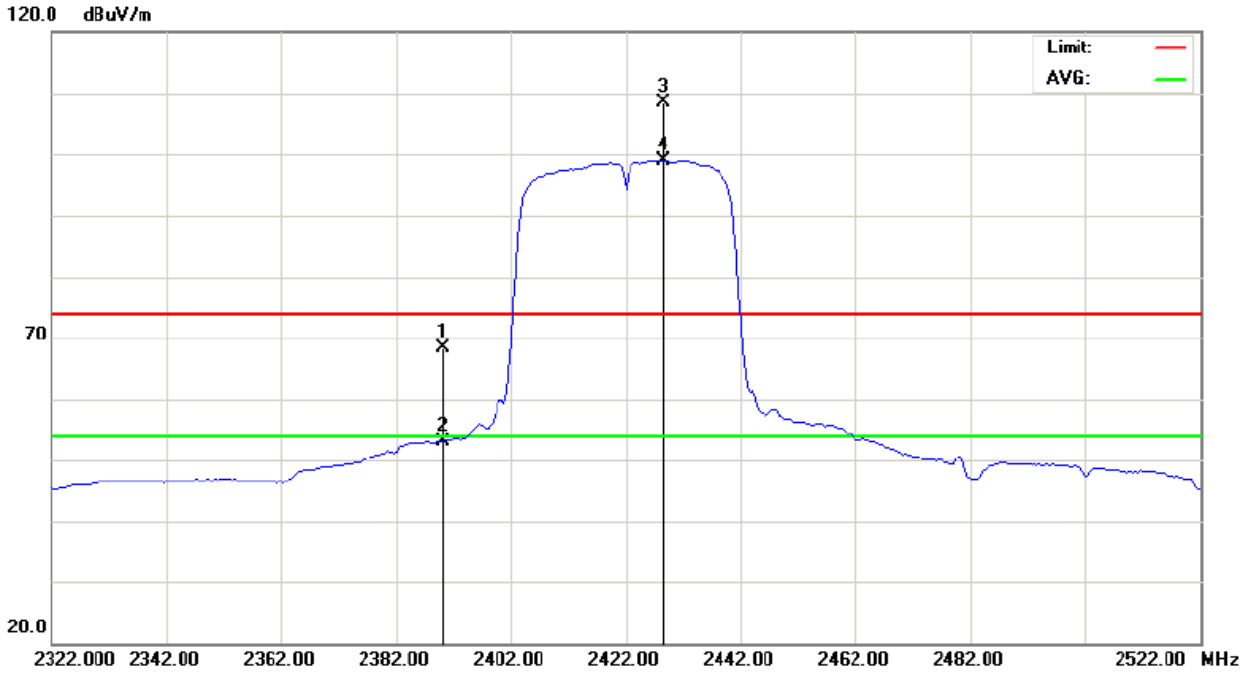
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

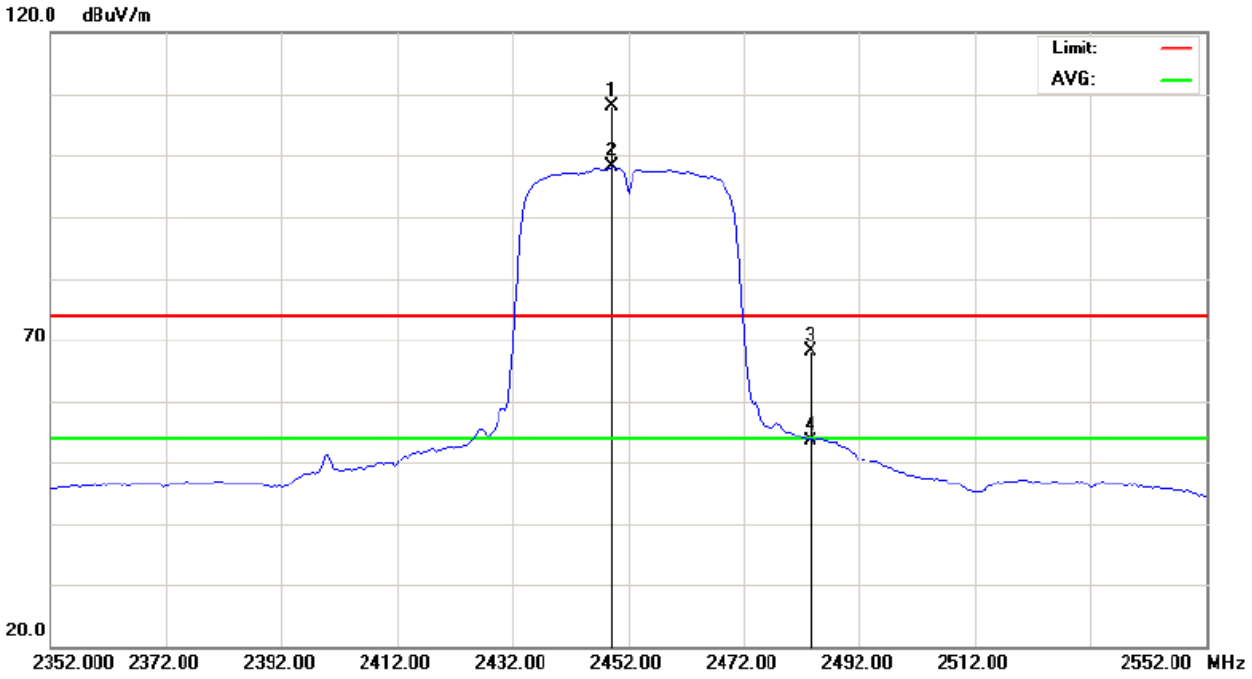
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11n/40M (Restricted Bands Requirements, Vertical)





EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	22°C	Relative Humidity :	43%
Test Voltage :	AC 120V/60Hz		
Test Mode ：	802.11n/40M (Horizontal)		
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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. 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.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	26.01	15.26	31.93	57.94	47.19	74.00	54.00	X
2483.50	H	29.71	14.69	32.29	62.00	46.98	74.00	54.00	X

Remark：

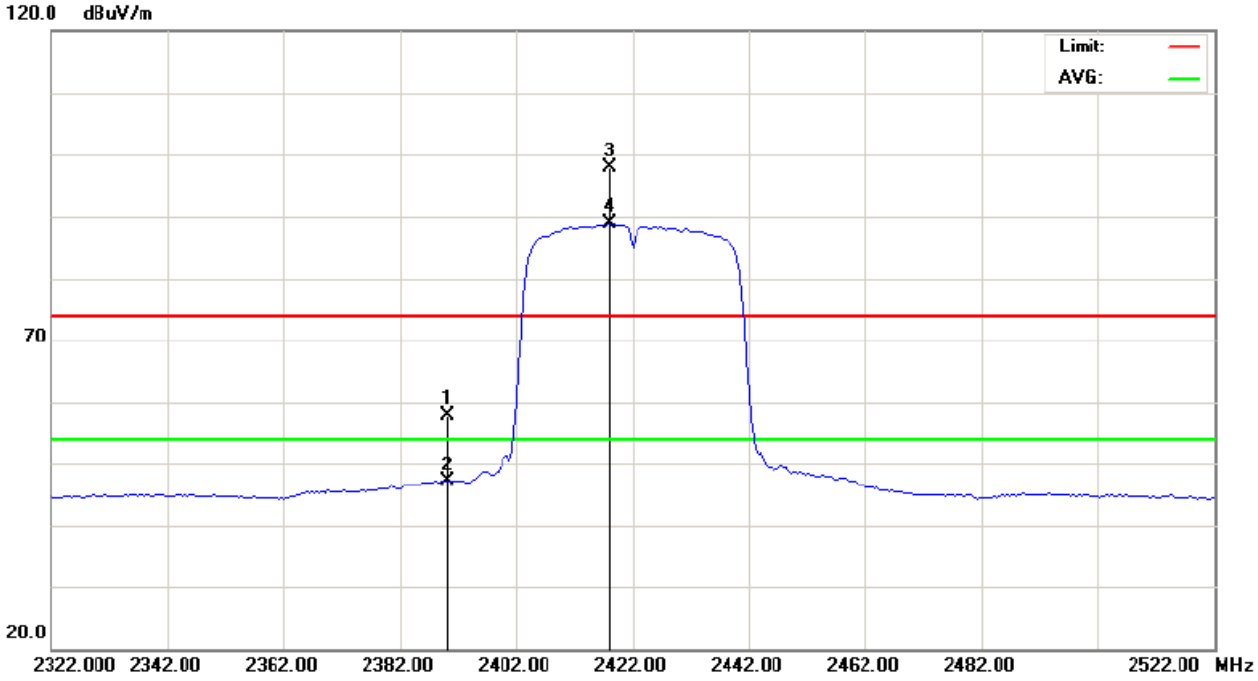
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

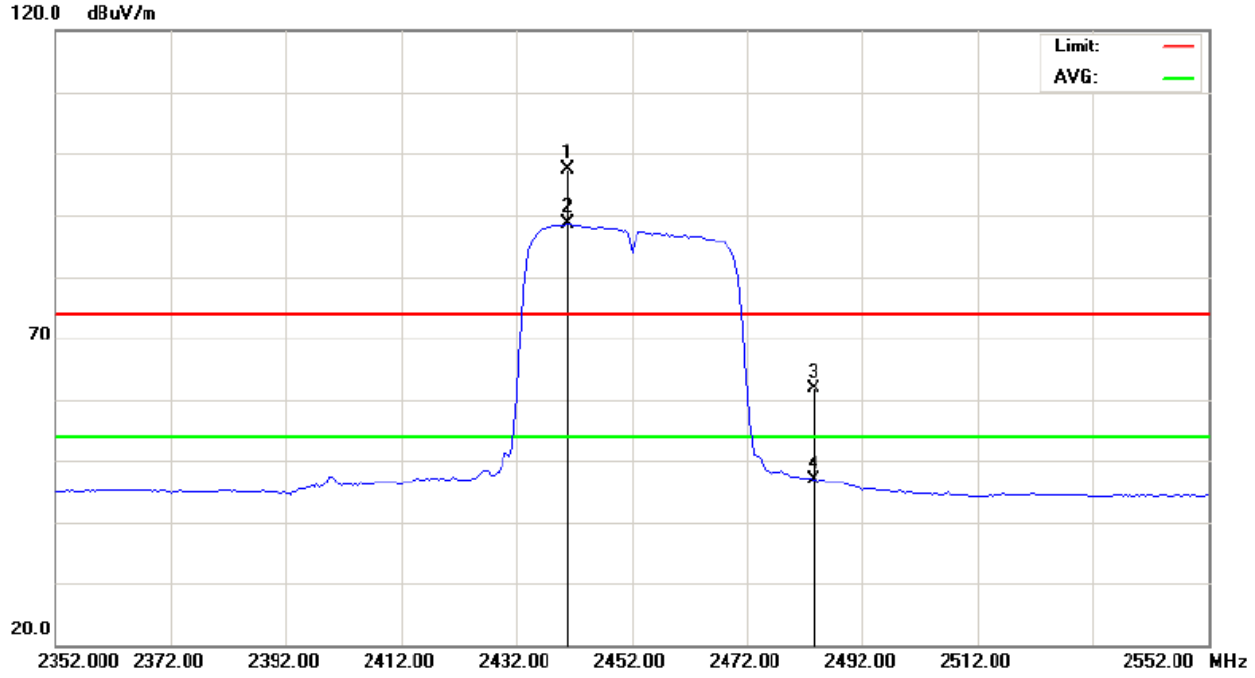
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11n/40M (Restricted Bands Requirements, Horizontal)





5. BANDWITH TEST

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 10, 2010

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

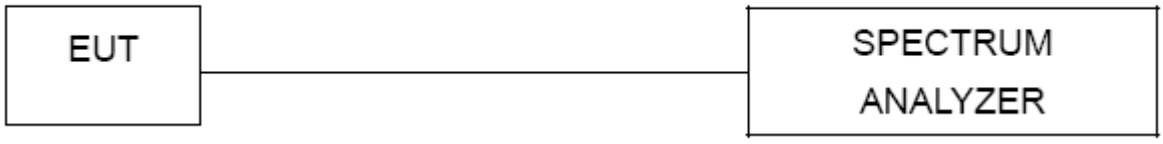
5.1.2 TEST PROCEDURE

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

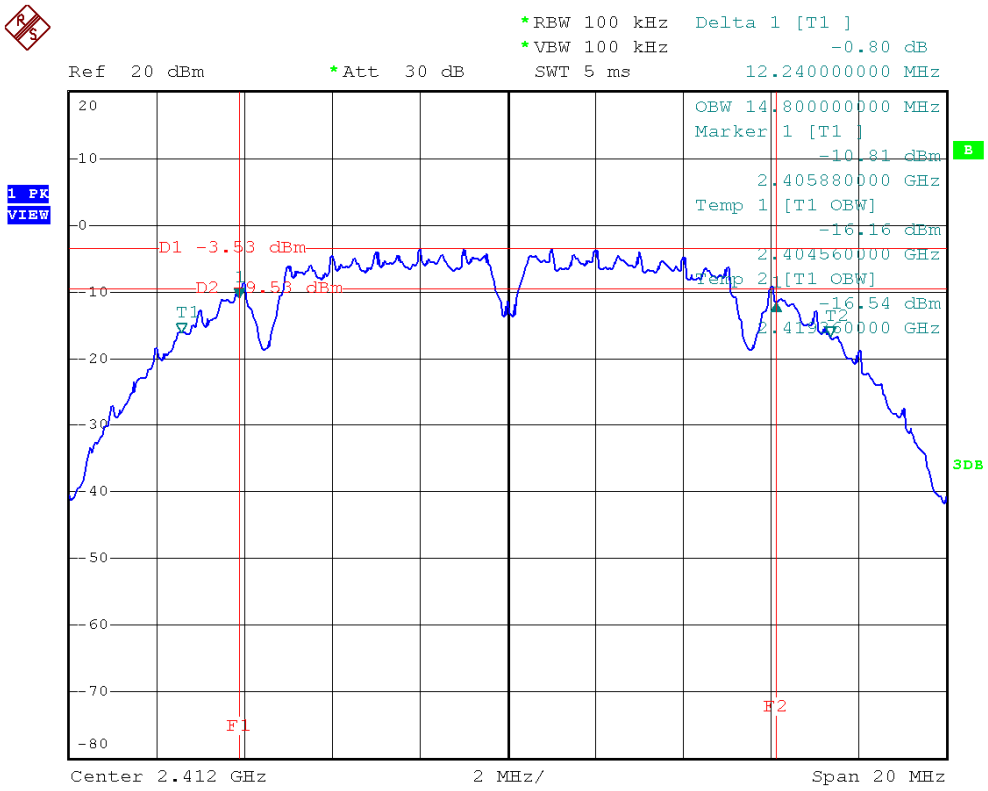
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.6 TEST RESULTS

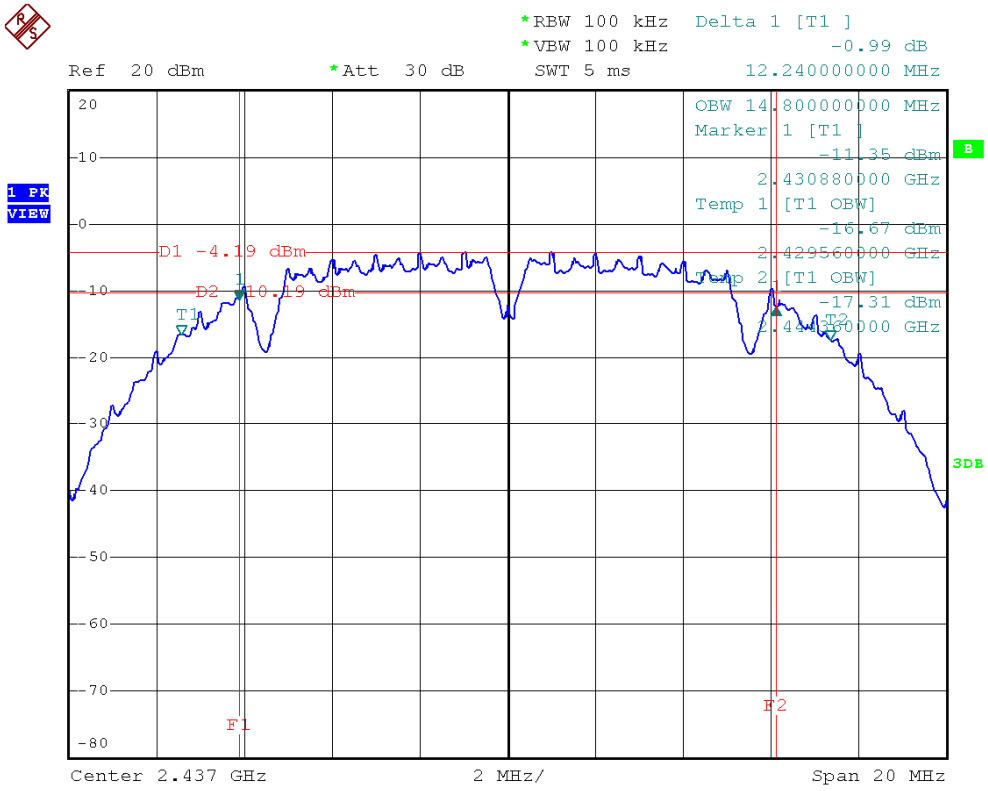
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	12.24	>=500KHz
CH06	2437	12.24	>=500KHz
CH11	2462	12.16	>=500KHz

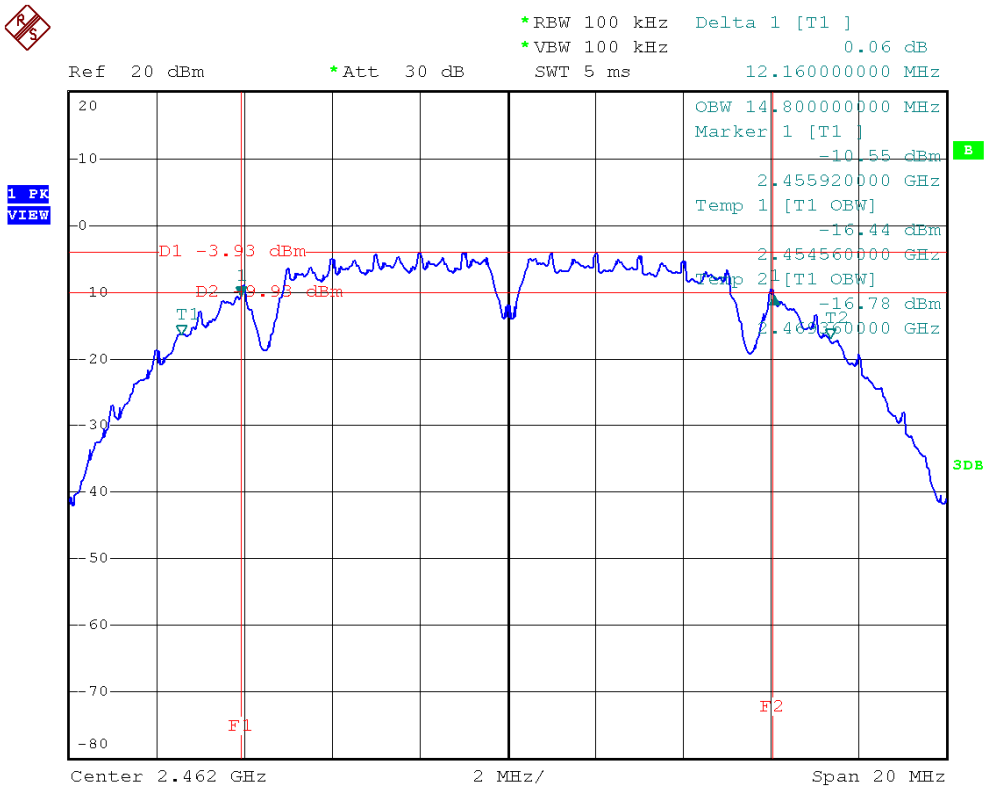
CH01



CH06


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-0.99 dB
12.240000000 MHz
Ref 20 dBm
*Att 30 dB
OBW 14.800000000 MHz
Marker 1 [T1]
-11.35 dBm
2.430880000 GHz
Temp 1 [T1 OBW]
-16.67 dBm
2.429560000 GHz
Temp 2 [T1 OBW]
-17.31 dBm
2.444560000 GHz
1 PK VIEW
D1 -4.19 dBm
D2 -10.19 dBm
T1
T2
F1
F2
3DB
Center 2.437 GHz
2 MHz/
Span 20 MHz

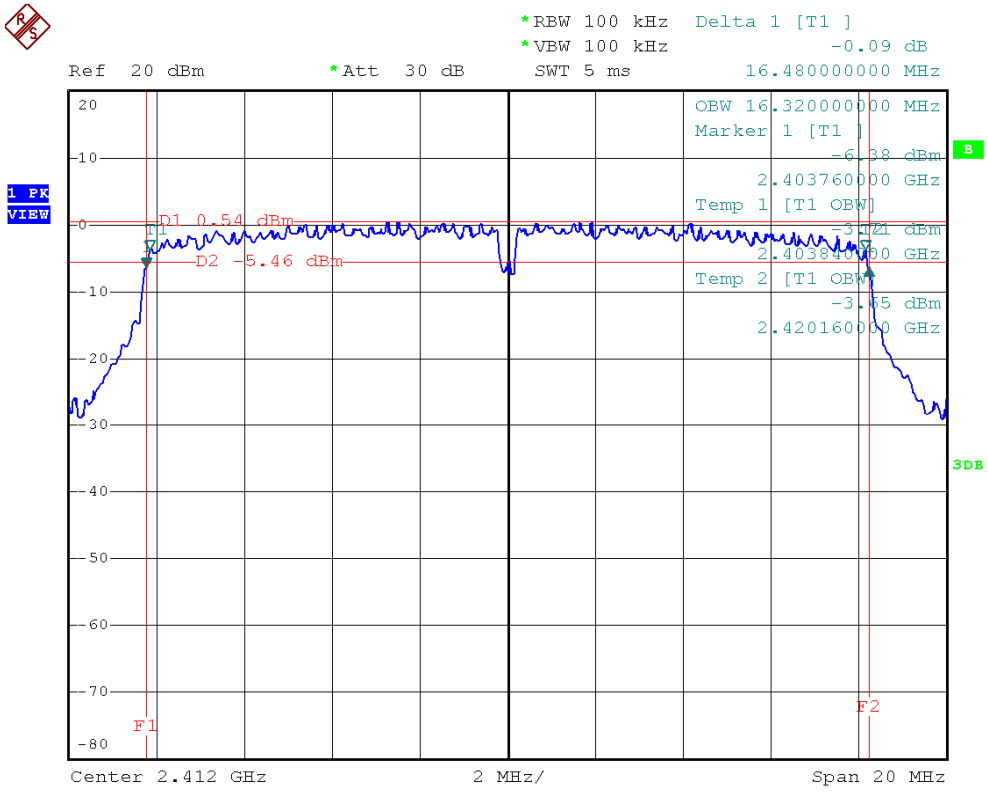
CH11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.06 dB
12.160000000 MHz
Ref 20 dBm
*Att 30 dB
OBW 14.800000000 MHz
Marker 1 [T1]
-10.55 dBm
2.455920000 GHz
Temp 1 [T1 OBW]
-16.44 dBm
2.454560000 GHz
Temp 2 [T1 OBW]
-16.78 dBm
2.469560000 GHz
1 PK VIEW
D1 -3.93 dBm
D2 -9.93 dBm
T1
T2
F1
F2
3DB
Center 2.462 GHz
2 MHz/
Span 20 MHz

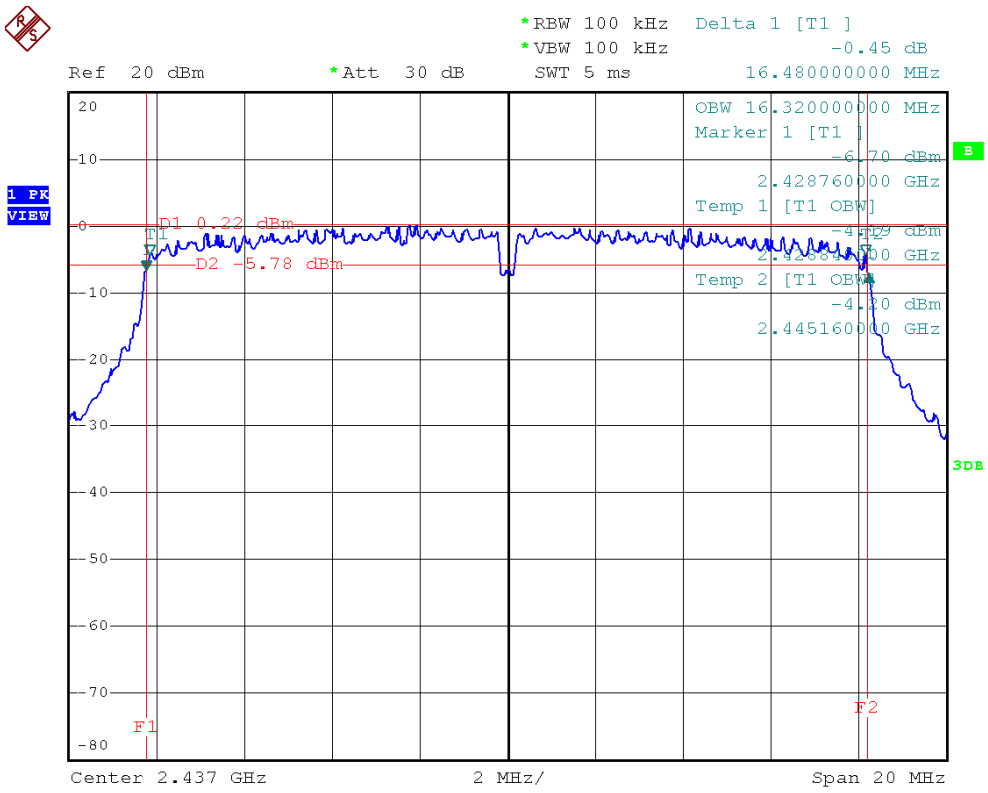
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.48	>=500KHz
CH06	2437	16.48	>=500KHz
CH11	2462	16.48	>=500KHz

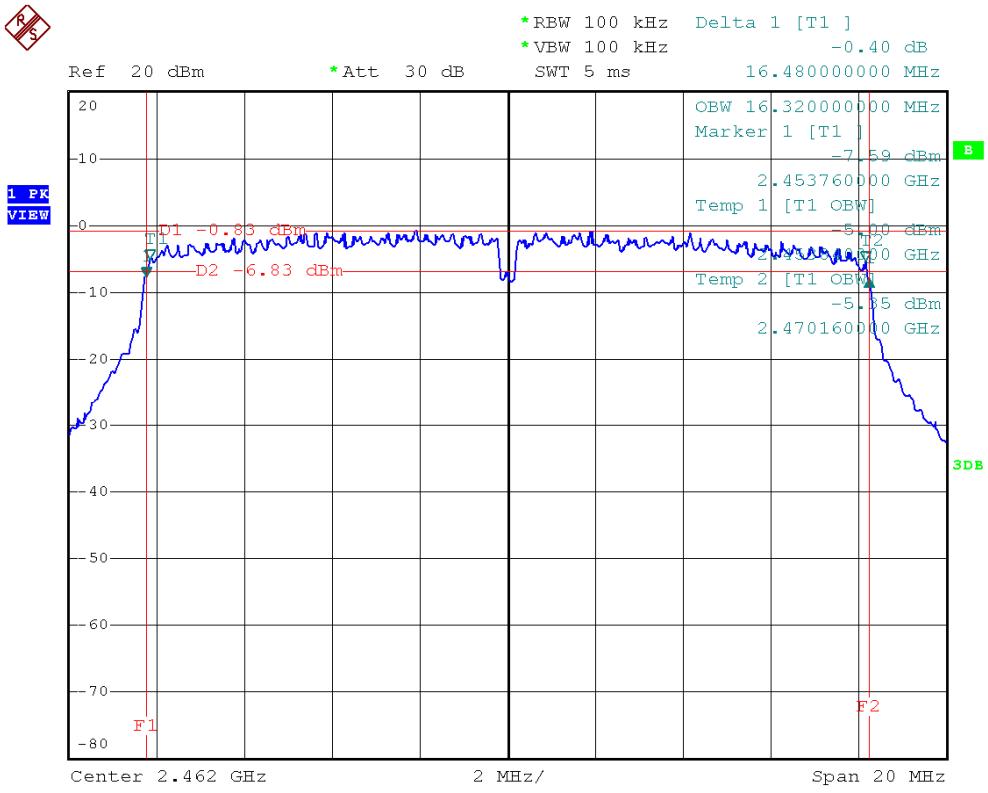
CH01



CH06


*RBW 100 kHz
*VBW 100 kHz
Delta 1 [T1]
-0.45 dB
Ref 20 dBm
*Att 30 dB
SWT 5 ms
16.480000000 MHz
OBW 16.320000000 MHz
Marker 1 [T1]
-6.70 dBm
2.428760000 GHz
Temp 1 [T1 OBW]
-4.29 dBm
Temp 2 [T1 OBW]
-4.20 dBm
D1 0.22 dBm
D2 -5.78 dBm
1 PK VIEW
3DB
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

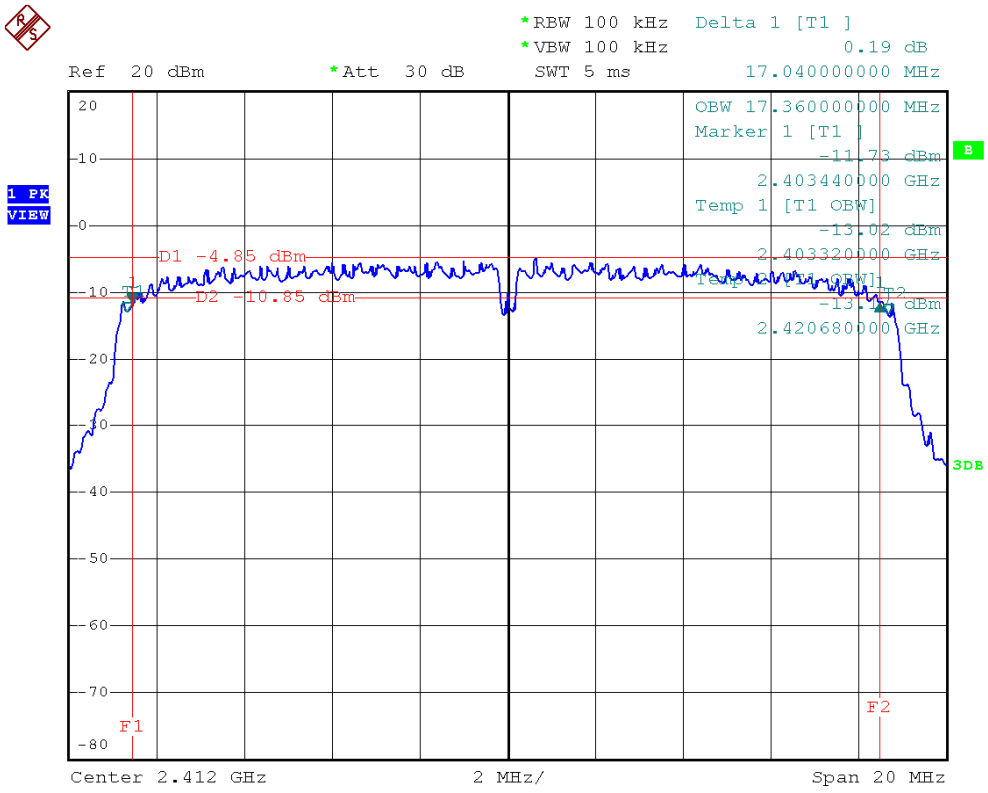
CH11


*RBW 100 kHz
*VBW 100 kHz
Delta 1 [T1]
-0.40 dB
Ref 20 dBm
*Att 30 dB
SWT 5 ms
16.480000000 MHz
OBW 16.320000000 MHz
Marker 1 [T1]
-7.59 dBm
2.453760000 GHz
Temp 1 [T1 OBW]
Temp 2 [T1 OBW]
-5.85 dBm
D1 -0.83 dBm
D2 -6.83 dBm
1 PK VIEW
3DB
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

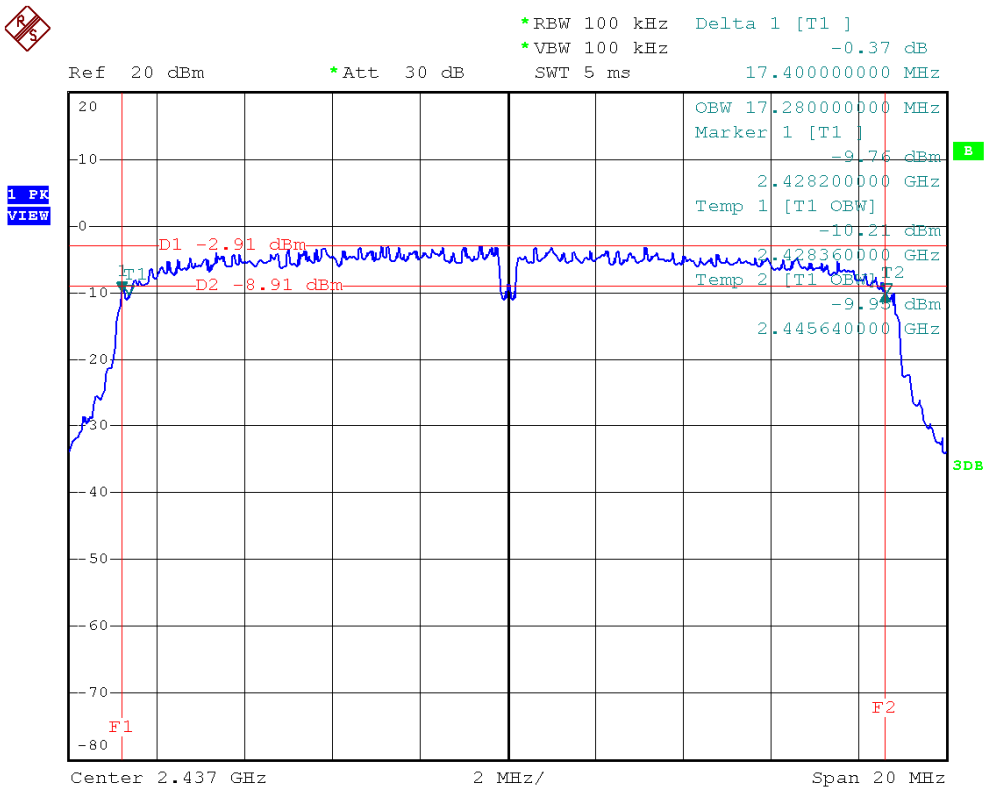
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01, CH06, CH11 (TX No.1)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.04	>=500KHz
CH06	2437	17.40	>=500KHz
CH11	2462	17.20	>=500KHz

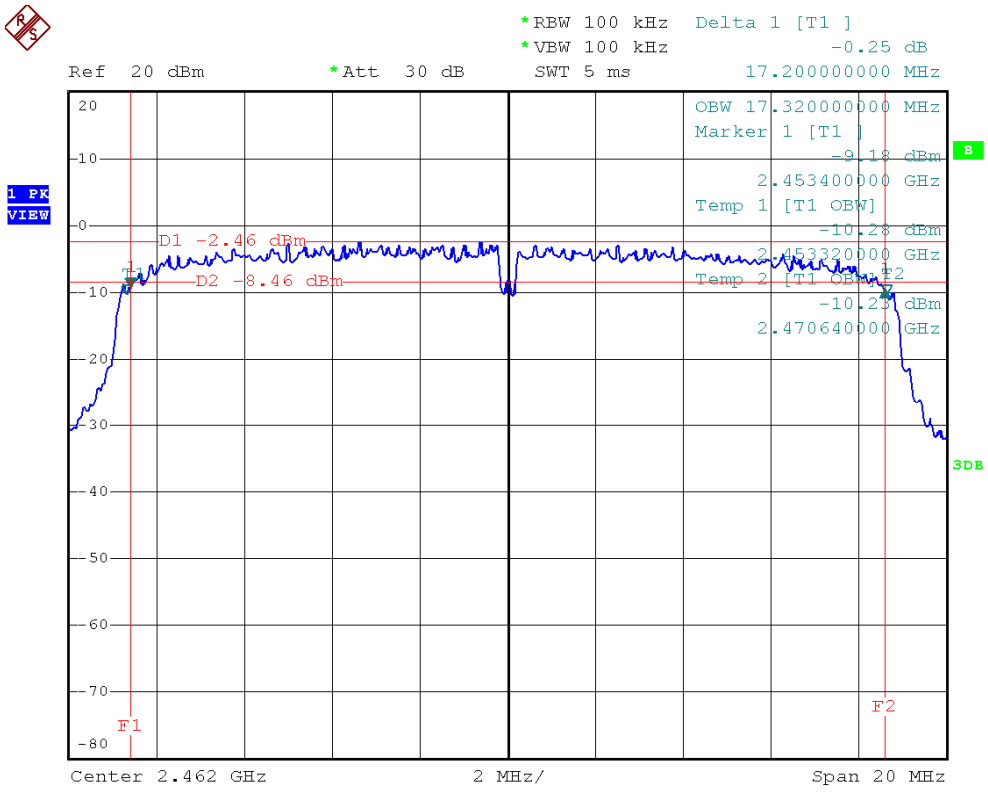
CH01



CH06


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-0.37 dB
17.400000000 MHz
OBW 17.280000000 MHz
Marker 1 [T1]
-9.76 dBm
2.428200000 GHz
Temp 1 [T1 OBW]
-10.21 dBm
2.428360000 GHz
Temp 2 [T1 OBW]
-9.9 dBm
2.445640000 GHz
D1 -2.91 dBm
D2 -8.91 dBm
1 PK VIEW
B
3DB
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

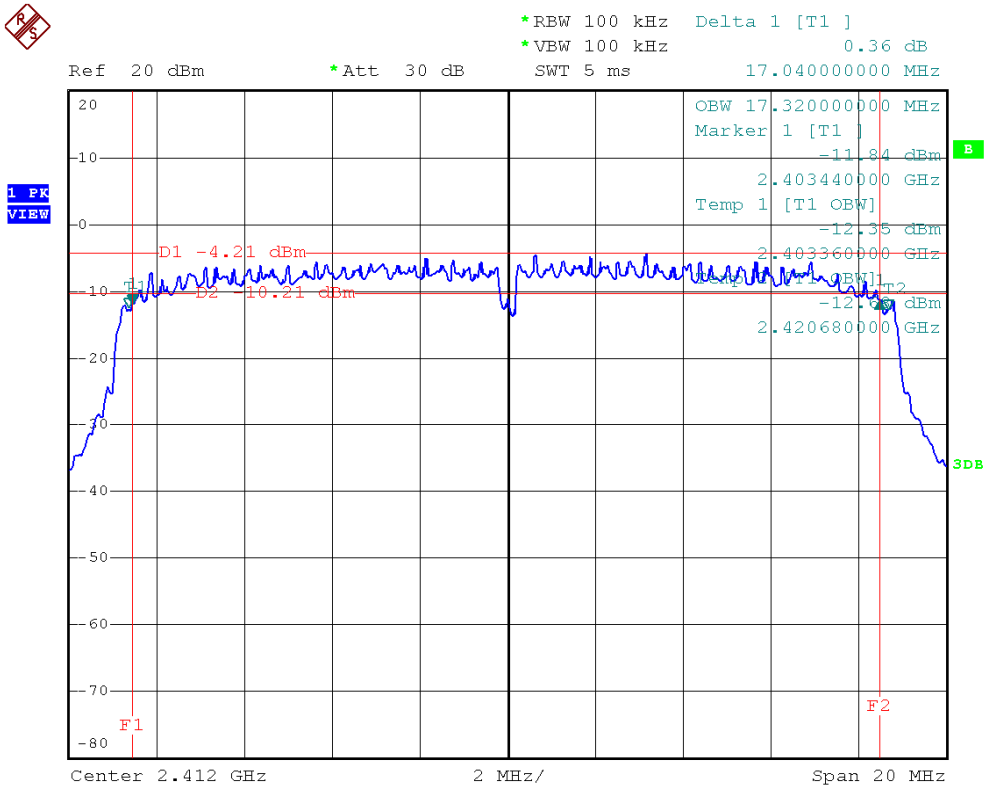
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-0.25 dB
17.200000000 MHz
OBW 17.320000000 MHz
Marker 1 [T1]
-9.18 dBm
2.453400000 GHz
Temp 1 [T1 OBW]
-10.28 dBm
2.453320000 GHz
Temp 2 [T1 OBW]
-10.25 dBm
2.470640000 GHz
D1 -2.46 dBm
D2 -8.46 dBm
1 PK VIEW
B
3DB
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

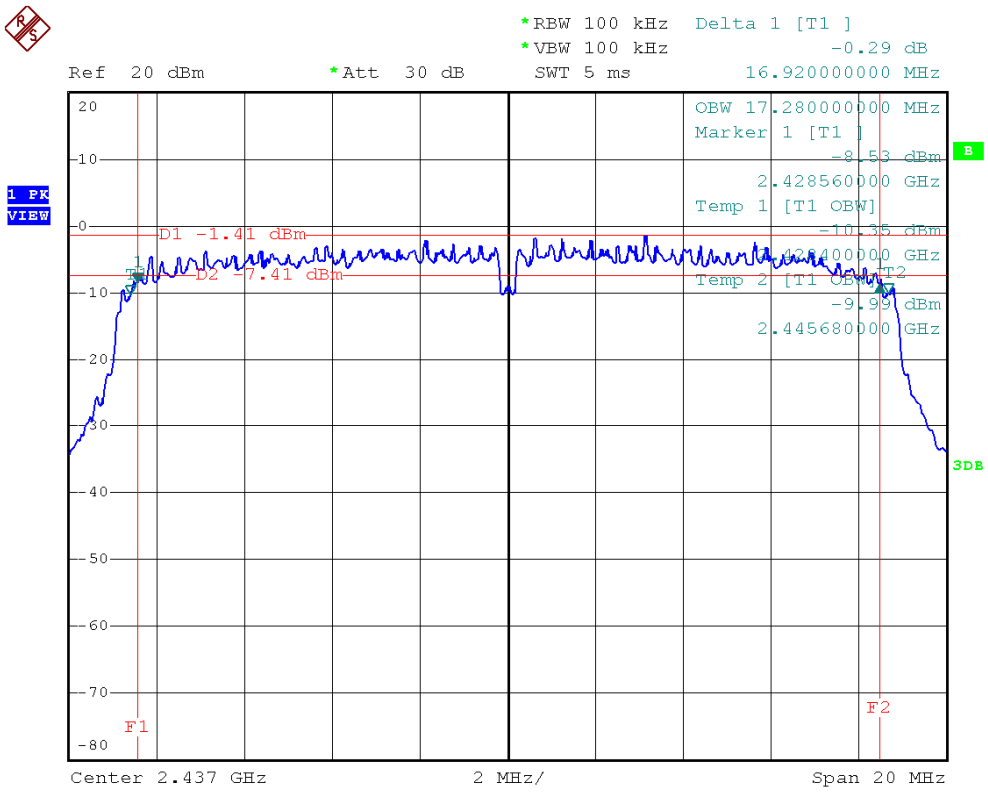
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01, CH06, CH11 (TX No.2)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.04	>=500KHz
CH06	2437	16.92	>=500KHz
CH11	2462	17.04	>=500KHz

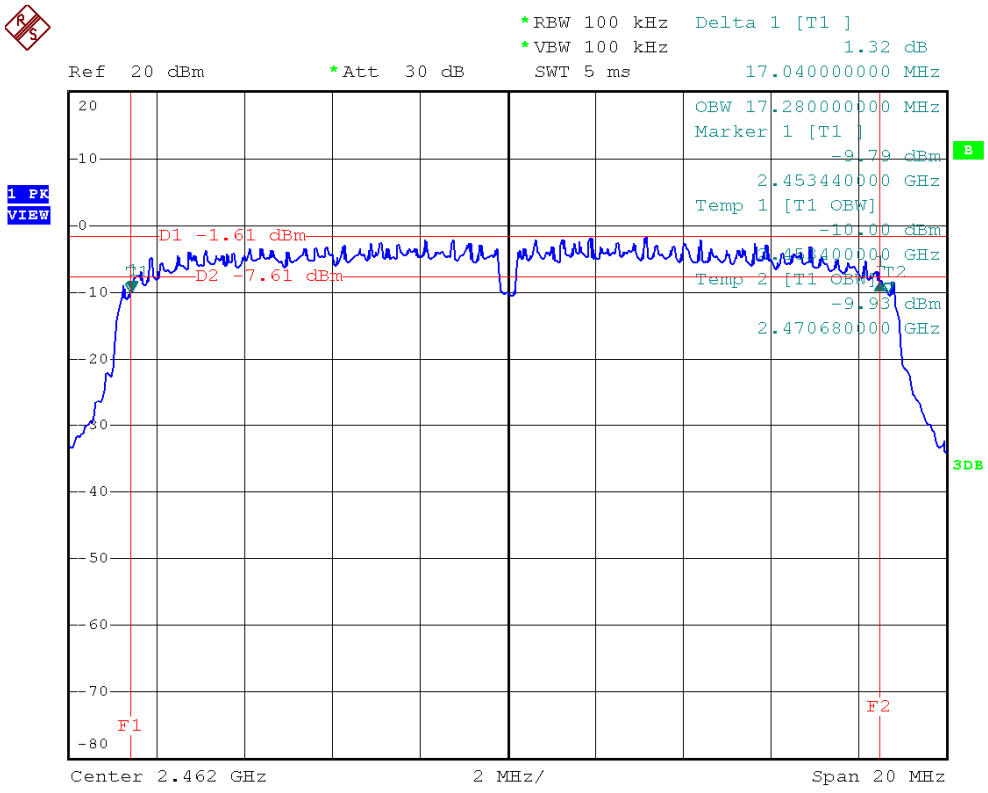
CH01



CH06


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-0.29 dB
16.920000000 MHz
OBW 17.280000000 MHz
Marker 1 [T1]
-8.53 dBm
2.428560000 GHz
Temp 1 [T1 OBW]
-10.35 dBm
2.428400000 GHz
Temp 2 [T1 OBW]
-9.99 dBm
2.445680000 GHz
D1 -1.41 dBm
D2 -7.41 dBm
1 PK VIEW
B
3DB
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

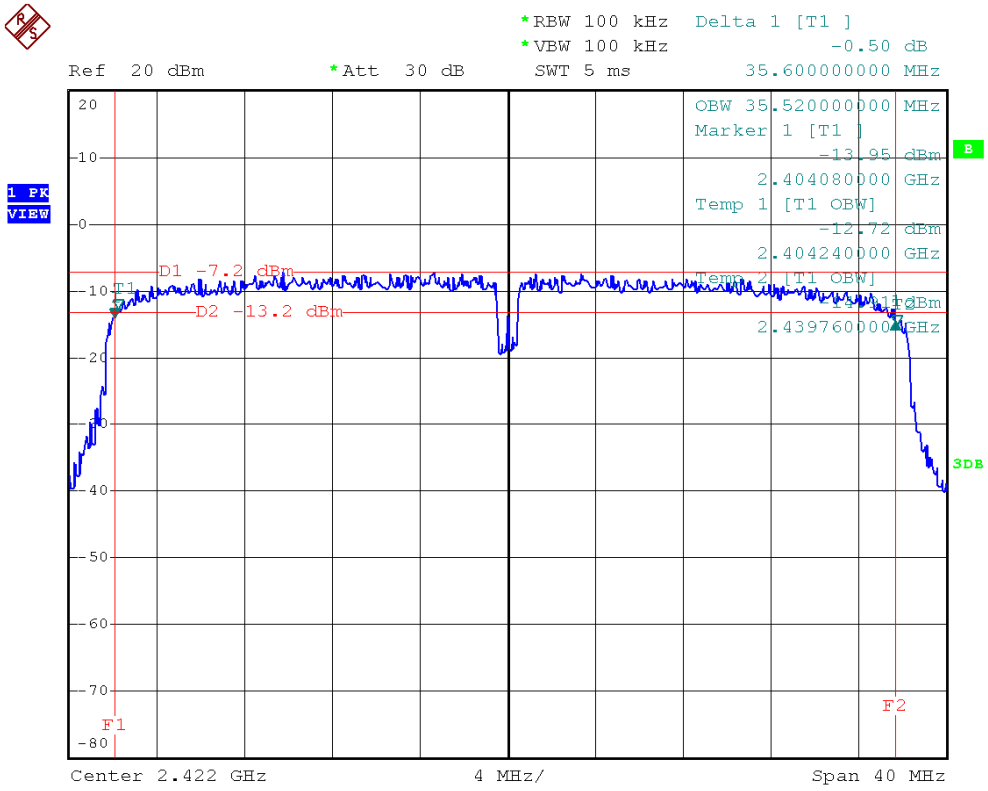
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
1.32 dB
17.040000000 MHz
OBW 17.280000000 MHz
Marker 1 [T1]
-9.79 dBm
2.453440000 GHz
Temp 1 [T1 OBW]
-10.00 dBm
2.453400000 GHz
Temp 2 [T1 OBW]
-9.93 dBm
2.470680000 GHz
D1 -1.61 dBm
D2 -7.61 dBm
1 PK VIEW
B
3DB
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

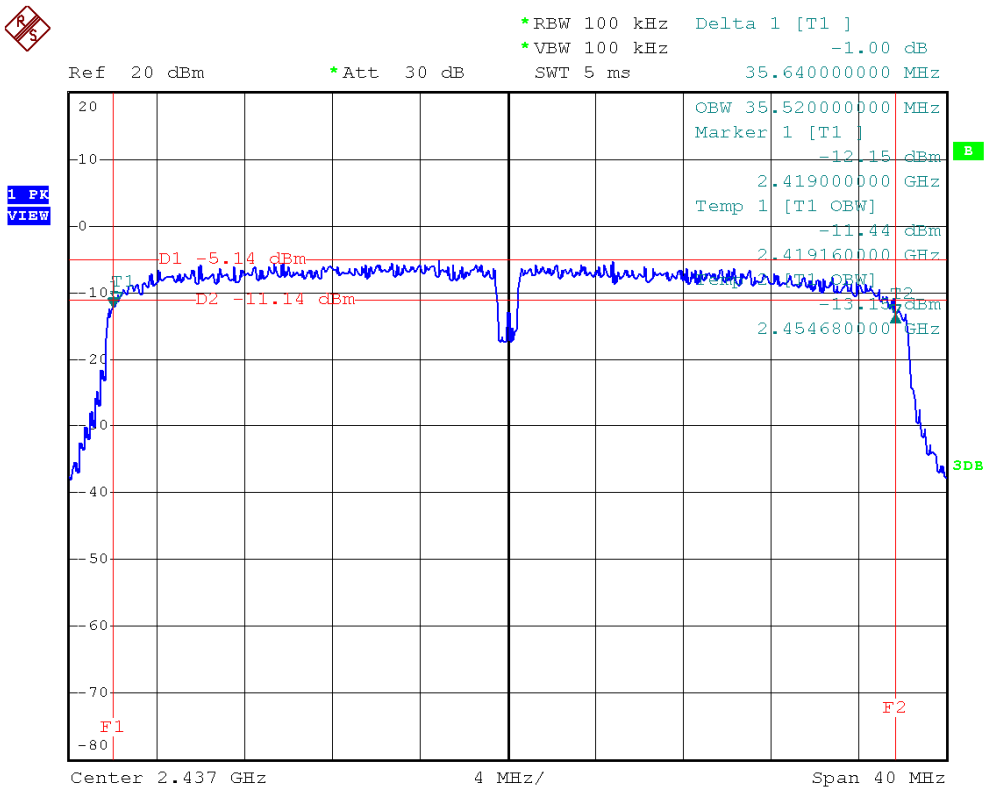
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03, CH06, CH09 (TX No.1)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	35.60	>=500KHz
CH06	2437	35.64	>=500KHz
CH09	2452	35.52	>=500KHz

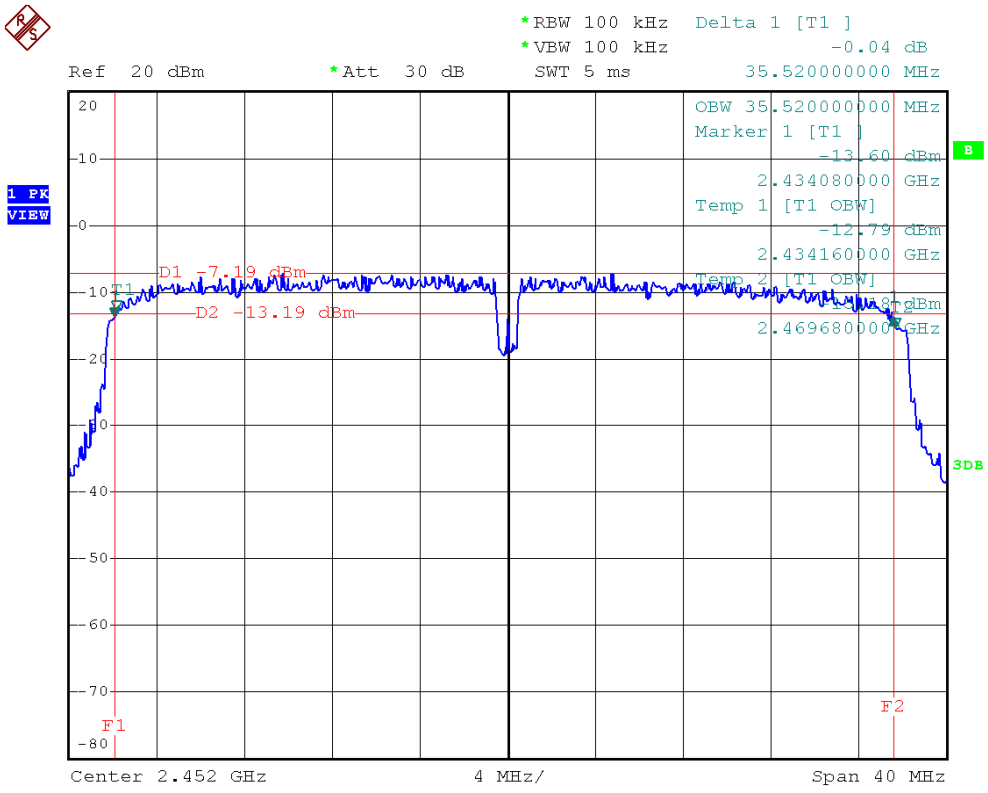
CH03



CH06


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-1.00 dB
35.640000000 MHz
Ref 20 dBm
*Att 30 dB
OBW 35.520000000 MHz
Marker 1 [T1]
-12.15 dBm
2.419000000 GHz
Temp 1 [T1 OBW]
-11.44 dBm
2.419160000 GHz
-13.14 dBm
2.454680000 GHz
D1 -5.14 dBm
D2 -11.14 dBm
1 PK VIEW
3DB
F1
F2
Center 2.437 GHz
4 MHz/
Span 40 MHz

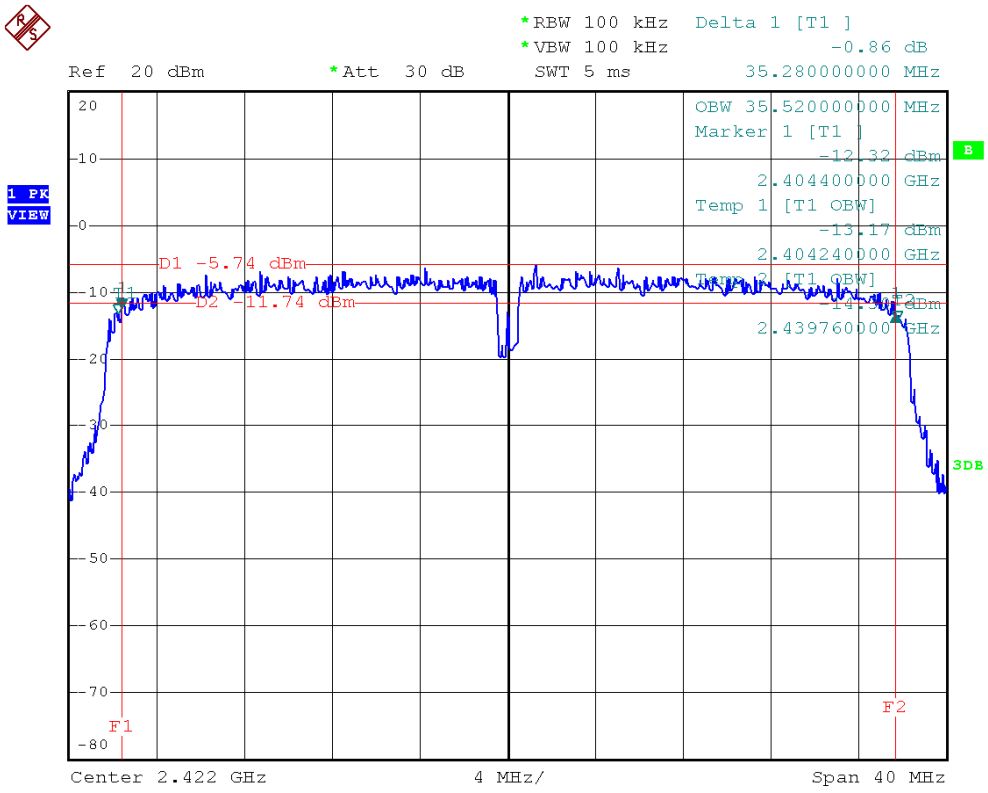
CH09


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-0.04 dB
35.520000000 MHz
Ref 20 dBm
*Att 30 dB
OBW 35.520000000 MHz
Marker 1 [T1]
-13.60 dBm
2.434080000 GHz
Temp 1 [T1 OBW]
-12.79 dBm
2.434160000 GHz
2.469680000 GHz
D1 -7.19 dBm
D2 -13.19 dBm
1 PK VIEW
3DB
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

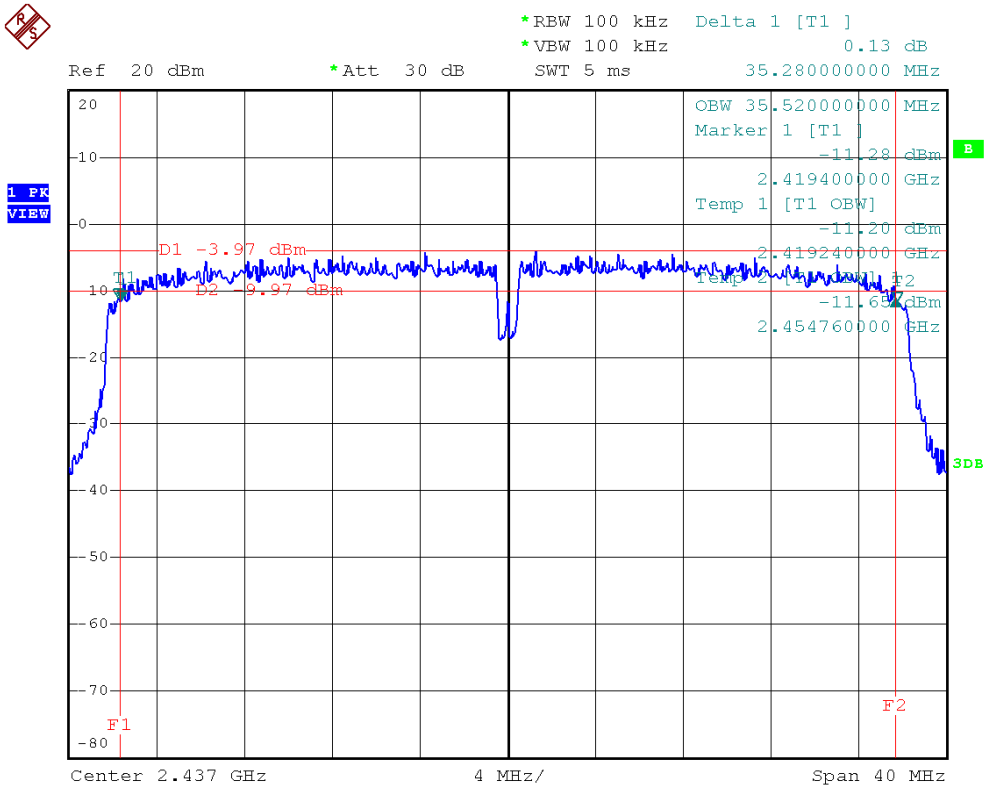
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03, CH06, CH09 (TX No.2)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	35.28	>=500KHz
CH06	2437	35.28	>=500KHz
CH09	2452	35.28	>=500KHz

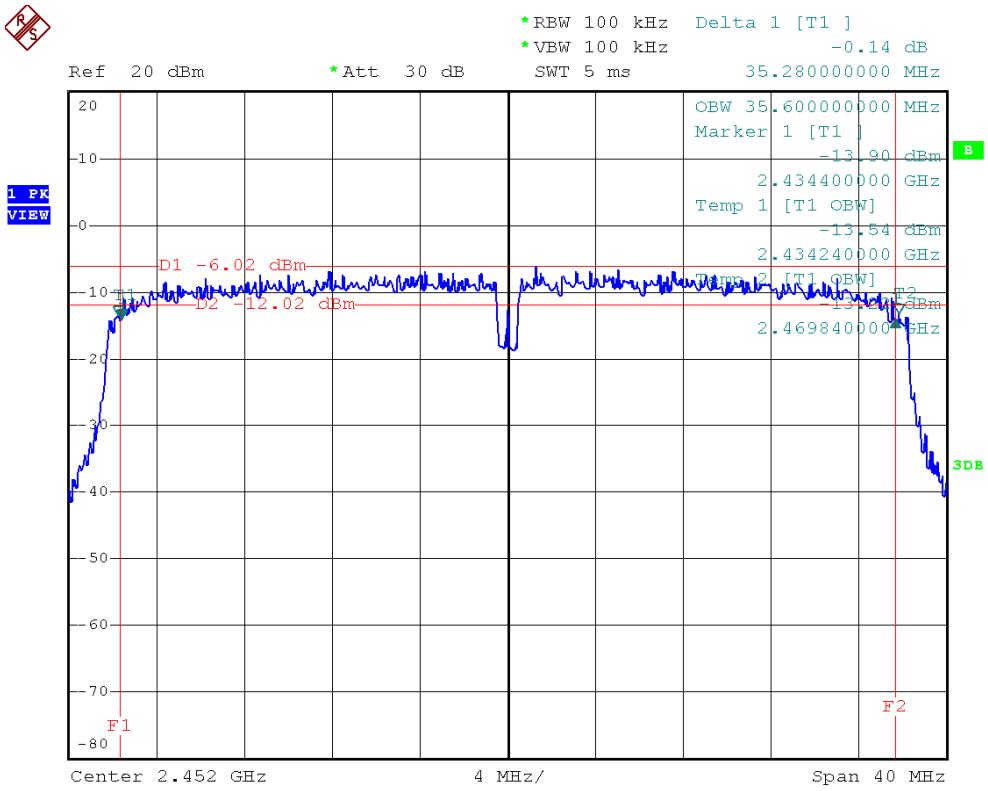
CH03



CH06


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
0.13 dB
35.280000000 MHz
OBW 35.520000000 MHz
Marker 1 [T1]
-11.28 dBm
2.419400000 GHz
Temp 1 [T1 OBW]
-11.20 dBm
2.419240000 GHz
-11.65 dBm
2.454760000 GHz
1 PK VIEW
D1 -3.97 dBm
D2 -9.97 dBm
3DB
F1
F2
Center 2.437 GHz
4 MHz/
Span 40 MHz

CH09


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-0.14 dB
35.280000000 MHz
OBW 35.600000000 MHz
Marker 1 [T1]
-13.90 dBm
2.434400000 GHz
Temp 1 [T1 OBW]
-13.54 dBm
2.434240000 GHz
2.469840000 GHz
1 PK VIEW
D1 -6.02 dBm
D2 -12.02 dBm
3DB
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

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, 2011
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2011

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

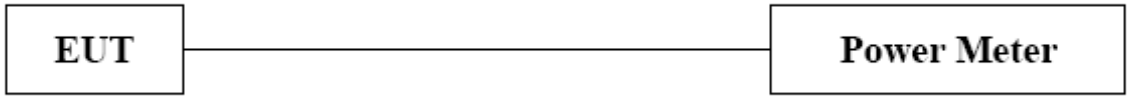
6.1.2 TEST PROCEDURE

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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	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	14.45	30	1
CH06	2437	14.00	30	1
CH11	2462	14.08	30	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	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	24.74	30	1
CH06	2437	24.53	30	1
CH11	2462	23.81	30	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01, CH06, CH11		

TX No.1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	19.78	0.0951	30	1
CH06	2437	21.96	0.1570	30	1
CH11	2462	22.18	0.1652	30	1

TX No.2					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	18.97	0.0789	30	1
CH06	2437	21.40	0.1380	30	1
CH11	2462	21.57	0.1435	30	1

Total (TX No.1 + TX No.2)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH01	2412	22.40	0.1739	30	1
CH06	2437	24.70	0.2951	30	1
CH11	2462	24.90	0.3087	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:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

(2) **Antenna Gain=3dBi.**

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03, CH06, CH09		

TX No.1					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH03	2422	20.20	0.1047	29.42	0.8750
CH06	2437	21.81	0.1517	29.42	0.8750
CH09	2452	20.20	0.1047	29.42	0.8750

TX No.2					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH03	2422	20.21	0.1050	29.42	0.8750
CH06	2437	21.84	0.1528	29.42	0.8750
CH09	2452	20.10	0.1023	29.42	0.8750

Total (TX No.1 + TX No.2)					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	(W)	LIMIT (dBm)	LIMIT (W)
CH03	2422	23.22	0.2097	30	1
CH06	2437	24.84	0.3045	30	1
CH09	2452	23.16	0.2070	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:
((dBm/Chain 1)/10^Log) + ((dBm/Chain 2)/10^log) + ((dBm/ChainN)/10^log) = Combined peak output power in mW.

(2) **Antenna Gain=3dBi.**

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-40	100129	Sep. 10, 2010

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

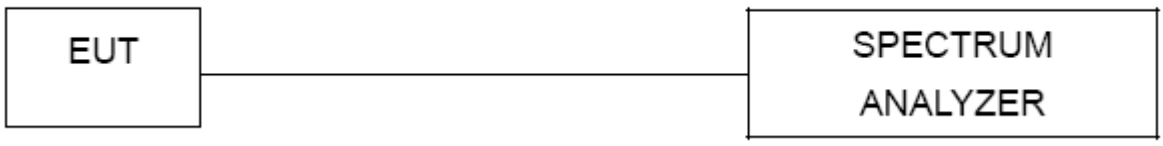
7.1.2 TEST PROCEDURE

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

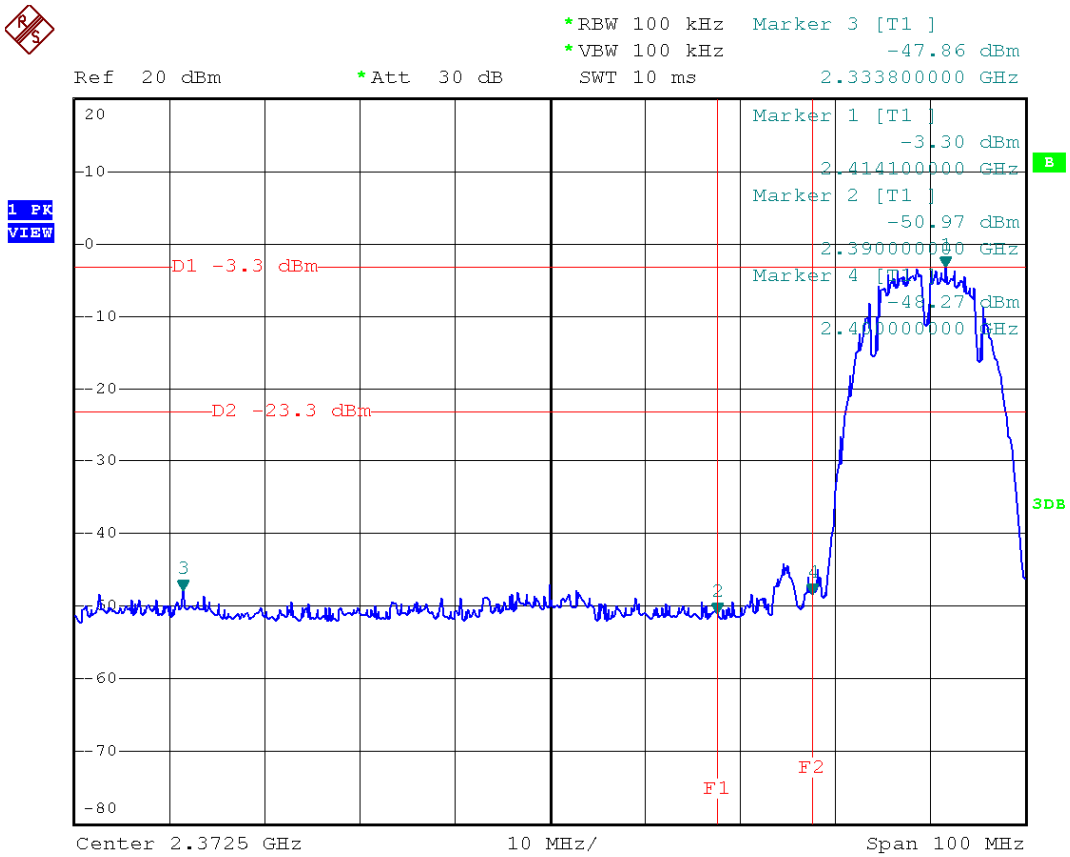
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.6 TEST RESULTS

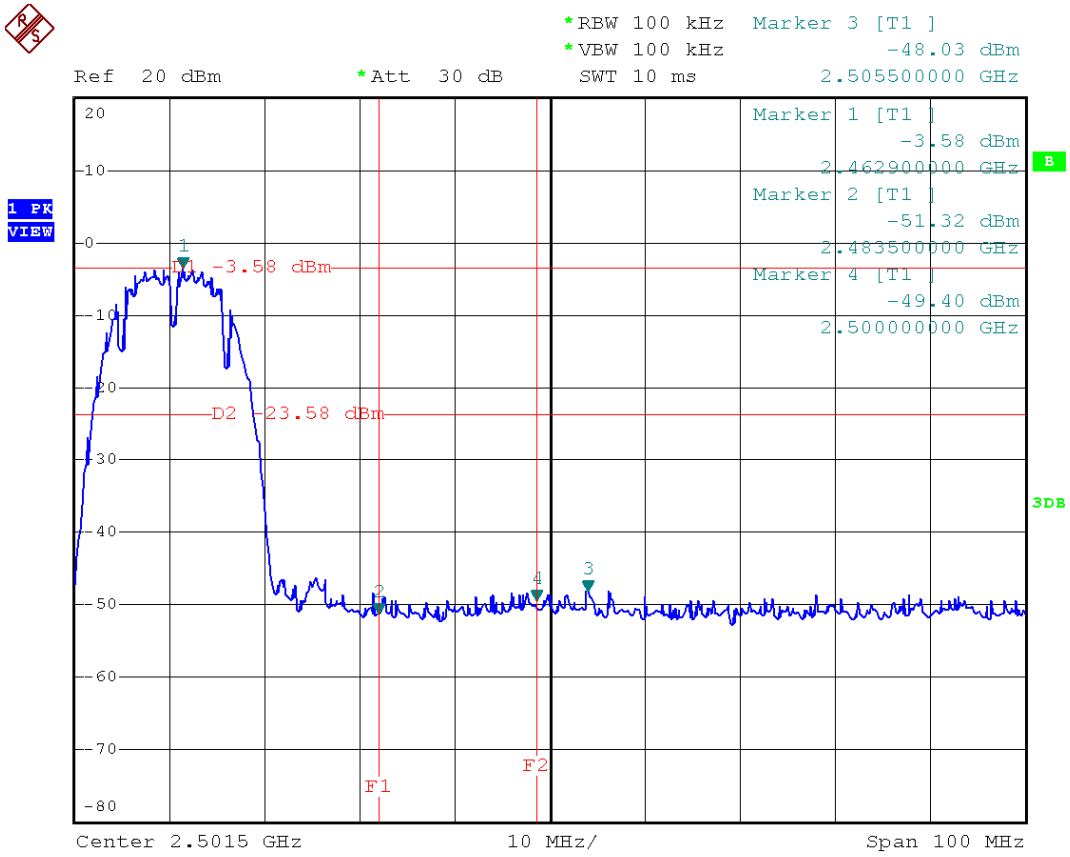
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11b/CH01, CH11		

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)
2333.80	-47.86	2505.50	-48.03
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



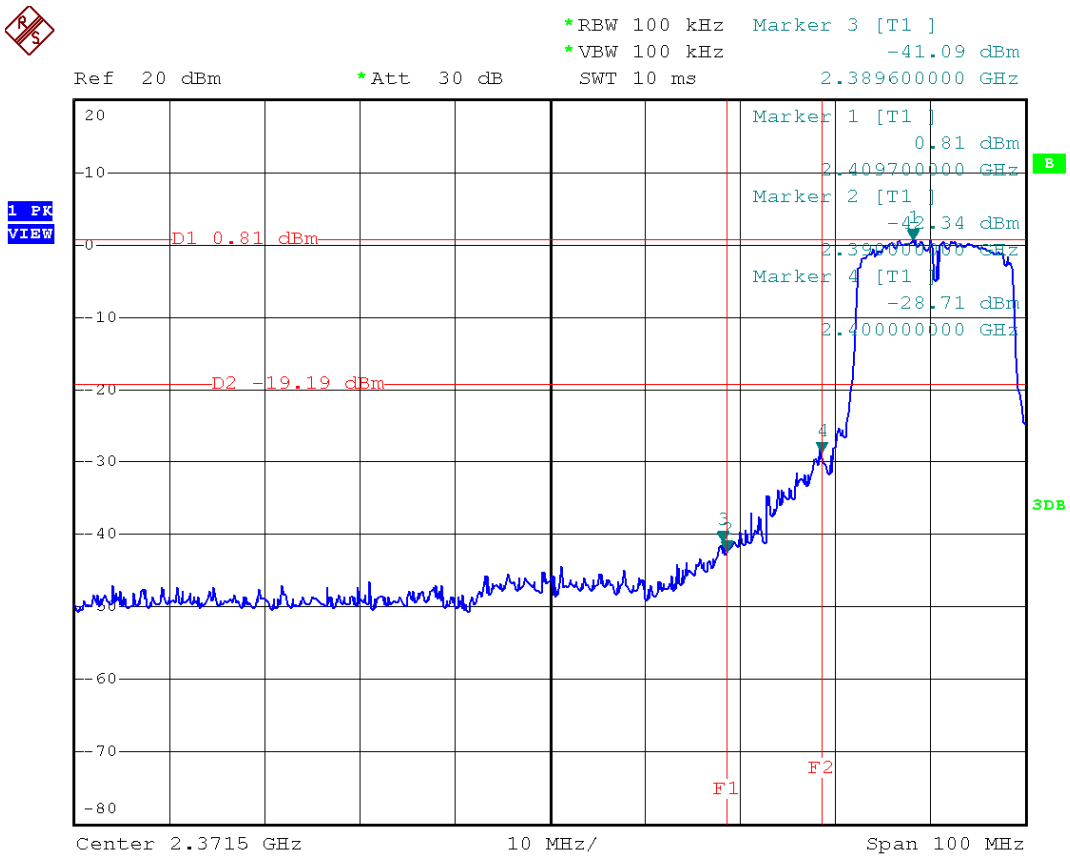
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 10 ms
Marker 3 [T1]
-48.03 dBm
2.505500000 GHz
Marker 1 [T1]
-3.58 dBm
2.462900000 GHz
Marker 2 [T1]
-51.32 dBm
2.483500000 GHz
Marker 4 [T1]
-49.40 dBm
2.500000000 GHz
1 PK
VIEW
B
3DB
D1 -3.58 dBm
D2 -23.58 dBm
F1
F2
Center 2.5015 GHz
10 MHz/
Span 100 MHz

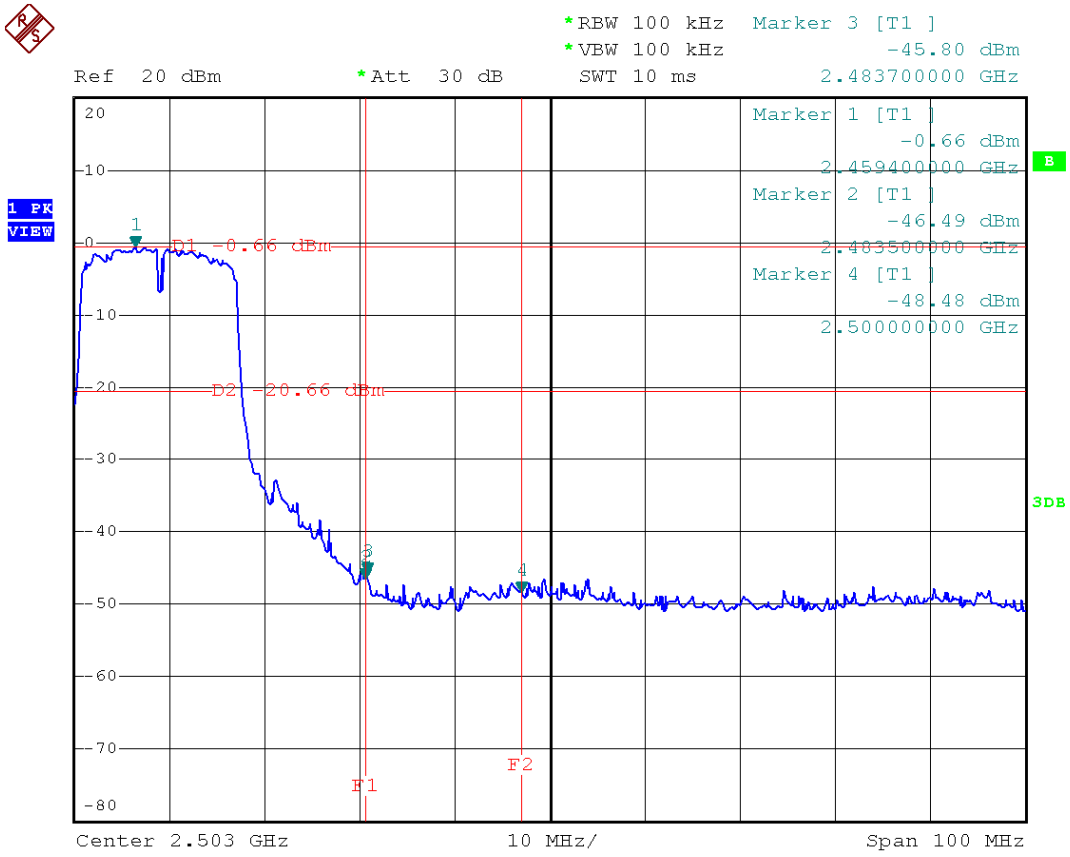
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11g/CH01, CH11		

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)
2389.60	-41.09	2483.70	-45.80
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



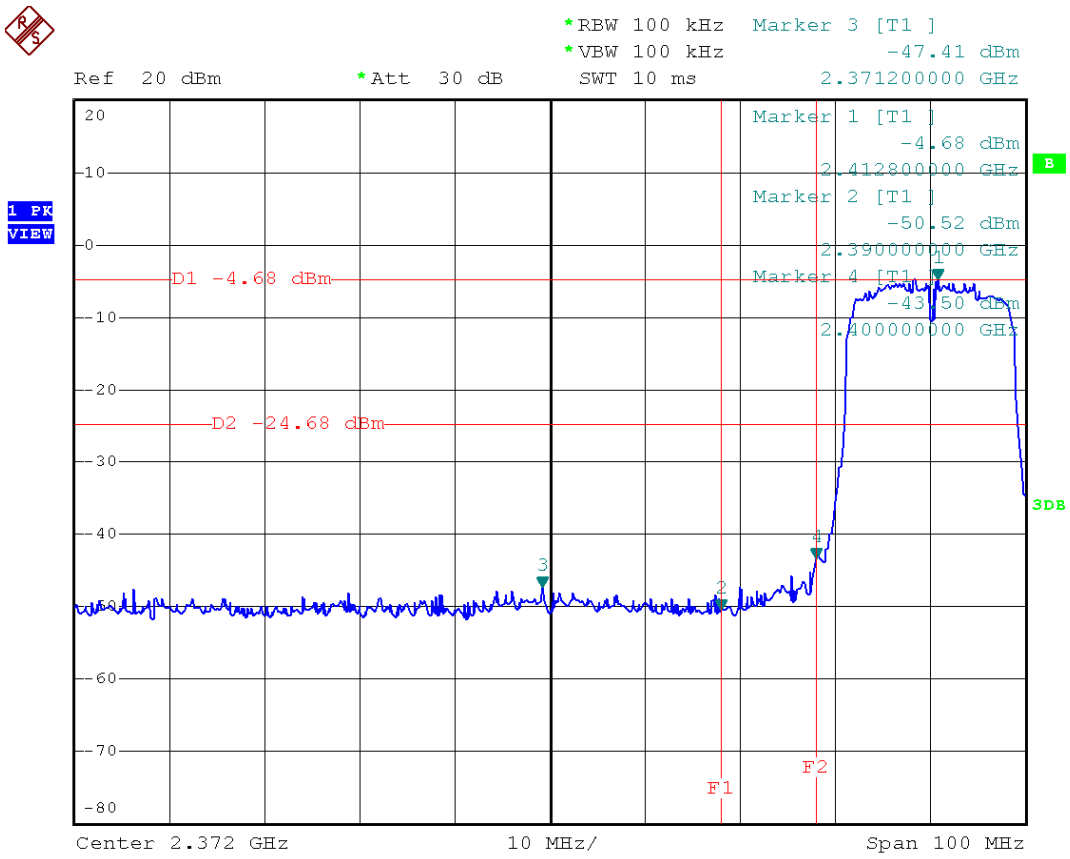
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 10 ms
Marker 3 [T1]
-45.80 dBm
2.483700000 GHz
Marker 1 [T1]
-0.66 dBm
2.459400000 GHz
Marker 2 [T1]
-46.49 dBm
2.483500000 GHz
Marker 4 [T1]
-48.48 dBm
2.500000000 GHz
1 PK
VIEW
B
3DB
D1 -0.66 dBm
D2 -20.66 dBm
F1
F2
Center 2.503 GHz
10 MHz/
Span 100 MHz

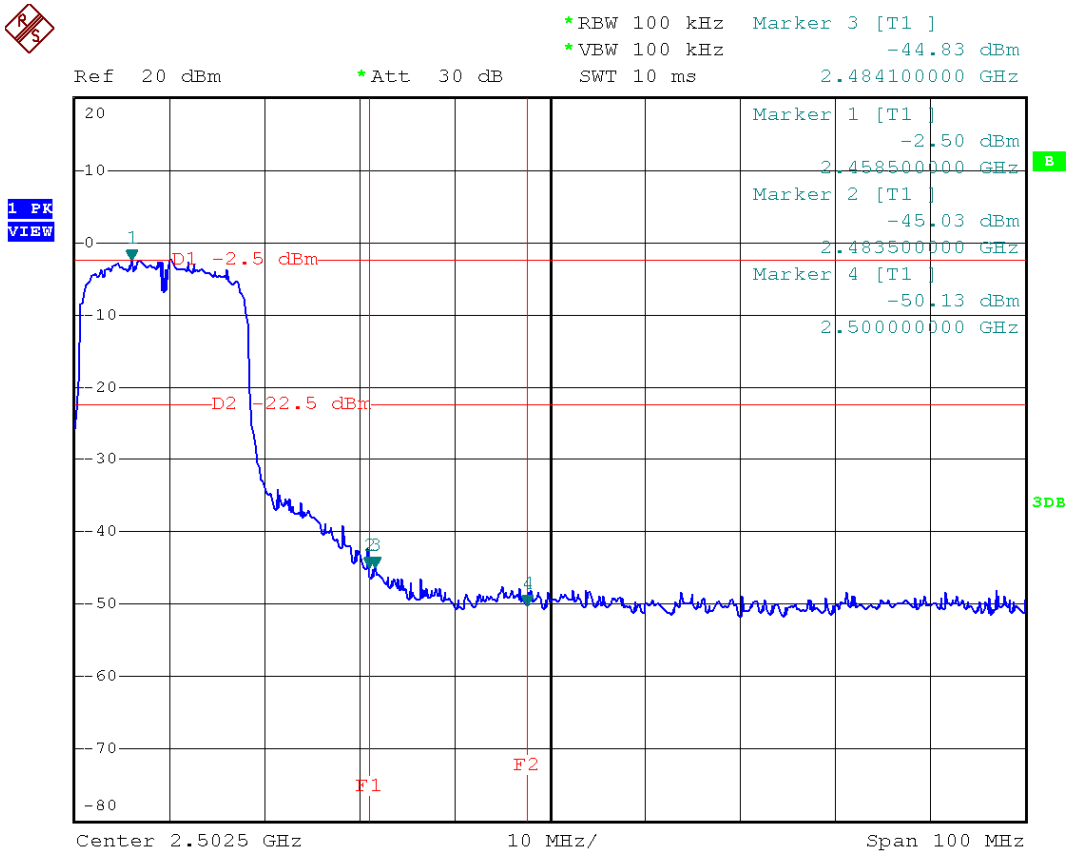
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01, CH11(TX No.1)		

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)
2371.20	-47.41	2484.10	-44.83
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



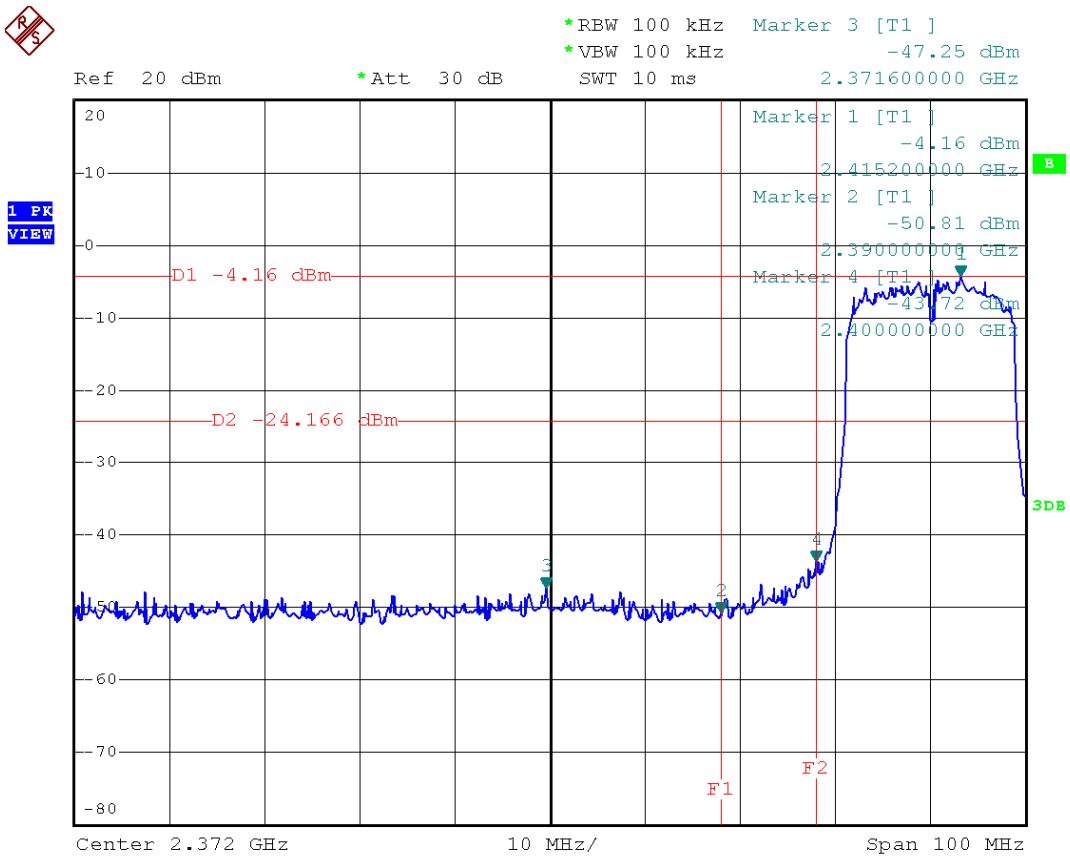
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 10 ms
Marker 3 [T1]
-44.83 dBm
2.484100000 GHz
Marker 1 [T1]
-2.50 dBm
2.458500000 GHz
Marker 2 [T1]
-45.03 dBm
2.483500000 GHz
Marker 4 [T1]
-50.13 dBm
2.500000000 GHz
1 PK
VIEW
B
3DB
D1 -2.5 dBm
D2 -22.5 dBm
F1
F2
Center 2.5025 GHz
10 MHz/
Span 100 MHz

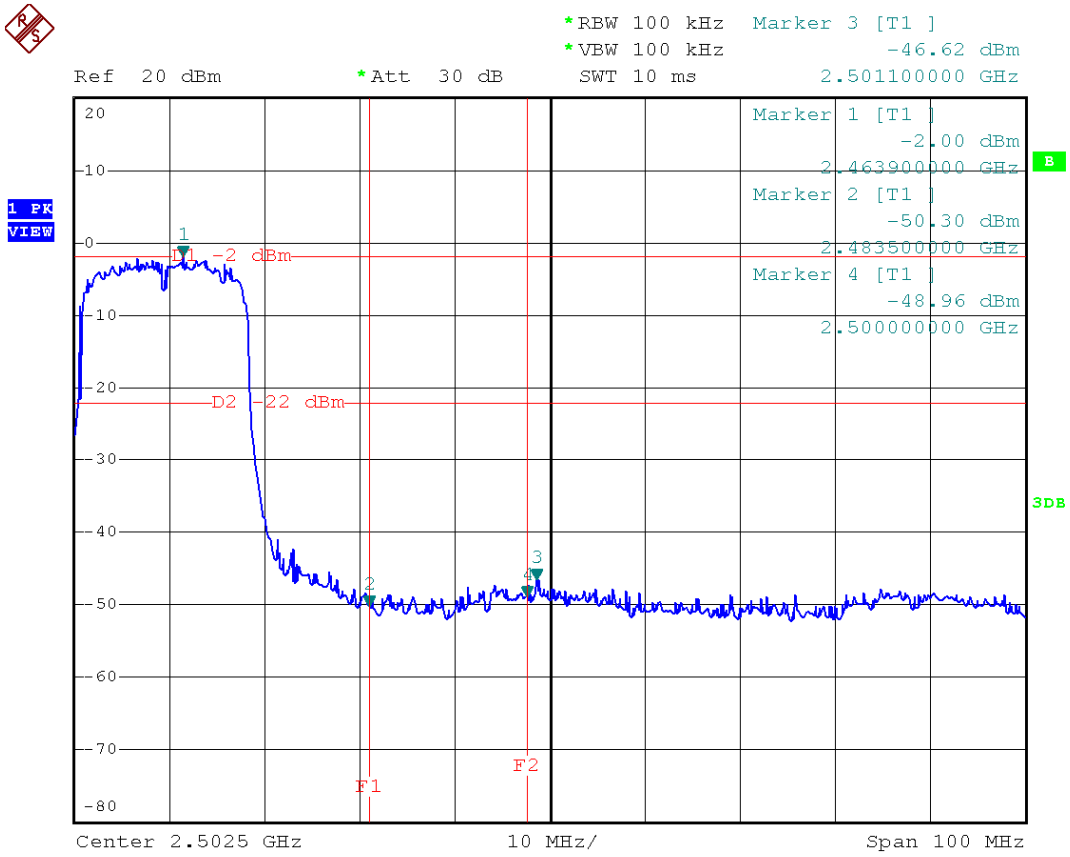
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01, CH11(TX No.2)		

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)
2371.60	-47.25	2501.10	-46.62
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



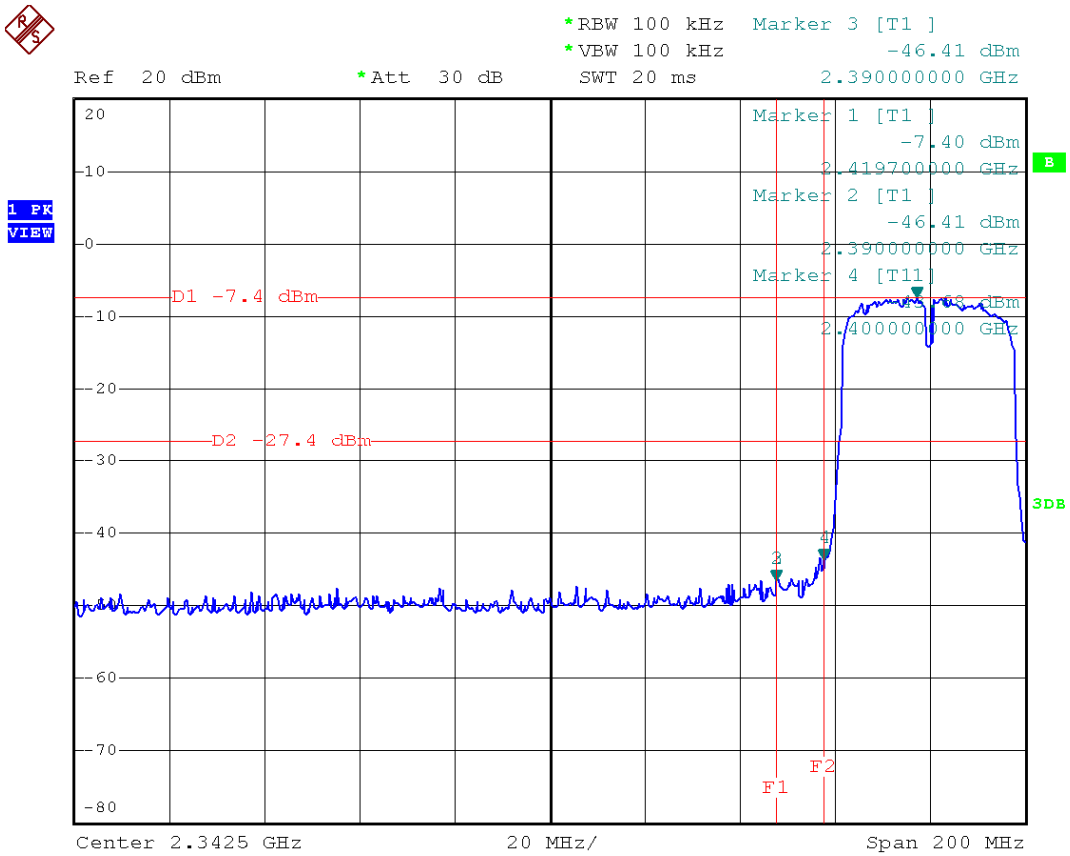
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 10 ms
Marker 3 [T1]
-46.62 dBm
2.501100000 GHz
Marker 1 [T1]
-2.00 dBm
2.463900000 GHz
Marker 2 [T1]
-50.30 dBm
2.483500000 GHz
Marker 4 [T1]
-48.96 dBm
2.500000000 GHz
1 PK
VIEW
B
3DB
D1 -2 dBm
D2 -22 dBm
F1
F2
Center 2.5025 GHz
10 MHz/
Span 100 MHz

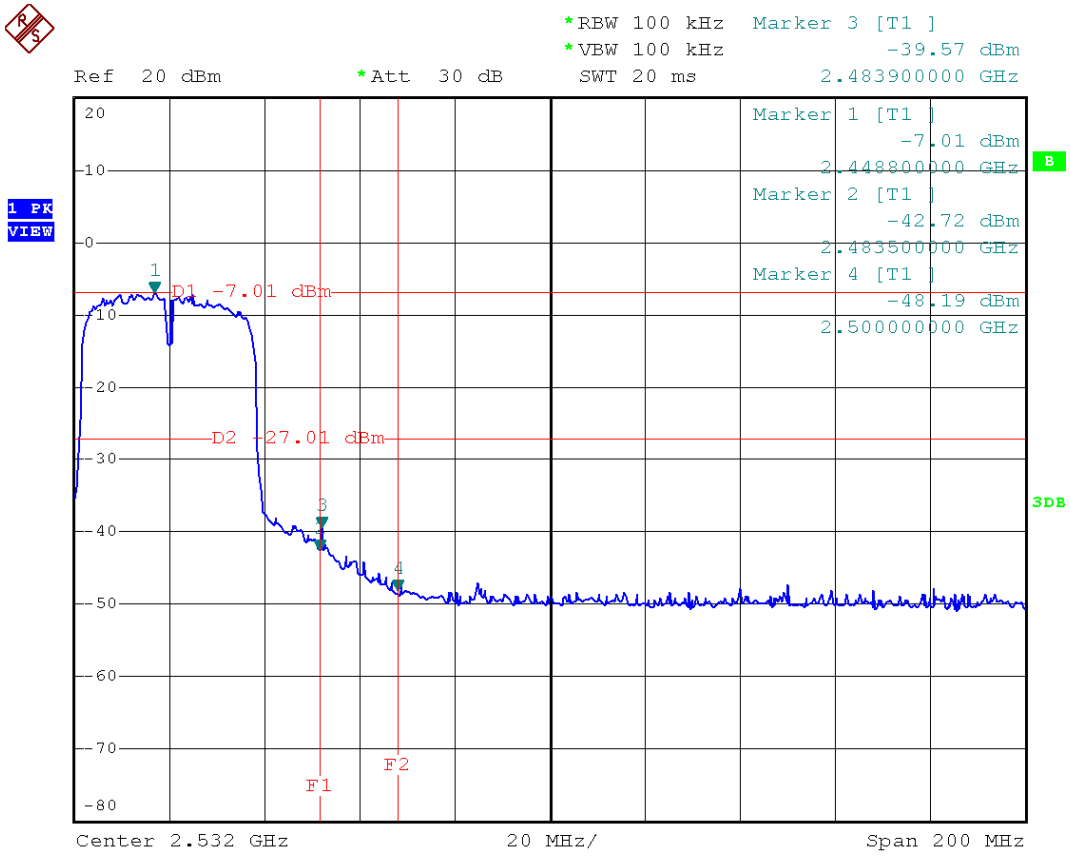
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03, CH09(TX No.1)		

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	-46.41	2483.90	-39.57
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH03



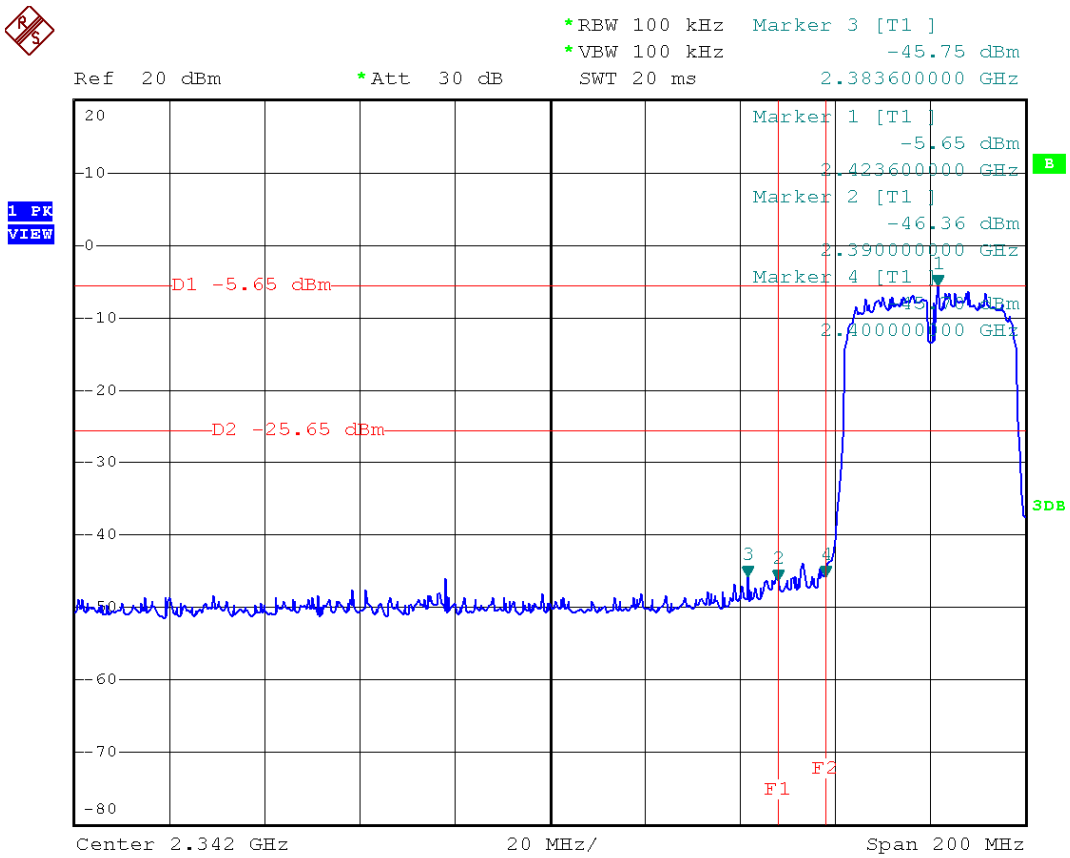
CH09


*RBW 100 kHz
*VBW 100 kHz
Ref 20 dBm
*Att 30 dB
SWT 20 ms
Marker 3 [T1]
-39.57 dBm
2.483900000 GHz
Marker 1 [T1]
-7.01 dBm
2.448800000 GHz
Marker 2 [T1]
-42.72 dBm
2.483500000 GHz
Marker 4 [T1]
-48.19 dBm
2.500000000 GHz
1 PK
VIEW
B
3DB
D1 -7.01 dBm
D2 -27.01 dBm
F1
F2
Center 2.532 GHz
20 MHz/
Span 200 MHz

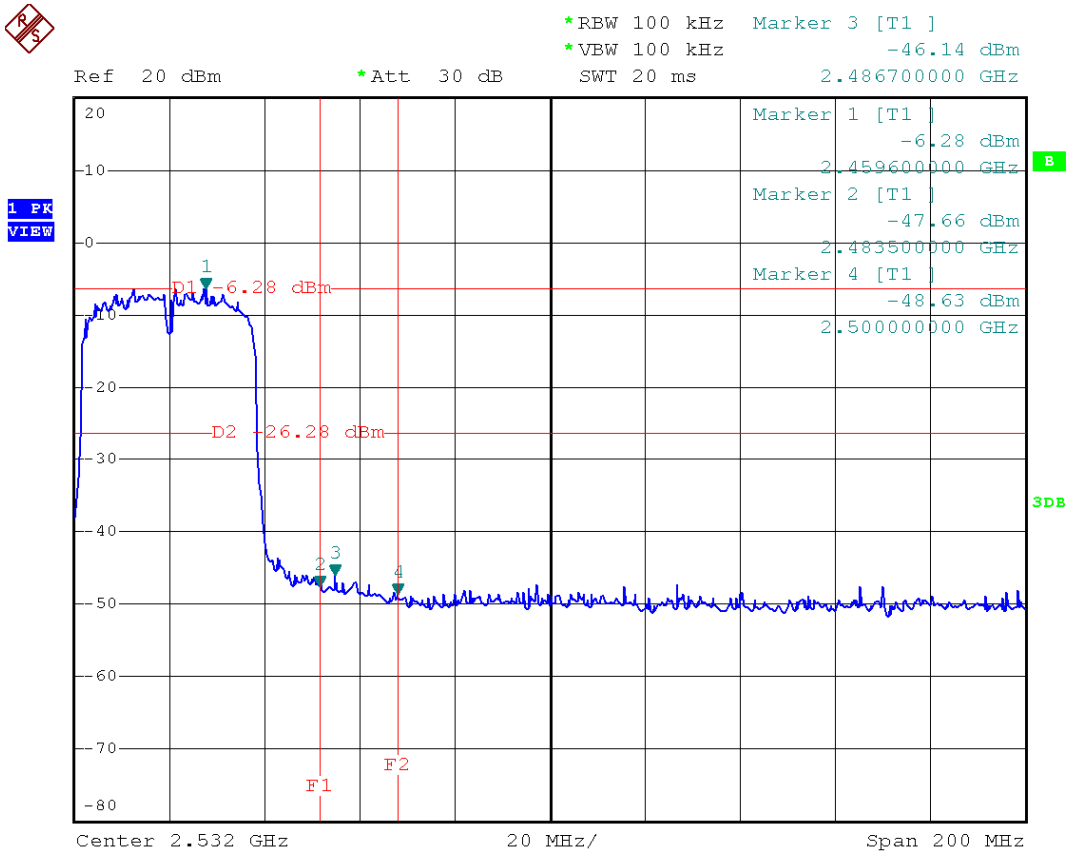
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03, CH09(TX No.2)		

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)
2383.60	-45.75	2483.70	-46.14
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH03



CH09


*RBW 100 kHz
*VBW 100 kHz
SWT 20 ms
Marker 3 [T1]
-46.14 dBm
2.486700000 GHz
Ref 20 dBm
*Att 30 dB
Marker 1 [T1]
-6.28 dBm
2.459600000 GHz
Marker 2 [T1]
-47.66 dBm
2.483500000 GHz
Marker 4 [T1]
-48.63 dBm
2.500000000 GHz
1 PK
VIEW
B
3DB
D1 -6.28 dBm
D2 -26.28 dBm
F1
F2
Center 2.532 GHz
20 MHz/
Span 200 MHz

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-40	100129	Sep. 10, 2010

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

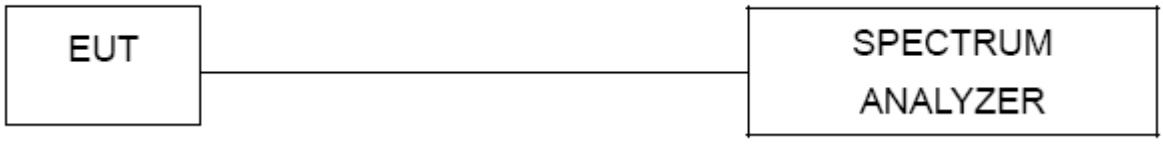
8.1.2 TEST PROCEDURE

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

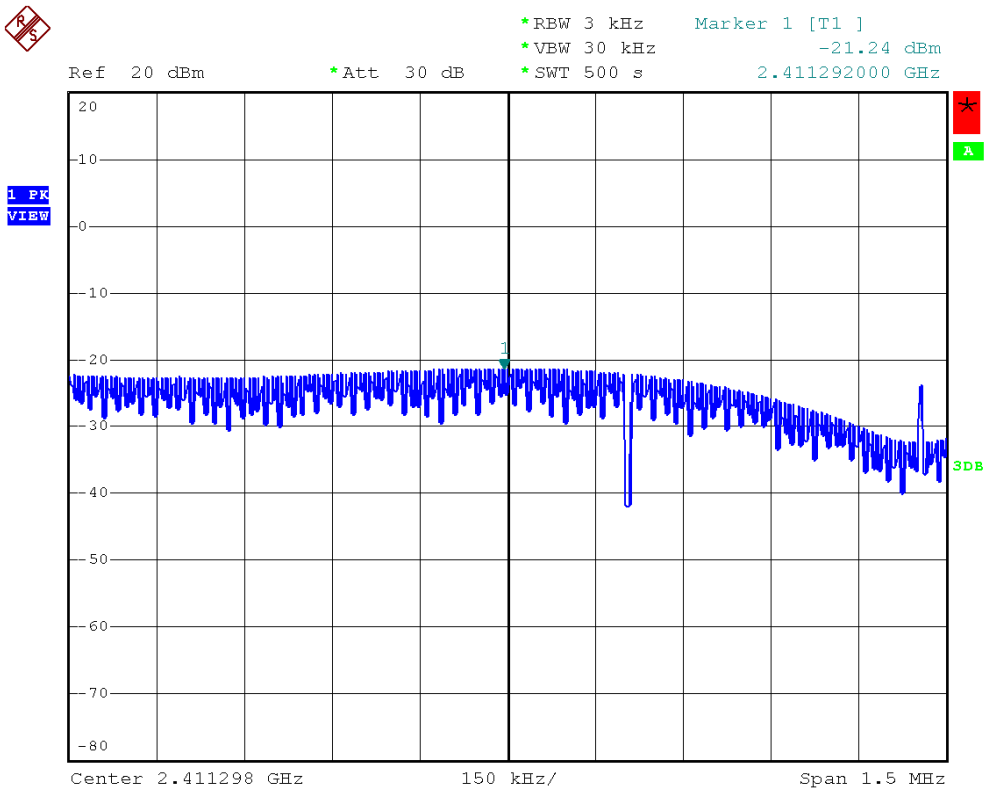
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.6 TEST RESULTS

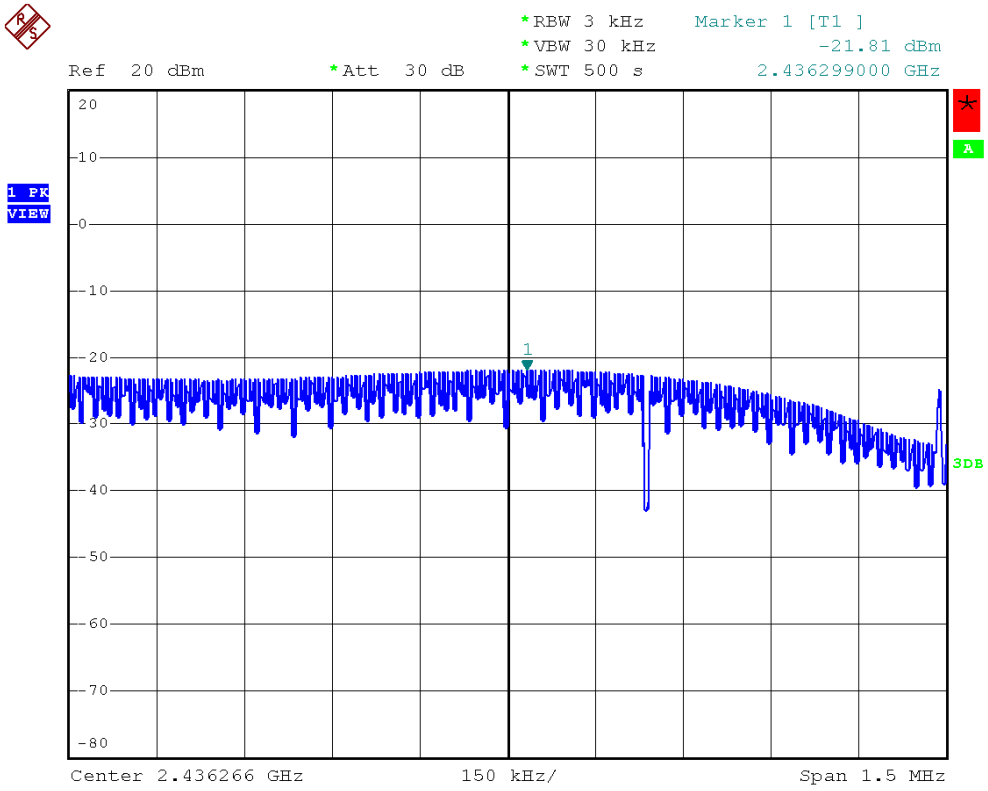
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-21.24	8
CH06	2437	-21.81	8
CH11	2462	-21.61	8

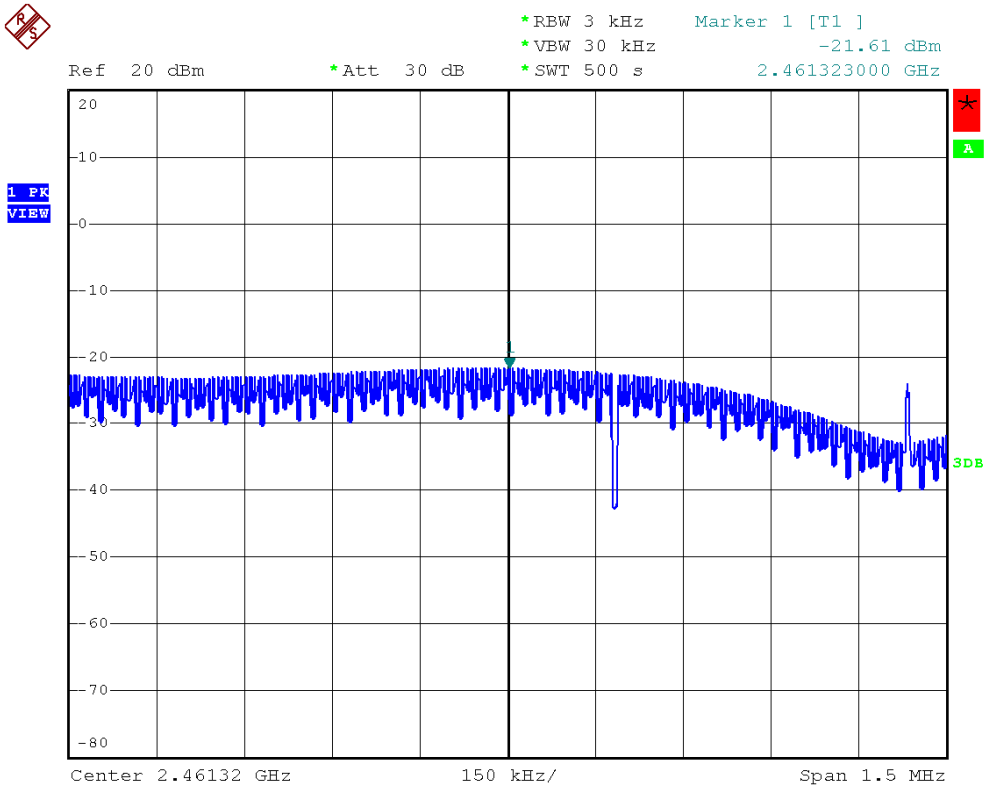
CH01



CH06


RBW 3 kHz
VBW 30 kHz
SWT 500 s
Marker 1 [T1]
-21.81 dBm
2.436299000 GHz
Ref 20 dBm
Att 30 dB
1 PK
VIEW
3DB
Center 2.436266 GHz
150 kHz/
Span 1.5 MHz

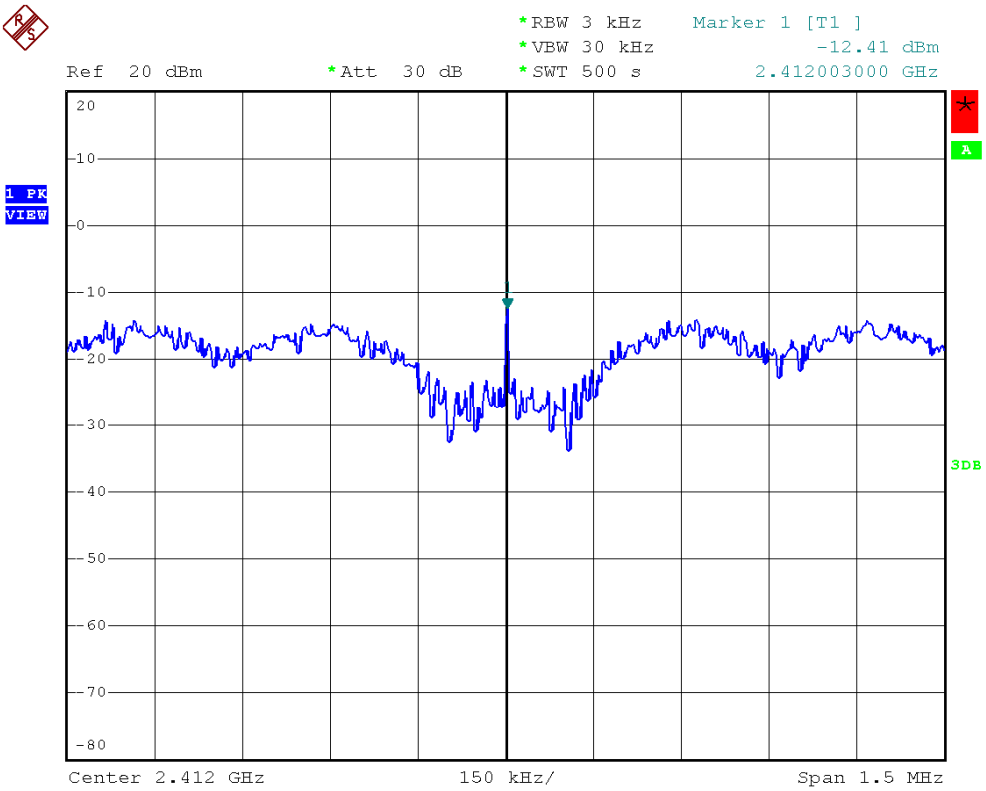
CH11


RBW 3 kHz
VBW 30 kHz
SWT 500 s
Marker 1 [T1]
-21.61 dBm
2.461323000 GHz
Ref 20 dBm
Att 30 dB
1 PK
VIEW
3DB
Center 2.46132 GHz
150 kHz/
Span 1.5 MHz

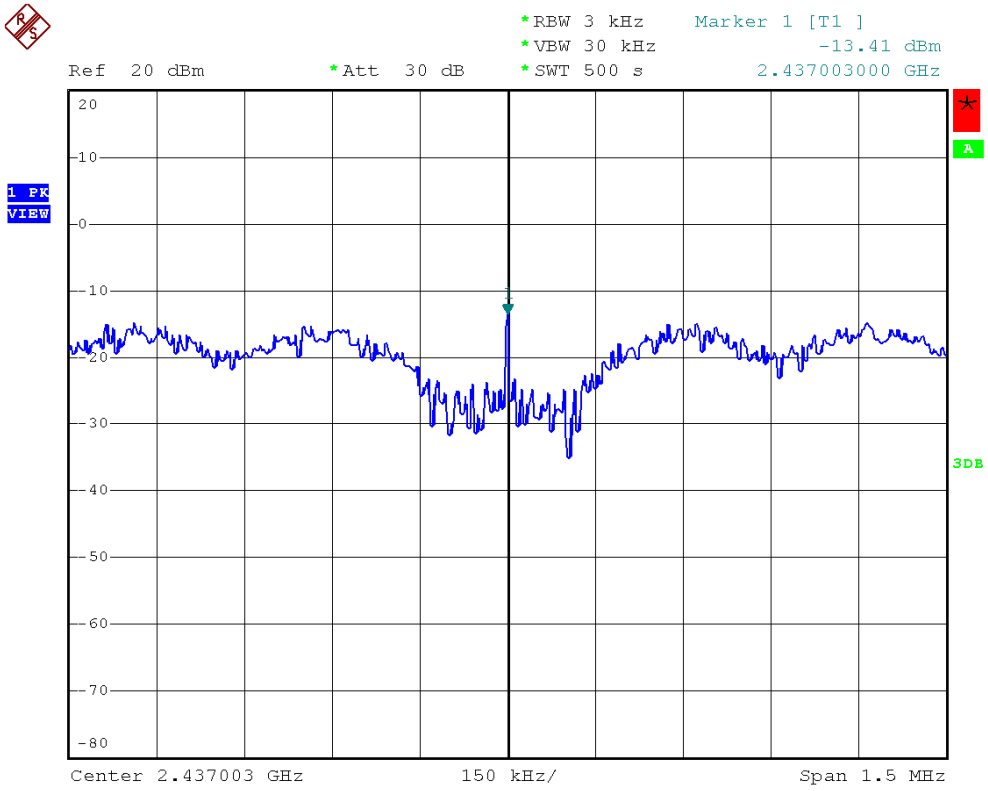
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-12.41	8
CH06	2437	-13.41	8
CH11	2462	-14.32	8

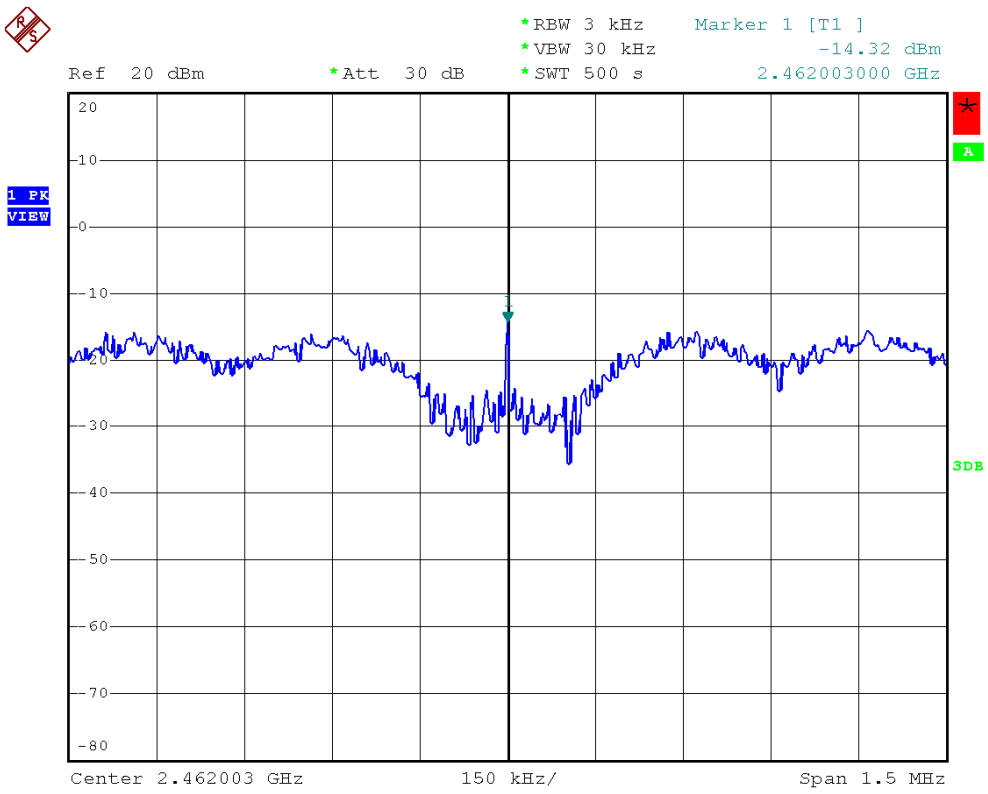
CH01



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-13.41 dBm
2.437003000 GHz
Ref 20 dBm
*Att 30 dB
1 PK VIEW
A
3DB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437003 GHz
150 kHz/
Span 1.5 MHz

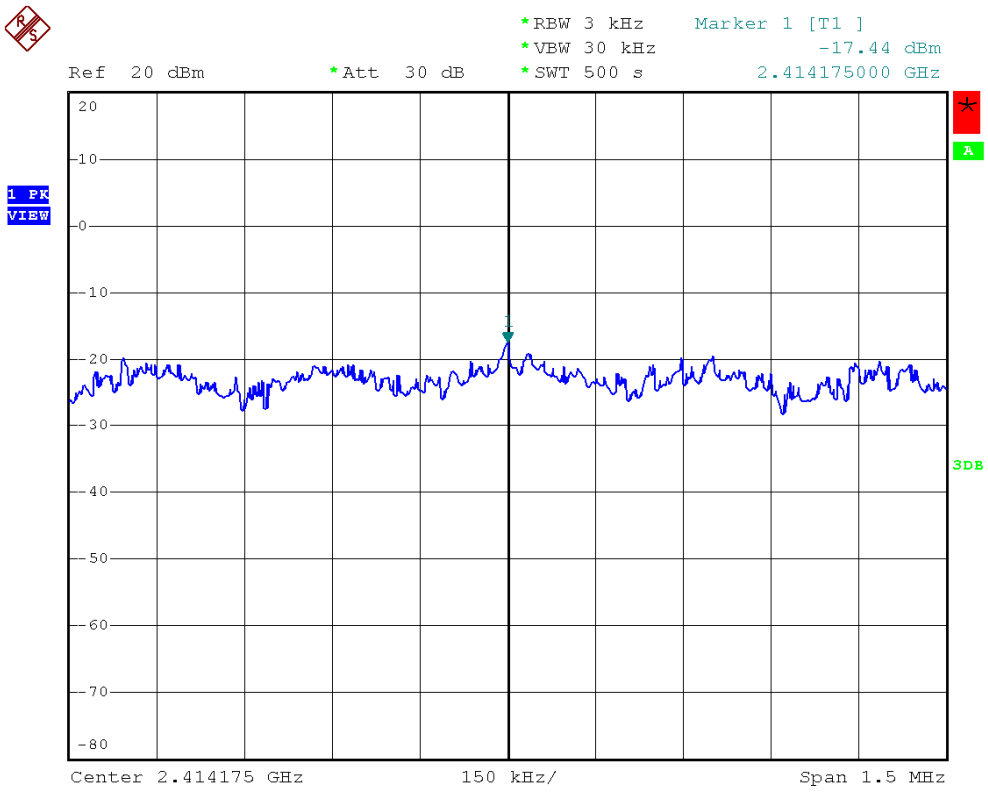
CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.32 dBm
2.462003000 GHz
Ref 20 dBm
*Att 30 dB
1 PK VIEW
A
3DB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.462003 GHz
150 kHz/
Span 1.5 MHz

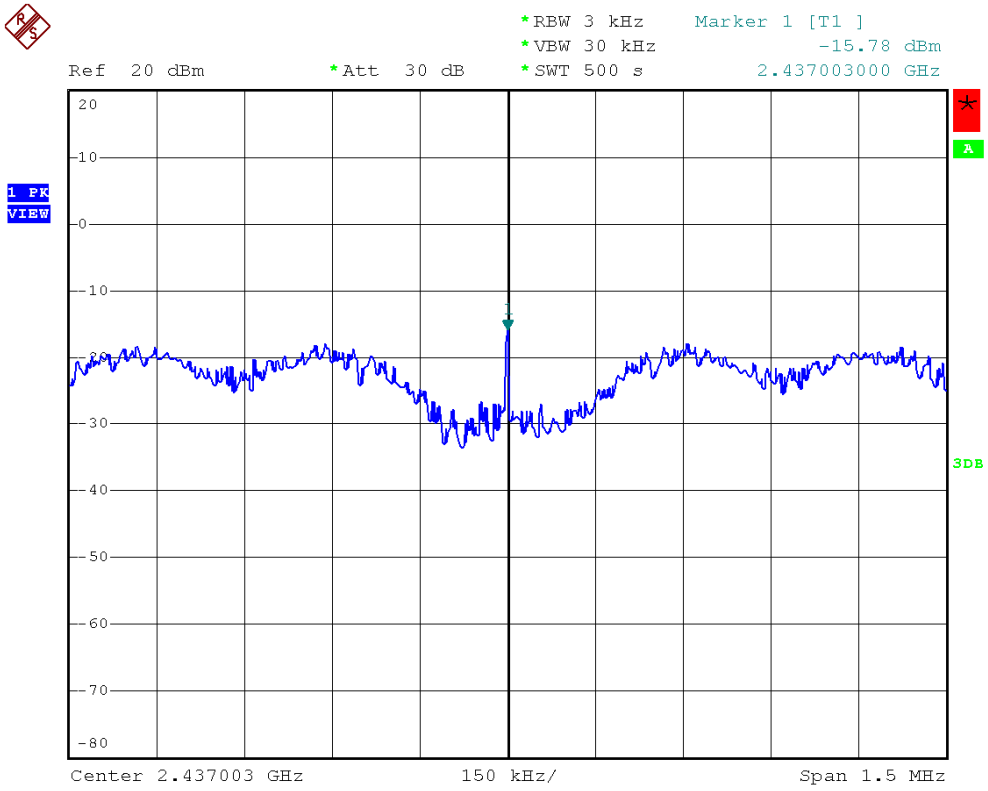
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01, CH06, CH11(TX No.1)		

Test Channel	Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	LIMIT (dBm)
CH01	2412	-17.44	0.02	8
CH06	2437	-15.78	0.03	8
CH11	2462	-14.94	0.03	8

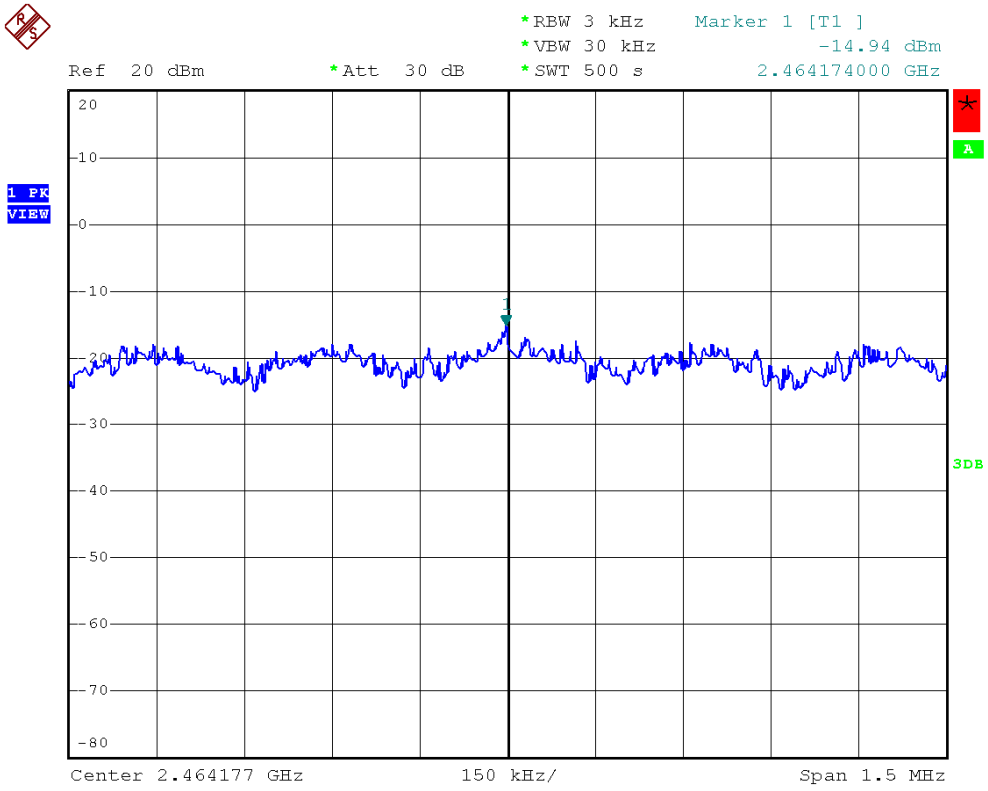
CH01



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-15.78 dBm
2.437003000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
3DB
Center 2.437003 GHz
150 kHz/
Span 1.5 MHz

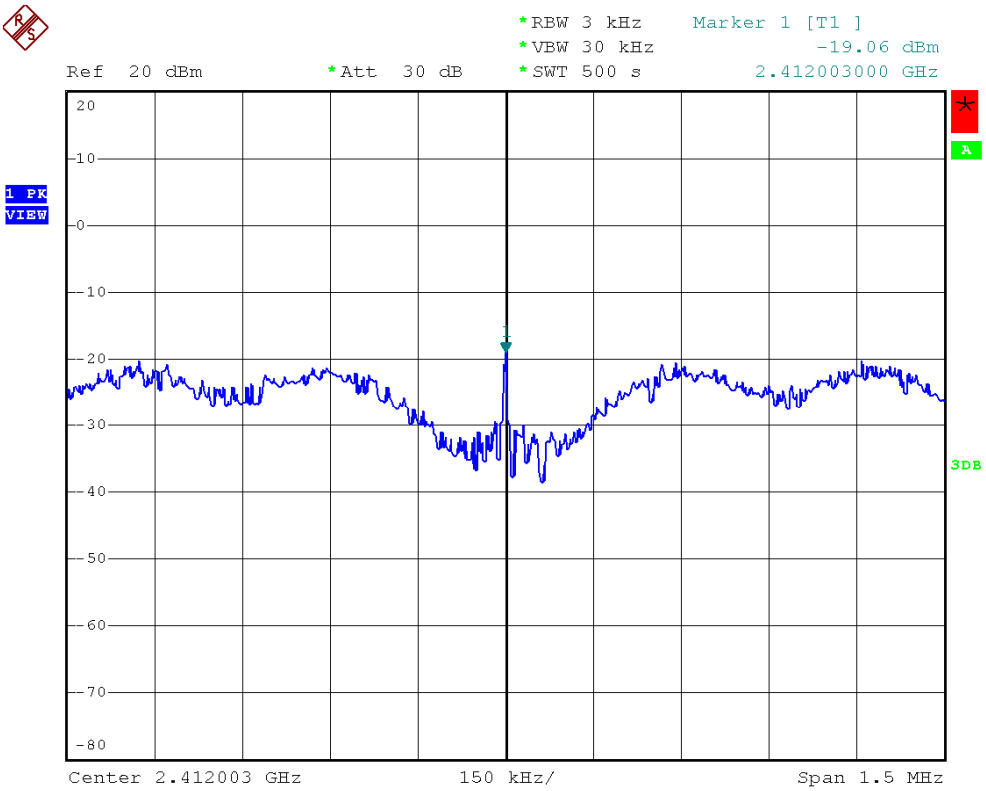
CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-14.94 dBm
2.464174000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
3DB
Center 2.464177 GHz
150 kHz/
Span 1.5 MHz

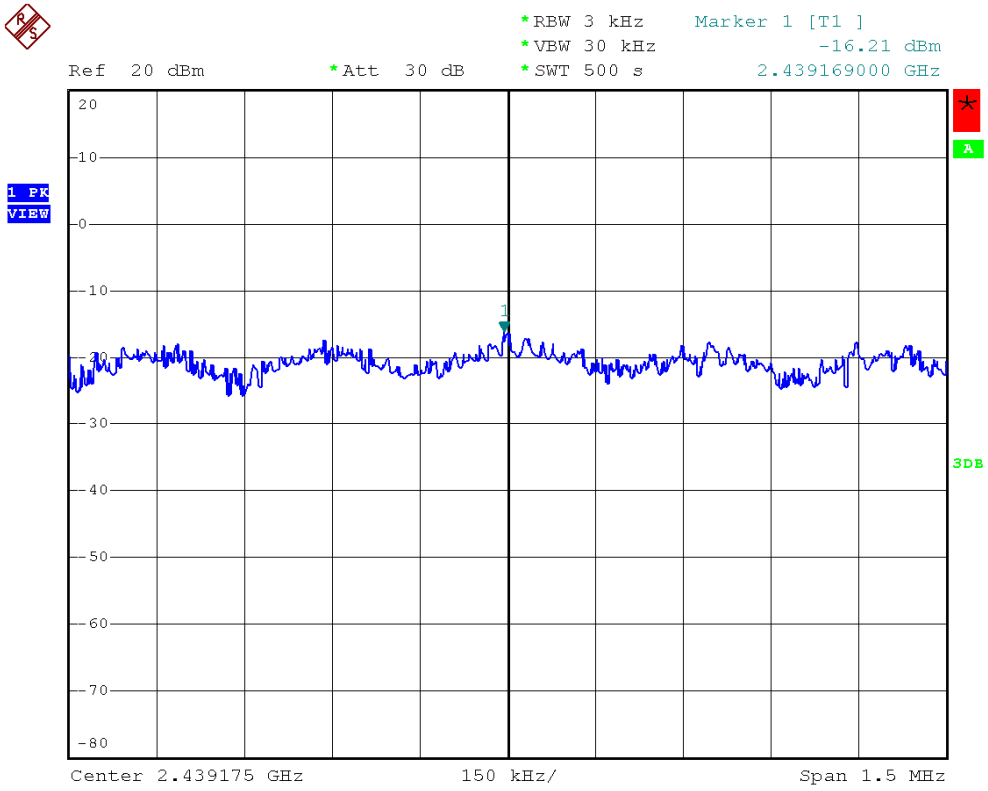
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/20M/CH01, CH06, CH11(TX No.2)		

Test Channel	Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	LIMIT (dBm)
CH01	2412	-19.06	0.01	8
CH06	2437	-16.21	0.02	8
CH11	2462	-16.22	0.02	8

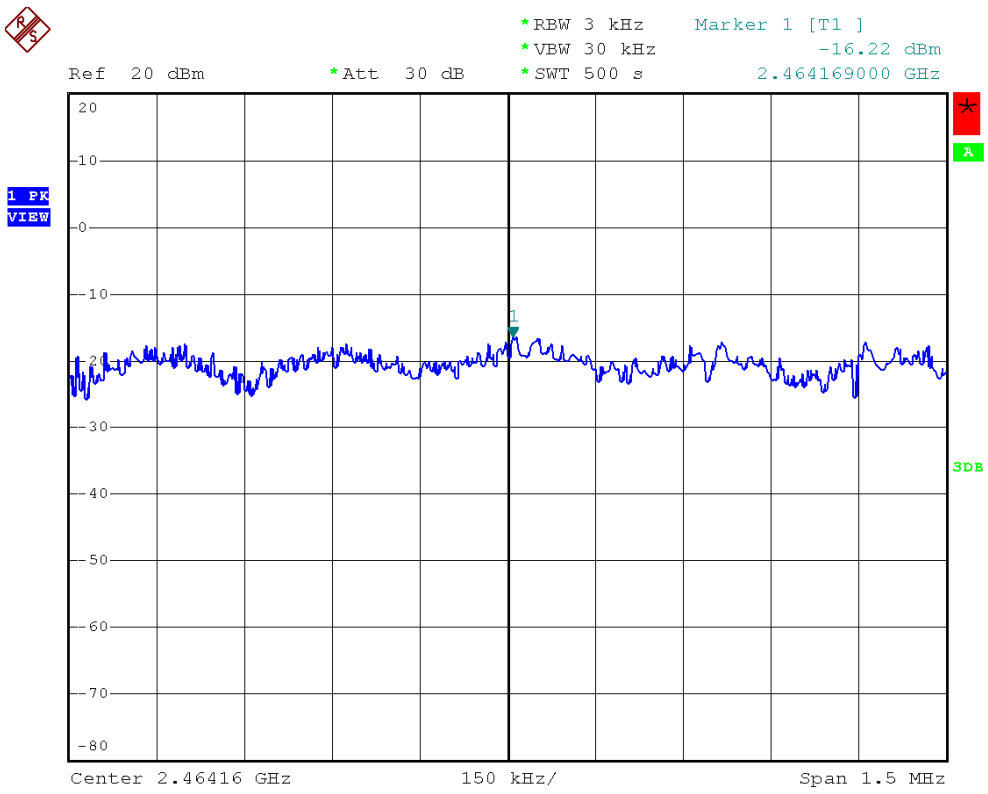
CH01



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-16.21 dBm
2.439169000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
3DB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.439175 GHz
150 kHz/
Span 1.5 MHz

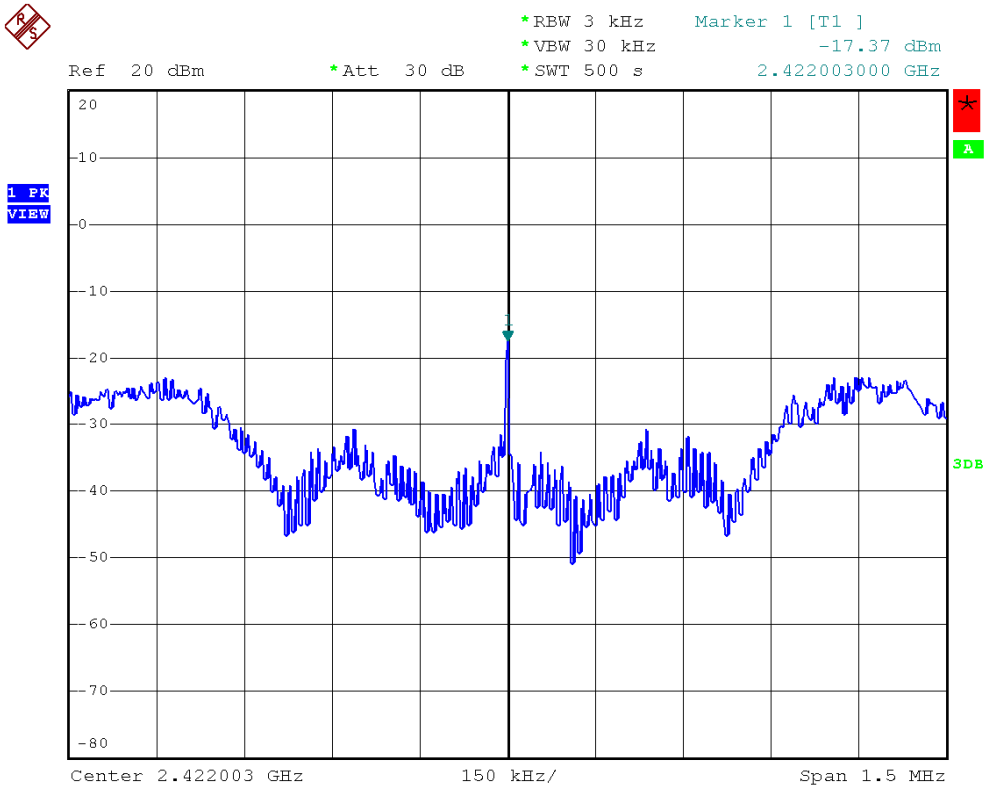
CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-16.22 dBm
2.464169000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
A
3DB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.46416 GHz
150 kHz/
Span 1.5 MHz

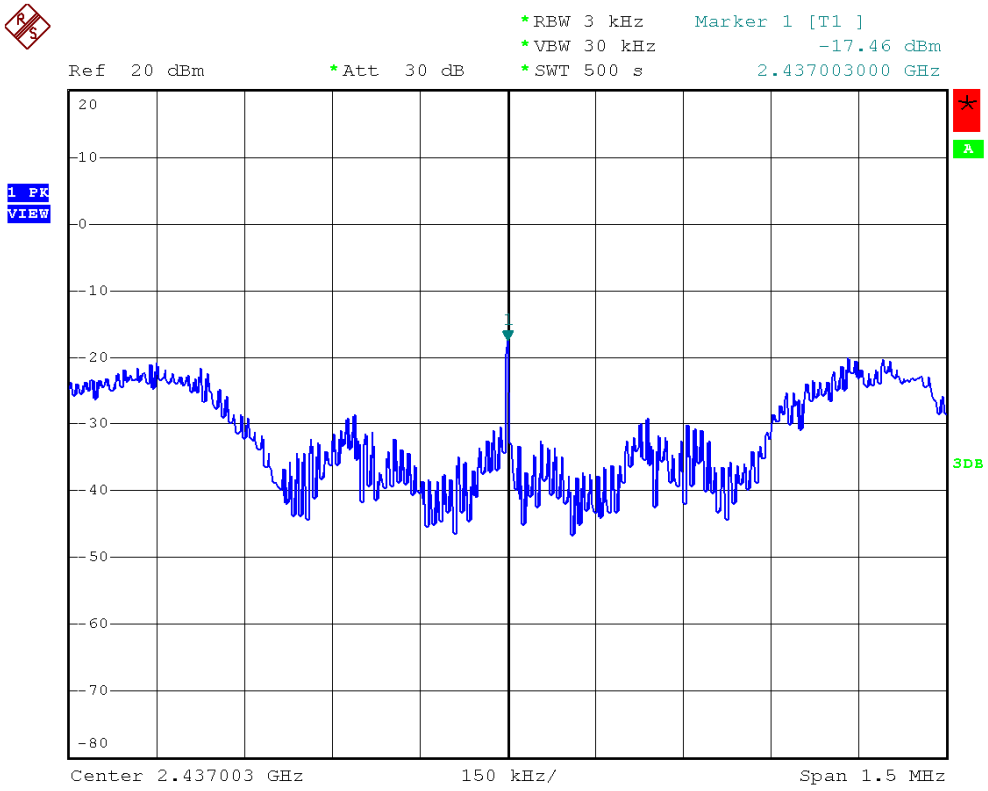
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03, CH06, CH09(TX No.1)		

Test Channel	Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	LIMIT (dBm)
CH01	2412	-17.37	0.02	8
CH06	2437	-17.46	0.02	8
CH11	2462	-18.84	0.01	8

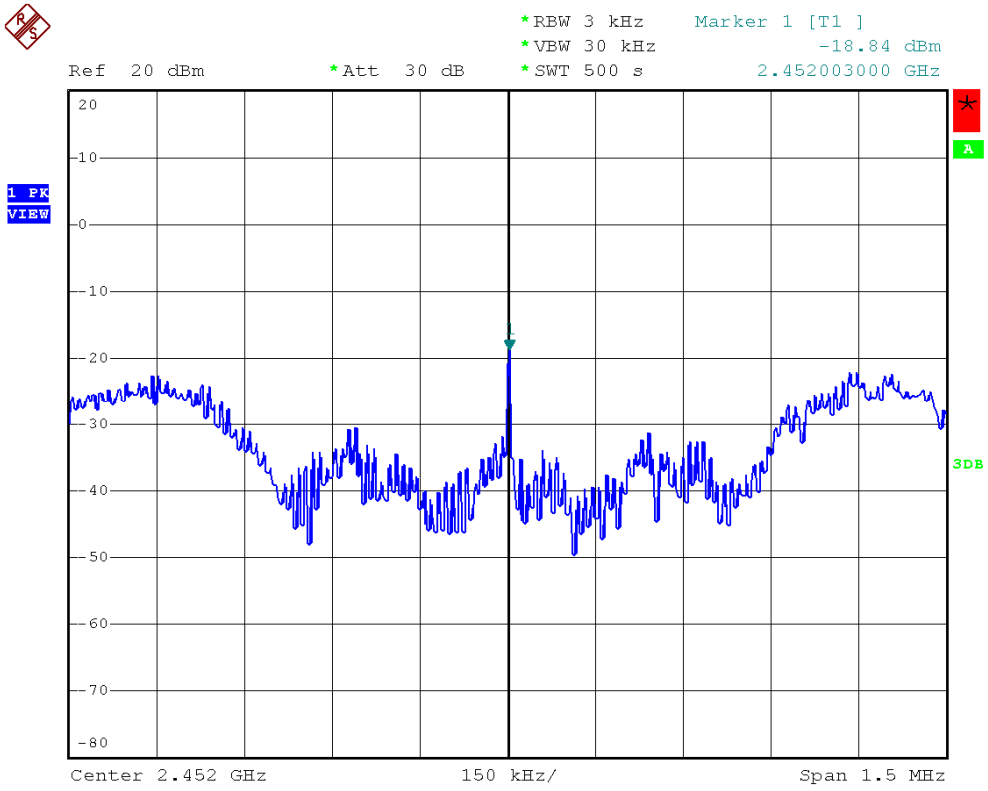
CH03



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-17.46 dBm
2.437003000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
3DB
Center 2.437003 GHz
150 kHz/
Span 1.5 MHz

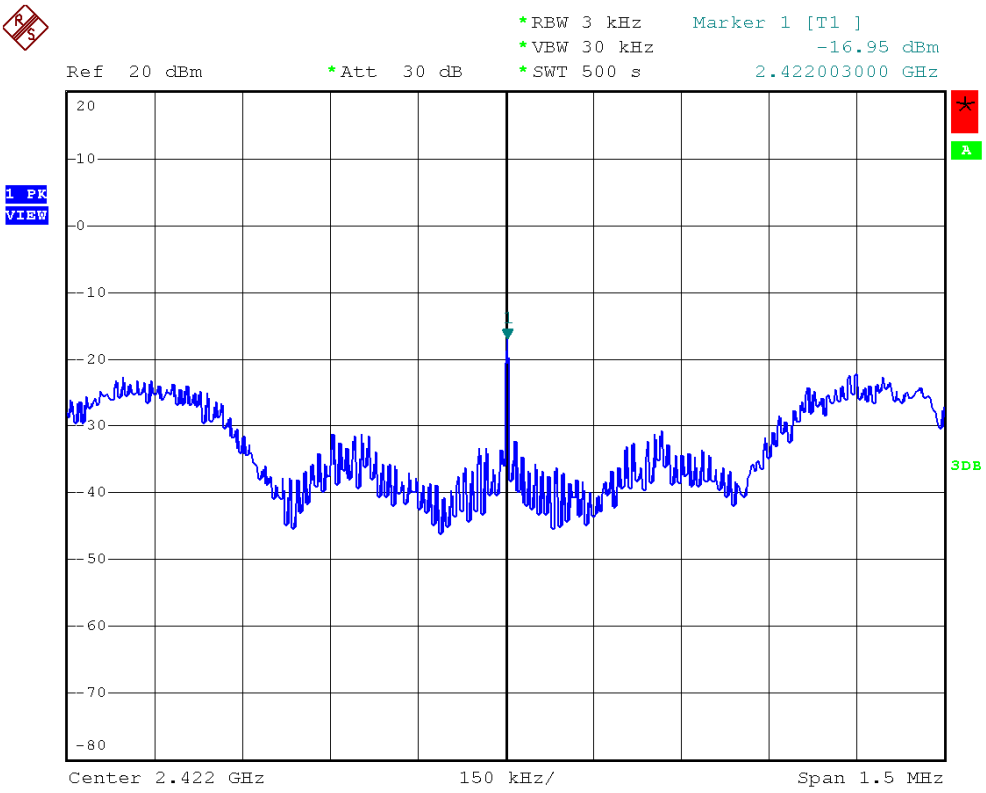
CH09


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-18.84 dBm
2.452003000 GHz
Ref 20 dBm
*Att 30 dB
1 PK
VIEW
3DB
Center 2.452 GHz
150 kHz/
Span 1.5 MHz

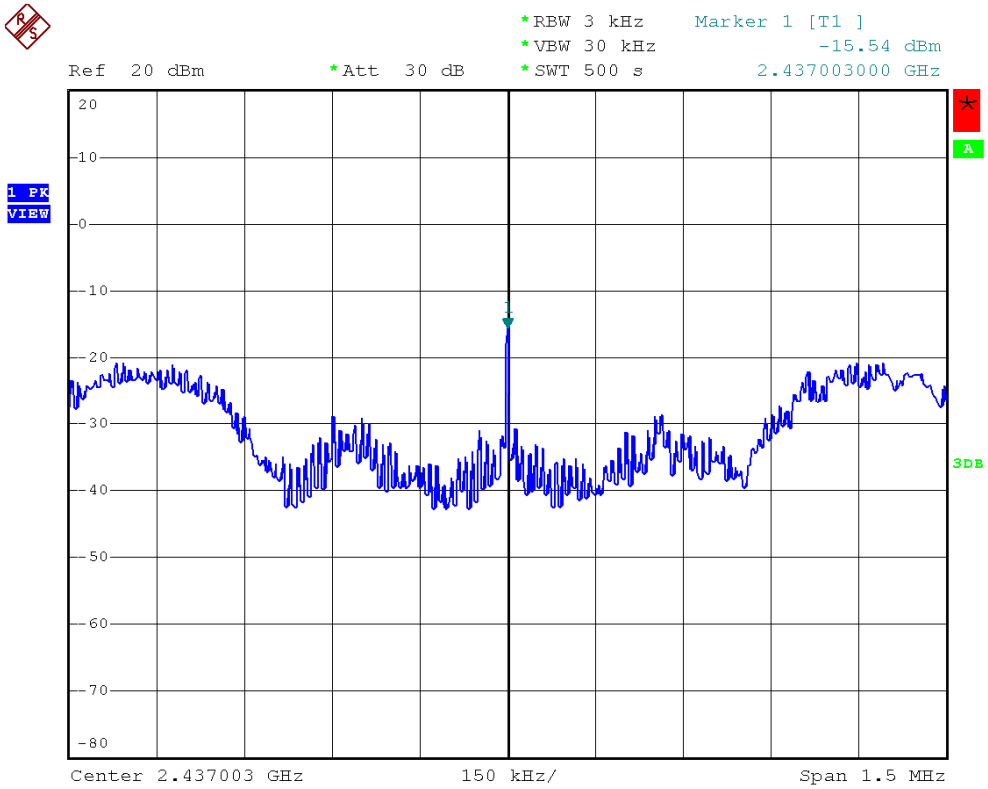
EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n/40M/CH03, CH06, CH09(TX No.2)		

Test Channel	Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	LIMIT (dBm)
CH01	2412	-16.95	0.02	8
CH06	2437	-15.54	0.03	8
CH11	2462	-16.14	0.02	8

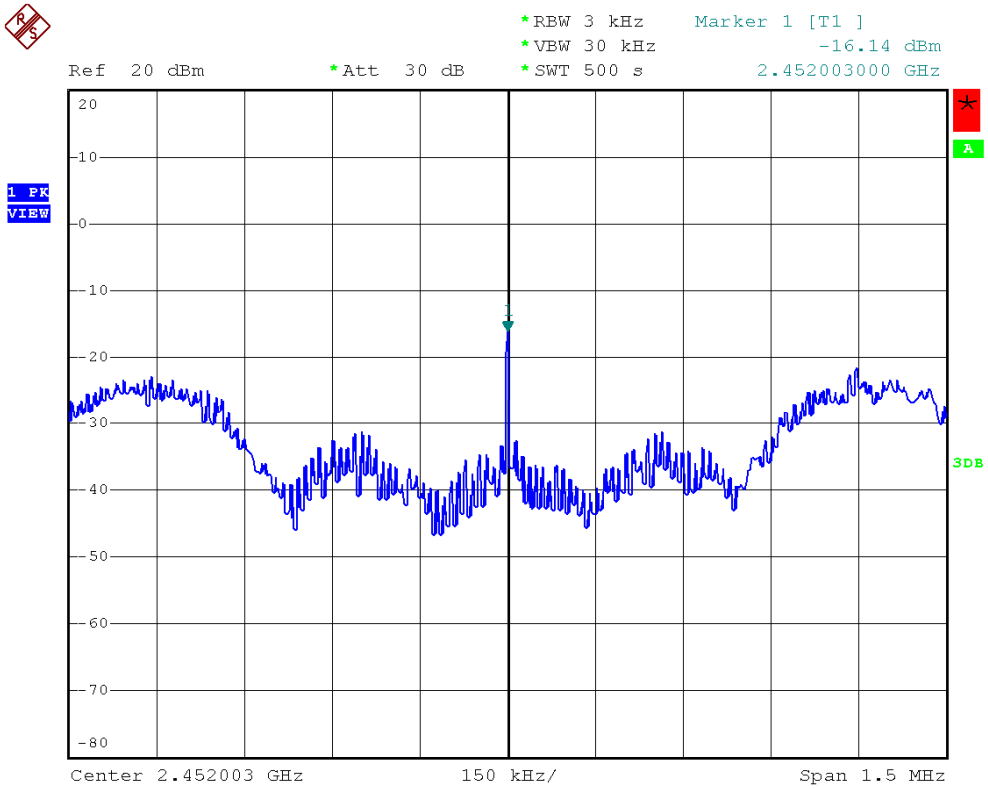
CH03



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-15.54 dBm
2.437003000 GHz
Ref 20 dBm
*Att 30 dB
1 PK VIEW
3DB
Center 2.437003 GHz
150 kHz/
Span 1.5 MHz

CH09


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-16.14 dBm
2.452003000 GHz
Ref 20 dBm
*Att 30 dB
1 PK VIEW
3DB
Center 2.452003 GHz
150 kHz/
Span 1.5 MHz

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^2)	Averaging Time $\|E\|^2$,$\|H\|^2$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^2)	Averaging Time $\|E\|^2$,$\|H\|^2$ 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, 2011
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2011

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

9.1.2 MPE CALCULATION METHOD

E (V/m) $= \frac{\sqrt{30 \times P \times G}}{d}$ Power Density: *Pd* (W/m²) $= \frac{E^2}{377}$

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

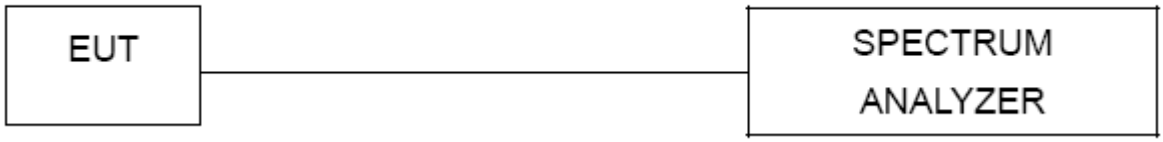
Pd $= \frac{30 \times P \times G}{377 \times d^2}$

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：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	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^2)	Limit of Power Density (S) (mW/cm^2)
2412	3.00	1.9953	14.4500	27.8612	0.011065	1
2437	3.00	1.9953	14.0000	25.1189	0.009976	1
2462	3.00	1.9953	14.0800	25.5859	0.010161	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	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^2)	Limit of Power Density (S) (mW/cm^2)
2412	3.00	1.9953	24.7400	297.8516	0.118291	1
2437	3.00	1.9953	24.5300	283.7919	0.112707	1
2462	3.00	1.9953	23.8100	240.4363	0.095488	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n HT20 Single TX (TX No.1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	3.00	1.9953	19.7800	95.06050	0.037753	1
2437	3.00	1.9953	21.9600	157.0363	0.062366	1
2462	3.00	1.9953	22.1800	165.1962	0.065607	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n HT20 Single TX (TX No.2)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	3.00	1.9953	18.9700	78.8860	0.031329	1
2437	3.00	1.9953	21.4000	138.0384	0.054821	1
2462	3.00	1.9953	21.5700	143.5489	0.057010	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n HT20 Dual TX (TX No.1 + TX No.2)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2412	6.00	3.9811	22.4042	173.9465	0.137837	1
2437	6.00	3.9811	24.6993	295.0747	0.233820	1
2462	6.00	3.9811	24.8960	308.7451	0.244653	1

Remark：

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

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n HT40 Single TX (TX No.1)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2422	3.00	1.9953	20.2000	104.7129	0.041586	1
2437	3.00	1.9953	21.8100	151.7050	0.060249	1
2452	3.00	1.9953	20.2000	104.7129	0.041586	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n HT40 Single TX (TX No.2)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2422	3.00	1.9953	20.2100	104.9542	0.041682	1
2437	3.00	1.9953	21.8400	152.7566	0.060667	1
2452	3.00	1.9953	20.1000	102.3293	0.040640	1

EUT：	Wireless N Broadband Router	Model Name ：	BR-6425N
Temperature：	13℃	Relative Humidity：	64%
Test Voltage：	AC 120V/60Hz		
Test Mode ：	802.11n HT40 Dual TX (TX No.1 + TX No.2)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)
2422	6.00	3.9811	23.2153	209.6671	0.166142	1
2437	6.00	3.9811	24.8353	304.4616	0.241259	1
2452	6.00	3.9811	23.1606	207.0422	0.164062	1

Remark：

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

11. HISTORY

Original Issue Date:	
Report No.:	
■ No additional attachment	
☐ Additional attachment were issued as following record:	

Attachment No.	Issue Date	Description