FCC RADIO TEST REPORT
FCC ID: HHOYC004

Product：	300Mbps High Power Gigabit Wireless Router
Trade Name：	JCG
Model Name：	JHR-N926R+
Serial Model：	N/A
Report No.：	NTEK- 2013NT0305246F

Prepared for

Shenzhen Yichen Technoloy Development Co., Ltd.

5F, No.1, Honghualing 2nd industrial Zone, Xili Town, Nanshan District, Shenzhen, Guangdong, People's Republic Of China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community,Xixiang Street
Bao'an District, Shenzhen P.R. China
Tel.: +86-0755-61156588 Fax.: +86-0755-61156599
Website:www.ntek.org.cn

TEST RESULT CERTIFICATION

Applicant's name	:	Shenzhen Yichen Technoloy Development Co., Ltd.
Address	:	5F, No.1, Honghualing 2nd industrial Zone, Xili Town, Nanshan District, Shenzhen, Guangdong, People's Republic Of China
Manufacture's Name	:	Shenzhen Yichen Technoloy Development Co., Ltd.
Address	:	5F, No.1, Honghualing 2nd industrial Zone, Xili Town, Nanshan District, Shenzhen, Guangdong, People's Republic Of China

Product description

Product name	:	300Mbps High Power Gigabit Wireless Router
Model and/or type reference	:	JHR-N926R+
Serial Model	:	N/A
Standards	:	FCC Part15.247
Test procedure		ANSI C63.4-2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personal only, and shall be noted in the revision of the document.

Date of Test	:	
Date (s) of performance of tests	:	05 May. 2013 ~13 Mar. 2013
Date of Issue	:	14 Mar. 2013
Test Result	:	**Pass**

Testing Engineer : Apple Huang

(Apple Huang)

Technical Manager : Tom Zhang

(Tom Zhang)

Authorized Signatory : Bovey Yang

(Bovey Yang)

Table of Contents

Page

Table of Contents

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (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	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd
Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.
FCC Registration No.:238937; IC Registration No.:9270A-1
CNAS Registration No.:L5516

1.2 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** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>300Mbps High Power Gigabit Wireless Router</td></tr>
<tr><td>Trade Name</td><td>JCG</td></tr>
<tr><td>Model Name</td><td>JHR-N926R+</td></tr>
<tr><td>Serial Model</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a 300Mbps High Power Gigabit Wireless Router
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n(20):2412~2462 MHz
802.11n(40):2422~2452MHz</td></tr>
<tr><td>Modulation Type:</td><td>CCK/OFDM/DBPSK/DAPSK</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(20MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5 Mbps
802.11n(40MHz):300/270/240/180/150/120/108/90/54 Mbps</td></tr>
<tr><td>Number Of Channel</td><td>2412~2462MHz: 11CH
2422~2452MHz: 7CH</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Output Power(Conducted):</td><td>802.11b: 18.87 dBm (Max.)
802.11g: 18.67 dBm (Max.)
802.11n(20M) : 19.75 dBm (Max.)
802.11n(40M) : 18.78 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>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Ratings</td><td>DC 12V from adapter AC 120V/60Hz</td></tr>
<tr><td>Adapter</td><td>Model: F18W-120200SPAU,
AC Power Input: 100-240V~, 50/60Hz, 0.6A
Output: 12V ⎓ 2A</td></tr>
<tr><td>Battery</td><td>N/A</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
</table>

Note:

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

2.

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	external antenna	Reserve SMA-type	4.0	N/A
B	N/A	N/A	external antenna	Reserve SMA-type	4.0	N/A

For MIMO mode , Directional gain=GANT +10log(N)dbi =7dbi

The Control software(tool_WIFI.exe) can control antenna A and antenna B, For 802.11b/g mode, when antenna A is transmitting, antenna B closed, when antenna B is transmitting, antenna A closed. And the data of antenna A is recorded for radiated emission and band edge.

For 802.11n mode ,two antennas simultaneously transmit. And the data is recorded for radiated emission and band edge.

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20) CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Normail Link

For Conducted Emission	
Final Test Mode	Description
Mode 5	Normail Link

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20) CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9

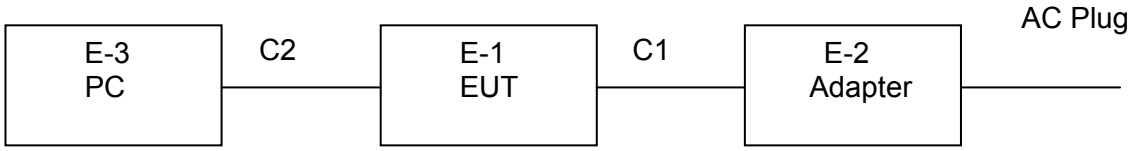
Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

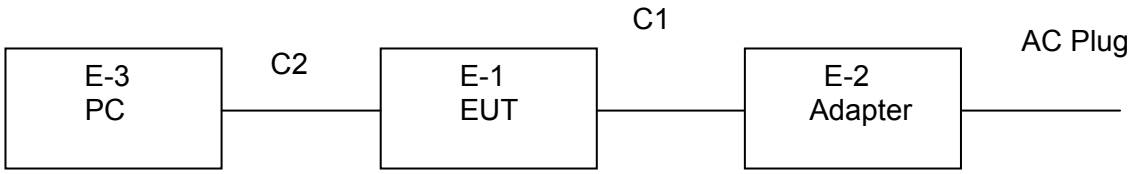
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	300Mbps High Power Gigabit Wireless Router	JCG	JHR-N926R+	N/A	EUT
E-2	Notebook computer	IBM	2366	N/A	
E-3	Adapter	N/A	F18W-120200SPAU	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	
C1	NO	NO	1.2M	

Note:

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

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2013
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2013
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2013
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2013
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2013
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2013
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2013
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2013
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2013
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2013

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2013
2	LISN	R&S	ENV216	101313	Jul. 06. 2013
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2013
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2013
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2013
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2013

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

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

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

Note:

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

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

The following table is the setting of the receiver

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

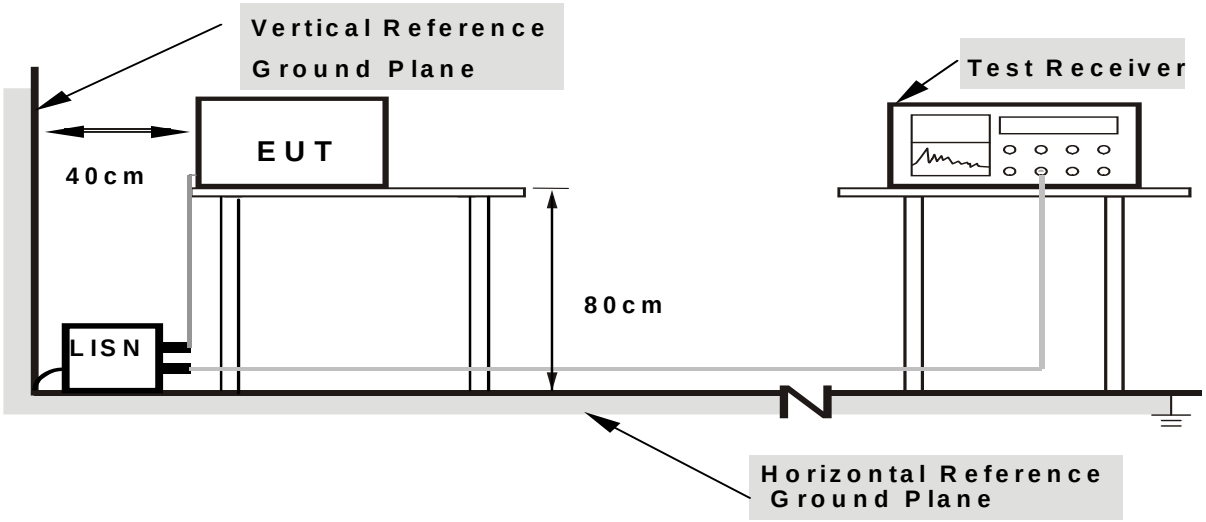
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.4 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.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

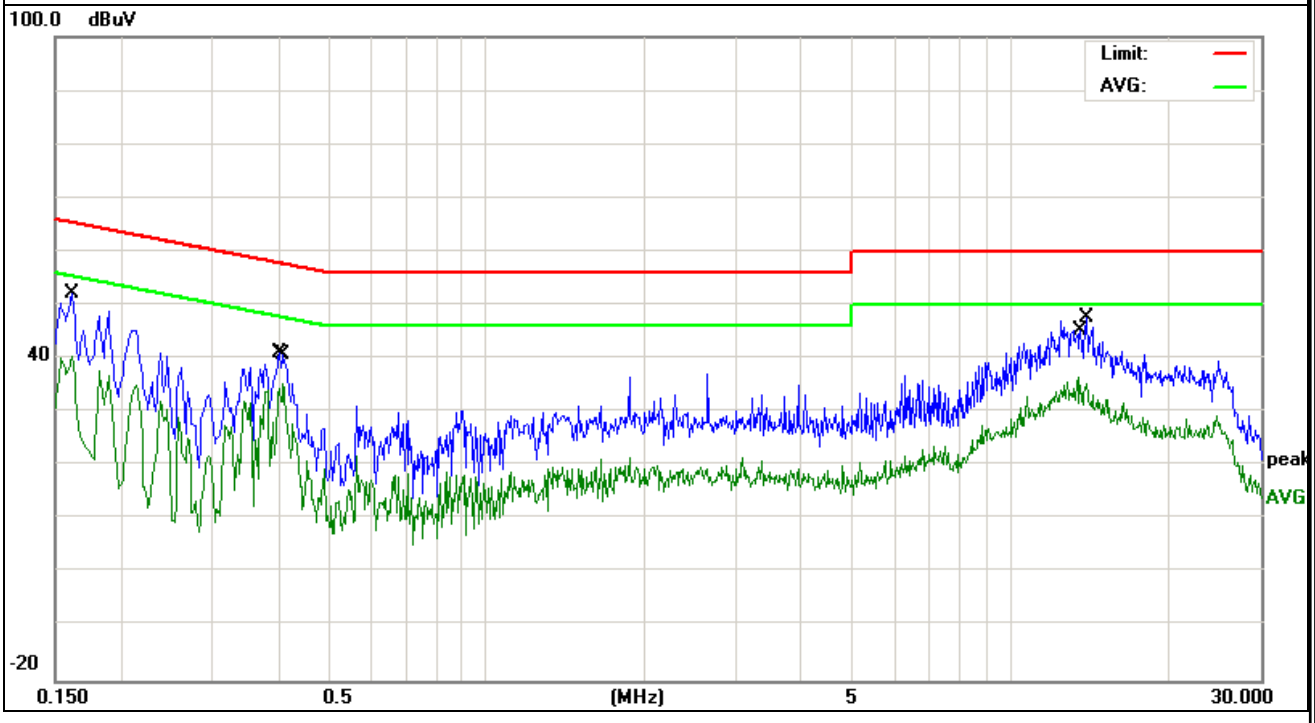
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

EUT：	300Mbps High Power Gigabit Wireless Router	Model Name. ：	JHR-N926R+
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 12V from adapter AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.162	42.47	9.81	52.28	65.36	-13.08	QP
0.162	30.69	9.81	40.5	55.36	-14.86	AVG
0.402	31.12	10.06	41.18	57.81	-16.63	QP
0.41	25.3	10.07	35.37	47.65	-12.28	AVG
13.4779	26.1	10.43	36.53	50	-13.47	AVG
13.9619	37.2	10.46	47.66	60	-12.34	QP

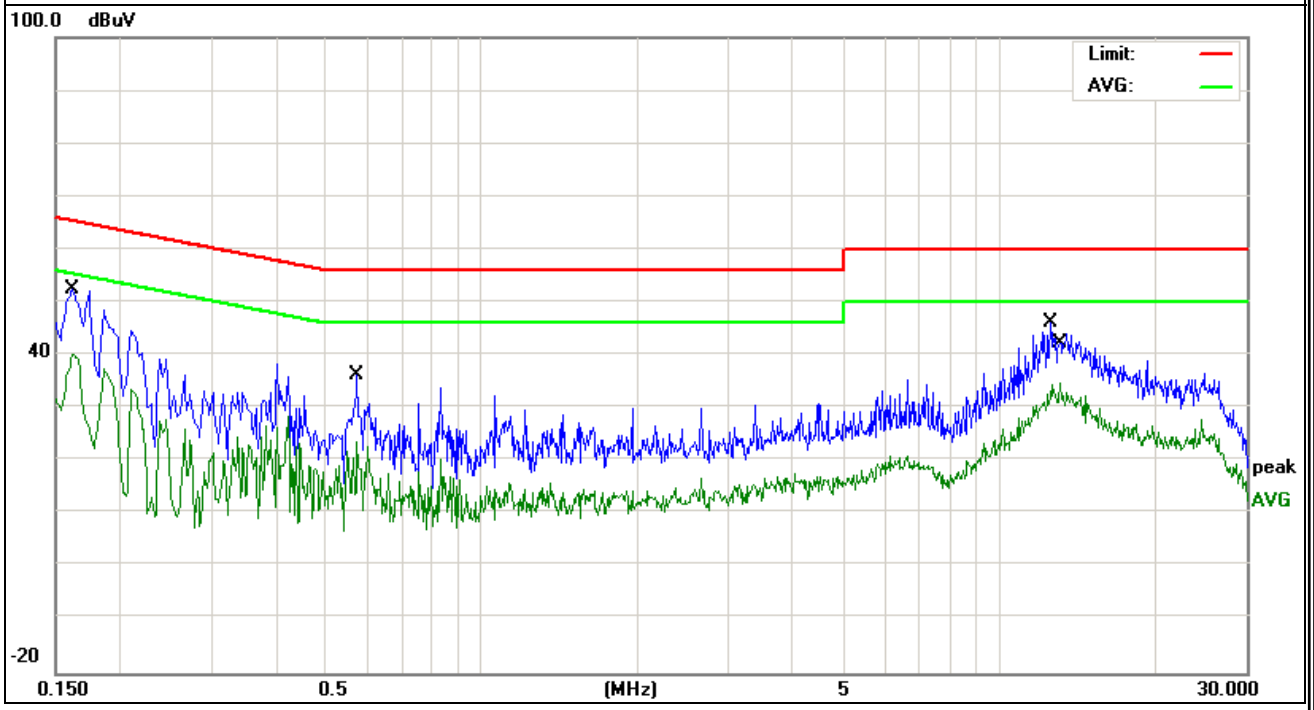
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name. ：	JHR-N926R+
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 12V from adapter AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.162	42.5	9.81	52.31	65.36	-13.05	QP
0.162	30.43	9.81	40.24	55.36	-15.12	AVG
0.574	25.99	10.2	36.19	56	-19.81	QP
0.574	13.53	10.2	23.73	46	-22.27	AVG
12.5499	35.9	10.35	46.25	60	-13.75	QP
13.1139	24.2	10.4	34.6	50	-15.4	AVG

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (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 15C.

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / *10Hz* for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

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

Note:

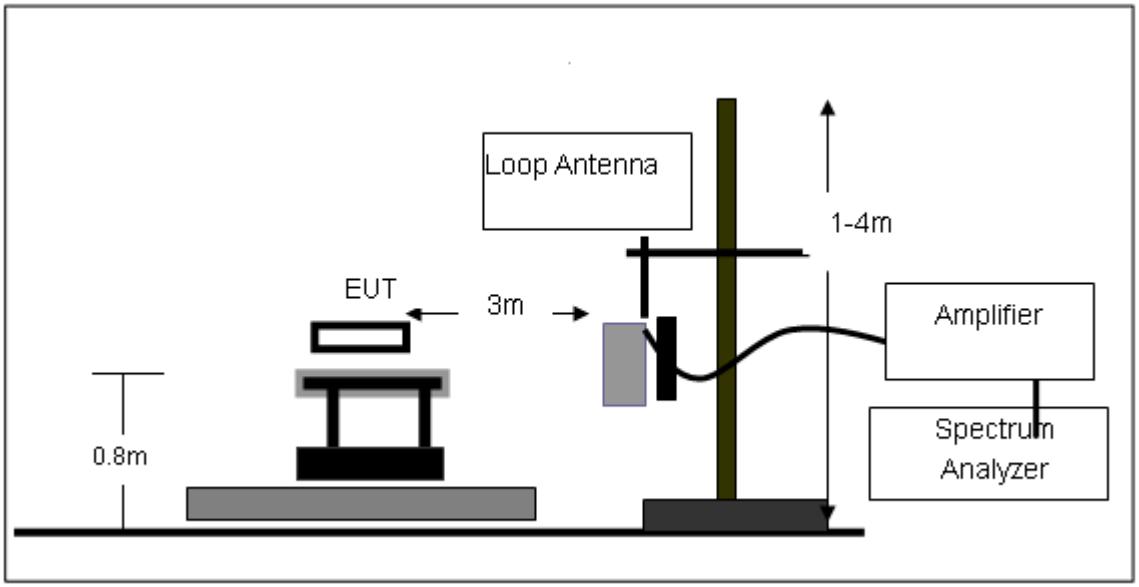
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

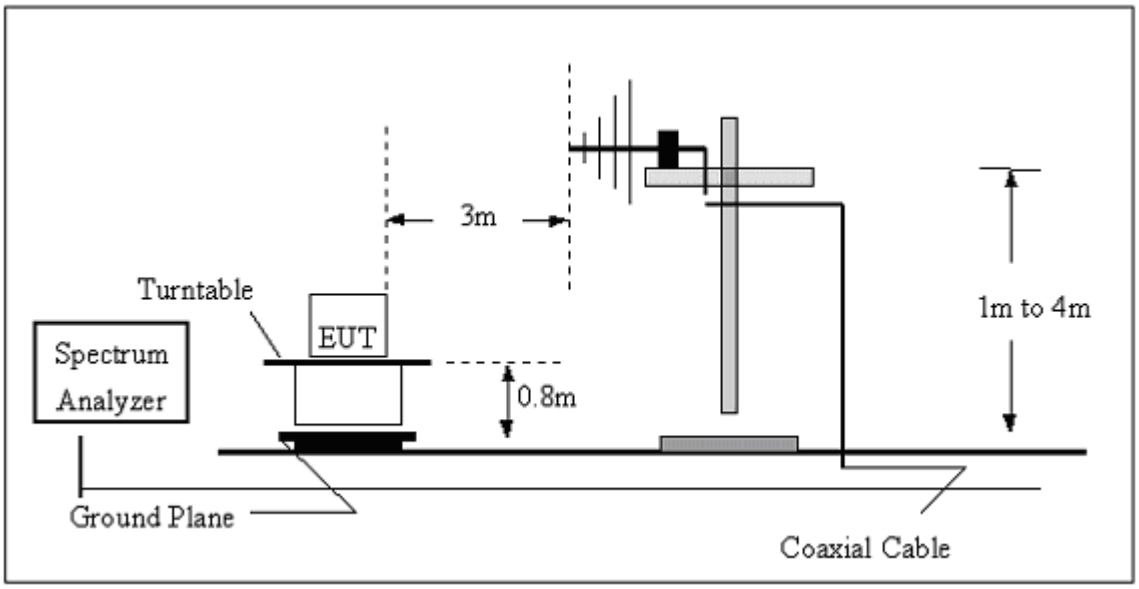
No deviation

3.2.4 TEST SETUP

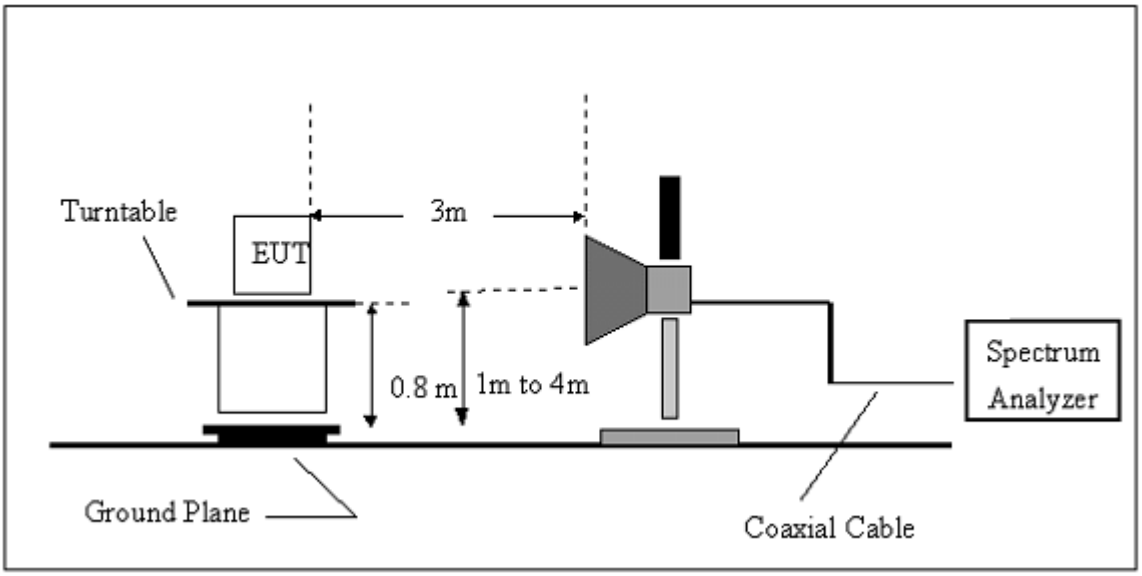
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT：	300Mbps High Power Gigabit Wireless Router	Model Name. ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

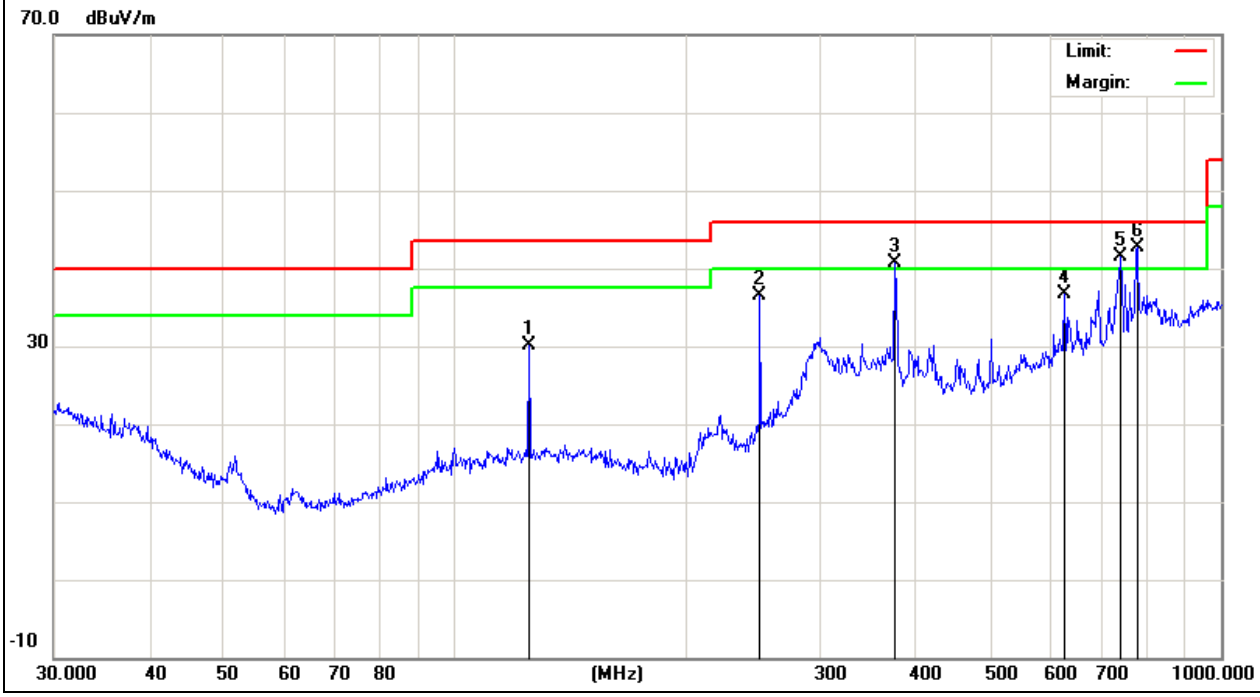
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =20 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
125.0066	17.85	12.21	30.06	43.5	-13.44	QP
250.3009	23.04	13.54	36.58	46	-9.42	QP
374.6225	23.72	16.9	40.62	46	-5.38	QP
625.0778	13.2	23.6	36.8	46	-9.2	QP
739.6603	15.04	26.47	41.51	46	-4.49	QP
776.8777	16.63	26.15	42.78	46	-3.22	QP

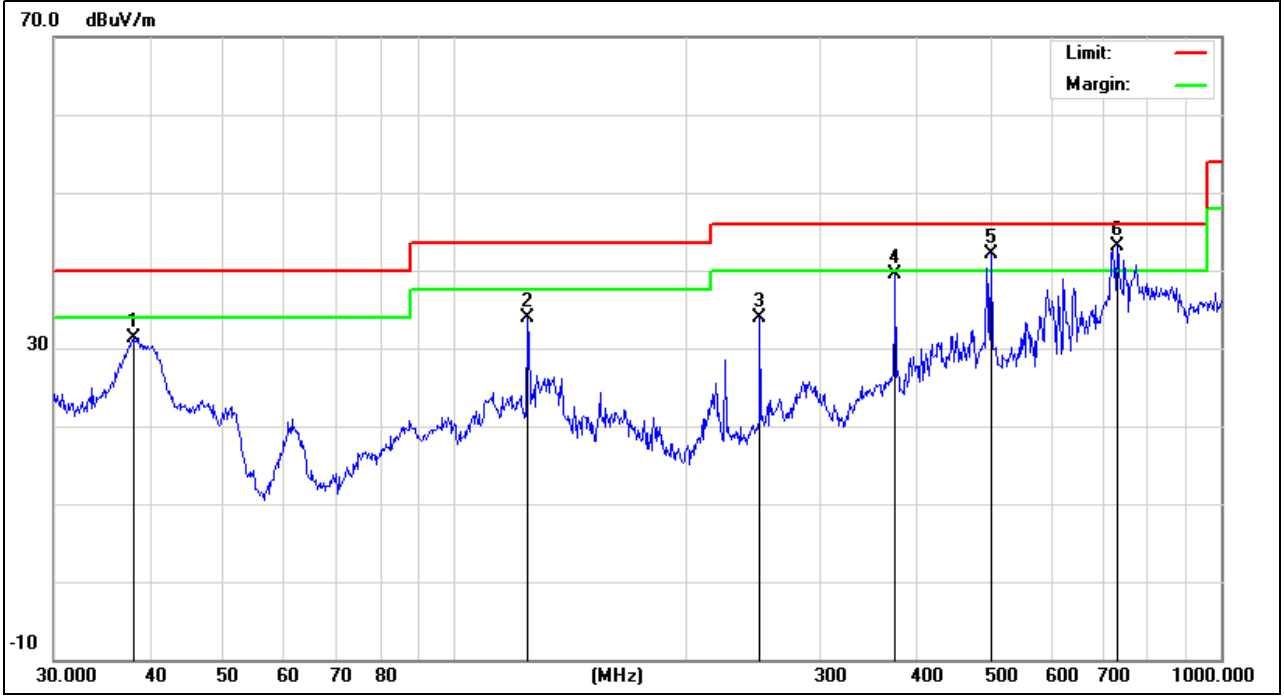
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
38.0782	16.96	14.34	31.3	40	-8.7	QP
124.569	21.7	12.2	33.9	43.5	-9.6	QP
250.3009	20.44	13.54	33.98	46	-12.02	QP
375.9384	22.58	16.96	39.54	46	-6.46	QP
501.1788	21.32	20.72	42.04	46	-3.96	QP
731.9202	16.83	26.3	43.13	46	-2.87	QP

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

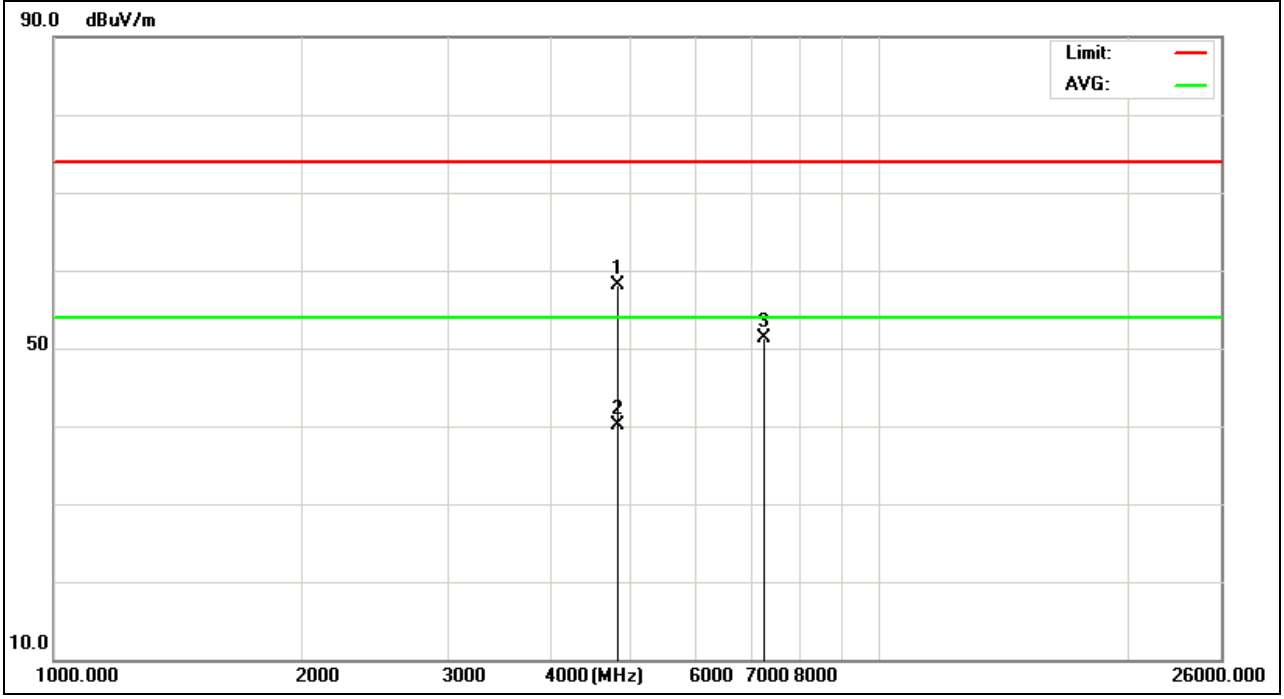


3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1 (802.11b Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.243	47.76	10.44	58.2	74	-15.8	peak
4824.243	29.68	10.44	40.12	54	-13.88	AVG
7236.158	38.94	12.39	51.33	74	-22.67	peak

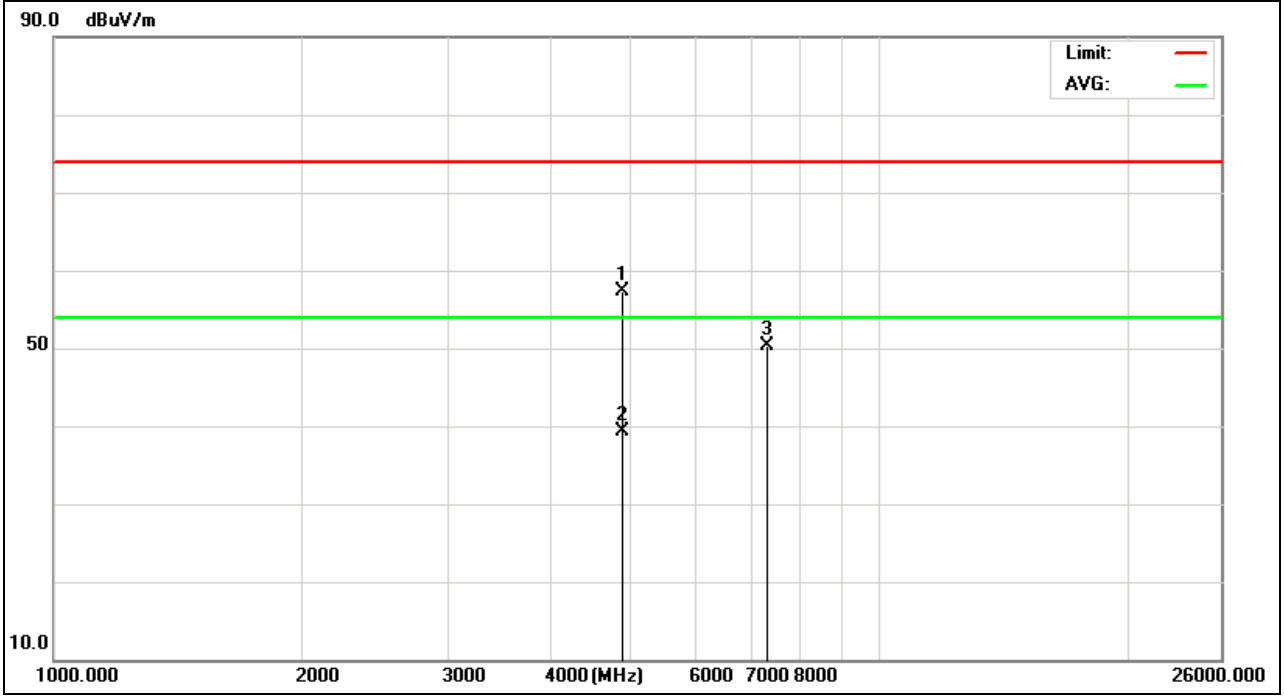
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1 (802.11b Mode)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.059	46.95	10.4	57.35	74	-16.65	peak
4874.059	28.82	10.4	39.22	54	-14.78	AVG
7311.186	37.62	12.75	50.37	74	-23.63	peak

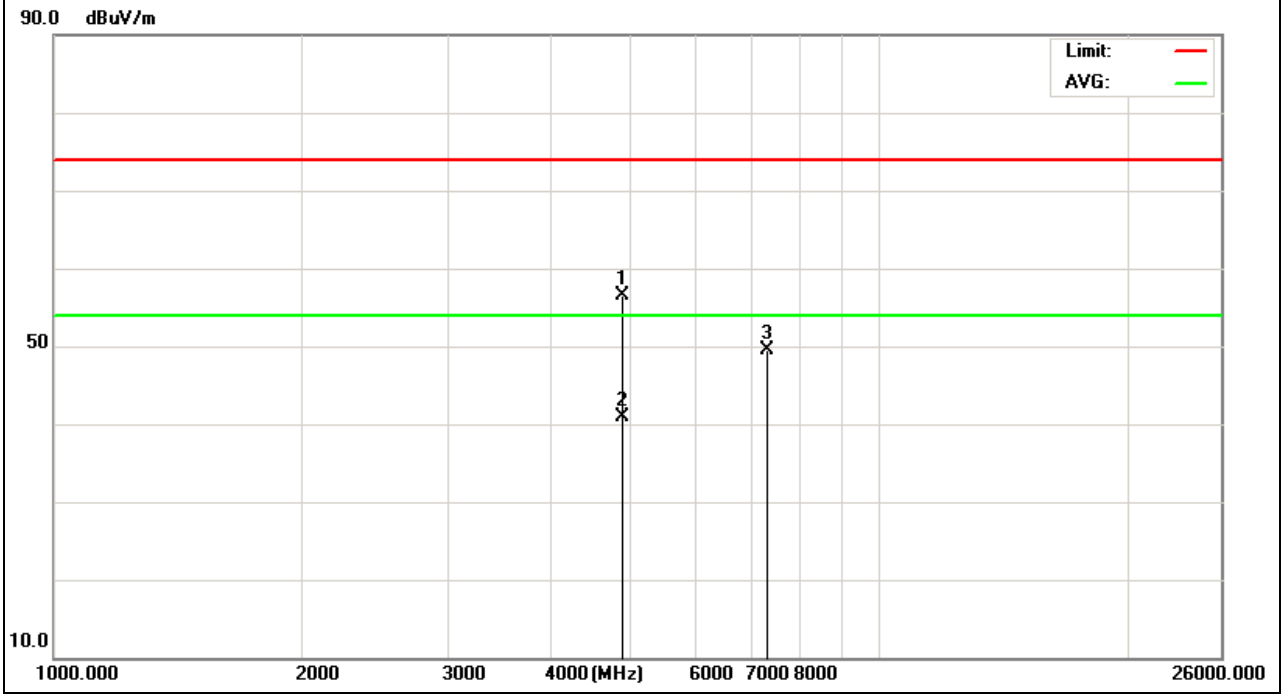
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11b Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.142	46.17	10.4	56.57	74	-17.43	peak
4874.142	30.56	10.4	40.96	54	-13.04	AVG
7311.12	36.68	12.75	49.43	74	-24.57	peak

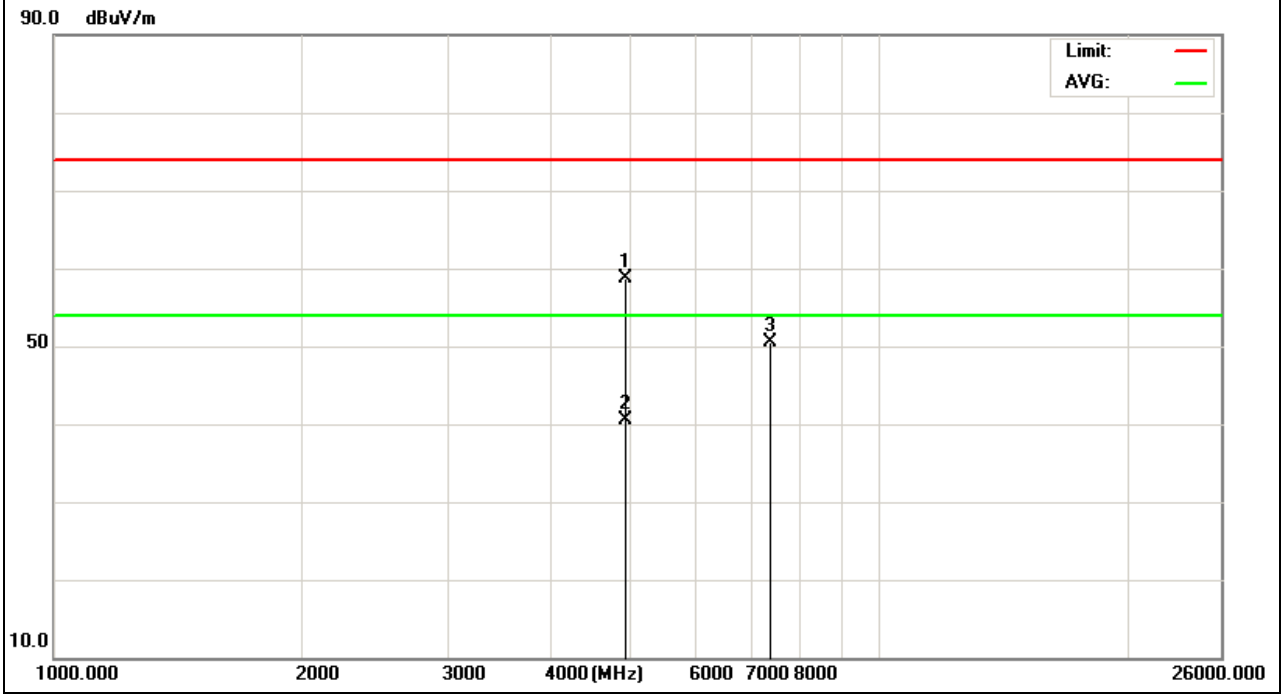
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11b Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.183	48.24	10.39	58.63	74	-15.37	peak
4934.183	30.08	10.44	40.52	54	-13.48	AVG
7386.247	37.73	12.68	50.41	74	-23.59	peak

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz

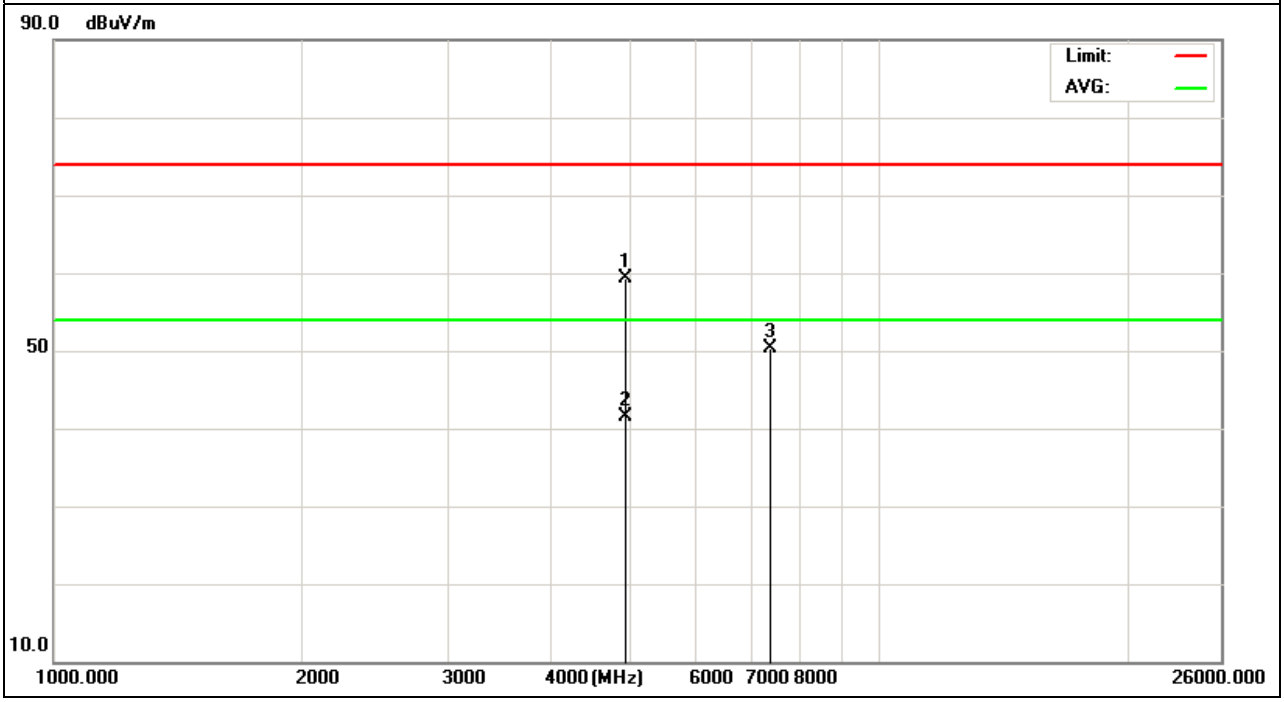


EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11 (802.11b Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.105	48.96	10.39	59.35	74	-14.65	peak
4924.105	31.08	10.39	41.47	54	-12.53	AVG
7386.133	37.55	12.68	50.23	74	-23.77	peak

Remark:

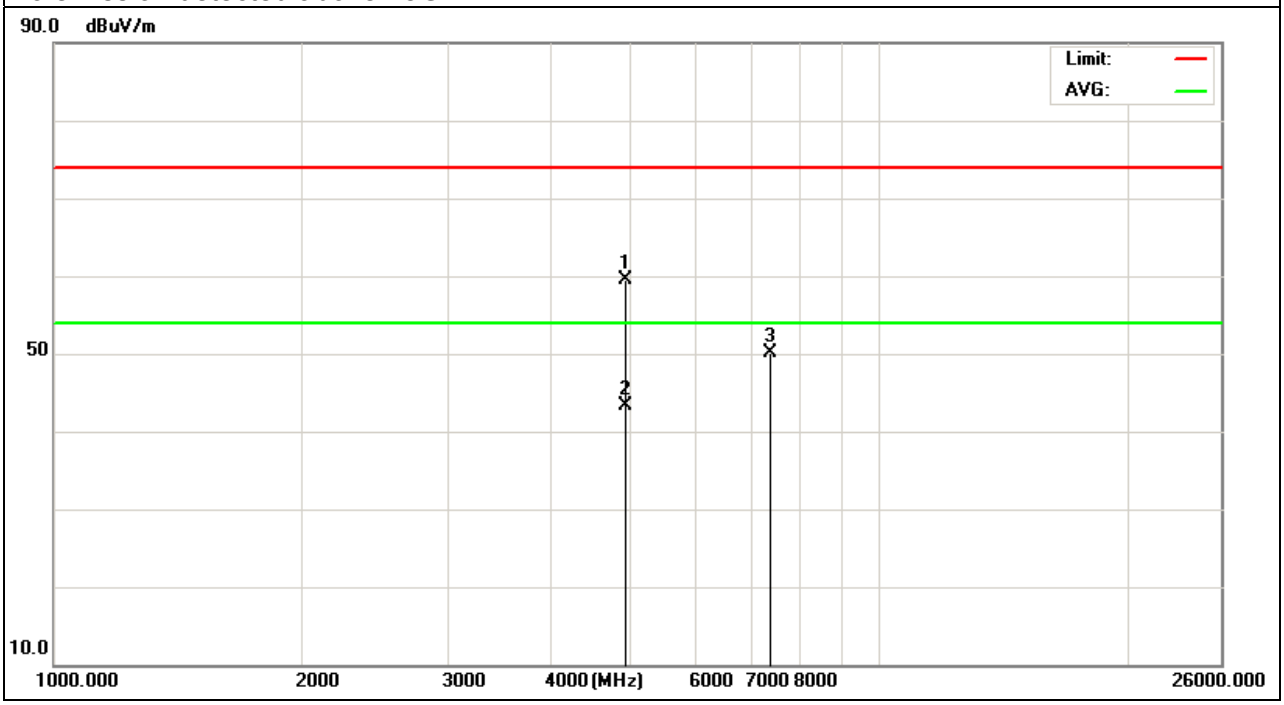
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11 (802.11b Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.216	49.02	10.39	59.41	74	-14.59	peak
4924.216	32.9	10.39	43.29	54	-10.71	AVG
7386.158	37.4	12.68	50.08	74	-23.92	peak

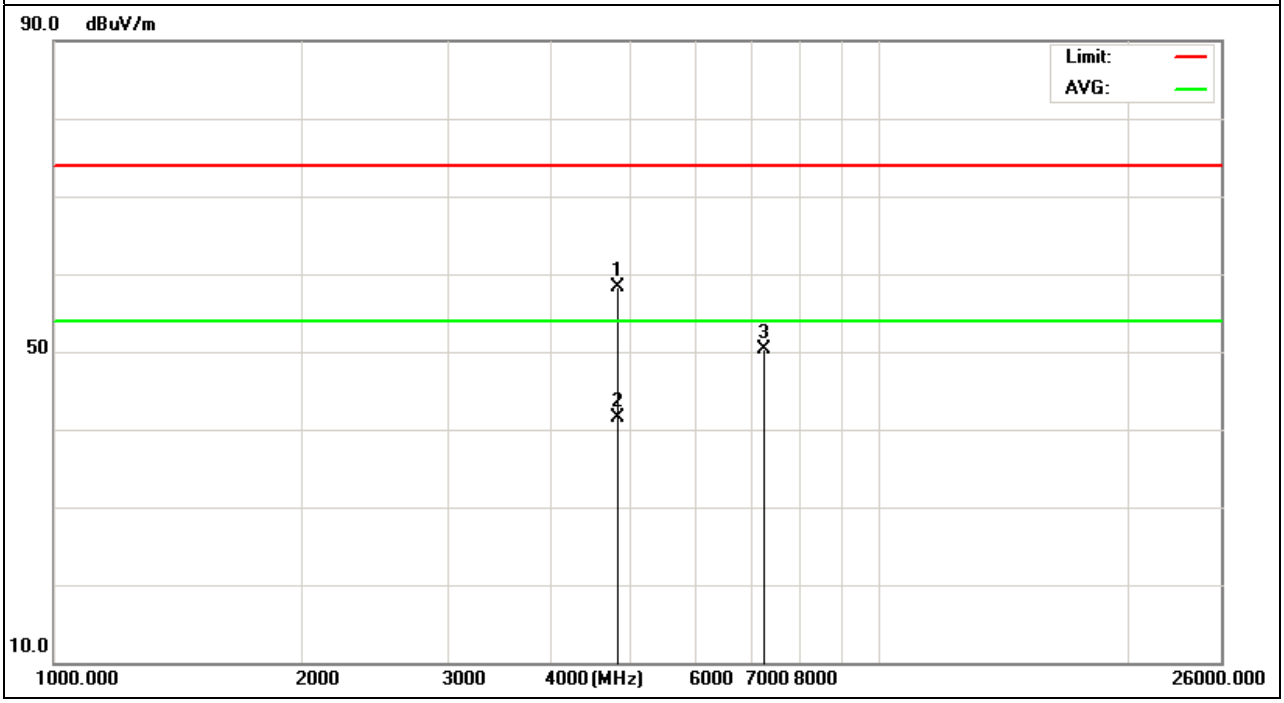
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1 (802.11g Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.036	47.95	10.44	58.39	74	-15.61	peak
4824.036	30.98	10.44	41.42	54	-12.58	AVG
7236.157	37.89	12.39	50.28	74	-23.72	peak

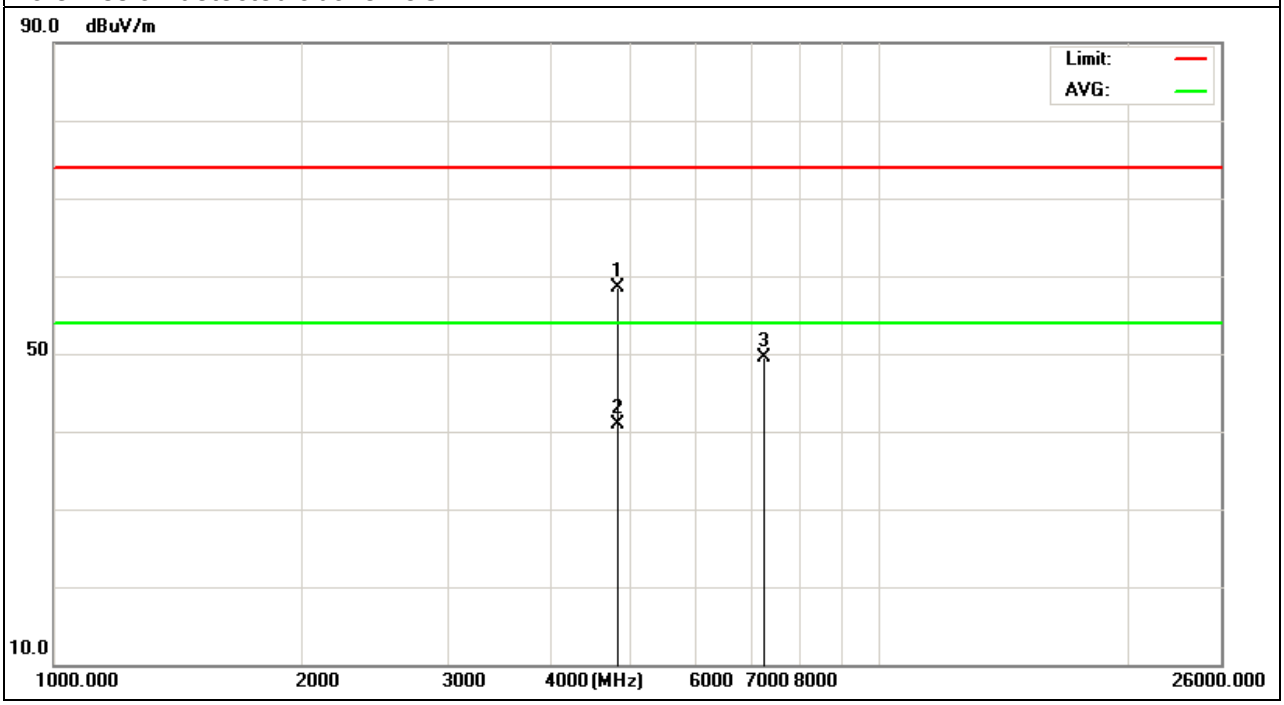
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1 (802.11g Mode)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.107	48.02	10.44	58.46	74	-15.54	peak
4824.107	30.45	10.44	40.89	54	-13.11	AVG
7236.156	37.04	12.39	49.43	74	-24.57	peak

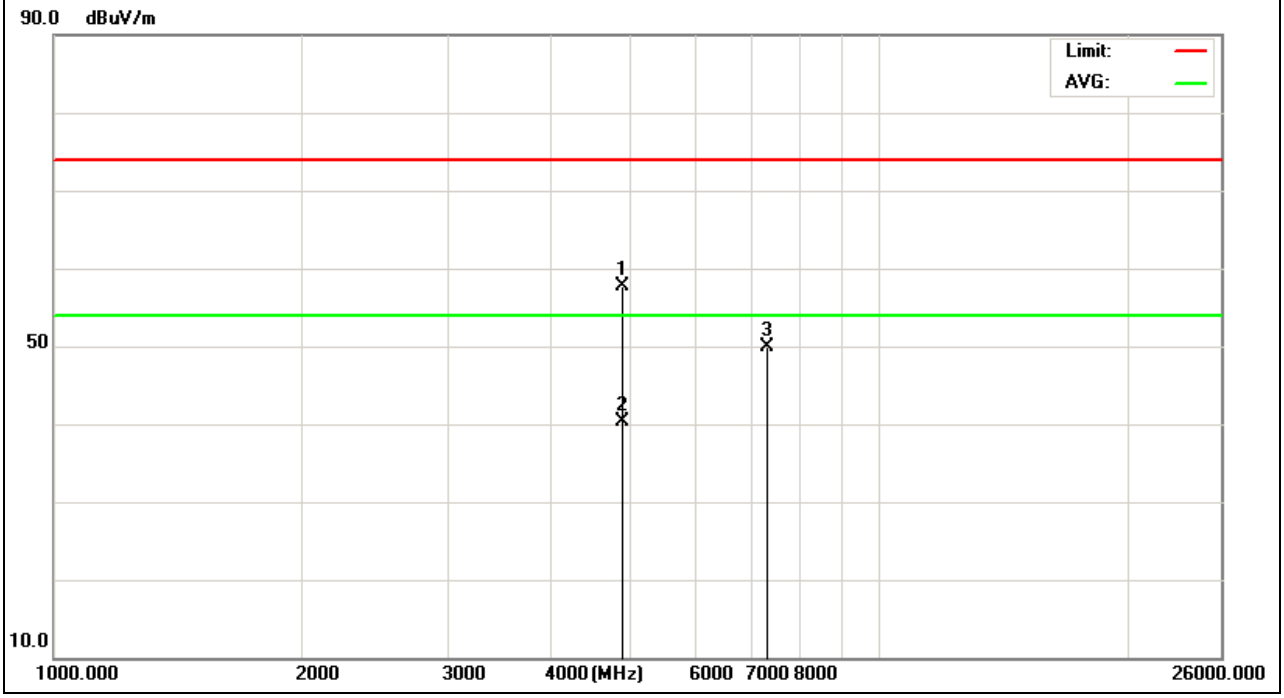
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11g Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.136	47.24	10.4	57.64	74	-16.36	peak
4874.136	29.93	10.4	40.33	54	-13.67	AVG
7311.179	37.23	12.75	49.98	74	-24.02	peak

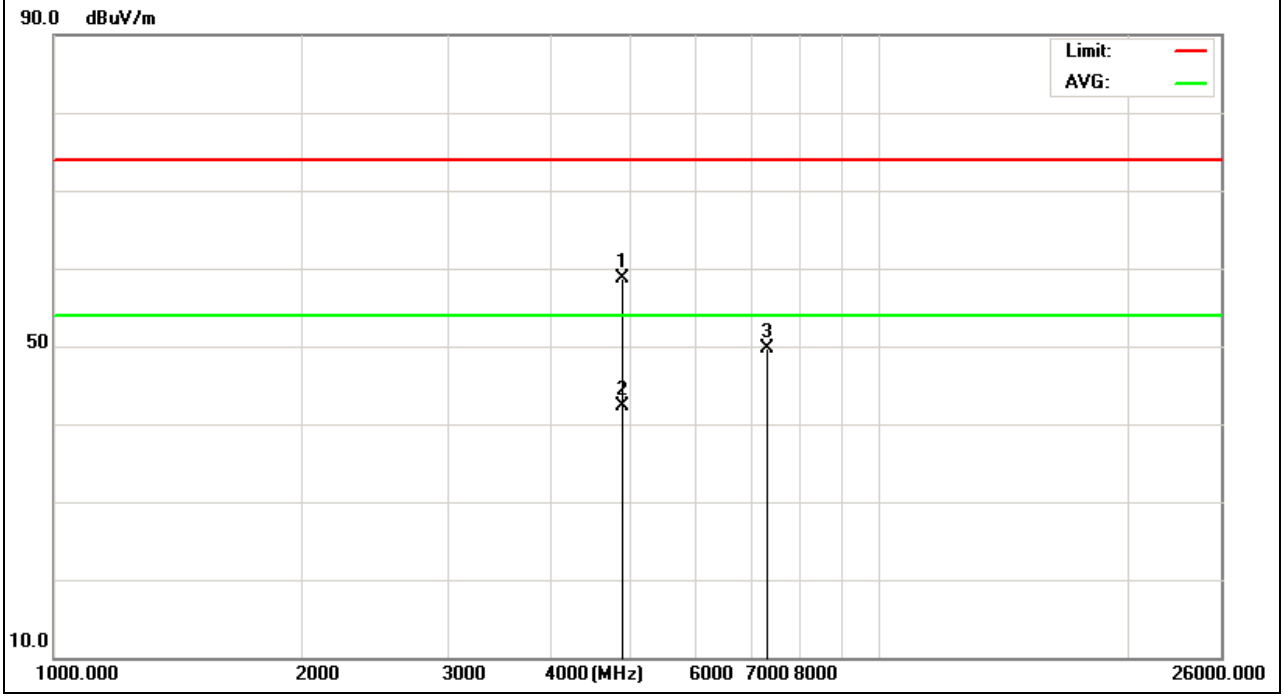
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11g Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.148	48.26	10.4	58.66	74	-15.34	peak
4874.148	31.83	10.4	42.23	54	-11.77	AVG
7311.135	36.93	12.75	49.68	74	-24.32	peak

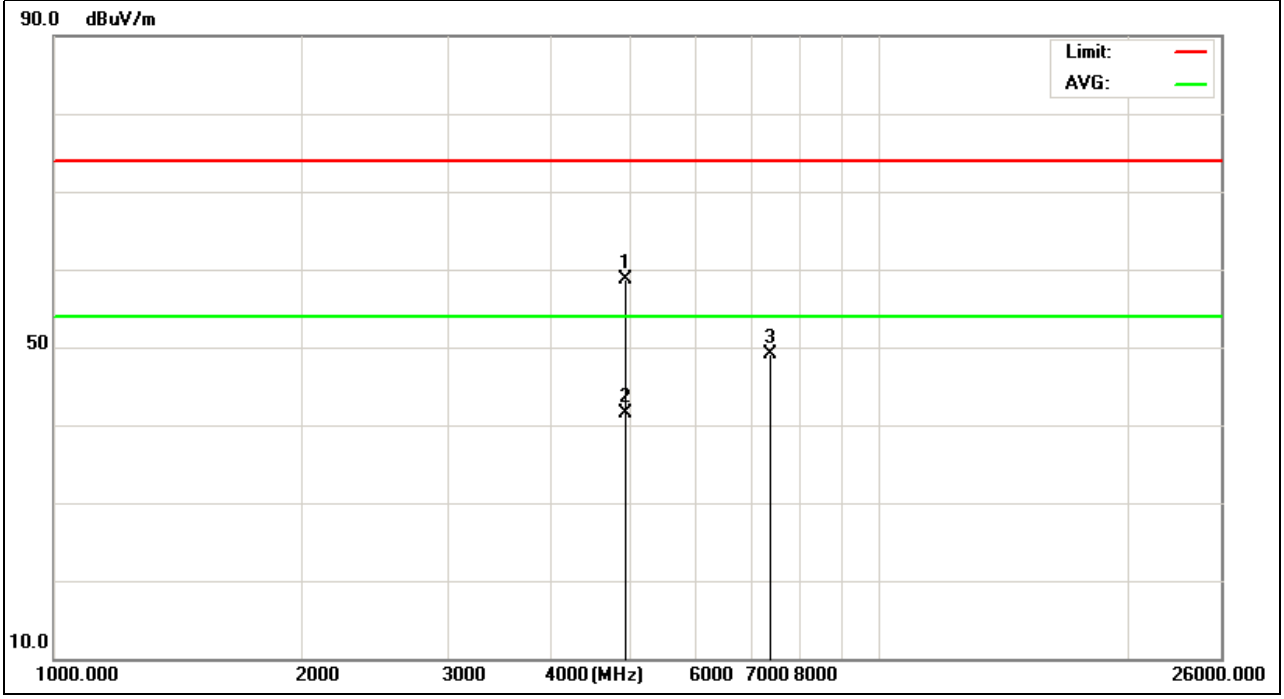
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11 (802.11g Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.139	48.23	10.39	58.62	74	-15.38	peak
4924.139	31.18	10.39	41.57	54	-12.43	AVG
7386.123	36.44	12.68	49.12	74	-24.88	peak

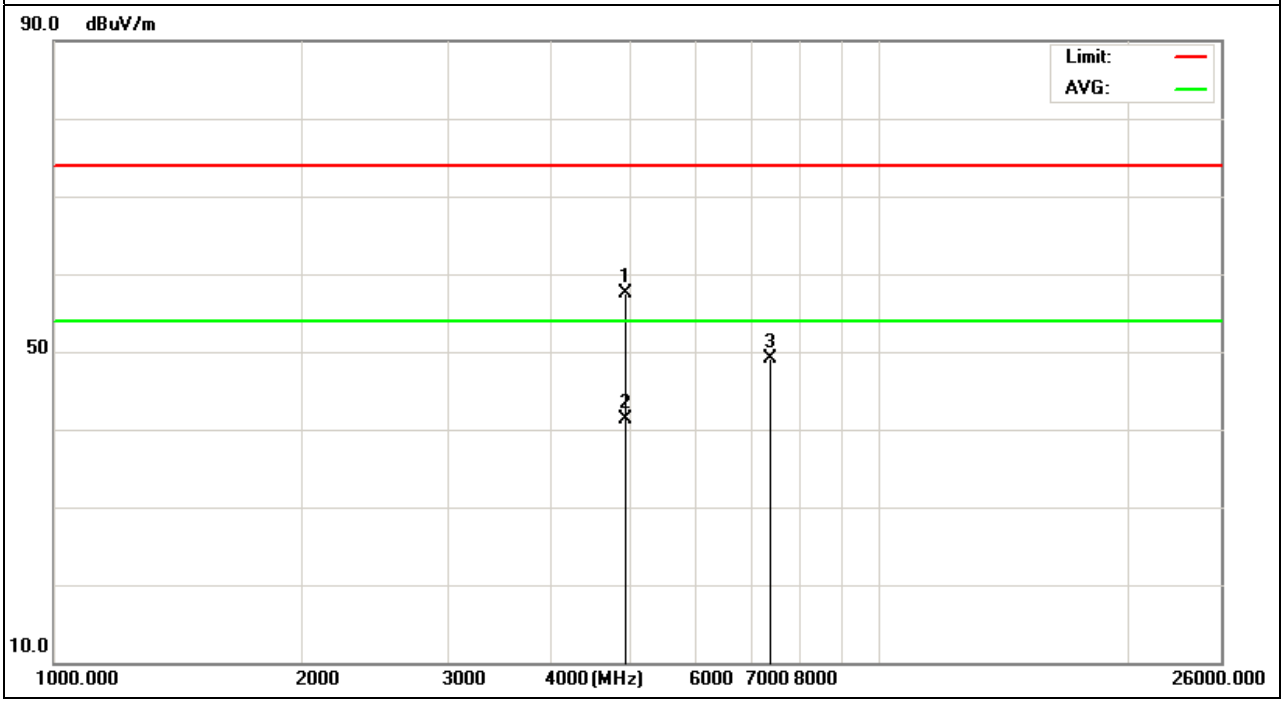
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.16	47.03	10.39	57.42	74	-16.58	peak
4924.16	30.95	10.39	41.34	54	-12.66	AVG
7386.129	36.52	12.68	49.2	74	-24.8	peak

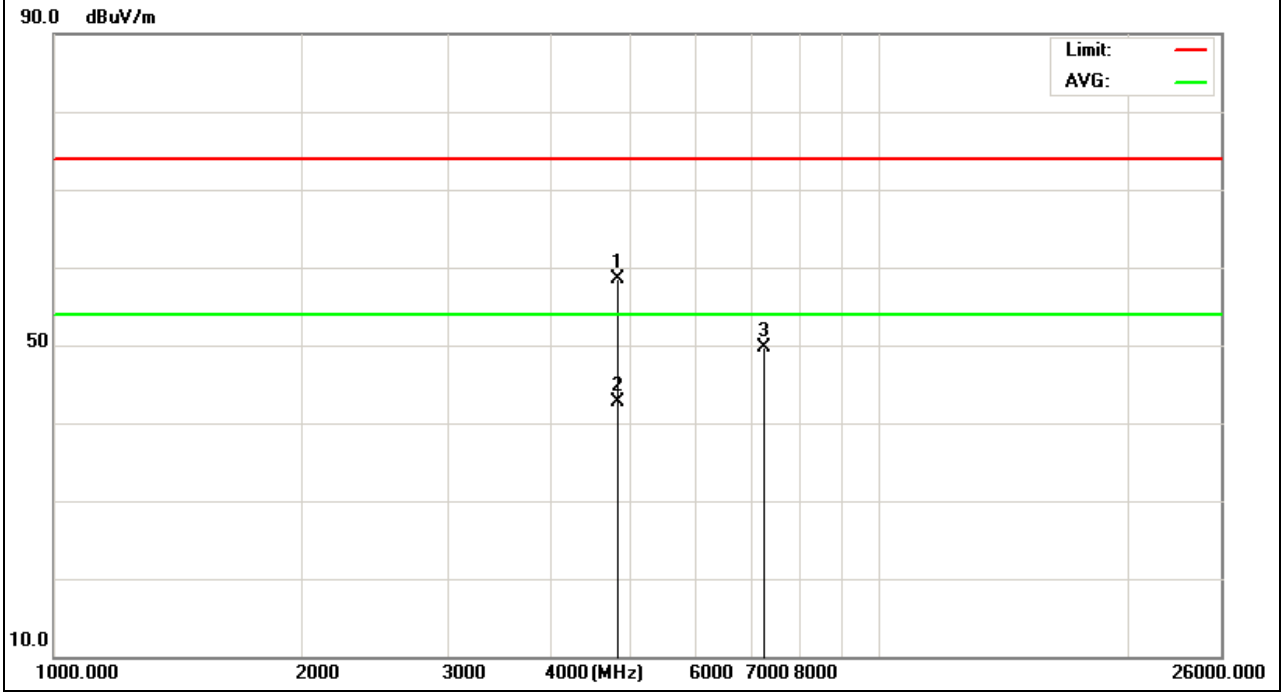
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1 (802.11n/20M Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.139	48.13	10.44	58.57	74	-15.43	peak
4824.139	32.22	10.44	42.66	54	-11.34	AVG
7236.145	37.37	12.39	49.76	74	-24.24	peak

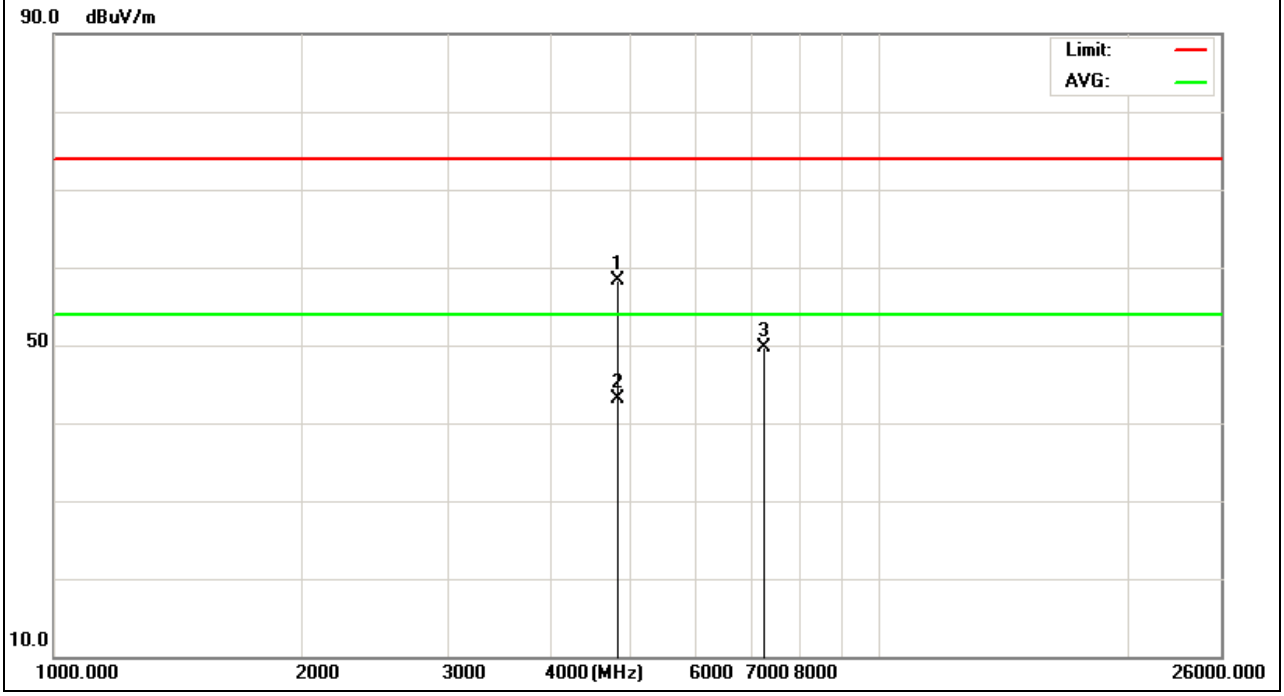
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1 (802.11n/20M Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.13	47.83	10.44	58.27	74	-15.73	peak
4824.13	32.64	10.44	43.08	54	-10.92	AVG
7236.143	37.36	12.39	49.75	74	-24.25	peak

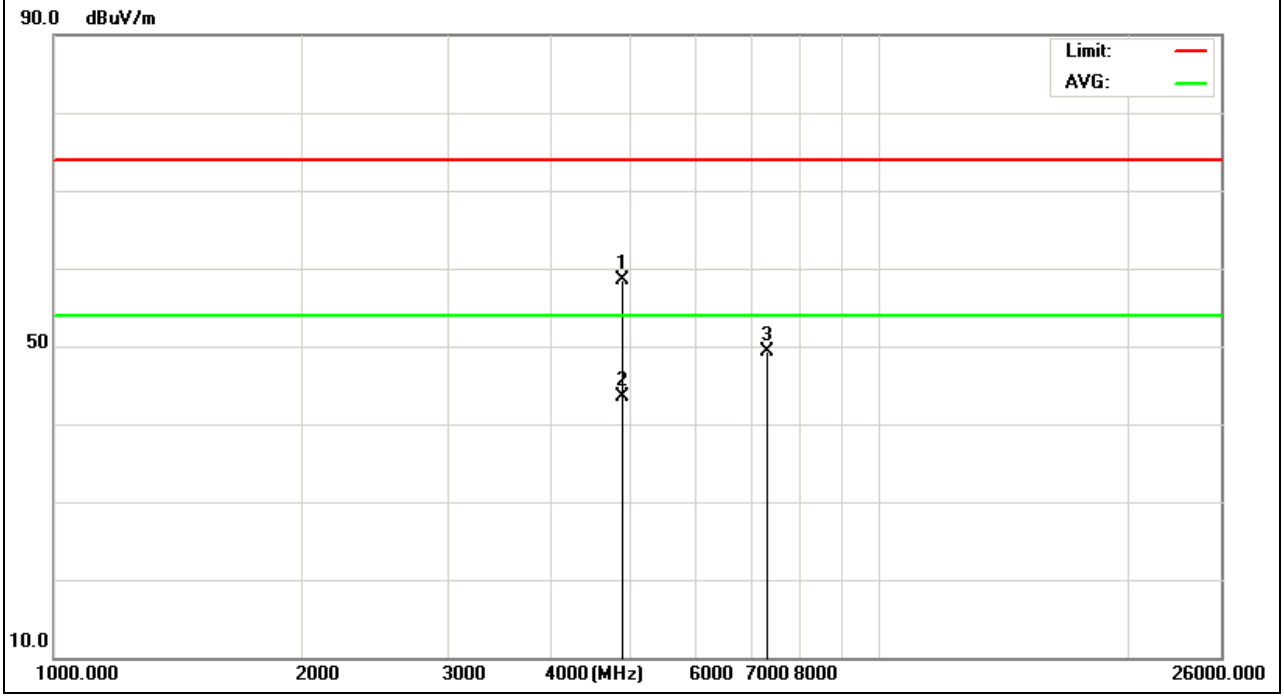
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11n/20M Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.146	48.15	10.4	58.55	74	-15.45	peak
4874.146	33.17	10.4	43.57	54	-10.43	AVG
7311.131	36.63	12.75	49.38	74	-24.62	peak

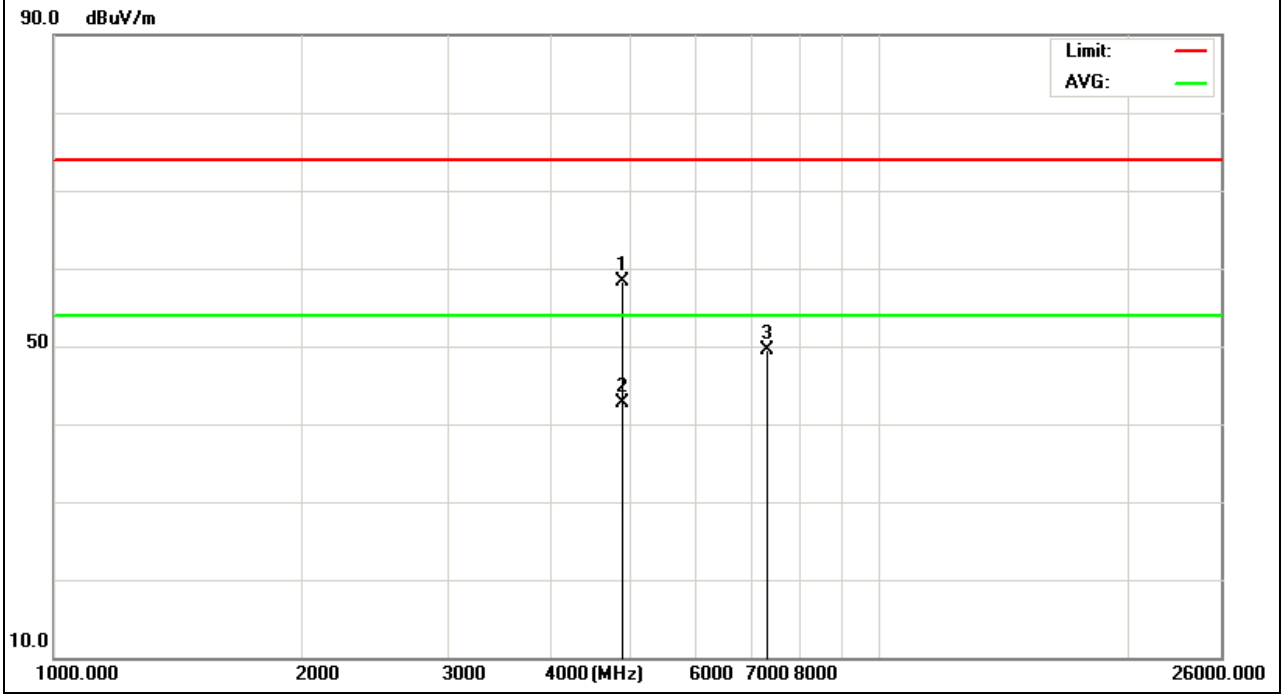
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11n/20M Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.155	47.98	10.4	58.38	74	-15.62	peak
4874.155	32.27	10.4	42.67	54	-11.33	AVG
7311.179	36.78	12.75	49.53	74	-24.47	peak

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz

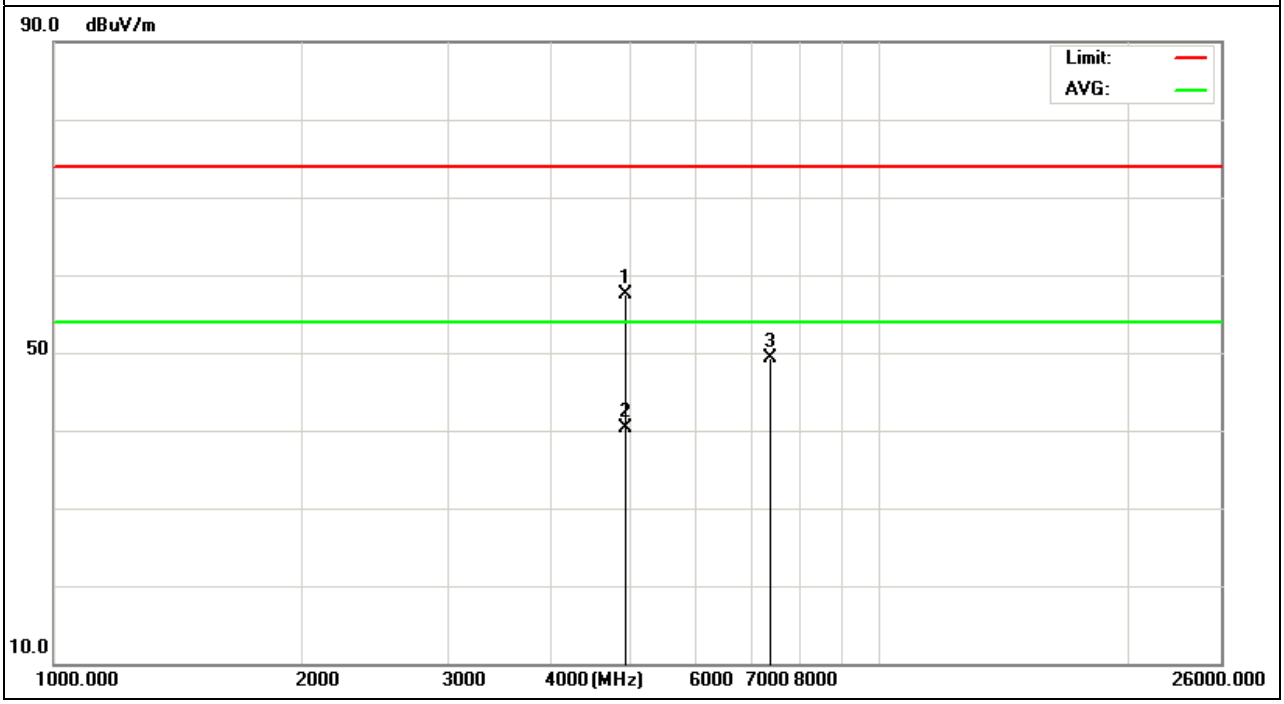


EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11 (802.11n/20M Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.059	47.06	10.39	57.45	74	-16.55	peak
4924.059	29.84	10.39	40.23	54	-13.77	AVG
7386.148	36.64	12.68	49.32	74	-24.68	peak

Remark:

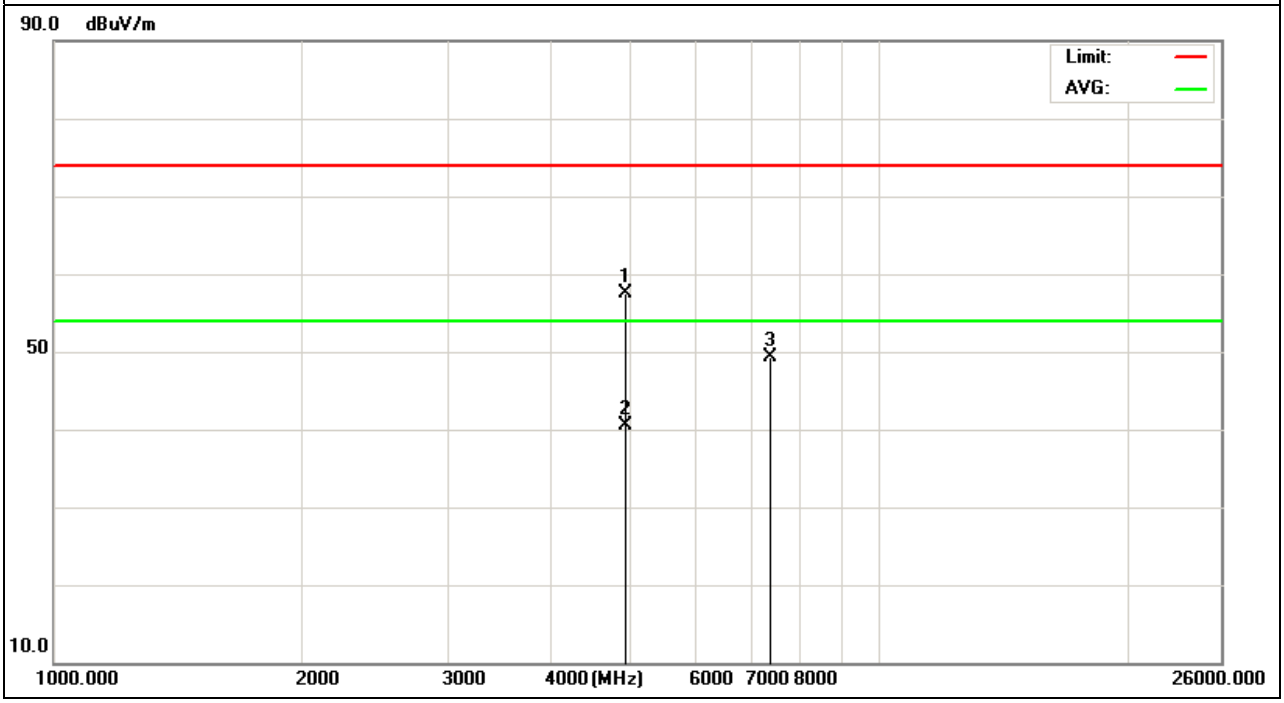
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
4. No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11 (802.11n/20M Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.14	47.1	10.39	57.49	74	-16.51	peak
4924.14	30.13	10.39	40.52	54	-13.48	AVG
7386.158	36.59	12.68	49.27	74	-24.73	peak

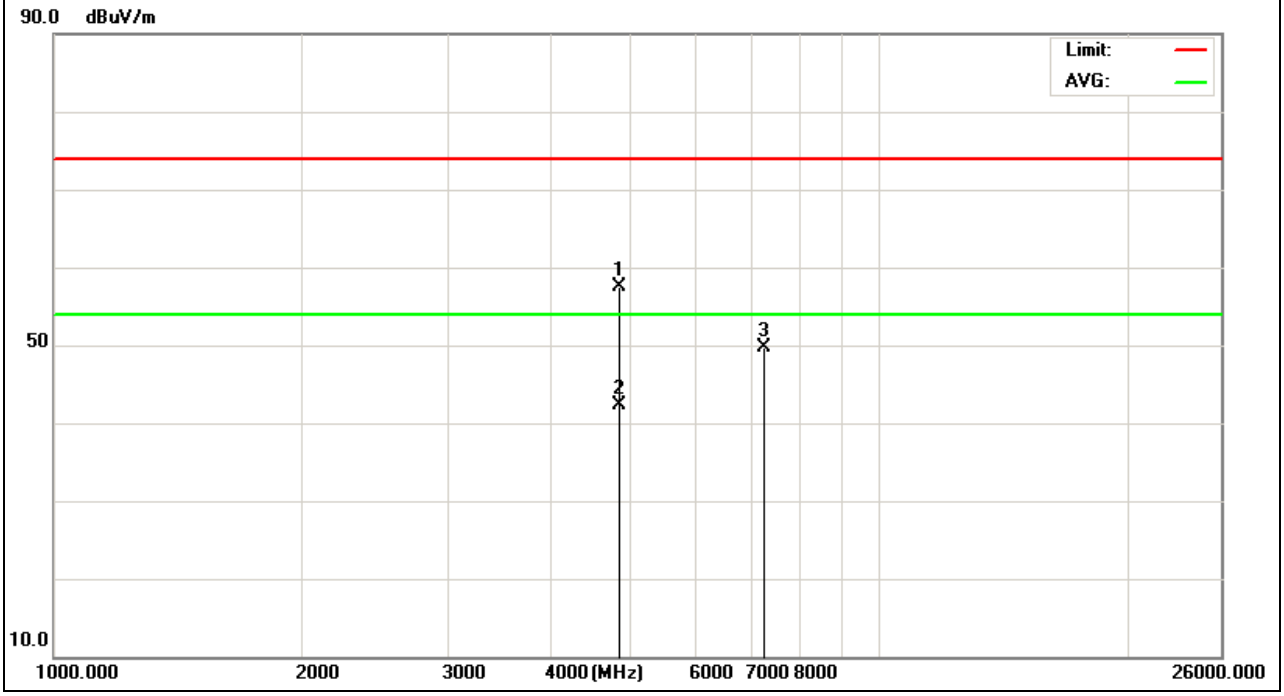
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH3 (802.11n/40M Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844.187	47	10.5	57.5	74	-16.5	peak
4844.187	31.85	10.5	42.35	54	-11.65	AVG
7266.326	37.14	12.5	49.64	74	-24.36	peak

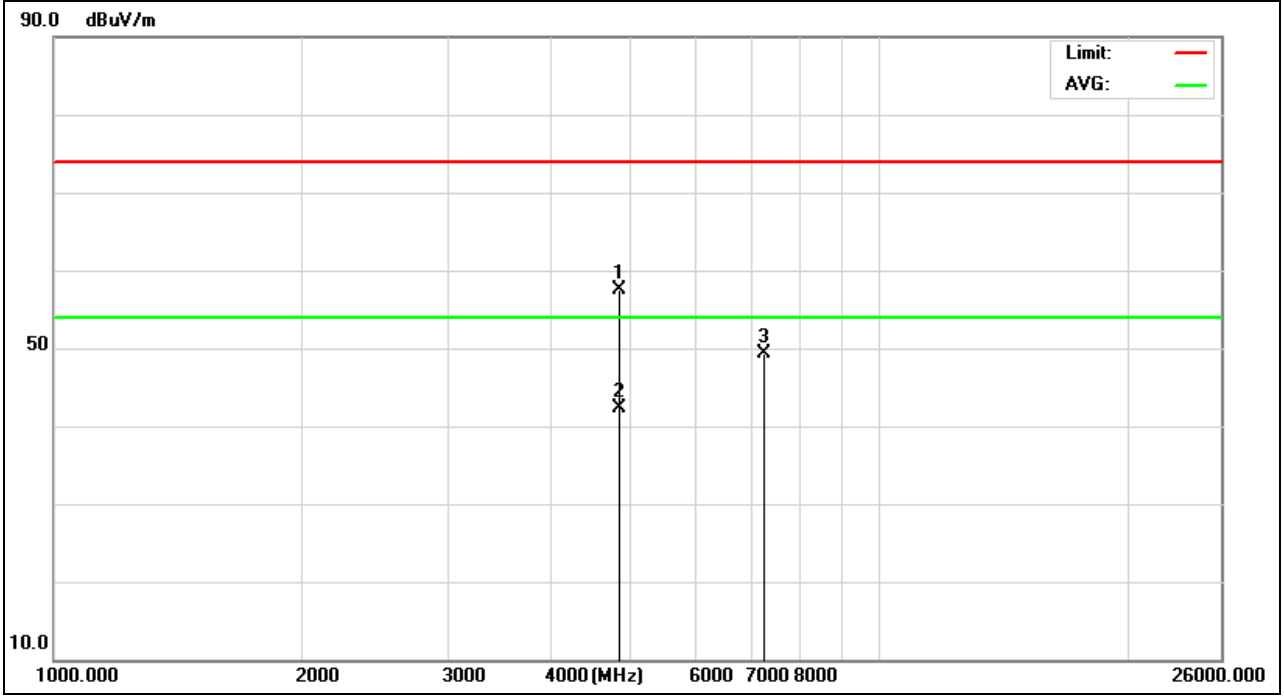
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH3 (802.11n/40M Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4844.313	46.92	10.5	57.42	74	-16.58	peak
4844.313	31.81	10.5	42.31	54	-11.69	AVG
7266.267	36.79	12.5	49.29	74	-24.71	peak

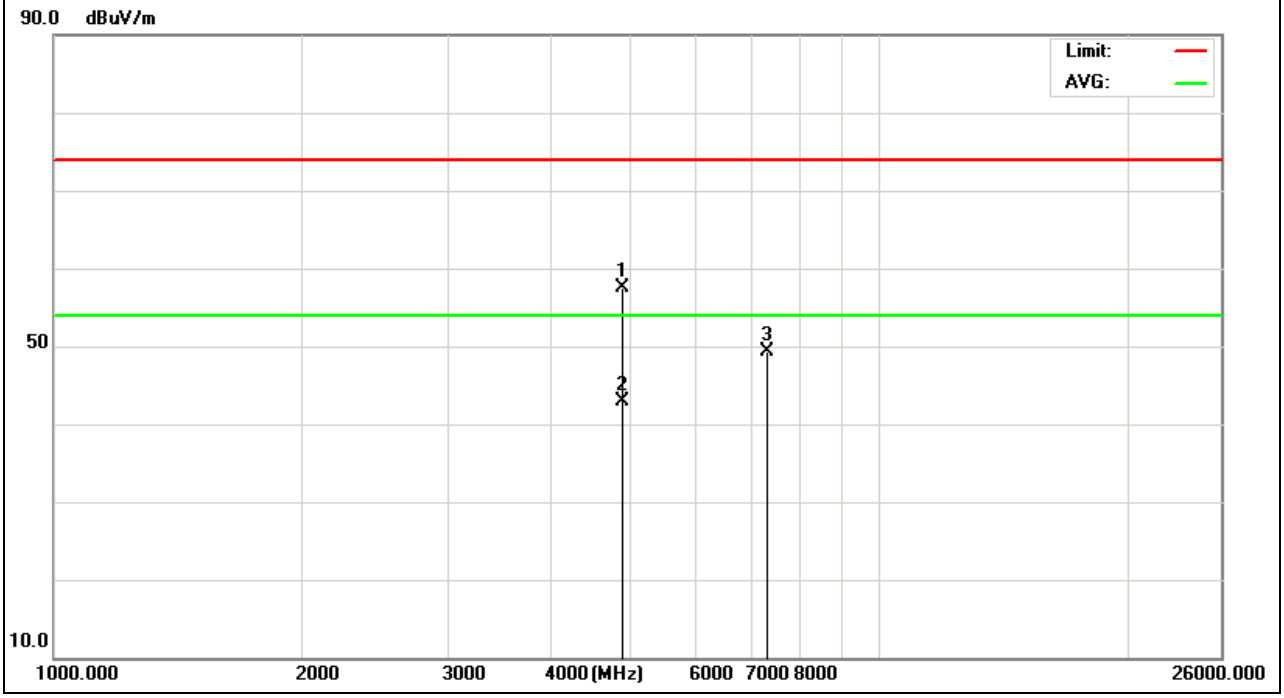
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11n/40M Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.242	47.14	10.4	57.54	74	-16.46	peak
4874.242	32.49	10.4	42.89	54	-11.11	AVG
7311.166	36.61	12.75	49.36	74	-24.64	peak

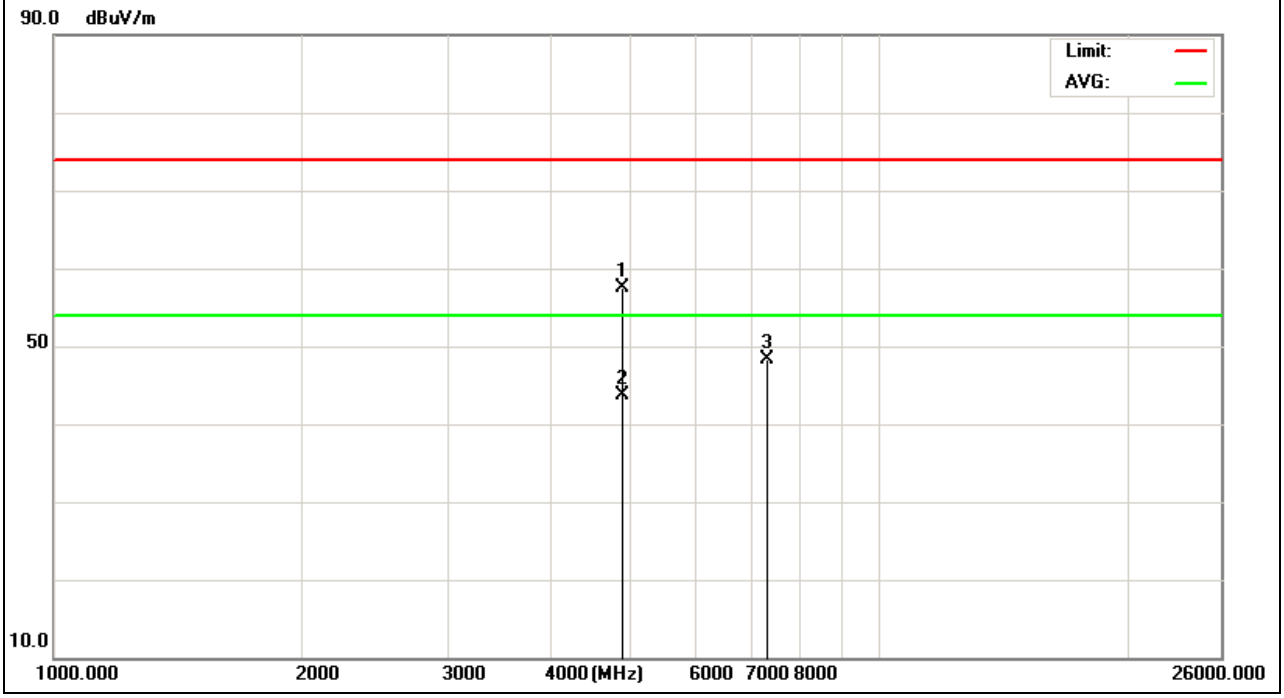
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH6 (802.11n/40M Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.237	47.17	10.4	57.57	74	-16.43	peak
4874.237	33.29	10.4	43.69	54	-10.31	AVG
7311.175	35.59	12.75	48.34	74	-25.66	peak

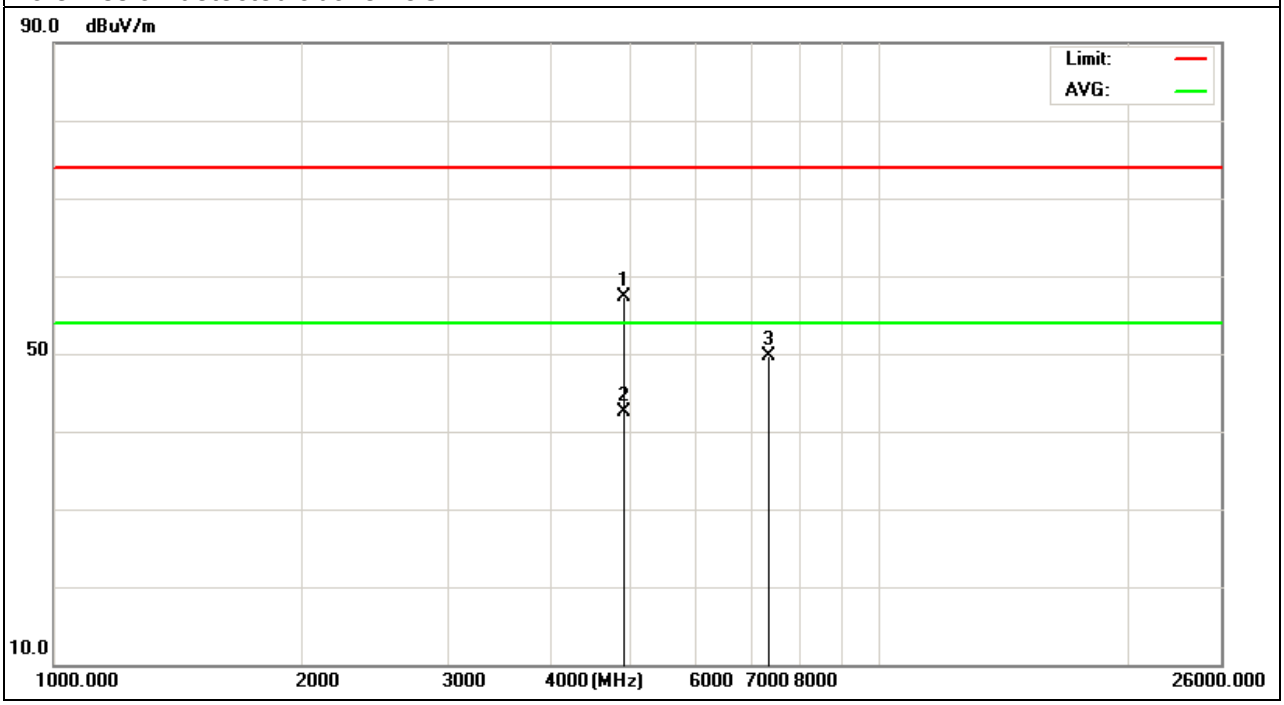
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH9 (802.11n/40M Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.286	47.04	10.29	57.33	74	-16.67	peak
4904.286	32.29	10.29	42.58	54	-11.42	AVG
7356.179	36.97	12.79	49.76	74	-24.24	peak

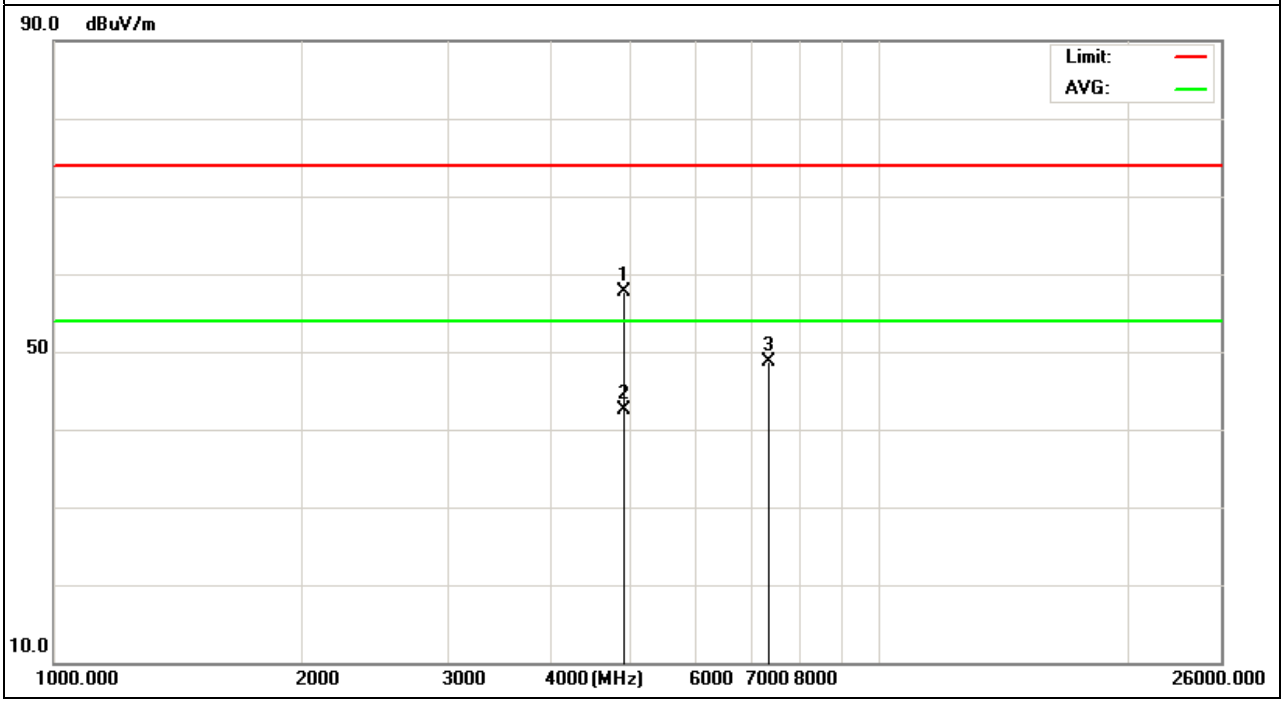
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH9 (802.11n/40M Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4904.368	47.39	10.29	57.68	74	-16.32	peak
4904.368	32.16	10.29	42.45	54	-11.55	AVG
7356.273	35.98	12.79	48.77	74	-25.23	peak

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission detected above 18GHz

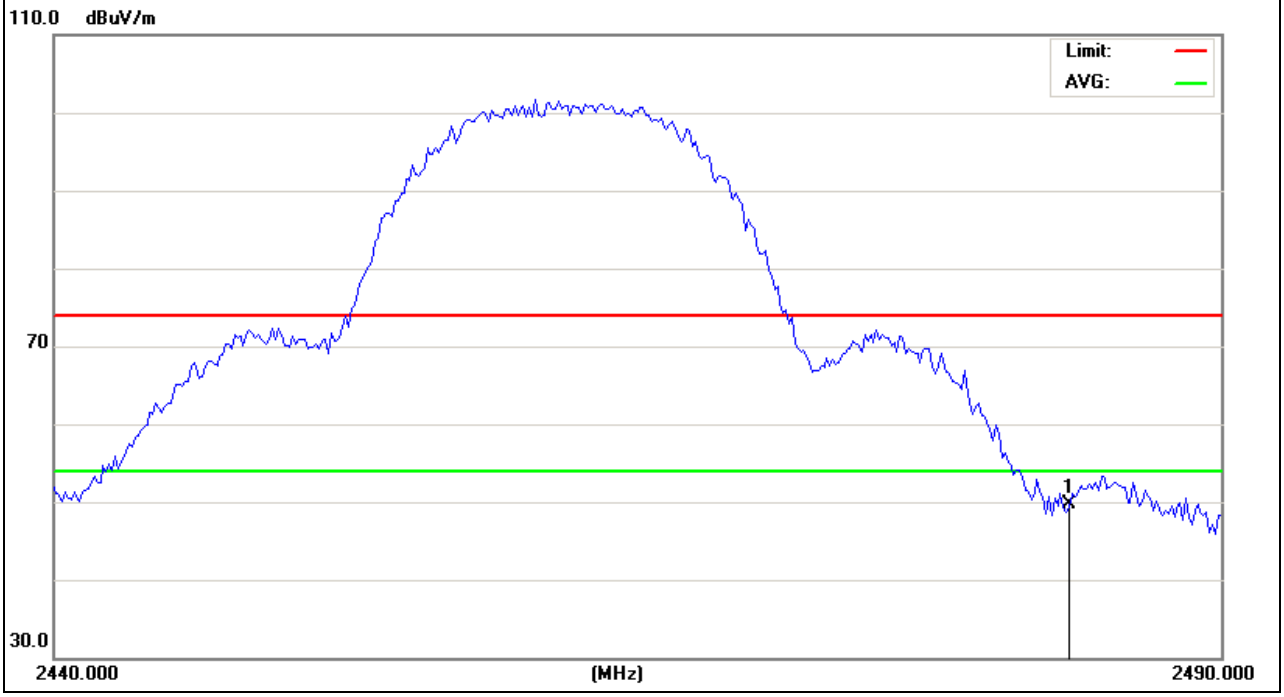


Band Edge Emission:

EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1(802.11b Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	73.19	-12.99	60.2	74	-13.8	peak
2400	54.4	-12.99	41.41	54	-12.59	AVG

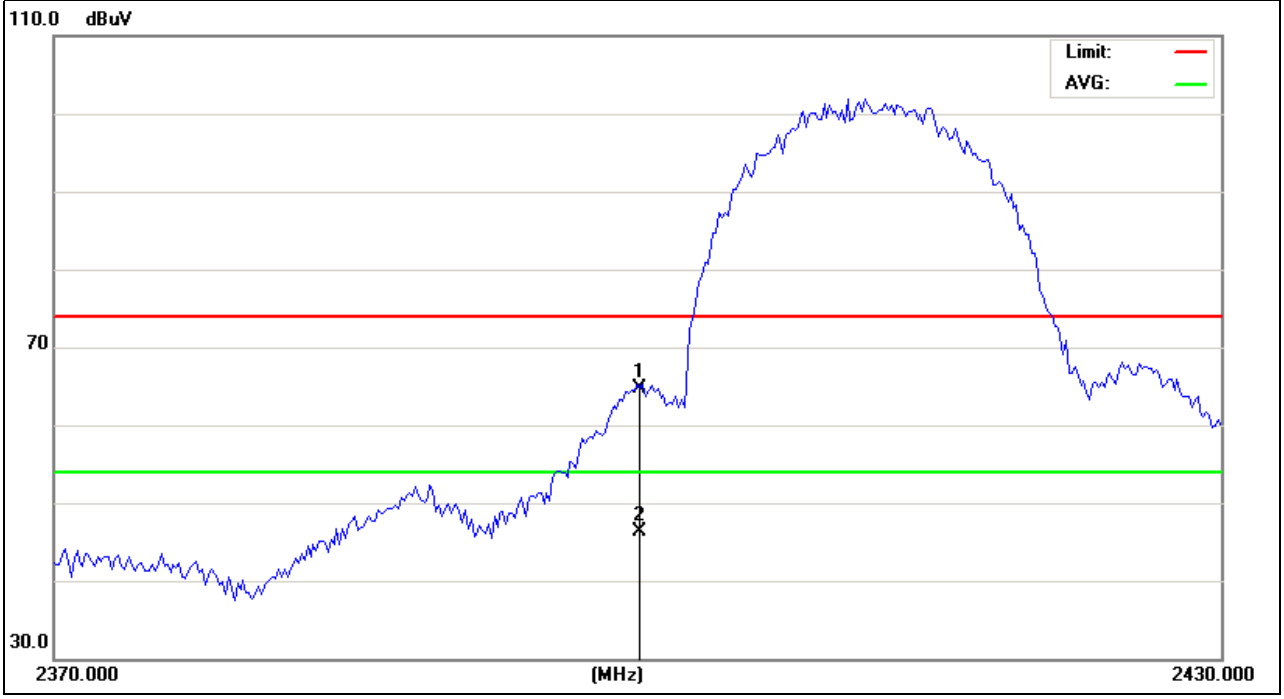
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1(802.11b Mode)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	77.69	-12.99	64.7	74	-9.3	peak
2400	59.32	-12.99	46.33	54	-7.67	AVG

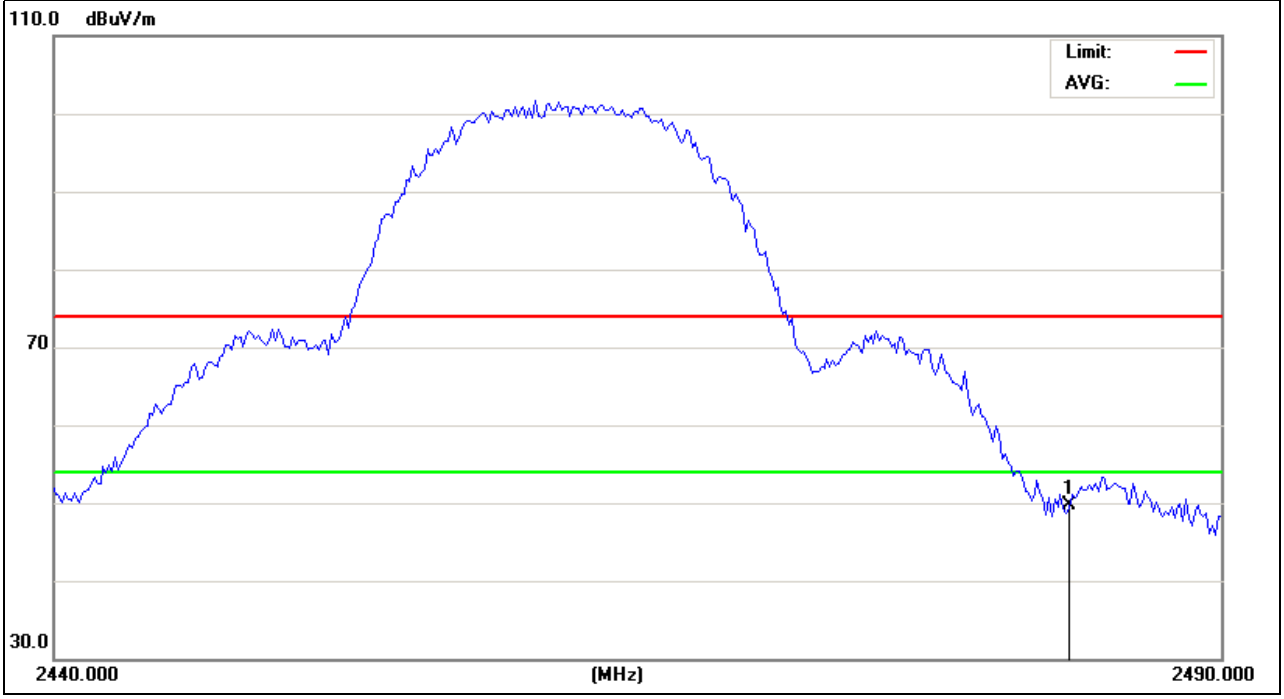
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11(802.11b Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	62.43	-12.78	49.65	74	-24.35	peak

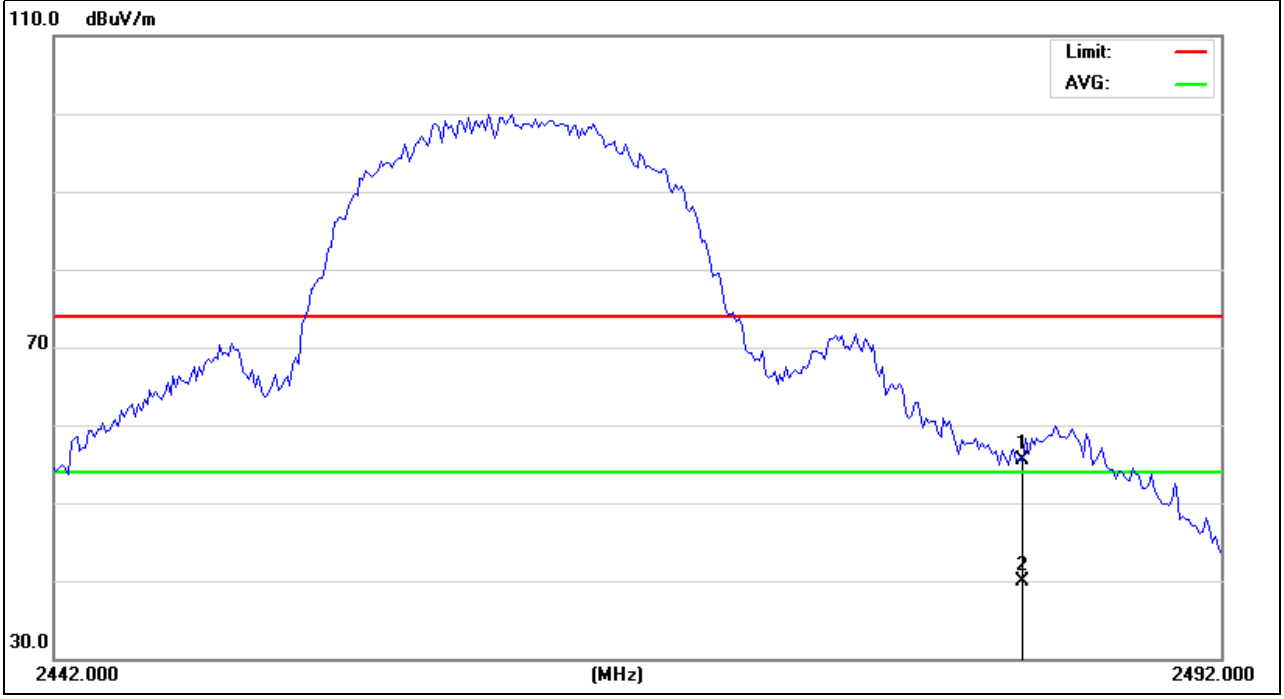
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11(802.11b Mode)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	68.38	-12.78	55.6	74	-18.4	peak
2483.5	52.65	-12.78	39.87	54	-14.13	AVG

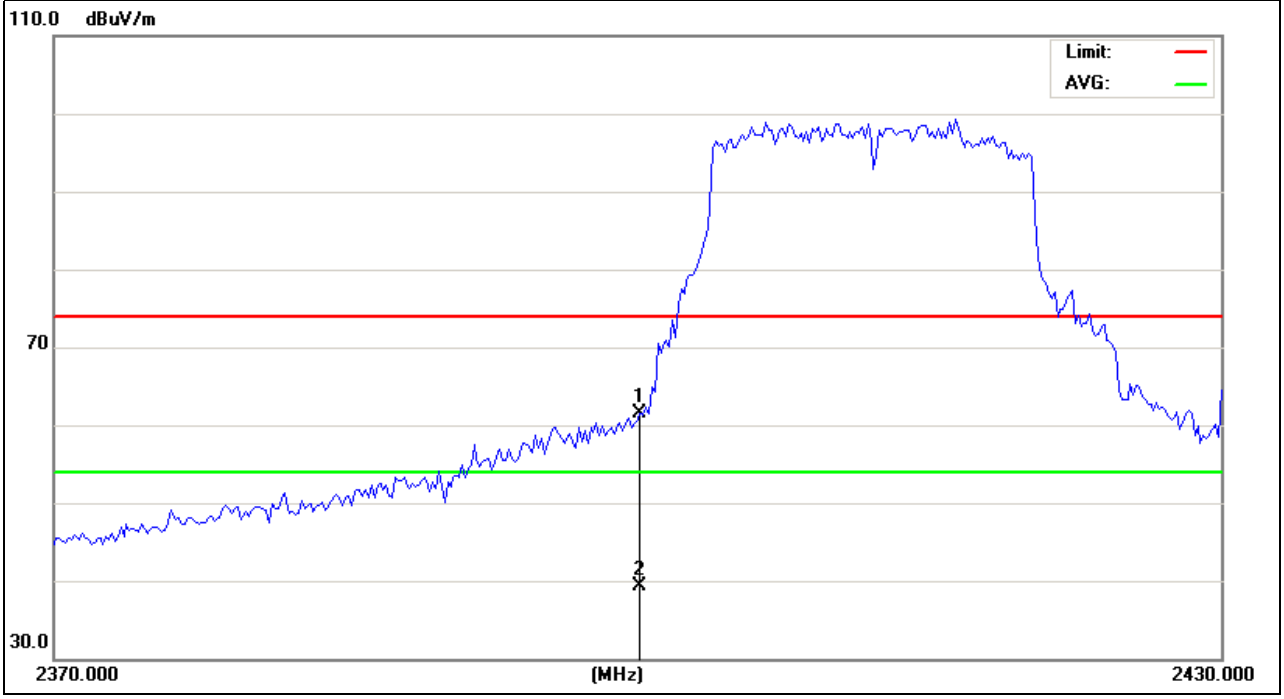
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1(802.11g Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	74.49	-12.99	61.5	74	-12.5	peak
2400	52.29	-12.99	39.3	54	-14.7	AVG

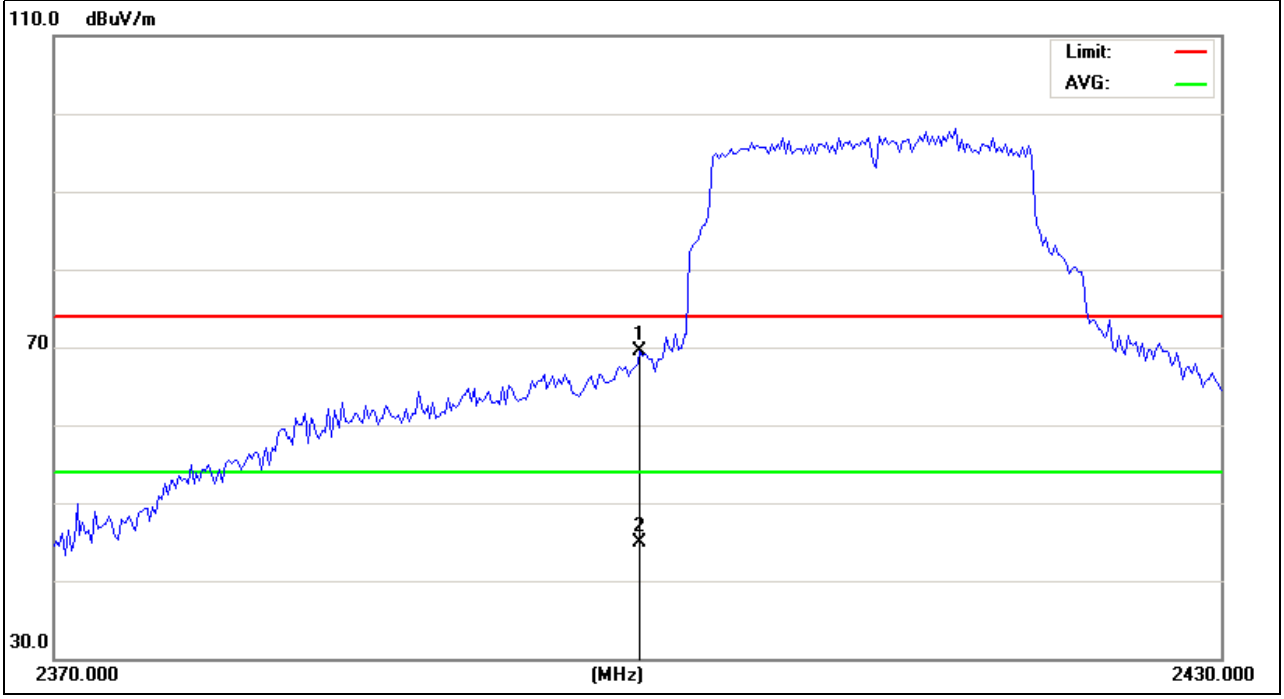
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1(802.11gMode)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	82.39	-12.99	69.4	74	-4.6	peak
2400	57.82	-12.99	44.83	54	-9.17	AVG

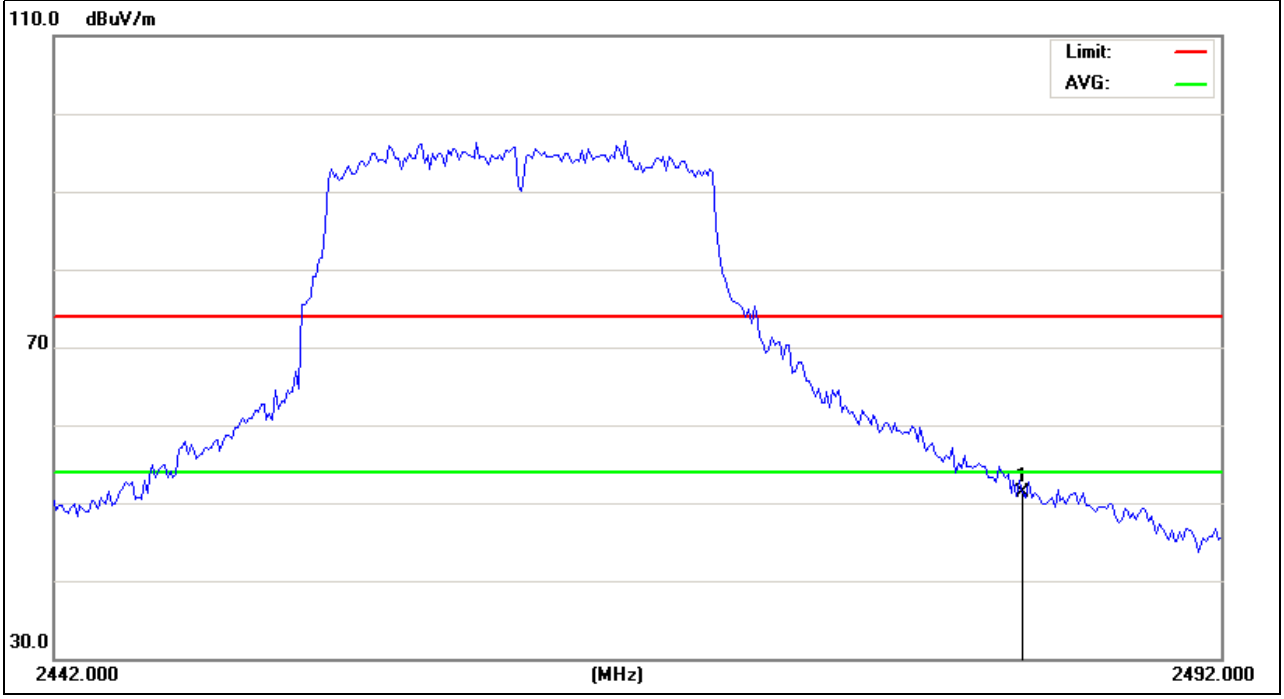
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	63.98	-12.78	51.2	74	-22.8	peak

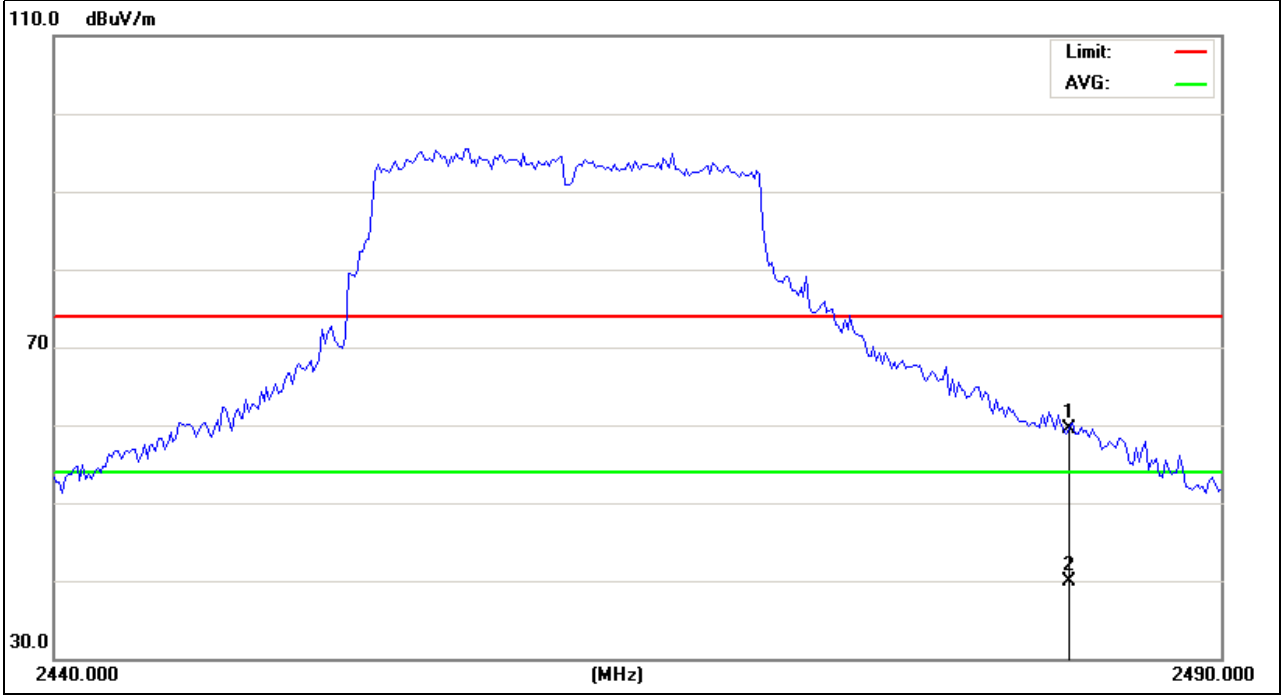
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	72.28	-12.78	59.5	74	-14.5	peak
2483.5	52.71	-12.78	39.93	54	-14.07	AVG

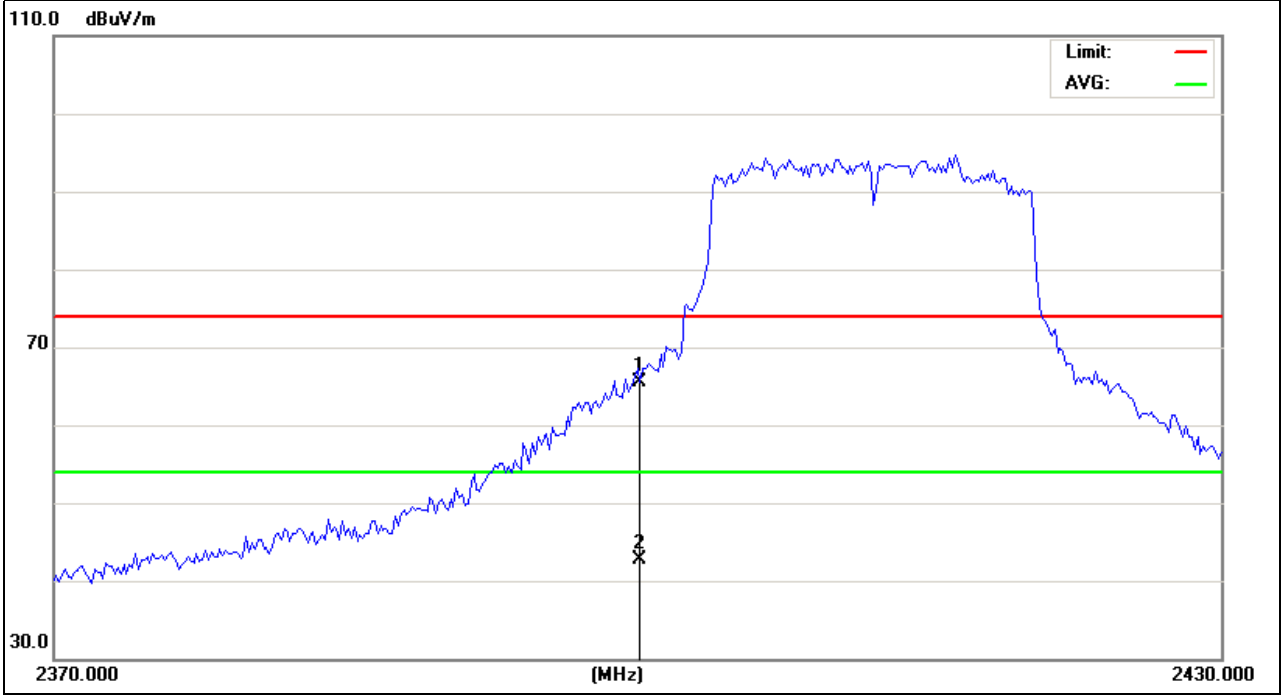
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode/20MHz)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	78.59	-12.99	65.6	74	-8.4	peak
2400	55.73	-12.99	42.74	54	-11.26	AVG

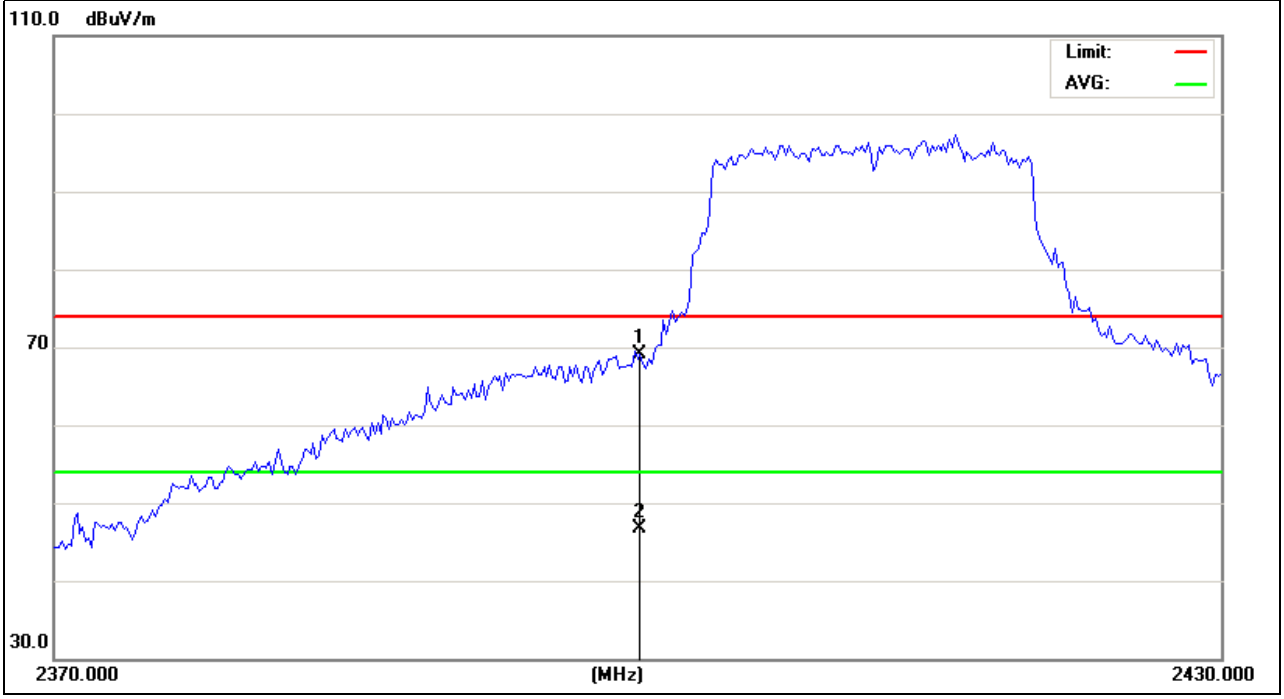
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode/20MHz)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	82.09	-12.99	69.1	74	-4.9	peak
2400	59.64	-12.99	46.65	54	-7.35	AVG

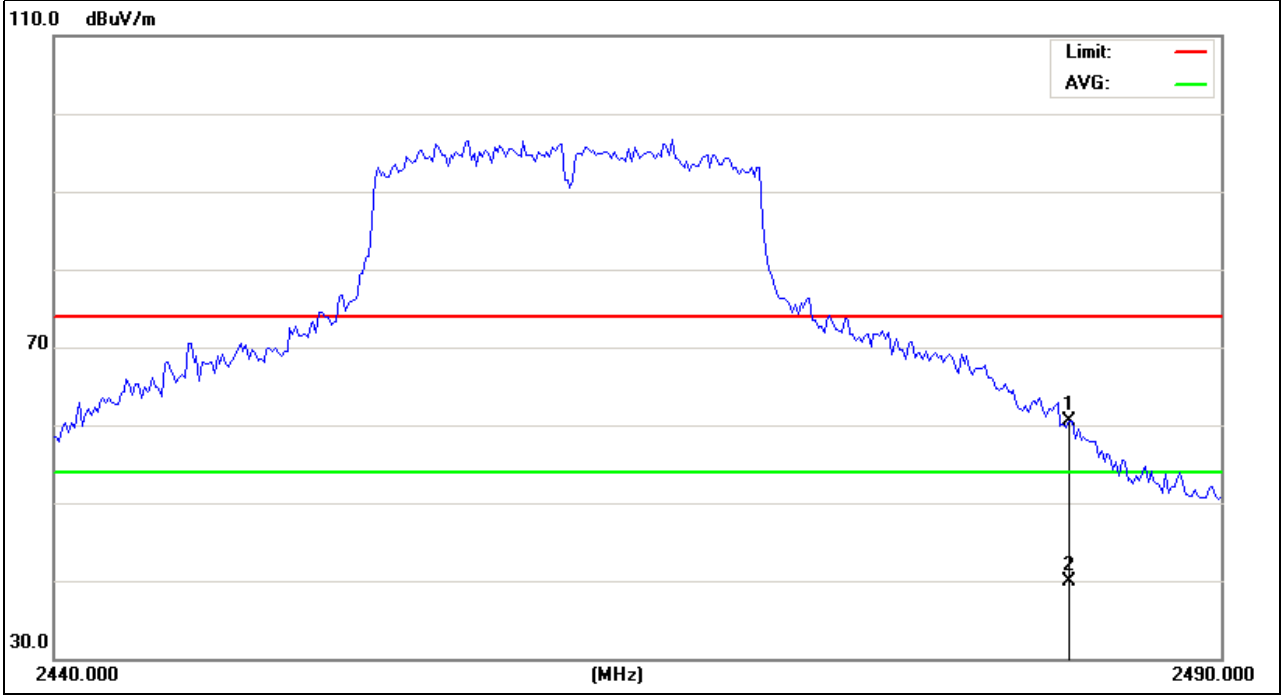
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode/20MHz)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	73.29	-12.78	60.51	74	-13.49	peak
2483.5	52.69	-12.78	39.91	54	-14.09	AVG

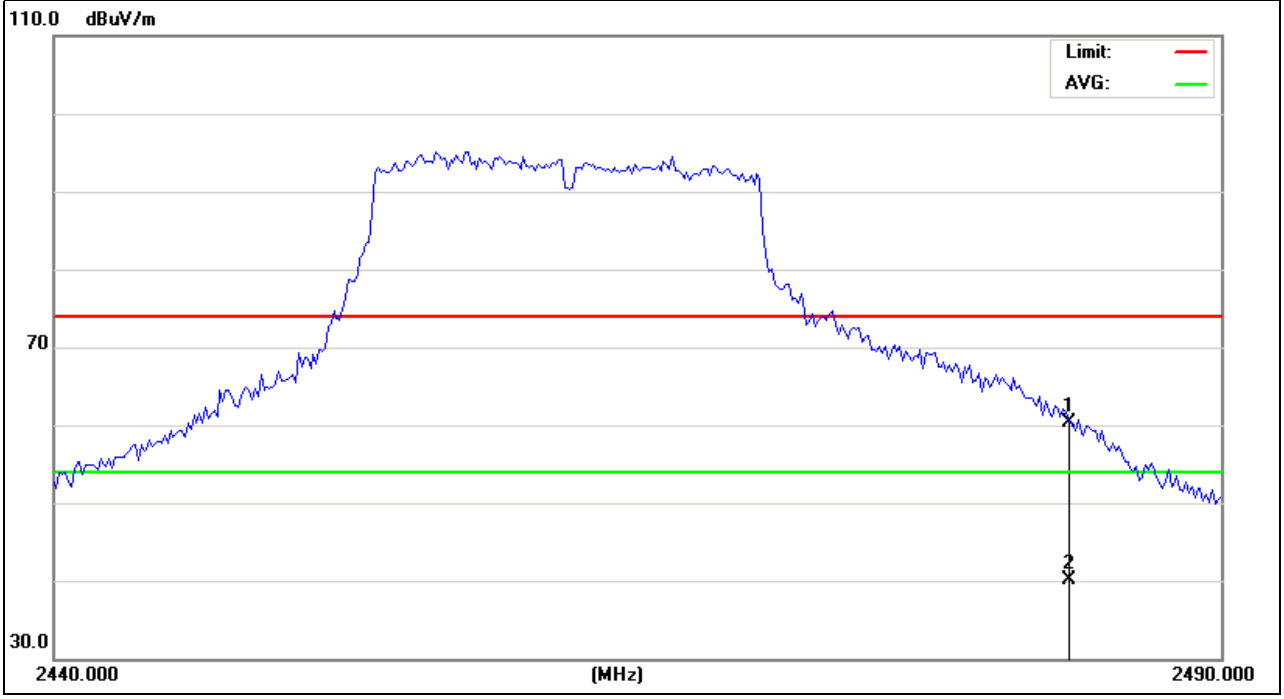
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode/20MHz)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	73.08	-12.78	60.3	74	-13.7	peak
2483.5	52.88	-12.78	40.1	54	-13.9	AVG

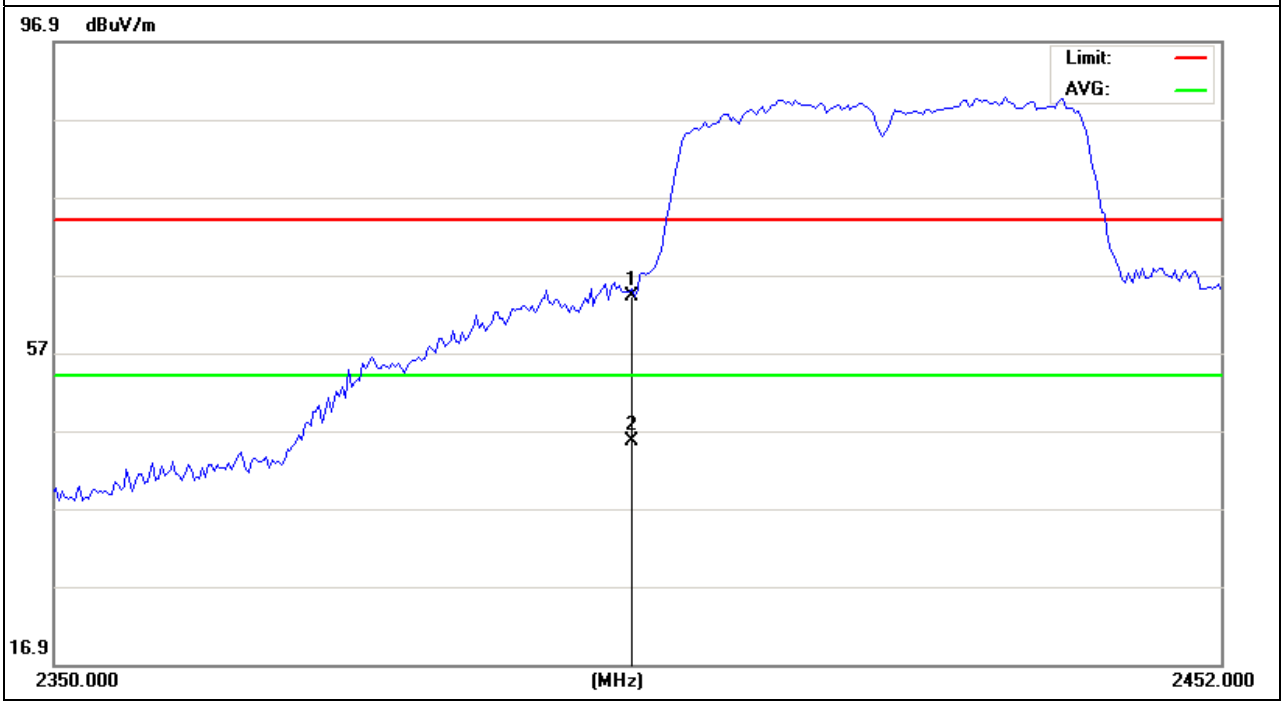
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode/40MHz)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	83.86	-17.46	66.4	74	-7.6	peak
2400	65.25	-17.46	47.79	54	-7.21	AVG

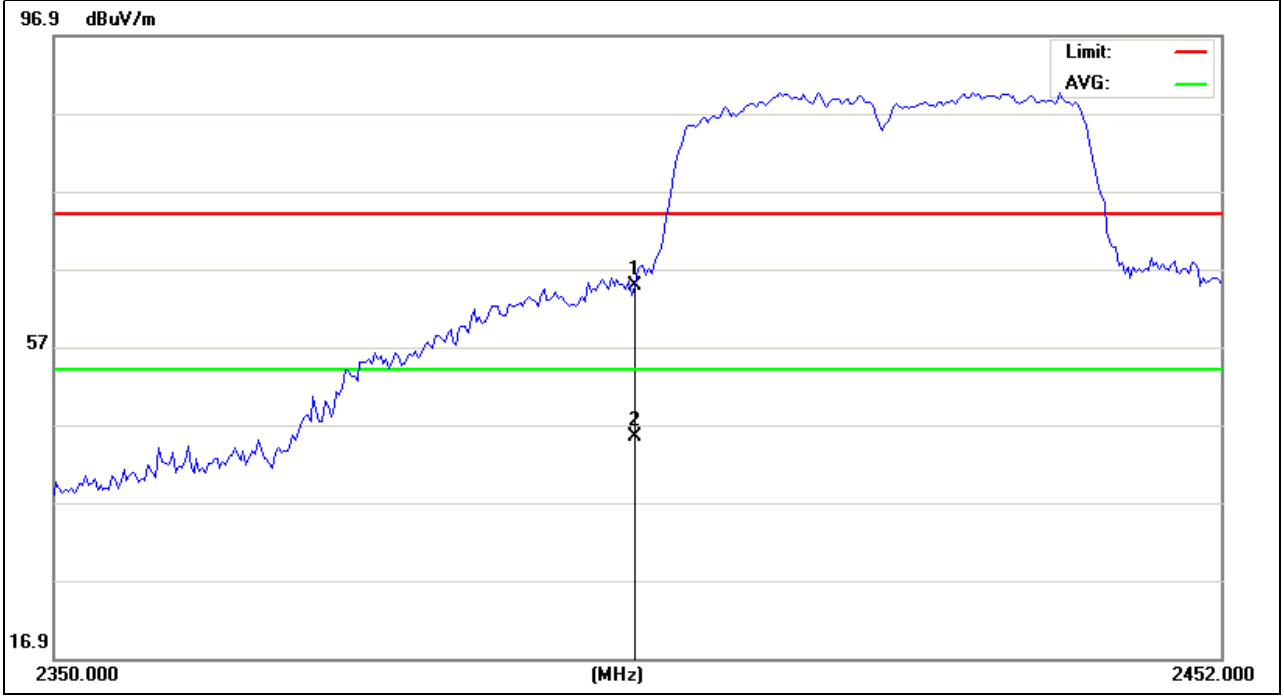
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode/40MHz)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	84.35	-17.35	67	74	-7	peak
2400	64	-17.35	46.65	54	-7.35	AVG

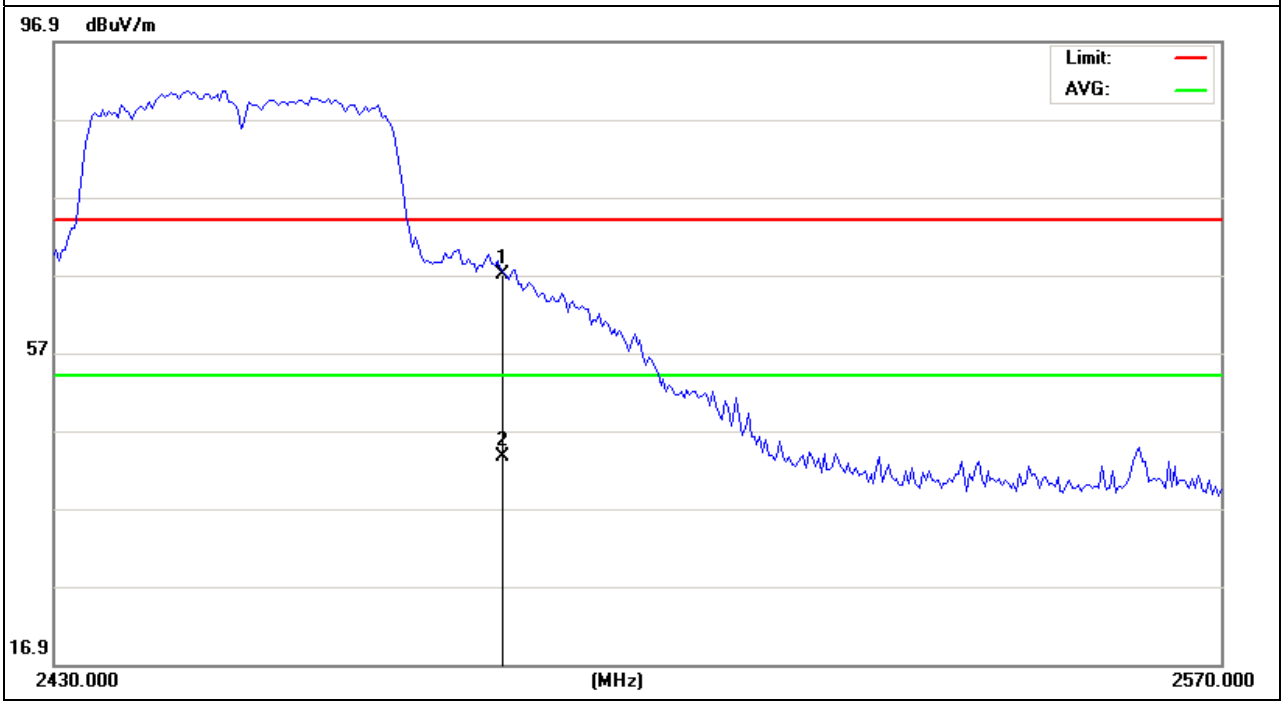
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode/40MHz)	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	81.2	-17.35	67.85	74	-6.15	peak
2483.5	65.19	-17.35	47.84	54	-6.16	AVG

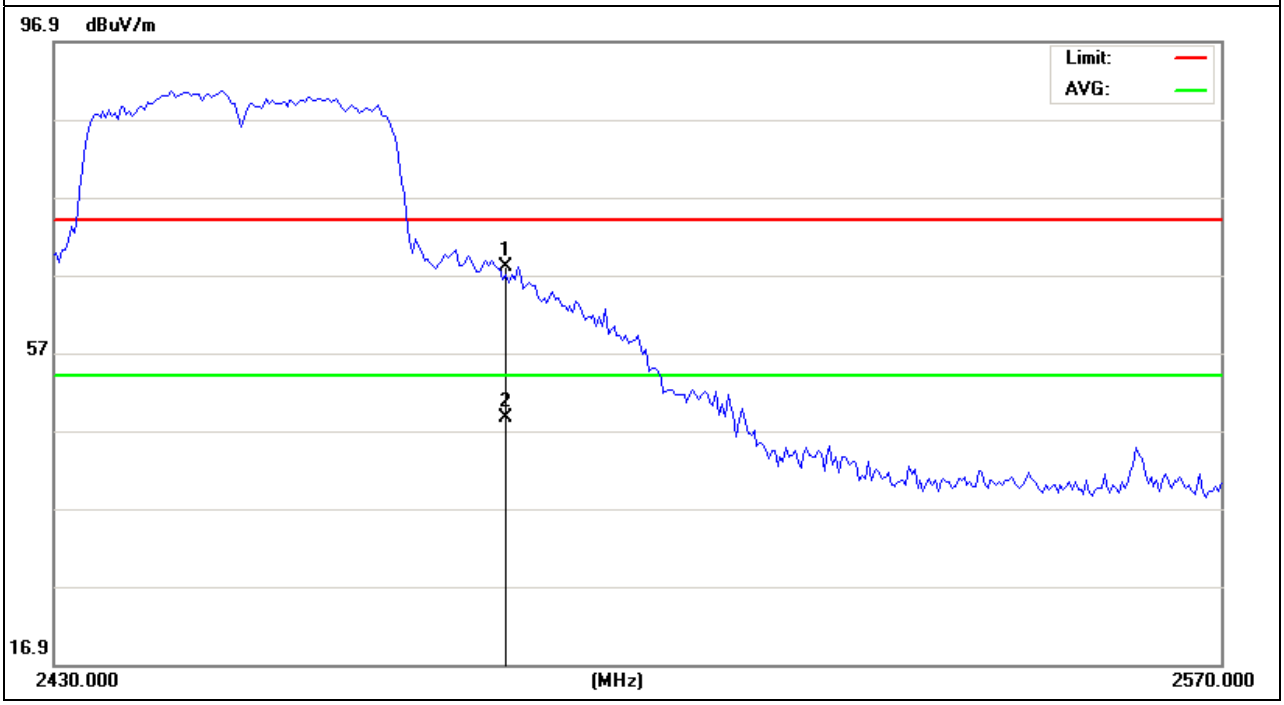
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode/40MHz)	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	85.57	-17.35	68.22	74	-5.78	peak
2483.5	65.66	-17.35	48.31	54	-5.69	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP

4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

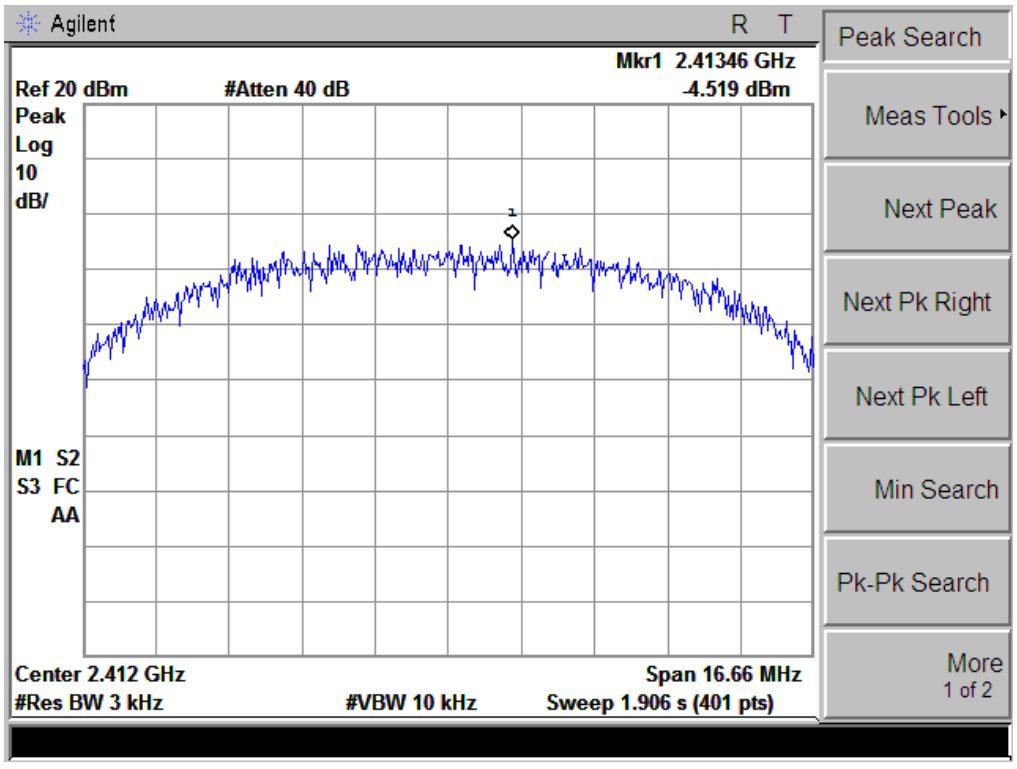
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	-4.52	-4.85	8	**PASS**
2437 MHz	-4.64	-4.92	8	**PASS**
2462 MHz	-4.16	-4.47	8	**PASS**

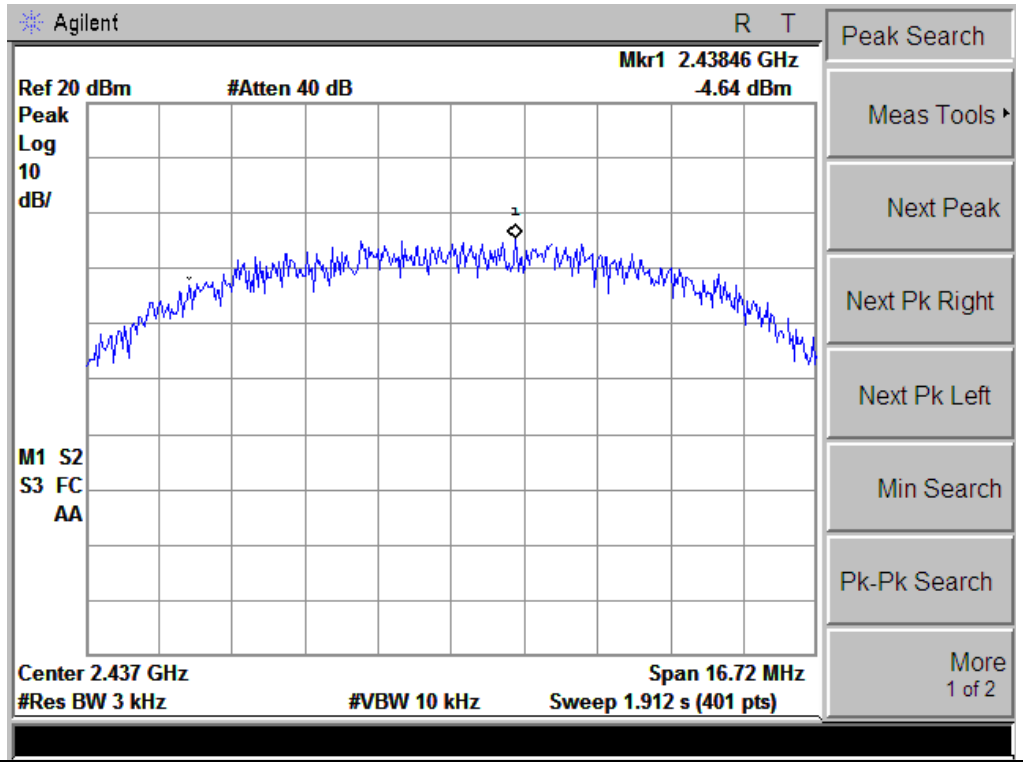
Note:

1. A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.

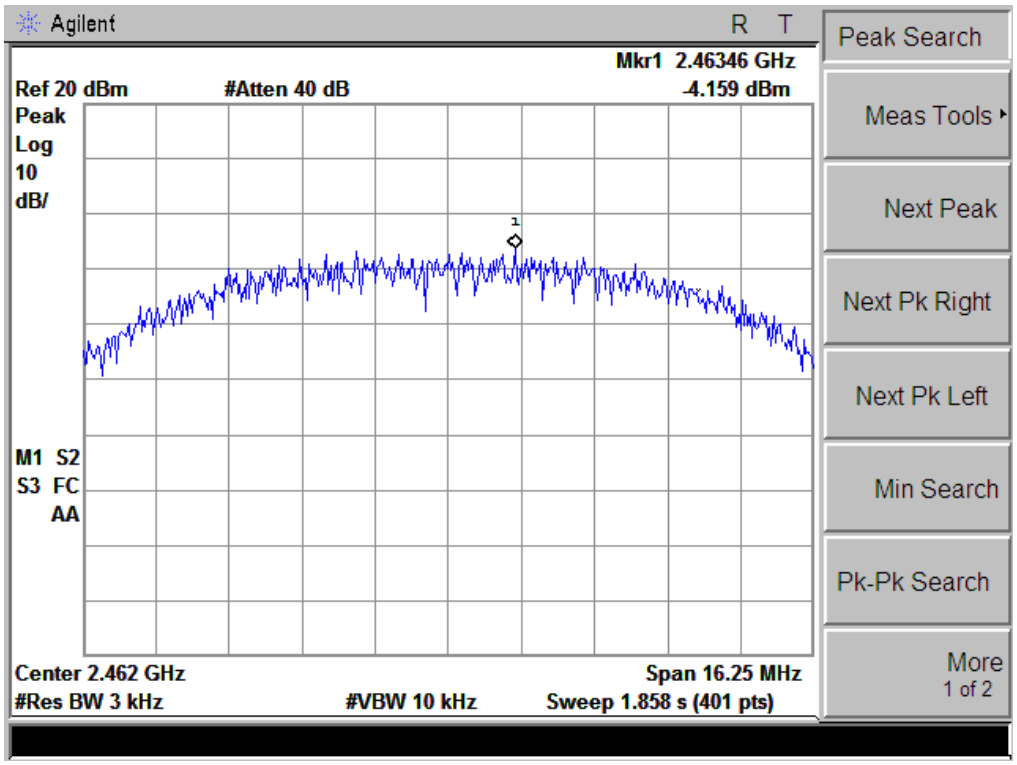
TX CH01



TX CH06



TX CH11



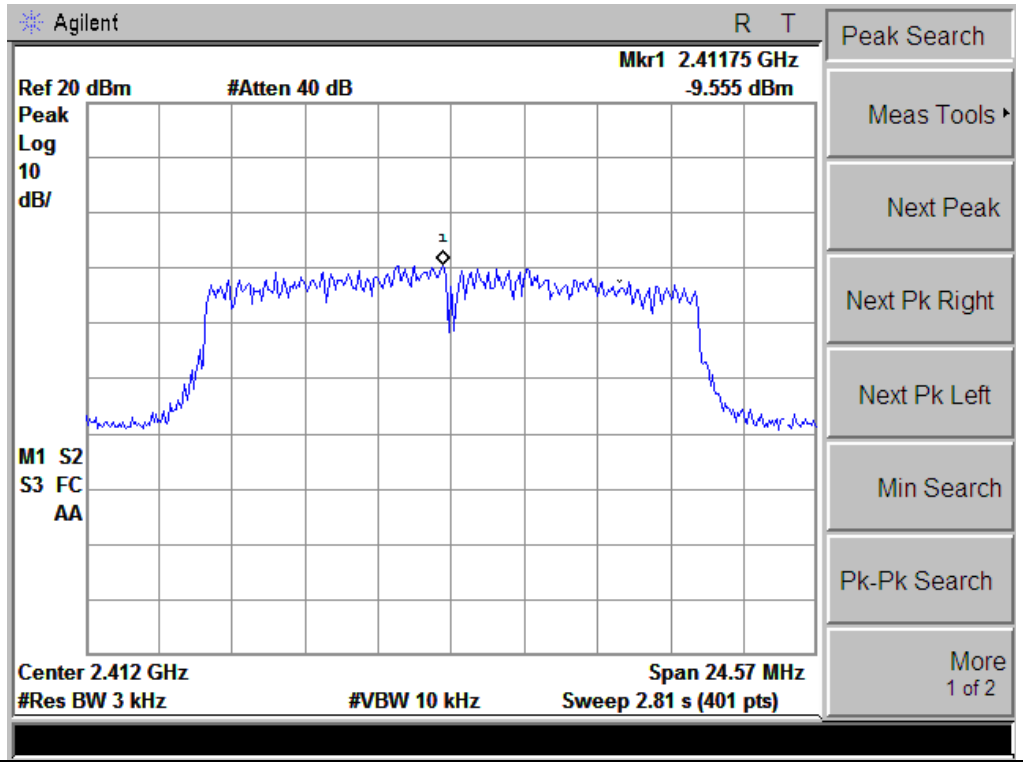
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Limit (dBm)	Result
2412 MHz	-9.56	-10.13	8	**PASS**
2437 MHz	-10.74	-10.84	8	**PASS**
2462 MHz	-11.76	-12.02	8	**PASS**

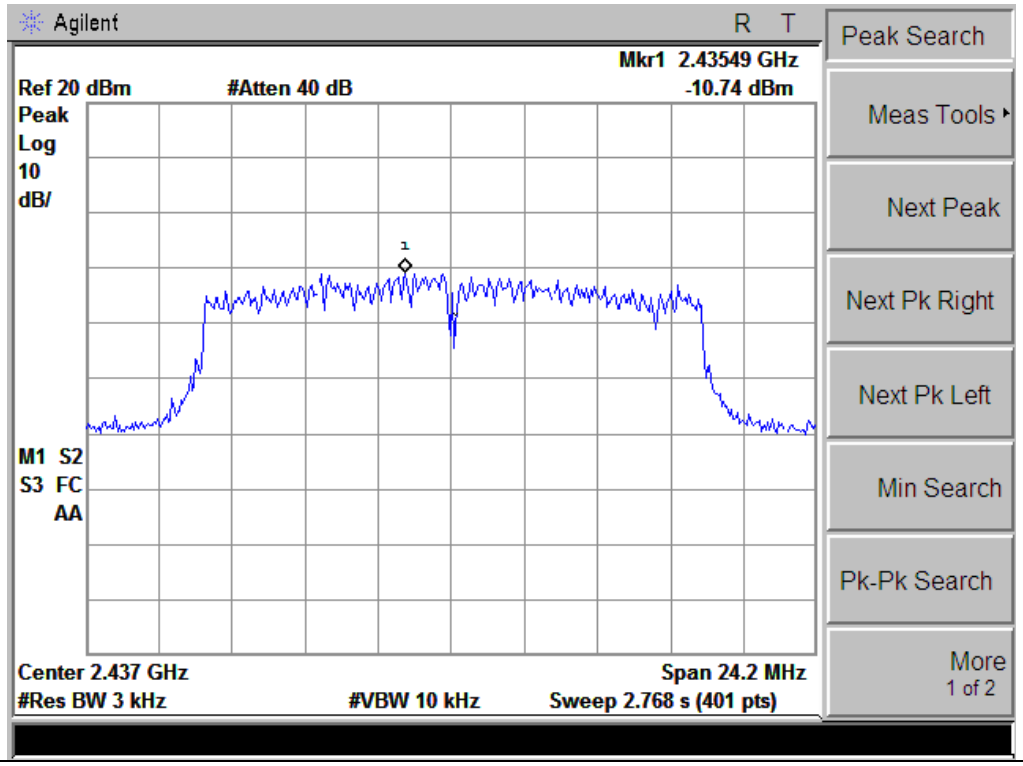
Note:

1. A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.

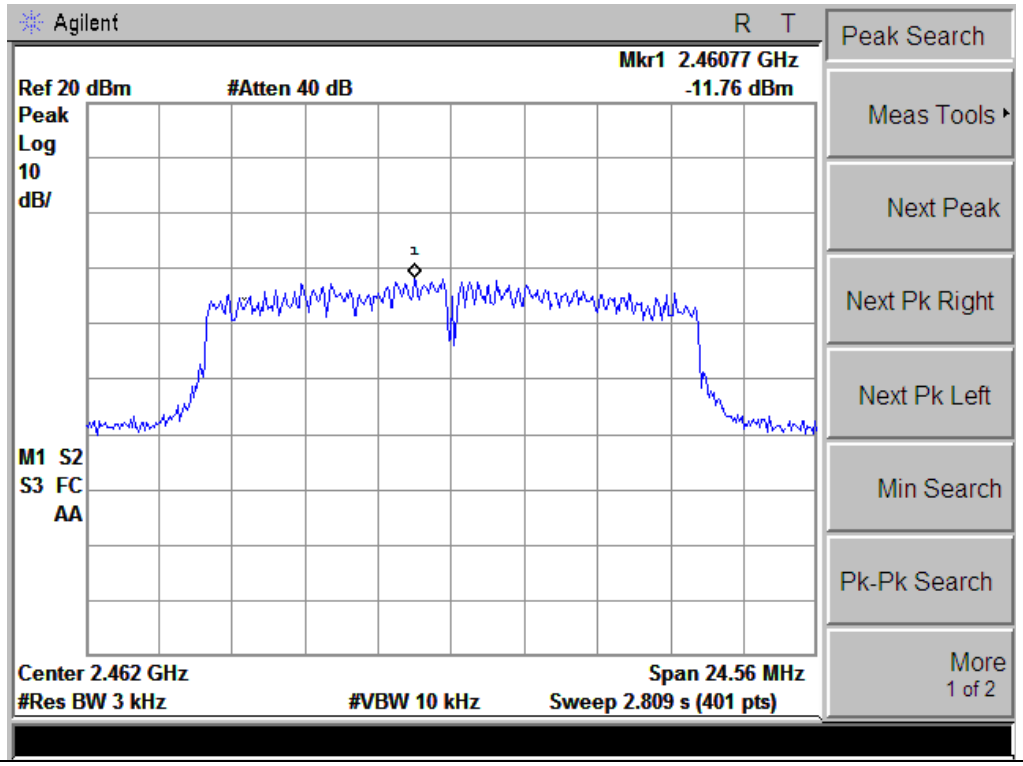
TX CH01



TX CH06



TX CH11



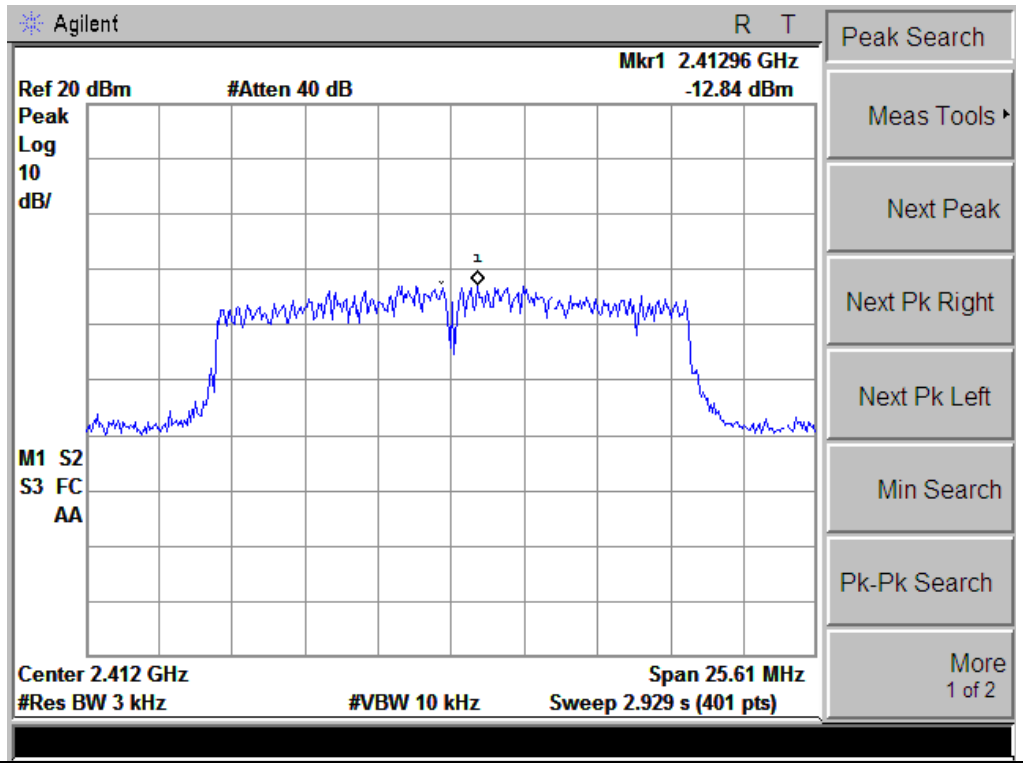
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Total Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.84	-12.93	-9.88	8	**PASS**
2437 MHz	-12.91	-13.09	-9.99	8	**PASS**
2462 MHz	-12.64	-12.85	-9.73	8	**PASS**

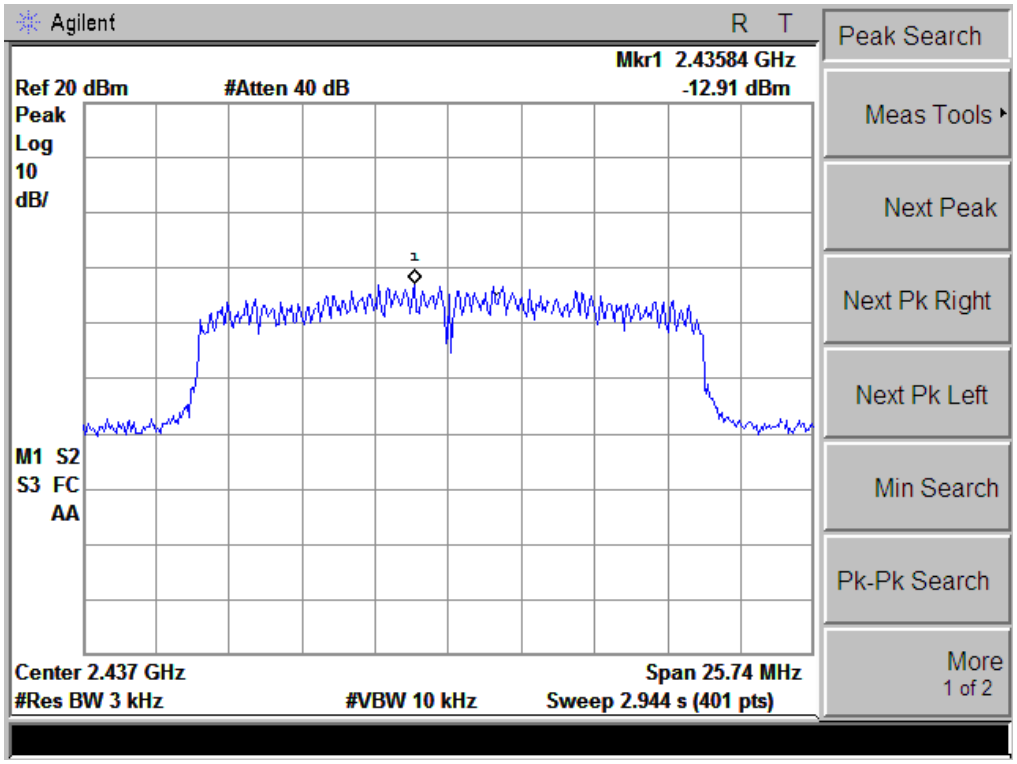
Note:

1. A(B) Represent the value of antennaA and B,The worst data is A Antenna a ,only shown Antenna A Plot.

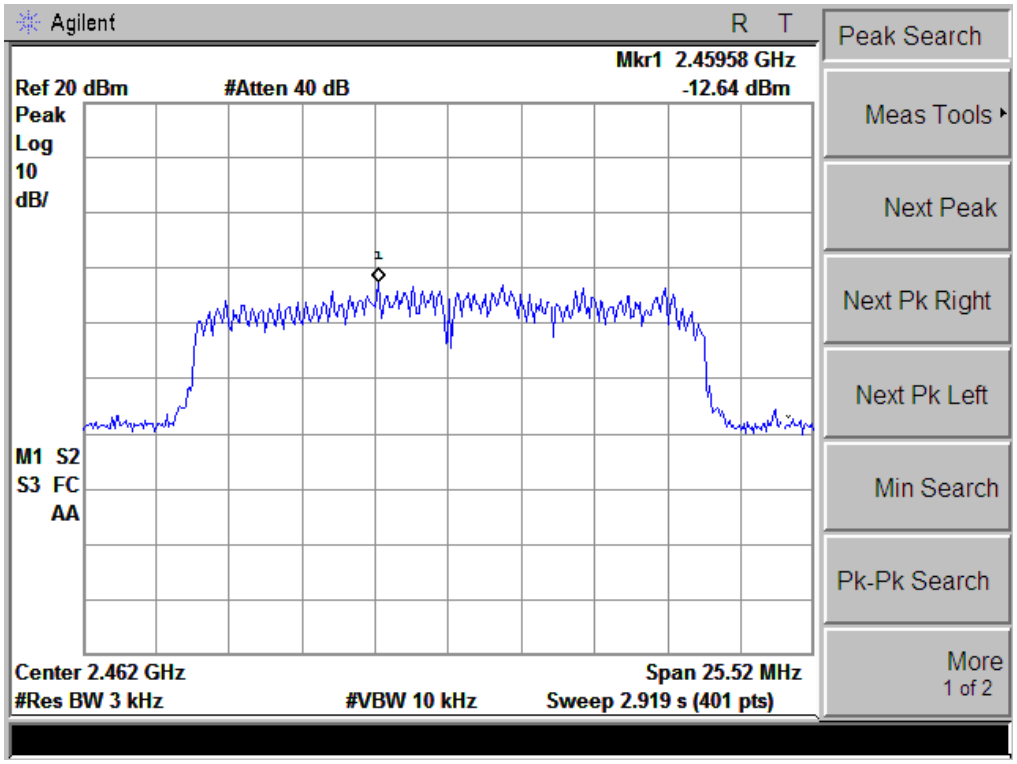
TX CH01



TX CH06



TX CH11



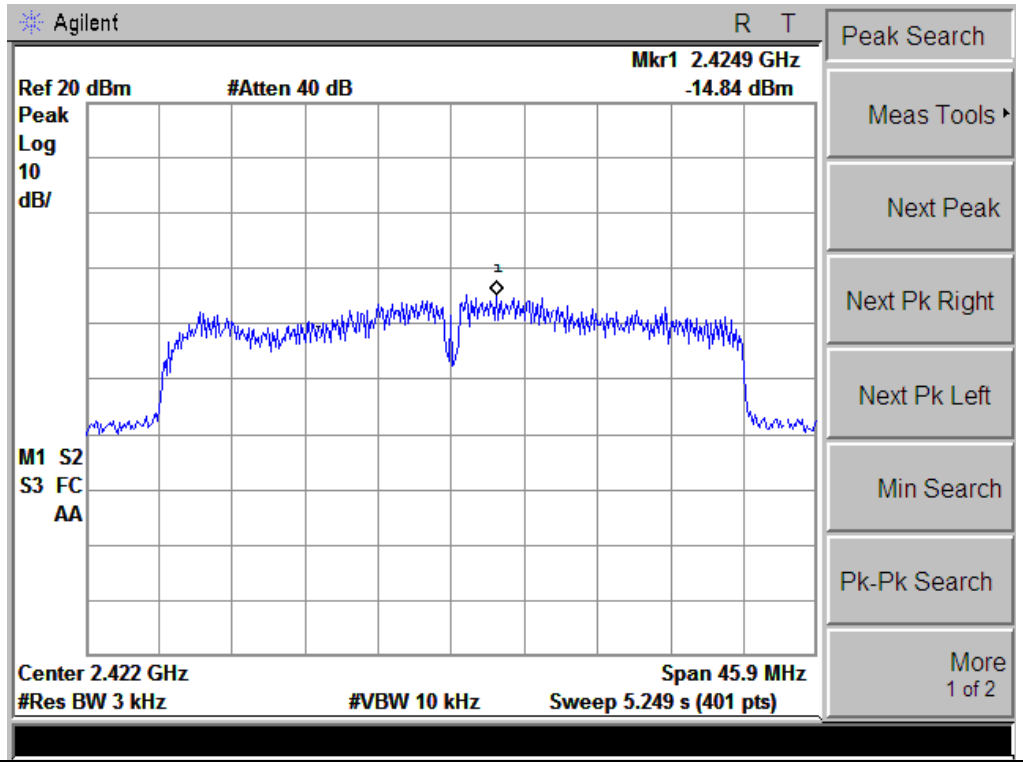
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density A (dBm)	Power Density B (dBm)	Total Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-14.84	-15.05	-11.93	8	**PASS**
2437 MHz	-14.19	-14.32	-11.25	8	**PASS**
2452 MHz	-15.06	-15.63	-12.27	8	**PASS**

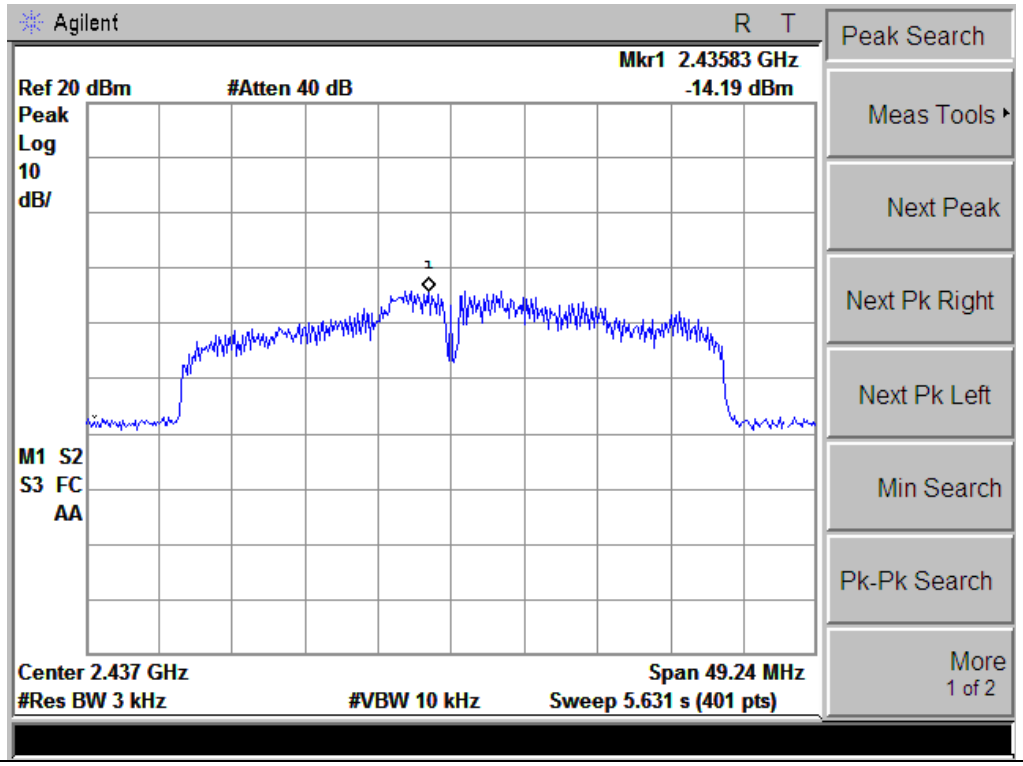
Note:

1. A(B) Represent the value of antenna A and B,The worst data is A Antenna a ,only shown Antenna A Plot.

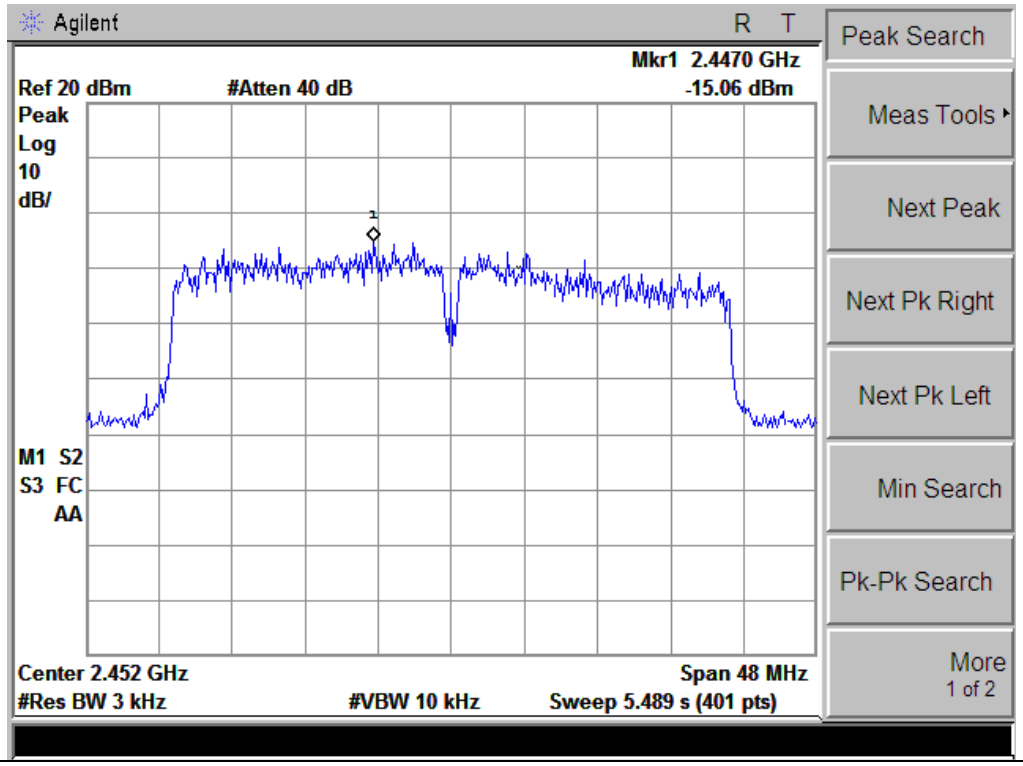
TX CH03



TX CH06



TX CH11



5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 TEST PROCEDURE

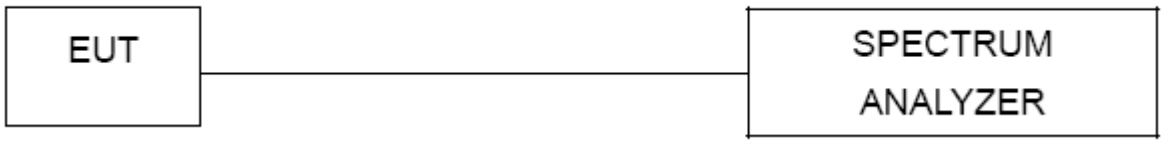
a.

1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

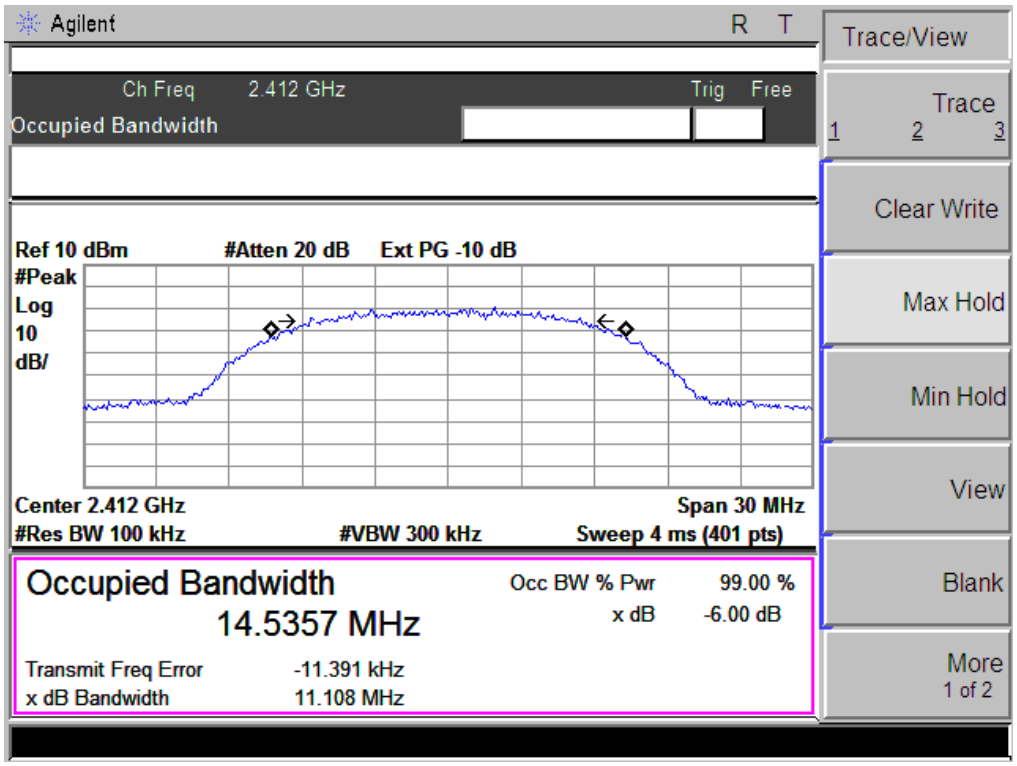
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

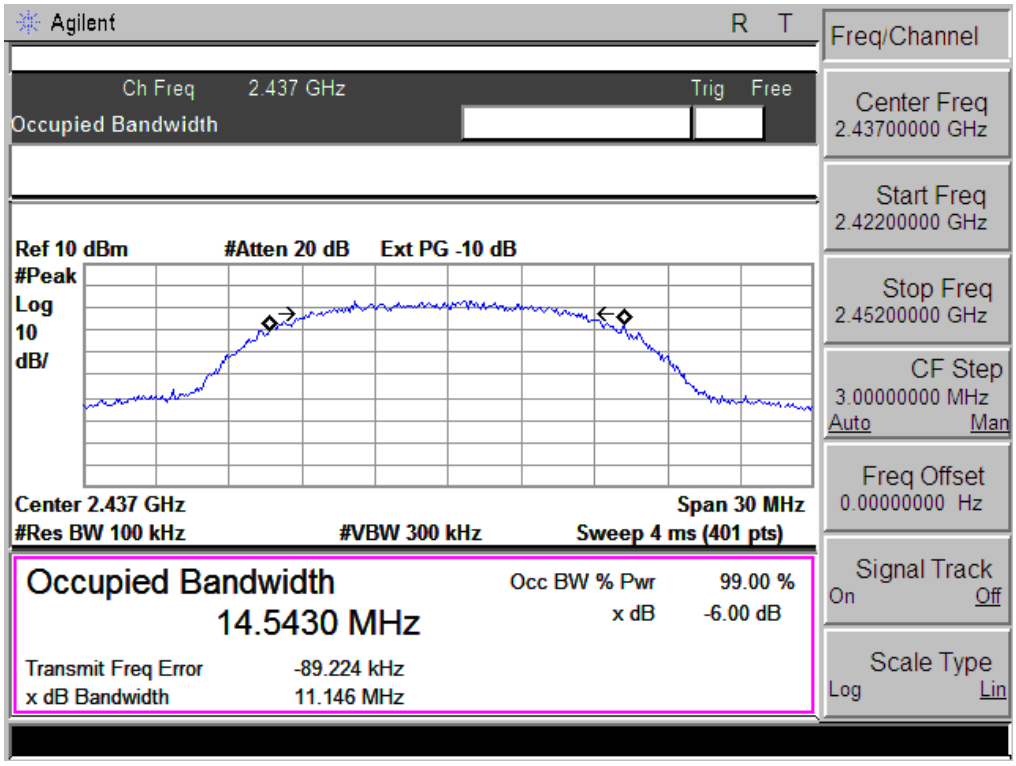
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	11.11	14.54	>=500KHz	**PASS**
2437 MHz	11.15	14.54	>=500KHz	**PASS**
2462 MHz	10.84	14.59	>=500KHz	**PASS**

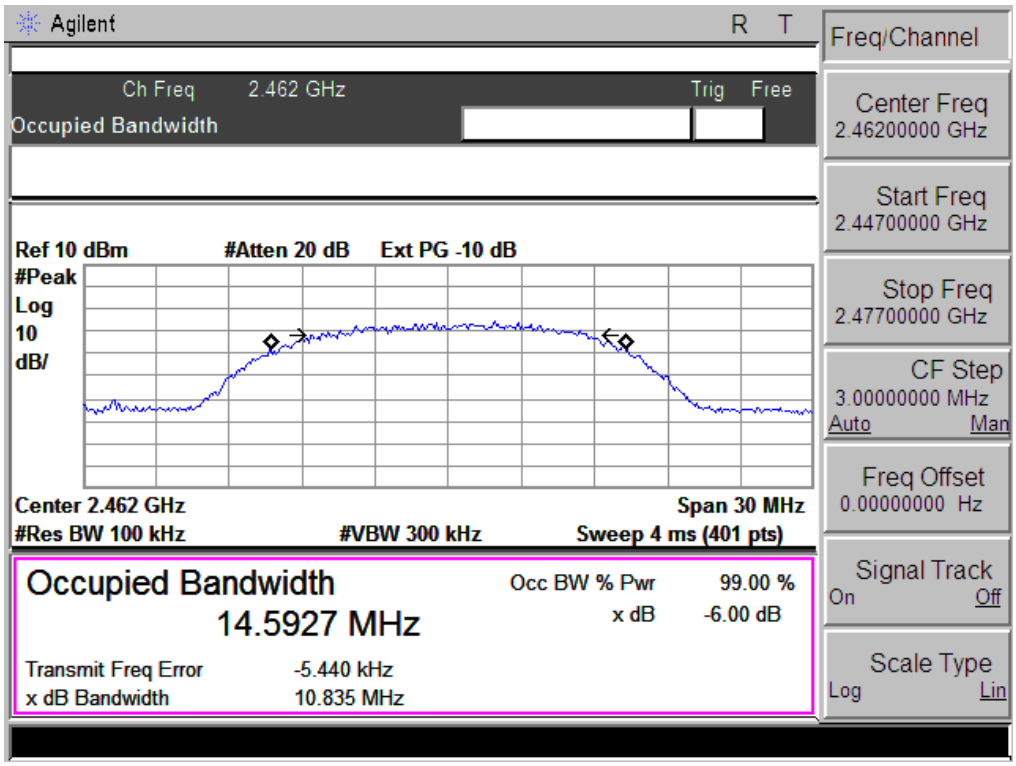
TX CH 01



TX CH 06



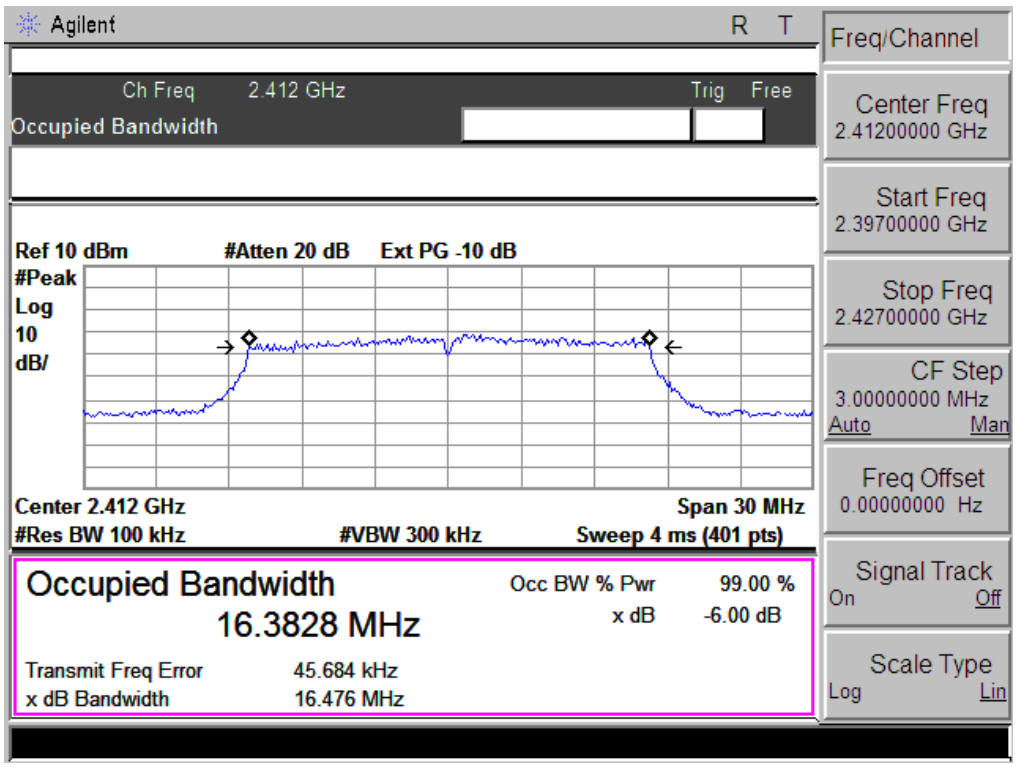
TX CH 11



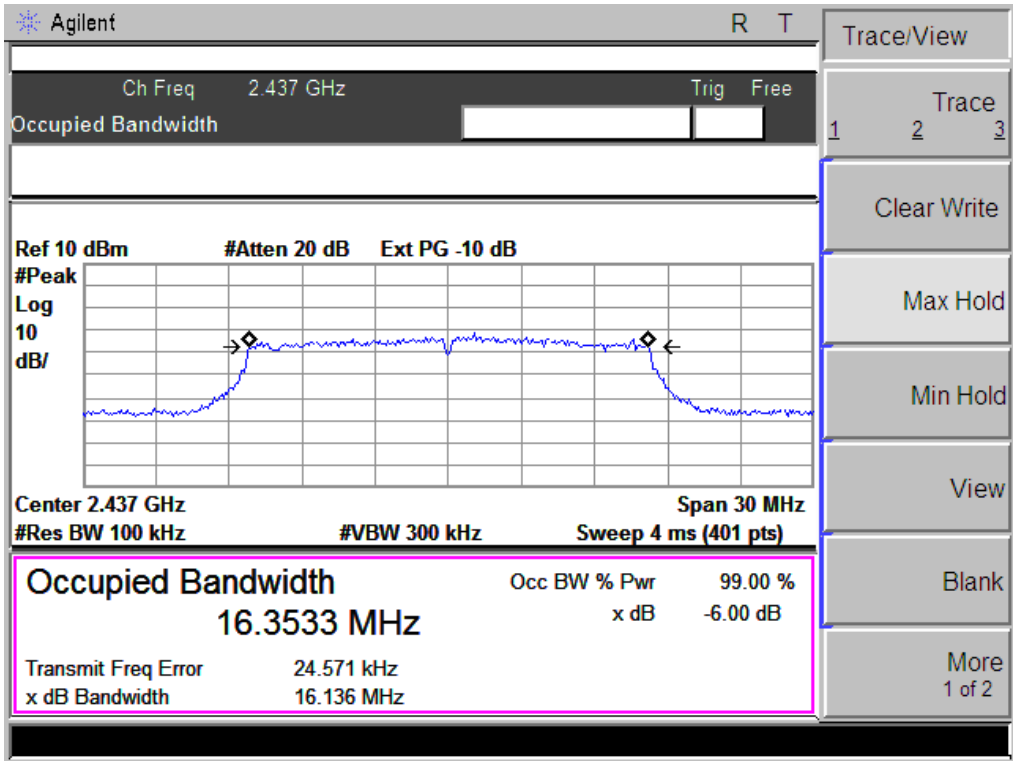
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.48	16.38	>=500KHz	**PASS**
2437 MHz	16.14	16.35	>=500KHz	**PASS**
2462 MHz	16.37	16.32	>=500KHz	**PASS**

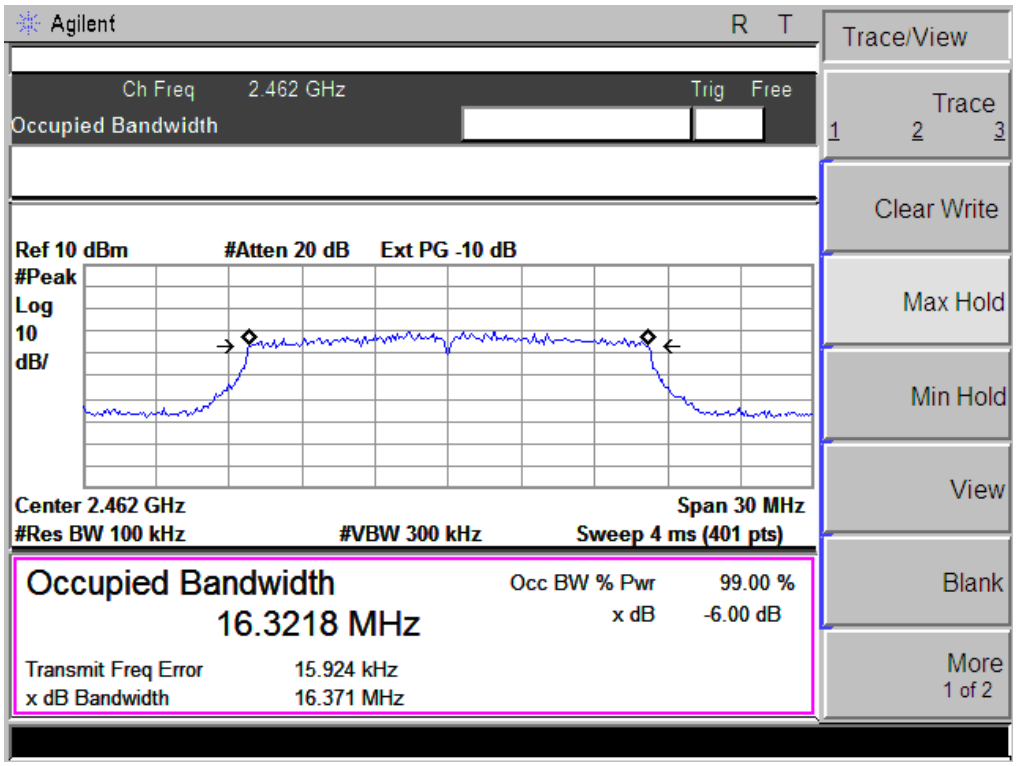
TX CH 01



TX CH 06



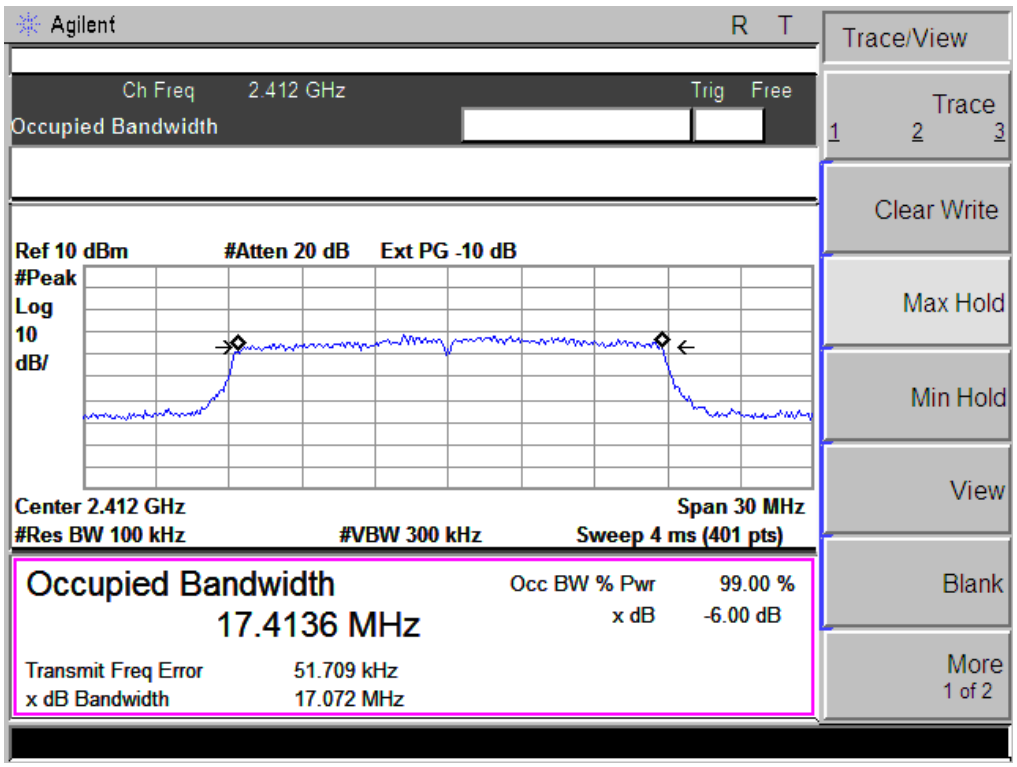
TX CH 11



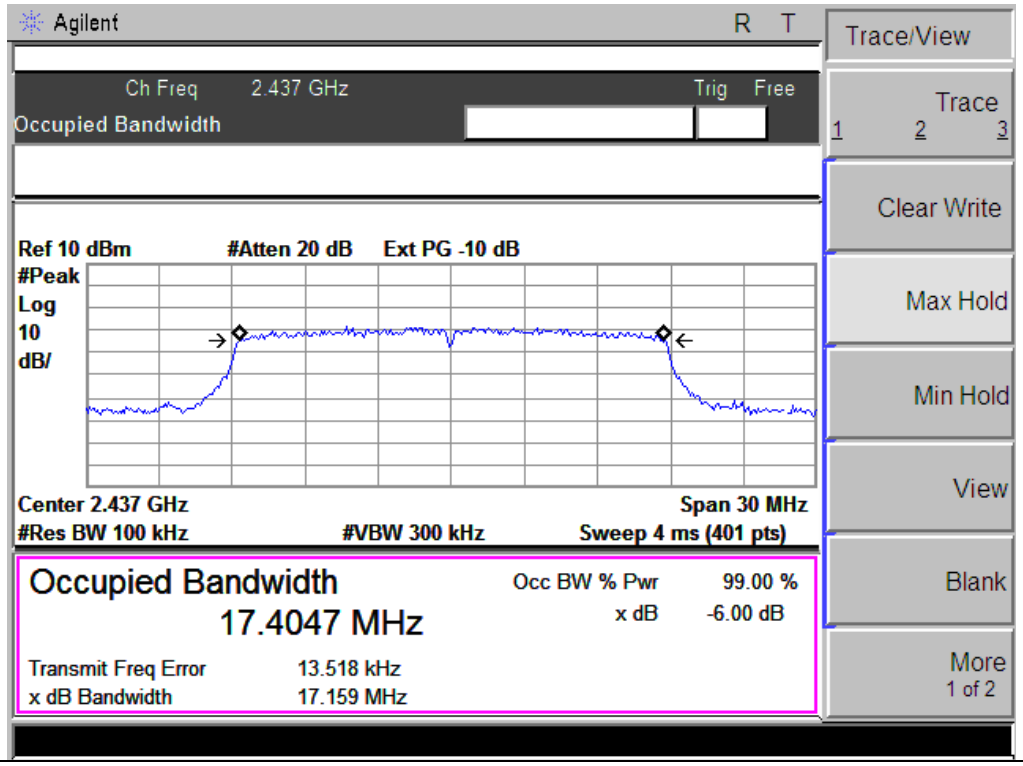
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.07	17.41	>=500KHz	**PASS**
2437 MHz	17.16	17.41	>=500KHz	**PASS**
2462 MHz	17.01	17.40	>=500KHz	**PASS**

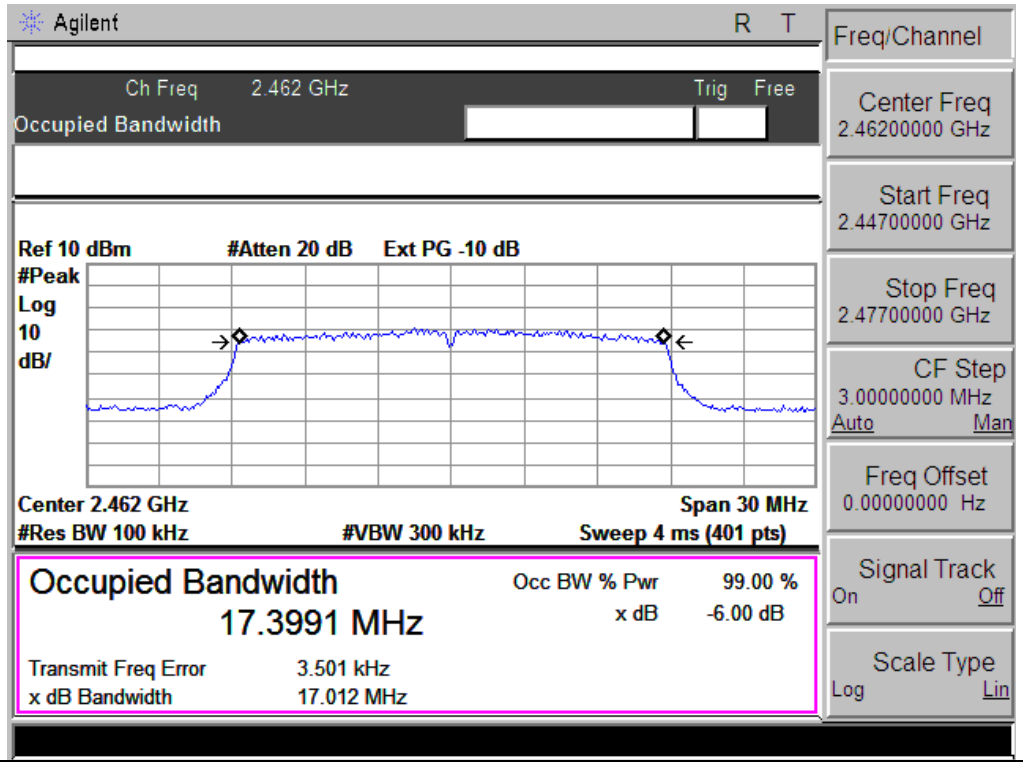
TX CH 01



TX CH 06



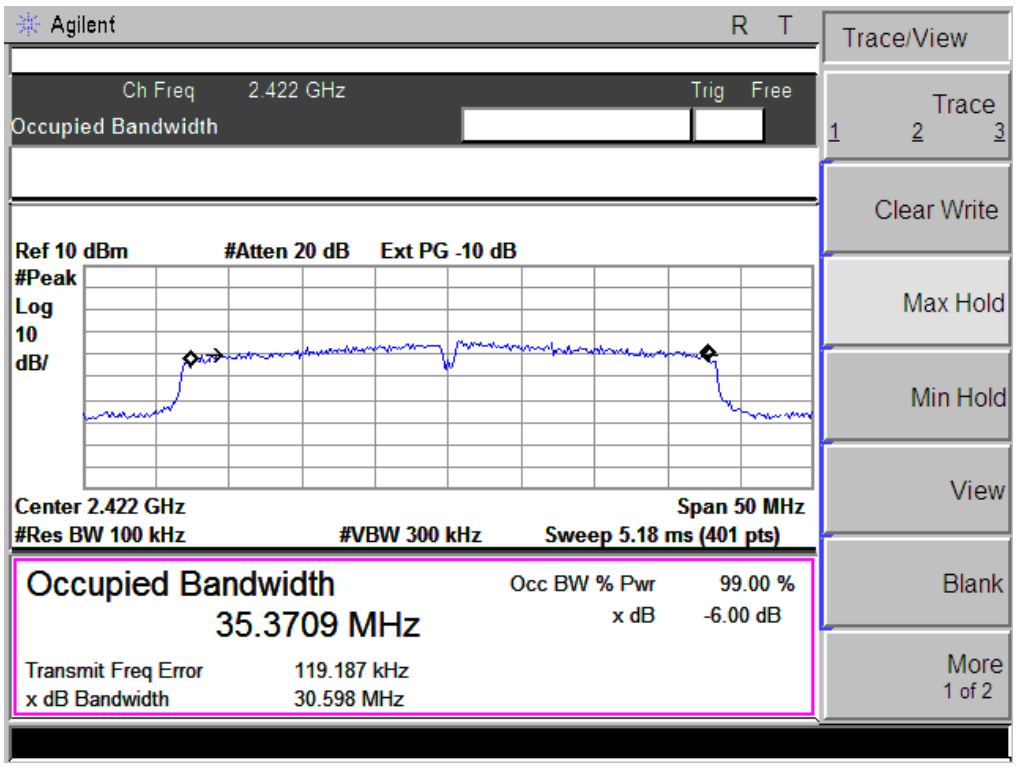
TX CH 11



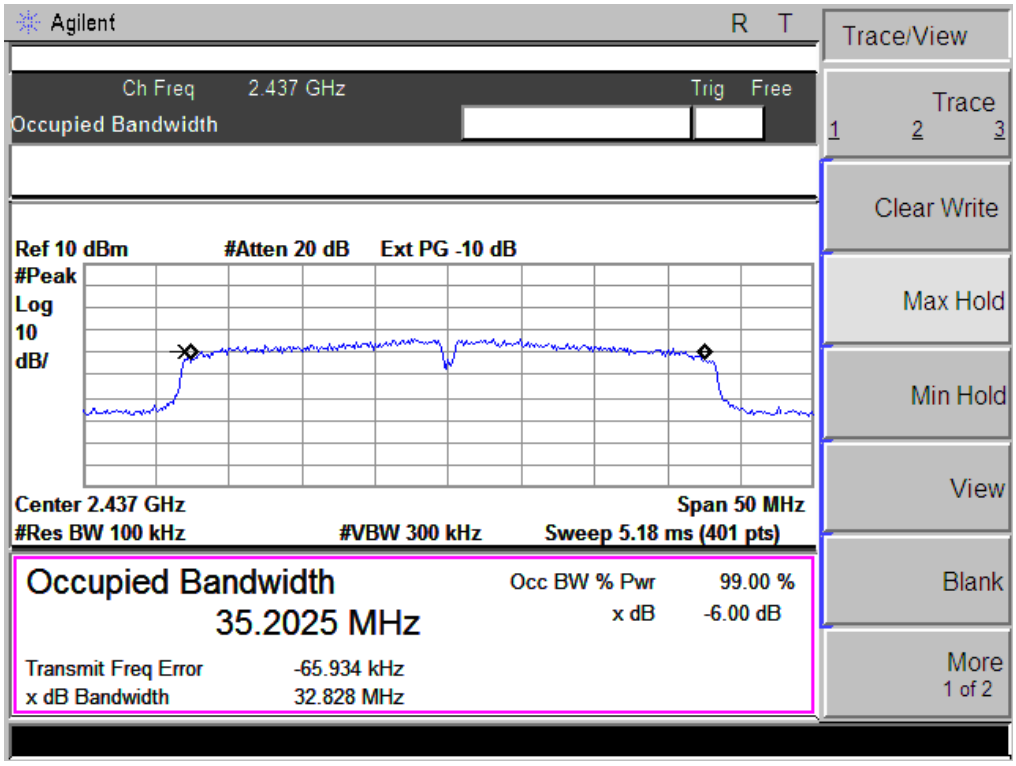
EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Channel Separation (MHz)	Result
2422 MHz	30.60	35.37	>=500KHz	**PASS**
2437 MHz	32.83	35.20	>=500KHz	**PASS**
2452 MHz	32.00	35.26	>=500KHz	**PASS**

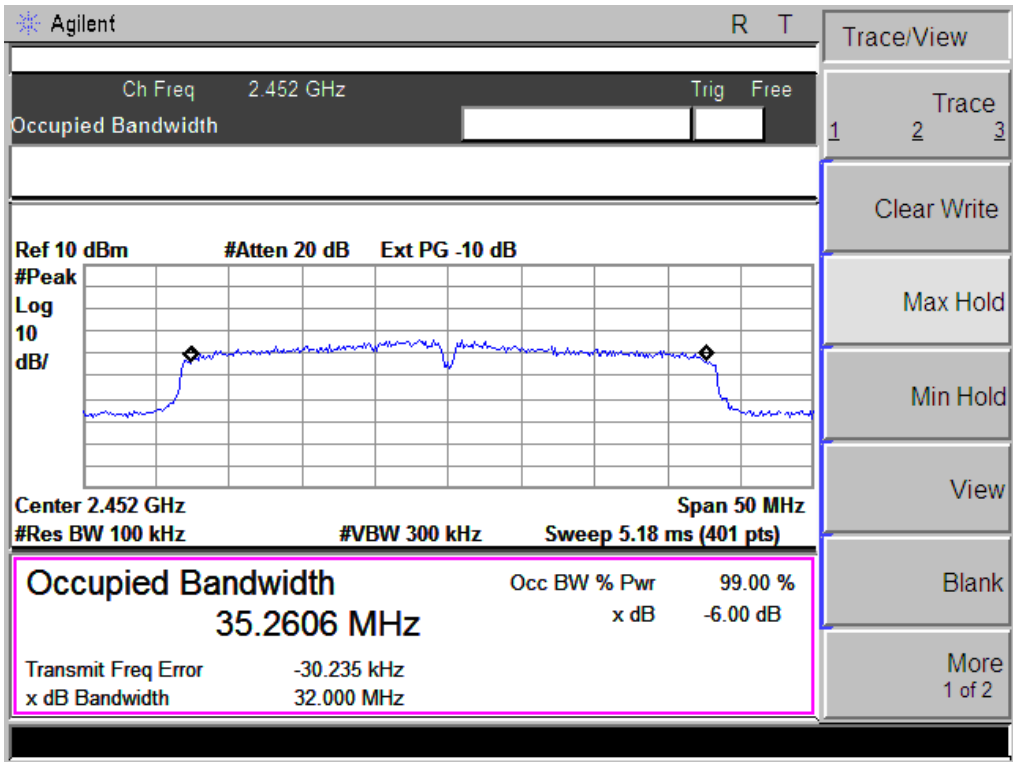
TX CH 03



TX CH 06



TX CH 09



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

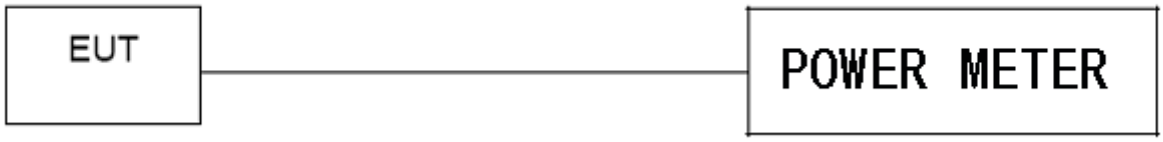
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT：	300Mbps High Power Gigabit Wireless Router	Model Name ：	JHR-N926R+
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 12V from adapter AC 120V/60Hz
Test Mode ：	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

Test Channe	Frequency	Peak output power. Antenna A port	Peak output power. Antenna B port	Total Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm	dBm
TX 802.11b Mode					
CH01	2412	18.87	18.65	**N/A**	30
CH06	2437	18.45	18.34	**N/A**	30
CH11	2462	18.67	18.32	**N/A**	30
TX 802.11g Mode					
CH01	2412	17.93	17.72	**N/A**	30
CH06	2437	17.39	17.55	**N/A**	30
CH11	2462	17.47	17.84	**N/A**	30
TX 802.11n/20M Mode					
CH01	2412	16.95	16.52	**19.75**	29
CH06	2437	16.83	16.48	19.67	29
CH11	2462	16.76	16.38	19.58	29
TX 802.11n/40M Mode					
CH03	2422	15.76	15.77	18.78	29
CH06	2437	15.48	15.43	18.47	29
CH11	2452	15.57	15.70	18.65	29

Note: A(B) Represent the value of antennaA and B,

For MIMO mode , Limit =30-7+6=29dBm for output power.

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

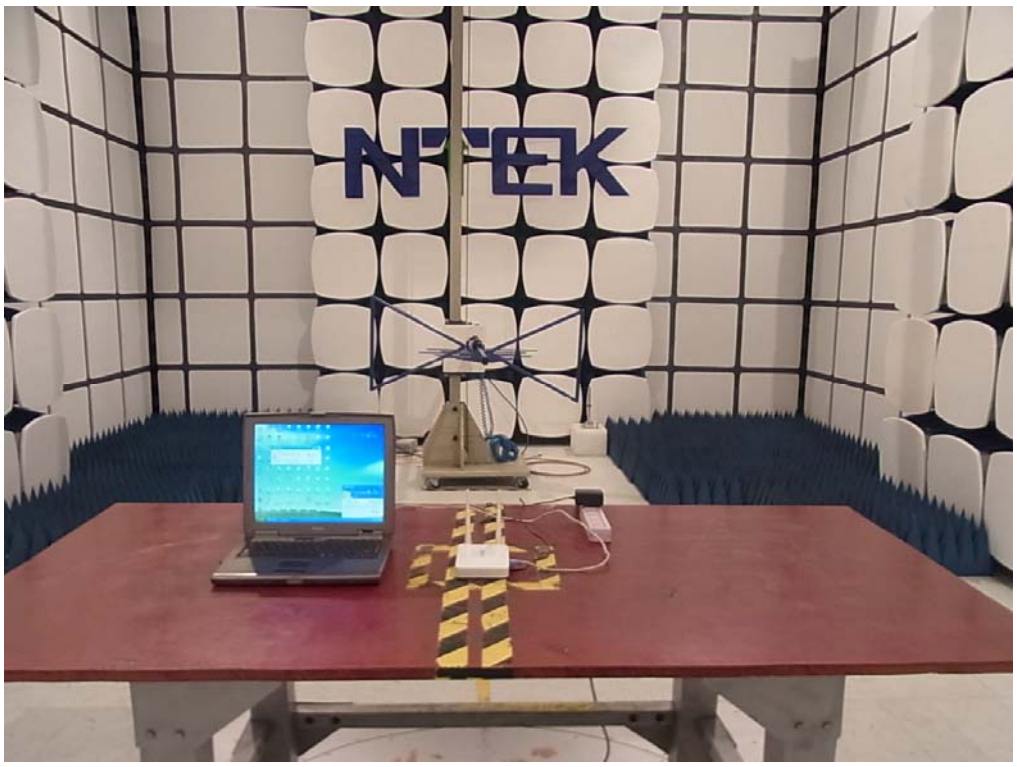
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

The EUT antenna is external antenna(Reserve SMA-type). It comply with the standard requirement.

8. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos