

FCC ID:W6RRNX-N300RT

FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Rosewill Inc.

300M Wireless N Router

Model No.: RNX-N300RT

FCC ID: W6RRNX-N300RT

Prepared for: Rosewill Inc.

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Report Number : ACS-F11250
Date of Test : Nov.03~04, 2011
Date of Report : Nov.08, 2011



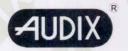
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CC ID: W6RRNX-N300RT

TEST REPORT CERTIFICATION

Applicant

Rosewill Inc.

Manufacturer

Rosewill Inc.

EUT Description

300M Wireless N Router

FCC ID

W6RRNX-N300RT

(A) MODEL NO.

: RNX-N300RT

(B) SERIAL NO.

: N/A

(C) POWER SUPPLY: DC 9V

(D) TEST VOLTAGE: DC 9V From Adapter Input, AC 120V/60Hz

Tested for comply with:

FCC Rules and Regulations Part 15 Subpart C: 2008

Test procedure used:

ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Nov.03~04, 2011 Date of Test: Report of date: Nov.08, 2011

Prepared by:

Cerry He/ Assistant

Reviewer by:

® 常業科技(深圳) aSunny Lu / Supervisor

Audix Technology (Shenzhen) Co., Ltd. EMC部門報告専用章

Stamp only for EMC Dept. Report Signature:

Approved & Authorized Signer:

Ken Lu / Manager



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1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | | | | |
|--------------------------------|---------------------|---------|--|--|--|
| Description of Test Item | Standard | Results | | | |
| Downer Line Conducted Emission | FCC Part 15: 15.207 | PASS | | | |
| Power Line Conducted Emission | ANSI C63.10: 2009 | rass | | | |
| Padiated Emission | FCC Part 15: 15.209 | PASS | | | |
| Radiated Emission | ANSI C63.10: 2009 | PASS | | | |
| Danid Edan Camaliana | FCC Part 15: 15.247 | PASS | | | |
| Band Edge Compliance | ANSI C63.10: 2009 | PASS | | | |
| Conducted annuious emissions | FCC Part 15: 15.247 | PASS | | | |
| Conducted spurious emissions | ANSI C63.10: 2009 | PASS | | | |
| CID Don don't like | FCC Part 15: 15.247 | | | | |
| 6dB Bandwidth | ANSI C63.10: 2009 | PASS | | | |
| Deale Ordered Decrees | FCC Part 15: 15.247 | PASS | | | |
| Peak Output Power | ANSI C63.10: 2009 | PASS | | | |
| Decree Constant Decree | FCC Part 15: 15.247 | DAGG | | | |
| Power Spectral Density | ANSI C63.10: 2009 | PASS | | | |
| Antenna requirement | FCC Part 15: 15.203 | PASS | | | |



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2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product Name : 300M Wireless N Router

Model Number : RNX-N300RT

FCC ID : W6RRNX-N300RT

Operation Frequency : IEEE 802.11b: 2412MHz—2462MHz

IEEE 802.11g: 2412MHz—2462MHz

IEEE802.11n HT20: 2412MHz—2462MHz IEEE802.11n HT40: 2422MHz—2452MHz

Channel Number : IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels

IEEE 802.11n HT40: 7Channels

Modulation Technology: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,

QPSK,BPSK)

Antenna Assembly

Gain

Dipole Antenna, MIMO 2x2, 5dBi Peak gain

Applicant : Rosewill Inc.

17708 Rowland Street, City of Industry, CA 91748, USA

Manufacturer : Rosewill Inc.

17708 Rowland Street, City of Industry, CA 91748, USA

Power Adapter : Manufacturer: VASATA, M/N: P090060-2B1

Unshielded, Detachable, 1.5m

Date of Test : Nov.03~04, 2011

Date of Receipt : Nov.03, 2011

Sample Type : Prototype production



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2.2.Test Information

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

| Tested mode, channel | Tested mode, channel, and data rate information | | | | | | |
|----------------------|---|-------------|-----------|--|--|--|--|
| Mode | data rate | Channel | Frequency | | | | |
| | (Mpbs)(see Note) | | (MHz) | | | | |
| IEEE 802.11b | 11 | Low:CH1 | 2412 | | | | |
| | 11 | Middle: CH6 | 2437 | | | | |
| | 11 | High: CH11 | 2462 | | | | |
| IEEE 802.11g | 54 | Low:CH1 | 2412 | | | | |
| | 54 | Middle: CH6 | 2437 | | | | |
| | 54 | High: CH11 | 2462 | | | | |
| IEEE 802.11n HT20 | 6.5 | Low:CH1 | 2412 | | | | |
| | 6.5 | Middle: CH6 | 2437 | | | | |
| | 6.5 | High: CH11 | 2462 | | | | |
| IEEE 802.11n HT40 | 13.5 | Low:CH1 | 2422 | | | | |
| | 13.5 | Middle: CH4 | 2437 | | | | |
| | 13.5 | High: CH7 | 2452 | | | | |

Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note2: This device use MIMO 2X2 antennas ,all the radiated spurious emissions and band edge test were performed with two antennas transmit synchronous.

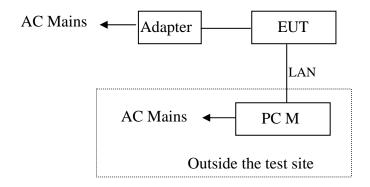


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2.3. Tested Supporting System Details

| | Description | ACS No. | Manufacturer | Model | Serial Number | Approved type | | | | |
|---|--------------|--|---|------------|------------------------------|-------------------------------|--|--|--|--|
| 1 | Personal | Test PC M | DELL | Studio 540 | 1 774 X K 7 X | ☑FCC DoC ☑BSMI ID:R33002 | | | | |
| 1 | • | | Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI) | | | | | | | |
| | | ACS-EMC-LM03R | DELL | 1907FPt | CN-009759-7161 8-6CG-BDWV | ☑FCC DoC ☑BSMI ID: R3A002 | | | | |
| 2 | | Power Cord: Unshielded, Detachable, 1.8m VGA Cable: Shielded, Detachable, 2.0m (with two cores) DVI Cable: Shielded, Detachable, 2.0m (with two cores) | | | | | | | | |
| 5 | USB Keyboard | ACS-EMC- K03R | DELL | SK-8115 | CN-ODJ313-716 16-711-04WJ | ☑ FCC DoC ☑BSMI ID: T3A002 | | | | |
| 3 | • | Power Cord: shielded, Undetachable, 2.0m | | | | | | | | |
| 7 | USB Mouse | ACS-EMC-M03R | DELL | M056UO | 1 512023253 | ☑ FCC DoC ☑BSMI ID: R41108 | | | | |
| , | | Power Cord: shielded, | Undetachable, | 1.8m | | | | | | |

2.4. Block diagram of connection between the EUT and simulators



PC run test software to control EUT work in Continuous TX mode

(EUT: 300M Wireless N Router)



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2.5. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen,

Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 90454 Valid Date: Mar.31, 2012

3m & 10m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 794232 Valid Date: Dec.30, 2012

EMC Lab. : Certificated by Industry Canada

Registration Number: IC 5183A-1

Valid Date: Jun.13, 2014

: Certificated by DAkkS, Germany

Registration No: D-PL-12151-01-01

Valid Date: Feb.01, 2014

Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2012

2.6. Measurement Uncertainty (95% confidence levels, k=2)

| Test Item | Uncertainty |
|--|-----------------------------------|
| Uncertainty for Conduction emission test in No. 1 Conduction | 3.2 dB (150KHz to 30MHz) |
| | 3.6 dB(30~200MHz, Polarize: H) |
| Uncertainty for Radiation Emission test | 3.7 dB(30~200MHz, Polarize: V) |
| in 3m chamber | 4.0 dB(200M~1GHz, Polarize: H) |
| | 3.7 dB(200M~1GHz, Polarize: V) |
| Uncertainty for Radiation Emission test in | 3.1dB (Distance: 3m Polarize: V) |
| 3m chamber (1GHz-18GHz) | 3.7 dB (Distance: 3m Polarize: H) |
| Uncertainty for Radiated Spurious | 3.57 dB |
| Emission test in RF chamber | 3.37 db |
| Uncertainty for Conduction Spurious | 2.00 dB |
| emission test | 2.00 dB |
| Uncertainty for Output power test | 0.73 dB |
| Uncertainty for Power density test | 2.00 dB |
| Uncertainty for Frequency range test | $7x10^{-8}$ |
| Uncertainty for Bandwidth test | 83 kHz |
| Uncertainty for DC power test | 0.038 % |
| Uncertainty for test site temperature and | $0.6^{\circ}\mathbb{C}$ |
| humidity | 3% |



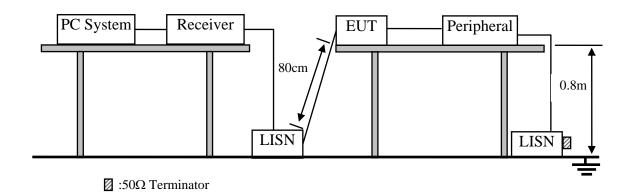
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3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|------------|---------------|------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESHS10 | 838693/001 | Nov.05, 10 | 1 Year |
| 2. | L.I.S.N.#1 | Rohde & Schwarz | ESH2-Z5 | 834066/011 | Nov.05, 10 | 1 Year |
| 3. | L.I.S.N.#3 | Kyoritsu | KNW-242C | 8-1920-1 | May 08, 11 | 1 Year |
| 4. | Terminator | Hubersuhner | 50Ω | No. 1 | May 08, 11 | 1 Year |
| 5. | RF Cable | Fujikura | 3D-2W | LISN Cable 1# | May 08, 11 | 1Year |
| 6. | Coaxial Switch | Anritsu | MP59B | M55367 | May 08, 11 | 1 Year |
| 7. | Passive Probe | Rohde & Schwarz | ESH2-Z3 | 299.7810.52 | May 08, 11 | 1 Year |
| 8. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100341 | May 08, 11 | 1 Year |

3.2.Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

| | Maximum RF Line Voltage | | | |
|-----------------|-------------------------|---------------|--|--|
| Frequency | Quasi-Peak Level | Average Level | | |
| | $dB(\mu V)$ | $dB(\mu V)$ | | |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* | | |
| 500kHz ~ 5MHz | 56 | 46 | | |
| 5MHz ~ 30MHz | 60 | 50 | | |

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.



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3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1.300M Wireless N Router (EUT)

Model Number : RNX-N300RT

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.3.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 2.4.

- 3.5.2. Turned on the power of all equipment.
- 3.5.3.PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

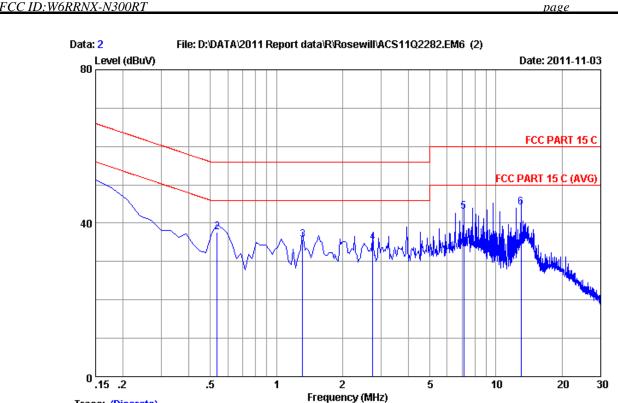
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)



Trace: (Discrete)

Site no :1#conduction Data No :2

Dis./Ant. :** 2011 ESH2-Z5 LINE

Limit :FCC PART 15 C

Env./Ins. :29.5*C/55% Engineer :Leo_Li

EUT :300M Wireless N Router

Power Rating :DC 9V Adaptor Input AC 120V/60Hz

Test Mode :Tx Mode :RNX-N300RT

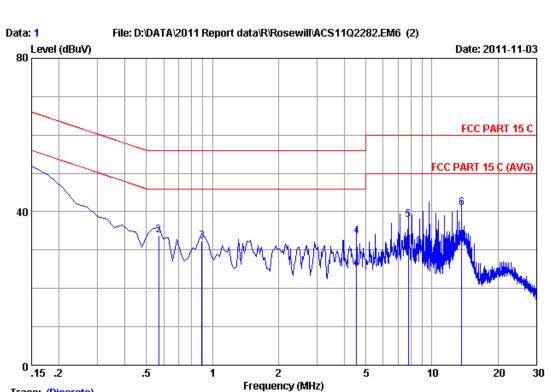
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emissio Level (dBuV) | n Limits (dBuV) | Margin (dB) | Remark |
|--------|---------------|------------------------|-----------------------|-------------------|----------------------------|-----------------------|----------------|--------|
| 1 | 0.15000 | 0.17 | 9.98 | 39.20 | 49.35 | 66.00 | 16.65 | QP |
| 2 | 0.53805 | 0.19 | 9.98 | 27.44 | 37.61 | 56.00 | 18.39 | QP |
| 3 | 1.314 | 0.26 | 9.97 | 25.39 | 35.62 | 56.00 | 20.38 | QP |
| 4 | 2.747 | 0.32 | 9.95 | 24.76 | 35.03 | 56.00 | 20.97 | QP |
| 5 | 7.135 | 0.48 | 9.92 | 32.69 | 43.09 | 60.00 | 16.91 | QP |
| 6 | 12.986 | 0.85 | 9.91 | 33.26 | 44.02 | 60.00 | 15.98 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.

2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



FCC ID:W6RRNX-N300RT



Trace: (Discrete)

:1#conduction Site no

Data No

Engineer :Leo_Li

Dis./Ant. :** 2011 ESH2-Z5 NEUTRAL

:FCC PART 15 C Limit

Env./Ins. :29.5*C/55%

:300M Wireless N Router

Power Rating :DC 9V Adaptor Input AC 120V/60Hz

Test Mode :Tx Mode :RNX-N300RT

| | | LISN | Cable | | Emissio | n | | |
|----|---------------|----------------|--------------|-------------------|-----------------|------------------|----------------|--------|
| No | Freq (MHz) | Factor (dB) | Loss (dB) | Reading (dBuV) | Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
| 1 | 0.15000 | 0.21 | 9.98 | 39.69 | 49.88 | 66.00 | 16.12 | OP |
| 2 | 0.56790 | 0.22 | 9.98 | 23.78 | 33.98 | 56.00 | 22.02 | QP |
| 3 | 0.89625 | 0.24 | 9.98 | 22.04 | 32.26 | 56.00 | 23.74 | QP |
| 4 | 4.538 | 0.32 | 9.93 | 23.34 | 33.59 | 56.00 | 22.41 | QP |
| 5 | 7.792 | 0.41 | 9.91 | 27.51 | 37.83 | 60.00 | 22.17 | QP |
| 6 | 13.642 | 0.56 | 9.92 | 30.60 | 41.08 | 60.00 | 18.92 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.

> 2. If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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4. RADIATED EMISSION TEST

4.1.Test Equipment

4.1.1. For frequency range 30MHz~1000MHz (At Anechoic Chamber)

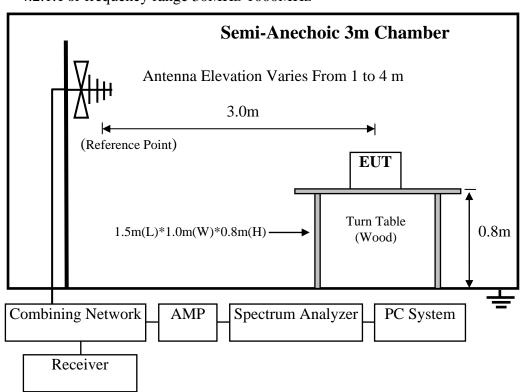
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------|-----------------|-----------|-----------------|------------|---------------|
| 1 | 3#Chamber | AUDIX | N/A | N/A | Dec.06,10 | 1 Year |
| 2 | EMI Spectrum | Agilent | E4407B | MY41440292 | May.08, 11 | 1 Year |
| 3 | Test Receiver | Rohde & Schwarz | ESVS10 | 834468/011 | May.08, 11 | 1 Year |
| 4 | Amplifier | HP | 8447D | 2648A04738 | May.08, 11 | 1 Year |
| 5 | Bilog Antenna | Schaffner | CBL6111C | 2598 | Oct.26, 10 | 1 Year |
| 6 | RF Cable | MIYAZAKI | 8D-FB | 3# Chamber No.1 | May.08, 11 | 1 Year |
| 7 | Coaxial Switch | Anritsu | MP59B | M73989 | May.08, 11 | 1 Year |

4.1.2. For frequency range 1GHz~6GHz (At Anechoic Chamber)

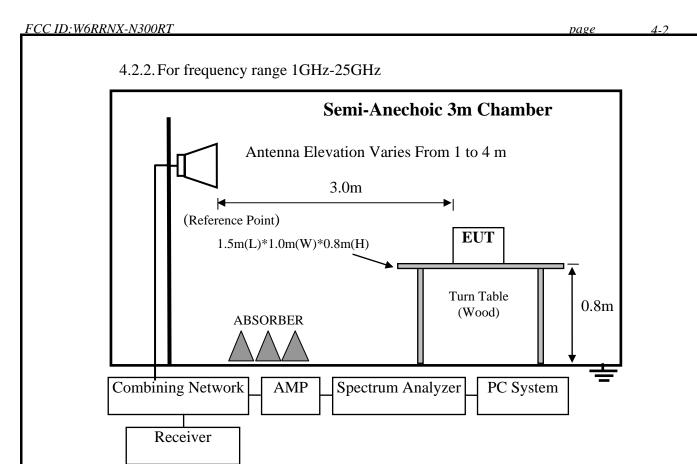
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-------------|------------|-------------|---------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | MY41440292 | May.08, 11 | 1 Year |
| 2 | Horn Antenna | EMCO | 3115 | 9607-4877 | July.01, 11 | 1 Year |
| 3 | Horn Antenna | EMCO | 3116 | 00060089 | Nov.25, 10 | 1.5 Year |
| 4 | Amplifier | Agilent | 8449B | 3008A00863 | May.08, 11 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX102 | 28622/2 | May.08, 11 | 1 Year |
| 6 | RF Cable | Hubersuhner | SUCOFLEX102 | 29091/2 | May.08, 11 | 1 Year |

4.2.Block Diagram of Test Setup

4.2.1. For frequency range 30MHz-1000MHz







4.3. Radiated Emission Limit

4.3.1.15.209 limits

| FREQUENCY | DISTANCE | FIELD STRENGTHS LIMI | |
|------------|----------|----------------------|----------------|
| MHz | Meters | μV/m | $dB(\mu V)/m$ |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV | /)/m (Peak) |
| | | 54.0 dB(μV | V)/m (Average) |

Remark : (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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4.3.2.15.205 Restricted bands of operation

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

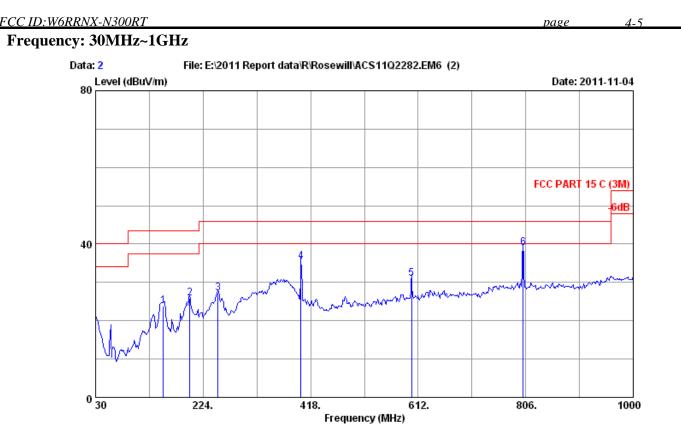
The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.



| FCC ID:W6RRNX-N300RT | page | 4-4 |
|--|------------------|---------------|
| 4.7. Radiated Emission Test Results | | |
| PASS. | | |
| All the emissions from 30MHz to 25 GHz were comply with 15 | .209 limits. | |
| Note: For emissions above 1GHz, if peak level comply with average limit. | erage limit, the | n the average |
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Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL

Engineer : Leo_Li

: FCC PART 15 C (3M) Limit

Env. / Ins. : 24*C/56%

: 300M Wireless N Router

Power rating : DC 9V From Adapter Input AC 120V/60Hz

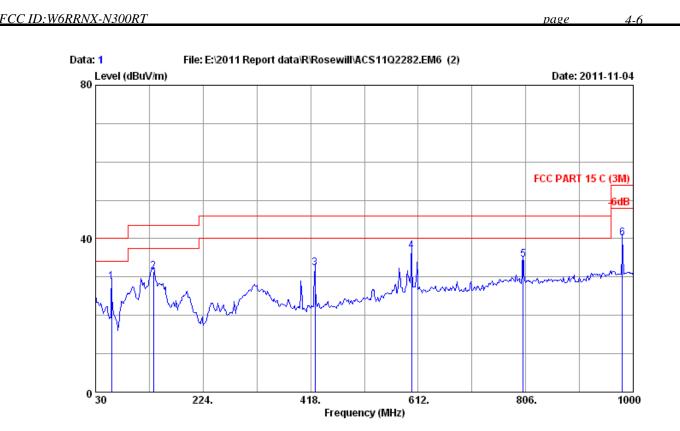
Test Mode : Tx Mode

M/N:RNX-N300RT

| _ | No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | _ | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|-----|----------------|--------------------------|-----------------------|-------|-------------------------------|--------------------|----------------|--------|
| | 1 | 152.220 | 11.48 | 1.51 | 10.95 | 23.94 | 43.50 | 19.56 | QP |
| | 2 | 199.750 | 10.00 | 1.83 | 13.92 | 25.75 | 43.50 | 17.75 | QP |
| | 3 | 251.160 | 12.90 | 2.43 | 11.75 | 27.08 | 46.00 | 18.92 | QP |
| | 4 | 400.540 | 16.41 | 3.34 | 15.70 | 35.45 | 46.00 | 10.55 | QP |
| | 5 | 600.360 | 19.90 | 4.50 | 6.61 | 31.01 | 46.00 | 14.99 | QP |
| | 6 | 801.150 | 22.00 | 5.50 | 11.58 | 39.08 | 46.00 | 6.92 | QP |
| | | | | | | | | | |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 1

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 C (3M)

Env. / Ins. : 24*C/56% Engineer : Leo_Li

EUT : 300M Wireless N Router

Power rating : DC 9V From Adapter Input AC 120V/60Hz

Test Mode : Tx Mode

M/N:RNX-N300RT

| _ | No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| | 1 | 59.100 | 6.22 | 0.89 | 21.58 | 28.69 | 40.00 | 11.31 | QP |
| | 2 | 134.760 | 12.10 | 1.40 | 17.93 | 31.43 | 43.50 | 12.07 | QP |
| | 3 | 425.760 | 17.30 | 3.50 | 11.56 | 32.36 | 46.00 | 13.64 | QP |
| | 4 | 600.360 | 19.90 | 4.50 | 12.26 | 36.66 | 46.00 | 9.34 | QP |
| | 5 | 801.150 | 22.00 | 5.50 | 7.00 | 34.50 | 46.00 | 11.50 | QP |
| | 6 | 980.600 | 23.91 | 6.07 | 10.14 | 40.12 | 54.00 | 13.88 | QP |
| | | | | | | | | | |

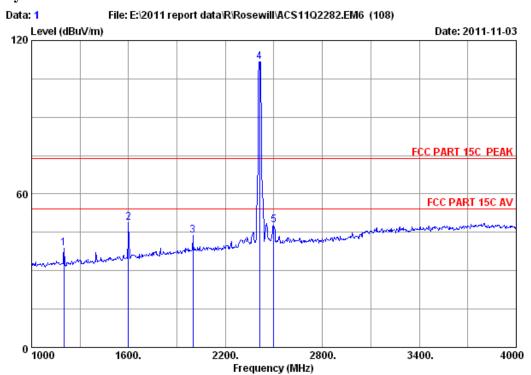
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

The emission levels that are 20dB below the official limit are not reported.





Frequency: 1GHz~18GHz



Site no. : 3m Chamber Data no. : 1

Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115(0911)

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

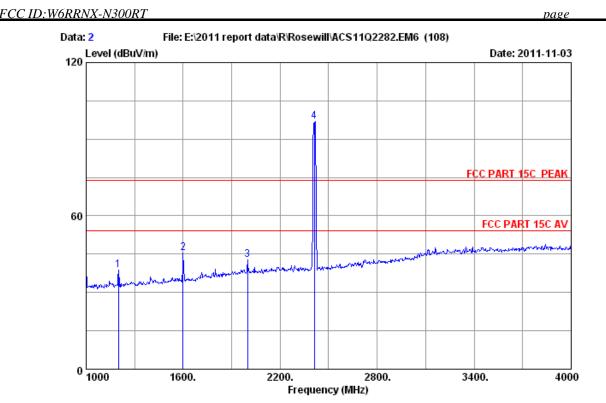
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|---------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/r | n) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 45.23 | 38.66 74.00 | 35.34 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 53.00 | 48.93 74.00 | 25.07 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 44.52 | 43.65 74.00 | 30.35 | Peak |
| 4 | 2412.000 29.45 | 7.43 36.62 | 111.54 | 111.80 74.00 | 37.80 | Peak |
| 5 | 2500.000 29.50 | 7.62 36.60 | 47.32 | 47.84 74.00 | 26.16 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

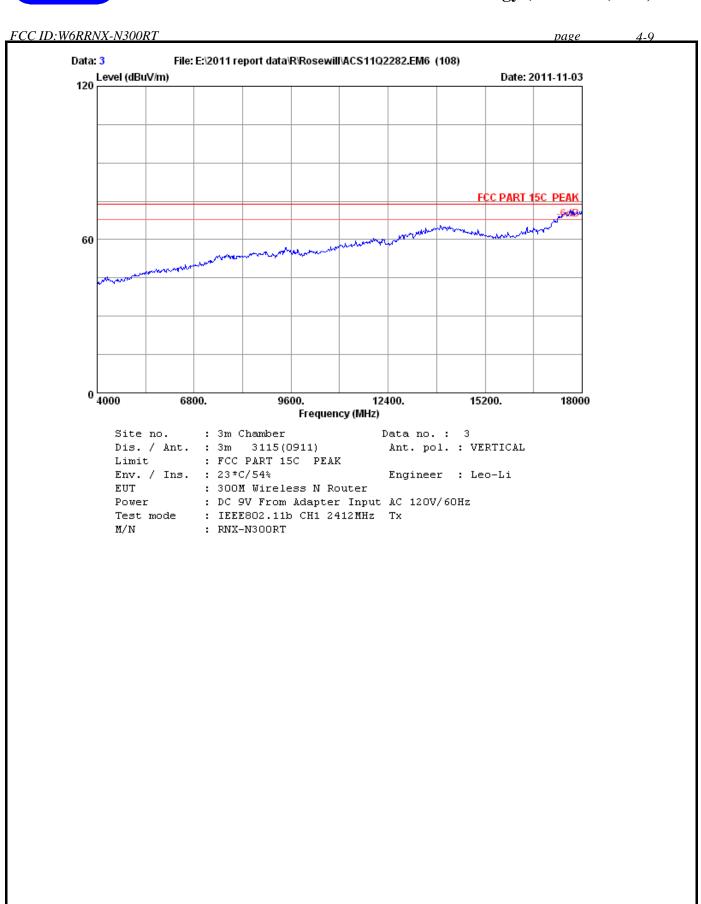
Power : DC 9V From Adapter Input AC 120V/60Hz

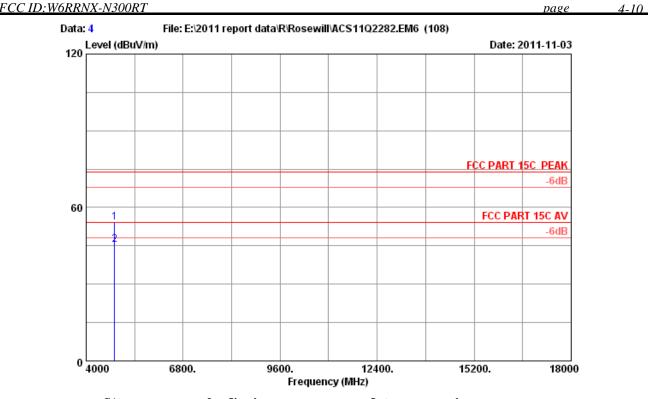
Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|--------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m |) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 45.30 | 38.73 74.00 | 35.27 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 49.51 | 45.44 74.00 | 28.56 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 43.78 | 42.91 74.00 | 31.09 | Peak |
| 4 | 2412.000 29.45 | 7.43 36.62 | 96.62 | 96.88 74.00 | -22.88 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no.: 4

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

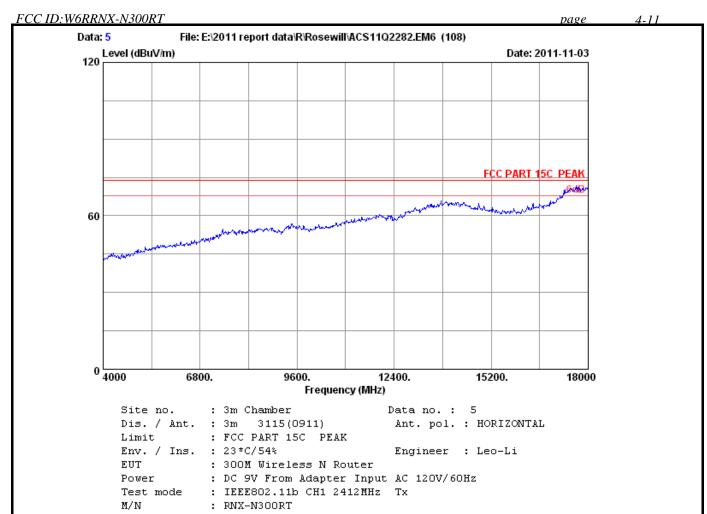
: DC 9V From Adapter Input AC 120V/60Hz Power

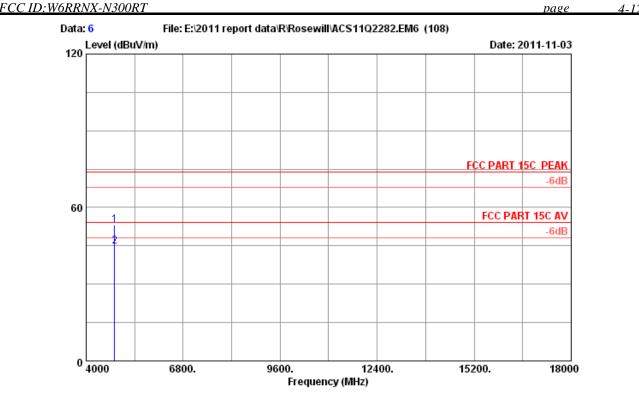
Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : RNX-N300RT

| | - | Ant. Factor (dB/m) | Cable loss (dB) | Reading (dBuV) | | | _ | Remark |
|---|----------------------|--------------------------|-----------------------|-----------------------|----------------|----------------|---------------|-----------------|
| _ | 4824.000 4824.000 | | | 44.21 35.69 | 54.09 45.57 | 74.00 54.00 | 19.91 8.43 | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 6

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

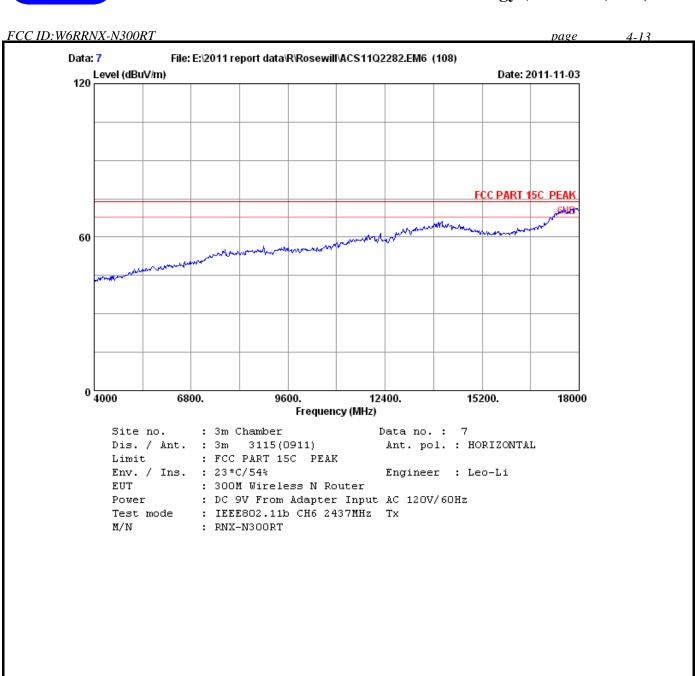
: DC 9V From Adapter Input AC 120V/60Hz Power

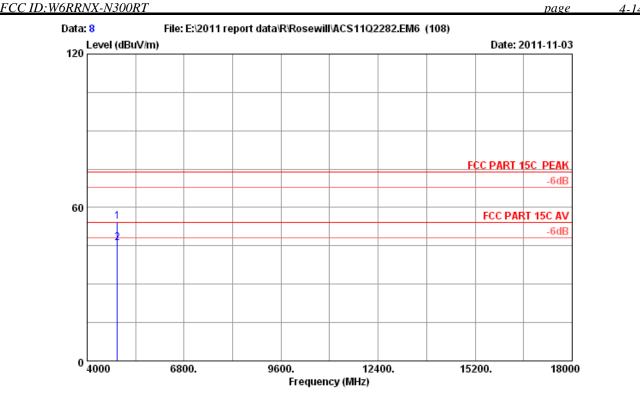
Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : RNX-N300RT

| | | tor loss | Reading (dBuV) | | | _ | Remark |
|---|----------------------------|----------|--------------------|----------------|----------------|---------------|-----------------|
| _ | 4824.000 34 4824.000 34 | | 43.20 34.99 | 53.08 44.87 | 74.00 54.00 | 20.92 9.13 | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no.: 8

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

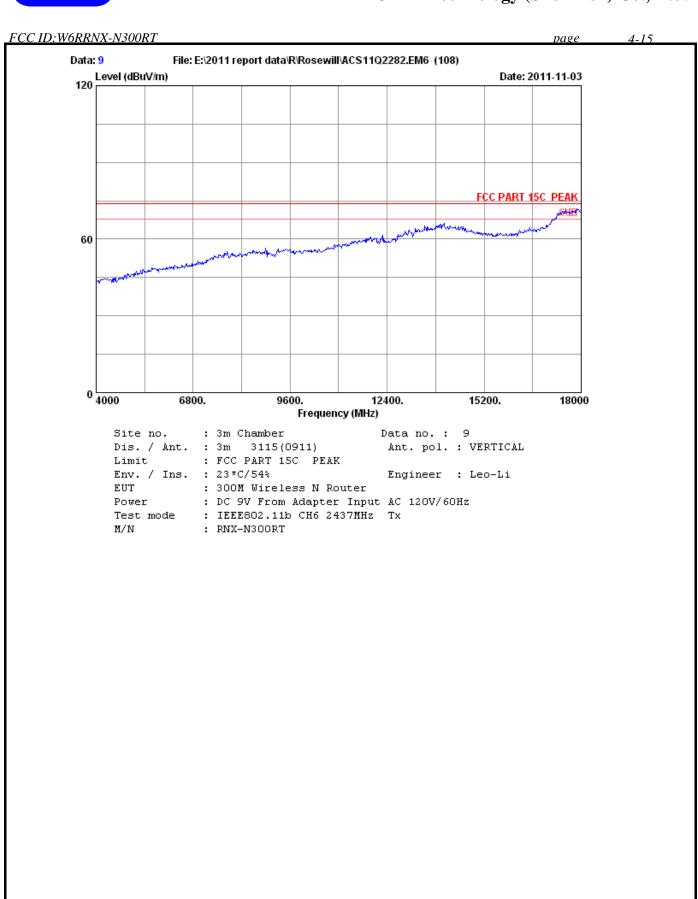
: DC 9V From Adapter Input AC 120V/60Hz Power

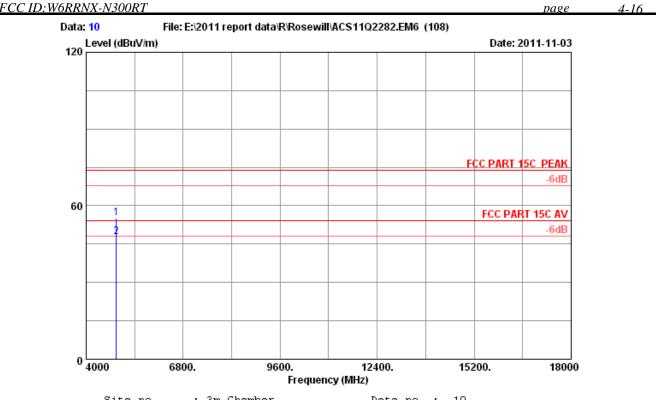
Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : RNX-N300RT

| | | Ant. | Cable | Amp. | | Emissi | on | | |
|---|---------|--------|-------|--------|---------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 4874.00 | 34.41 | 10.69 | 35.03 | 44.27 | 54.34 | 74.00 | 19.66 | Peak |
| 2 | 4874.00 | 34.41 | 10.69 | 35.03 | 36.10 | 46.17 | 54.00 | 7.83 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





: 3m Chamber Site no. Data no. : 10

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

: 300M Wireless N Router

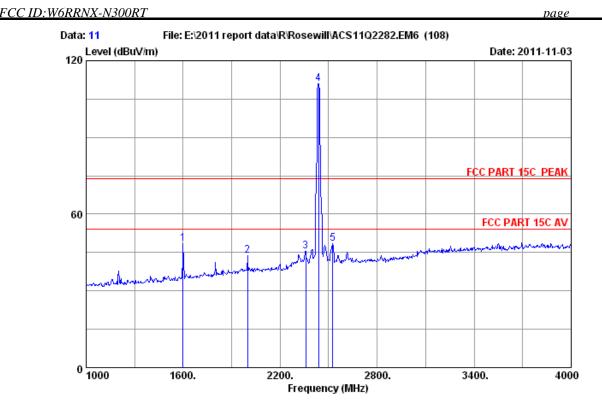
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

: RNX-N300RT

| | | Ant. | Cable | Amp. | | Emissi | on | | |
|---|---------|--------|-------|--------|---------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 4874.00 | 34.41 | 10.69 | 35.03 | 45.21 | 55.28 | 74.00 | 18.72 | Peak |
| 2 | 4874.00 | 34.41 | 10.69 | 35.03 | 37.58 | 47.65 | 54.00 | 6.35 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

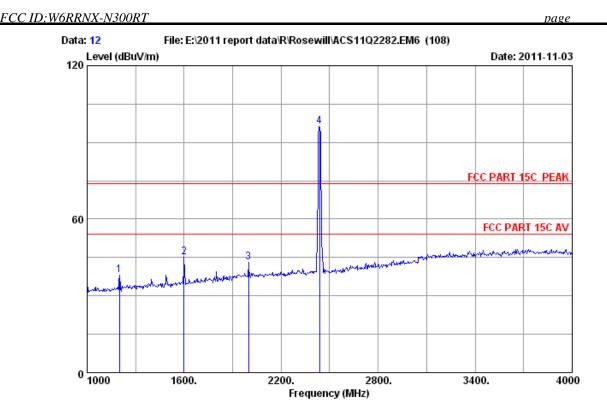
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|---------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m | n) (dB) | |
| | | | | | | |
| 1 | 1600.000 26.96 | 5.91 36.94 | 52.50 | 48.43 74.00 | 25.57 | Peak |
| 2 | 1999.000 29.20 | 6.63 36.70 | 44.62 | 43.75 74.00 | 30.25 | Peak |
| 3 | 2359.000 29.42 | 7.35 36.63 | 45.18 | 45.32 74.00 | 28.68 | Peak |
| 4 | 2437.000 29.47 | 7.46 36.61 | 110.78 | 111.10 74.00 | -37.10 | Peak |
| 5 | 2524.000 29.67 | 7.65 36.59 | 47.67 | 48.40 74.00 | 25.60 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

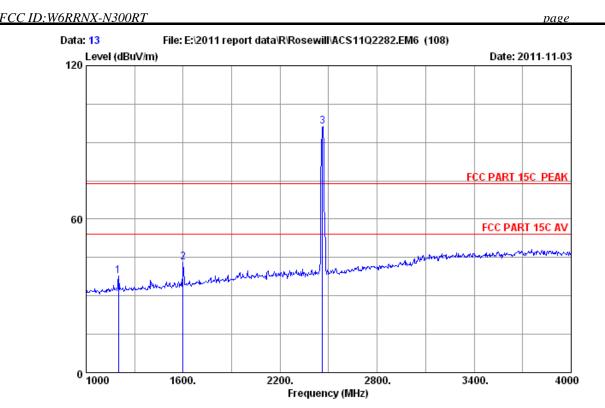
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH6 2437MHz Tx

M/N : RNX-N300RT

| 1 1201.000 25.81 5.16 37.54 44.70 38.13 74.00 35.87 Peak 2 1600.000 26.96 5.91 36.94 49.33 45.26 74.00 28.74 Peak 3 1999.000 29.20 6.63 36.70 43.84 42.97 74.00 31.03 Peak | | Freq. Factor | | _ | Emission Level Limit (dBuV/m) dBuV | _ | Remark |
|--|---|----------------------------------|--------------------------|----------------|--|----------------------|--------------|
| 4 2437.000 29.47 7.46 36.61 95.95 96.27 74.00 -22.27 Peak | 2 | 1600.000 26.96 1999.000 29.20 | 5.91 36.94 6.63 36.70 | 49.33 43.84 | 45.26 74. 42.97 74. | 00 28.74 00 31.03 | Peak Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



: 3m Chamber Site no. Data no. : 13

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

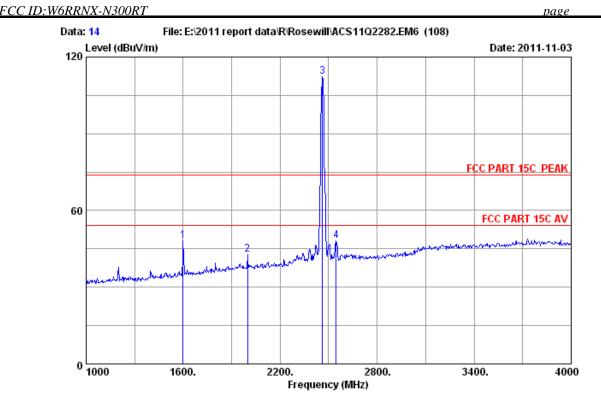
: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11b CH11 2462MHz Tx

: RNX-N300RT

| | Ant. | cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|---------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/r | n) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 44.26 | 37.69 74.00 | 36.31 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 47.24 | 43.17 74.00 | 30.83 | Peak |
| 3 | 2462.000 29.48 | 7.54 36.61 | 95.94 | 96.35 74.00 | -22.35 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 14

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

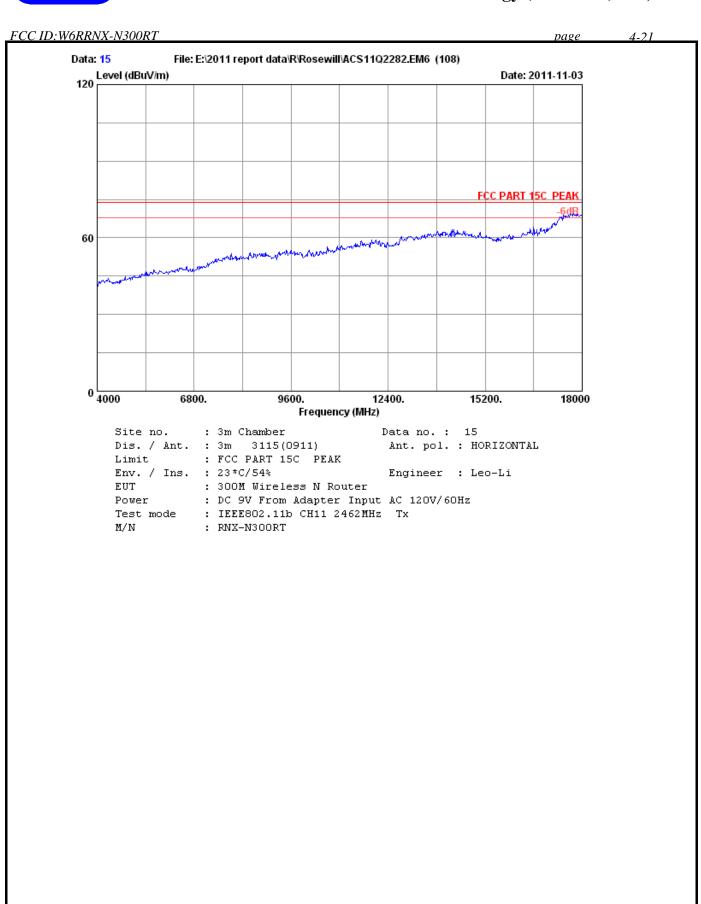
Power : DC 9V From Adapter Input AC 120V/60Hz

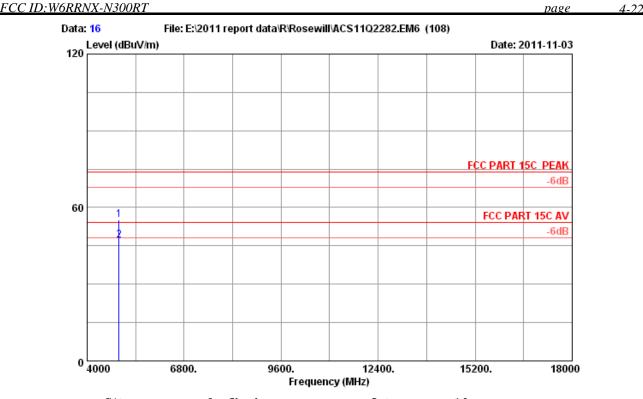
Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | | |
|---|----------------|-------------|---------|-----------------|--------|--------|--|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/n |) (dB) | | |
| | | | | | | | |
| 1 | 1600.000 26.96 | 5.91 36.94 | 52.09 | 48.02 74.00 | 25.98 | Peak | |
| 2 | 1999.000 29.20 | 6.63 36.70 | 43.65 | 42.78 74.00 | 31.22 | Peak | |
| 3 | 2462.000 29.48 | 7.54 36.61 | 111.75 | 112.16 74.00 | -38.16 | Peak | |
| 4 | 2545.000 29.75 | 7.69 36.59 | 47.19 | 48.04 74.00 | 25.96 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no.: 16

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

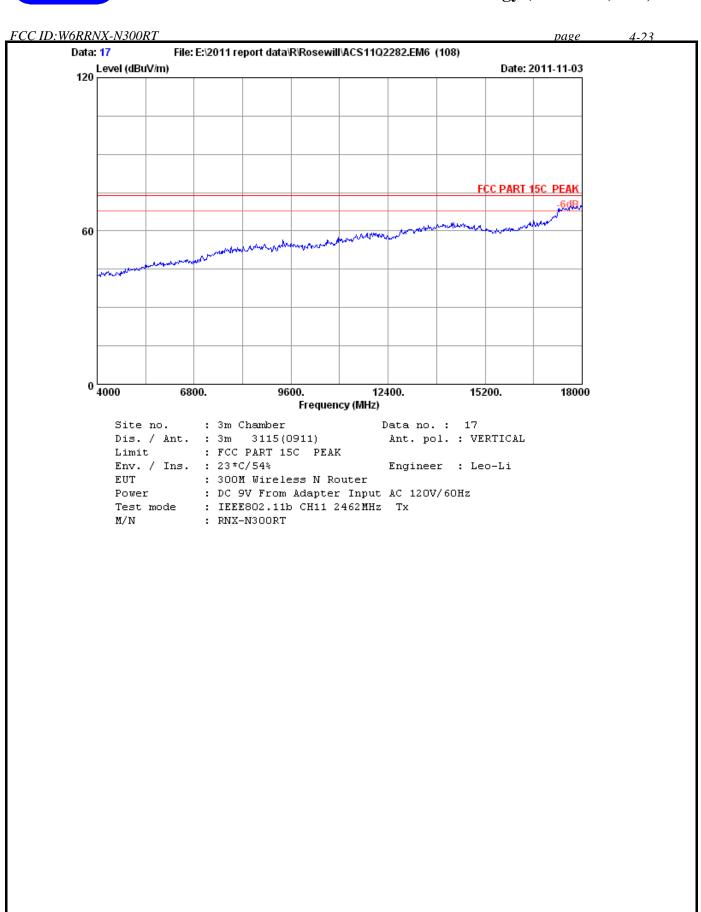
: DC 9V From Adapter Input AC 120V/60Hz Power

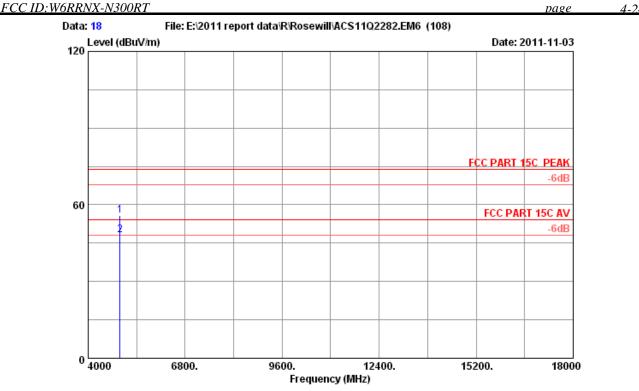
Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : RNX-N300RT

| | - | Ant. Factor (dB/m) | Cable loss (dB) | Reading (dBuV) | | | _ | Remark |
|---|----------------------|--------------------------|-----------------------|-----------------------|----------------|----------------|---------------|-----------------|
| _ | 4924.000 4924.000 | | | 44.97 36.85 | 55.24 47.12 | 74.00 54.00 | 18.76 6.88 | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 18

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

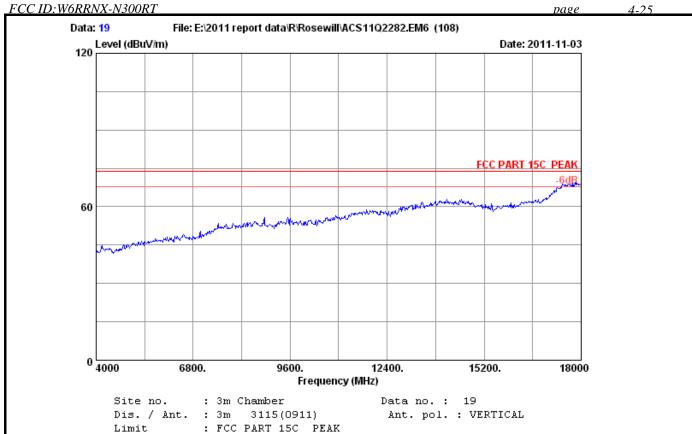
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. | | | Amp. | Emission | | | | |
|---|-----------------|--------|-------|--------|----------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| 1 | 4924.000 | 34.49 | 10.76 | 34.98 | 45.68 | 55.95 | 74.00 | 18.05 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.95 | 48.22 | 54.00 | 5.78 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

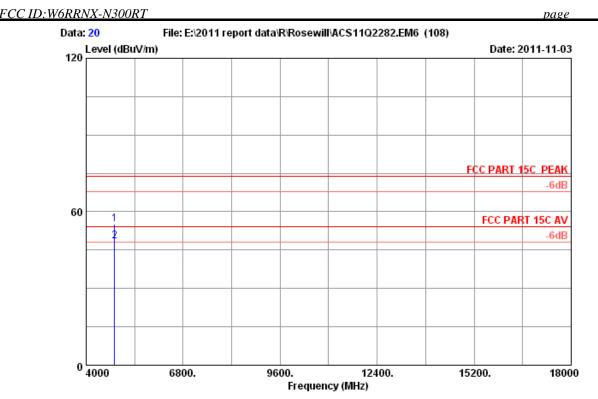


Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH1 2412MHz Tx M/N : RNX-N300RT



Site no. : 3m Chamber Data no. : 20

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

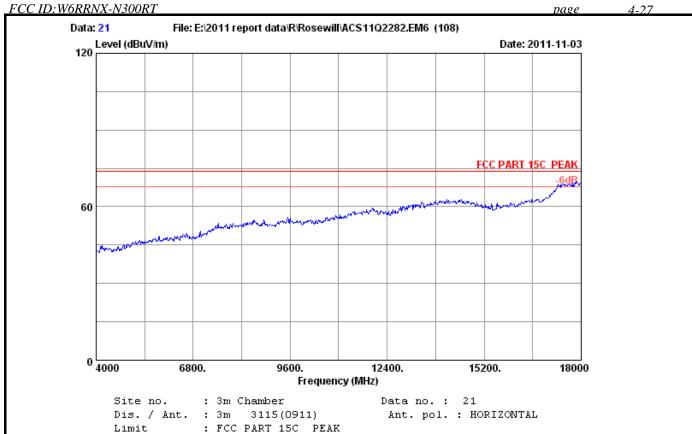
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. Emission | | | | | | | | |
|---|--------------------------|--------|-------|--------|---------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 4824.00 | 34.32 | 10.64 | 35.08 | 45.16 | 55.04 | 74.00 | 18.96 | Peak |
| 2 | 4824.00 | 34.32 | 10.64 | 35.08 | 38.42 | 48.30 | 54.00 | 5.70 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

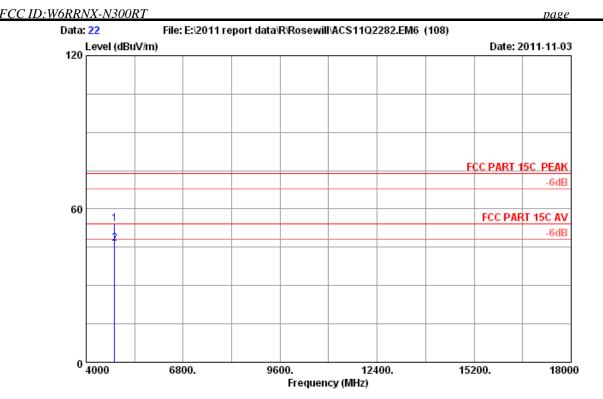


Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH1 2412MHz Tx M/N : RNX-N300RT



Site no. : 3m Chamber Data no.: 22

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

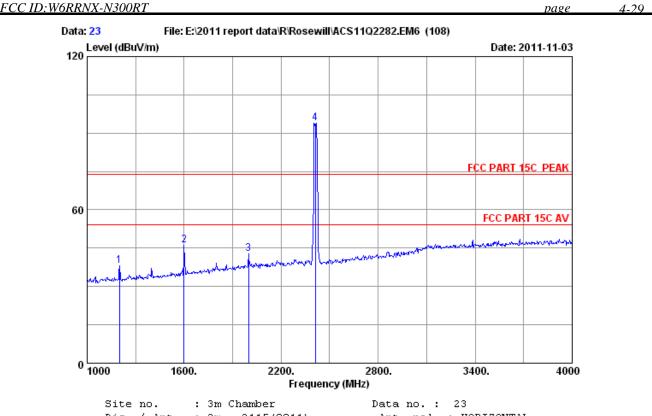
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

: RNX-N300RT M/N

| | | Ant. | Cable | Amp. | | Emiss: | ion | | |
|---|----------|---------|-------|--------|---------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 4824.000 | 0 34.32 | 10.64 | 35.08 | 44.16 | 54.04 | 74.00 | 19.96 | Peak |
| 2 | 4824.000 | 34.32 | 10.64 | 35.08 | 36.49 | 46.37 | 54.00 | 7.63 | Average |
| | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

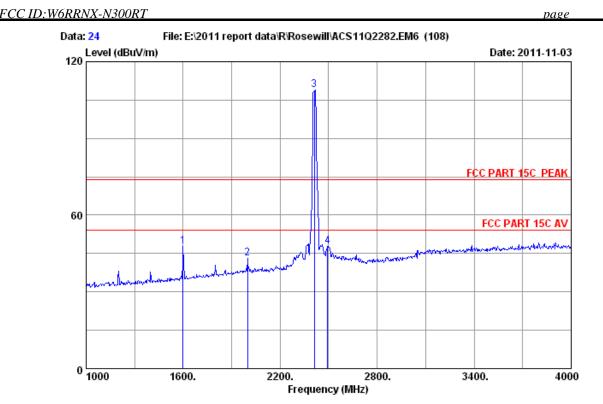
: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH1 2412MHz Tx

: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|------------|--------------|--------|
| | Freq. Factor | loss Factor | Reading | Level Li | mits Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) d | BuV/m) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 44.55 | 37.98 | 74.00 36.02 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 50.18 | 46.11 | 74.00 27.89 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 43.69 | 42.82 | 74.00 31.18 | Peak |
| 4 | 2412.000 29.45 | 7.43 36.62 | 93.76 | 94.02 | 74.00 -20.02 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

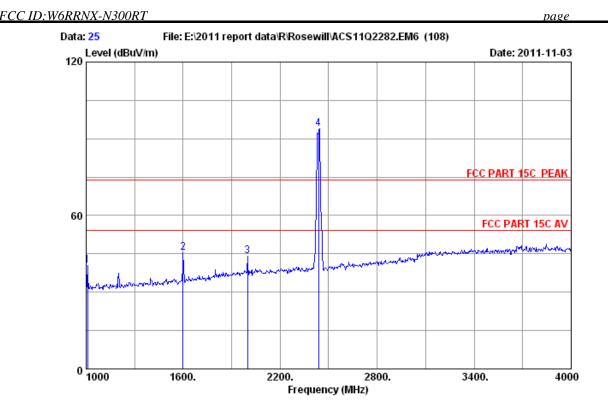
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable | Amp. | | Emiss | ion | | |
|---|----------------|-------|--------|---------|---------|-----------|--------|--------|
| | Freq. Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m |) dBuV/m) |) (dB) | |
| | | | | | | | | |
| 1 | 1600.000 26.96 | 5.91 | 36.94 | 51.89 | 47.82 | 74.00 | 26.18 | Peak |
| 2 | 1999.000 29.20 | 6.63 | 36.70 | 44.14 | 43.27 | 74.00 | 30.73 | Peak |
| 3 | 2412.000 29.45 | 7.43 | 36.62 | 108.57 | 108.83 | 74.00 | -34.83 | Peak |
| 4 | 2494.000 29.50 | 7.58 | 36.60 | 47.39 | 47.87 | 74.00 | 26.13 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

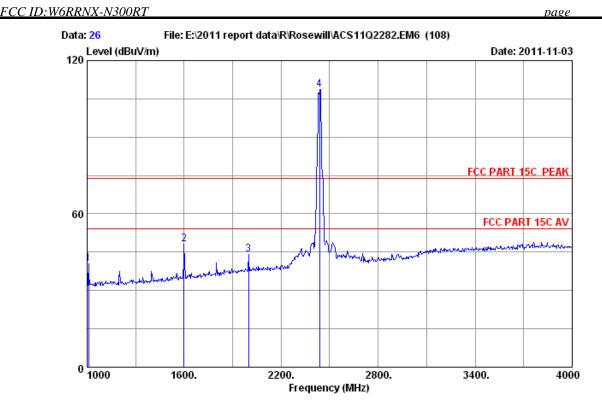
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH6 2437MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | | |
|---|----------------|-------------|---------|----------------|----------|--------|--|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/ | m) (dB) | | |
| | | | | | | | |
| 1 | 1009.000 25.43 | 4.78 37.90 | 48.23 | 40.54 74.0 | 33.46 | Peak | |
| 2 | 1600.000 26.96 | 5.91 36.94 | 49.42 | 45.35 74.0 | 28.65 | Peak | |
| 3 | 1999.000 29.20 | 6.63 36.70 | 44.93 | 44.06 74.0 | 29.94 | Peak | |
| 4 | 2437.000 29.47 | 7.46 36.61 | 93.44 | 93.76 74.0 | 0 -19.76 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

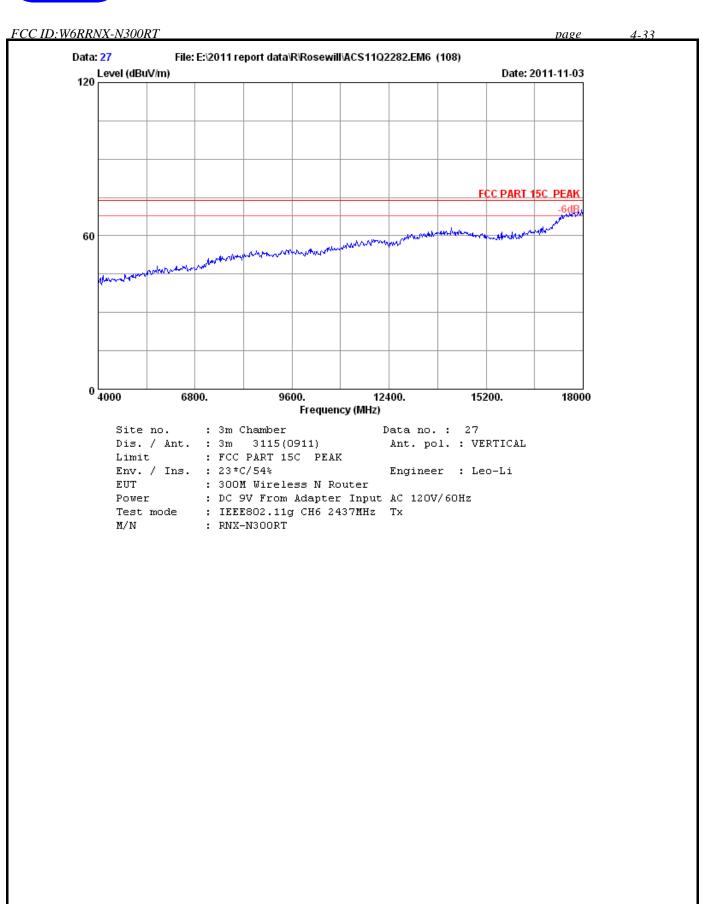
Power : DC 9V From Adapter Input AC 120V/60Hz

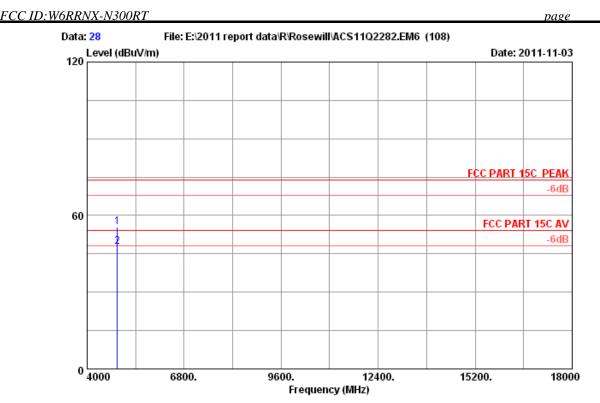
Test mode : IEEE802.11g CH6 2437MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|----------------|----------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/ | m) (dB) | |
| | | | | | | |
| 1 | 1009.000 25.43 | 4.78 37.90 | 48.23 | 40.54 74.0 | 0 33.46 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 52.06 | 47.99 74.0 | 0 26.01 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 44.93 | 44.06 74.0 | 0 29.94 | Peak |
| 4 | 2437.000 29.47 | 7.46 36.61 | 108.26 | 108.58 74.0 | 0 -34.58 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no.: 28

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

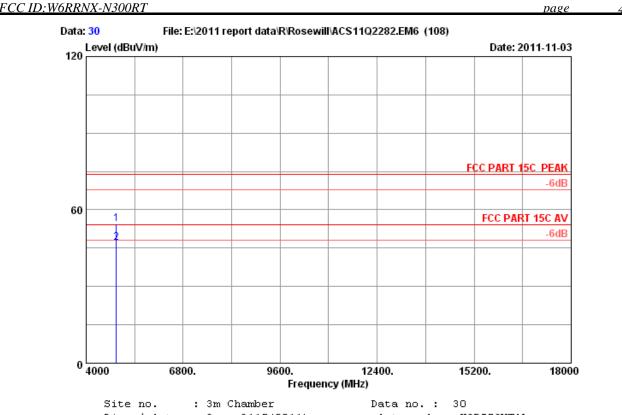
Test mode : IEEE802.11g CH6 2437MHz Tx

M/N : RNX-N300RT

| | Freq. (MHz) | Factor | Factor | Reading (dBuV) | | | _ | Remark |
|---|----------------------|--------|--------|-------------------|----------------|----------------|---------------|-----------------|
| _ | 4874.000 4874.000 | | | 45.32 37.85 | 55.39 47.92 | 74.00 54.00 | 18.61 6.08 | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

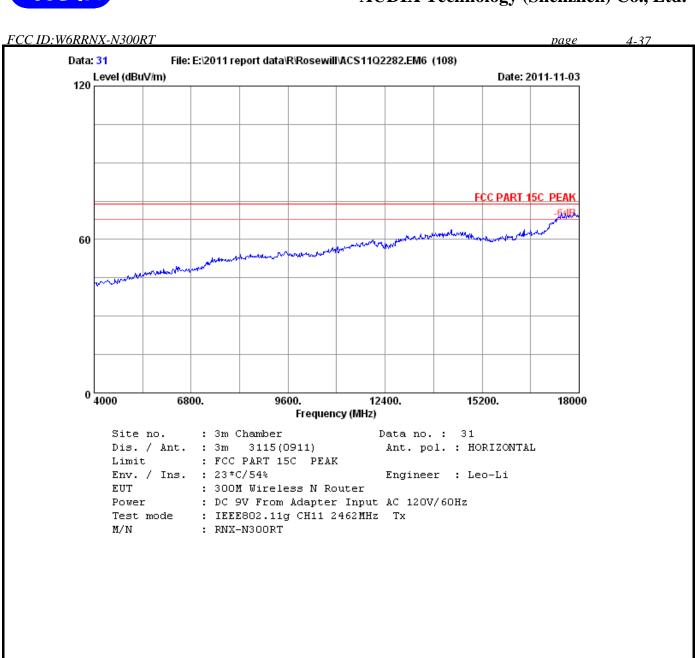
Power : DC 9V From Adapter Input AC 120V/60Hz

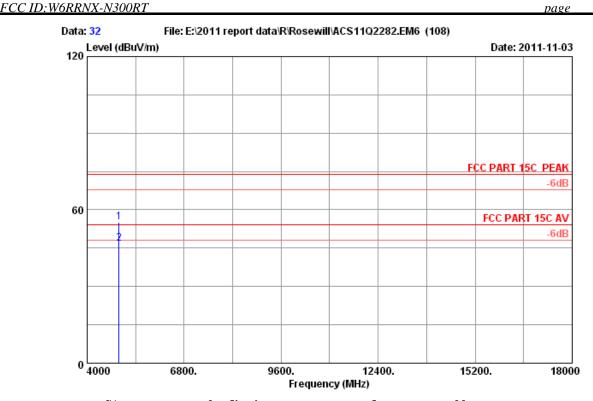
Test mode : IEEE802.11g CH6 2437MHz Tx

M/N : RNX-N300RT

| | | Ant. | Cable | Amp. | | Emissi | .on | | |
|---|----------|--------|-------|--------|---------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 44.50 | 54.57 | 74.00 | 19.43 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 36.98 | 47.05 | 54.00 | 6.95 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 32

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

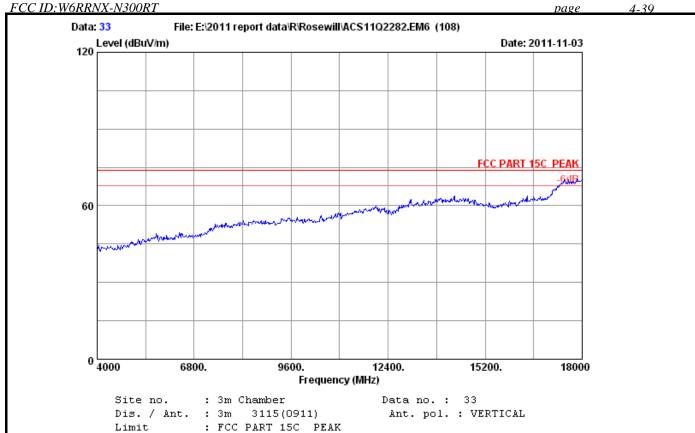
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. | | Amp. | Emission | | | | |
|---|-----------------|-------|--------|----------|----------|---------|--------|---------|
| | Freq. Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| 1 | 4924.000 34.49 | 10.76 | 34.98 | 44.95 | 55.22 | 74.00 | 18.78 | Peak |
| 2 | 4924.000 34.49 | 10.76 | 34.98 | 36.47 | 46.74 | 54.00 | 7.26 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



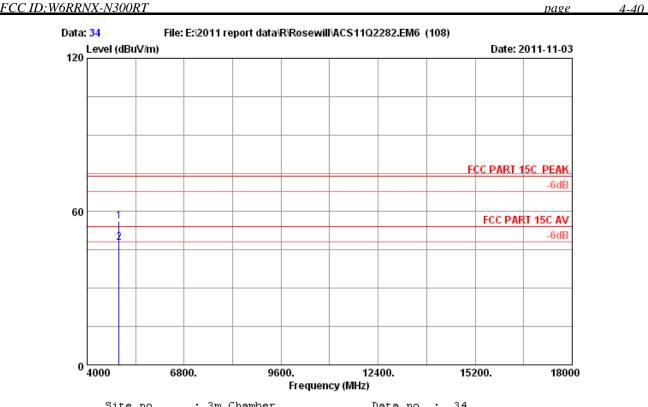
Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH11 2462MHz Tx M/N : RNX-N300RT



: 3m Chamber Data no.: 34 Site no.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

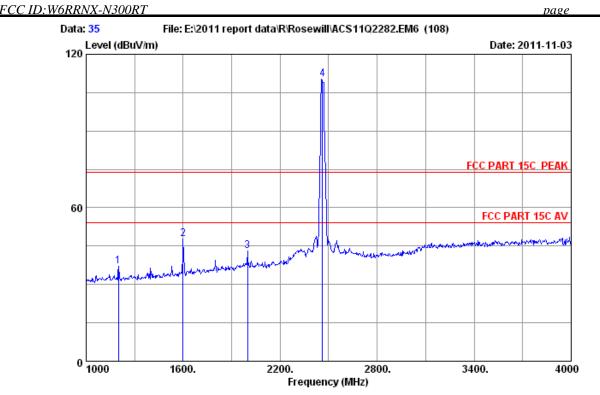
Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : RNX-N300RT

| | Ant. Freq. Facto (MHz) (dB/n | Factor | _ | | Limits | _ | Remark | |
|---|------------------------------------|--------|----------------|----------------|--------|---------------|-----------------|--|
| _ | 4924.000 34.4 4924.000 34.4 | | 45.97 37.42 | 56.24 47.69 | | 17.76 6.31 | Peak Average | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 35

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

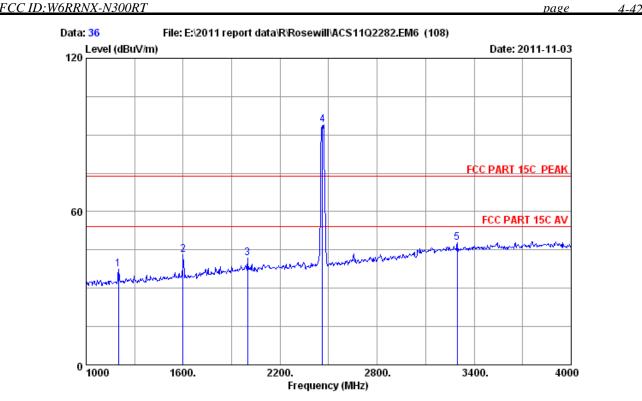
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : RNX-N300RT

| | Freq. Factor | loss Factor (dB) (dB) | _ | Lmission Level Limits (dBuV/m) dBuV/m | _ | Remark | |
|---|----------------|--------------------------|--------|---|--------|--------|--|
| 1 | 1201.000 25.81 | 5.16 37.54 | 43.56 | 36.99 74.00 | 37.01 | Peak | |
| 2 | 1600.000 26.96 | 5.91 36.94 | 52.03 | 47.96 74.00 | 26.04 | Peak | |
| 3 | 1999.000 29.20 | 6.63 36.70 | 43.85 | 42.98 74.00 | 31.02 | Peak | |
| 4 | 2462.000 29.48 | 7.54 36.61 | 109.79 | 110.20 74.00 | -36.20 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



: 3m Chamber Data no. : 36 Site no.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

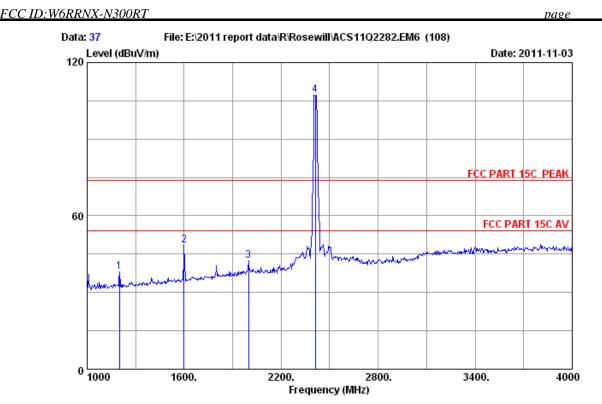
Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH11 2462MHz Tx
M/N : RNX-N300RT

| | Ant. | Cable 1 | Amp. | Emission | | |
|---|----------------|---------|---------------|---------------|-----------|--------|
| | Freq. Factor | loss Fa | actor Reading | Level Limit | s Margin | Remark |
| | (MHz) (dB/m) | (dB) (c | iB) (dBuV) | (dBuV/m) dBuV | /m) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37 | 7.54 43.85 | 37.28 74. | 00 36.72 | Peak |
| 2 | 1600.000 26.96 | 5.91 36 | 5.94 47.33 | 43.26 74. | 00 30.74 | Peak |
| 3 | 1999.000 29.20 | 6.63 36 | 5.70 42.75 | 41.88 74. | 00 32.12 | Peak |
| 4 | 2462.000 29.48 | 7.54 36 | 5.61 93.46 | 93.87 74. | 00 -19.87 | Peak |
| 5 | 3295.000 32.76 | 8.88 36 | 5.20 42.45 | 47.89 74. | 00 26.11 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 37

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

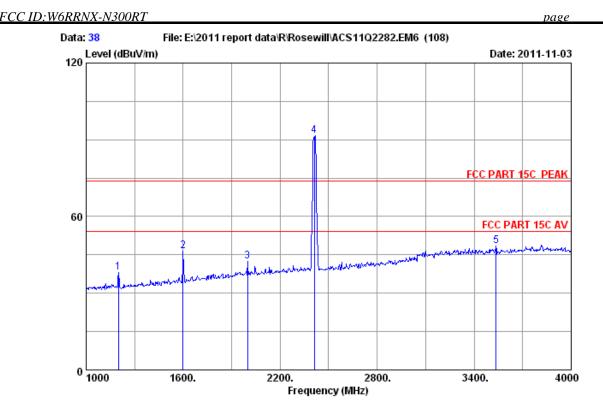
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. | | | Emission | | |
|---|-----------------|-------------|---------|-------------|-------------|--------|
| | Freq. Factor | loss Factor | Reading | Level Lim | its Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dB | uV/m) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 44.59 | 38.02 7 | 4.00 35.98 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 52.53 | 48.46 7 | 4.00 25.54 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 43.19 | 42.32 7 | 4.00 31.68 | Peak |
| 4 | 2412.000 29.45 | 7.43 36.62 | 107.05 | 107.31 7 | 4.00 -33.31 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 38

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

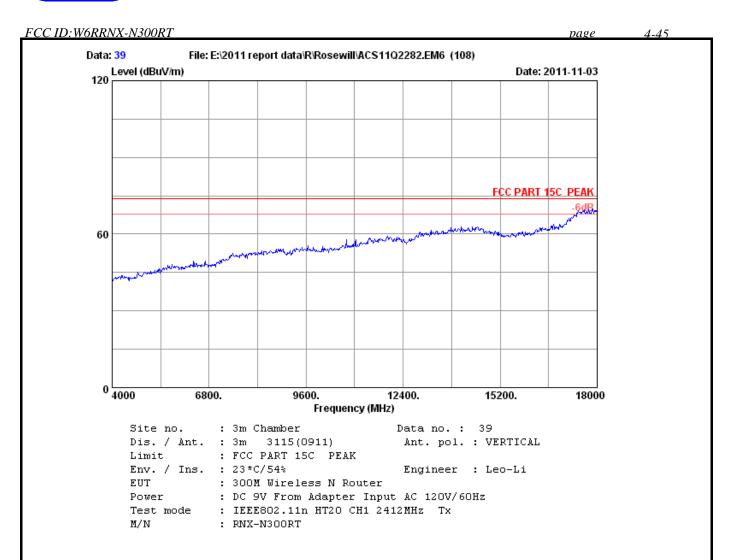
EUT : 300M Wireless N Router

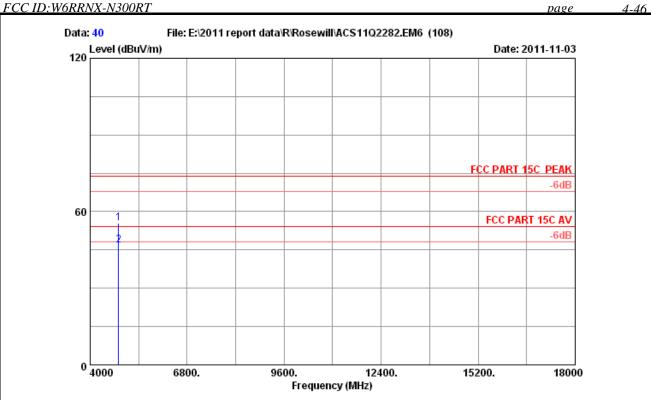
: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | capie Amp. | | Emission | | | |
|---|----------------|-------------|---------|----------------|----------|--------|--|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/ | m) (dB) | | |
| | ,, ,,, | ,, ,, | , , | ,,, | | | |
| _ | 1001 000 05 01 | 5 46 OF 54 | 44 60 | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 44.69 | 38.12 74.0 | 0 35.88 | Peak | |
| 2 | 1600.000 26.96 | 5.91 36.94 | 50.68 | 46.61 74.0 | 0 27.39 | Peak | |
| 3 | 1999.000 29.20 | 6.63 36.70 | 43.24 | 42.37 74.0 | 0 31.63 | Peak | |
| 4 | 2412.000 29.45 | 7.43 36.62 | 91.37 | 91.63 74.0 | 0 -17.63 | Peak | |
| 5 | 3535.000 33.35 | 9.16 35.98 | 41.88 | 48.41 74.0 | 0 25.59 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





: 3m Chamber Data no.: 40 Site no.

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH1 2412W

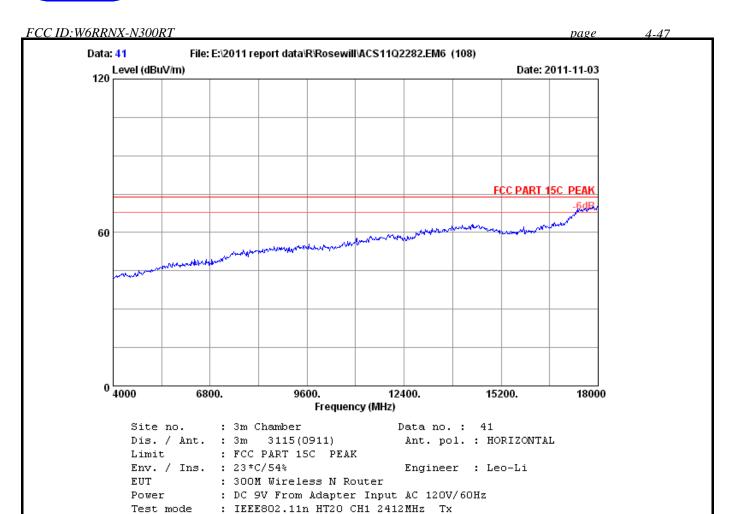
: RNX-N300RT M/N

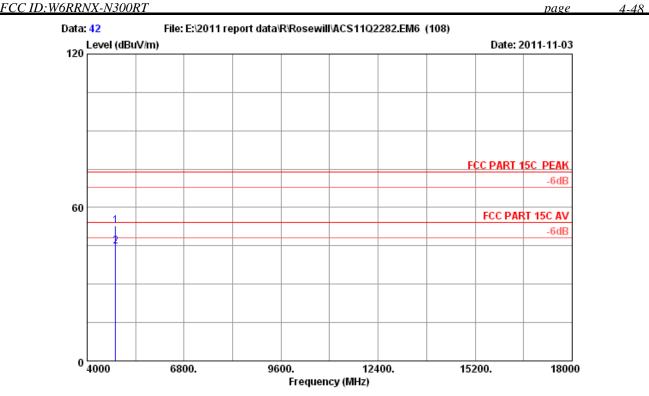
| | - | Factor | Cable loss (dB) | Factor | Reading (dBuV) | | Limits | _ | Remark |
|---|--------------------|--------|-----------------------|--------|-------------------|----------------|--------|---------------|-----------------|
| _ | 4824.00 4824.00 | | | | 45.76 36.85 | 55.64 46.73 | | 18.36 7.27 | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

M/N

: RNX-N300RT





Site no. : 3m Chamber Data no.: 42

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : RNX-N300RT

| | | Ant. | Cable | Amp. | Emission | | | | |
|---|---------|--------|-------|--------|----------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 4824.00 | 34.32 | 10.64 | 35.08 | 42.91 | 52.79 | 74.00 | 21.21 | Peak |
| 2 | 4824.00 | 34.32 | 10.64 | 35.08 | 34.99 | 44.87 | 54.00 | 9.13 | Average |

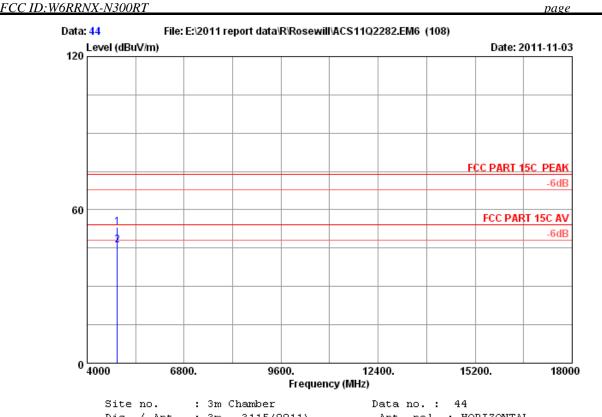
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

M/N

: RNX-N300RT



4-50



Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

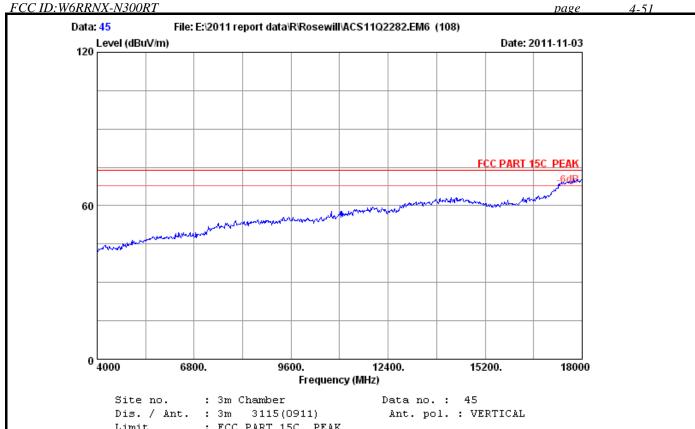
: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT20 CH6 2437MHz Tx

: RNX-N300RT

| | A | Ant. Cable Amp. | | Amp. | E | | | | |
|---|------------|-----------------|---------|-----------|----------|-----------|----------|-------------|--|
| | Freq. Fa | ctor 1 | oss Fa | actor Res | ding Lev | el Limi | ts Marg | in Remark | |
| | (MHz) (d | lB/m) (| dB) (d | dB) (dE | BuV) (dB | uV/m) dBu | V/m) (dB |) | |
| - | 4874.000 3 | 4 41 10 | | | .04 53 | .11 74 | .00 20. | 89 Peak | |
| _ | 4074.000 3 | 7.71 10 | 1.05 3. | J.OJ 43 | .04 33 | .11 (7 | .00 20. | 09 FCak | |
| 2 | 4874.000 3 | 4.41 10 | 1.69 3 | 5.03 36 | 5.10 46 | .17 54 | .00 7. | 83 Average | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



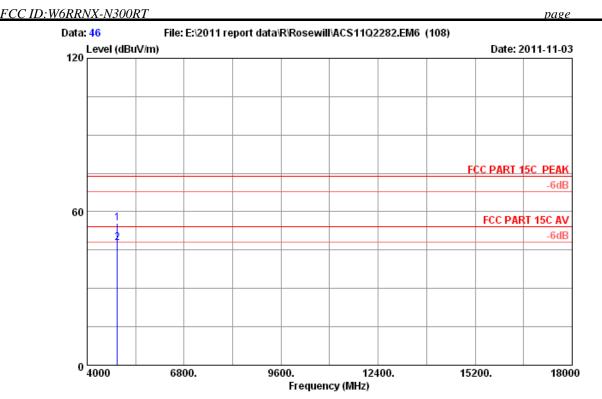
: FCC PART 15C PEAK Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11n HT20 CH6 2437MHz Tx M/N : RNX-N300RT



Site no. : 3m Chamber Data no. : 46

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

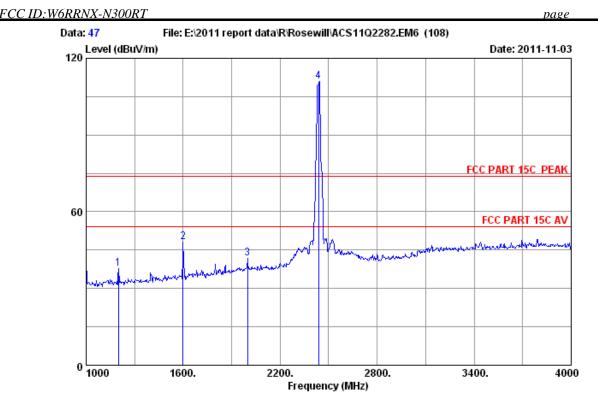
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH6 2437MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. | | | Amp. | Emission | | | | |
|---|-----------------|--------|----------|----------|----------|----------|---------|-------|---------|
| | - | | | | Reading | | | _ | Remark |
| | (MHZ) | (dB/m) | (dB) | (dB) | (dBuV) | (aBuv/m) | dBuV/m) | (aB) | |
| 1 | 4874.000 | 34.41 | 10.69 | 35.03 | 45.41 | 55.48 | 74.00 | 18.52 | Peak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.86 | 47.93 | 54.00 | 6.07 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 47

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

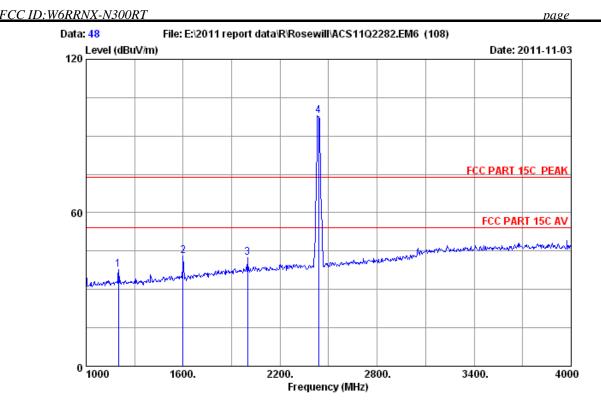
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH6 2437MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|----------------|-----------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limit: | s Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV, | 'm) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 44.46 | 37.89 74.0 | 00 36.11 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 52.13 | 48.06 74.0 | 00 25.94 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 42.80 | 41.93 74.0 | 00 32.07 | Peak |
| 4 | 2437.000 29.47 | 7.46 36.61 | 110.55 | 110.87 74.0 | 00 -36.87 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 48

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

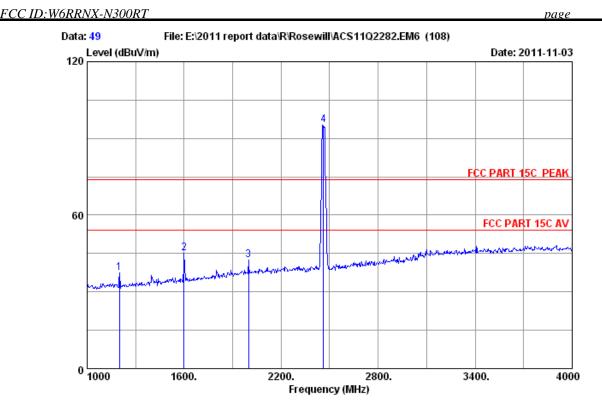
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH6 2437MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. Emission | | | | | |
|---|--------------------------|-------------|---------|-----------------|---------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/n | n) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 44.50 | 37.93 74.00 | 36.07 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 47.25 | 43.18 74.00 | 30.82 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 43.37 | 42.50 74.00 | 31.50 | Peak |
| 4 | 2437.000 29.47 | 7.46 36.61 | 97.49 | 97.81 74.00 | -23.81 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 49

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

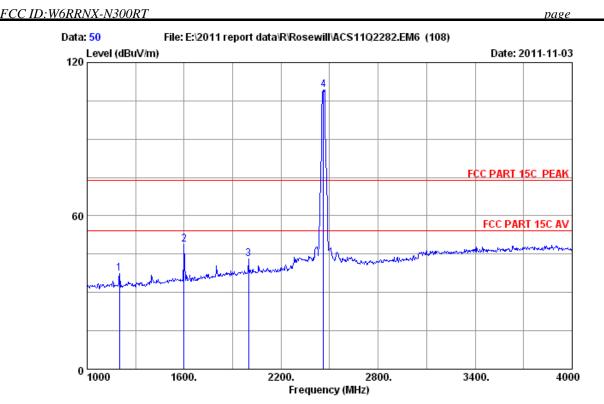
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable | Amp. | | Emiss | ion | | |
|---|----------------|-------|--------|---------|---------|----------|--------|--------|
| | Freq. Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m |) dBuV/m | (dB) | |
| | | | | | | | | |
| 1 | 1201.000 25.81 | 5.16 | 37.54 | 44.02 | 37.45 | 74.00 | 36.55 | Peak |
| 2 | 1600.000 26.96 | 5.91 | 36.94 | 49.21 | 45.14 | 74.00 | 28.86 | Peak |
| 3 | 1999.000 29.20 | 6.63 | 36.70 | 43.38 | 42.51 | 74.00 | 31.49 | Peak |
| 4 | 2462.000 29.48 | 7.54 | 36.61 | 94.84 | 95.25 | 74.00 | -21.25 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 50
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

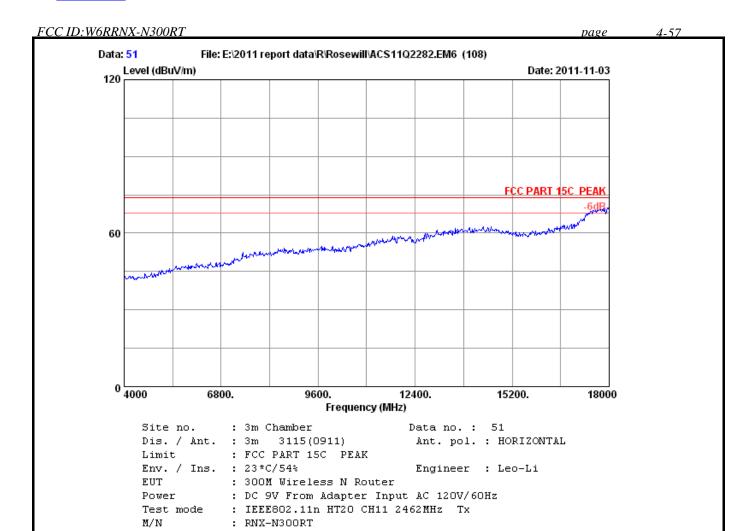
EUT : 300M Wireless N Router

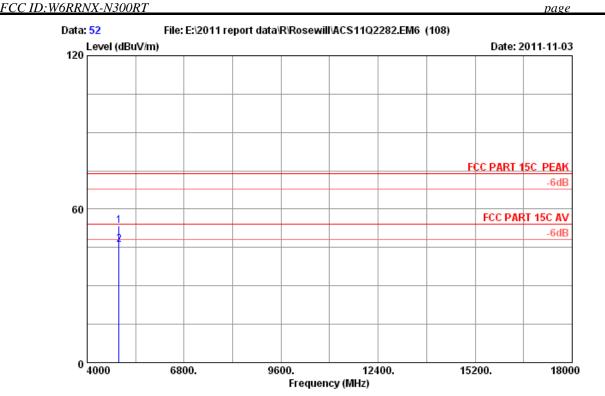
Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. | | | Emission | | | | |
|---|-----------------|------------|-----------|-------------|-------------|--------|--|--|
| | Freq. Factor | loss Facto | r Reading | Level Lim | its Margin | Remark | | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dB | uV/m) (dB) | | | |
| | | | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 44.02 | 37.45 7 | 4.00 36.55 | Peak | | |
| 2 | 1600.000 26.96 | 5.91 36.94 | 52.91 | 48.84 7 | 4.00 25.16 | Peak | | |
| 3 | 1999.000 29.20 | 6.63 36.70 | 43.90 | 43.03 7 | 4.00 30.97 | Peak | | |
| 4 | 2462.000 29.48 | 7.54 36.61 | 108.89 | 109.30 7 | 4.00 -35.30 | Peak | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 52

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

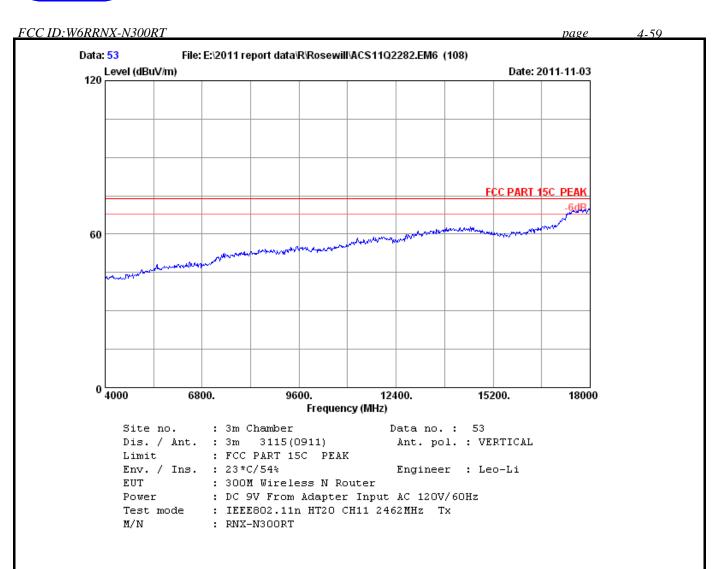
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

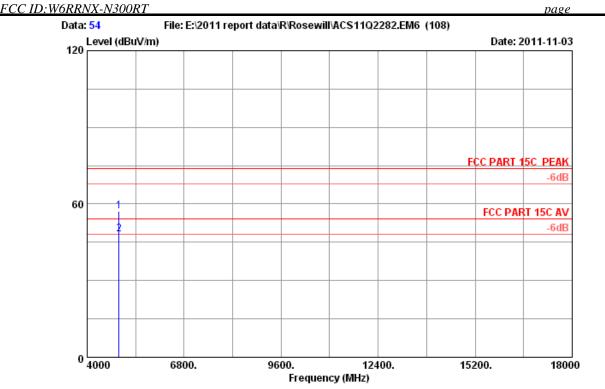
M/N : RNX-N300RT

| | Ant. Cable Amp. | | | Amp. | Emission | | | | |
|---|-----------------|--------|------|--------|----------------|----------------|----------------|--------|-----------------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| _ | 4924.000 | | | | 43.11 35.78 | 53.38 46.05 | 74.00 54.00 | 20.62 | Peak Average |
| _ | | | 10 | 01.50 | 000 | | 01.00 | | m.crage |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



4-60



Site no. : 3m Chamber Data no. : 54

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

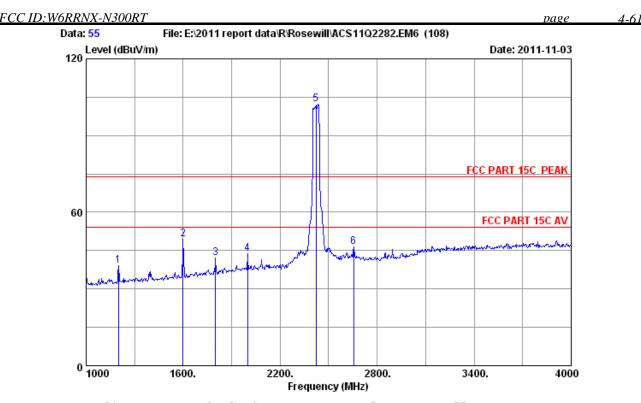
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : RNX-N300RT

| | | Ant. | Cable | Amp. | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 4924.000 | 34.49 | 10.76 | 34.98 | 46.89 | 57.16 | 74.00 | 16.84 | Peak |
| 2 | 4924.000 | 34.49 | 10.76 | 34.98 | 37.86 | 48.13 | 54.00 | 5.87 | Average |
| | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



: 3m Chamber Site no. Data no.: 55

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Engineer : Leo-Li

: FCC PART 15C PEAK

Env. / Ins. : 23*C/54%

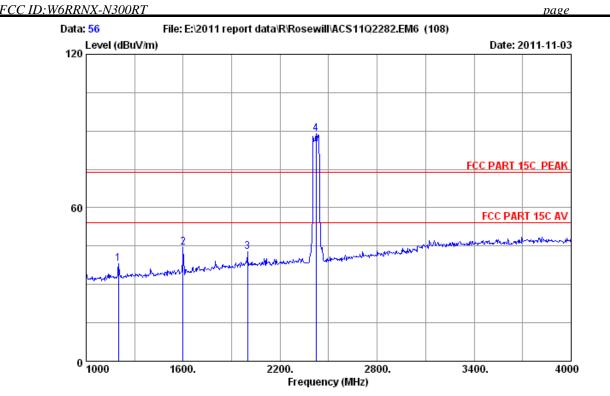
EUT

: 300M Wireless N Router : DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

: RNX-N300RT

| | Ant. | Cable Amp. | | | | | |
|---|----------------|-------------|---------|-----------------|---------|--------|---|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m | n) (dB) | | |
| | | | | | | | - |
| 1 | 1201.000 25.81 | 5.16 37.54 | 45.78 | 39.21 74.00 | 34.79 | Peak | |
| 2 | 1600.000 26.96 | 5.91 36.94 | 53.58 | 49.51 74.0 | 24.49 | Peak | |
| 3 | 1801.000 28.08 | 6.29 36.83 | 44.41 | 41.95 74.0 | 32.05 | Peak | |
| 4 | 1999.000 29.20 | 6.63 36.70 | 44.73 | 43.86 74.0 | 30.14 | Peak | |
| 5 | 2422.000 29.46 | 7.46 36.61 | 101.92 | 102.23 74.00 | -28.23 | Peak | |
| 6 | 2656.000 30.25 | 7.88 36.57 | 44.79 | 46.35 74.00 | 27.65 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 56

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

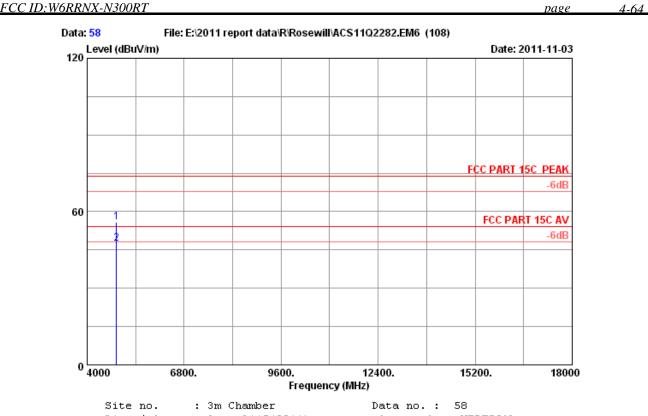
Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

M/N : RNX-N300RT

| | - | | | Factor | Reading (dBuV) | Level (dBuV/m) | Limits | _ | Remark | |
|---|----------|-------|------|--------|-------------------|-------------------|--------|--------|--------|--|
| 1 | 1201.000 | 25.81 | 5.16 | 37.54 | 44.81 | 38.24 | 74.00 | 35.76 | Peak | |
| 2 | 1600.000 | 26.96 | 5.91 | 36.94 | 48.38 | 44.31 | 74.00 | 29.69 | Peak | |
| 3 | 1999.000 | 29.20 | 6.63 | 36.70 | 43.57 | 42.70 | 74.00 | 31.30 | Peak | |
| 4 | 2422.000 | 29.46 | 7.46 | 36.61 | 88.46 | 88.77 | 74.00 | -14.77 | Peak | |
| | | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

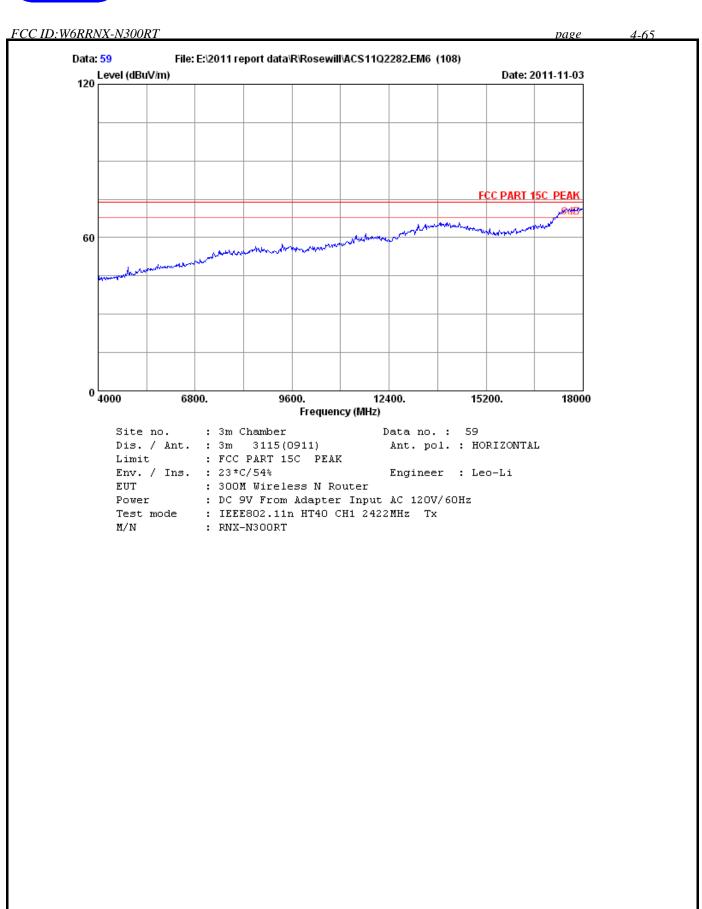
Env. / Ins. : 23*C/54% Engineer : Leo-Li

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH1 2422WW

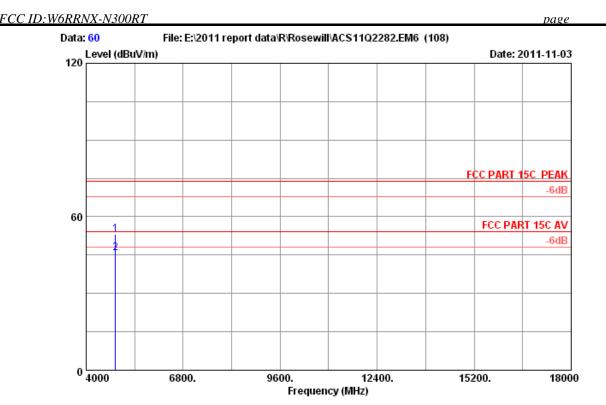
: RNX-N300RT M/N

| | Ant. Freq. Facto (MHz) (dB/r | Factor | Reading (dBuV) | | Limits | _ | Remark |
|---|------------------------------------|--------|-------------------|----------------|--------|---------------|-----------------|
| _ | 4844.000 34.3 4844.000 34.3 | | 45.80 37.47 | 55.77 47.44 | | 18.23 6.56 | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



4-66



Site no. : 3m Chamber Data no. : 60

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

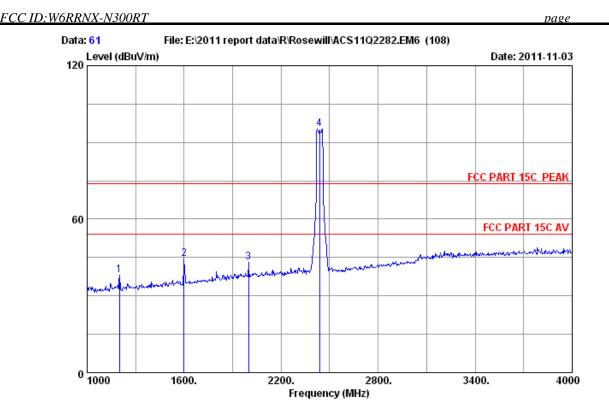
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

M/N : RNX-N300RT

| | | Ant. | Cable | Amp. | Emission | | | | |
|---|----------|--------|-------|--------|----------|----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| | | | | | | | | | |
| 1 | 4844.000 | 34.35 | 10.67 | 35.05 | 43.04 | 53.01 | 74.00 | 20.99 | Peak |
| 2 | 4844.000 | 34.35 | 10.67 | 35.05 | 35.78 | 45.75 | 54.00 | 8.25 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 61

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

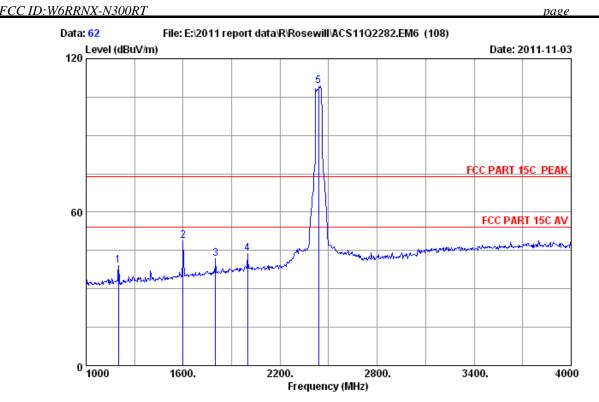
Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable | Amp. | Emission | | | | |
|---|----------------|-------|--------|----------|---------|----------|--------|--------|
| | Freq. Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m |) dBuV/m | (dB) | |
| | | | | | | | | |
| 1 | 1201.000 25.81 | 5.16 | 37.54 | 44.72 | 38.15 | 74.00 | 35.85 | Peak |
| 2 | 1600.000 26.96 | 5.91 | 36.94 | 48.48 | 44.41 | 74.00 | 29.59 | Peak |
| 3 | 1999.000 29.20 | 6.63 | 36.70 | 43.94 | 43.07 | 74.00 | 30.93 | Peak |
| 4 | 2437.000 29.47 | 7.46 | 36.61 | 95.05 | 95.37 | 74.00 | -21.37 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

4-68



Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

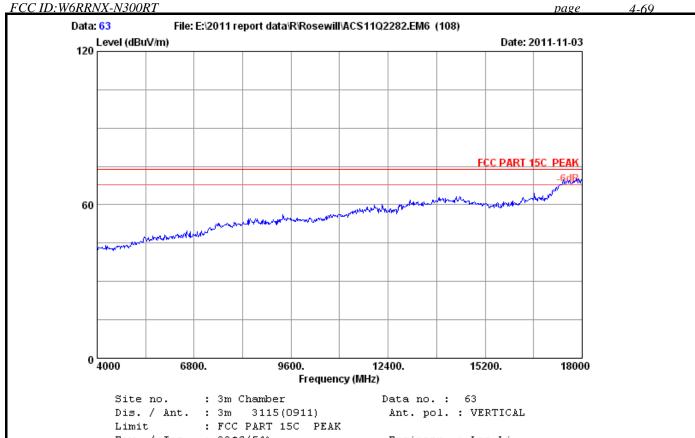
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | | | |
|---|----------------|-------------|---------|----------------|----------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/ | m) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 45.68 | 39.11 74.0 | 0 34.89 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 52.78 | 48.71 74.0 | 0 25.29 | Peak |
| 3 | 1801.000 28.08 | 6.29 36.83 | 44.20 | 41.74 74.0 | 0 32.26 | Peak |
| 4 | 1999.000 29.20 | 6.63 36.70 | 44.61 | 43.74 74.0 | 0 30.26 | Peak |
| 5 | 2437.000 29.47 | 7.46 36.61 | 108.98 | 109.30 74.0 | 0 -35.30 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



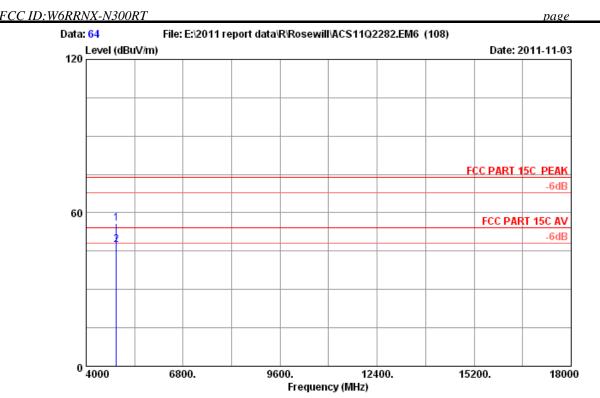
Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

: IEEE802.11n HT40 CH4 2437MHz Tx : RNX-N300RT Test mode

M/N



Site no. : 3m Chamber Data no. : 64

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

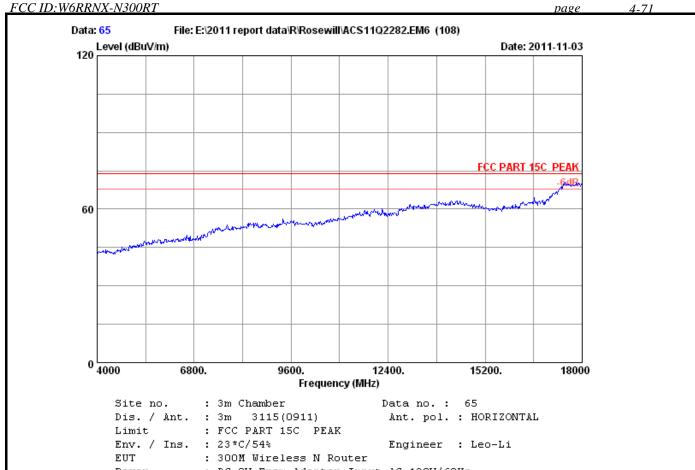
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : RNX-N300RT

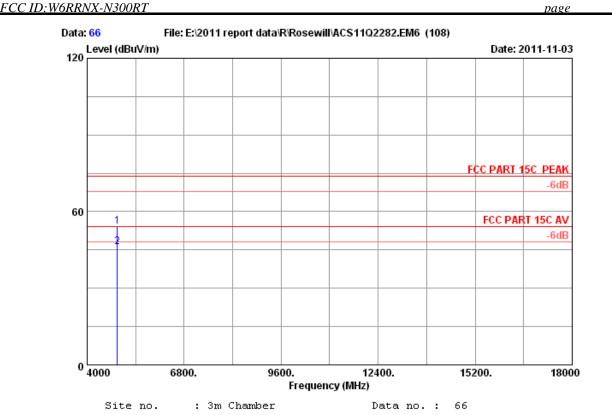
| | Ant. Cable Amp. | | | Amp. | Emission | | | | |
|----|-----------------|---------|-------|--------|----------|-----------|---------|--------|---------|
| | Freq. | Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) | (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | |
| 4 | 4874.000 | | 10 60 | 25 02 | 45.86 | 55.93 | 74 00 | 18.07 | Peak |
| т. | 4074.000 |))4.41 | 10.09 | 33.03 | 43.00 | 55.95 | 74.00 | 10.07 | reak |
| 2 | 4874.000 | 34.41 | 10.69 | 35.03 | 37.49 | 47.56 | 54.00 | 6.44 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx

M/N : RNX-N300RT



Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

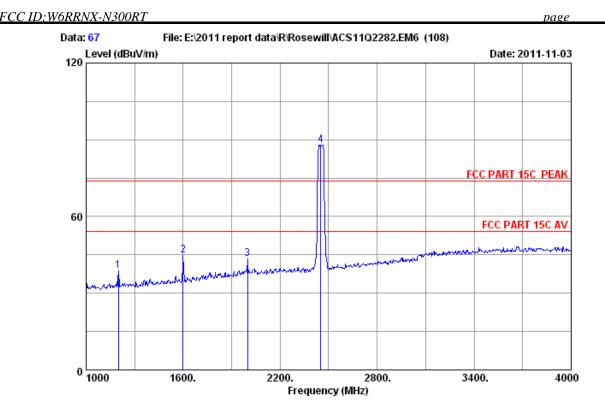
Env. / Ins. : 23*C/54% Engineer : Leo-Li

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH4 2422W

: RNX-N300RT M/N

| | • | Factor | Cable loss (dB) | Factor | Reading (dBuV) | | | _ | Remark |
|---|----------------------|--------|-----------------------|--------|-------------------|----------------|----------------|---------------|-----------------|
| _ | 4874.000 4874.000 | | | | 43.93 36.07 | 54.00 46.14 | 74.00 54.00 | 20.00 7.86 | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 67

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

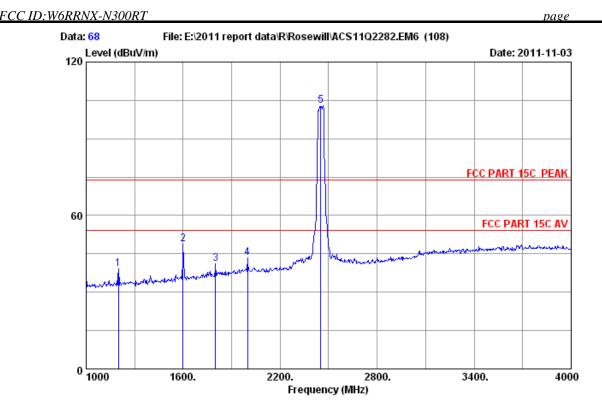
EUT : 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | | | |
|---|----------------|-------------|---------|-----------------|--------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m |) (dB) | |
| | | | | | | |
| 1 | 1201.000 25.81 | 5.16 37.54 | 45.23 | 38.66 74.00 | 35.34 | Peak |
| 2 | 1600.000 26.96 | 5.91 36.94 | 48.86 | 44.79 74.00 | 29.21 | Peak |
| 3 | 1999.000 29.20 | 6.63 36.70 | 44.33 | 43.46 74.00 | 30.54 | Peak |
| 4 | 2452.000 29.47 | 7.50 36.61 | 87.70 | 88.06 74.00 | -14.06 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 68

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

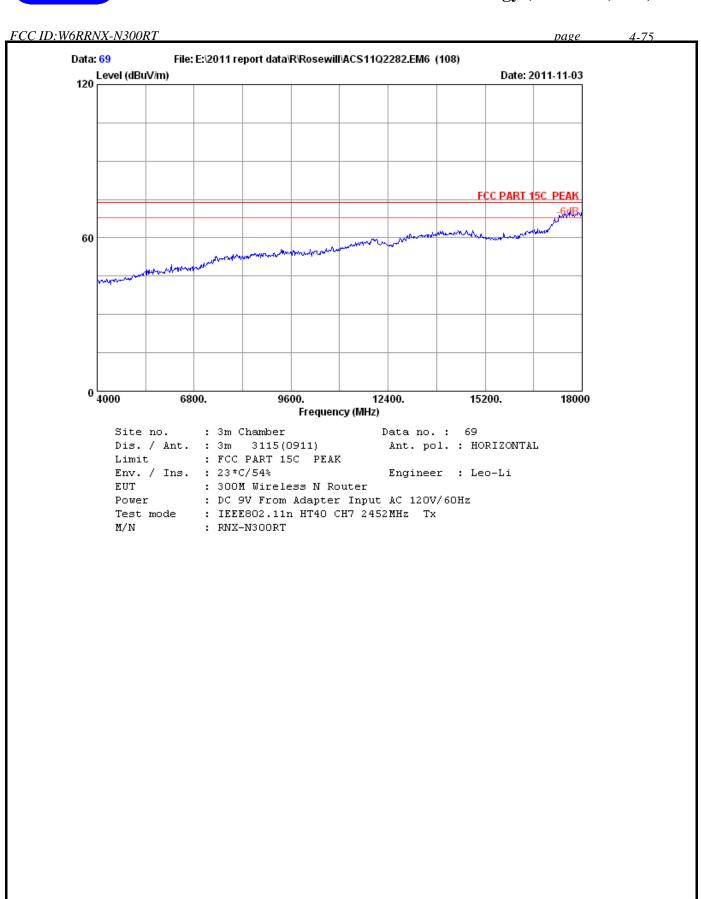
EUT : 300M Wireless N Router

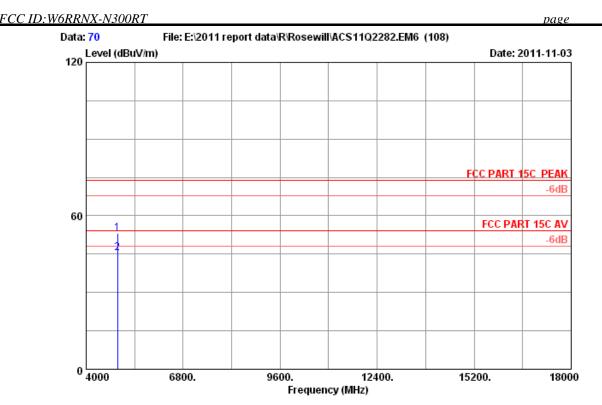
: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : RNX-N300RT

| | Ant | . capie | . Amp. | | Lm188. | ion | | | |
|---|--------------|-----------|--------|---------|-----------|----------|--------|--------|--|
| | Freq. Fact | or loss | Factor | Reading | Level | Limits | Margin | Remark | |
| | (MHz) (dB/ | m) (dB) | (dB) | (dBuV) | (dBuW/m) | dBuV/m) | (dB) | | |
| | (11112) (42) | iii) (GD) | (GD) | (abar) | (abar, m) | . abar,, | (42) | | |
| | | | | | | | | | |
| 1 | 1201.000 25. | 81 5.16 | 37.54 | 45.71 | 39.14 | 74.00 | 34.86 | Peak | |
| 2 | 1600.000 26. | 96 5.91 | 36.94 | 52.74 | 48.67 | 74.00 | 25.33 | Peak | |
| 3 | 1801.000 28. | 08 6.29 | 36.83 | 43.42 | 40.96 | 74.00 | 33.04 | Peak | |
| 4 | 1999.000 29. | 20 6.63 | 36.70 | 44.33 | 43.46 | 74.00 | 30.54 | Peak | |
| 5 | 2452.000 29. | 47 7.50 | 36.61 | 102.53 | 102.89 | 74.00 | -28.89 | Peak | |
| | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.





Site no. : 3m Chamber Data no. : 70

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

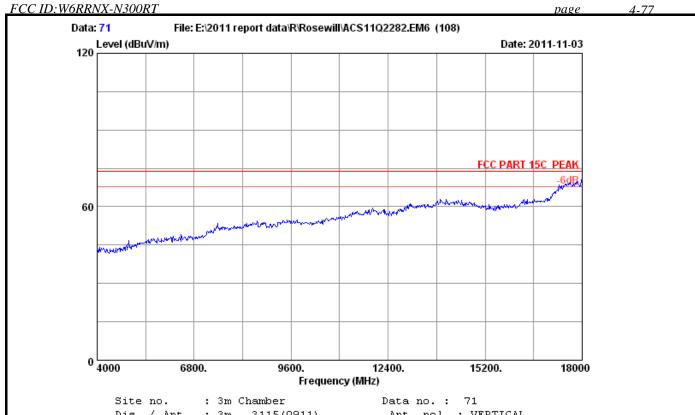
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : RNX-N300RT

| | Ant. Cable Amp. | | | Amp. | Emission | | | | |
|---|----------------------|--|--|------|-------------------|----------------|----------------|---|-----------------|
| | - | | | | Reading (dBuV) | | | _ | Remark |
| _ | 4904.000 4904.000 | | | | 42.99 35.19 | 53.19 45.39 | 74.00 54.00 | | Peak Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

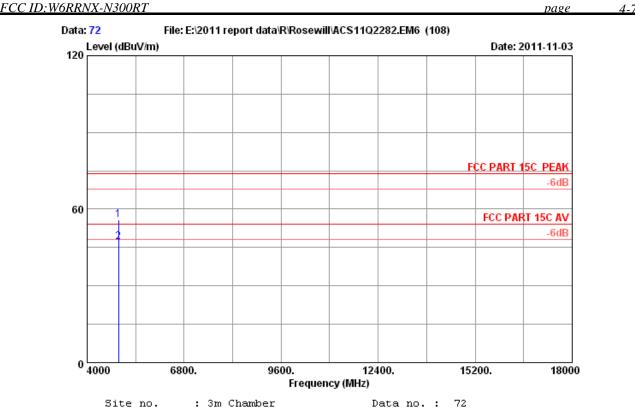
Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

: RNX-N300RT



: 3m Chamber Data no. : 72

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

: RNX-N300RT

| | Ant. Cable Amp. Emi | | | | | Emissi | Cmission | | | |
|---|---------------------|-------|-------|-------|-------------------|--------|----------|-------|---------|--|
| | - | | | | Reading (dBuV) | | | _ | Remark | |
| | 4904.000 | | | | 45.46 | 55.66 | | 18.34 | Peak | |
| 2 | 4904.000 | 34.46 | 10.74 | 35.00 | 36.97 | 47.17 | 54.00 | 6.83 | Average | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



FCC ID:W6RRNX-N300RT page 5-1

5. CONDUCTED SPURIOUS EMISSIONS

5.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-------------|------------|-----------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08,11 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08,11 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08,11 | 1Year |

5.2.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

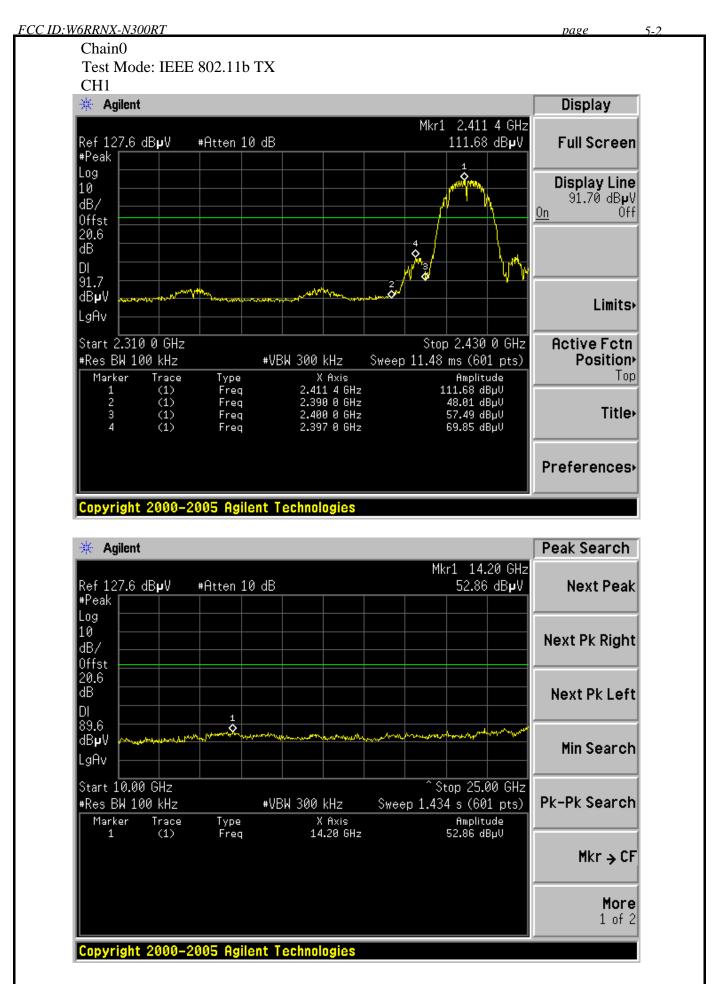
5.3.Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

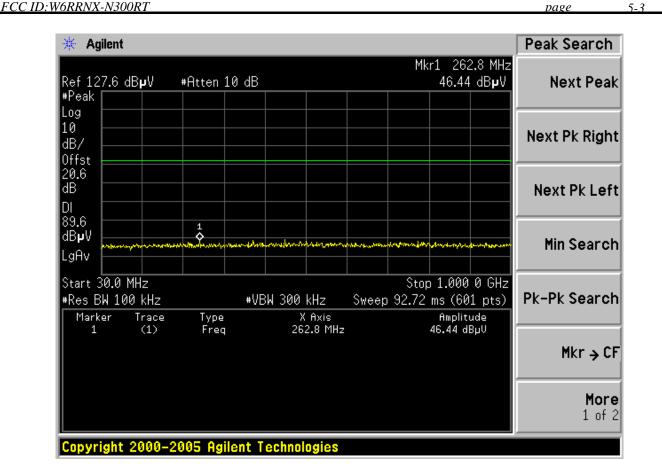
5.4.Test result

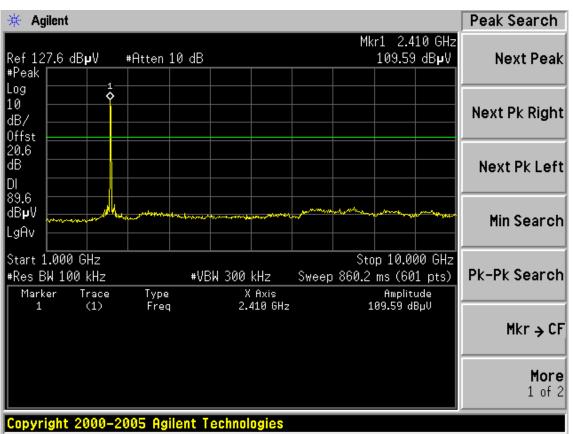
PASS (The testing data was attached in the next pages.)



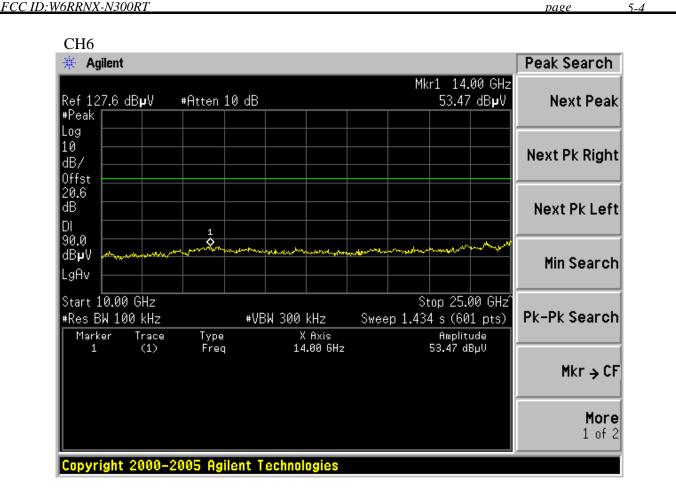


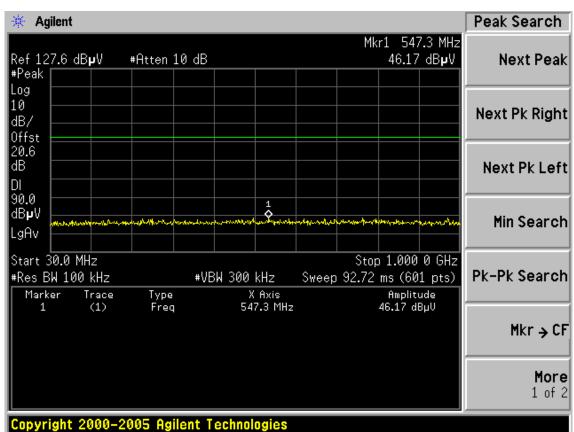




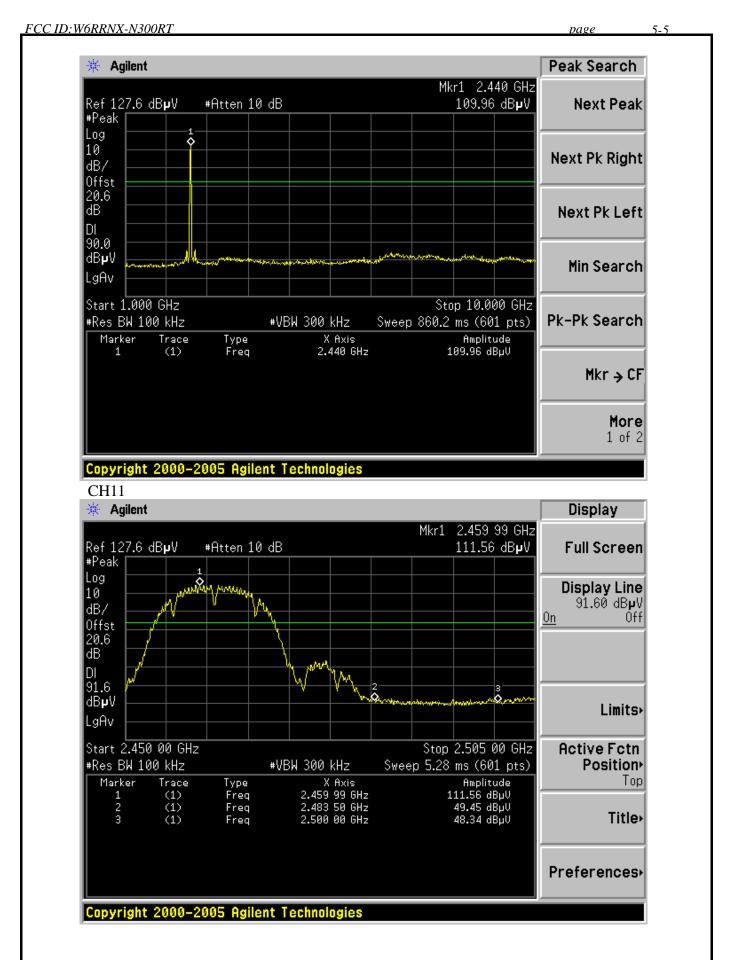




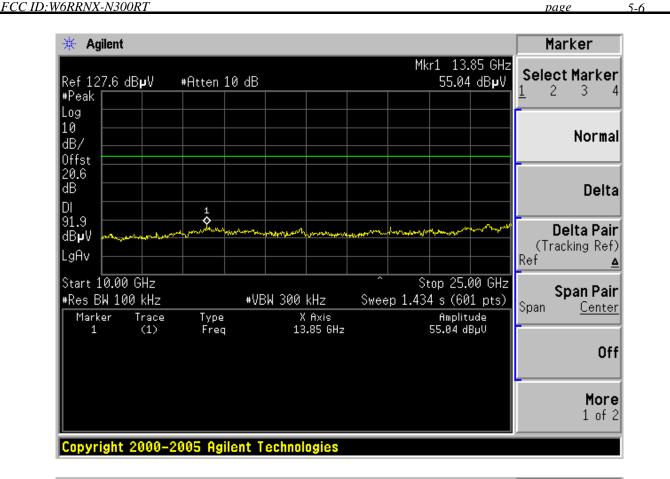


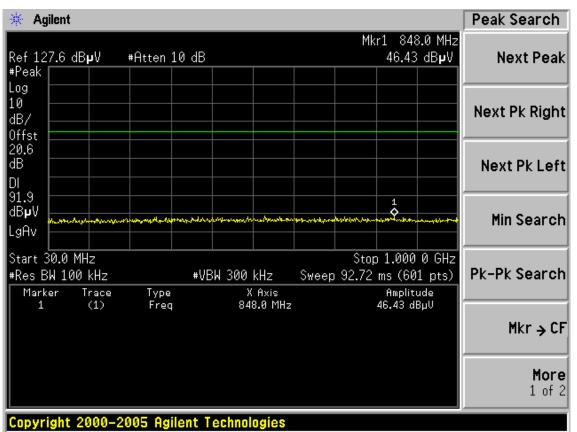




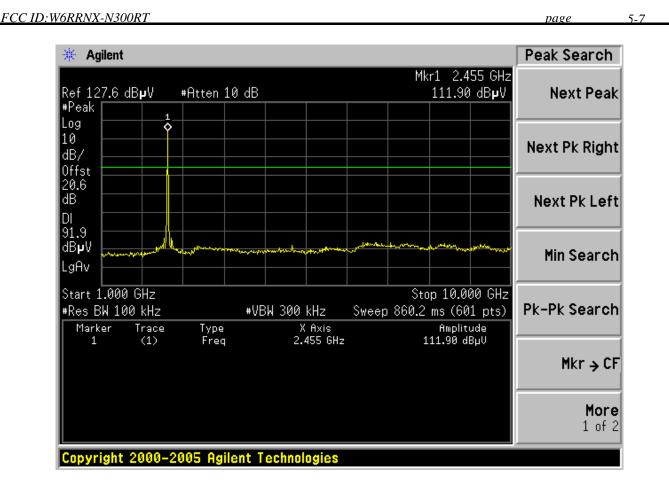




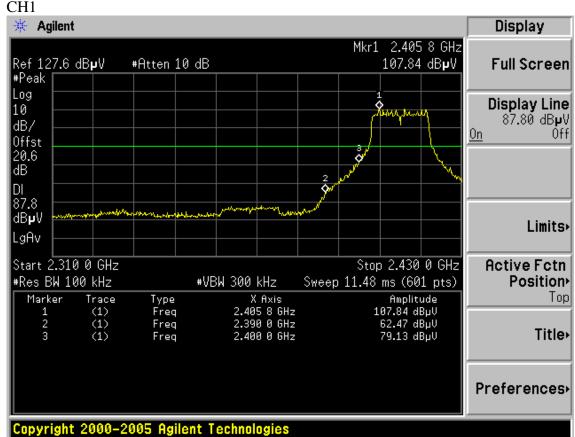




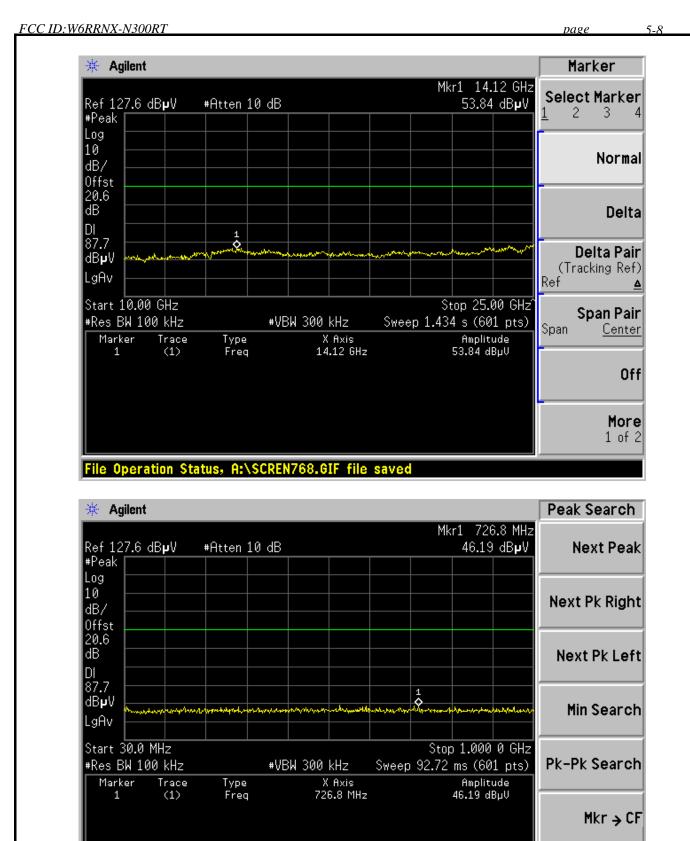




Test Mode: IEEE 802.11g TX



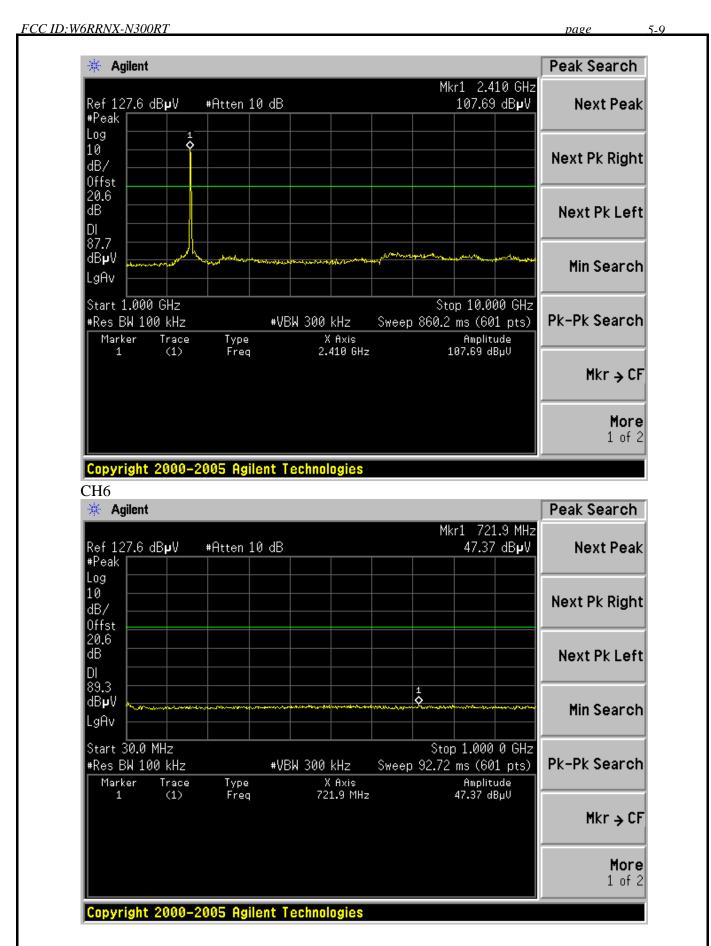




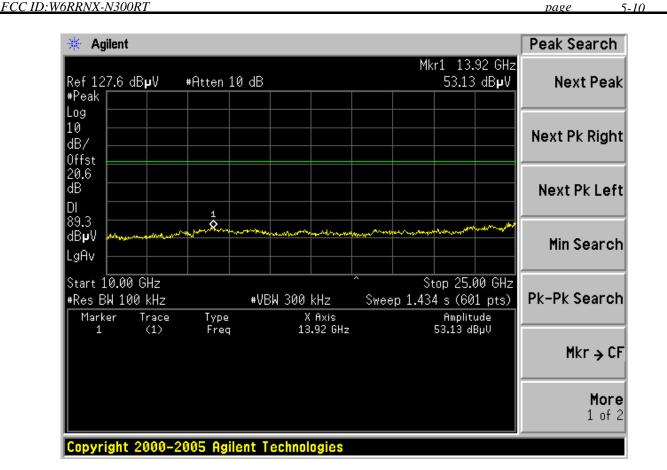
Copyright 2000-2005 Agilent Technologies

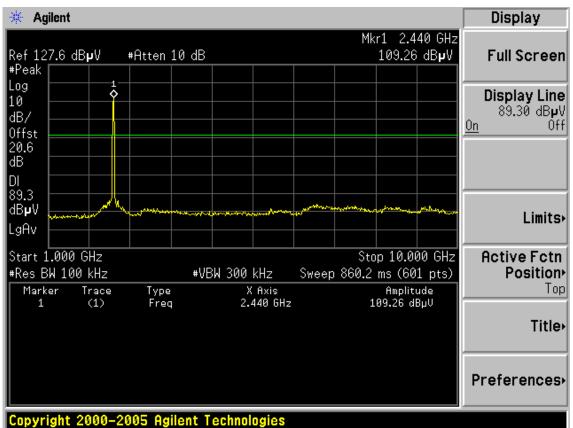
More 1 of 2



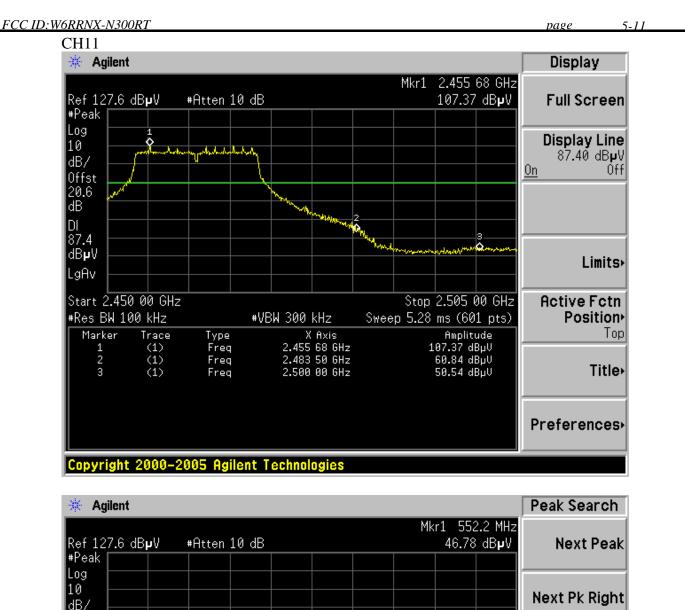


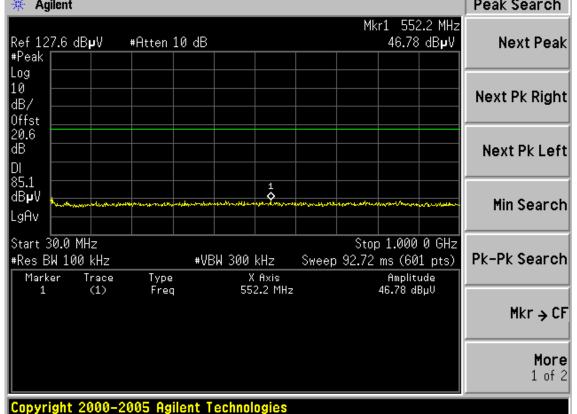




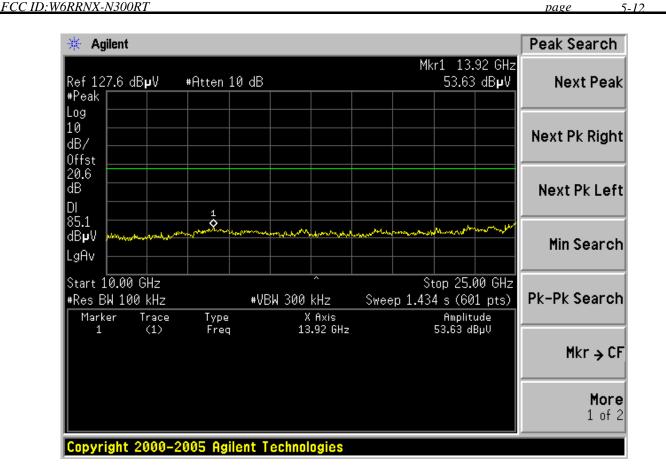


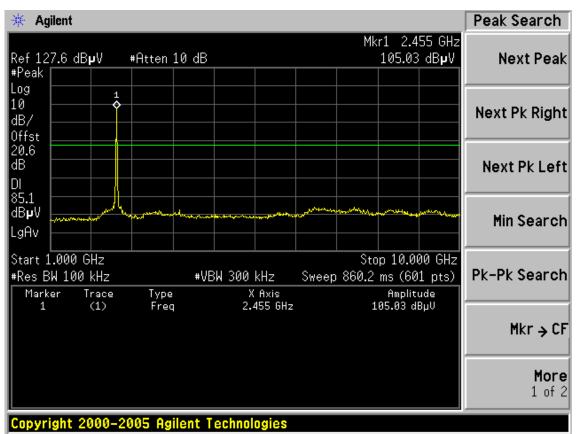




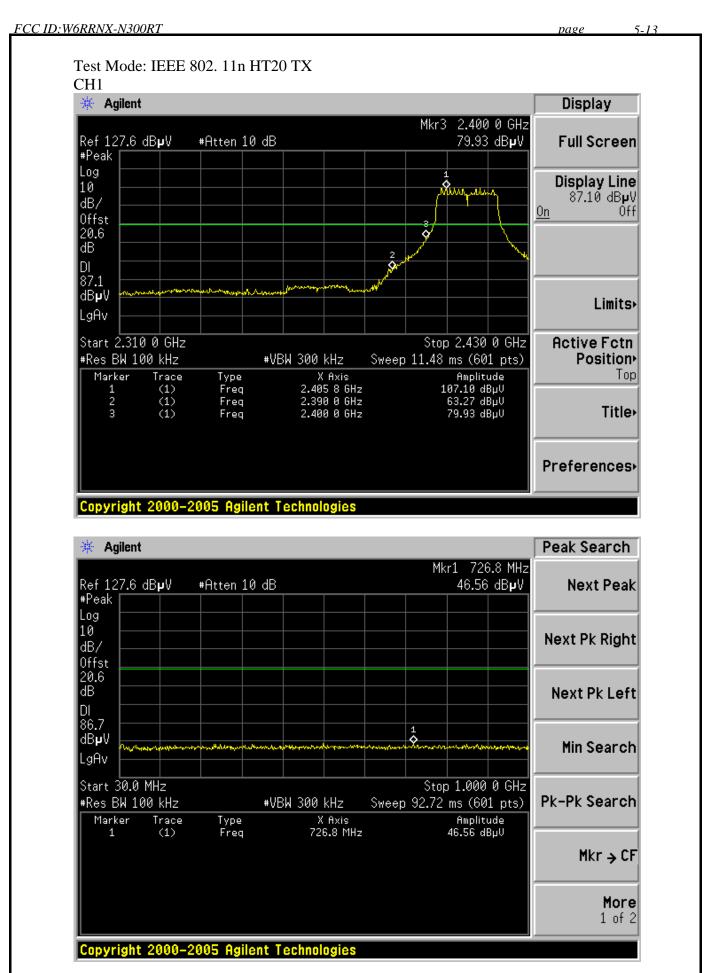




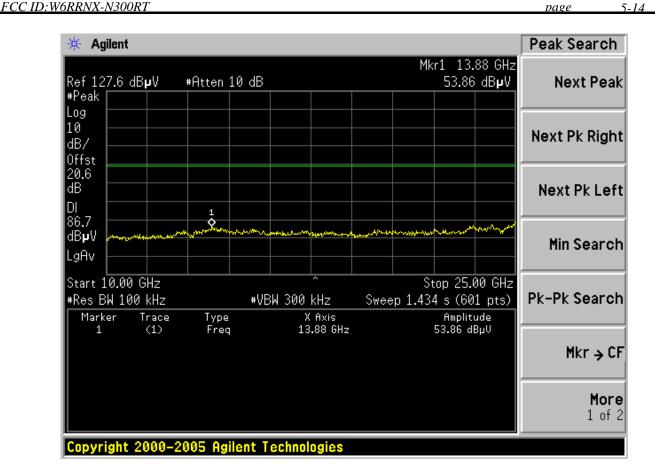


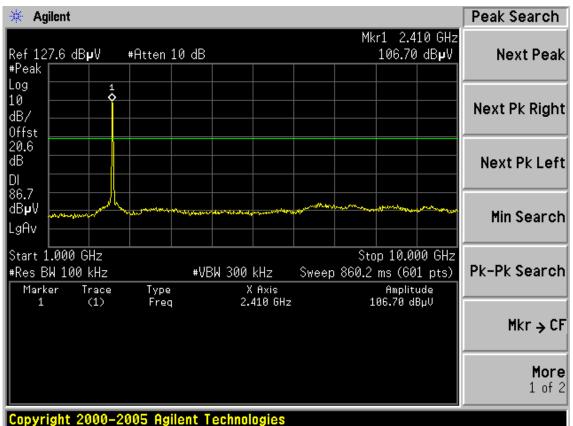




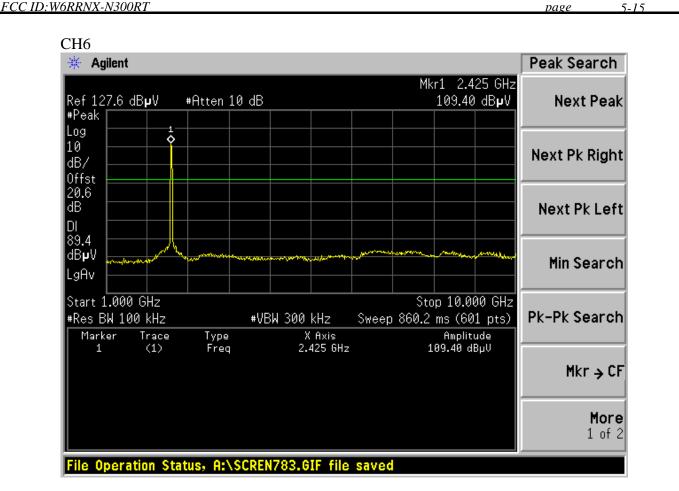


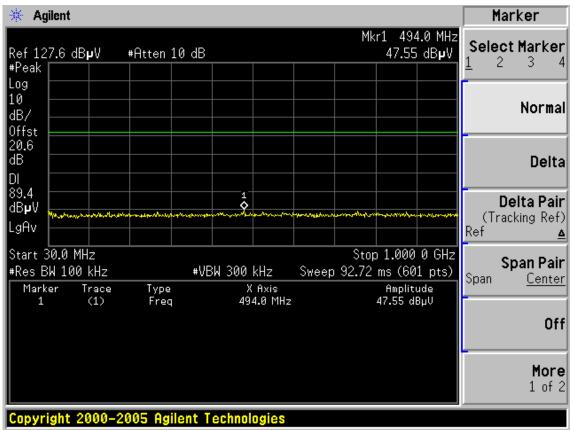




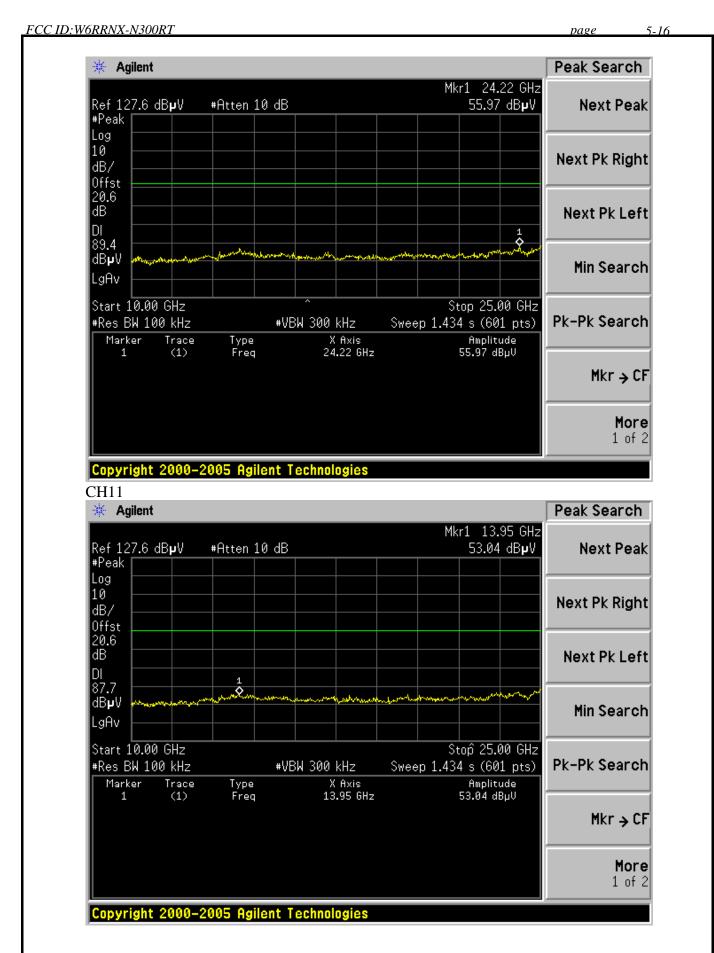




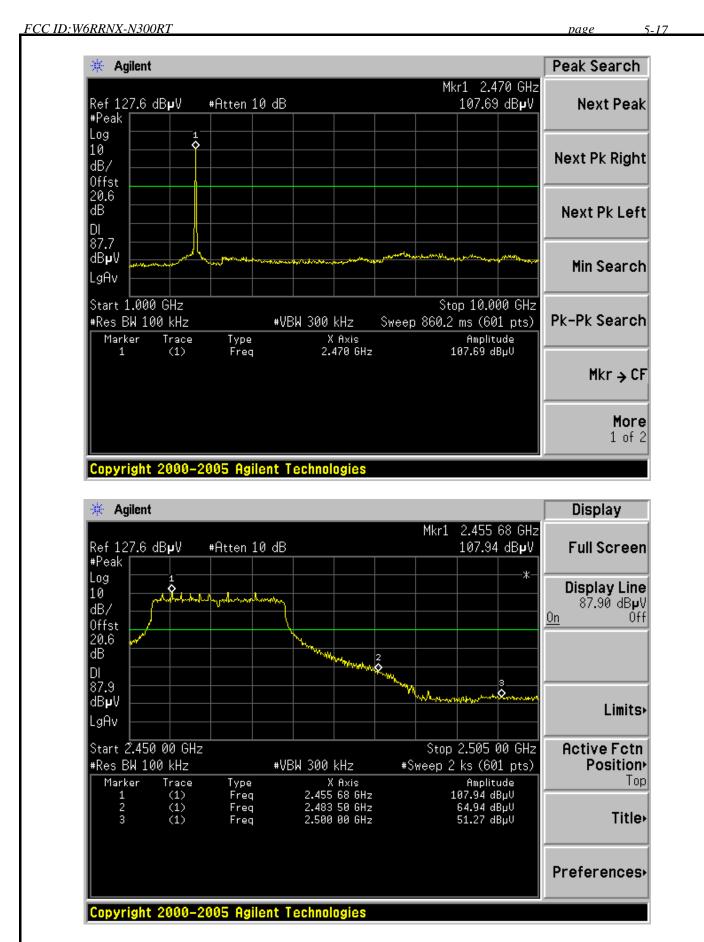




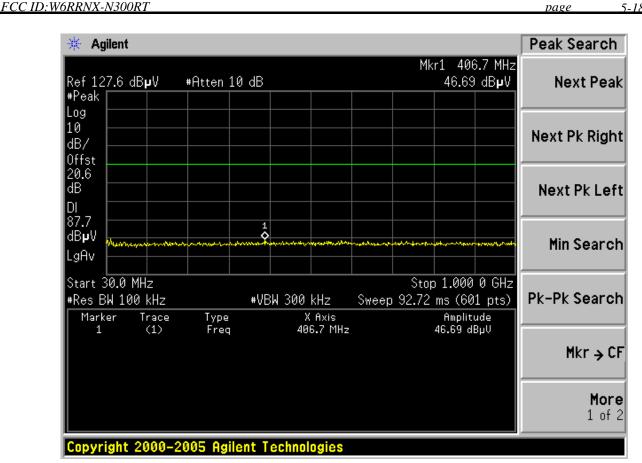






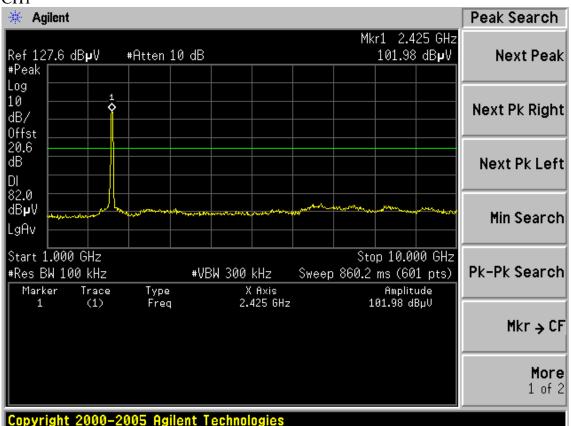




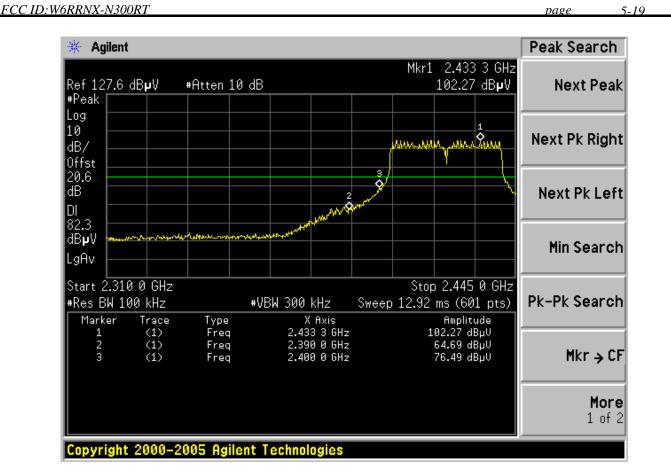


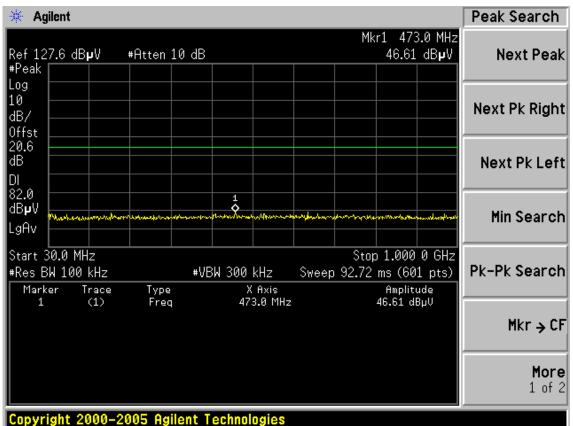
Test Mode: IEEE 802. 11n HT40TX



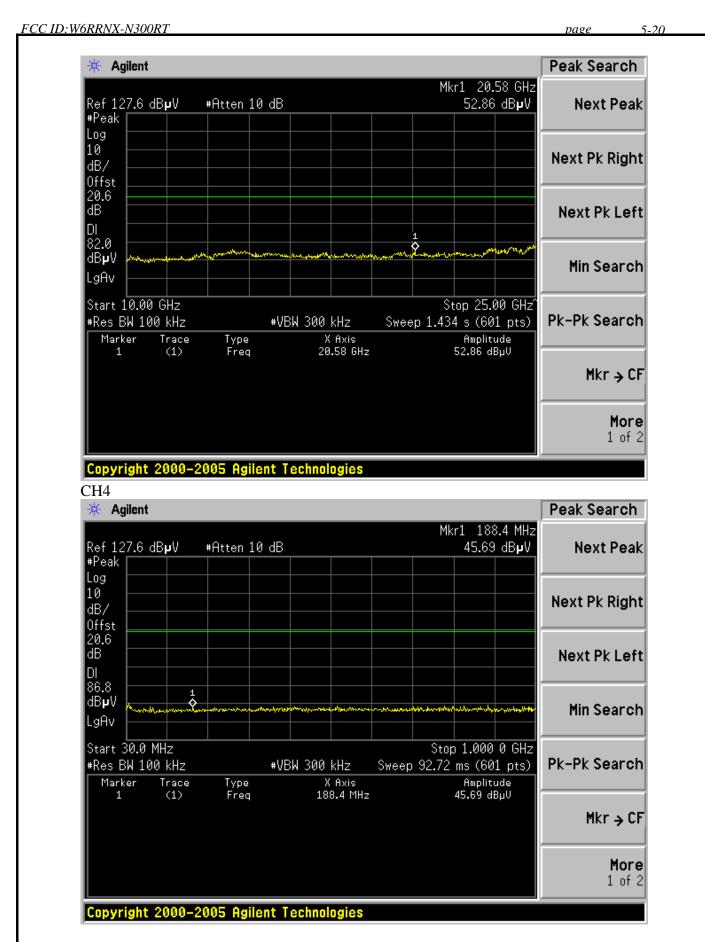




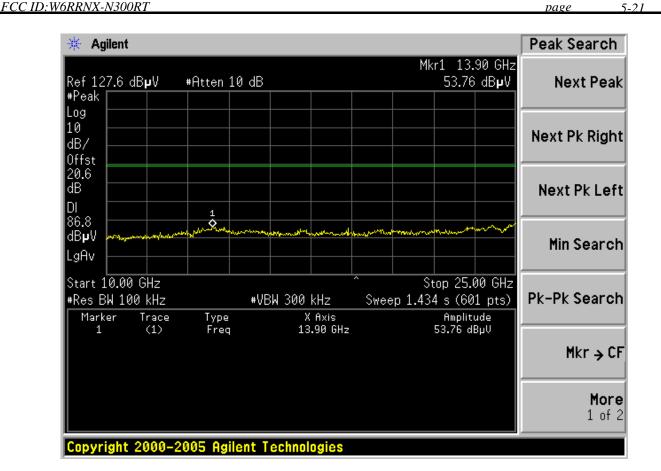


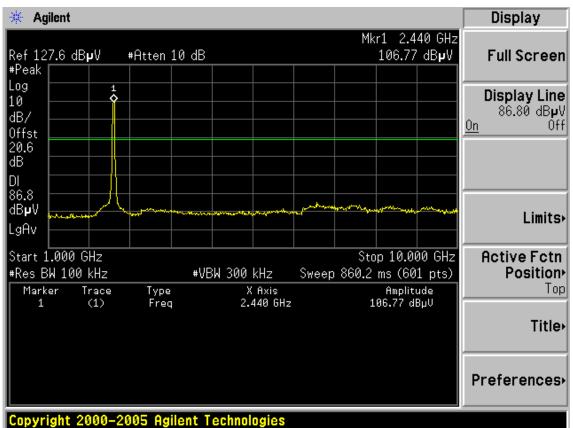




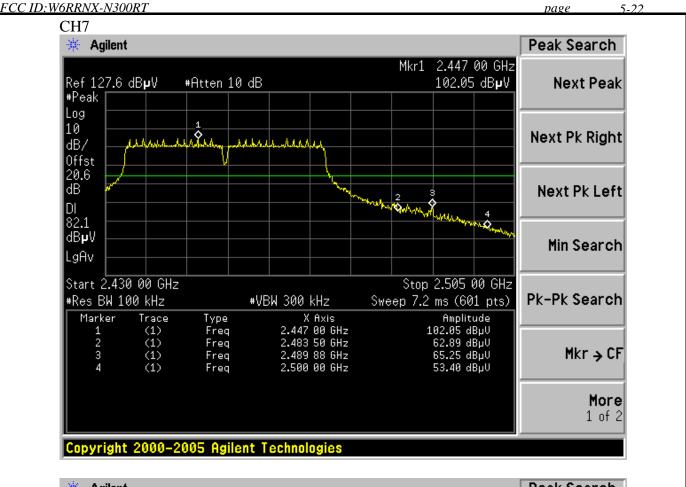


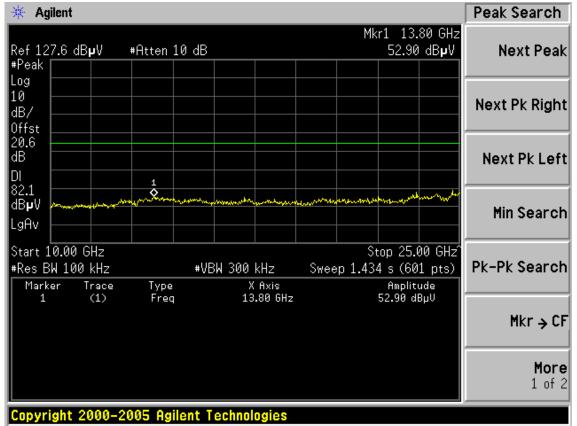




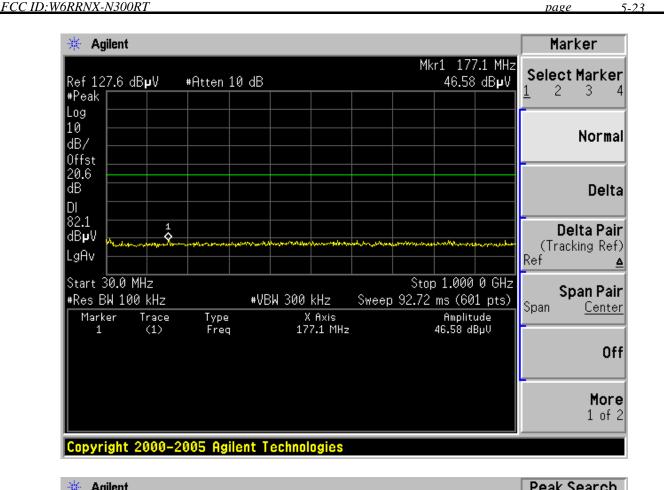


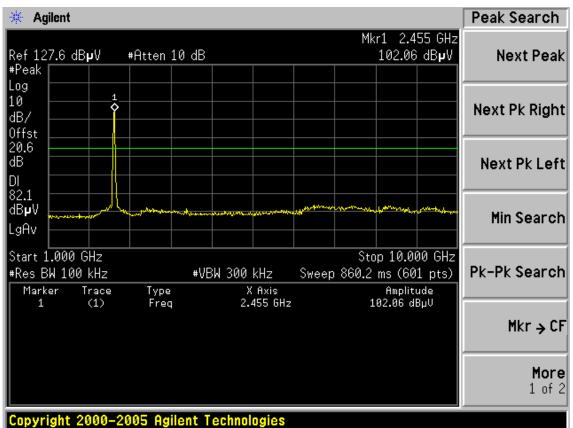




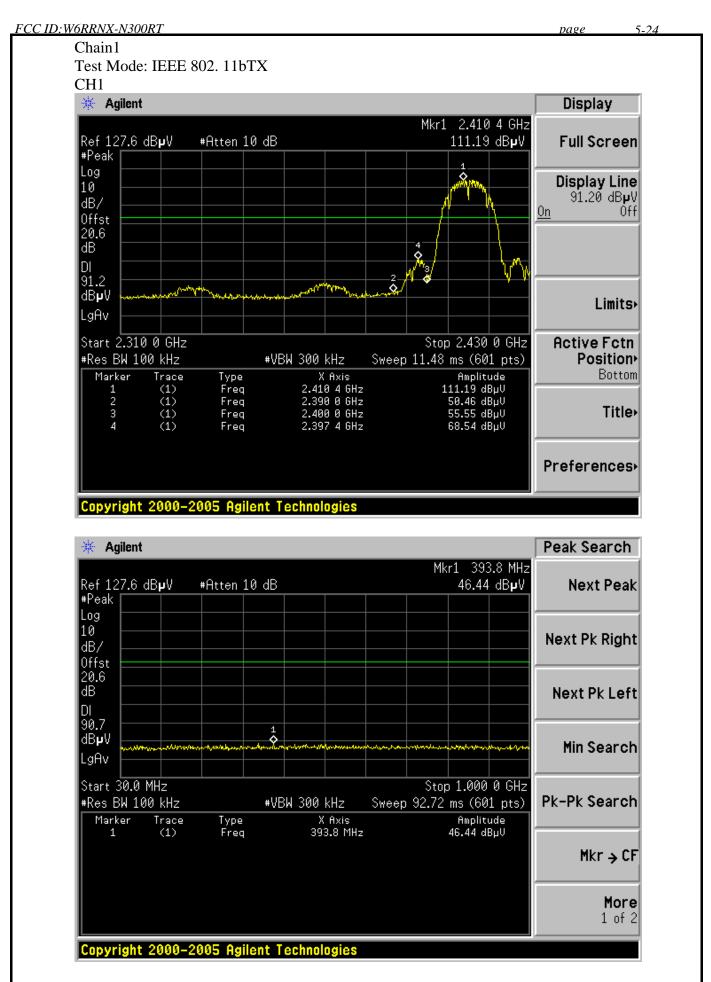




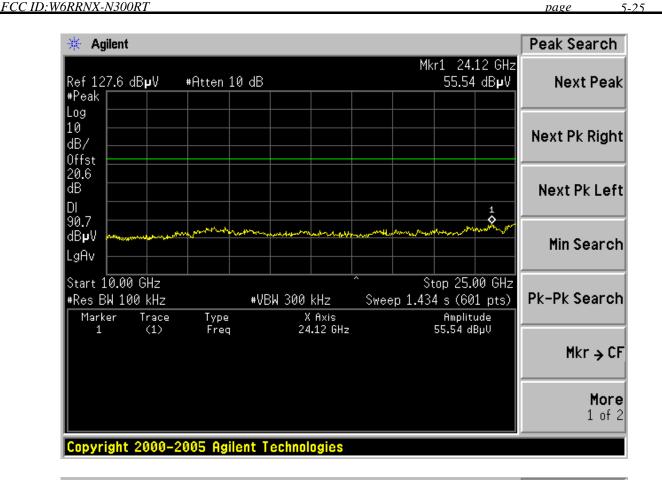


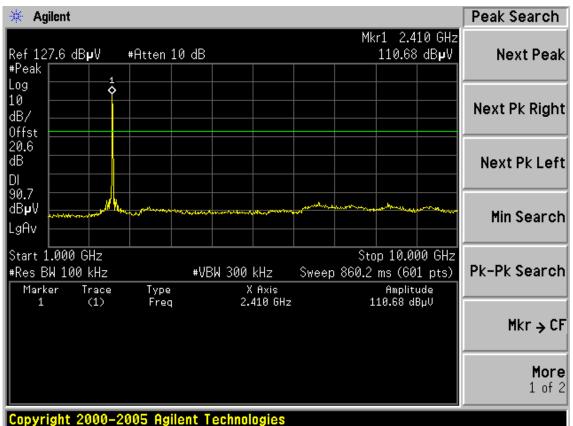




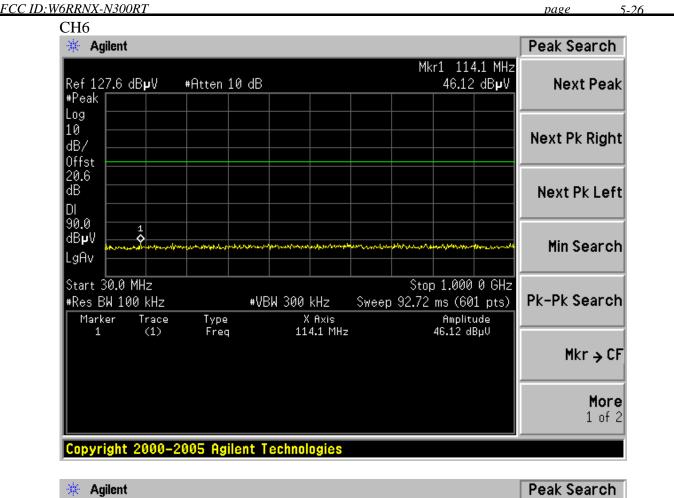


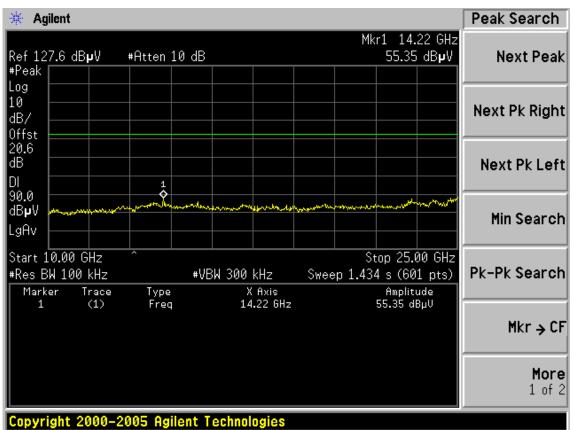




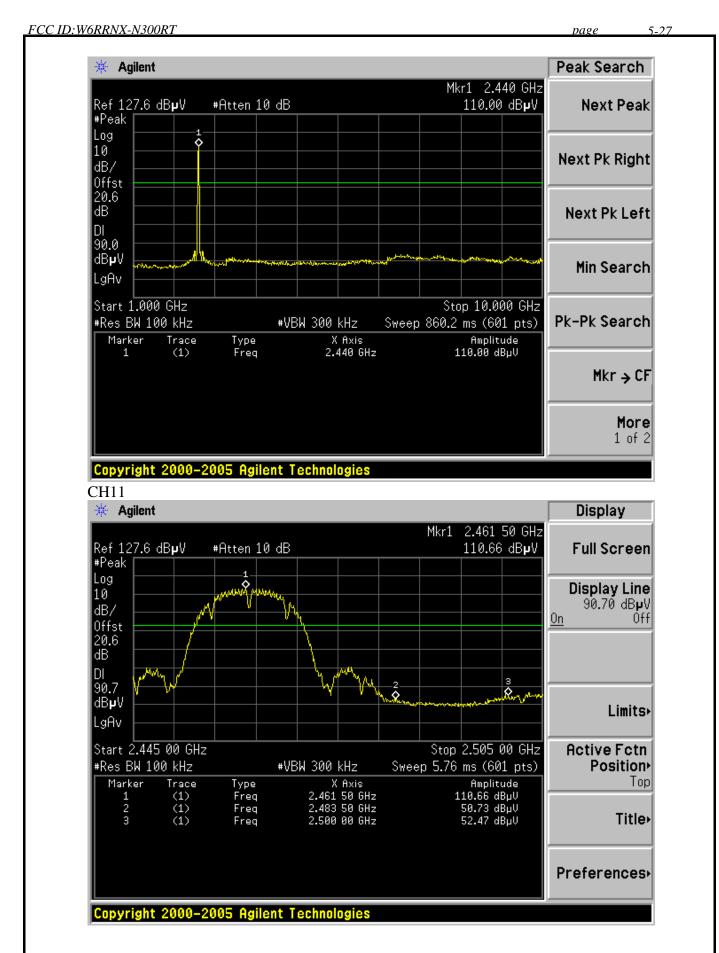




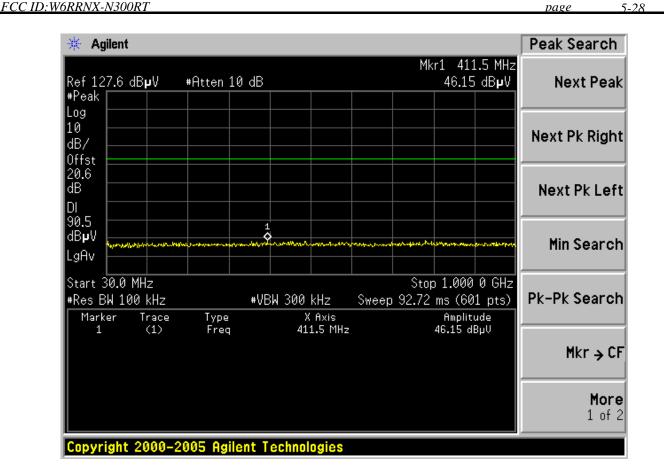


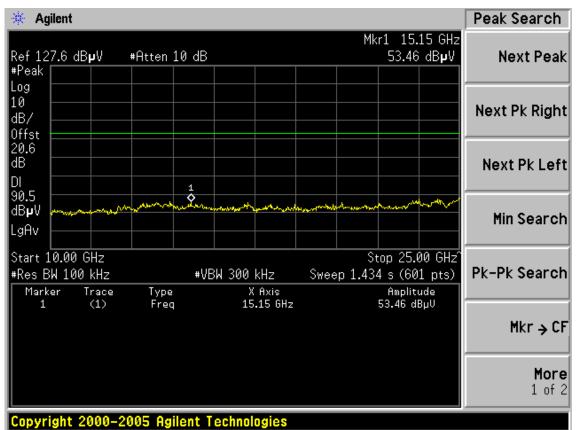




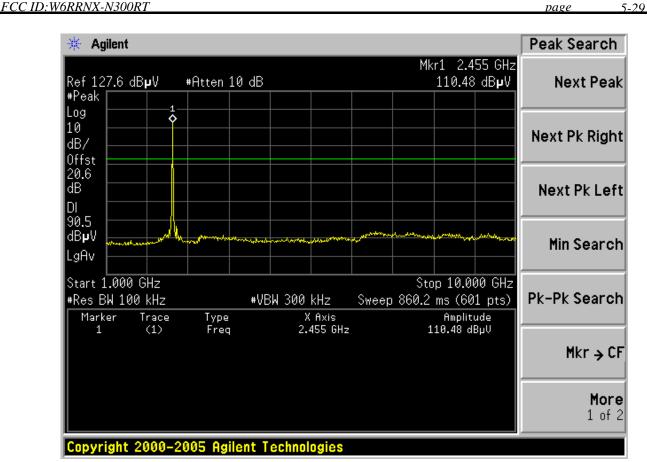






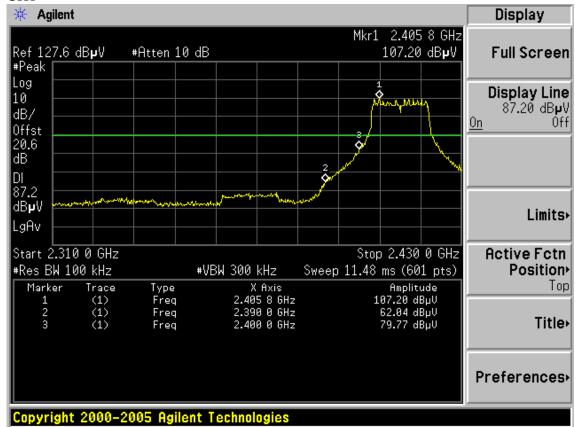




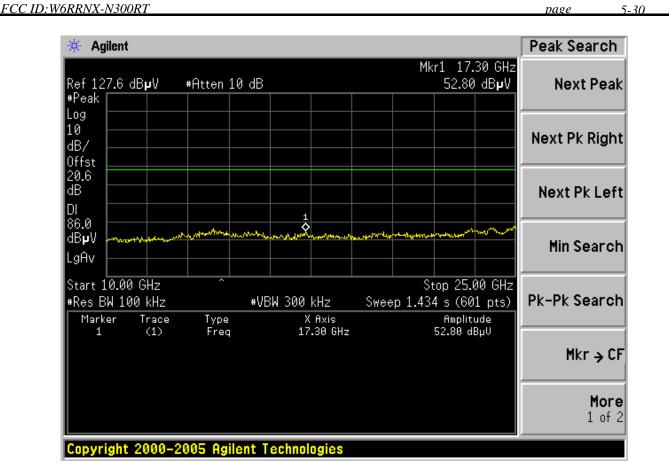


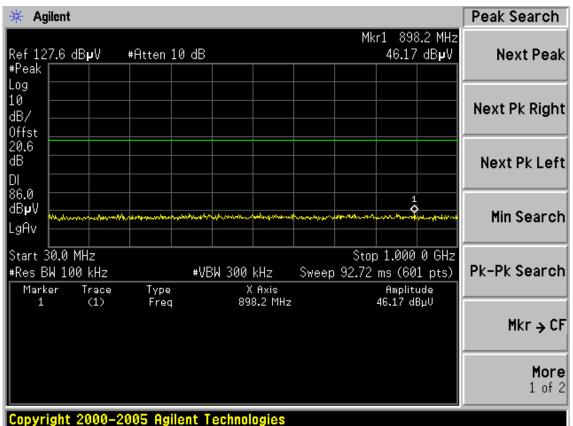
Test Mode: IEEE 802. 11gTX

CH1

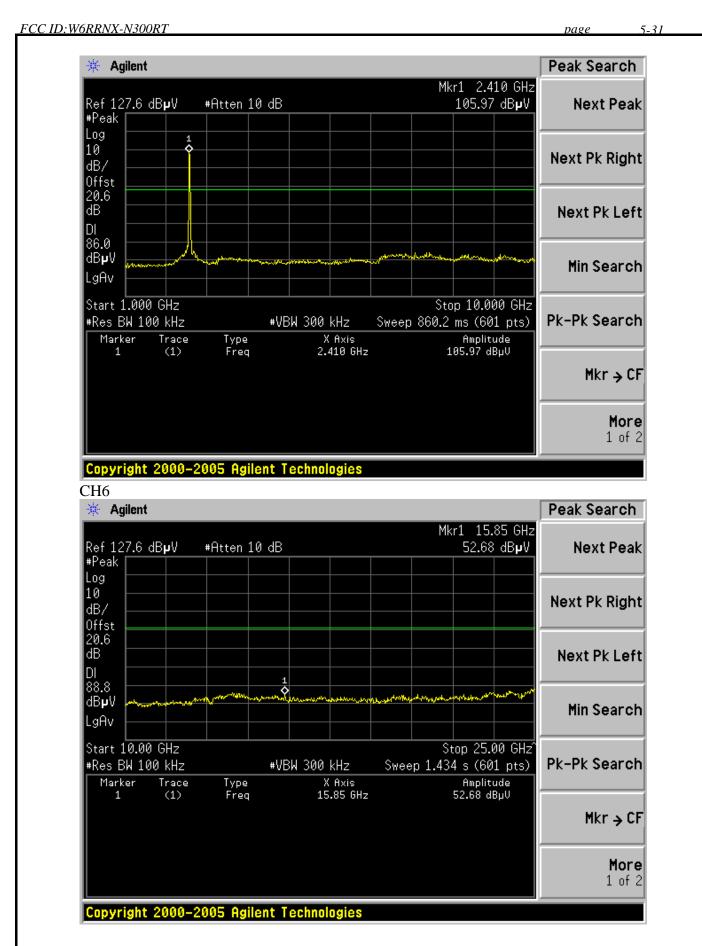




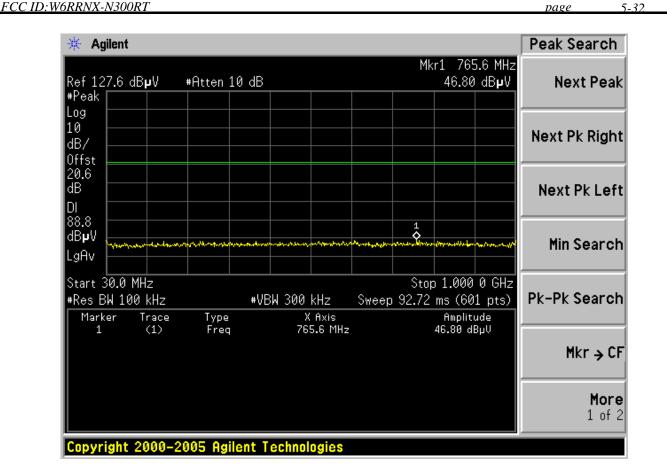


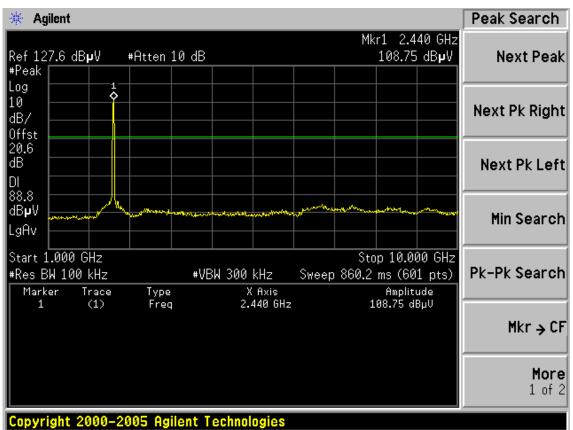




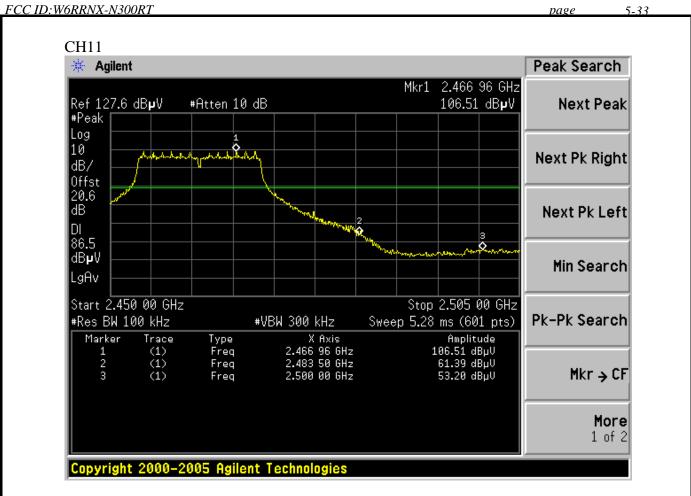


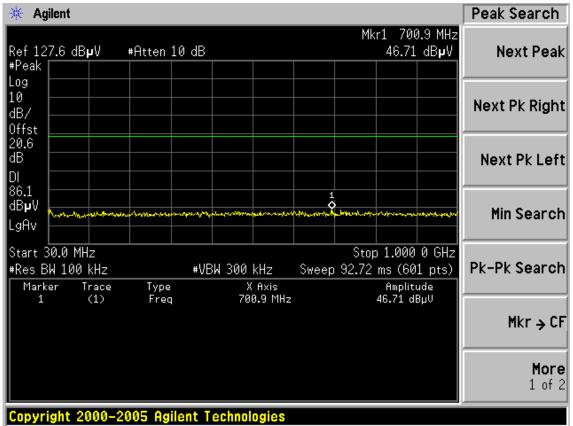




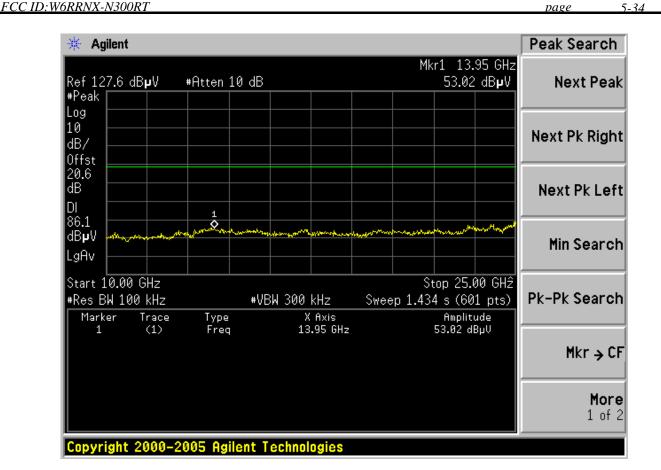


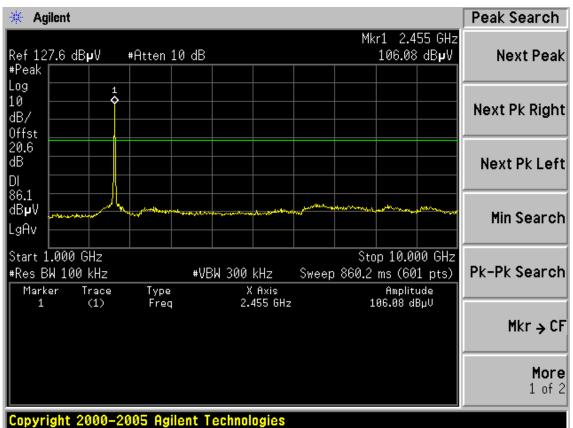




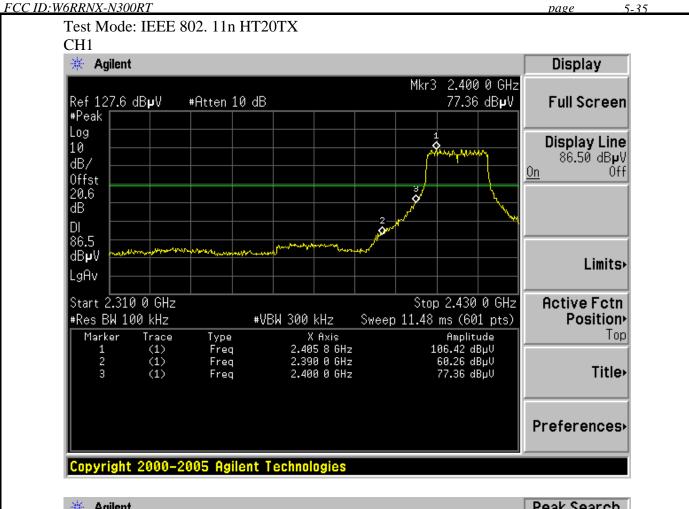


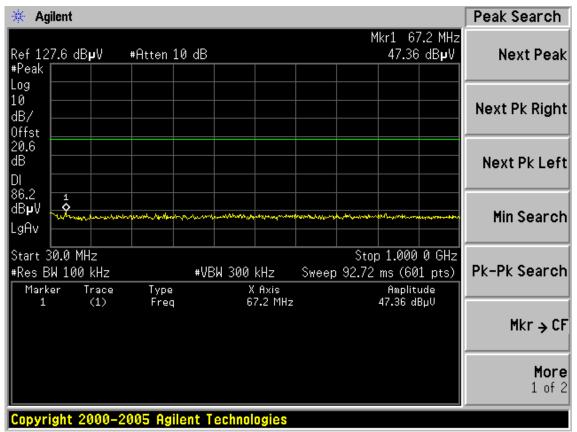




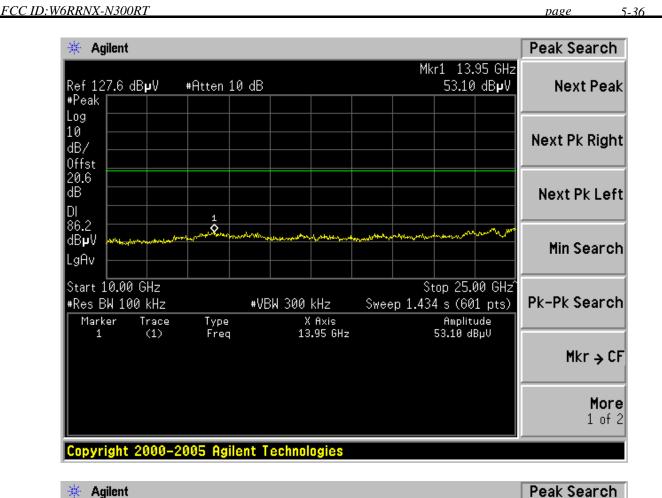


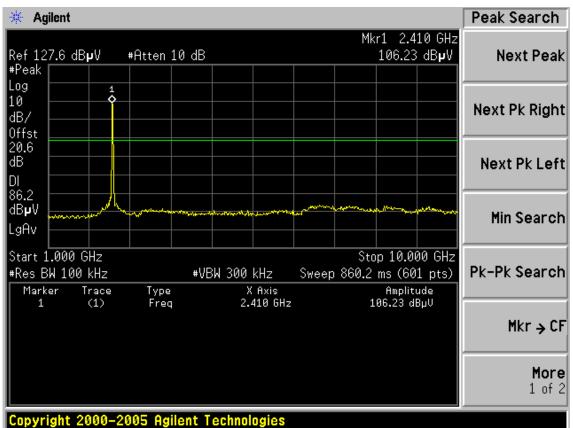




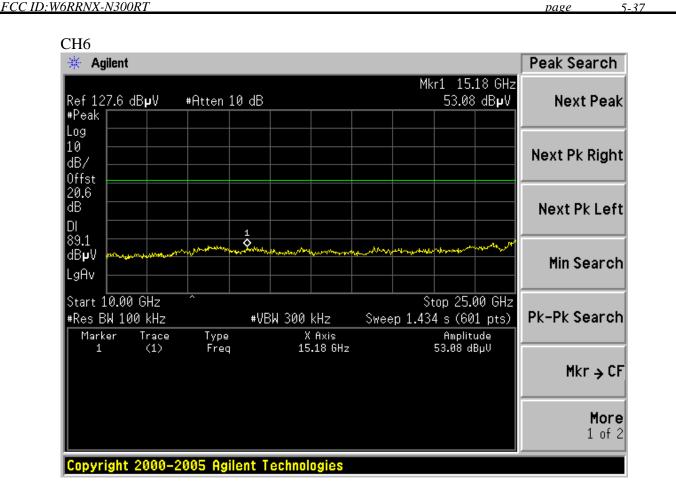


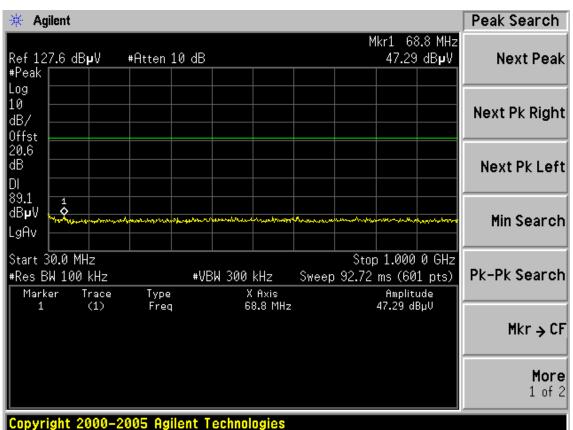




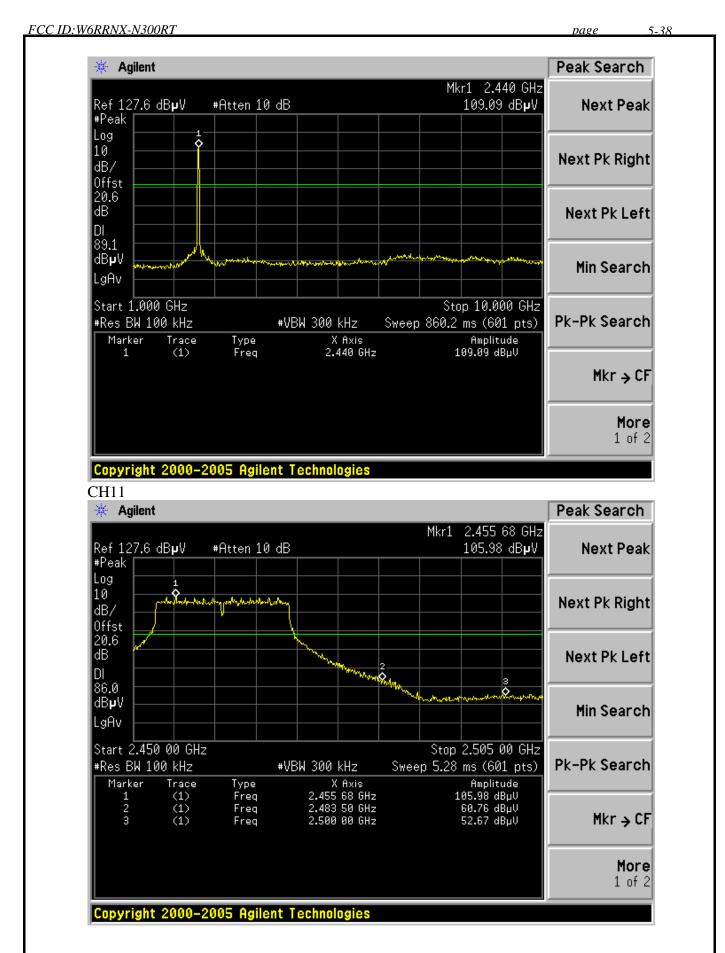




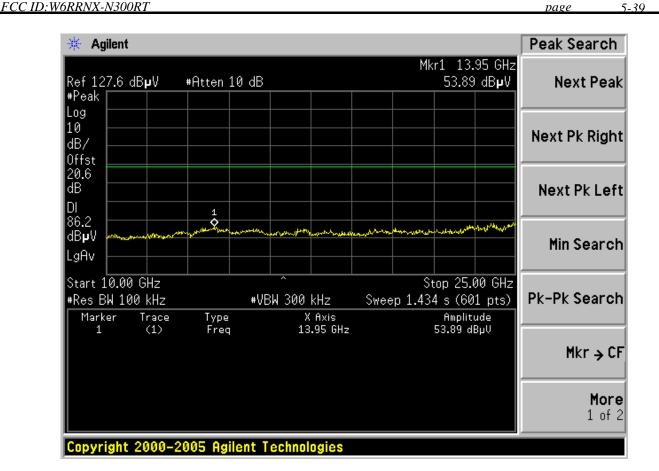


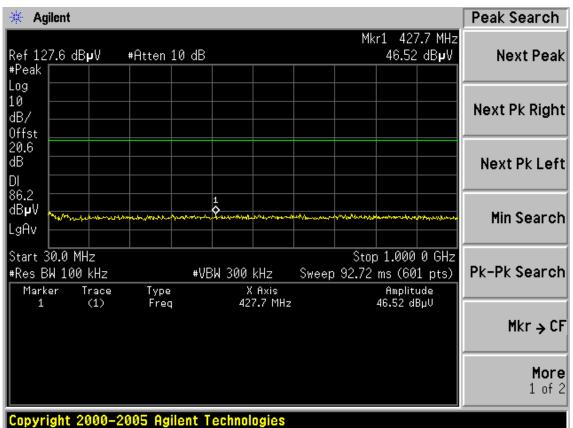




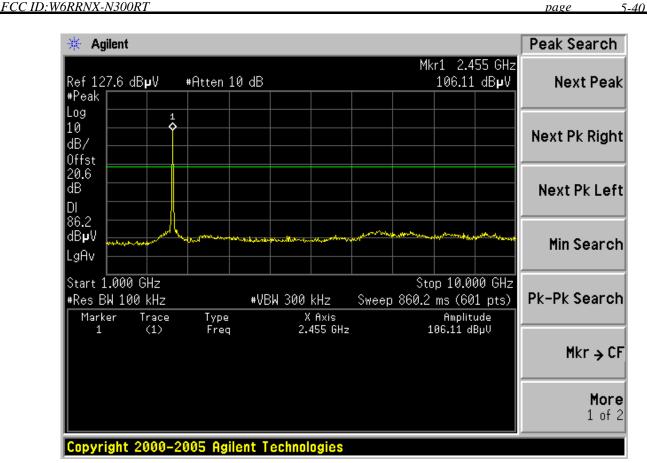






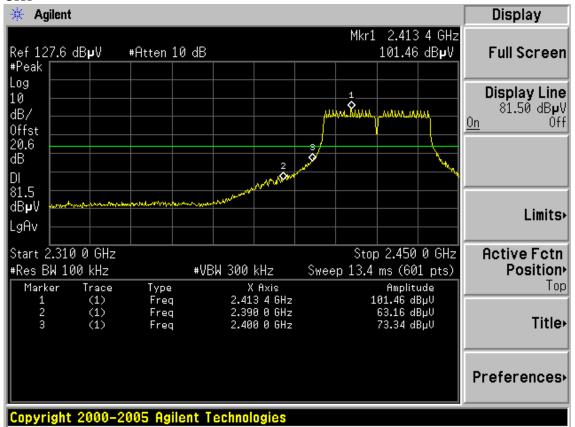




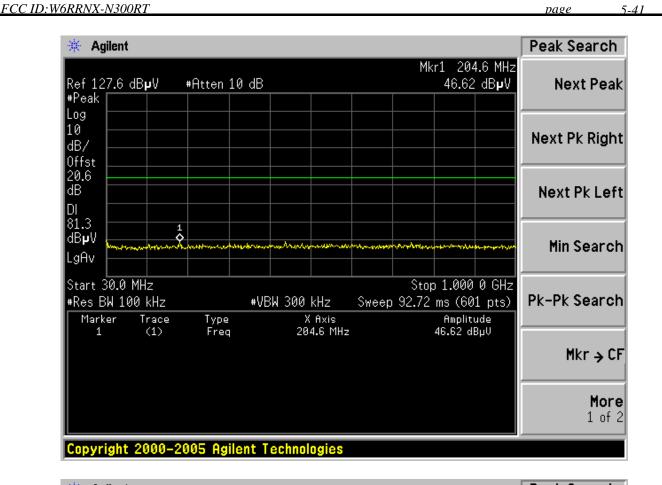


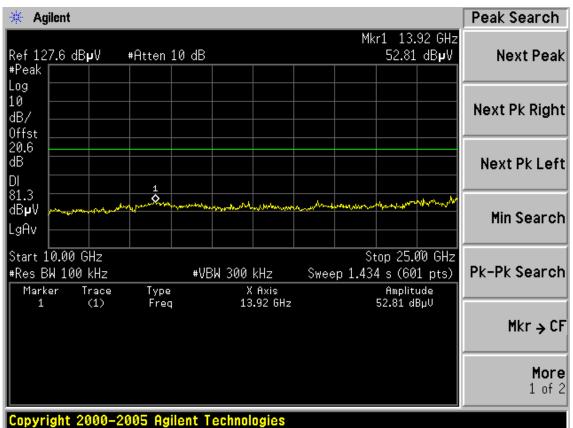
Test Mode: IEEE 802. 11n HT40 TX

CH1

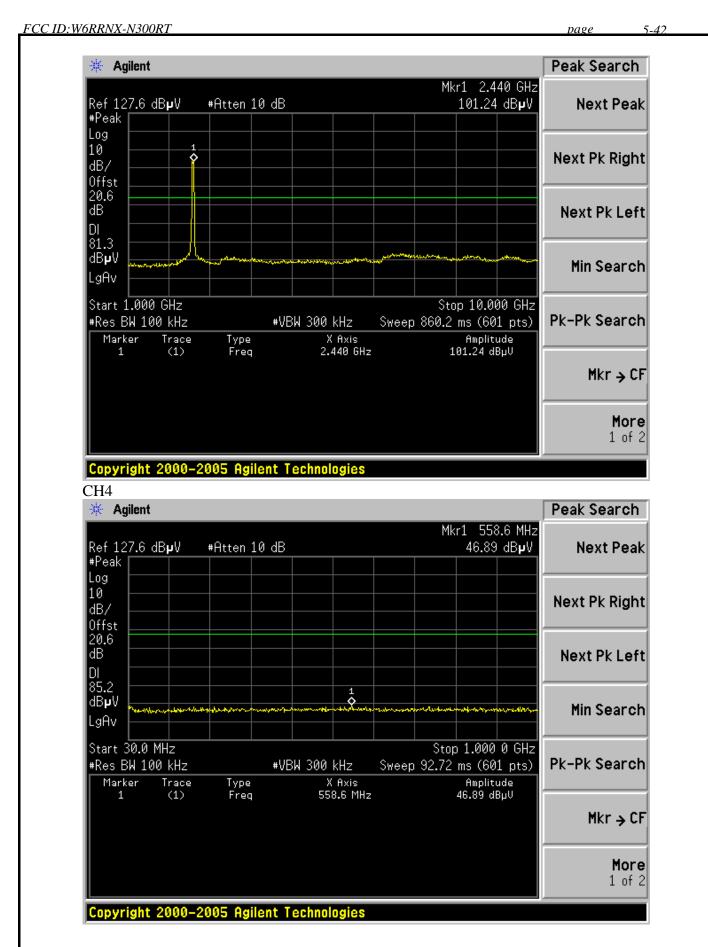




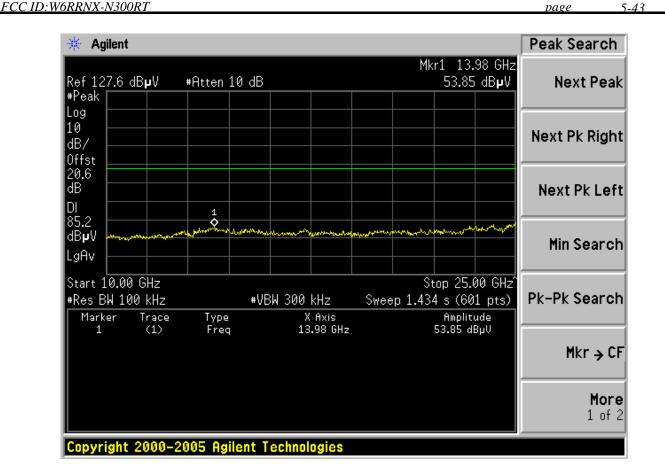


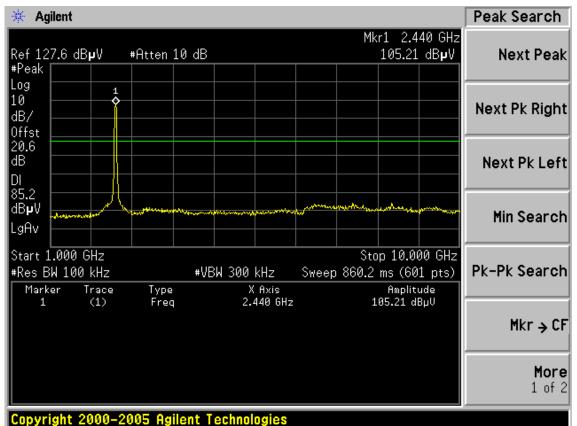




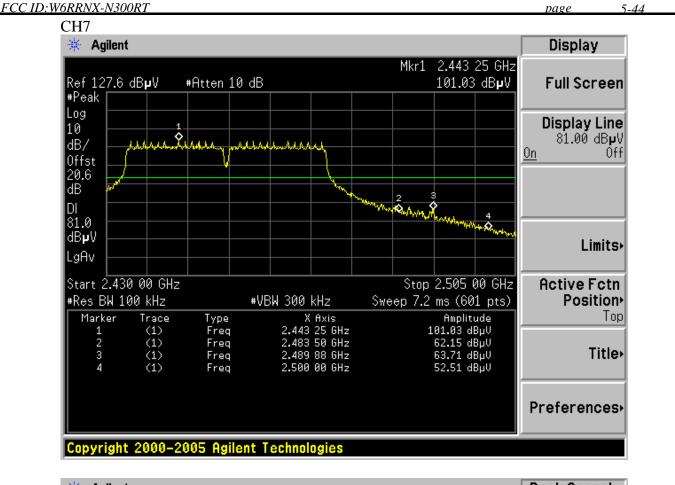


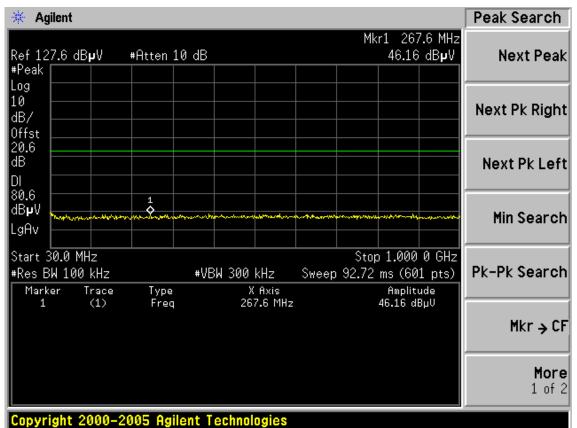




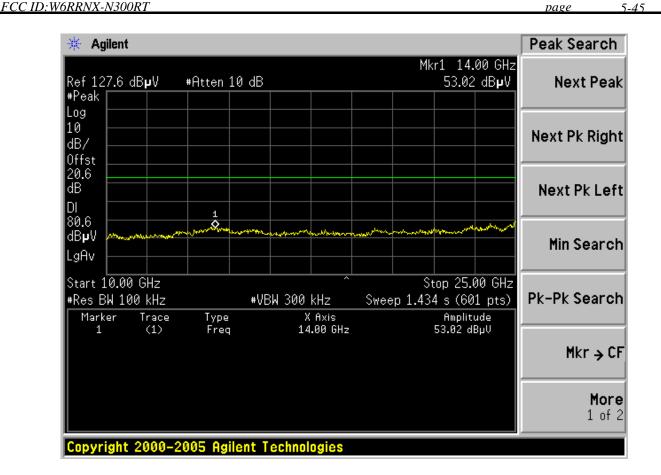


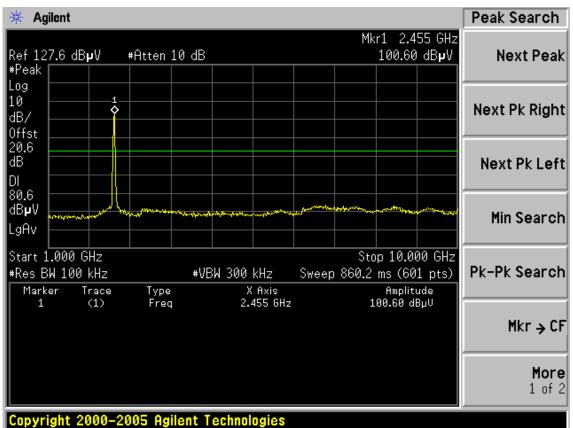














FCC ID: W6RRNX-N300RT page 6-

6. BAND EDGE COMPLIANCE TEST

6.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|--------------|-------------|------------|------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08,11 | 1 Year |
| 2. | Horn Antenna | EMCO | 3115 | 9607-4877 | May 08, 11 | 1.5 Year |
| 3. | Amplifier | Agilent | 8449B | 3008A02495 | May.08, 11 | 1 Year |
| 4. | RF Cable | Hubersuhner | SUCOFLEX102 | 28620/2 | May.08,11 | 1 Year |
| 5. | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08,11 | 1 Year |
| 6. | RF Cable | Hubersuhner | SUCOFLEX102 | 28610/2 | May.08,11 | 1 Year |

6.2.Limit

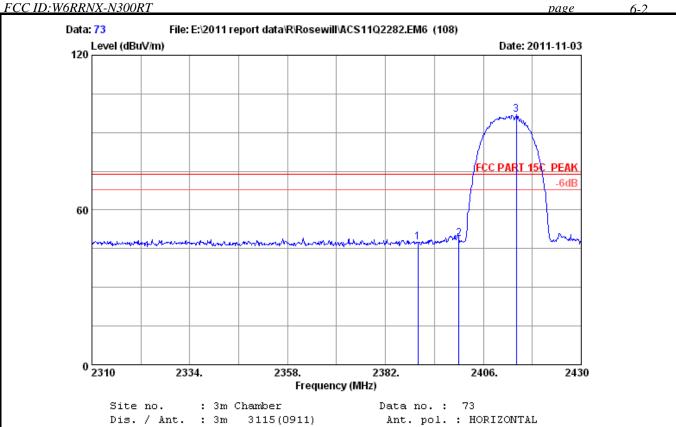
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
- (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4.Test Results

Pass (The testing data was attached in the next pages.)



Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

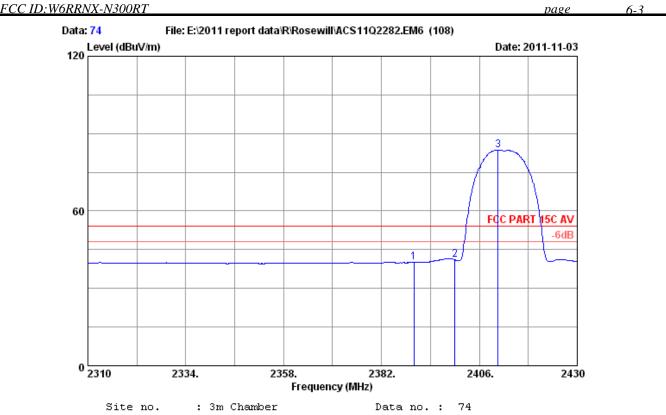
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : RNX-N300RT

| | An | t. Cable | e Amp. | | Emiss: | ion | | | |
|---|-------------|----------|--------|---------|----------|---------|--------|--------|--|
| | Freq. Fac | tor loss | Factor | Reading | Level | Limits | Margin | Remark | |
| | (MHz) (dB, | /m) (dB) | (dB) | (dBuV) | (dBuV/m) | dBuV/m) | (dB) | | |
| | | | | | | | | | |
| 1 | 2390.000 29 | .44 7.39 | 36.62 | 47.32 | 47.53 | 74.00 | 26.47 | Peak | |
| 2 | 2400.000 29 | .44 7.43 | 36.62 | 48.60 | 48.85 | 74.00 | 25.15 | Peak | |
| 3 | 2414.040 29 | .45 7.43 | 36.62 | 96.55 | 96.81 | 74.00 | -22.81 | Peak | |
| | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

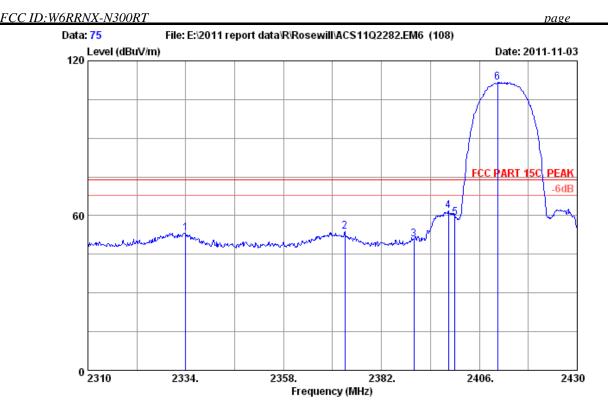
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|--------|---------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/n |) (dB) | |
| | | | | | | |
| 1 | 2390.000 29.44 | 7.39 36.62 | 39.79 | 40.00 54.00 | 14.00 | Average |
| 2 | 2400.000 29.44 | 7.43 36.62 | 40.81 | 41.06 54.00 | 12.94 | Average |
| 3 | 2410.560 29.45 | 7.43 36.62 | 83.43 | 83.69 54.00 | -29.69 | Average |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 75

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

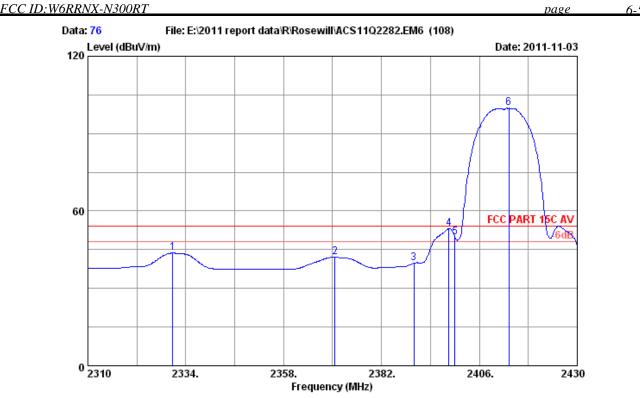
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|----------------|-----------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limit: | s Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV, | /m) (dB) | |
| | | | | | | |
| 1 | 2334.000 29.40 | 7.27 36.63 | 53.21 | 53.25 74.0 | 00 20.75 | Peak |
| 2 | 2373.000 29.43 | 7.35 36.62 | 53.53 | 53.69 74.0 | 00 20.31 | Peak |
| 3 | 2390.000 29.44 | 7.39 36.62 | 50.46 | 50.67 74.0 | 00 23.33 | Peak |
| 4 | 2398.440 29.44 | 7.39 36.62 | 61.51 | 61.72 74.0 | 00 12.28 | Peak |
| 5 | 2400.000 29.44 | 7.43 36.62 | 58.84 | 59.09 74.0 | 00 14.91 | Peak |
| 6 | 2410.440 29.45 | 7.43 36.62 | 111.36 | 111.62 74.0 | 00 -37.62 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 76

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

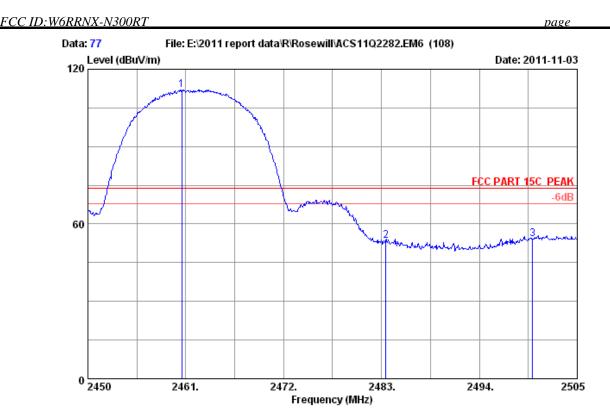
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. Freq. Factor (MHz) (dB/m) | Cable Amp. loss Factor (dB) (dB) | Reading (dBuV) | Emission Level Limits (dBuV/m) dBuV/r | Margin | Remark |
|---|--------------------------------------|--|-------------------|---|--------|---------|
| 1 | 2330.760 29.40 | 7.27 36.63 | 43.64 | 43.68 54.00 | 10.32 | Average |
| 2 | 2370.600 29.43 | 7.35 36.62 | 41.96 | 42.12 54.00 | 11.88 | Average |
| 3 | 2390.000 29.44 | 7.39 36.62 | 39.54 | 39.75 54.00 | 14.25 | Average |
| 4 | 2398.560 29.44 | 7.39 36.62 | 52.86 | 53.07 54.00 | 0.93 | Average |
| 5 | 2400.000 29.44 | 7.43 36.62 | 49.70 | 49.95 54.00 | 4.05 | Average |
| 6 | 2413.200 29.45 | 7.43 36.62 | 99.52 | 99.78 54.00 | -45.78 | Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 77

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

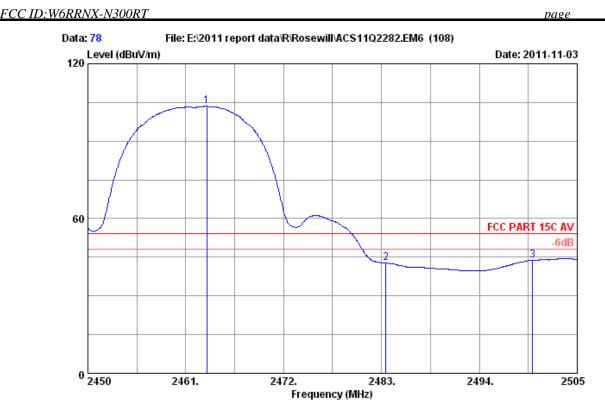
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | |
|---|----------------|-------------|---------|-----------------------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) (dB) | |
| | | | | | |
| 1 | 2460.560 29.48 | 7.54 36.61 | 111.65 | 112.06 74.00 -38.06 | Peak |
| 2 | 2483.500 29.49 | 7.58 36.60 | 52.88 | 53.35 74.00 20.65 | Peak |
| 3 | 2500.000 29.50 | 7.62 36.60 | 53.58 | 54.10 74.00 19.90 | Peak |
| | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 78

Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115(0911)

Limit : FCC PART 15C AV Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

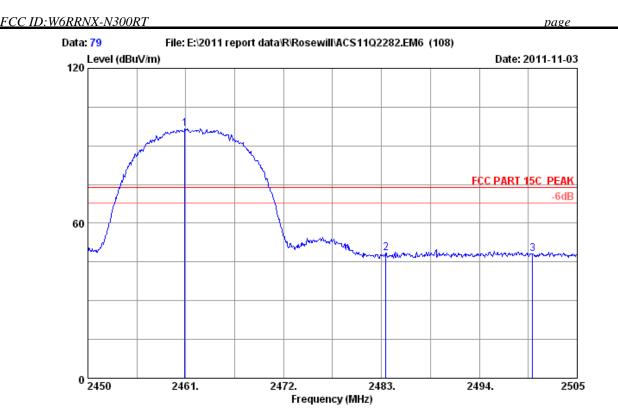
: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11b CH11 2462MHz Tx

M/N: RNX-N300RT

| | Ant. Freq. Factor (MHz) (dB/m) | Cable Amp. loss Factor (dB) (dB) | Reading (dBuV) | Emission Level Limits Marg (dBuV/m) dBuV/m) (dB | • |
|-------------|--|--|--------------------------|---|-------------|
| 1 2 3 | 2463.365 29.48 2483.500 29.49 2500.000 29.50 | 7.58 36.60 | 103.12 42.28 43.30 | 103.53 54.00 -49. 42.75 54.00 11. 43.82 54.00 10. | .25 Average |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 79

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

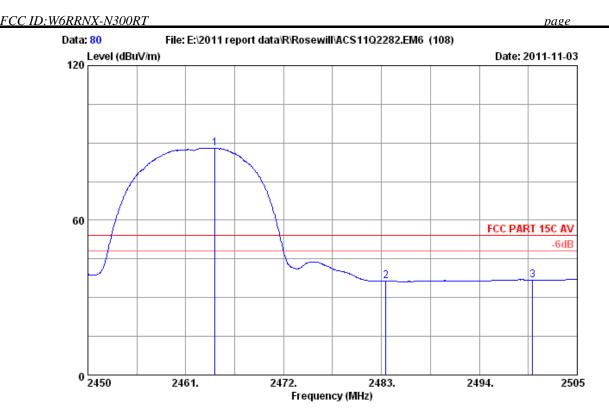
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11b CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | |
|---|----------------|-------------|---------|-----------------------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) (dB) | |
| | | | | | |
| 1 | 2460.890 29.48 | 7.54 36.61 | 96.20 | 96.61 74.00 -22.61 | Peak |
| 2 | 2483.500 29.49 | 7.58 36.60 | 47.94 | 48.41 74.00 25.59 | Peak |
| 3 | 2500.000 29.50 | 7.62 36.60 | 47.74 | 48.26 74.00 25.74 | Peak |
| | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 80

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

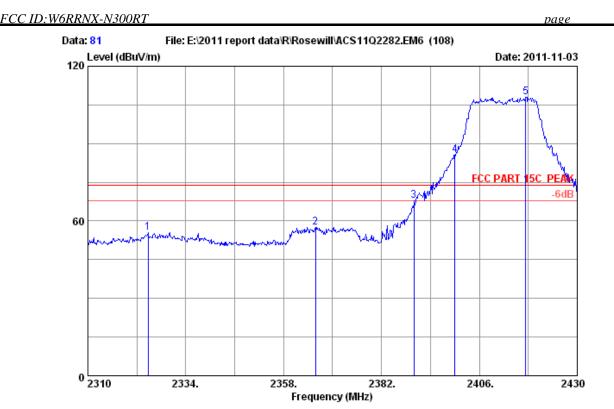
: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11b CH11 2462MHz Tx

: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | |
|---|----------------|-------------|---------|----------------------|------------|
| | Freq. Factor | loss Factor | Reading | Level Limits Marg | in Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) (dB |) |
| | | | | | |
| 1 | 2464.300 29.48 | 7.54 36.61 | 87.64 | 88.05 54.00 -34. | 05 Average |
| 2 | 2483.500 29.49 | 7.58 36.60 | 35.93 | 36.40 54.00 17. | 60 Average |
| 3 | 2500.000 29.50 | 7.62 36.60 | 36.28 | 36.80 54.00 17. | 20 Average |
| | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 81

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

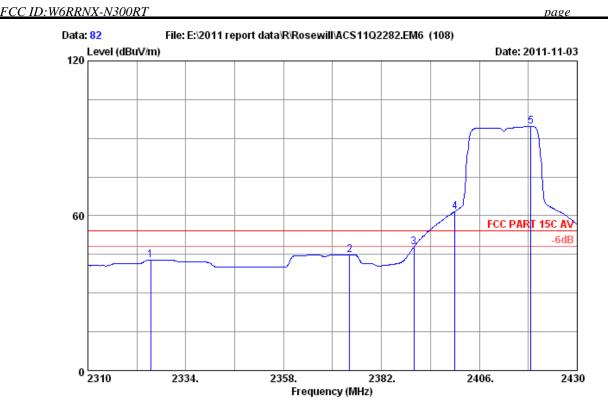
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|---------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/r | n) (dB) | |
| | | | | | | |
| 1 | 2324.760 29.40 | 7.27 36.63 | 55.52 | 55.56 74.00 | 18.44 | Peak |
| 2 | 2365.800 29.42 | 7.35 36.62 | 57.47 | 57.62 74.00 | 16.38 | Peak |
| 3 | 2390.000 29.44 | 7.39 36.62 | 67.60 | 67.81 74.00 | 6.19 | Peak |
| 4 | 2400.000 29.44 | 7.43 36.62 | 85.27 | 85.52 74.00 | -11.52 | Peak |
| 5 | 2417.400 29.45 | 7.43 36.61 | 107.80 | 108.07 74.00 | 34.07 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 82

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

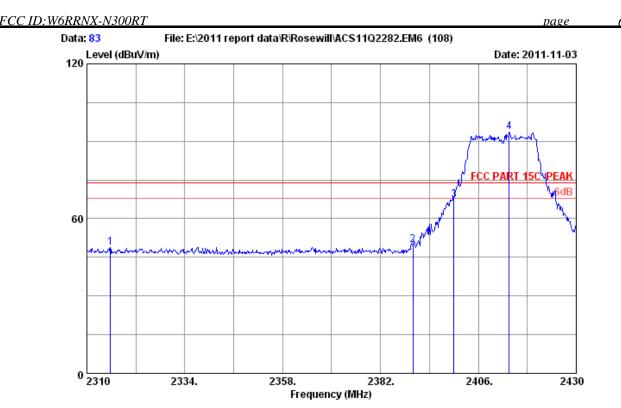
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N : RNX-N300RT

| | Freq. | Ant. Factor (dB/m) | Cable loss (dB) | Amp. Factor (dB) | Reading (dBuV) | Emissi Level (dBuV/m) | Limits | Margin (dB) | Remark |
|---|----------|--------------------------|-----------------------|------------------------|-------------------|-----------------------------|--------|----------------|---------|
| 1 | 2325.360 | 29.40 | 7.27 | 36.63 | 42.77 | 42.81 | 54.00 | 11.19 | Average |
| 2 | 2374.200 | 29.43 | 7.35 | 36.62 | 44.78 | 44.94 | 54.00 | 9.06 | Average |
| 3 | 2390.000 | 29.44 | 7.39 | 36.62 | 47.72 | 47.93 | 54.00 | 6.07 | Average |
| 4 | 2400.000 | 29.44 | 7.43 | 36.62 | 61.42 | 61.67 | 54.00 | -7.67 | Average |
| 5 | 2418.600 | 29.45 | 7.43 | 36.61 | 94.31 | 94.58 | 54.00 | -40.58 | Average |
| | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 83

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

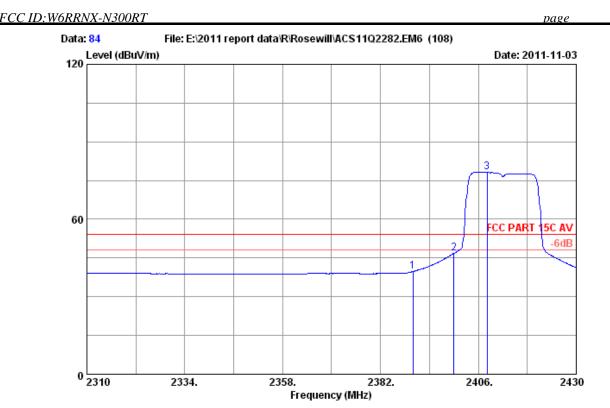
: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH1 2412MHz Tx

M/N: RNX-N300RT

| | Anc | . capie | amp. | | EMISS. | TOH | | | |
|---|--------------|---------|--------|---------|--------|--------|--------|--------|--|
| | Freq. Fact | or loss | Factor | Reading | Level | Limits | Margin | Remark | |
| | (MHz) (dB/ | | (dB) | (dBuV) | | dBuV/m | _ | | |
| | | | | | | | | | |
| 1 | 2315.760 29. | 39 7.24 | 36.63 | 48.97 | 48.97 | 74.00 | 25.03 | Peak | |
| 2 | 2390.000 29. | 44 7.39 | 36.62 | 49.44 | 49.65 | 74.00 | 24.35 | Peak | |
| 3 | 2400.000 29. | 44 7.43 | 36.62 | 66.97 | 67.22 | 74.00 | 6.78 | Peak | |
| 4 | 2413.560 29. | 45 7.43 | 36.62 | 93.21 | 93.47 | 74.00 | -19.47 | Peak | |
| | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 84

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

: FCC PART 15C AV Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

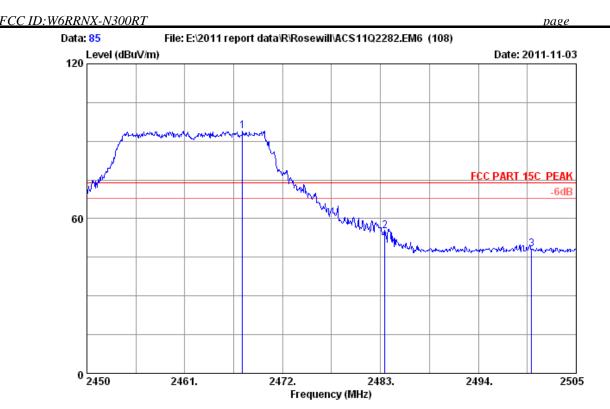
: 300M Wireless N Router EUT

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH1 2412MHz Tx M/N : RNX-N300RT

| | Ant. | Cable Am | ր. | Emission | | |
|---|----------------|----------|-------------|-----------------|--------|---------|
| | Freq. Factor | loss Fac | tor Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB |) (dBuV) | (dBuV/m) dBuV/m |) (dB) | |
| | | | | | | |
| 1 | 2390.000 29.44 | 7.39 36. | 62 39.54 | 39.75 54.00 | 14.25 | Average |
| 2 | 2400.000 29.44 | 7.43 36. | 62 46.54 | 46.79 54.00 | 7.21 | Average |
| 3 | 2408.160 29.45 | 7.43 36. | 62 77.91 | 78.17 54.00 | -24.17 | Average |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 85

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | | |
|---|----------------|-------------|---------|-----------------|---------|--------|--|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/n | n) (dB) | | |
| | | | | | | | |
| 1 | 2467.490 29.48 | 7.54 36.60 | 93.54 | 93.96 74.00 | -19.96 | Peak | |
| 2 | 2483.500 29.49 | 7.58 36.60 | 54.68 | 55.15 74.00 | 18.85 | Peak | |
| 3 | 2500.000 29.50 | 7.62 36.60 | 47.48 | 48.00 74.00 | 26.00 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 86

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

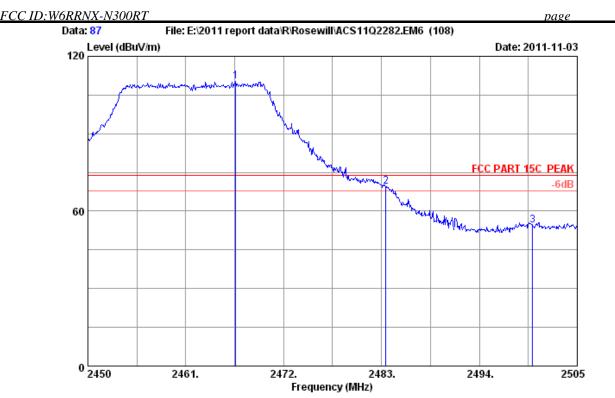
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|----------------|----------|---------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/ | m) (dB) | |
| | | | | | | |
| 1 | 2468.700 29.48 | 7.54 36.60 | 82.80 | 83.22 54.0 | 0 -29.22 | Average |
| 2 | 2483.500 29.49 | 7.58 36.60 | 41.37 | 41.84 54.0 | 0 12.16 | Average |
| 3 | 2500.000 29.50 | 7.62 36.60 | 38.88 | 39.40 54.0 | 0 14.60 | Average |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 87

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

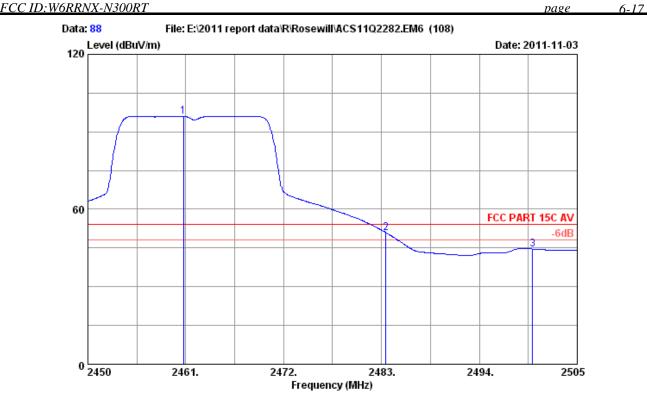
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11g CH11 2462MHz Tx

M/N : RNX-N300RT

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 88

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

: FCC PART 15C AV Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

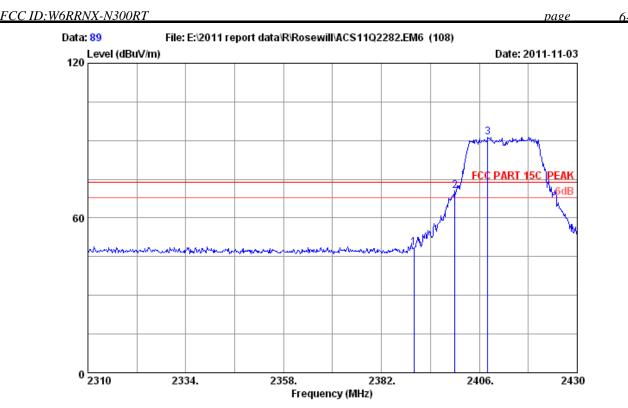
: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11g CH11 2462MHz Tx M/N : RNX-N300RT

| | Ant | t. Cable | Amp. | | Emiss | ion | | |
|---|-------------|----------|--------|---------|----------|-----------|--------|---------|
| | Freq. Fact | tor loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) (dB, | /m) (dB) | (dB) | (dBuV) | (dBuV/m) |) dBuV/m) | (dB) | |
| | | | | | | | | |
| 1 | 2460.725 29 | .48 7.54 | 36.61 | 95.54 | 95.95 | 54.00 | -41.95 | Average |
| 2 | 2483.500 29 | .49 7.58 | 36.60 | 50.47 | 50.94 | 54.00 | 3.06 | Average |
| 3 | 2500.000 29 | .50 7.62 | 36.60 | 44.09 | 44.61 | 54.00 | 9.39 | Average |
| | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 89

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

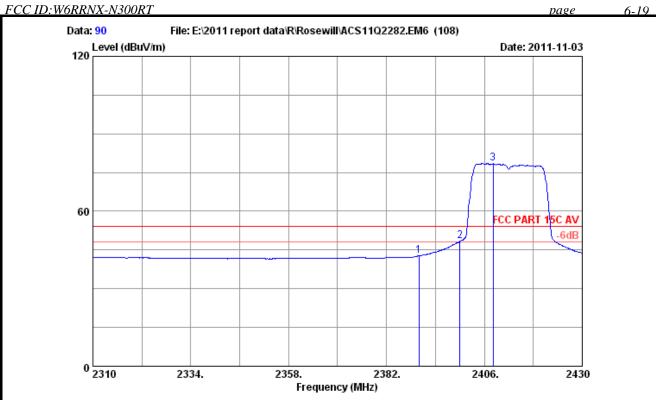
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable | Amp. | | Emiss | ion | | | |
|---|---------------|--------|--------|---------|---------|----------|--------|--------|--|
| | Freq. Facto | r loss | Factor | Reading | Level | Limits | Margin | Remark | |
| | (MHz) (dB/m |) (dB) | (dB) | (dBuV) | (dBuV/m |) dBuV/m | (dB) | | |
| | | | | | | | | | |
| 1 | 2390.000 29.4 | 4 7.39 | 36.62 | 48.39 | 48.60 | 74.00 | 25.40 | Peak | |
| 2 | 2400.000 29.4 | 4 7.43 | 36.62 | 70.22 | 70.47 | 74.00 | 3.53 | Peak | |
| 3 | 2408.040 29.4 | 5 7.43 | 36.62 | 90.93 | 91.19 | 74.00 | -17.19 | Peak | |
| | | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 90

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

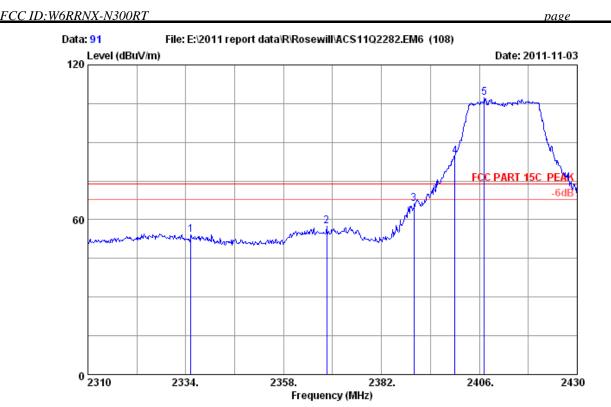
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable | Amp. | | Emiss | ion | | |
|---|----------------|-------|--------|---------|---------|----------|--------|---------|
| | Freq. Factor | loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) | (dB) | (dBuV) | (dBuV/m |) dBuV/m | (dB) | |
| | | | | | | | | |
| 1 | 2390.000 29.44 | 7.39 | 36.62 | 42.51 | 42.72 | 54.00 | 11.28 | Average |
| 2 | 2400.000 29.44 | 7.43 | 36.62 | 48.11 | 48.36 | 54.00 | 5.64 | Average |
| 3 | 2408.160 29.45 | 7.43 | 36.62 | 78.16 | 78.42 | 54.00 | -24.42 | Average |
| | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 91

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

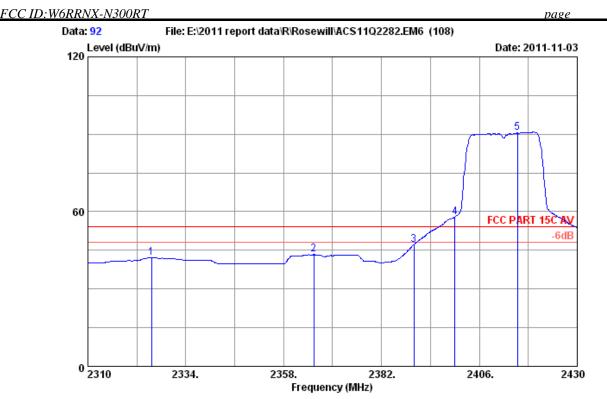
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N : RNX-N300RT

| | Ant. Freq. Factor (MHz) (dB/m) | Cable Amp. loss Factor (dB) (dB) | Reading (dBuV) | Emission Level Limits (dBuV/m) dBuV/ | | Remark | |
|---|--------------------------------------|--|-------------------|--|----------|--------|--|
| 1 | 2335.200 29.41 | 7.27 36.63 | 54.25 | 54.30 74.0 | 0 19.70 | Peak | |
| 2 | 2368.560 29.43 | 7.35 36.62 | 57.17 | 57.33 74.0 | 0 16.67 | Peak | |
| 3 | 2390.000 29.44 | 7.39 36.62 | 65.93 | 66.14 74.0 | 0 7.86 | Peak | |
| 4 | 2400.000 29.44 | 7.43 36.62 | 84.20 | 84.45 74.0 | 0 -10.45 | Peak | |
| 5 | 2407.200 29.45 | 7.43 36.62 | 107.01 | 107.27 74.0 | 0 -33.27 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 92

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

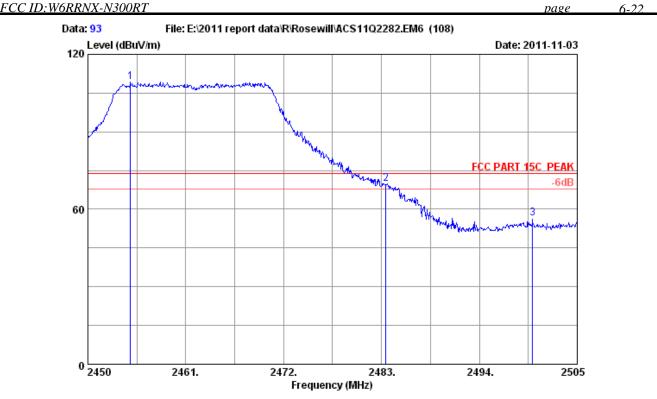
: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11n HT20 CH1 2412MHz Tx

M/N: RNX-N300RT

| | Ant. Freq. Factor (MHz) (dB/m) | Cable Amp. loss Factor (dB) (dB) | Reading (dBuV) | Emission Level Limit (dBuV/m) dBuV | _ | Remark |
|---|--------------------------------------|--|-------------------|--|-----------|---------|
| | | | | | | |
| 1 | 2325.600 29.40 | 7.27 36.63 | 41.96 | 42.00 54. | 00 12.00 | Average |
| 2 | 2365.440 29.42 | 7.35 36.62 | 43.15 | 43.30 54. | 00 10.70 | Average |
| 3 | 2390.000 29.44 | 7.39 36.62 | 47.07 | 47.28 54. | 00 6.72 | Average |
| 4 | 2400.000 29.44 | 7.43 36.62 | 57.72 | 57.97 54. | 00 -3.97 | Average |
| 5 | 2415.360 29.45 | 7.43 36.61 | 90.18 | 90.45 54. | 00 -36.45 | Average |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 93

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

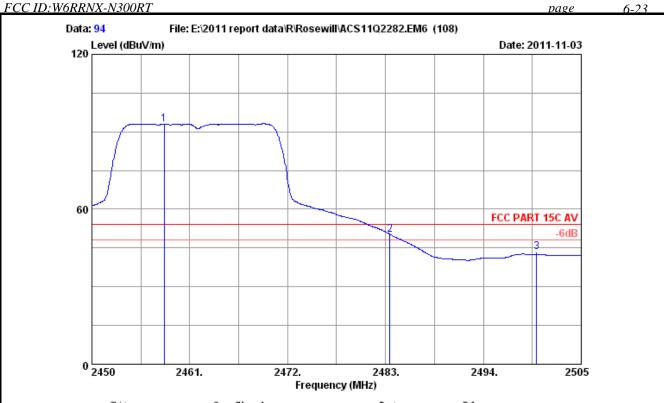
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|------------------|--------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) | (dB) | |
| | | | | | | |
| 1 | 2454.785 29.48 | 7.50 36.61 | 109.09 | 109.46 74.00 | -35.46 | Peak |
| 2 | 2483.500 29.49 | 7.58 36.60 | 69.40 | 69.87 74.00 | 4.13 | Peak |
| 3 | 2500.000 29.50 | 7.62 36.60 | 55.91 | 56.43 74.00 | 17.57 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 94

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

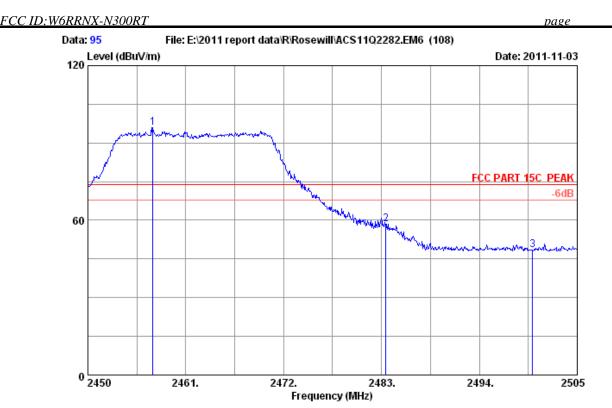
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | | |
|---|----------------|-------------|---------|----------------------|-------------|
| | Freq. Factor | loss Factor | Reading | Level Limits Marq | gin Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) (dI | 3) |
| | | | | | |
| 1 | 2458.140 29.48 | 7.50 36.61 | 92.71 | 93.08 54.00 -39 | .08 Average |
| 2 | 2483.500 29.49 | 7.58 36.60 | 49.80 | 50.27 54.00 3 | .73 Average |
| 3 | 2500.000 29.50 | 7.62 36.60 | 42.90 | 43.42 54.00 10 | .58 Average |
| | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 95

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

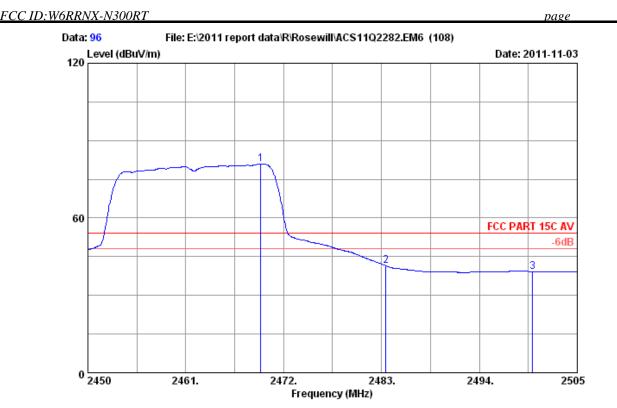
: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | | |
|---|------------------------------|--------------------------|-------------------|--------------------------------|----------|--------|--|
| | Freq. Factor (MHz) (dB/m) | loss Factor (dB) (dB) | Reading (dBuV) | Level Limits (dBuV/m) dBuV/ | _ | Remark | |
| | | | | | | | |
| 1 | 2457.315 29.48 | 7.50 36.61 | 95.46 | 95.83 74.0 | 0 -21.83 | Peak | |
| 2 | 2483.500 29.49 | 7.58 36.60 | 58.14 | 58.61 74.0 | 0 15.39 | Peak | |
| 3 | 2500.000 29.50 | 7.62 36.60 | 47.79 | 48.31 74.0 | 0 25.69 | Peak | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 96

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Leo-Li

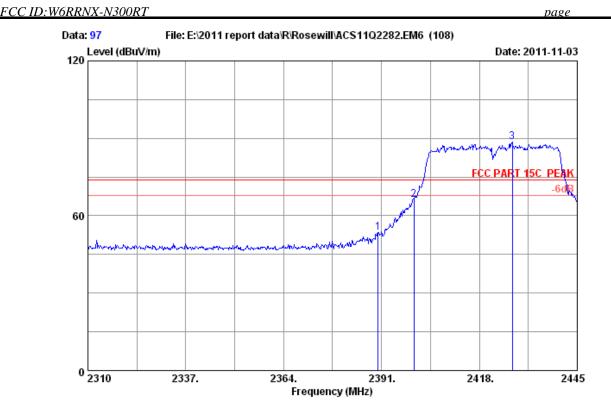
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT20 CH11 2462MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | |
|---|----------------|-------------|---------|---------------------|-------------|
| | Freq. Factor | loss Factor | Reading | Level Limits Mar | gin Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) (d | В) |
| | | | | | |
| 1 | 2469.415 29.48 | 7.54 36.60 | 80.55 | 80.97 54.00 -26 | .97 Average |
| 2 | 2483.500 29.49 | 7.58 36.60 | 40.99 | 41.46 54.00 12 | .54 Average |
| 3 | 2500.000 29.50 | 7.62 36.60 | 38.62 | 39.14 54.00 14 | .86 Average |
| | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 97

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

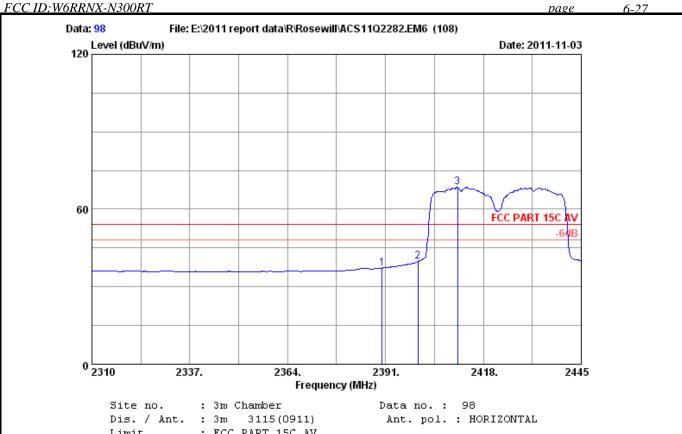
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|---------|--------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/n | n) (dB) | |
| | | | | | | |
| 1 | 2390.000 29.44 | 7.39 36.62 | 53.32 | 53.53 74.00 | 20.47 | Peak |
| 2 | 2400.000 29.44 | 7.43 36.62 | 65.95 | 66.20 74.00 | 7.80 | Peak |
| 3 | 2427.045 29.46 | 7.46 36.61 | 88.15 | 88.46 74.00 | -14.46 | Peak |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



: FCC PART 15C AV Limit

Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

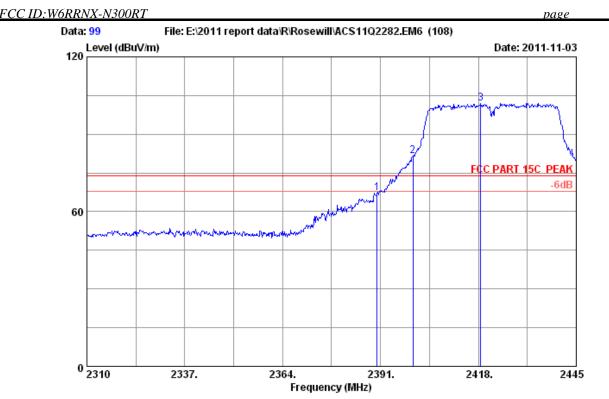
: DC 9V From Adapter Input AC 120V/60Hz Power

Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

: RNX-N300RT M/N

| | Ant. | Cable | Amp. | | Emiss | ion | | |
|---|---------------|---------|--------|---------|----------|----------|--------|---------|
| | Freq. Facto | r loss | Factor | Reading | Level | Limits | Margin | Remark |
| | (MHz) (dB/n | n) (dB) | (dB) | (dBuV) | (dBuV/m) |) dBuV/m | (dB) | |
| | | | | | | | | |
| 1 | 2390.000 29.4 | 4 7.39 | 36.62 | 37.05 | 37.26 | 54.00 | 16.74 | Average |
| 2 | 2400.000 29.4 | 4 7.43 | 36.62 | 39.54 | 39.79 | 54.00 | 14.21 | Average |
| 3 | 2410.845 29.4 | 5 7.43 | 36.62 | 68.18 | 68.44 | 54.00 | -14.44 | Average |
| | | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no.: 99

Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power

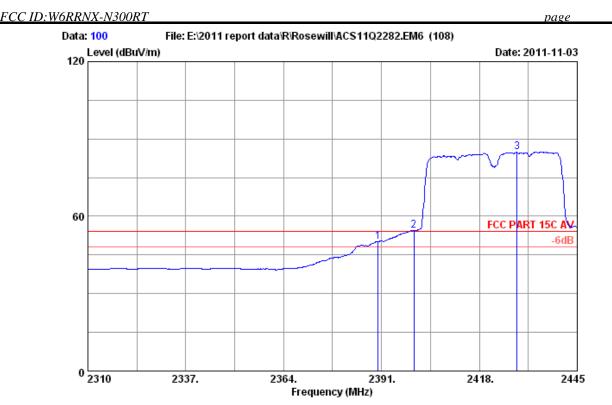
Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

M/N: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | | |
|---|----------------|-------------|---------|----------------|---------|--------|--|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/ | m) (dB) | | |
| | | | | | | | |
| 1 | 2390.000 29.44 | 7.39 36.62 | 66.99 | 67.20 74.0 | 6.80 | Peak | |
| 2 | 2400.000 29.44 | 7.43 36.62 | 81.34 | 81.59 74.0 | 7.59 | Peak | |
| 3 | 2418.675 29.45 | 7.43 36.61 | 101.80 | 102.07 74.0 | 28.07 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

6 - 29



Site no. : 3m Chamber Data no. : 100 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV Env. / Ins. : 23*C/54% Engineer : Leo-Li

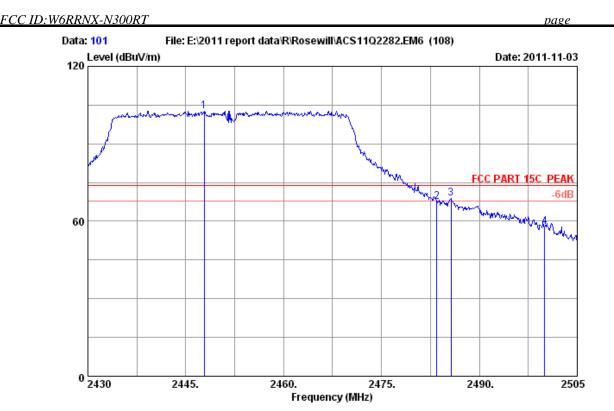
: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT40 CH1 2422MHz Tx

: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|-----------------|---------|---------|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/n | n) (dB) | |
| | | | | | | |
| 1 | 2390.000 29.44 | 7.39 36.62 | 49.81 | 50.02 54.00 | 3.98 | Average |
| 2 | 2400.000 29.44 | 7.43 36.62 | 54.21 | 54.46 54.00 | -0.46 | Average |
| 3 | 2428.395 29.46 | 7.46 36.61 | 84.52 | 84.83 54.00 | -30.83 | Average |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 101
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

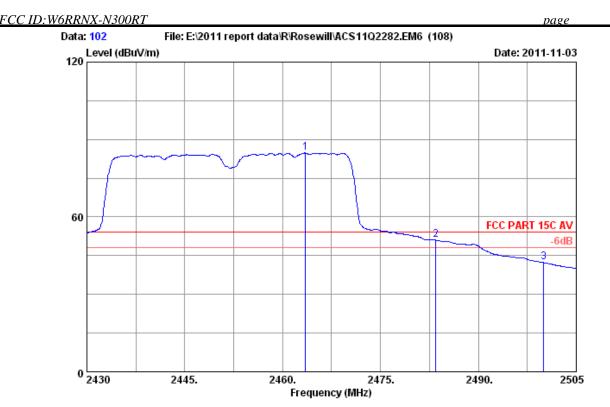
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : RNX-N300RT

| | Ant. Freq. Factor (MHz) (dB/m) | | ump. actor Reading HB) (dBuV) | Emission Level Limits (dBuV/m) dBuV/m | Margin) (dB) | Remark |
|---|--------------------------------------|---------|-------------------------------------|---|------------------|--------|
| 1 | 2447.850 29.47 | 7.50 36 | 5.61 102.36 | 102.72 74.00 | -28.72 | Peak |
| 2 | 2483.500 29.49 | 7.58 36 | 67.13 | 67.60 74.00 | 6.40 | Peak |
| 3 | 2485.650 29.49 | 7.58 36 | 68.28 | 68.75 74.00 | 5.25 | Peak |
| 4 | 2500.000 29.50 | 7.62 36 | 5.60 57.17 | 57.69 74.00 | 16.31 | Peak |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 102
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Leo-Li

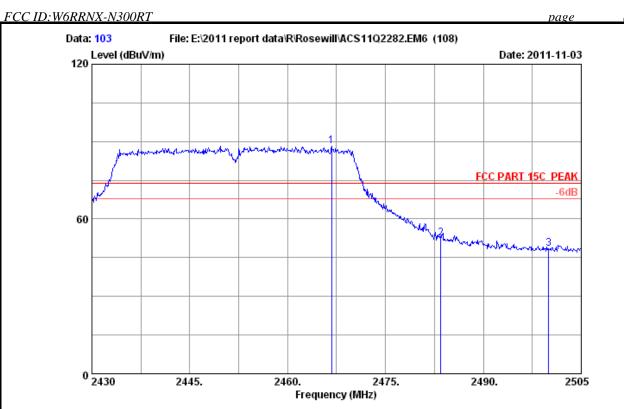
EUT : 300M Wireless N Router

Power : DC 9V From Adapter Input AC 120V/60Hz Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | |
|---|----------------|-------------|---------|------------------|--------|---------|
| | Freq. Factor | loss Factor | Reading | Level Limits 1 | Margin | Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) | (dB) | |
| | | | | | | |
| 1 | 2463.525 29.48 | 7.54 36.61 | 84.33 | 84.74 54.00 - | -30.74 | Average |
| 2 | 2483.500 29.49 | 7.58 36.60 | 50.53 | 51.00 54.00 | 3.00 | Average |
| 3 | 2500.000 29.50 | 7.62 36.60 | 41.77 | 42.29 54.00 | 11.71 | Average |
| | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 103

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

EUT : 300M Wireless N Router

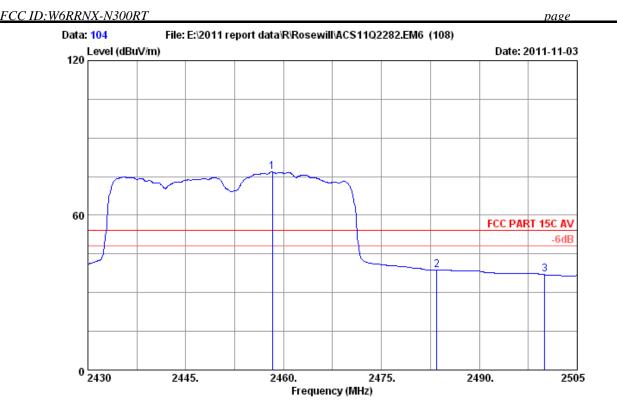
Power : DC 9V From Adapter Input AC 120V/60Hz

Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

M/N : RNX-N300RT

| | Ant. | Cable Amp. | | Emission | | | |
|---|----------------|-------------|---------|-----------------|--------|--------|--|
| | Freq. Factor | loss Factor | Reading | Level Limits | Margin | Remark | |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m |) (dB) | | |
| | | | | | | | |
| 1 | 2466.750 29.48 | 7.54 36.60 | 87.81 | 88.23 74.00 | -14.23 | Peak | |
| 2 | 2483.500 29.49 | 7.58 36.60 | 51.88 | 52.35 74.00 | 21.65 | Peak | |
| 3 | 2500.000 29.50 | 7.62 36.60 | 48.02 | 48.54 74.00 | 25.46 | Peak | |
| | | | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 104

Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV Env. / Ins. : 23*C/54% Engineer : Leo-Li

: 300M Wireless N Router

: DC 9V From Adapter Input AC 120V/60Hz Power Test mode : IEEE802.11n HT40 CH7 2452MHz Tx

: RNX-N300RT

| | Ant. | Cable Amp. | | Emission | |
|---|----------------|-------------|---------|-----------------------|-----------|
| | Freq. Factor | loss Factor | Reading | Level Limits Margin | n Remark |
| | (MHz) (dB/m) | (dB) (dB) | (dBuV) | (dBuV/m) dBuV/m) (dB) | |
| | | | | | |
| 1 | 2458.275 29.48 | 7.50 36.61 | 76.40 | 76.77 54.00 -22.7 | 7 Average |
| 2 | 2483.500 29.49 | 7.58 36.60 | 38.29 | 38.76 54.00 15.24 | ł Average |
| 3 | 2500.000 29.50 | 7.62 36.60 | 36.44 | 36.96 54.00 17.0 | ł Average |
| | | | | | |

- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.



FCC ID:W6RRNX-N300RT page 7-1

7. 6dB Bandwidth Test

7.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. |
|------|----------------------|--------------|-------------|------------|-----------|----------|
| | | | | | | Interval |
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08,11 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08,11 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08,11 | 1Year |

7.2.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3.Test Procedure

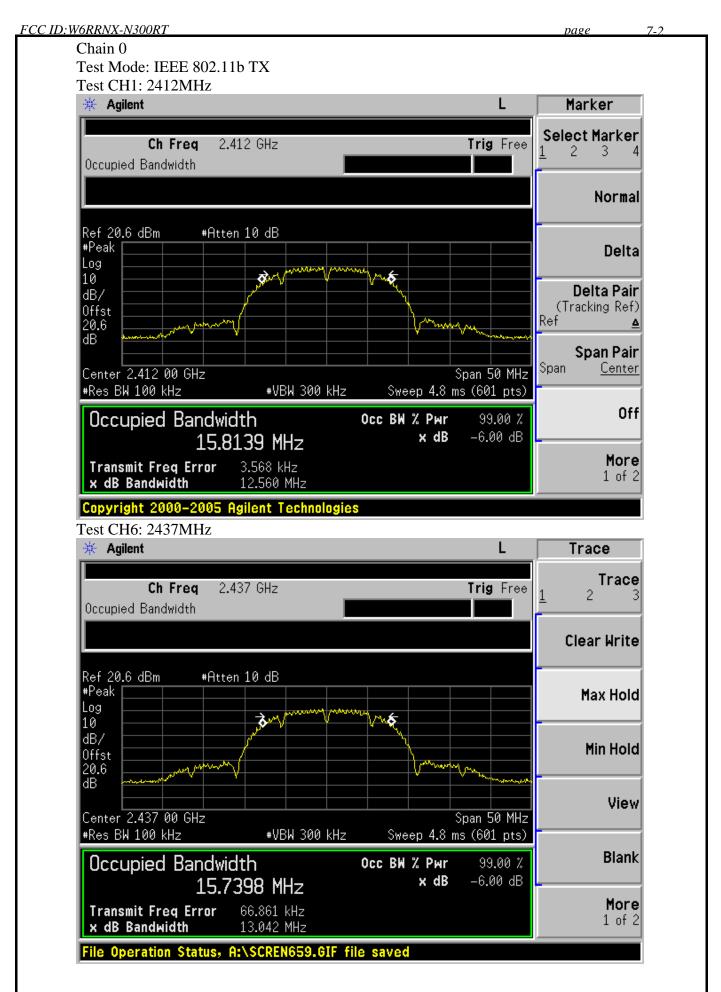
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

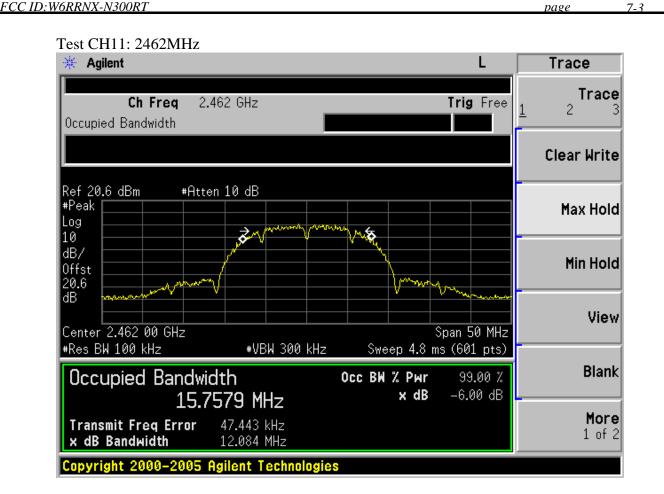
| EUT: 300M Wireless N Router | | | | |
|-----------------------------|---------------------|---------------------|--|--|
| M/N: RNX-N300RT | | | | |
| Test date: 2011-11-03 | Pressure: 100.6 kpa | Humidity: 56 % | | |
| Tested by: Sunny-lu | Test site: RF Site | Temperature : 25 °C | | |

| Cable loss: | 0.6 dB | Attenuator loss: 20 dB | Antenna Gain: 5.0 dBi | | |
|------------------|--------|------------------------|-----------------------|-------|--|
| | | Re | | | |
| Test | СН | Chain0 | Chain1 | Limit | |
| Mode | | 6dB bandwidth | 6dB bandwidth | (KHz) | |
| | | (MHz) | (MHz) | | |
| | CH1 | 12.560 | 12.134 | >500 | |
| 11b | CH6 | 13.042 | 12.113 | >500 | |
| | CH11 | 12.084 | 12.607 | >500 | |
| | CH1 | 16.520 | 16.605 | >500 | |
| 11g | CH6 | 16.567 | 16.550 | >500 | |
| | CH11 | 16.590 | 16.601 | >500 | |
| 11 | CH1 | 17.791 | 17.780 | >500 | |
| 11n HT20 | CH6 | 17.715 | 17.751 | >500 | |
| 11120 | CH11 | 17.698 | 17.752 | >500 | |
| 11 | CH1 | 36.389 | 36.403 | >500 | |
| 11n HT40 | CH4 | 36.171 | 36.125 | >500 | |
| 11140 | CH7 | 36.433 | 36.184 | >500 | |
| Conclusion: PASS | | | | | |

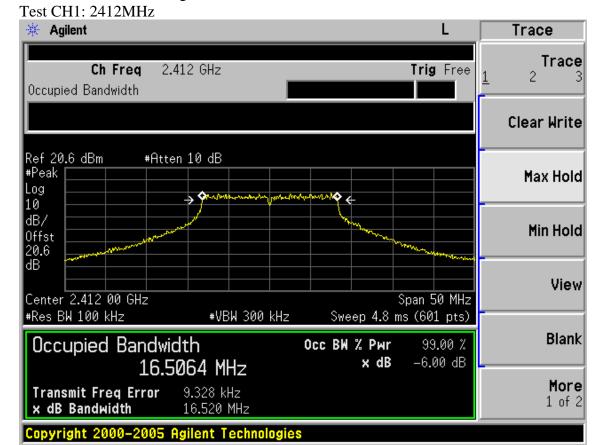








Test Mode: IEEE 802.11g TX



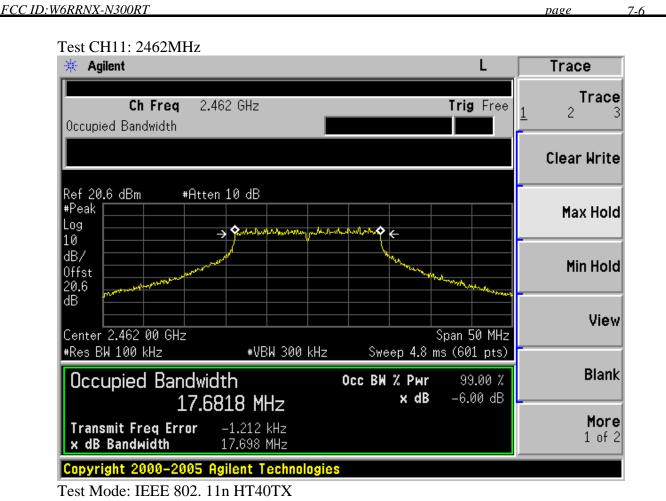


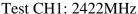


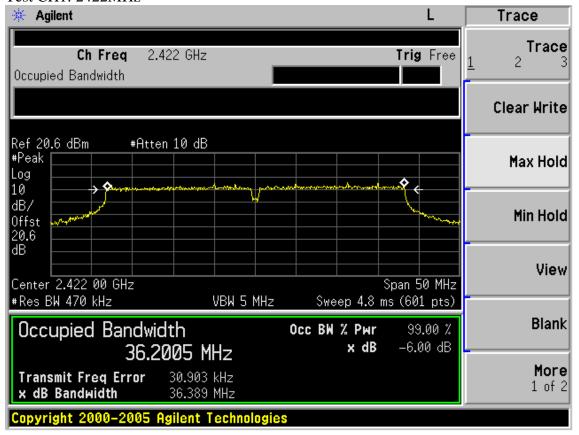








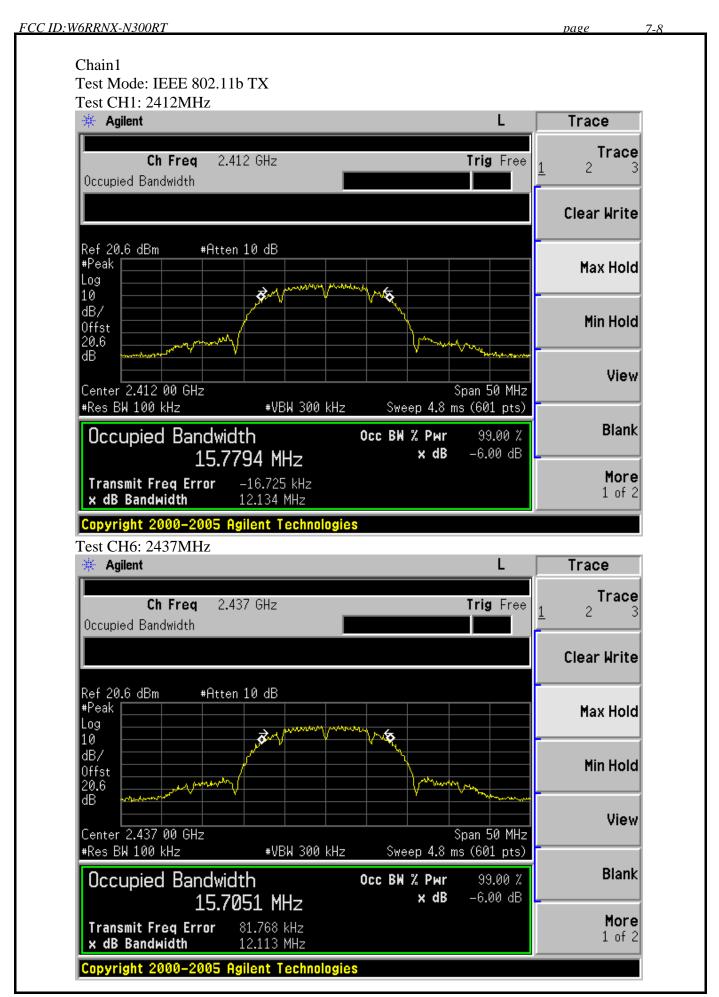




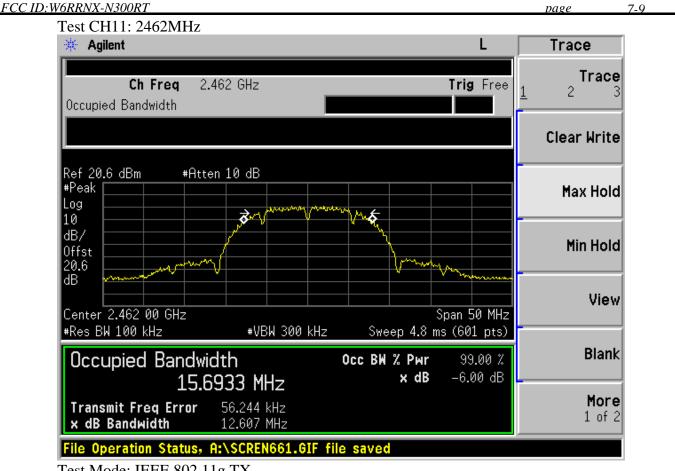






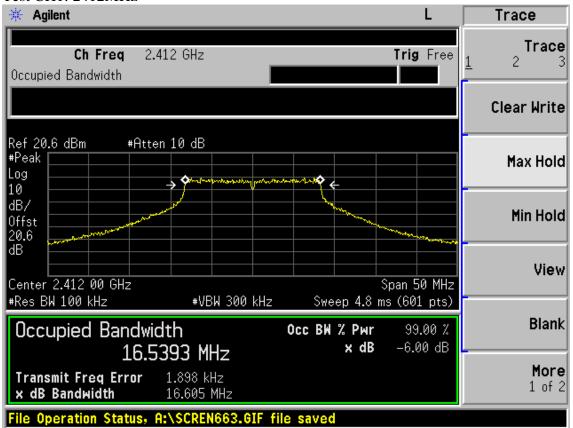






Test Mode: IEEE 802.11g TX

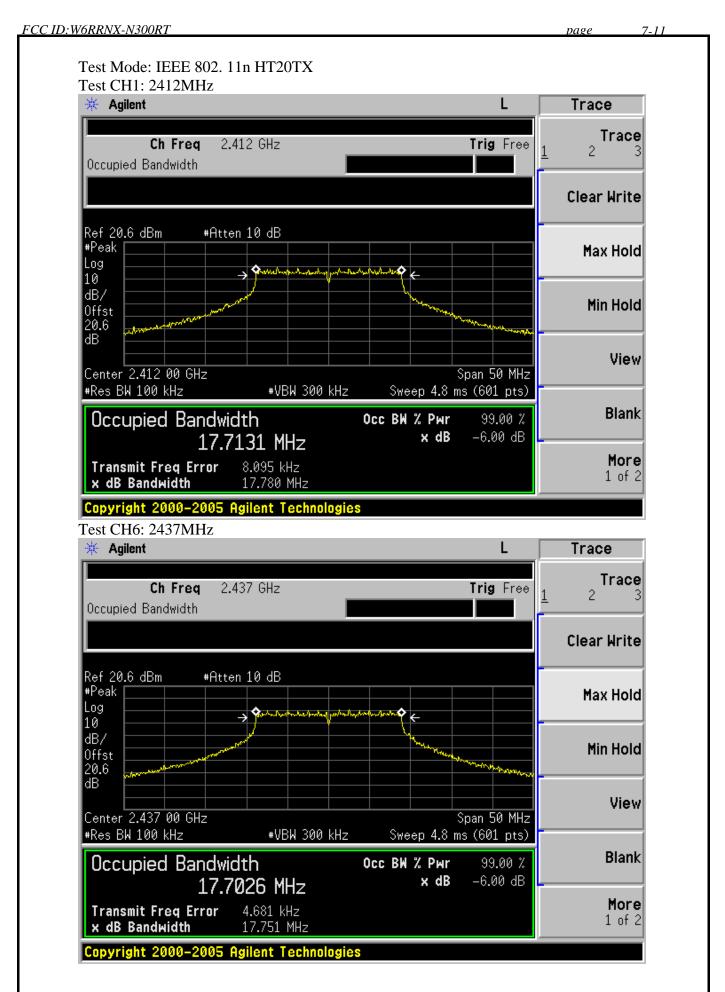
Test CH1: 2412MHz



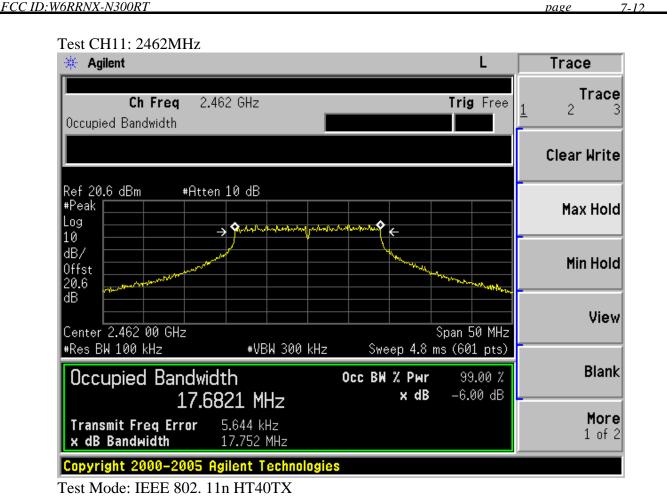


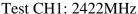


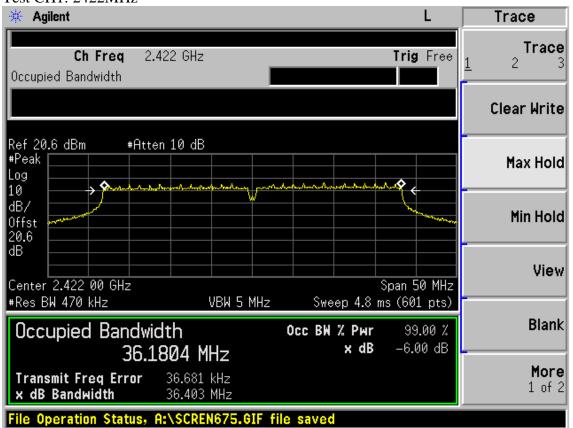




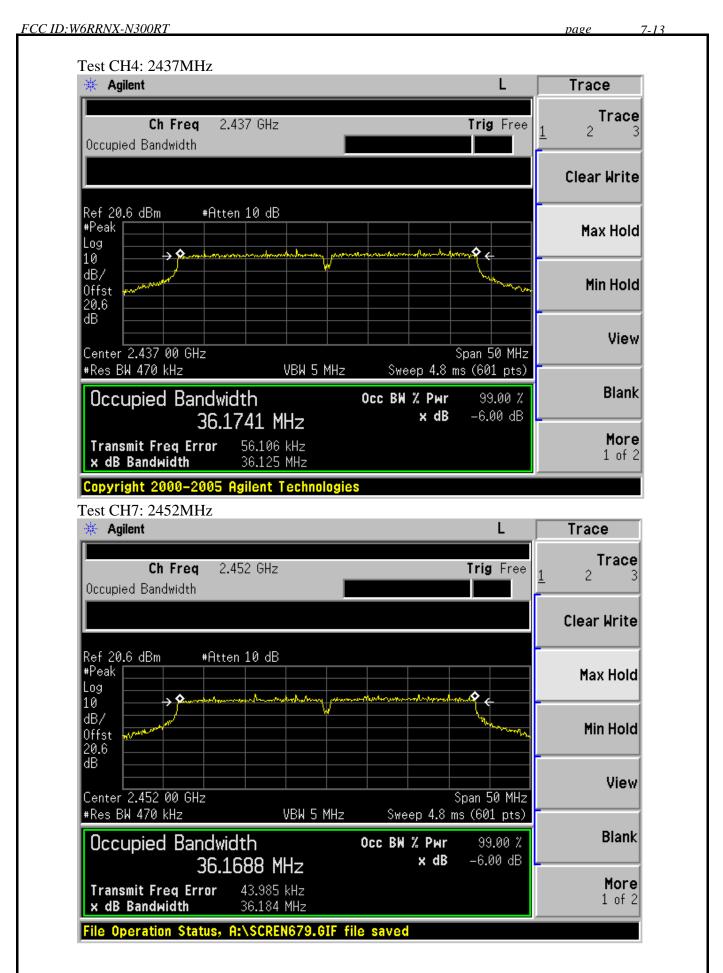














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8. OUTPUT POWER TEST

8.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------|--------------|-------------|------------|------------|---------------|
| 1. | Power meter | Anritsu | ML2487A | 6K00002472 | May.08,11 | 1Year |
| 2. | Power sensor | Anritsu | MA2491A | 0033005 | May.08,11 | 1Year |
| 3 | Attenuator | Agilent | 8491B | MY39262165 | May.08,11 | 1 Year |
| 4 | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 11 | 1 Year |
| 5 | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08,11 | 1Year |

8.2.Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

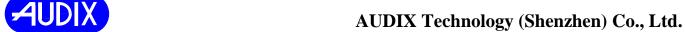
8.3.Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So Bandwidth correction method according to ANSI C63.10 clause 6.10.2.1 part (c) was used:
 - 1) Set the RBW=3MHz and VBW =8MHz
 - 2) Turn averaging off
 - 3) Set sweep to automatic
 - 4) Set the span just large enough to capture the emission
 - 5) Use a peak detector on max hold
 - 6) Record the measured power
 - 7) Calculate Output power of EUT use the formula:

Peak output power = measured power+ 10log[(26dB bandwidth of emission)/(analyzer RBW)]

4, For IEEE802.11n mode, it's MIMO technology, so account total PK output power by add each chain's PK output power.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



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8.4. Test Results

| EUT: 300M Wireless N Router | | | | | | |
|-----------------------------|---------------------|------------------|--|--|--|--|
| M/N: RNX-N300RT | | | | | | |
| Test date: 2011-11-03 | Pressure: 101.7 kpa | Humidity: 54 % | | | | |
| Tested by: Leo-Li | Test site: RF site | Temperature:25 ℃ | | | | |

| ~ | | | | | 0.15 | | |
|--------------|----------------|--------|-------------------------|-------|-------|--|--|
| Ca | ble loss: 1 dB | | Attenuator loss: 20 dB | | | | |
| Test Mode | CH (MHz) | Peak | Peak output Power (dBm) | | | | |
| | , , | Chain0 | Chain1 | Total | (dBm) | | |
| | CH1 | 20.07 | 19.98 | N/A | 30 | | |
| 11b | СН6 | 20.38 | 19.83 | N/A | 30 | | |
| | CH11 | 20.05 | 19.62 | N/A | 30 | | |
| | CH1 | 20.45 | 20.29 | N/A | 30 | | |
| 11g | СН6 | 22.36 | 22.08 | N/A | 30 | | |
| | CH11 | 20.11 | 19.81 | N/A | 30 | | |
| 1.1 | CH1 | 20.18 | 19.07 | 22.69 | 30 | | |
| 11n HT20 | СН6 | 20.23 | 21.84 | 24.14 | 30 | | |
| П120 | CH11 | 20.27 | 19.51 | 22.94 | 30 | | |

| | | Result | | | | | Limit |
|--------------|-----|--------------------------|---------------|-------|--------|-------|-------|
| Test Mode | СН | Measured power(dBm)/3MHz | | 1 1 | | | (dBm) |
| | | Chain0 | Chain0 Chain1 | | Chain1 | Total | |
| 11n | CH3 | 6.73 | 6.52 | 19.05 | 18.80 | 21.94 | 30 |
| HT40 | CH6 | 11.31 | 10.25 | 23.63 | 22.53 | 26.13 | 30 |
| | CH9 | 6.60 | 6.10 | 18.92 | 18.38 | 21.67 | 30 |

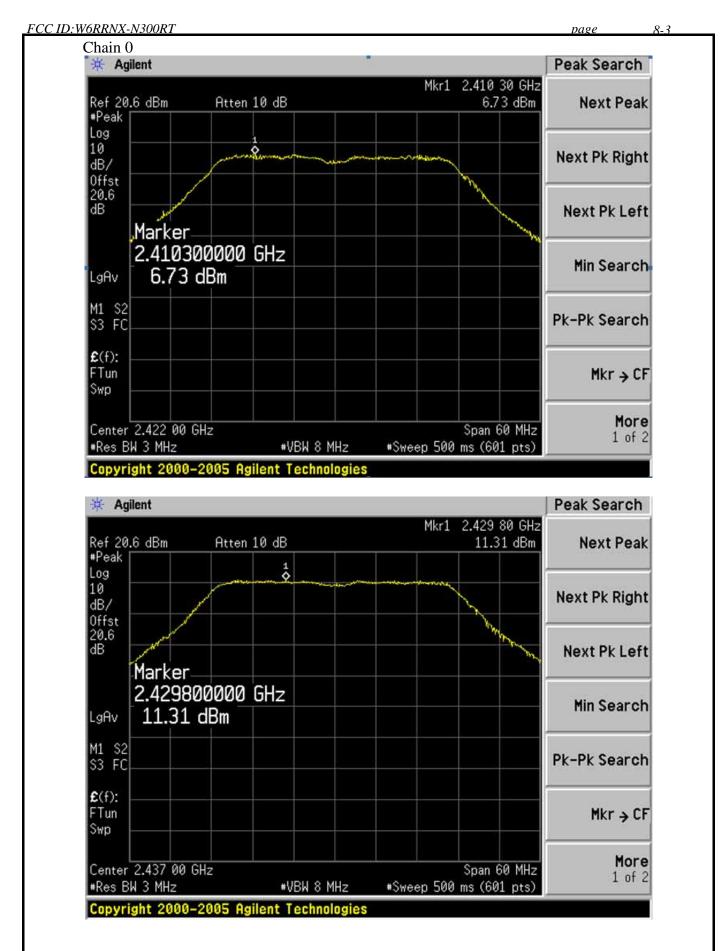
Chain 0 26dB Bandwidth for 11n HT40: 51.216MHz Chain 1 26dB Bandwidth for 11n HT40: 50.715MHz

Chain 0 BW correction factor = $10\log[(51.216\text{MHz})/(3\text{MHz})] = 12.32\text{dB}$

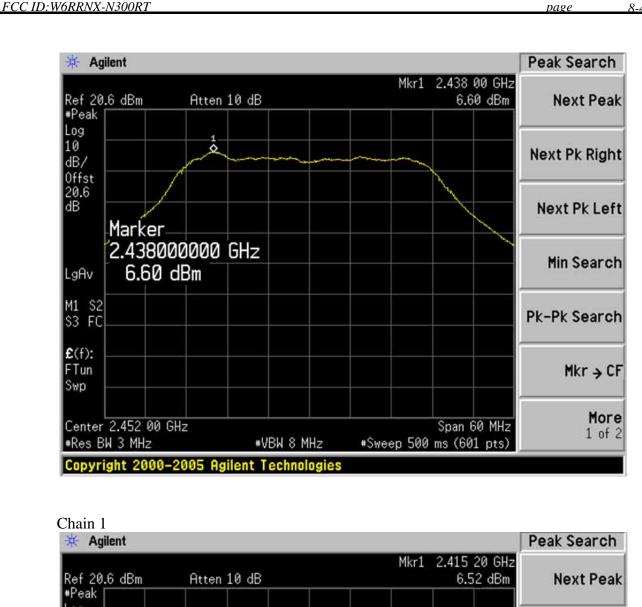
Chain 1 BW correction factor = $10\log[(50.715\text{MHz})/(3\text{MHz})] = 12.28\text{dB}$

Conclusion: PASS







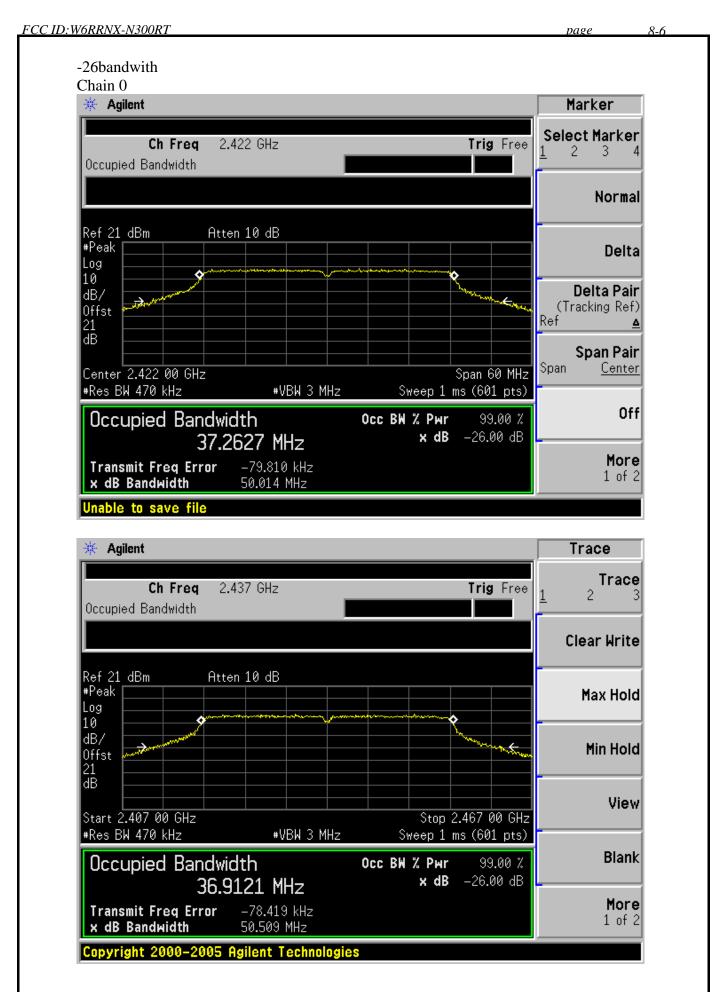




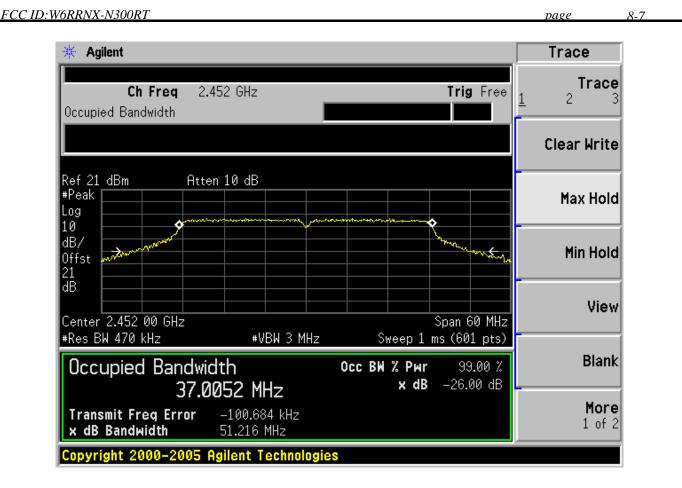




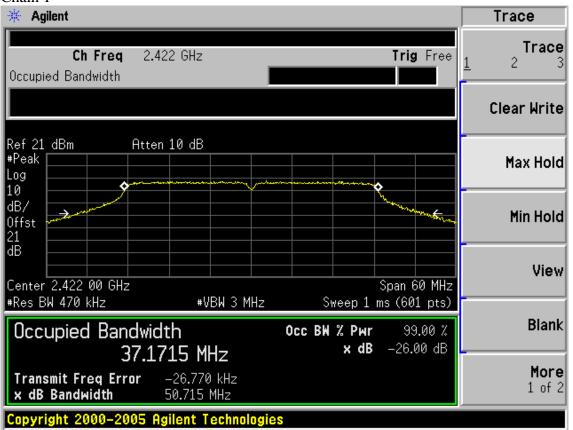








Chain 1









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9. POWER SPECTRAL DENSITY TEST

9.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------|--------------|-------------|------------|------------|---------------|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | May.08, 11 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39262165 | May.08, 11 | 1 Year |
| 3. | RF Cable | Hubersuhner | SUCOFLEX102 | 28618/2 | May.08, 11 | 1Year |

9.2.Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3.Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.



AUDIX Technology (Shenzhen) Co., Ltd.

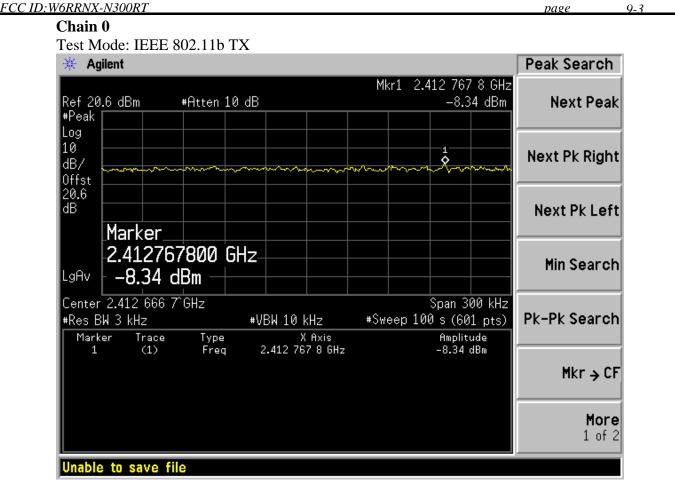
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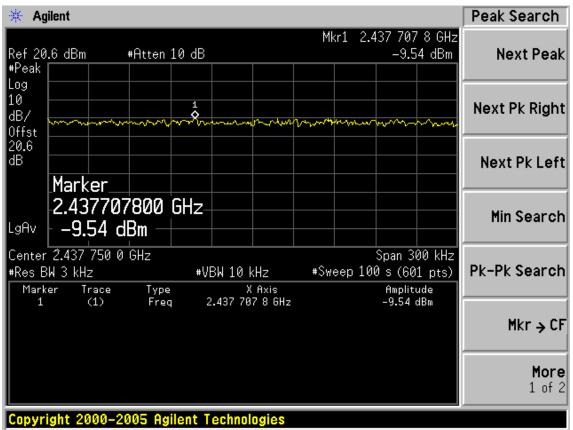
9.4.Test Results

| EUT:300M Wireless N Router | | | | | |
|---|-------------------|--------------|--|--|--|
| M/N: RNX-N300RT | | | | | |
| Test date:2011-11-04 | Pressure:100.6kpa | Humidity:60% | | | |
| Tested by:Sunny-lu Test site: RF site Temperature : 25℃ | | | | | |

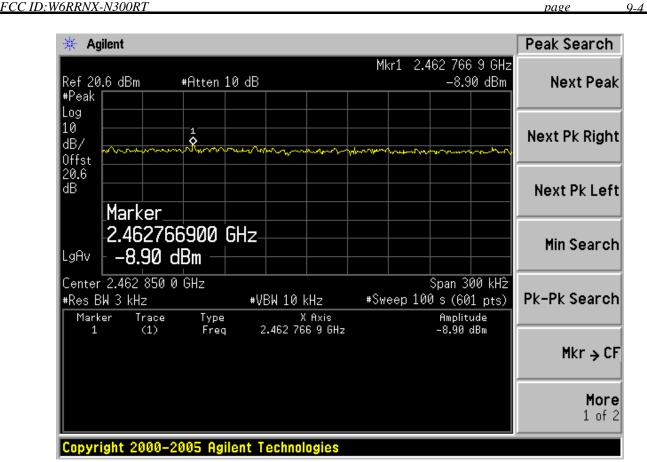
| Cable loss:0.6dB | | Attenuator loss: 2 | 20dB | Antenna Gain: 5.0dBi | | |
|------------------|------|--------------------|---------------|----------------------|------------|--|
| | | | Result | • | Limit | |
| Mode | СН | Chain0 | Chain1 | Total | | |
| Wiode | CII | Power density | Power density | Power density | (dBm/3KHz) | |
| | | (dBm/3KHz) | (dBm/3KHz) | (dBm/3KHz) | | |
| | CH1 | -8.34 | -8.59 | N/A | 8 | |
| 11b | CH6 | -9.54 | -9.80 | N/A | 8 | |
| | CH11 | -8.90 | -10.25 | N/A | 8 | |
| | CH1 | -13.15 | -13.48 | N/A | 8 | |
| 11g | CH6 | -9.31 | -11.49 | N/A | 8 | |
| | CH11 | -12.83 | -12.53 | N/A | 8 | |
| 11 | CH1 | -13.27 | -13.82 | -10.53 | 8 | |
| 11n HT20 | CH6 | -9.39 | -11.61 | -7.35 | 8 | |
| H120 | CH11 | -14.34 | -13.14 | -10.69 | 8 | |
| 11 | CH1 | -18.65 | -17.59 | -15.08 | 8 | |
| 11n HT40 | CH5 | -12.83 | -14.30 | -10.49 | 8 | |
| П140 | CH9 | -14.47 | -18.21 | -12.94 | 8 | |
| Conclusion: l | PASS | | | | | |



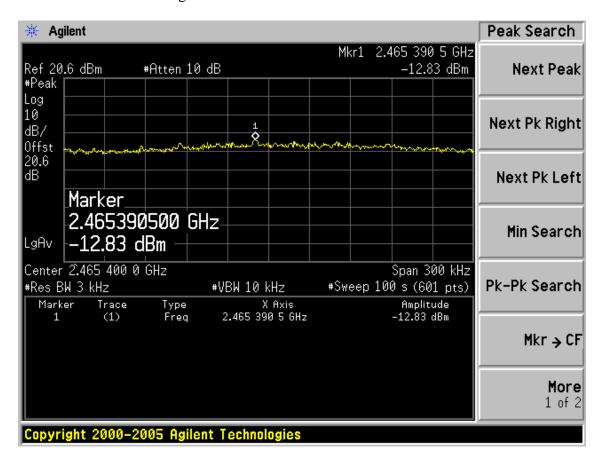




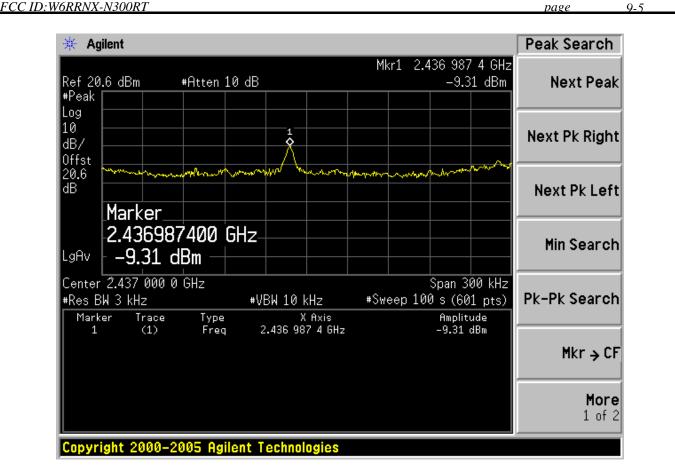


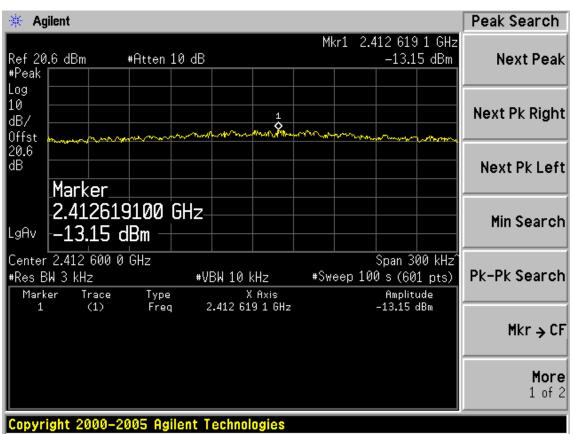


Test Mode: IEEE 802.11g TX

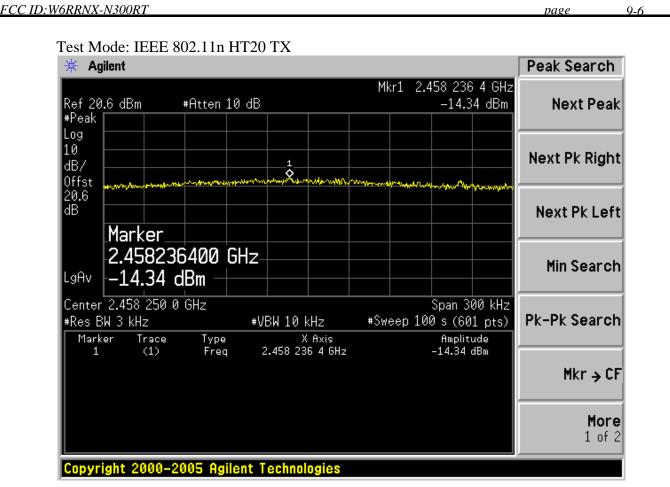


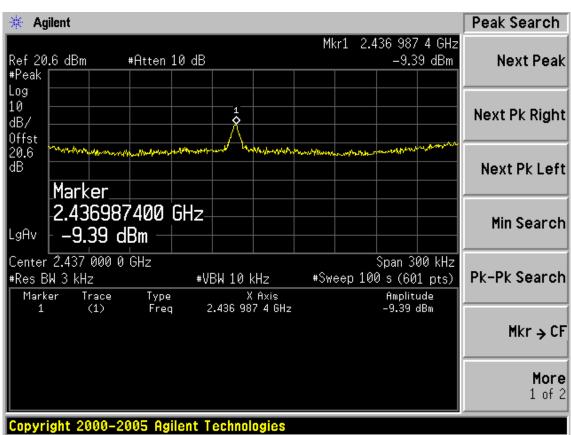




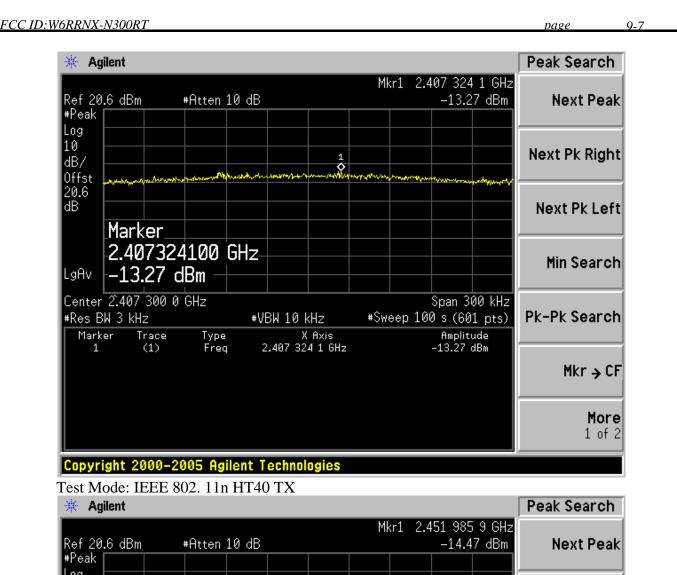


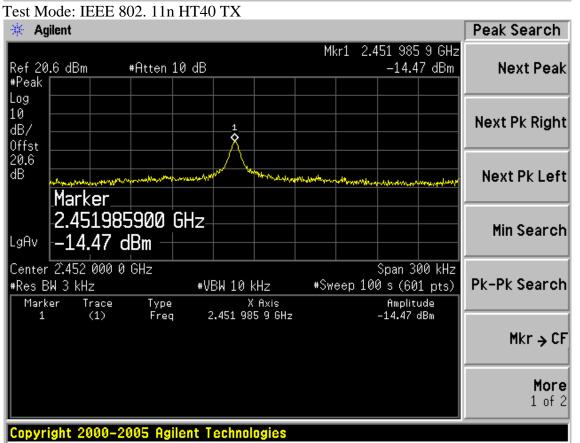




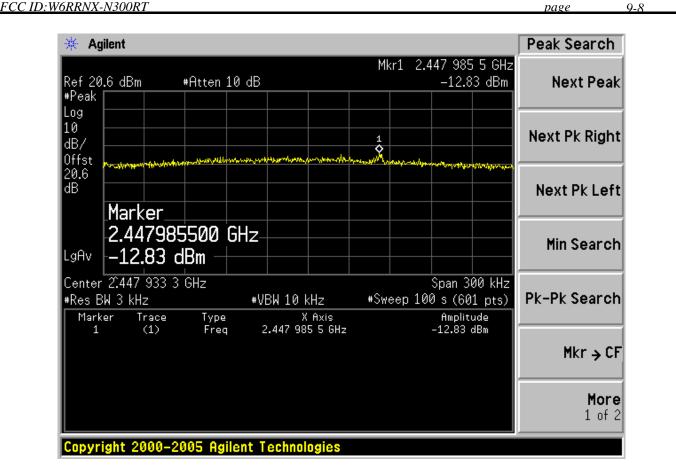


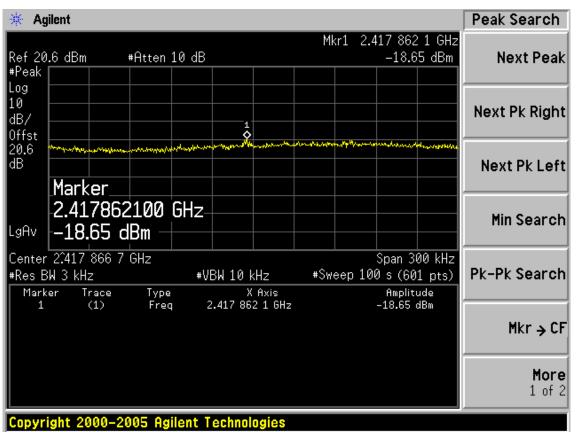




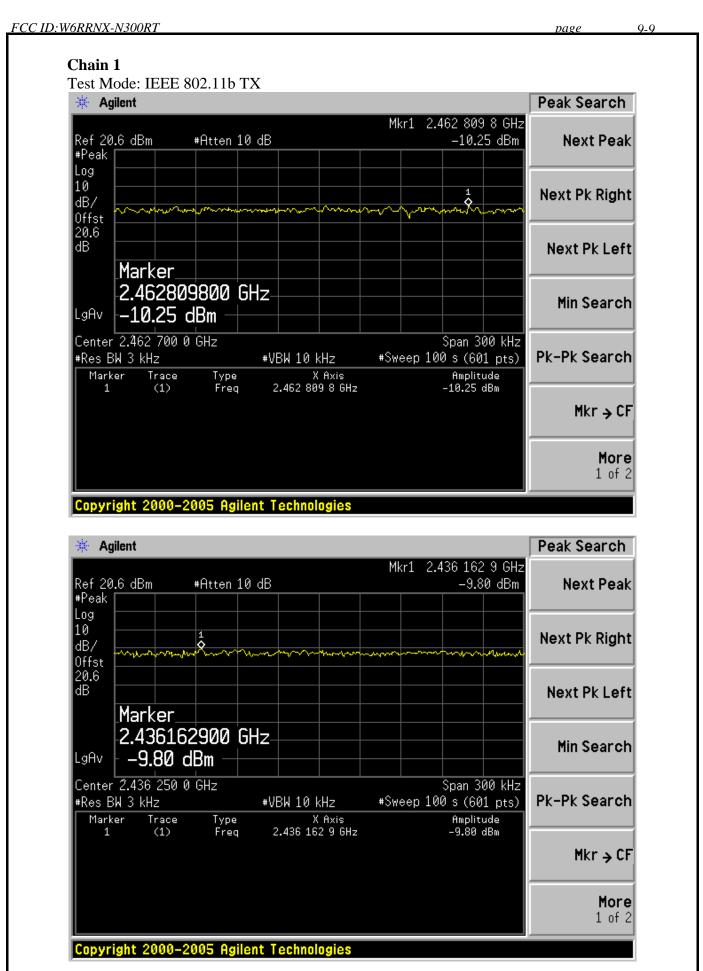




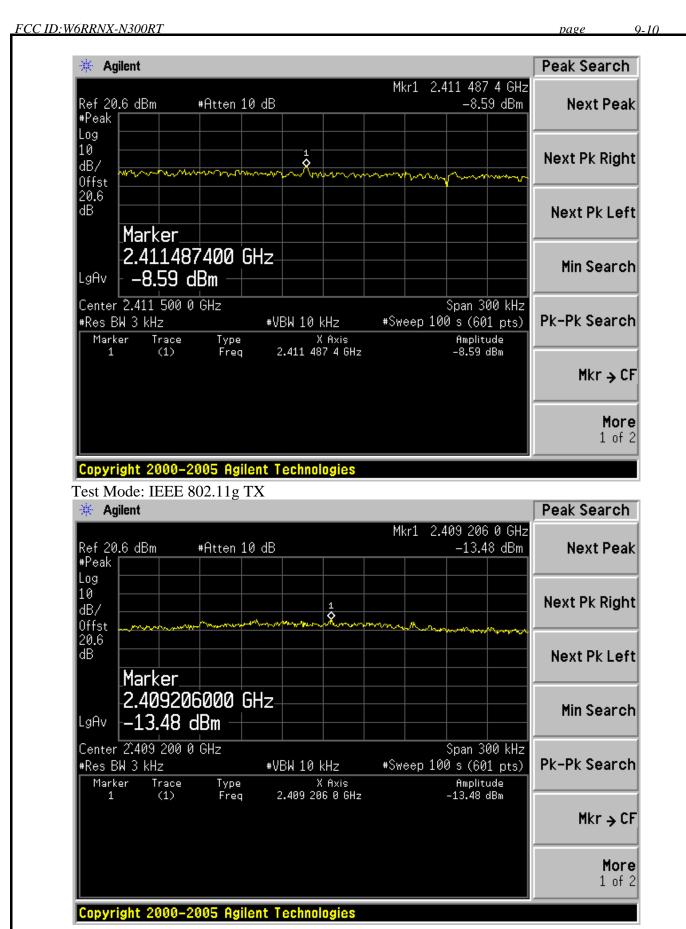




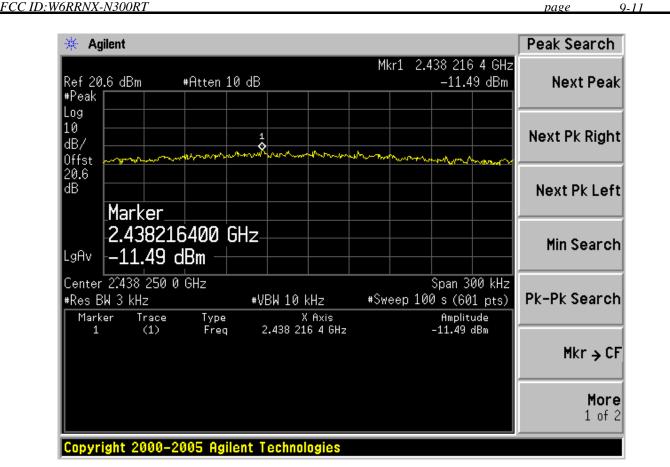


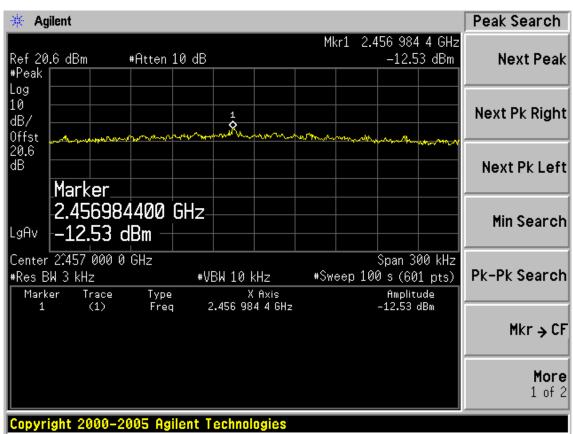




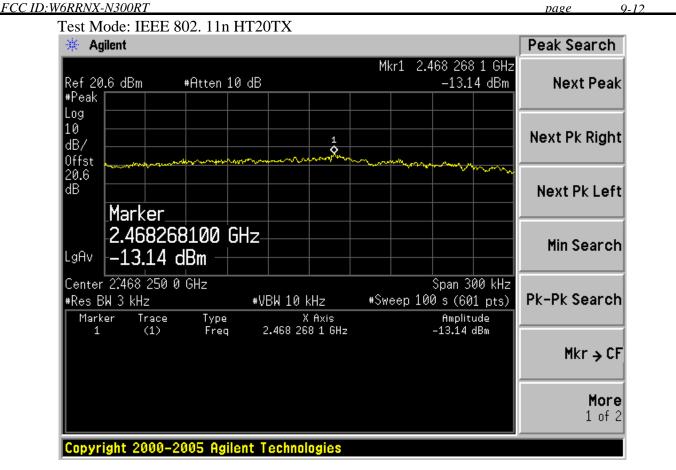


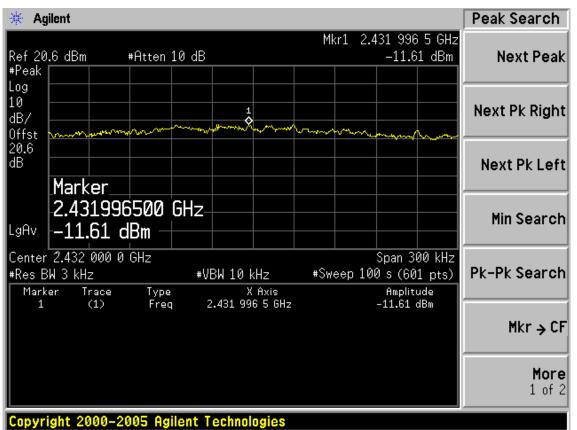




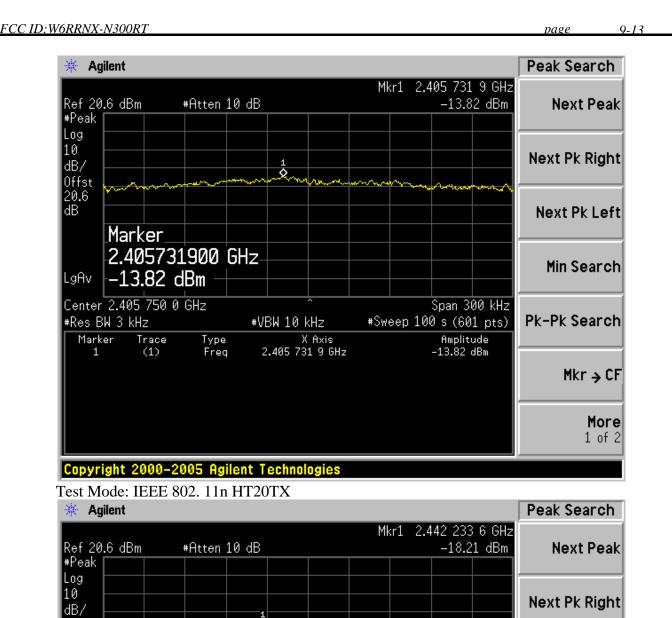


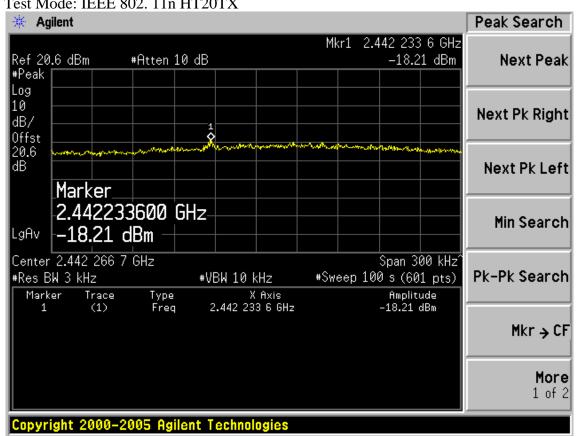




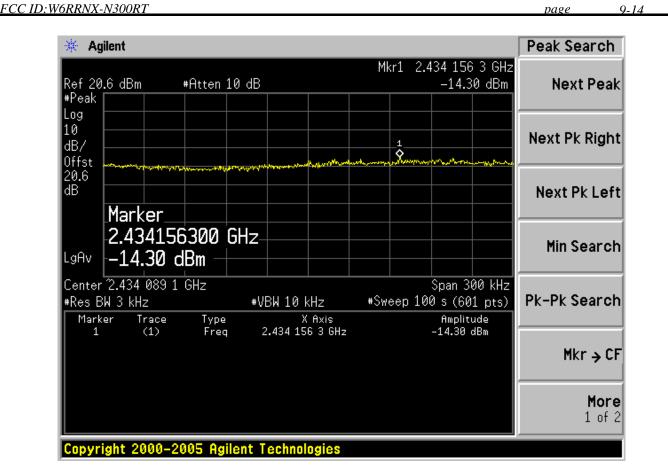


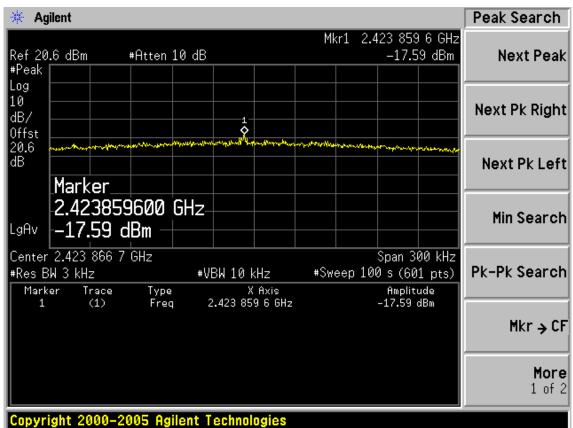














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10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are MIMO 2X2 dipole antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 5dBi.



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11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

| Frequency | Power density (mW/ cm ²) | Averaging time(minutes) |
|--------------|--------------------------------------|-------------------------|
| 300MHz1.5GHz | F/1500 | 30 |
| 1.5GHz100GHz | 1.0 | 30 |

| Frequency(MHz) | Power density (mW/cm ²) | Averaging time(minutes) |
|----------------|-------------------------------------|-------------------------|
| 2412 | 1 | 30 |
| 2437 | 1 | 30 |
| 2462 | 1 | 30 |

Note: F= Frequency in MHz

11.2.2, Estimation Result

| Mode | СН | Frequency (MHz) | PK Output power (dBm) | Output power (mW) | Antenna Gain (dBi) | Antenna Gain(linear) | MPE |
|-------------|----|-----------------|-----------------------------|-------------------------|--------------------------|-------------------------|--------|
| | 1 | 2412 | 23.13 | 205.59 | 5 | 3.16 | 0.1294 |
| 11b | 6 | 2437 | 23.26 | 211.84 | 5 | 3.16 | 0.1333 |
| | 11 | 2462 | 23.00 | 199.53 | 5 | 3.16 | 0.1256 |
| | 1 | 2412 | 23.54 | 225.94 | 5 | 3.16 | 0.1422 |
| 11g | 6 | 2437 | 25.37 | 344.35 | 5 | 3.16 | 0.2167 |
| | 11 | 2462 | 23.08 | 203.24 | 5 | 3.16 | 0.1279 |
| 11 | 1 | 2412 | 22.79 | 190.11 | 5 | 3.16 | 0.1197 |
| 11n HT20 | 6 | 2437 | 25.22 | 332.66 | 5 | 3.16 | 0.2094 |
| П120 | 11 | 2462 | 23.07 | 202.77 | 5 | 3.16 | 0.1276 |
| 1.1 | 1 | 2422 | 21.94 | 156.31 | 5 | 3.16 | 0.0984 |
| 11n HT40 | 4 | 2437 | 26.13 | 410.20 | 5 | 3.16 | 0.2582 |
| 11140 | 7 | 2452 | 21.67 | 146.89 | 5 | 3.16 | 0.0925 |

Note: The estimation distance is 20cm



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|-------------------------------------|------|------|
| | | |
| 12.DEVIATION TO TEST SPECIFICATIONS | | |
| [NONE] | | |
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