# Test Report

**FCC Part15 Subpart C**

| | | |
|---|---|---|
| Product Name | : | Wireless LAN Module |
| Model No. | : | WIFI-RT5392-SB |
| FCC ID | : | RFHWIFI-RT5392-SB |

| | | |
|---|---|---|
| Applicant | : | ICP Electronics Inc. |
| Address | : | 3F., No.22,Zhongxing Rd., Xizhi Dist., New Taipei City 221,Taiwan, R.O.C. |

| | | |
|---|---|---|
| Date of Receipt | : | 05/12/2011 |
| Test Date | : | 06/12/2011~21/12/2011 |
| Issued Date | : | 22/12/2011 |
| Report No. | : | 11CS021R-RF-US-P06V01 |
| Report Version | : | V1.0 |

# Test Report Certification

Issued Date : 22/12/2011
Report No. : 11CS021R-RF-US-P06V01

| | | |
|---|---|---|
| Product Name | : | Wireless LAN Module |
| Applicant | : | ICP Electronics Inc. |
| Address | : | 3F., No.22,Zhongxing Rd., Xizhi Dist., New Taipei City 221, Taiwan, R.O.C. |
| Manufacturer | : | ARMORLINK SHANGHAI CO., LTD. |
| Address | : | 515, SHENFU RD, XINZHUANG INDUSTRIAL ZONE, MINHANG DIST. SHANGHAI 201108, CHINA |
| Model No. | : | WIFI-RT5392-SB |
| FCC ID | : | RFHWIFI-RT5392-SB |
| EUT Voltage | : | 3.3V |
| Brand Name | : | IEI |
| Applicable Standard | : | FCC CFR Title 47 Part 15 Subpart C: 2008<br>ANSI C63.4: 2009; ANSI C63.10: 2009 |
| Test Result | : | Complied |
| Performed Location | : | Suzhou EMC Laboratory<br>No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou, China<br>TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098<br>FCC Registration Number: 800392 |

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(Engineering Manger: Marlin Chen)

## Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

| | | |
|---|---|---|
| **Taiwan R.O.C.** | **:** | **BSMI, NCC, TAF** |
| **Germany** | **:** | **TUV Rheinland** |
| **Norway** | **:** | **Nemko, DNV** |
| **USA** | **:** | **FCC, NVLAP** |
| **Japan** | **:** | **VCCI** |

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/
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Testing Laboratory 0914

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NVLAP Lab Code : 200743-0

Testing Laboratory 1596

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# 1. General Information

## 1.1. EUT Description

| | |
|---|---|
| Product Name | Wireless LAN Module |
| Model No. | WIFI-RT5392-SB |
| EUT Voltage | 3.3V |
| Frequency Range | 802.11b/g/n(20MHz): 2412~2462MHz<br>802.11n(40MHz): 2422~2452MHz |
| Channel Number | 802.11b/g/n(20MHz): 11<br>802.11n(40MHz): 7 |
| Type of Modulation | 802.11b: DSSS |
| | 802.11g/n: OFDM |
| Data Rate | 802.11g: 6/9/12/18/24/36/48/54 Mbps |
| | 802.11b: 1/2/5.5/11 Mbps |
| | 802.11n: up to 300Mbps |
| Channel Control | Auto |
| Antenna Delivery | 2*Tx + 2*Rx |
| Antenna Type | Reference to Antenna List |
| Peak Antenna Gain | Reference to Antenna List |

**802.11b/g/n Antenna List**

| Antenna | Manufacturer | Model No. | Peak Gain |
|---|---|---|---|
| Dipole Antenna | N/A | N/A | 2.4GHz: 2dBi |
| PCB Antenna | N/A | N/A | 2.4GHz: 2dBi |

**For 2.4GHz Band**

| 802.11b/g/n(20MHz) Working Frequency of Each Channel: | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 01 | 2412 MHz | 02 | 2417 MHz | 03 | 2422 MHz | 04 | 2427 MHz |
| 05 | 2432 MHz | 06 | 2437 MHz | 07 | 2442 MHz | 08 | 2447 MHz |
| 09 | 2452 MHz | 10 | 2457 MHz | 11 | 2462 MHz | N/A | N/A |
| 802.11n(40MHz) Working Frequency of Each Channel: | | | | | | | |
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 03 | 2422 MHz | 04 | 2427 MHz | 05 | 2432 MHz | 06 | 2437 MHz |
| 07 | 2442 MHz | 08 | 2447 MHz | 09 | 2452 MHz | N/A | N/A |

## 1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Test Mode |
|---|
| Mode 1: Transmit by 802.11b |
| Mode 2: Transmit by 802.11g |
| Mode 3: Transmit by 802.11n (20MHz) |
| Mode 4: Transmit by 802.11n (40MHz) |

Note:

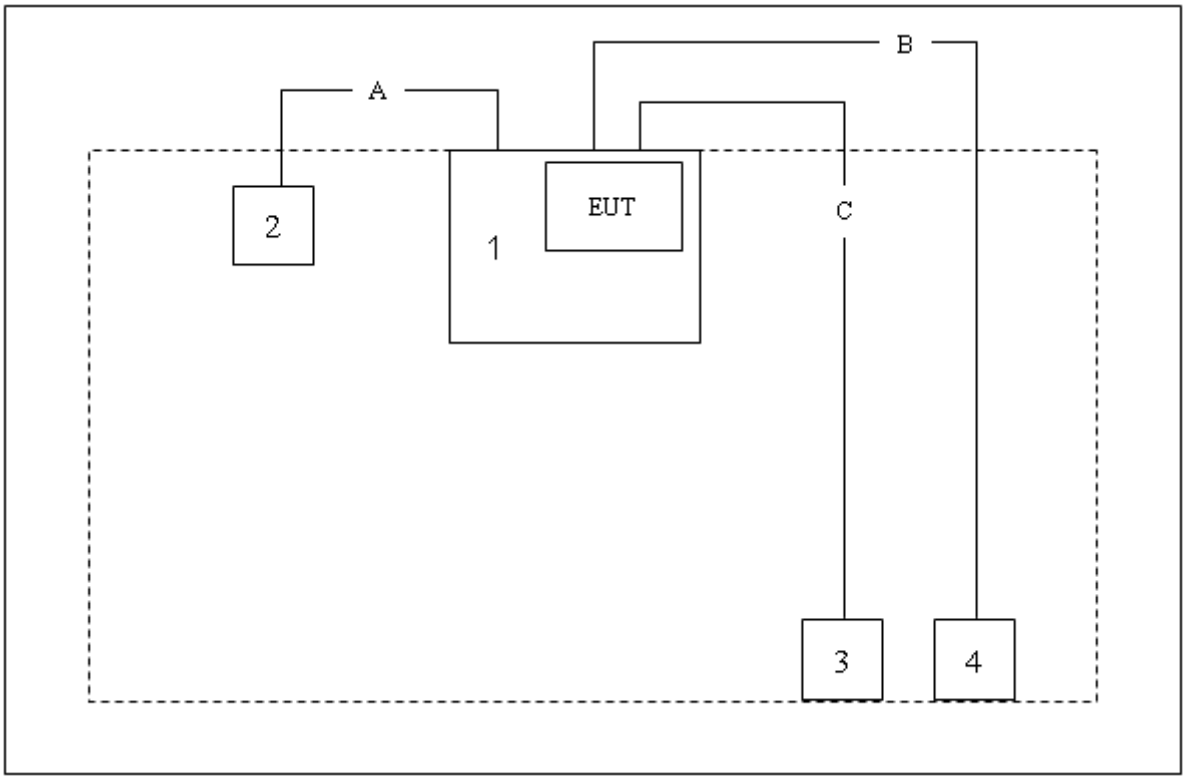
1. Regards to the frequency band operation: the lowest、middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 11CS021R-RF-US-P01V02.

## 1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | | Manufacturer | Model No. | Serial No. | Power Cord |
|---|---|---|---|---|---|
| 1 | Motherboard | N/A | N/A | N/A | N/A |
| 2 | LCD Monitor | BenQ | ET-0033T | ETT8903750019 | Non-Shielded, 1.8m |
| 3 | USB Mouse | DELL | MO56UOA | N/A | Power by PC |
| 4 | USB Keyboard | DELL | L100 | CN0RH6566589096802WK | Power by PC |

## 1.4. Configuration of Tested System

| Connection Diagram |
|---|
|  |



| Signal Cable Type | | Signal cable Description |
|---|---|---|
| A | VGA Cable | Shielded, 1.8m, with two ferrite core bonded |
| B | USB Cable | Shielded, 2.0m |
| C | USB Cable | Shielded, 1.8m |

## 1.5. EUT Exercise Software

| | |
|---|---|
| 1 | Setup the EUT and simulators as shown on above. |
| 2 | Turn on the power of equipment. |
| 3 | Execute the RF test software “RT539xQA.exe” on PC. |
| 4 | Setup the test channel and the test mode press ok to start the continue transmit. |

# 2. Technical Test

## 2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

| Performed Test Item | Normative References | Test Performed | Deviation |
|---|---|---|---|
| Conducted Emission | FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.207 | Yes | No |
| Radiated Emission | FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.209 | Yes | No |
| RF Antenna Conducted Spurious | FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(d) | Yes | No |
| Radiated Emission Band Edge | FCC CFR Title 47 Part 15 Subpart C: 2008 15.247(d) | Yes | No |
| Operation Frequency Range of 20dB Bandwidth | FCC CFR Title 47 Part 15 Subpart C: 2008 15.215(c) | Yes | No |
| Occupied Bandwidth | FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(a)(2) | Yes | No |
| Power Output | FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(b)(3) | Yes | No |
| Power Spectral Density | FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(e) | Yes | No |

## 2.2. Test Environment

| Items | Required (IEC 68-1) | Actual |
|---|---|---|
| Temperature (°C) | 15-35 | 21 |
| Humidity (%RH) | 25-75 | 50 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

# 3. Conducted Emission

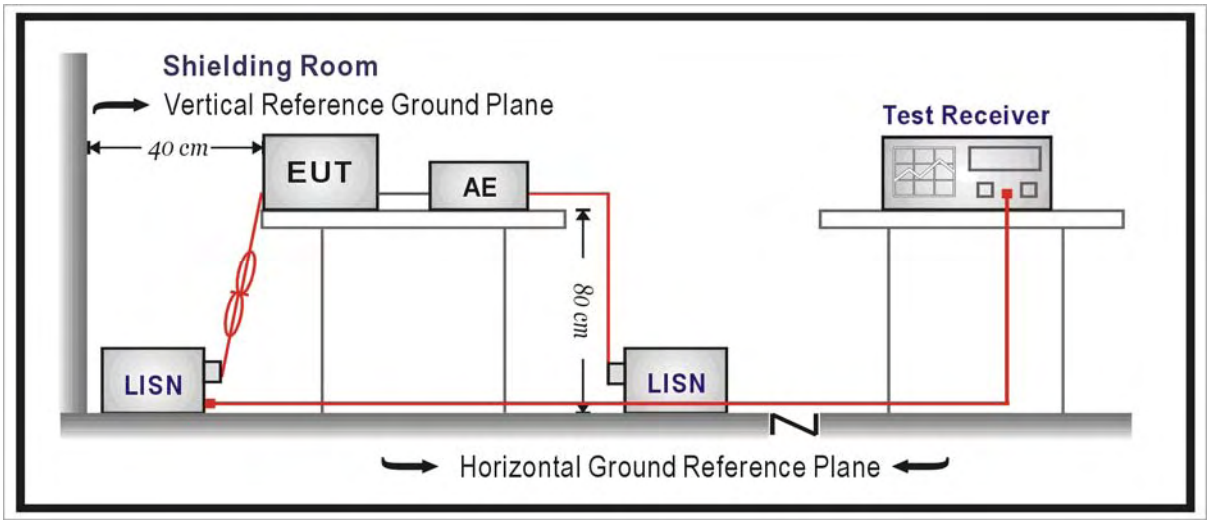
## 3.1. Test Equipment

Conducted Emission / TR-1

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|---|---|---|---|---|
| EMI Test Receiver | R&S | ESCI | 100726 | 2012.04.23 |
| Two-Line V-Network | R&S | ENV216 | 100043 | 2012.04.29 |
| Two-Line V-Network | R&S | ENV216 | 100044 | 2012.09.07 |
| 50ohm Coaxial Switch | Anritsu | MP59B | 6200464462 | 2012.05.05 |
| 50ohm Termination | SHX | TF2 | 07081401 | 2012.09.22 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | TR1-TH | 2012.01.14 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 3.2. Test Setup



## 3.3. Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits | | |
|---|---|---|
| Frequency (MHz) | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

## 3.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

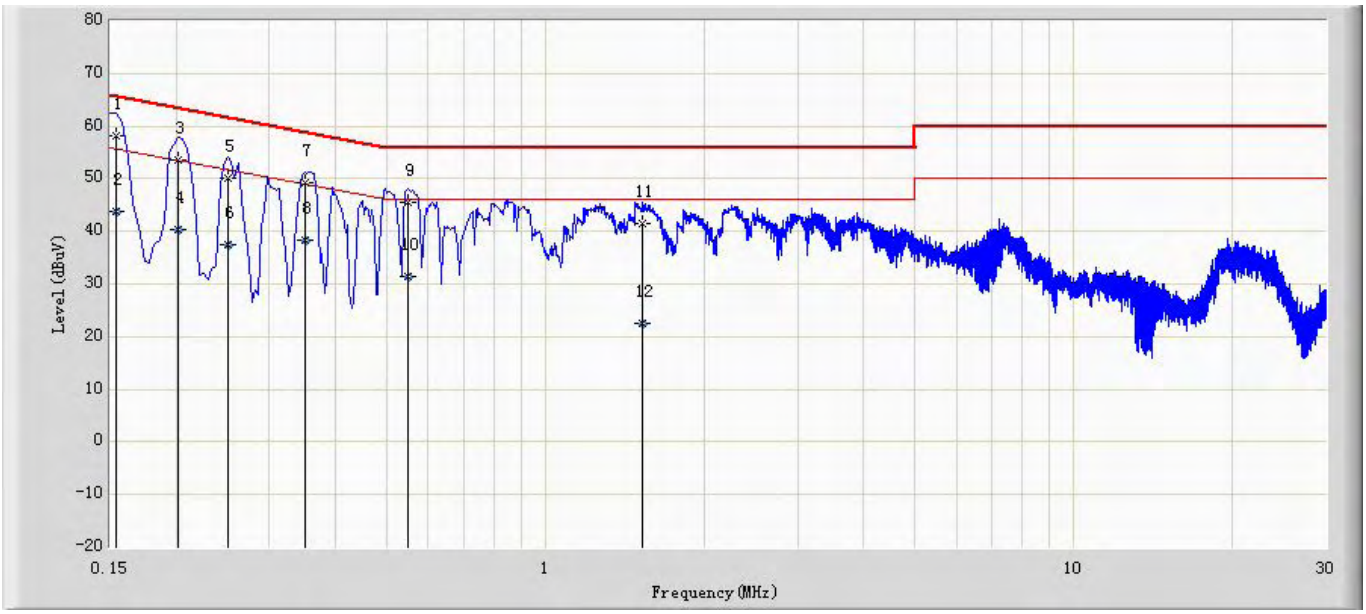
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

## 3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

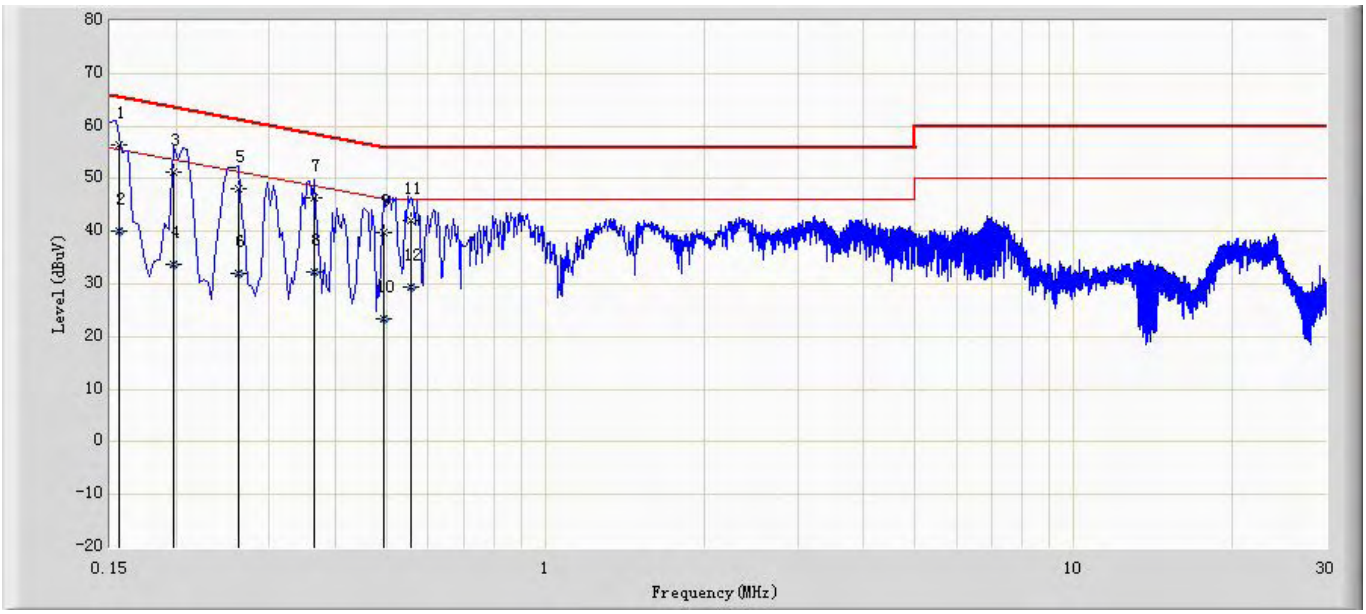
## 3.6. Test Result

| | |
|---|---|
| Engineer: Jame | |
| Site: TR1 | Time: 2011/12/19 - 18:55 |
| Limit: FCC_Part15.207_CE_AC_Power_ClassB | Margin: 0 |
| Probe: ENV216_101044(0.009-30MHz) | Polarity: Line |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1 | |




| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 0.154 | 58.242 | 38.546 | -7.552 | 65.793 | 19.695 | QP |
| 2 | | 0.154 | 43.740 | 24.045 | -12.054 | 55.793 | 19.695 | AV |
| 3 | | 0.202 | 53.476 | 33.775 | -10.052 | 63.528 | 19.700 | QP |
| 4 | | 0.202 | 40.230 | 20.530 | -13.298 | 53.528 | 19.700 | AV |
| 5 | | 0.250 | 50.062 | 30.355 | -11.695 | 61.757 | 19.707 | QP |
| 6 | | 0.250 | 37.502 | 17.795 | -14.255 | 51.757 | 19.707 | AV |
| 7 | | 0.350 | 49.323 | 29.632 | -9.640 | 58.962 | 19.690 | QP |
| 8 | | 0.350 | 38.366 | 18.676 | -10.597 | 48.962 | 19.690 | AV |
| 9 | | 0.550 | 45.485 | 25.742 | -10.515 | 56.000 | 19.743 | QP |
| 10 | | 0.550 | 31.512 | 11.769 | -14.488 | 46.000 | 19.743 | AV |
| 11 | | 1.526 | 41.373 | 21.722 | -14.627 | 56.000 | 19.651 | QP |
| 12 | | 1.526 | 22.646 | 2.995 | -23.354 | 46.000 | 19.651 | AV |

| | |
|---|---|
| Engineer: Jame | |
| Site: TR1 | Time: 2011/12/19 - 19:00 |
| Limit: FCC_Part15.207_CE_AC_Power_ClassB | Margin: 0 |
| Probe: ENV216_101044(0.009-30MHz) | Polarity: Neutral |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1 | |




| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 0.156 | 56.476 | 36.641 | -9.180 | 65.656 | 19.835 | QP |
| 2 | | 0.156 | 40.096 | 20.261 | -15.559 | 55.656 | 19.835 | AV |
| 3 | | 0.198 | 51.280 | 31.518 | -12.414 | 63.694 | 19.762 | QP |
| 4 | | 0.198 | 33.713 | 13.951 | -19.981 | 53.694 | 19.762 | AV |
| 5 | | 0.262 | 48.162 | 28.391 | -13.206 | 61.368 | 19.771 | QP |
| 6 | | 0.262 | 32.015 | 12.244 | -19.353 | 51.368 | 19.771 | AV |
| 7 | | 0.366 | 46.263 | 26.474 | -12.328 | 58.591 | 19.790 | QP |
| 8 | | 0.366 | 32.331 | 12.542 | -16.260 | 48.591 | 19.790 | AV |
| 9 | | 0.494 | 39.816 | 19.942 | -16.285 | 56.100 | 19.874 | QP |
| 10 | | 0.494 | 23.300 | 3.425 | -22.801 | 46.100 | 19.874 | AV |
| 11 | | 0.558 | 41.961 | 22.113 | -14.039 | 56.000 | 19.848 | QP |
| 12 | | 0.558 | 29.355 | 9.508 | -16.645 | 46.000 | 19.848 | AV |

# 4. Radiated Emission

## 4.1. Test Equipment

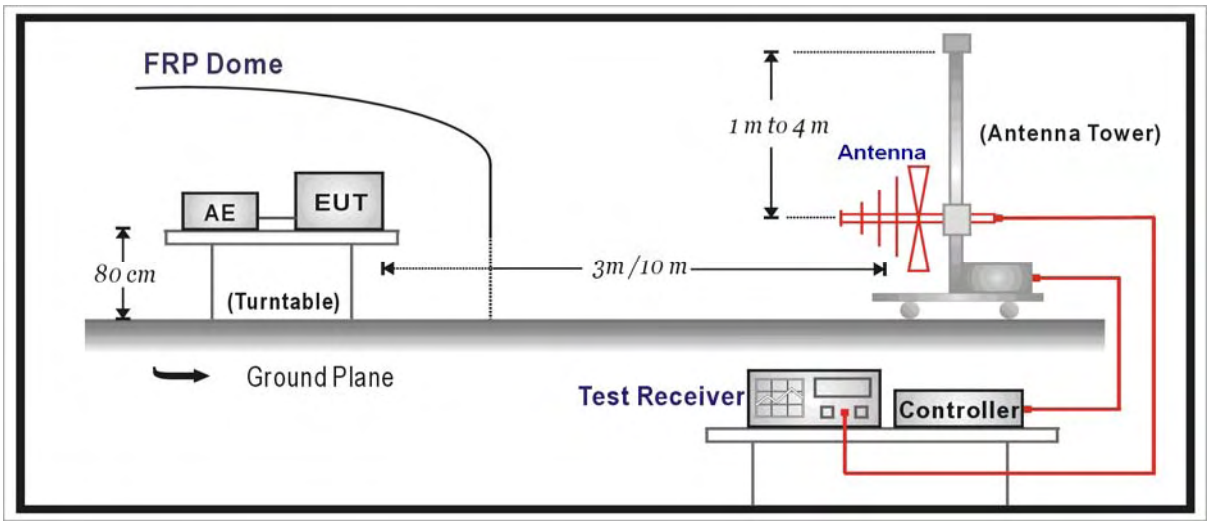
☒Radiated Emission / AC-5

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|---|---|---|---|---|
| Spectrum Analyzer | Agilent | N9010A | MY48030494 | 2012.04.23 |
| EMI Test Receiver | R&S | ESCI | 100906 | 2012.01.15 |
| Preamplifier | Quietek | AP-180C | CHM-0602013 | 2012.03.07 |
| Preamplifier | QuieTek | AP-040G | CHM-0906001 | 2012.05.05 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27612 | 2012.10.18 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9120D | 499 | 2012.06.11 |
| High-Pass Filter | Wainwright | WHKX2.8/18G-12SS | SN1 | 2012.03.03 |
| High-Pass Filter | Wainwright | WHKX7.0/18G-8SS | SN16 | 2012.03.03 |
| Lowpass Filter | Wainwright | WLKS4500-9SS | SN2 | 2012.03.03 |
| Temperature/Humidity Meter | Zhicheng | ZC1-2 | AC5-TH | 2012.01.14 |

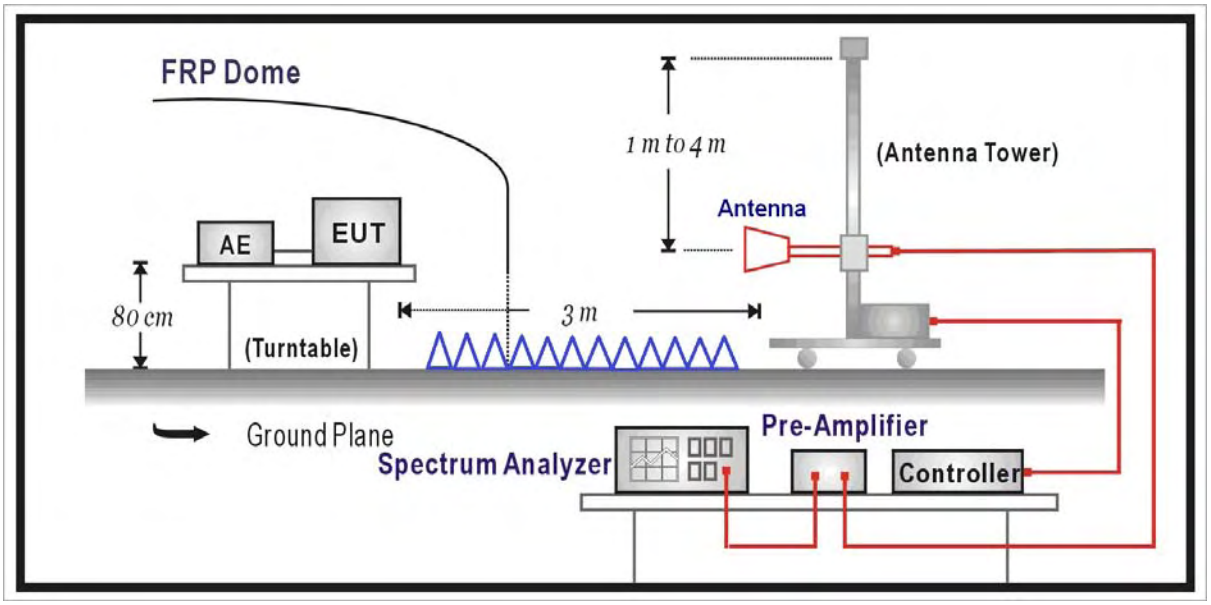
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 4.2. Test Setup

Below 1GHz Test Setup:




Above 1GHz Test Setup:



## 4.3. Limit

| FCC Part 15 Subpart C Paragraph 15.209 | | |
|---|---|---|
| Frequency (MHz) | Distance (m) | Level (dBuV/m) |
| 30 - 88 | 3 | 40 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46 |
| Above 960 | 3 | 54 |

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

## 4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

## 4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

below 1G is defined as ± 3.8 dB

## 4.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

Test by external antenna (Dipole antenna)

802.11b

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 1 | V | 2411.9 | 70.0 | 31.2 | 101.2 | Fundamental | / | PK |
| | | V | 763.2 | 6.9 | 28.4 | 35.3 | 46 | -10.7 | QP |
| | | V | 912.1 | 7.7 | 29.2 | 36.9 | 46 | -9.1 | QP |
| | | V | 3295.0 | 52.5 | -16.2 | 36.3 | 54(note1) | -17.7 | PK |
| | | V | 4825.0 | 54.9 | -11.9 | 42.9 | 54(note1) | -11.1 | PK |
| | | V | 7236.0 | 47.2 | -3.3 | 43.9 | 54(note1) | -10.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 71.9 | 31.2 | 103.1 | Fundamental | / | PK |
| | | H | 240.0 | 11.3 | 18.2 | 29.5 | 46 | -16.5 | QP |
| | | H | 266.6 | 9.3 | 19.9 | 29.2 | 46 | -16.8 | QP |
| | | V | 3295.0 | 52.9 | -16.2 | 36.7 | 54(note1) | -17.3 | PK |
| | | V | 4876.0 | 54.9 | -11.8 | 43.2 | 54(note1) | -10.8 | PK |
| | | V | 7188.0 | 51.3 | -3.5 | 47.8 | 54(note1) | -6.2 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2462.1 | 69.7 | 31.2 | 100.9 | Fundamental | / | PK |
| | | H | 290.0 | 9.6 | 20.1 | 29.7 | 46 | -16.3 | QP |
| | | H | 299.8 | 12.1 | 20.5 | 32.6 | 46 | -13.4 | QP |
| | | V | 3286.5 | 56.8 | -16.2 | 40.6 | 54(note1) | -13.4 | PK |
| | | V | 4986.5 | 57.7 | -11.3 | 46.4 | 54(note1) | -7.6 | PK |
| | | V | 7386.0 | 48.0 | -2.8 | 45.2 | 54(note1) | -8.8 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 1 | 1 | V | 2410.9 | 66.1 | 31.2 | 97.3 | Fundamental | / | PK |
| | | H | 333.1 | 8.5 | 21.5 | 30.0 | 46 | -16.0 | QP |
| | | H | 355.3 | 8.9 | 22.2 | 31.1 | 46 | -14.9 | QP |
| | | V | 3218.5 | 55.5 | -15.9 | 39.6 | 54(note1) | -14.4 | PK |
| | | V | 5080.0 | 51.8 | -11.1 | 40.7 | 54(note1) | -13.3 | PK |
| | | V | 7236.0 | 47.2 | -3.3 | 44.0 | 54(note1) | -10.0 | PK |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 66.8 | 31.2 | 98.0 | Fundamental | / | PK |
| | | H | 464.6 | 10.9 | 24.7 | 35.6 | 46 | -10.4 | QP |
| | | H | 497.8 | 9.4 | 25.3 | 34.7 | 46 | -11.3 | QP |
| | | V | 3252.5 | 57.2 | -16.0 | 41.1 | 54(note1) | -12.9 | PK |
| | | V | 4874.0 | 50.4 | -11.8 | 38.7 | 54(note1) | -15.3 | PK |
| | | V | 7311.0 | 47.1 | -3.0 | 44.1 | 54(note1) | -9.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2462.1 | 66.2 | 31.2 | 97.4 | Fundamental | / | PK |
| | | H | 566.3 | 6.4 | 26.6 | 33.0 | 46 | -13.0 | QP |
| | | H | 624.0 | 7.8 | 27.3 | 35.1 | 46 | -10.9 | QP |
| | | V | 3286.5 | 55.1 | -16.2 | 38.9 | 54(note1) | -15.1 | PK |
| | | V | 4629.5 | 52.5 | -12.4 | 40.0 | 54(note1) | -14.0 | PK |
| | | V | 7386.0 | 47.3 | -2.8 | 44.5 | 54(note1) | -9.5 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11g

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 1 | V | 2408.7 | 69.3 | 31.2 | 100.4 | Fundamental | / | PK |
| | | H | 697.5 | 7.1 | 27.7 | 34.8 | 46 | -11.2 | QP |
| | | H | 796.3 | 9.4 | 28.5 | 37.9 | 46 | -8.1 | QP |
| | | V | 3218.5 | 56.1 | -15.9 | 40.2 | 54(note1) | -13.8 | PK |
| | | V | 4825.0 | 63.9 | -11.9 | 52.0 | 54(note1) | -2.0 | PK |
| | | V | 7236.0 | 47.6 | -3.3 | 44.3 | 54(note1) | -9.7 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 70.8 | 31.2 | 102.0 | Fundamental | / | PK |
| | | H | 863.1 | 6.6 | 29.0 | 35.6 | 46 | -10.4 | QP |
| | | H | 912.1 | 8.5 | 29.2 | 37.7 | 46 | -8.3 | QP |
| | | V | 3252.5 | 57.1 | -16.0 | 41.0 | 54(note1) | -13.0 | PK |
| | | V | 4876.0 | 61.3 | -11.8 | 49.5 | 54(note1) | -4.5 | PK |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | V | 7311.0 | 47.9 | -3.0 | 44.9 | 54(note1) | -9.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | | V | 2467.2 | 69.2 | 31.2 | 100.4 | Fundamental | / | PK |
| | | H | 240.0 | 11.9 | 18.2 | 30.1 | 46 | -15.9 | QP |
| | | H | 266.7 | 9.9 | 19.9 | 29.8 | 46 | -16.2 | QP |
| | 11 | V | 3286.5 | 56.7 | -16.2 | 40.5 | 54(note1) | -13.5 | PK |
| | | V | 4927.0 | 56.9 | -11.5 | 45.4 | 54(note1) | -8.6 | PK |
| | | V | 7386.0 | 46.8 | -2.8 | 44.0 | 54(note1) | -10.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | | V | 2408.7 | 68.6 | 31.2 | 99.7 | Fundamental | / | PK |
| | | H | 284.3 | 8.4 | 20.0 | 28.4 | 46 | -17.6 | QP |
| | | H | 333.1 | 9.4 | 21.5 | 30.9 | 46 | -15.1 | QP |
| | 1 | V | 3218.5 | 54.6 | -15.9 | 38.6 | 54(note1) | -15.4 | PK |
| | | V | 4986.5 | 55.0 | -11.3 | 43.7 | 54(note1) | -10.3 | PK |
| | | V | 7236.0 | 47.0 | -3.3 | 43.7 | 54(note1) | -10.3 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | | V | 2437.0 | 72.1 | 31.2 | 103.3 | Fundamental | / | PK |
| | | H | 399.8 | 10.6 | 23.7 | 34.3 | 46 | -11.7 | QP |
| | | H | 442.4 | 5.7 | 24.2 | 29.9 | 46 | -16.1 | QP |
| Chain 1 | 6 | V | 3286.5 | 53.7 | -16.2 | 37.5 | 54(note1) | -16.5 | PK |
| | | V | 4874.0 | 50.4 | -11.8 | 38.7 | 54(note1) | -15.3 | PK |
| | | V | 7311.0 | 47.2 | -3.0 | 44.2 | 54(note1) | -9.8 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | | V | 2458.6 | 68.7 | 31.2 | 99.9 | Fundamental | / | PK |
| | | H | 499.7 | 10.6 | 25.3 | 35.9 | 46 | -10.1 | QP |
| | | H | 566.4 | 7.2 | 26.6 | 33.8 | 46 | -12.2 | QP |
| | 11 | V | 3286.5 | 54.7 | -16.2 | 38.5 | 54(note1) | -15.5 | PK |
| | | V | 4924.0 | 51.3 | -11.5 | 39.7 | 54(note1) | -14.3 | PK |
| | | V | 7386.0 | 46.9 | -2.8 | 44.1 | 54(note1) | -9.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(20MHz)

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 1 | V | 2408.2 | 68.5 | 31.2 | 99.7 | Fundamental | / | PK |
| | | H | 599.8 | 10.5 | 26.8 | 37.3 | 46 | -8.7 | QP |
| | | H | 624.0 | 7.8 | 27.3 | 35.1 | 46 | -10.9 | QP |
| | | V | 3337.5 | 52.4 | -16.2 | 36.2 | 54(note1) | -17.8 | PK |
| | | V | 4825.0 | 61.5 | -11.9 | 49.5 | 54(note1) | -4.5 | PK |
| | | V | 7236.0 | 47.2 | -3.3 | 44.0 | 54(note1) | -10.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 68.3 | 31.2 | 99.5 | Fundamental | / | PK |
| | | H | 705.2 | 6.8 | 27.8 | 34.6 | 46 | -11.4 | QP |
| | | H | 799.5 | 7.8 | 28.6 | 36.4 | 46 | -9.6 | QP |
| | | V | 3252.5 | 58.0 | -16.0 | 42.0 | 54(note1) | -12.0 | PK |
| | | V | 4867.5 | 59.2 | -11.8 | 47.4 | 54(note1) | -6.6 | PK |
| | | V | 7311.0 | 47.6 | -3.0 | 44.5 | 54(note1) | -9.5 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2463.4 | 67.6 | 31.2 | 98.8 | Fundamental | / | PK |
| | | H | 912.1 | 9.9 | 29.2 | 39.1 | 46 | -6.9 | QP |
| | | V | 232.4 | 10.2 | 17.2 | 27.4 | 46 | -18.6 | QP |
| | | V | 3286.5 | 55.7 | -16.2 | 39.5 | 54(note1) | -14.5 | PK |
| | | V | 4935.5 | 53.7 | -11.5 | 42.2 | 54(note1) | -11.8 | PK |
| | | V | 7386.0 | 47.7 | -2.8 | 44.9 | 54(note1) | -9.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 1 | 1 | V | 2410.2 | 68.2 | 31.2 | 99.4 | Fundamental | / | PK |
| | | V | 267.9 | 5.7 | 19.9 | 25.6 | 46 | -20.4 | QP |
| | | V | 325.6 | 5.6 | 21.3 | 26.9 | 46 | -19.1 | QP |
| | | V | 3218.5 | 54.6 | -15.9 | 38.6 | 54(note1) | -15.4 | PK |
| | | V | 4824.0 | 51.6 | -11.9 | 39.7 | 54(note1) | -14.3 | PK |
| | | V | 7236.0 | 47.4 | -3.3 | 44.1 | 54(note1) | -9.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 67.3 | 31.2 | 98.5 | Fundamental | / | PK |
| | | V | 365.0 | 8.4 | 22.4 | 30.8 | 46 | -15.2 | QP |
| | | V | 399.7 | 6.5 | 23.7 | 30.2 | 46 | -15.8 | QP |
| | | V | 3218.5 | 55.4 | -15.9 | 39.4 | 54(note1) | -14.6 | PK |
| | | V | 4874.0 | 49.7 | -11.8 | 38.0 | 54(note1) | -16.0 | PK |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | V | 7311.0 | 47.1 | -3.0 | 44.1 | 54(note1) | -9.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2463.6 | 68.2 | 31.2 | 99.4 | Fundamental | / | PK |
| | | V | 433.2 | 7.5 | 24.2 | 31.7 | 46 | -14.3 | QP |
| | | V | 499.7 | 10.2 | 25.3 | 35.5 | 46 | -10.5 | QP |
| | | V | 3286.5 | 55.2 | -16.2 | 39.0 | 54(note1) | -15.0 | PK |
| | | V | 4924.0 | 49.8 | -11.5 | 38.2 | 54(note1) | -15.8 | PK |
| | | V | 7386.0 | 47.2 | -2.8 | 44.4 | 54(note1) | -9.6 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 0+1 | 1 | V | 2416.2 | 73.3 | 31.2 | 104.5 | Fundamental | / | PK |
| | | V | 564.2 | 8.3 | 26.6 | 34.9 | 46 | -11.1 | QP |
| | | V | 633.0 | 8.3 | 27.3 | 35.6 | 46 | -10.4 | QP |
| | | V | 3218.5 | 56.3 | -15.9 | 40.4 | 54(note1) | -13.6 | PK |
| | | V | 4825.0 | 57.7 | -11.9 | 45.8 | 54(note1) | -8.2 | PK |
| | | V | 7236.0 | 47.4 | -3.3 | 44.1 | 54(note1) | -9.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 74.1 | 31.2 | 105.3 | Fundamental | / | PK |
| | | V | 697.4 | 6.6 | 27.7 | 34.3 | 46 | -11.7 | QP |
| | | V | 799.6 | 8.1 | 28.6 | 36.7 | 46 | -9.3 | QP |
| | | V | 3252.5 | 57.2 | -16.0 | 41.2 | 54(note1) | -12.8 | PK |
| | | V | 4876.0 | 58.3 | -11.8 | 46.6 | 54(note1) | -7.4 | PK |
| | | V | 7311.0 | 47.1 | -3.0 | 44.1 | 54(note1) | -9.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2463.5 | 72.9 | 31.2 | 104.1 | Fundamental | / | PK |
| | | V | 233.2 | 10.2 | 17.3 | 27.5 | 46 | -18.5 | QP |
| | | V | 262.0 | 6.4 | 19.9 | 26.3 | 46 | -19.7 | QP |
| | | V | 3286.5 | 55.8 | -16.2 | 39.6 | 54(note1) | -14.4 | PK |
| | | V | 4918.5 | 55.0 | -11.6 | 43.5 | 54(note1) | -10.5 | PK |
| | | V | 7386.0 | 47.3 | -2.8 | 44.5 | 54(note1) | -9.5 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(40MHz)

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 3 | V | 2411.8 | 65.4 | 31.2 | 96.5 | Fundamental | / | PK |
| | | V | 300.1 | 5.3 | 20.5 | 25.8 | 46 | -20.2 | QP |
| | | V | 338.1 | 5.8 | 21.6 | 27.4 | 46 | -18.6 | QP |
| | | V | 3227.0 | 55.6 | -16.0 | 39.6 | 54(note1) | -14.4 | PK |
| | | V | 4833.5 | 55.9 | -11.9 | 44.0 | 54(note1) | -10.0 | PK |
| | | V | 7266.0 | 47.2 | -3.2 | 44.0 | 54(note1) | -10.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 66.2 | 31.2 | 97.4 | Fundamental | / | PK |
| | | V | 366.5 | 8.1 | 22.5 | 30.6 | 46 | -15.4 | QP |
| | | V | 431.5 | 8.6 | 24.2 | 32.8 | 46 | -13.2 | QP |
| | | V | 3252.5 | 57.2 | -16.0 | 41.2 | 54(note1) | -12.8 | PK |
| | | V | 4867.5 | 56.5 | -11.8 | 44.8 | 54(note1) | -9.2 | PK |
| | | V | 7311.0 | 47.1 | -3.0 | 44.1 | 54(note1) | -9.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 9 | V | 2460.4 | 65.3 | 31.2 | 96.5 | Fundamental | / | PK |
| | | V | 464.8 | 5.4 | 24.7 | 30.1 | 46 | -15.9 | QP |
| | | V | 531.0 | 5.9 | 25.8 | 31.7 | 46 | -14.3 | QP |
| | | V | 3269.5 | 56.5 | -16.1 | 40.4 | 54(note1) | -13.6 | PK |
| | | V | 4904.0 | 53.5 | -11.6 | 41.9 | 54(note1) | -12.1 | PK |
| | | V | 7356.0 | 46.6 | -2.8 | 43.8 | 54(note1) | -10.2 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 1 | 3 | V | 2424.2 | 64.8 | 31.2 | 96.0 | Fundamental | / | PK |
| | | V | 624.0 | 8.2 | 27.3 | 35.5 | 46 | -10.5 | QP |
| | | V | 697.1 | 7.5 | 27.7 | 35.2 | 46 | -10.8 | QP |
| | | V | 3227.0 | 53.9 | -16.0 | 37.9 | 54(note1) | -16.1 | PK |
| | | V | 4986.5 | 55.4 | -11.3 | 44.1 | 54(note1) | -9.9 | PK |
| | | V | 7266.0 | 46.7 | -3.2 | 43.5 | 54(note1) | -10.5 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 64.6 | 31.2 | 95.8 | Fundamental | / | PK |
| | | V | 763.2 | 6.8 | 28.4 | 35.2 | 46 | -10.8 | QP |
| | | V | 912.1 | 7.4 | 29.2 | 36.6 | 46 | -9.4 | QP |
| | | V | 3252.5 | 55.7 | -16.0 | 39.6 | 54(note1) | -14.4 | PK |
| | | V | 4924.0 | 49.8 | -11.5 | 38.3 | 54(note1) | -15.7 | PK |
| | | V | 7311.0 | 47.3 | -3.0 | 44.3 | 54(note1) | -9.7 | PK |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 9 | V | 2444.9 | 64.7 | 31.2 | 95.9 | Fundamental | / | PK |
| | | H | 240.0 | 11.1 | 18.2 | 29.3 | 46 | -16.7 | QP |
| | | H | 266.6 | 9.4 | 19.9 | 29.3 | 46 | -16.7 | QP |
| | | V | 3269.5 | 54.5 | -16.1 | 38.4 | 54(note1) | -15.6 | PK |
| | | V | 4904.0 | 50.7 | -11.6 | 39.1 | 54(note1) | -14.9 | PK |
| | | V | 7356.0 | 47.7 | -2.8 | 44.8 | 54(note1) | -9.2 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 0+1 | 3 | V | 2417.8 | 69.8 | 31.2 | 101.0 | Fundamental | / | PK |
| | | H | 290.0 | 9.5 | 20.1 | 29.6 | 46 | -16.4 | QP |
| | | H | 299.8 | 12.2 | 20.5 | 32.7 | 46 | -13.3 | QP |
| | | V | 3227.0 | 55.3 | -16.0 | 39.3 | 54(note1) | -14.7 | PK |
| | | V | 4833.5 | 55.3 | -11.9 | 43.4 | 54(note1) | -10.6 | PK |
| | | V | 7266.0 | 48.6 | -3.2 | 45.4 | 54(note1) | -8.6 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 70.2 | 31.2 | 101.4 | Fundamental | / | PK |
| | | H | 333.1 | 8.3 | 21.5 | 29.8 | 46 | -16.2 | QP |
| | | H | 355.3 | 8.7 | 22.2 | 30.9 | 46 | -15.1 | QP |
| | | V | 3252.5 | 56.8 | -16.0 | 40.8 | 54(note1) | -13.2 | PK |
| | | V | 4884.5 | 54.8 | -11.7 | 43.1 | 54(note1) | -10.9 | PK |
| | | V | 7311.0 | 47.6 | -3.0 | 44.6 | 54(note1) | -9.4 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 9 | V | 2441.7 | 70.5 | 31.2 | 101.7 | Fundamental | / | PK |
| | | H | 464.6 | 10.5 | 24.7 | 35.2 | 46 | -10.8 | QP |
| | | H | 497.8 | 9.1 | 25.3 | 34.4 | 46 | -11.6 | QP |
| | | V | 3252.5 | 56.9 | -16.0 | 40.8 | 54(note1) | -13.2 | PK |
| | | V | 4893.0 | 55.9 | -11.6 | 44.3 | 54(note1) | -9.7 | PK |
| | | V | 7356.0 | 47.7 | -2.8 | 44.8 | 54(note1) | -9.2 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Test by build-in antenna (PCB antenna)
802.11b

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 1 | V | 2412.0 | 72.2 | 31.2 | 103.4 | Fundamental | / | PK |
| | | V | 233.2 | 10.2 | 17.3 | 27.5 | 46 | -18.5 | QP |
| | | V | 262.0 | 6.7 | 19.9 | 26.6 | 46 | -19.4 | QP |
| | | V | 3737.0 | 58.2 | -14.7 | 43.5 | 54(note1) | -10.5 | PK |
| | | V | 4825.0 | 57.6 | -11.9 | 45.7 | 54(note1) | -8.3 | PK |
| | | V | 7236.0 | 48.0 | -3.8 | 44.2 | 54(note1) | -9.8 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 74.0 | 31.2 | 105.2 | Fundamental | / | PK |
| | | V | 300.1 | 5.8 | 20.5 | 26.2 | 46 | -19.8 | QP |
| | | V | 338.1 | 5.2 | 21.6 | 26.8 | 46 | -19.2 | QP |
| | | V | 3745.5 | 56.6 | -14.7 | 41.9 | 54(note1) | -12.1 | PK |
| | | V | 4986.5 | 56.3 | -11.4 | 44.8 | 54(note1) | -9.2 | PK |
| | | V | 7383.5 | 51.4 | -3.4 | 48.0 | 54(note1) | -6.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2462.1 | 73.7 | 31.2 | 104.9 | Fundamental | / | PK |
| | | V | 366.5 | 8.2 | 22.5 | 30.6 | 46 | -15.4 | QP |
| | | V | 431.5 | 8.5 | 24.2 | 32.7 | 46 | -13.3 | QP |
| | | V | 3286.5 | 53.7 | -16.1 | 37.6 | 54(note1) | -16.4 | PK |
| | | V | 4924.0 | 49.7 | -11.4 | 38.4 | 54(note1) | -15.6 | PK |
| | | V | 7383.5 | 50.1 | -3.4 | 46.7 | 54(note1) | -7.3 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 1 | 1 | V | 2408.5 | 70.0 | 31.2 | 101.2 | Fundamental | / | PK |
| | | V | 464.8 | 5.2 | 24.7 | 29.9 | 46 | -16.1 | QP |
| | | V | 531.0 | 6.0 | 25.8 | 31.8 | 46 | -14.2 | QP |
| | | V | 3218.5 | 55.6 | -16.0 | 39.7 | 54(note1) | -14.3 | PK |
| | | V | 4459.5 | 54.0 | -12.8 | 41.2 | 54(note1) | -12.8 | PK |
| | | V | 7236.0 | 47.7 | -3.8 | 44.0 | 54(note1) | -10.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 71.3 | 31.2 | 102.5 | Fundamental | / | PK |
| | | V | 624.0 | 8.2 | 27.3 | 35.5 | 46 | -10.5 | QP |
| | | V | 697.1 | 7.4 | 27.7 | 35.1 | 46 | -10.9 | QP |
| | | V | 3252.5 | 55.9 | -16.1 | 39.7 | 54(note1) | -14.3 | PK |
| | | V | 4874.0 | 50.0 | -11.6 | 38.4 | 54(note1) | -15.6 | PK |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | V | 7311.0 | 46.6 | -3.6 | 43.0 | 54(note1) | -11.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2462.1 | 65.8 | 31.2 | 97.0 | Fundamental | / | PK |
| | | V | 763.2 | 6.4 | 28.4 | 34.8 | 46 | -11.2 | QP |
| | | V | 912.1 | 7.3 | 29.2 | 36.5 | 46 | -9.5 | QP |
| | | V | 3184.5 | 53.2 | -15.9 | 37.2 | 54(note1) | -16.8 | PK |
| | | V | 4924.0 | 49.9 | -11.4 | 38.5 | 54(note1) | -15.5 | PK |
| | | V | 7386.0 | 47.2 | -3.4 | 43.8 | 54(note1) | -10.2 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11g

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 1 | V | 2417.2 | 72.8 | 31.2 | 104.0 | Fundamental | / | PK |
| | | H | 240.0 | 11.4 | 18.2 | 29.5 | 46 | -16.5 | QP |
| | | H | 266.6 | 9.7 | 19.9 | 29.7 | 46 | -16.3 | QP |
| | | V | 3218.5 | 54.7 | -16.0 | 38.7 | 54(note1) | -15.3 | PK |
| | | V | 4825.0 | 67.1 | -11.9 | 55.2 | 74 | -18.8 | PK |
| | | V | 4825.0 | 52.0 | -11.9 | 40.1 | 54 | -13.9 | AV |
| | | V | 7236.0 | 47.4 | -3.8 | 43.6 | 54(note1) | -10.4 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 74.2 | 31.2 | 105.4 | Fundamental | / | PK |
| | | H | 290.0 | 9.4 | 20.1 | 29.5 | 46 | -16.5 | QP |
| | | H | 299.8 | 12.2 | 20.5 | 32.6 | 46 | -13.4 | QP |
| | | V | 3252.5 | 54.2 | -16.1 | 38.0 | 54(note1) | -16.0 | PK |
| | | V | 4867.5 | 55.4 | -11.5 | 43.9 | 54(note1) | -10.1 | PK |
| | | V | 7311.0 | 47.3 | -3.6 | 43.7 | 54(note1) | -10.3 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2467.2 | 73.8 | 31.2 | 105.0 | Fundamental | / | PK |
| | | H | 333.1 | 8.4 | 21.5 | 29.9 | 46 | -16.1 | QP |
| | | H | 355.3 | 8.1 | 22.2 | 30.3 | 46 | -15.7 | QP |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | V | 4264.0 | 53.4 | -13.5 | 40.0 | 54(note1) | -14.1 | PK |
| | | V | 4924.0 | 51.4 | -11.4 | 40.1 | 54(note1) | -13.9 | PK |
| | | V | 7386.0 | 47.3 | -3.4 | 43.9 | 54(note1) | -10.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 1 | 1 | V | 2408.6 | 73.1 | 31.2 | 104.3 | Fundamental | / | PK |
| | | H | 464.6 | 10.3 | 24.7 | 35.0 | 46 | -11.0 | QP |
| | | H | 497.8 | 9.8 | 25.3 | 35.1 | 46 | -11.0 | QP |
| | | V | 3218.5 | 56.1 | -16.0 | 40.1 | 54(note1) | -13.9 | PK |
| | | V | 4824.0 | 50.6 | -11.9 | 38.7 | 54(note1) | -15.3 | PK |
| | | V | 7236.0 | 47.3 | -3.8 | 43.5 | 54(note1) | -10.5 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 72.8 | 31.0 | 103.8 | Fundamental | / | PK |
| | | H | 566.3 | 6.1 | 26.6 | 32.8 | 46 | -13.2 | QP |
| | | H | 624.0 | 7.2 | 27.3 | 34.5 | 46 | -11.5 | QP |
| | | V | 3252.5 | 55.1 | -16.1 | 38.9 | 54(note1) | -15.1 | PK |
| | | V | 4874.0 | 50.2 | -11.6 | 38.6 | 54(note1) | -15.4 | PK |
| | | V | 7311.0 | 47.1 | -3.6 | 43.5 | 54(note1) | -10.5 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2467.2 | 73.4 | 31.2 | 104.6 | Fundamental | / | PK |
| | | H | 697.5 | 7.1 | 27.7 | 34.9 | 46 | -11.1 | QP |
| | | H | 796.3 | 9.1 | 28.5 | 37.6 | 46 | -8.4 | QP |
| | | V | 3218.5 | 53.8 | -16.0 | 37.8 | 54(note1) | -16.2 | PK |
| | | V | 4924.0 | 50.2 | -11.4 | 38.8 | 54(note1) | -15.2 | PK |
| | | V | 7386.0 | 46.6 | -3.4 | 43.2 | 54(note1) | -10.8 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(20MHz)

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 1 | V | 2416.1 | 71.5 | 31.2 | 102.7 | Fundamental | / | PK |
| | | H | 863.1 | 6.9 | 29.0 | 36.0 | 46 | -10.0 | QP |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | H | 912.1 | 8.7 | 29.2 | 37.9 | 46 | -8.1 | QP |
| | | V | 3218.5 | 53.8 | -16.0 | 37.8 | 54(note1) | -16.2 | PK |
| | | V | 4825.0 | 65.2 | -11.9 | 53.3 | 54(note1) | -0.7 | PK |
| | | V | 7236.0 | 46.6 | -3.8 | 42.9 | 54(note1) | -11.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 72.3 | 31.1 | 103.4 | Fundamental | / | PK |
| | | H | 240.0 | 11.7 | 18.2 | 29.8 | 46 | -16.2 | QP |
| | | H | 266.7 | 9.2 | 19.9 | 29.2 | 46 | -16.8 | QP |
| | | V | 3252.5 | 54.7 | -16.1 | 38.6 | 54(note1) | -15.4 | PK |
| | | V | 4876.0 | 52.5 | -11.6 | 40.9 | 54(note1) | -13.1 | PK |
| | | V | 7311.0 | 47.6 | -3.6 | 44.0 | 54(note1) | -10.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2463.3 | 73.3 | 31.2 | 104.5 | Fundamental | / | PK |
| | | H | 284.3 | 8.9 | 20.0 | 28.9 | 46 | -17.1 | QP |
| | | H | 333.1 | 9.8 | 21.5 | 31.2 | 46 | -14.8 | QP |
| | | V | 3286.5 | 53.2 | -16.1 | 37.1 | 54(note1) | -16.9 | PK |
| | | V | 4924.0 | 50.0 | -11.4 | 38.6 | 54(note1) | -15.4 | PK |
| | | V | 7386.0 | 47.4 | -3.4 | 44.0 | 54(note1) | -10.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 1 | 1 | V | 2413.5 | 72.8 | 31.2 | 104.0 | Fundamental | / | PK |
| | | H | 399.8 | 10.5 | 23.7 | 34.1 | 46 | -11.9 | QP |
| | | H | 442.4 | 5.7 | 24.2 | 29.9 | 46 | -16.1 | QP |
| | | V | 3218.5 | 55.9 | -16.0 | 39.9 | 54(note1) | -14.1 | PK |
| | | V | 4986.5 | 55.3 | -11.4 | 43.8 | 54(note1) | -10.2 | PK |
| | | V | 7236.0 | 47.7 | -3.8 | 43.9 | 54(note1) | -10.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 72.6 | 31.4 | 104.0 | Fundamental | / | PK |
| | | H | 499.7 | 10.1 | 25.3 | 35.4 | 46 | -10.6 | QP |
| | | H | 566.4 | 7.3 | 26.6 | 33.9 | 46 | -12.1 | QP |
| | | V | 3252.5 | 54.4 | -16.1 | 38.3 | 54(note1) | -15.7 | PK |
| | | V | 4874.0 | 49.9 | -11.6 | 38.3 | 54(note1) | -15.7 | PK |
| | | V | 7311.0 | 47.1 | -3.6 | 43.5 | 54(note1) | -10.5 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2466.2 | 72.5 | 31.2 | 103.7 | Fundamental | / | PK |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | H | 599.8 | 10.6 | 26.8 | 37.3 | 46 | -8.7 | QP |
| | | H | 624.0 | 7.2 | 27.3 | 34.5 | 46 | -11.5 | QP |
| | | V | 3286.5 | 52.4 | -16.1 | 36.4 | 54(note1) | -17.6 | PK |
| | | V | 4924.0 | 50.0 | -11.4 | 38.7 | 54(note1) | -15.3 | PK |
| | | V | 7386.0 | 47.4 | -3.4 | 44.0 | 54(note1) | -10.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 0+1 | 1 | V | 2416.1 | 76.3 | 31.2 | 107.5 | Fundamental | / | PK |
| | | H | 705.2 | 6.3 | 27.8 | 34.0 | 46 | -12.0 | QP |
| | | H | 799.5 | 7.9 | 28.6 | 36.4 | 46 | -9.6 | QP |
| | | V | 3218.5 | 54.7 | -16.0 | 38.8 | 54(note1) | -15.2 | PK |
| | | V | 4825.0 | 63.5 | -11.9 | 51.7 | 54(note1) | -2.3 | PK |
| | | V | 7236.0 | 46.9 | -3.8 | 43.2 | 54(note1) | -10.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 76.7 | 31.5 | 108.2 | Fundamental | / | PK |
| | | H | 912.1 | 9.2 | 29.2 | 38.4 | 46 | -7.6 | QP |
| | | V | 232.4 | 10.5 | 17.2 | 27.7 | 46 | -18.3 | QP |
| | | V | 3252.5 | 54.3 | -16.1 | 38.1 | 54(note1) | -15.9 | PK |
| | | V | 4876.0 | 53.7 | -11.6 | 42.1 | 54(note1) | -11.9 | PK |
| | | V | 7311.0 | 46.8 | -3.6 | 43.2 | 54(note1) | -10.8 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 11 | V | 2458.1 | 75.9 | 31.2 | 107.1 | Fundamental | / | PK |
| | | V | 267.9 | 5.2 | 19.9 | 25.1 | 46 | -20.9 | QP |
| | | V | 325.6 | 5.6 | 21.3 | 26.9 | 46 | -19.1 | QP |
| | | V | 3295.0 | 54.2 | -16.1 | 38.0 | 54(note1) | -16.0 | PK |
| | | V | 4924.0 | 50.2 | -11.4 | 38.9 | 54(note1) | -15.1 | PK |
| | | V | 7386.0 | 47.1 | -3.4 | 43.7 | 54(note1) | -10.3 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(40MHz)

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| Chain 0 | 3 | V | 2417.7 | 68.6 | 31.2 | 99.8 | Fundamental | / | PK |
| | | V | 365.0 | 8.6 | 22.4 | 31.0 | 46 | -15.0 | QP |
| | | V | 399.7 | 6.4 | 23.7 | 30.1 | 46 | -15.9 | QP |
| | | V | 3295.0 | 54.2 | -16.1 | 38.0 | 54(note1) | -16.0 | PK |
| | | V | 4842.0 | 56.0 | -11.5 | 44.5 | 54(note1) | -9.5 | PK |
| | | V | 7266.0 | 46.4 | -3.4 | 43.0 | 54(note1) | -11.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 75.8 | 31.2 | 107.0 | Fundamental | / | PK |
| | | V | 433.2 | 7.0 | 24.2 | 31.2 | 46 | -14.8 | QP |
| | | V | 499.7 | 10.3 | 25.3 | 35.6 | 46 | -10.4 | QP |
| | | V | 3601.0 | 52.5 | -15.2 | 37.4 | 54(note1) | -16.6 | PK |
| | | V | 4874.0 | 51.9 | -11.6 | 40.3 | 54(note1) | -13.7 | PK |
| | | V | 7311.0 | 46.9 | -3.6 | 43.2 | 54(note1) | -10.8 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 9 | V | 2447.7 | 68.8 | 31.2 | 100.0 | Fundamental | / | PK |
| | | V | 564.2 | 8.9 | 26.6 | 35.6 | 46 | -10.4 | QP |
| | | V | 633.0 | 8.5 | 27.3 | 35.7 | 46 | -10.3 | QP |
| | | V | 3601.0 | 52.5 | -15.2 | 37.4 | 54(note1) | -16.6 | PK |
| | | V | 4904.0 | 50.0 | -11.6 | 38.3 | 54(note1) | -15.7 | PK |
| | | V | 7356.0 | 46.4 | -3.6 | 42.8 | 54(note1) | -11.2 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 1 | 3 | V | 2411.7 | 69.7 | 31.2 | 100.9 | Fundamental | / | PK |
| | | V | 697.4 | 6.9 | 27.7 | 34.7 | 46 | -11.3 | QP |
| | | V | 799.6 | 8.6 | 28.6 | 37.2 | 46 | -8.8 | QP |
| | | V | 3227.0 | 55.4 | -16.1 | 39.3 | 54(note1) | -14.7 | PK |
| | | V | 4844.0 | 49.5 | -11.4 | 38.1 | 54(note1) | -15.9 | PK |
| | | V | 7266.0 | 47.7 | -3.4 | 44.3 | 54(note1) | -9.7 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 69.5 | 31.2 | 100.7 | Fundamental | / | PK |
| | | V | 233.2 | 10.1 | 17.3 | 27.4 | 46 | -18.6 | QP |
| | | V | 262.0 | 6.7 | 19.9 | 26.6 | 46 | -19.4 | QP |
| | | V | 3252.5 | 54.6 | -16.1 | 38.5 | 54(note1) | -15.5 | PK |
| | | V | 4874.0 | 50.3 | -11.6 | 38.7 | 54(note1) | -15.3 | PK |
| | | V | 7311.0 | 47.5 | -3.6 | 43.9 | 54(note1) | -10.1 | PK |

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|---|---|
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 9 | V | 2445.0 | 68.8 | 31.2 | 100.0 | Fundamental | / | PK |
| | | V | 300.1 | 5.6 | 20.5 | 26.1 | 46 | -19.9 | QP |
| | | V | 338.1 | 5.9 | 21.6 | 27.5 | 46 | -18.5 | QP |
| | | V | 3295.0 | 53.3 | -16.1 | 37.2 | 54(note1) | -16.8 | PK |
| | | V | 4904.0 | 50.3 | -11.6 | 38.6 | 54(note1) | -15.4 | PK |
| | | V | 7356.0 | 46.2 | -3.6 | 42.6 | 54(note1) | -11.4 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| Chain 0+1 | 3 | V | 2418.0 | 72.8 | 31.2 | 104.0 | Fundamental | / | PK |
| | | V | 366.5 | 8.3 | 22.5 | 30.8 | 46 | -15.2 | QP |
| | | V | 431.5 | 8.3 | 24.2 | 32.5 | 46 | -13.5 | QP |
| | | V | 3227.0 | 55.3 | -16.1 | 39.3 | 54(note1) | -14.7 | PK |
| | | V | 4833.5 | 54.2 | -11.7 | 42.5 | 54(note1) | -11.5 | PK |
| | | V | 4986.5 | 54.4 | -11.4 | 43.0 | 54(note1) | -11.0 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 6 | V | 2437.0 | 73.2 | 31.2 | 104.4 | Fundamental | / | PK |
| | | V | 464.8 | 5.2 | 24.7 | 29.9 | 46 | -16.1 | QP |
| | | V | 531.0 | 5.8 | 25.8 | 31.6 | 46 | -14.4 | QP |
| | | V | 3286.5 | 53.6 | -16.1 | 37.5 | 54(note1) | -16.5 | PK |
| | | V | 4874.0 | 50.8 | -11.6 | 39.2 | 54(note1) | -14.8 | PK |
| | | V | 7311.0 | 46.7 | -3.6 | 43.1 | 54(note1) | -10.9 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |
| | 9 | V | 2447.6 | 72.4 | 31.2 | 103.6 | Fundamental | / | PK |
| | | V | 624.0 | 8.1 | 27.3 | 35.4 | 46 | -10.6 | QP |
| | | V | 697.1 | 7.2 | 27.7 | 34.9 | 46 | -11.1 | QP |
| | | V | 3286.5 | 53.6 | -16.1 | 37.5 | 54(note1) | -16.5 | PK |
| | | V | 4995.0 | 52.6 | -11.4 | 41.2 | 54(note1) | -12.8 | PK |
| | | V | 7356.0 | 46.6 | -3.6 | 42.9 | 54(note1) | -11.1 | PK |
| | | H | 24000.0 | 59.1 | -8.9 | 50.2 | 54(note1) | -3.8 | PK |

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

# 5. RF Antenna Conducted Spurious

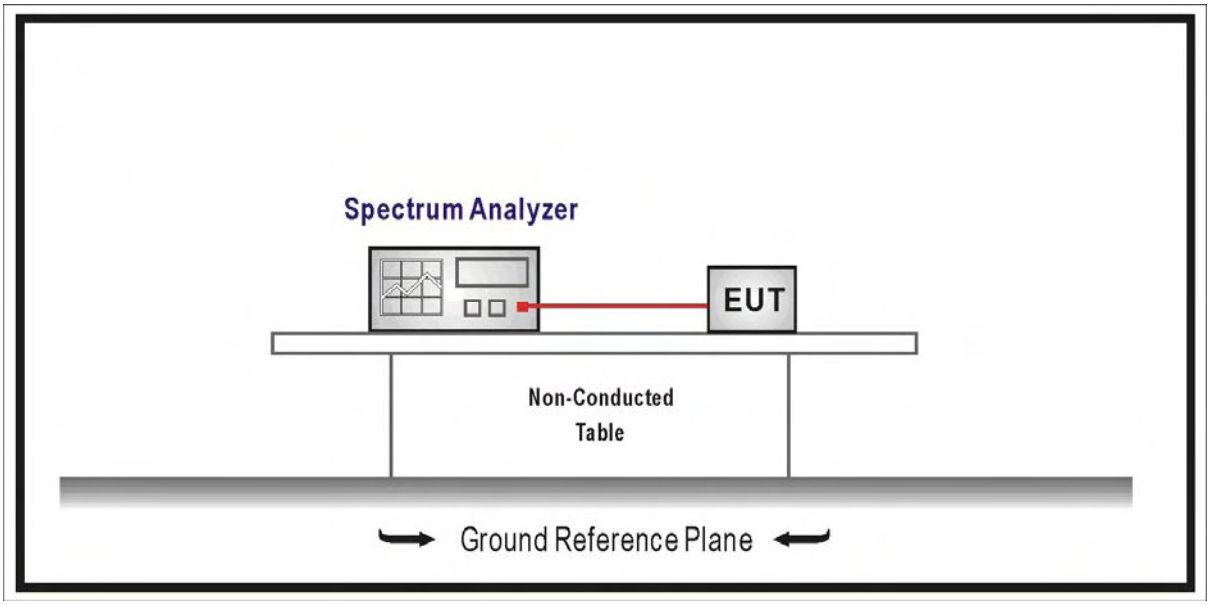
## 5.1. Test Equipment

RF Antenna Conducted Spurious / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|---|---|---|---|---|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2012.04.30 |
| Temperature/Humidity Meter | Zhicheng | ZC1-2 | TR8-TH | 2012.05.04 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 5.2. Test Setup




## 5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

## 5.4. Test Procedure

The EUT was tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

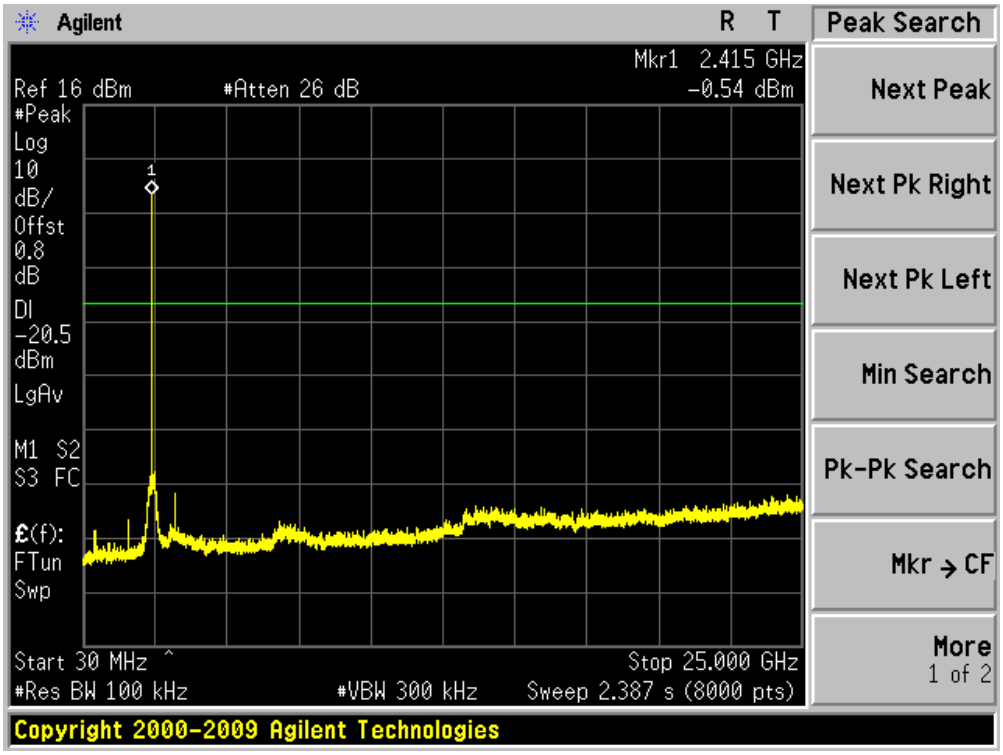
## 5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

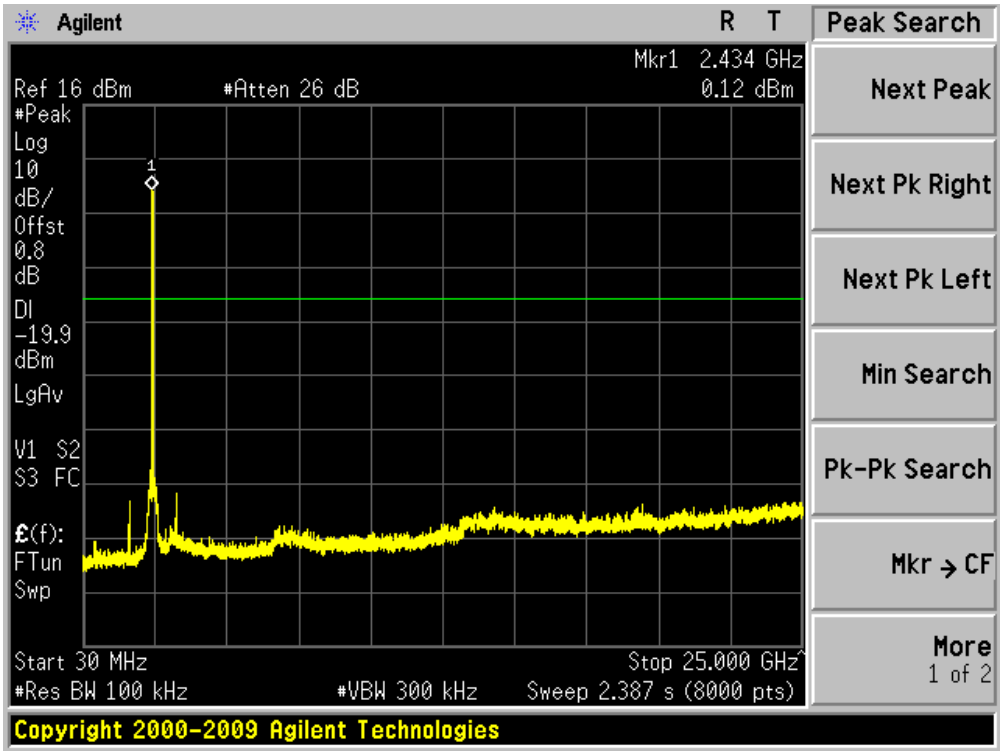
## 5.6. Test Result

| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 0) |

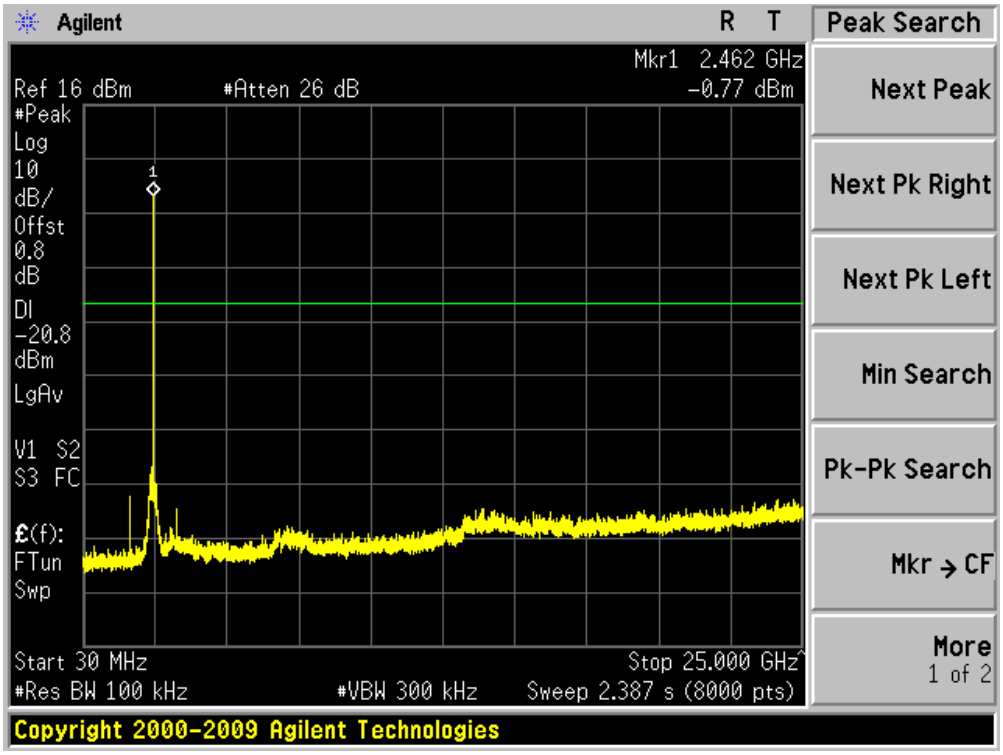
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**

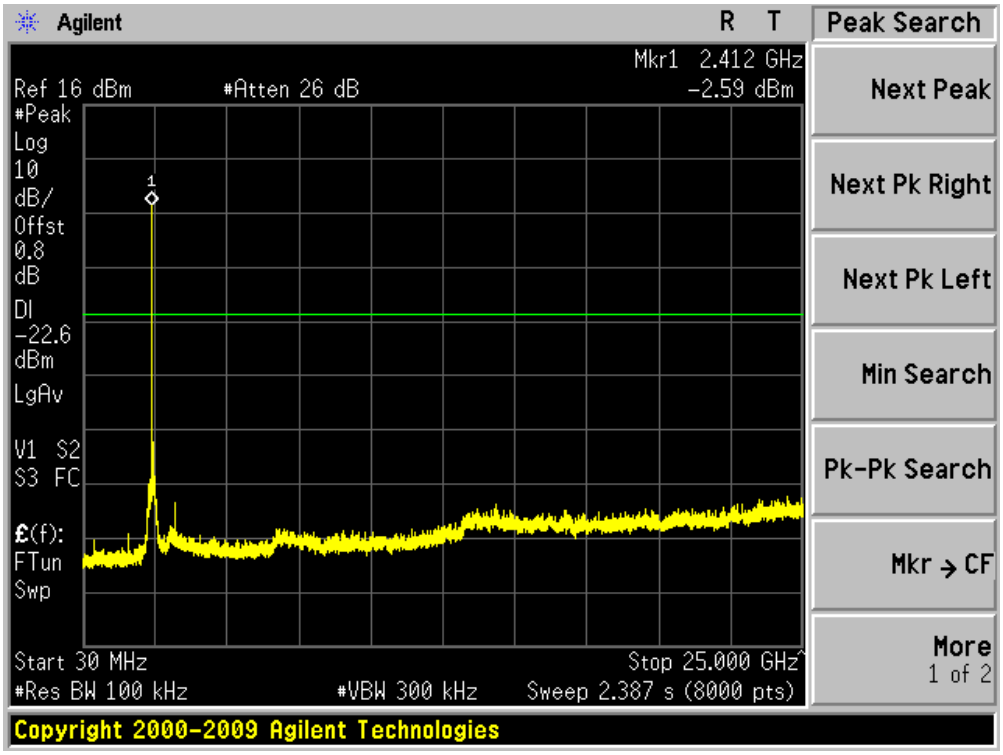



**Channel 11 (2462MHz)**

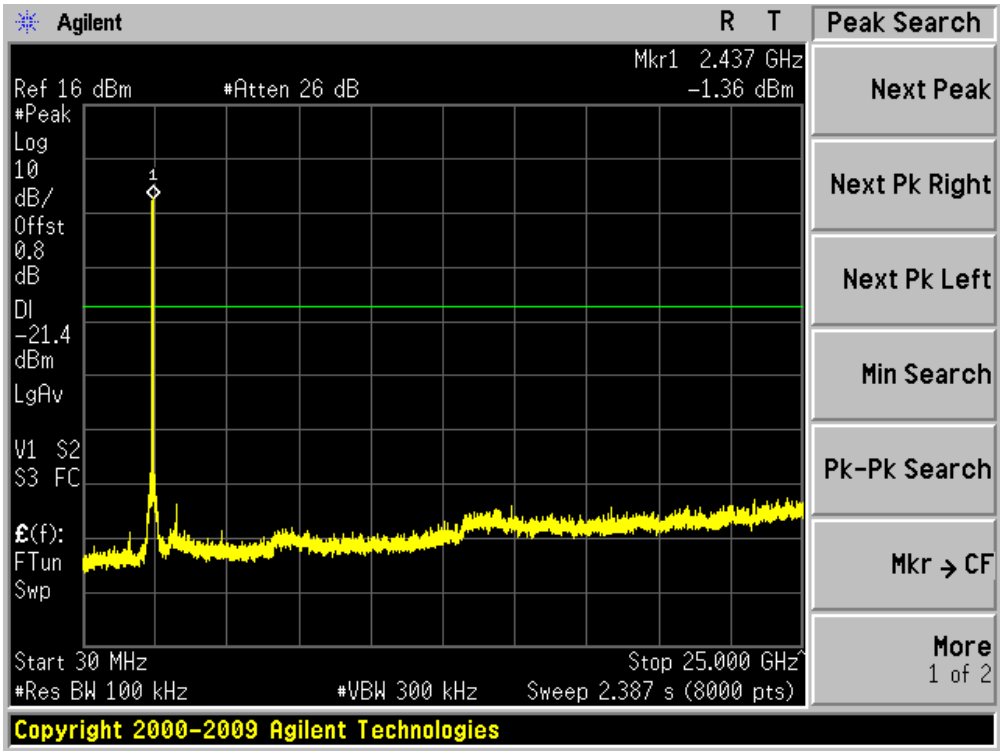


| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 0) |

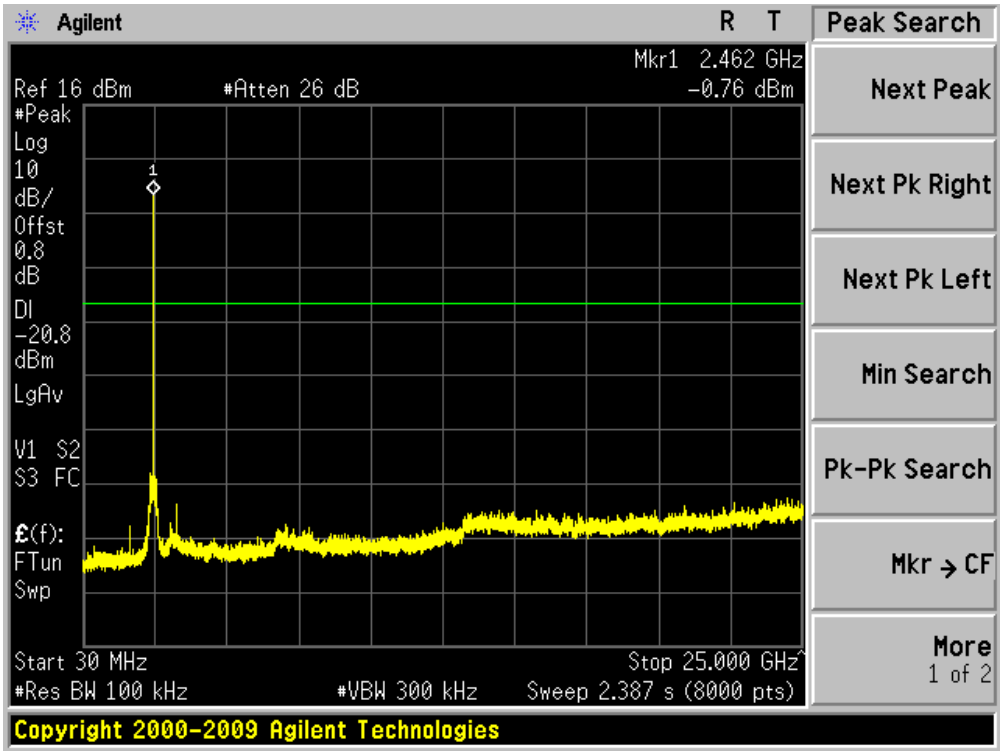
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**

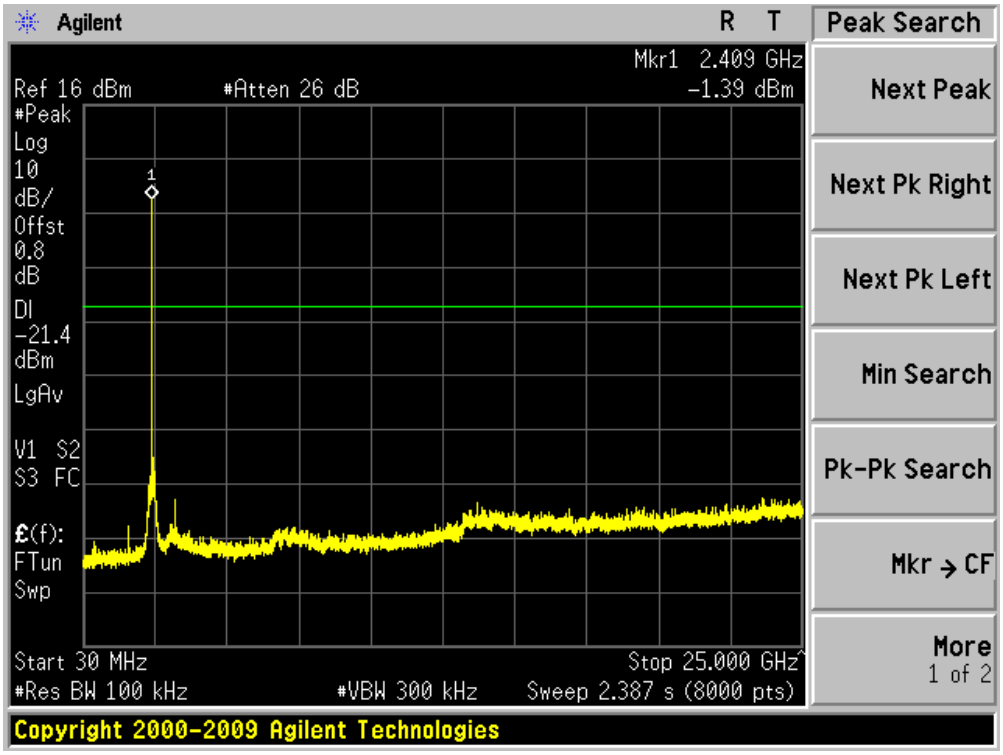



**Channel 11 (2462MHz)**

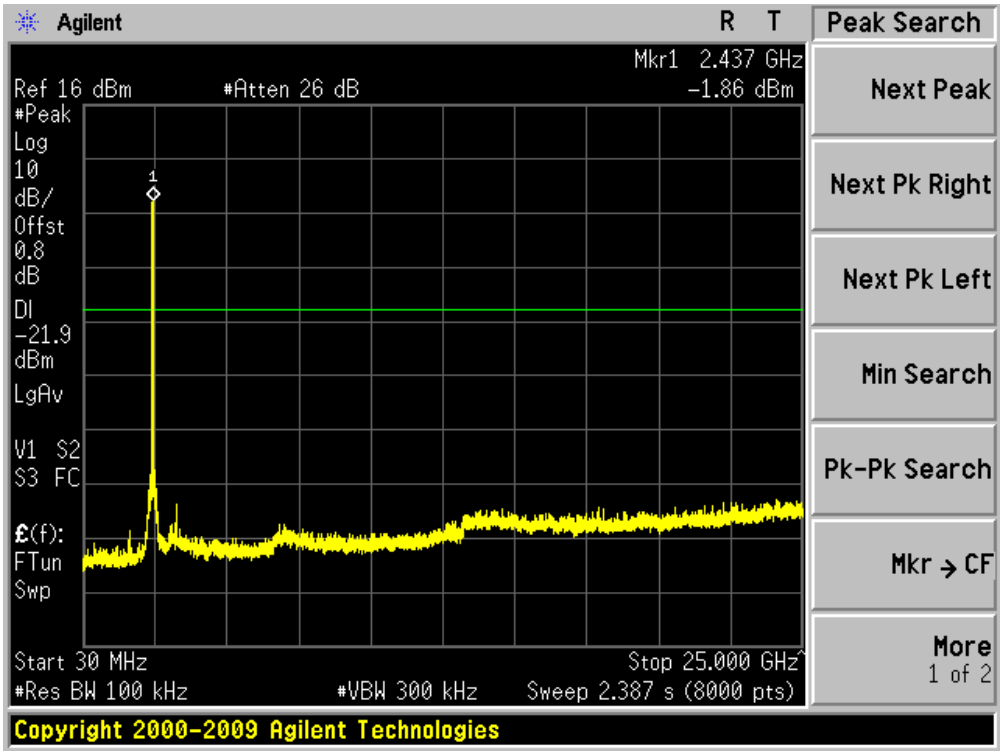


| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n (20MHz)(Chain 0) |

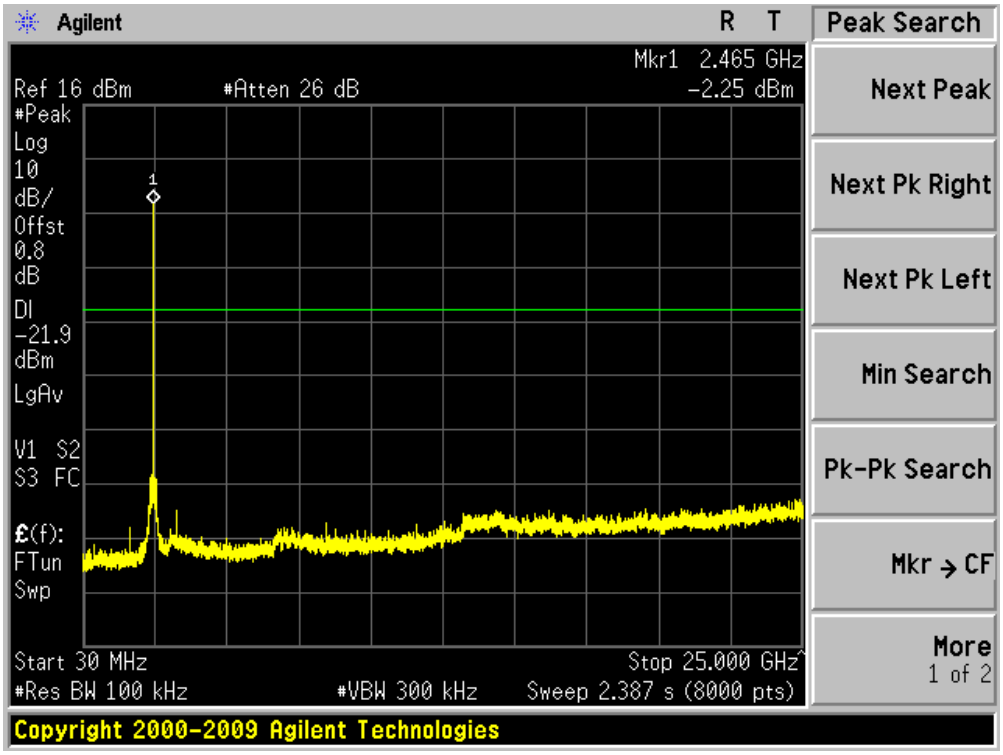
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**

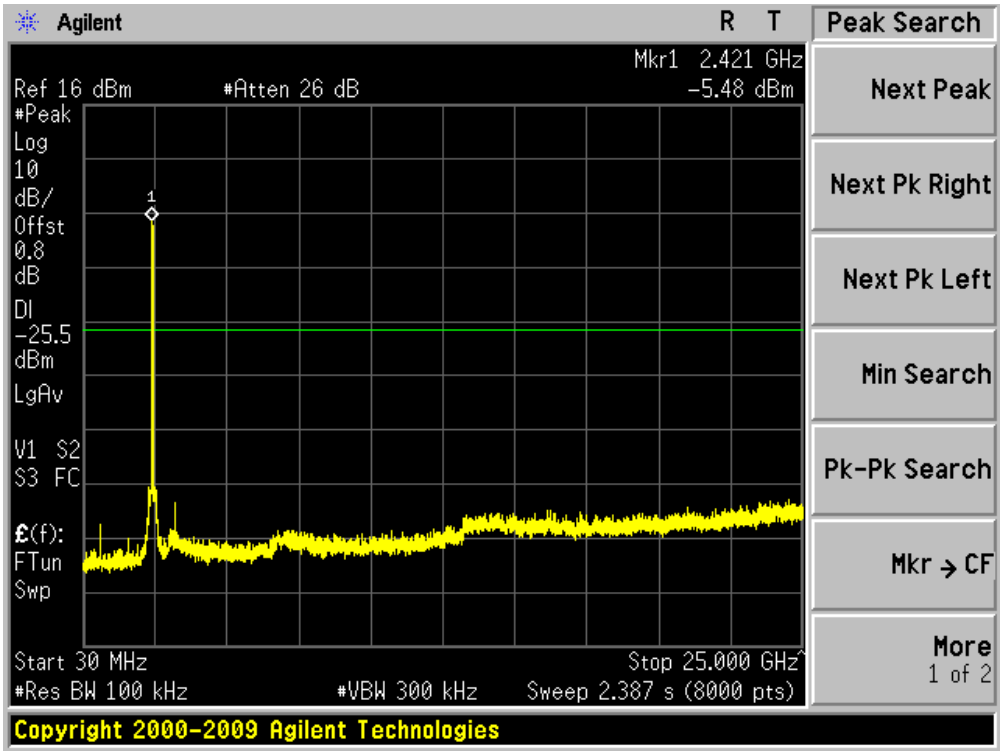



**Channel 11 (2462MHz)**

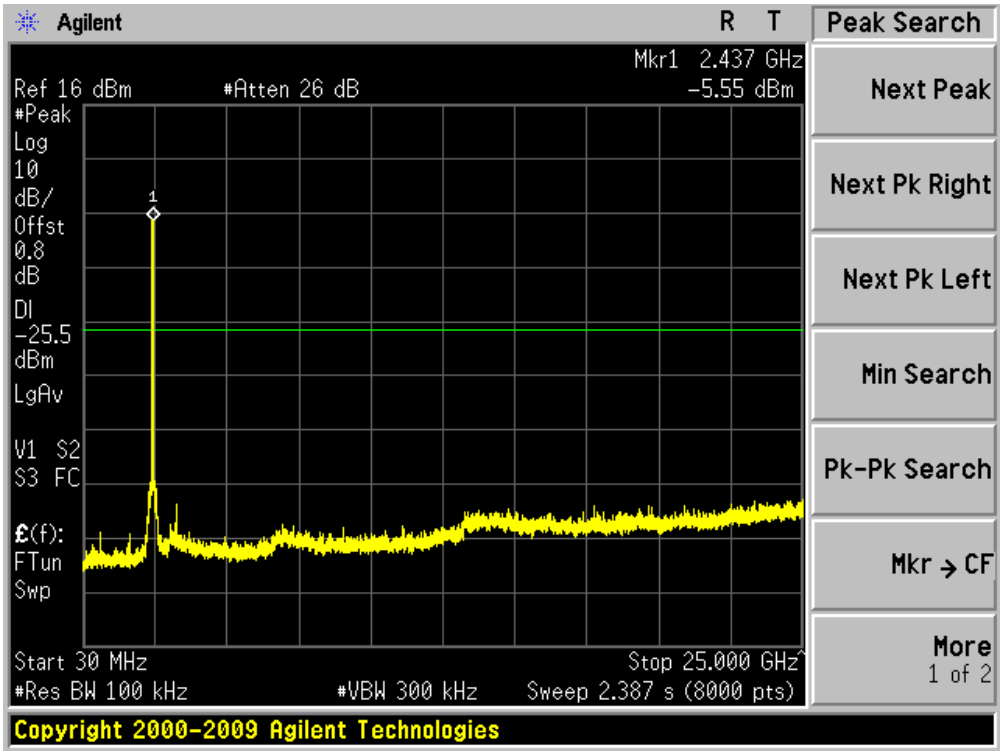


| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (40MHz) (Chain 0) |

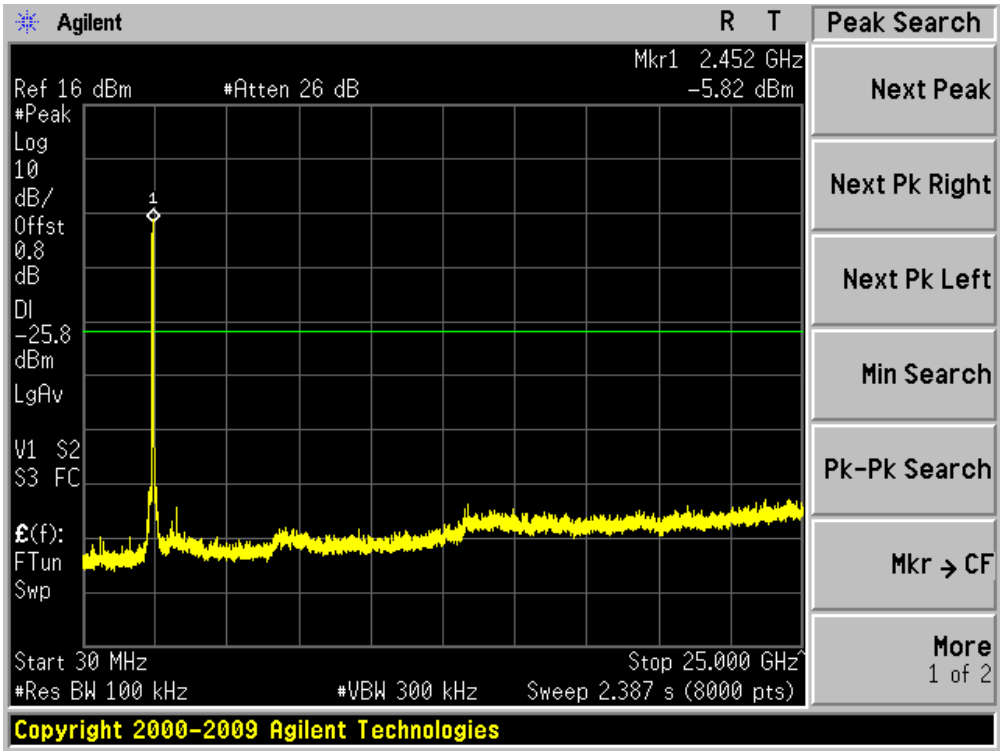
**Channel 03 (2422MHz)**



**Channel 06 (2437MHz)**

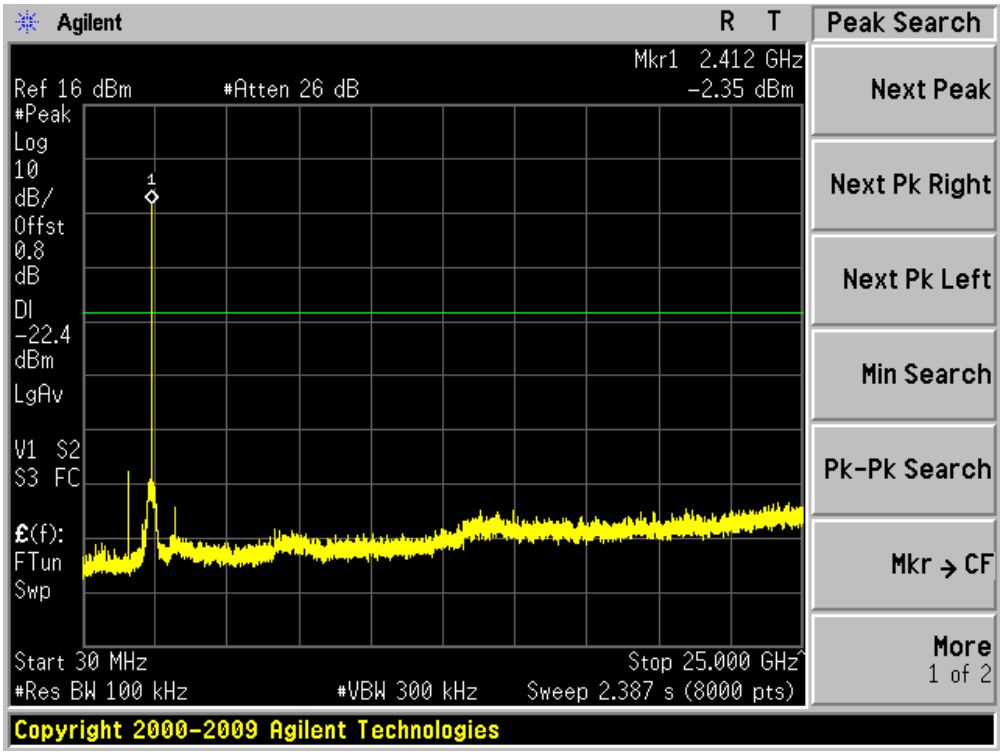



**Channel 09 (2452MHz)**

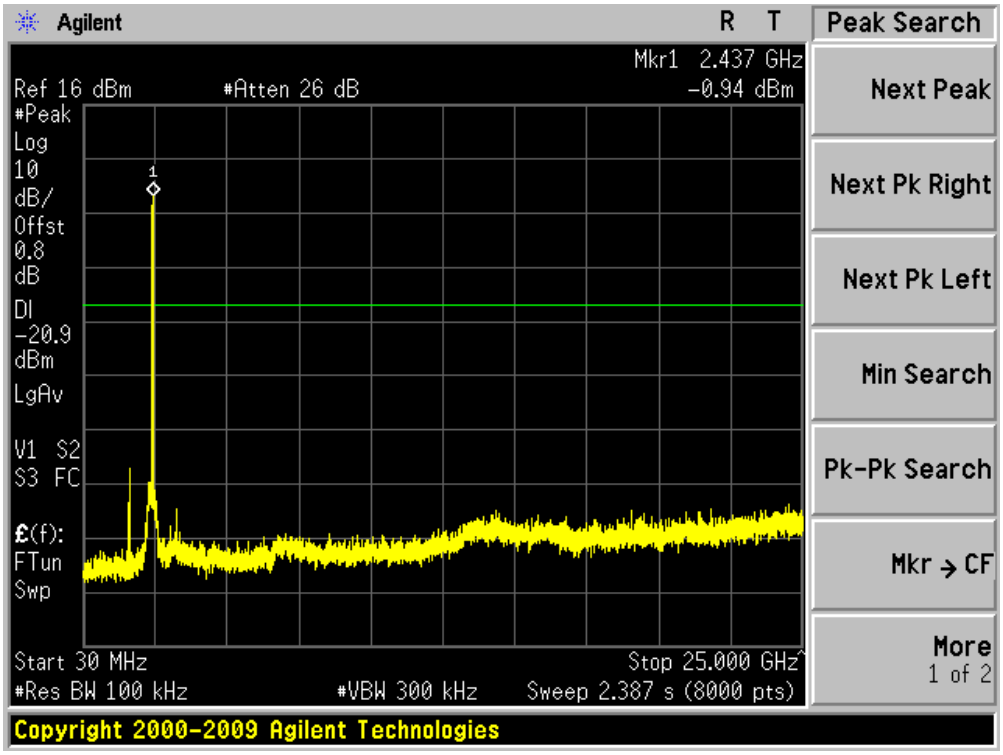


| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 1) |

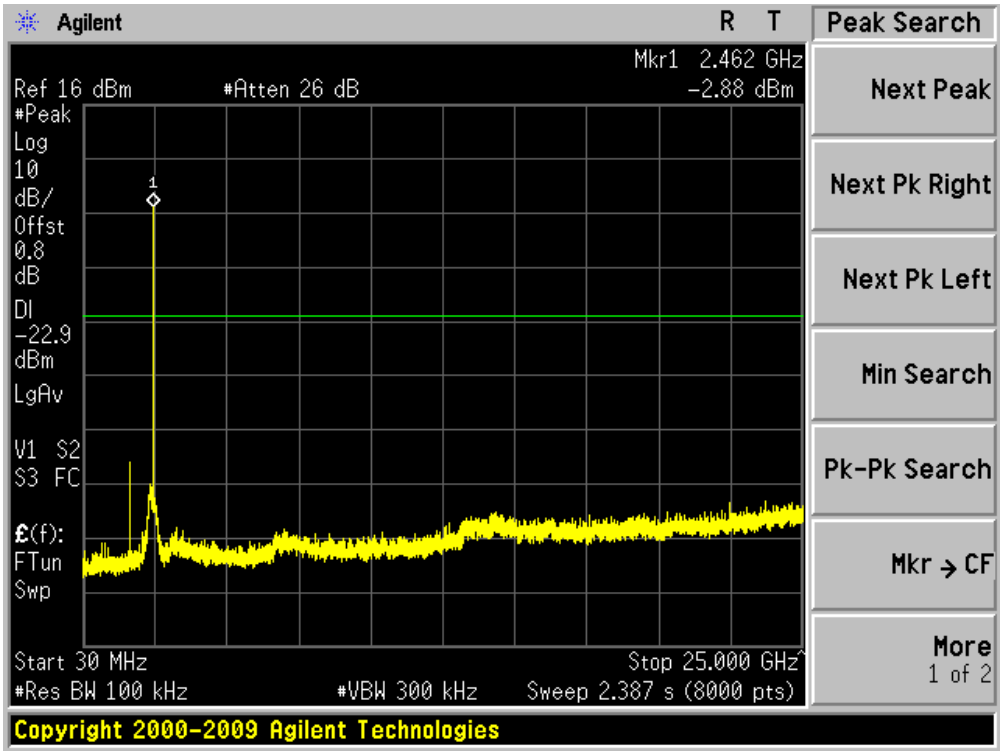
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**

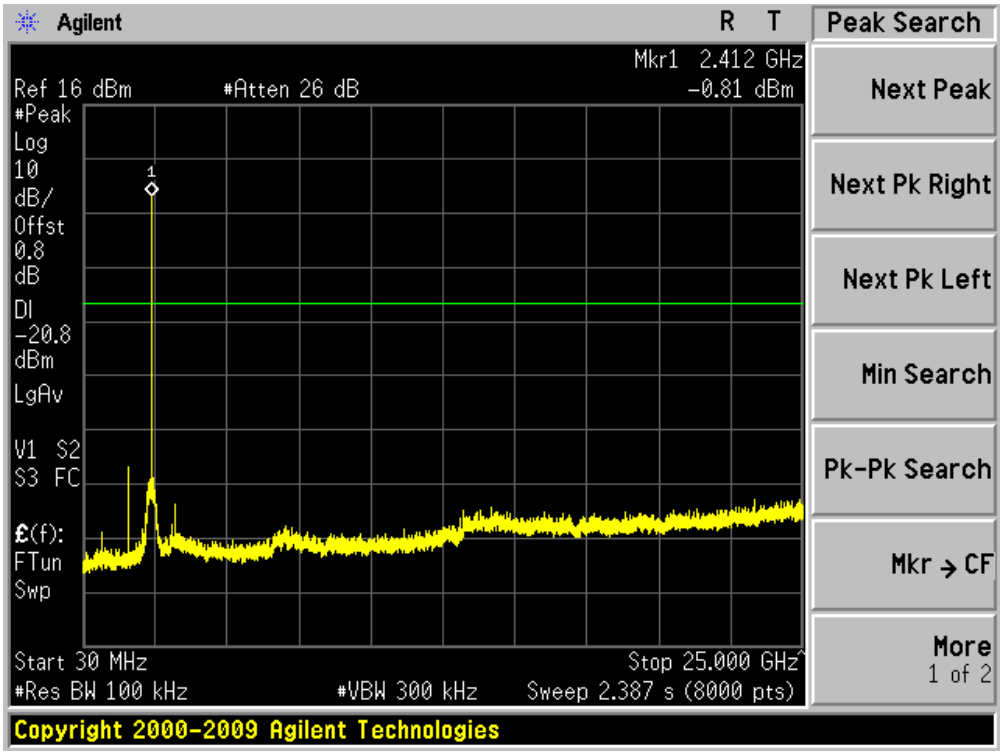



**Channel 11 (2462MHz)**

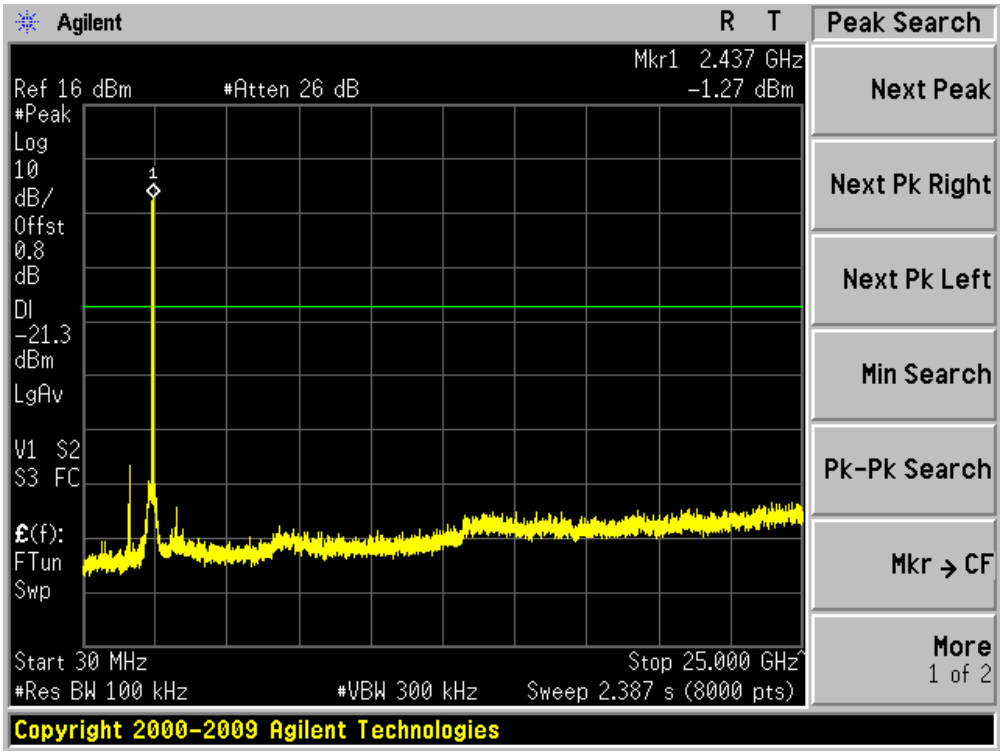


| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 1) |

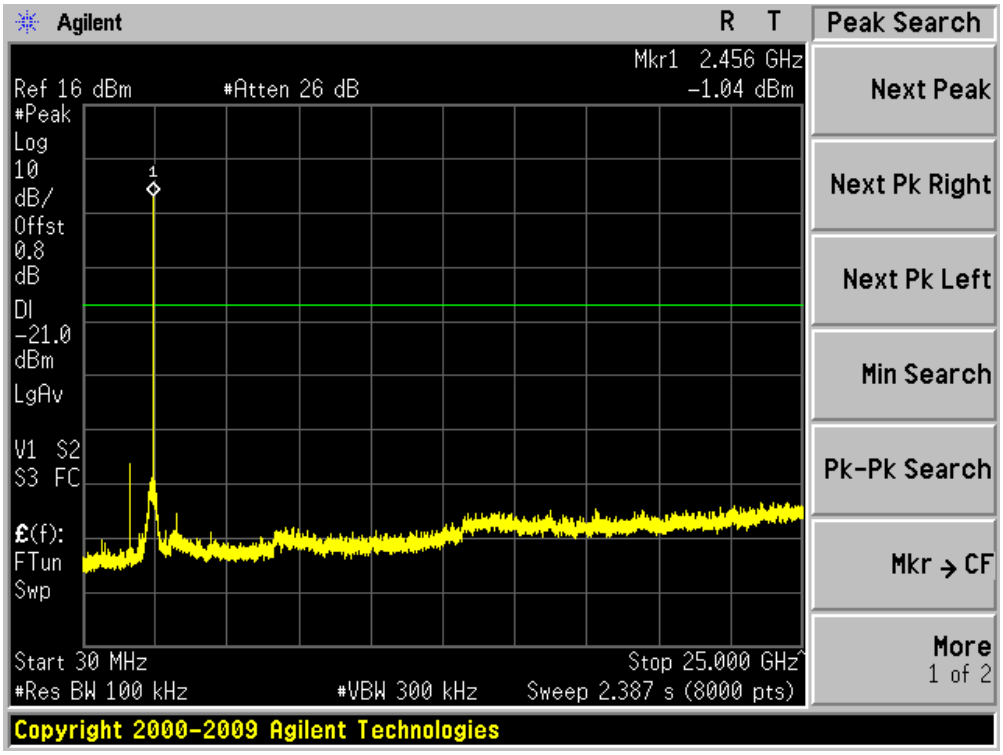
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**

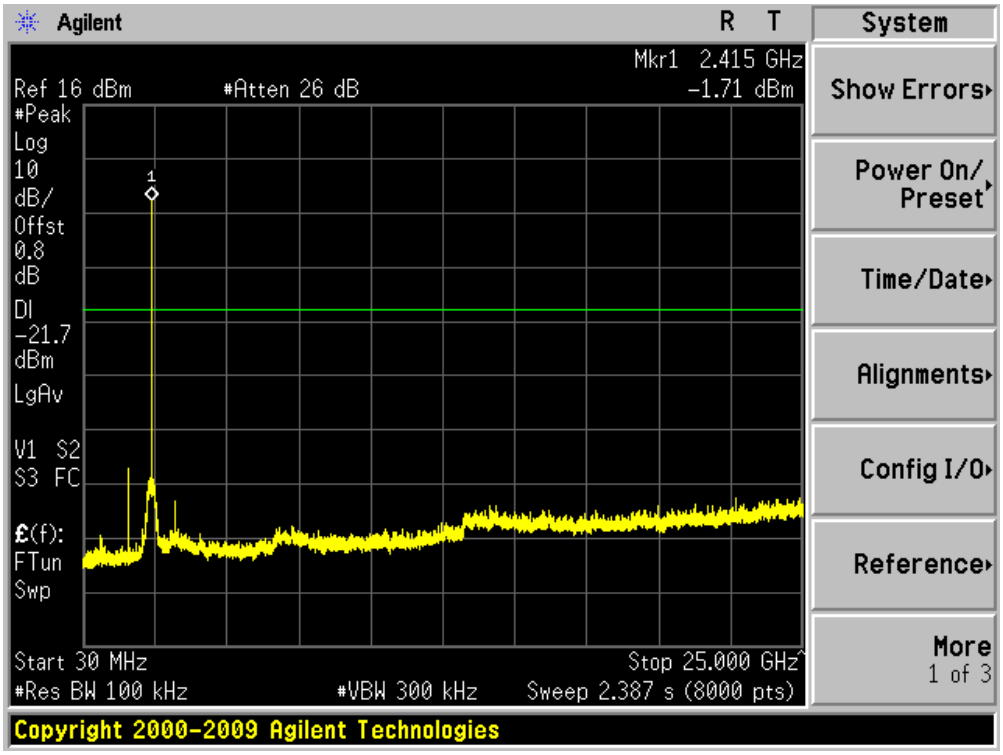



**Channel 11 (2462MHz)**

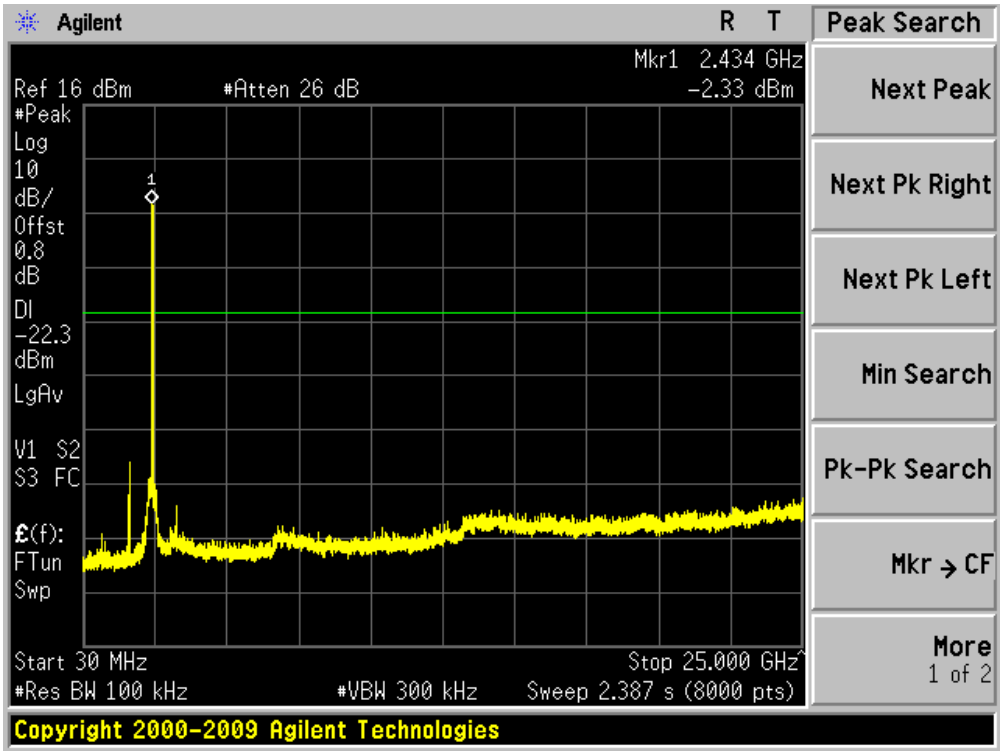


| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n (20MHz) (Chain 1) |

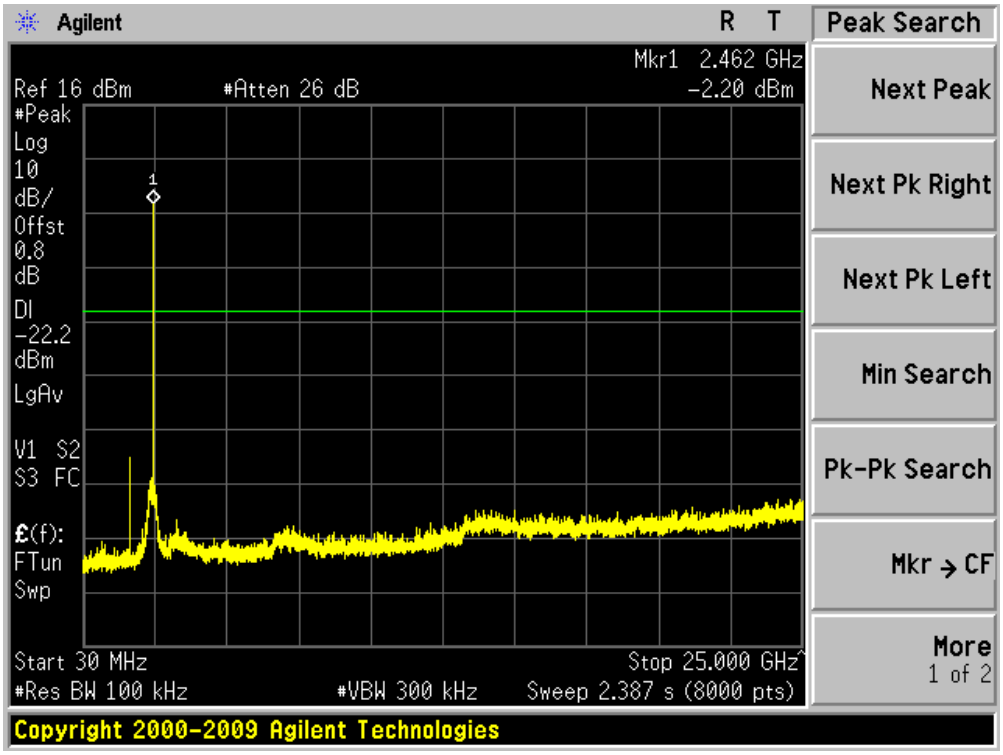
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**

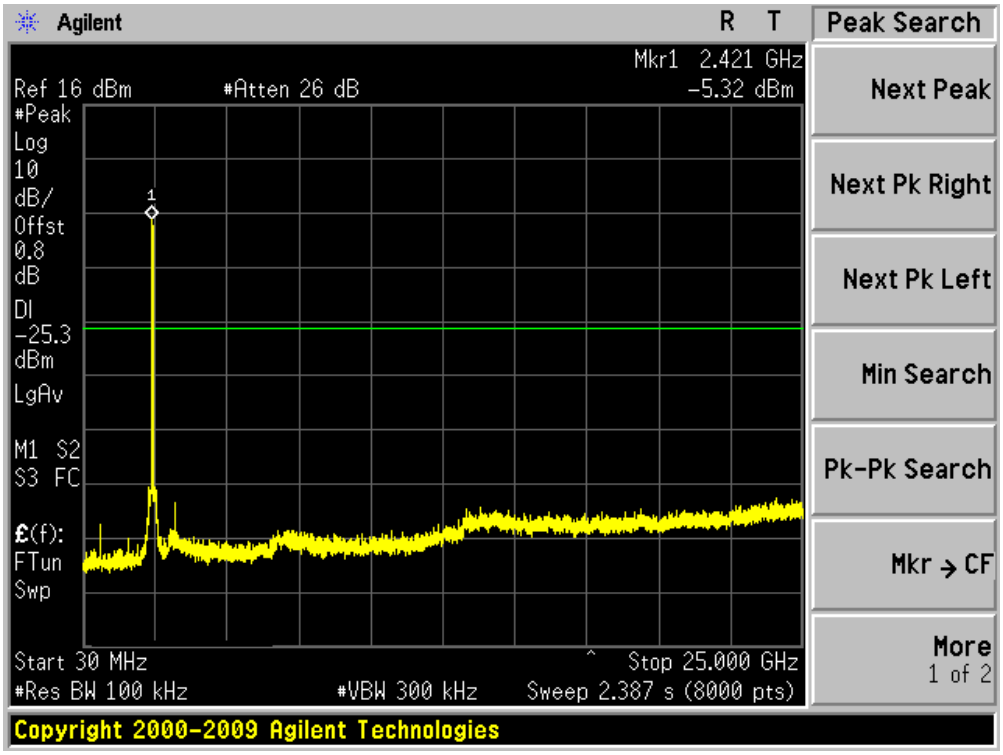



**Channel 11 (2462MHz)**

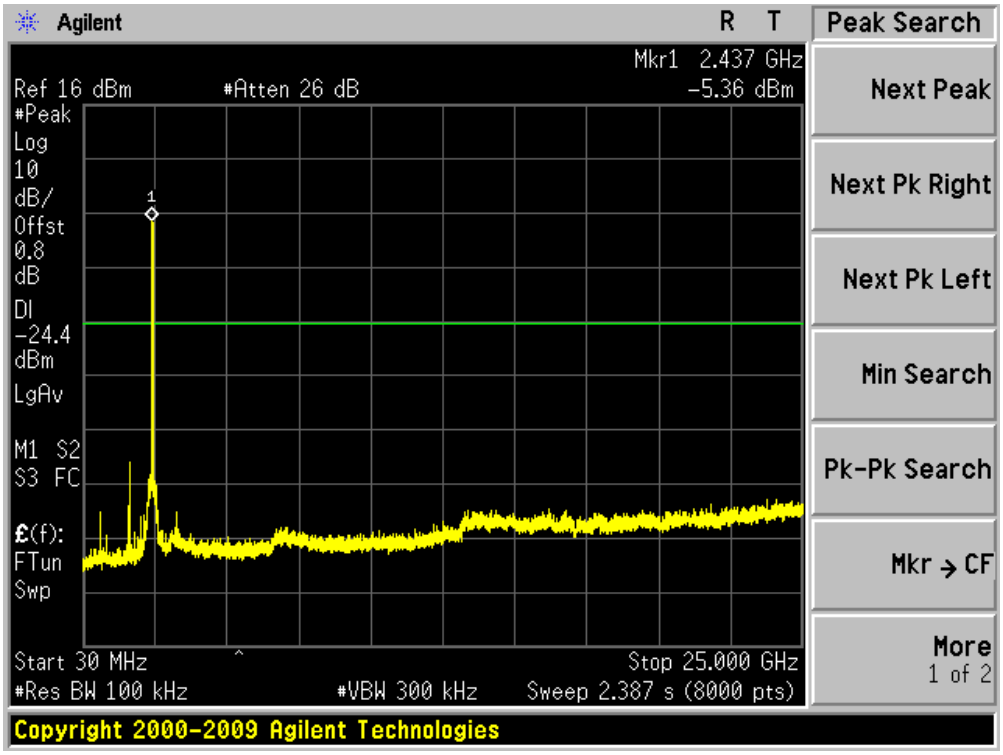


| | | |
|---|---|---|
| Product | : | Wireless LAN Module |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (40MHz) (Chain 1) |

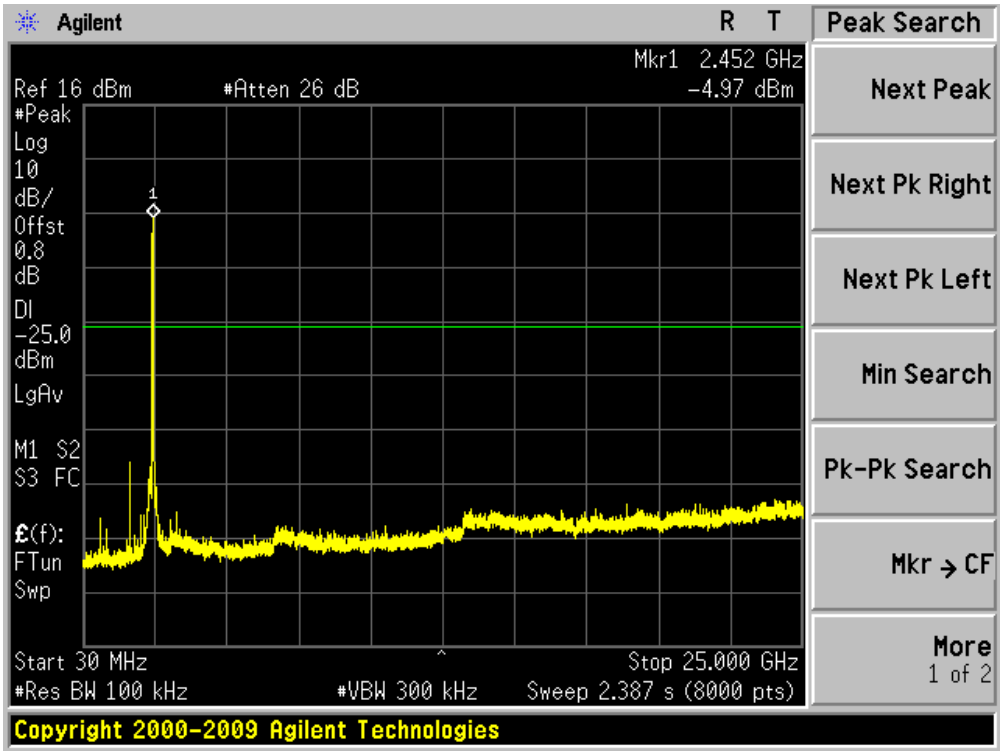
**Channel 03 (2422MHz)**



**Channel 06 (2437MHz)**




**Channel 09 (2452MHz)**



# 6. Radiated Emission Band Edge

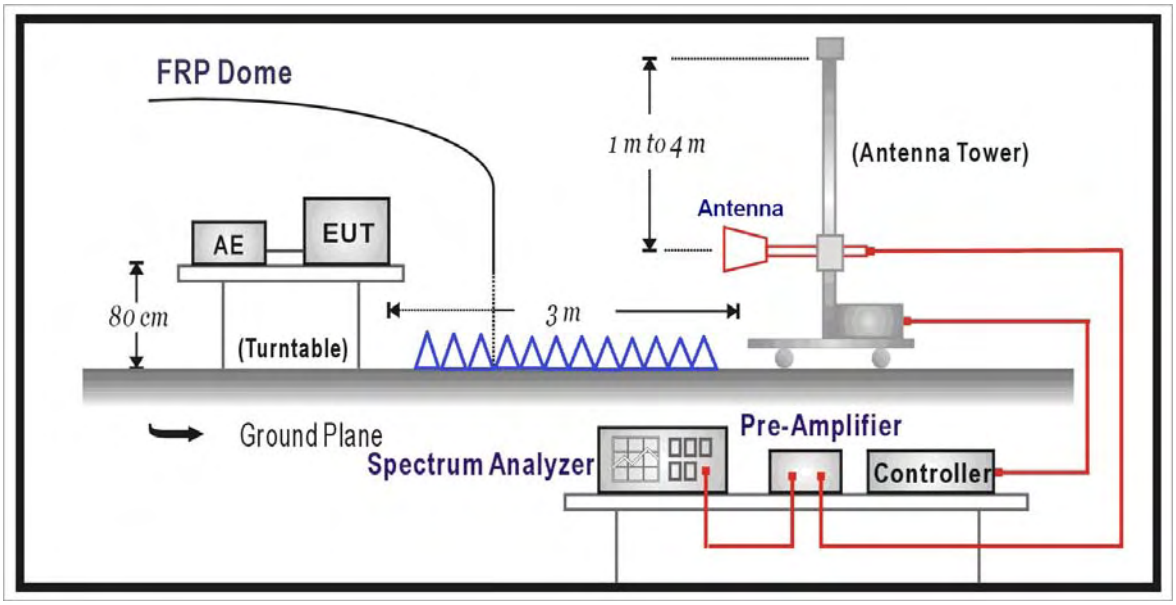
## 6.1. Test Equipment

☒Radiated Emission Band Edge / AC-5

| Instrument | Manufacturer | Type No. | Serial No. | Cali. Due Date |
|---|---|---|---|---|
| Spectrum Analyzer | Agilent | N9010A | MY48030494 | 2012.04.23 |
| EMI Test Receiver | R&S | ESCI | 100573 | 2012.04.23 |
| Preamplifier | Quietek | AP-025C | CHM-0511006 | 2012.04.12 |
| Preamplifier | Quietek | AP-180C | CHM-0602013 | 2012.03.07 |
| Bilog Type Antenna | Schaffner | CBL6112B | 2932 | 2012.10.18 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9120D | 499 | 2012.06.11 |
| 50ohm Coaxial Switch | Anritsu | MP59B | 6200464462 | 2012.05.05 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | AC5-TH | 2012.01.14 |

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 6.2. Test Setup




## 6.3. Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

## 6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10 for compliance to FCC 47CFR 15.247 requirements.
The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

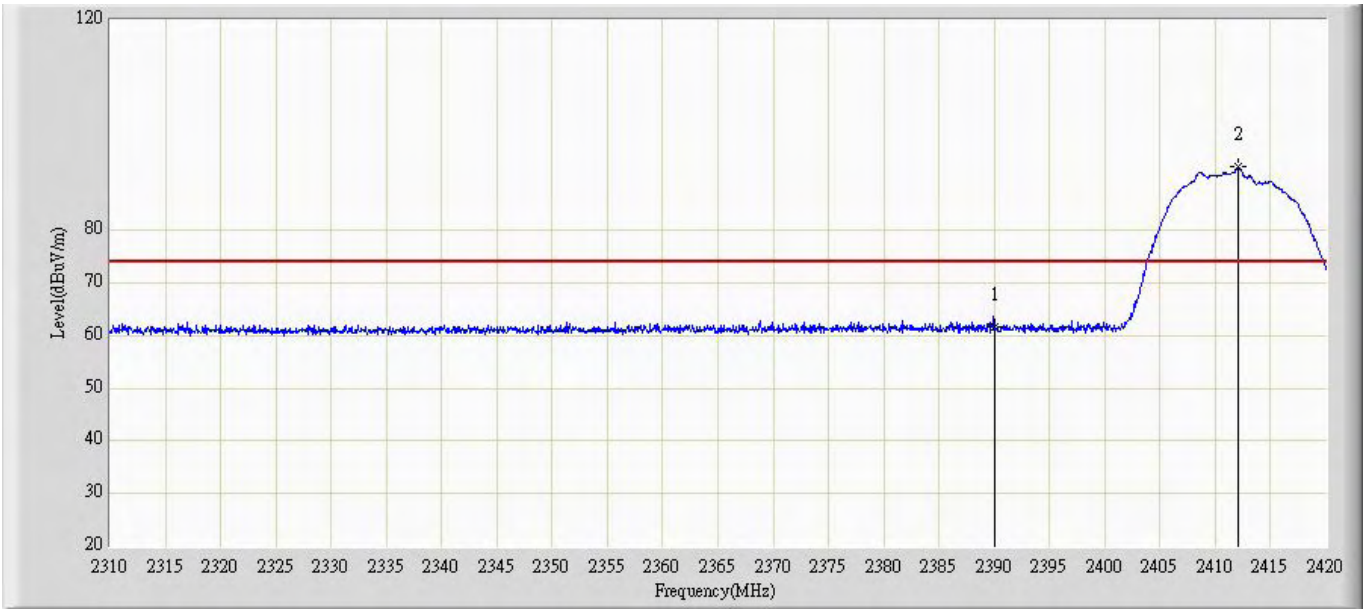
## 6.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

## 6.6. Test Result

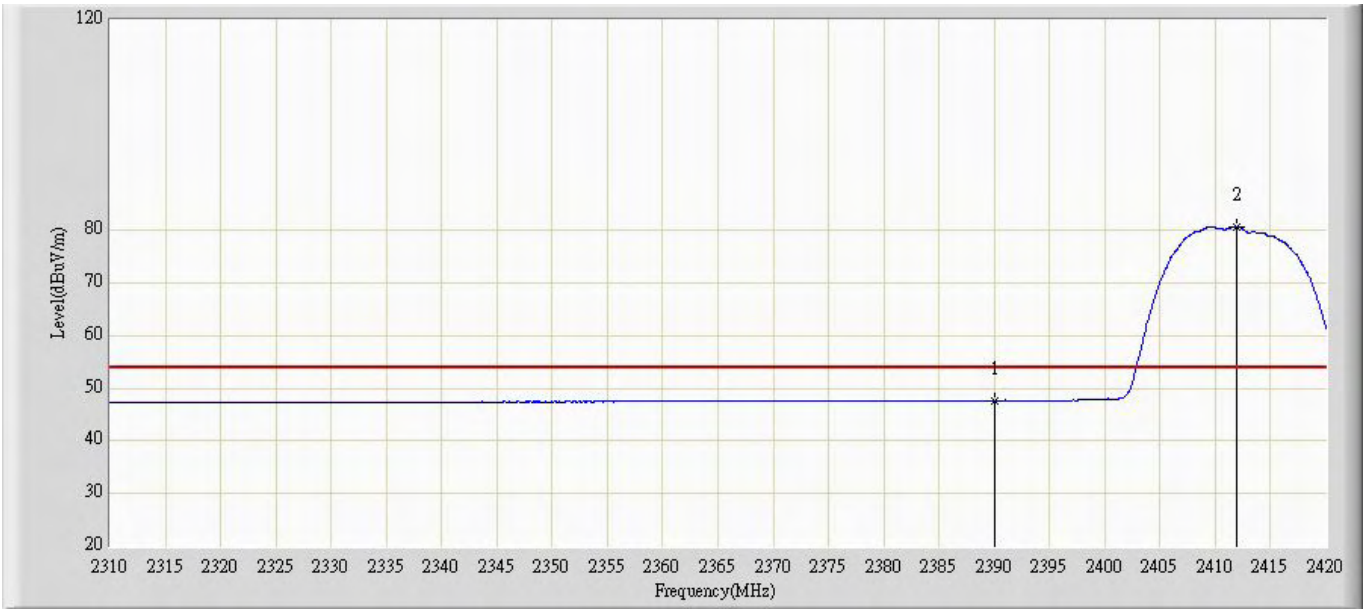
Test by external antenna (Dipole antenna)

| | |
|---|---|
| Profile: 11CS021R | Page No.: 1 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 13:57 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 0) | |



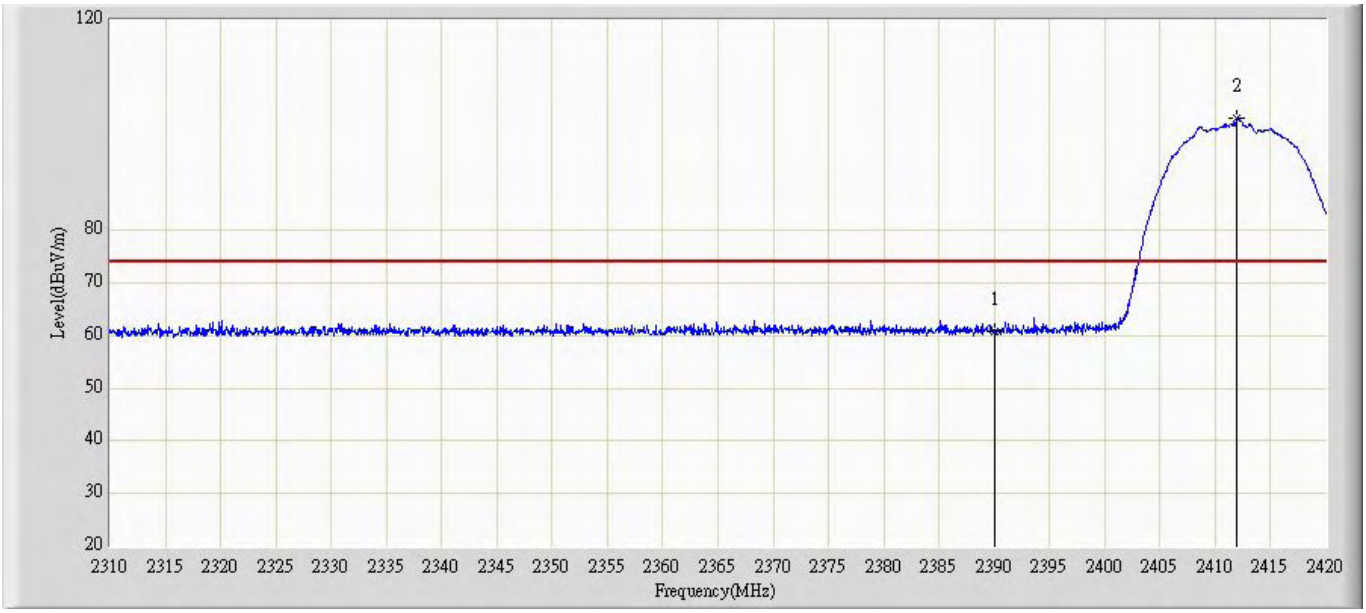

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.807 | 30.622 | -12.193 | 74.000 | 31.185 | PK |
| 2 | | * | 2412.080 | 91.983 | 60.803 | N/A | N/A | 31.180 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 2 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:01 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 0) | |



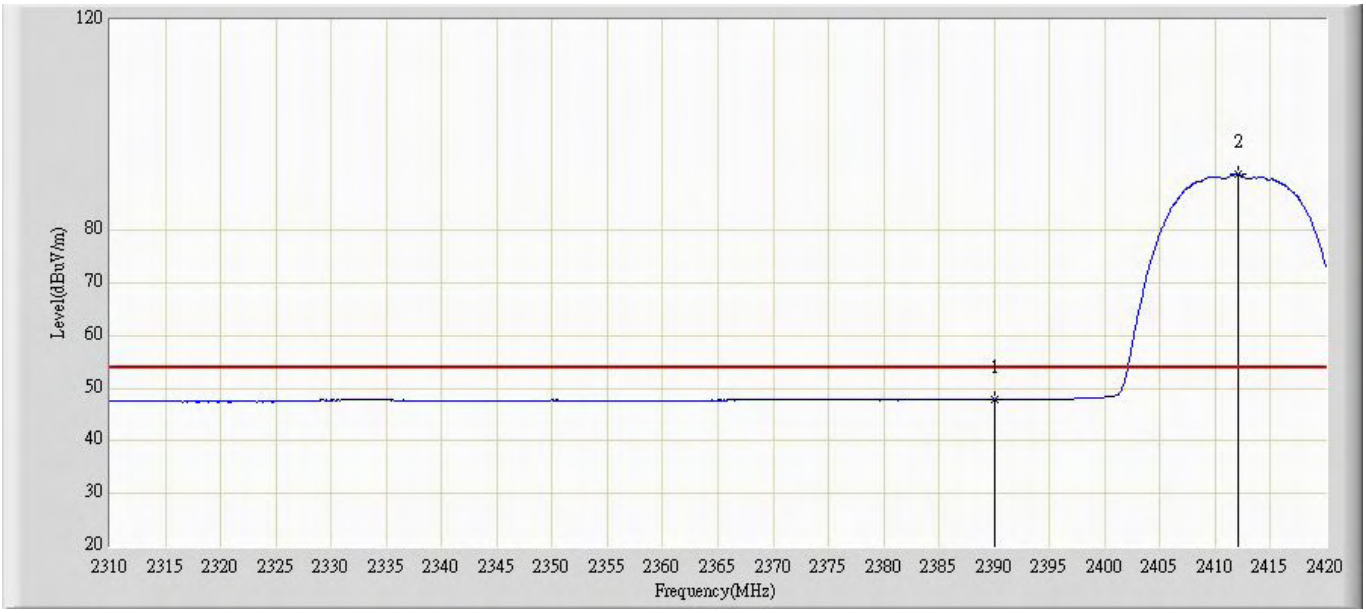

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.672 | 16.487 | -6.328 | 54.000 | 31.185 | AV |
| 2 | | * | 2411.915 | 80.755 | 49.575 | N/A | N/A | 31.180 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 3 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:02 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 0) | |



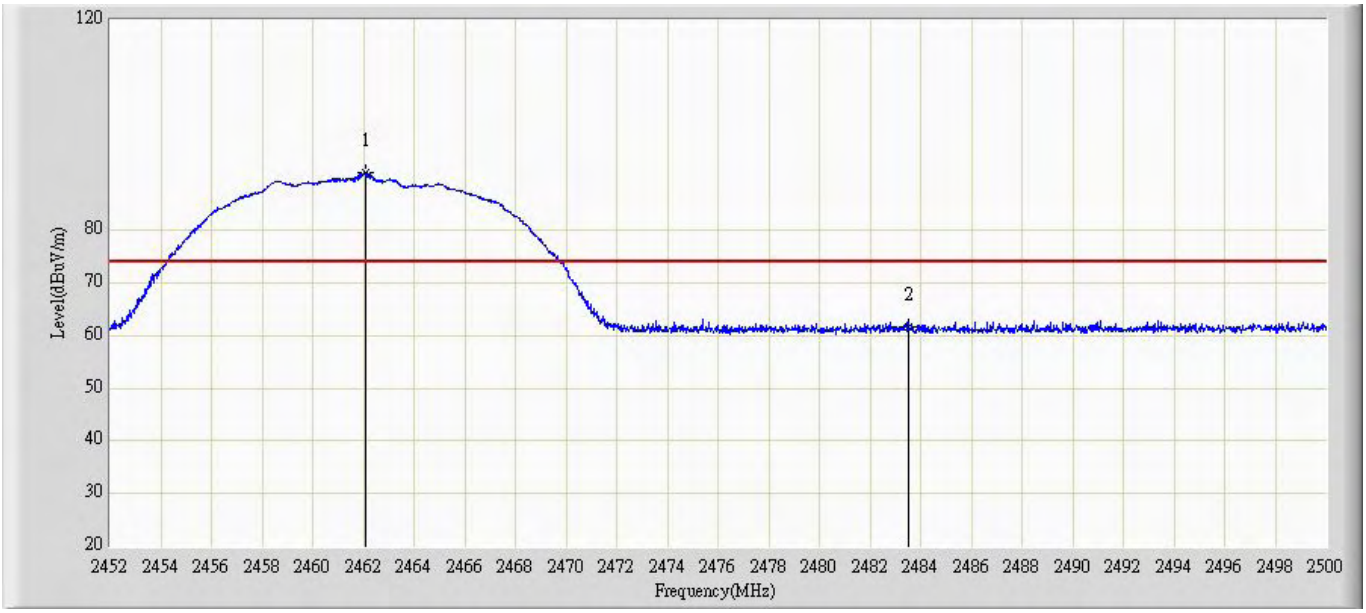

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.828 | 29.643 | -13.172 | 74.000 | 31.185 | PK |
| 2 | | * | 2411.915 | 101.219 | 70.039 | N/A | N/A | 31.180 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 4 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:08 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 0) | |



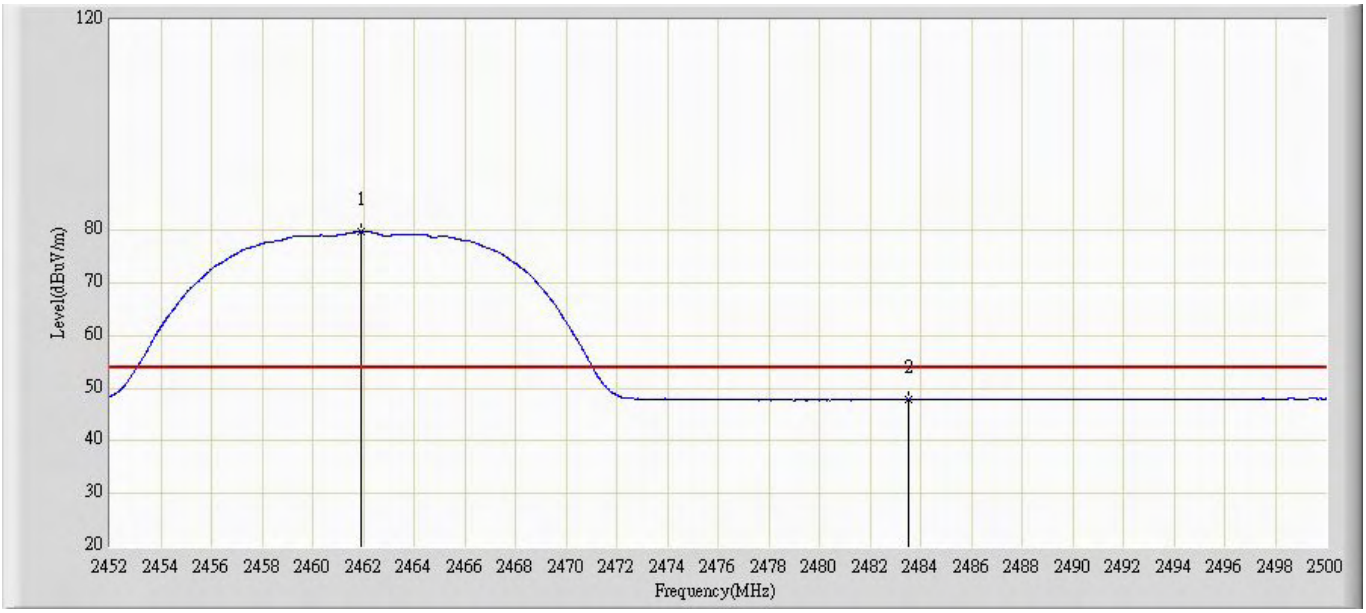

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.829 | 16.644 | -6.171 | 54.000 | 31.185 | AV |
| 2 | | * | 2412.080 | 90.669 | 59.489 | N/A | N/A | 31.180 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 5 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 0) | |



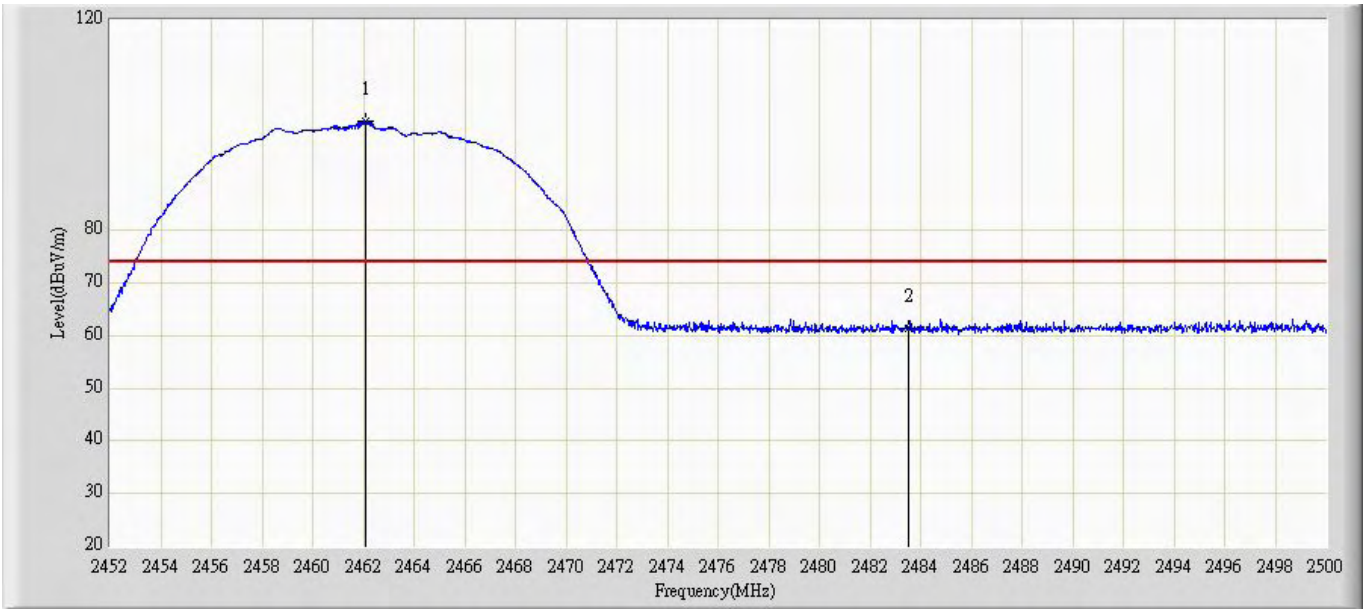

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.104 | 90.973 | 59.770 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 61.644 | 30.435 | -12.356 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 6 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 0) | |



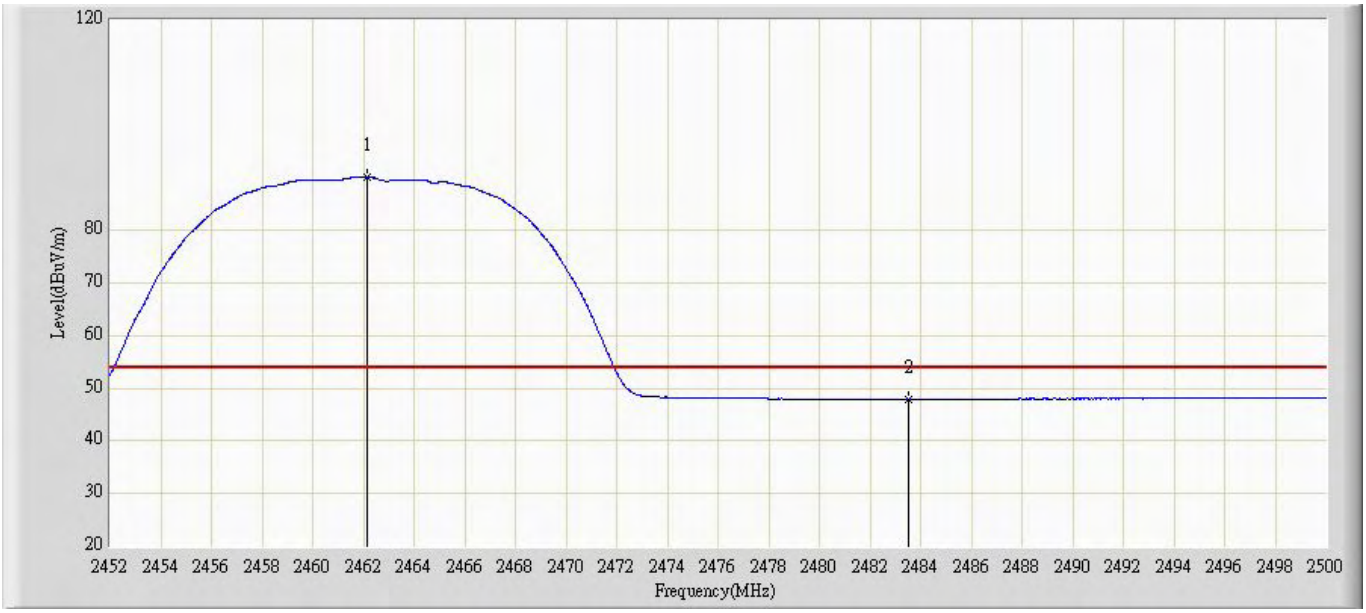

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2461.912 | 79.789 | 48.586 | N/A | N/A | 31.203 | AV |
| 2 | | | 2483.500 | 47.812 | 16.603 | -6.188 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 7 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 0) | |



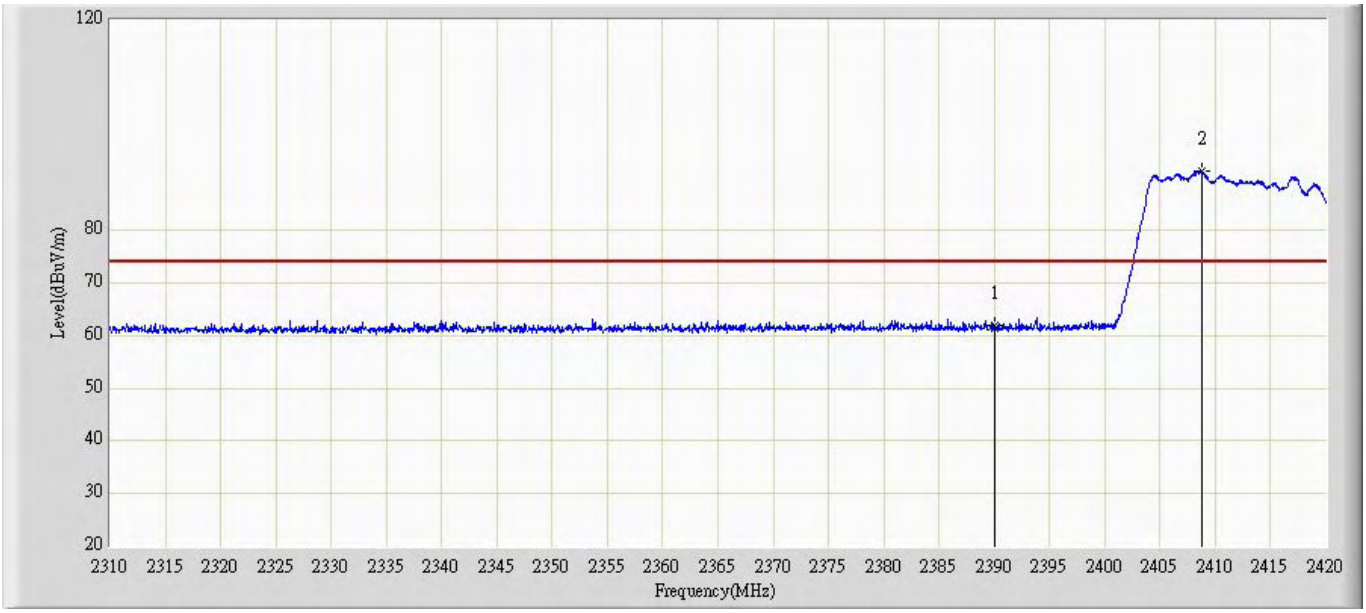

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.080 | 100.868 | 69.665 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 61.328 | 30.119 | -12.672 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 8 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.128 | 90.180 | 58.977 | N/A | N/A | 31.203 | AV |
| 2 | | | 2483.500 | 47.955 | 16.746 | -6.045 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 9 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:46 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.881 | 30.696 | -12.119 | 74.000 | 31.185 | PK |
| 2 | | * | 2408.725 | 91.348 | 60.168 | N/A | N/A | 31.180 | PK |

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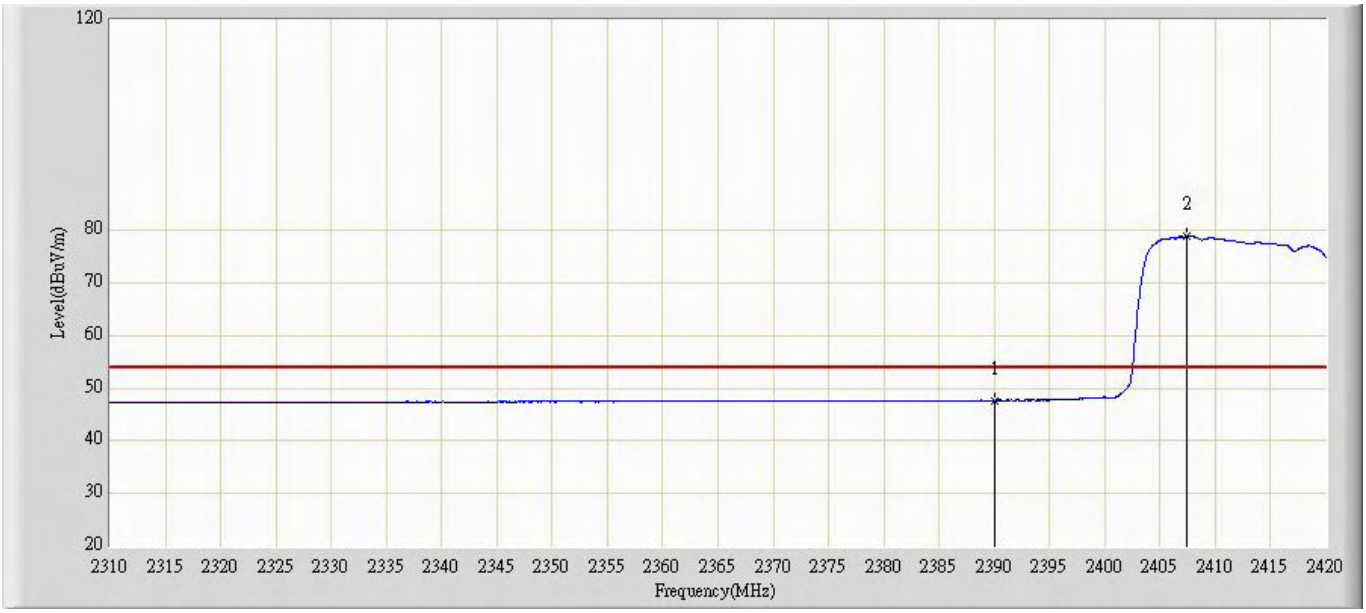
|---|---|
| Profile: 11CS021R | Page No.: 10 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:51 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.697 | 16.512 | -6.303 | 54.000 | 31.185 | AV |
| 2 | | * | 2407.460 | 78.906 | 47.725 | N/A | N/A | 31.181 | AV |

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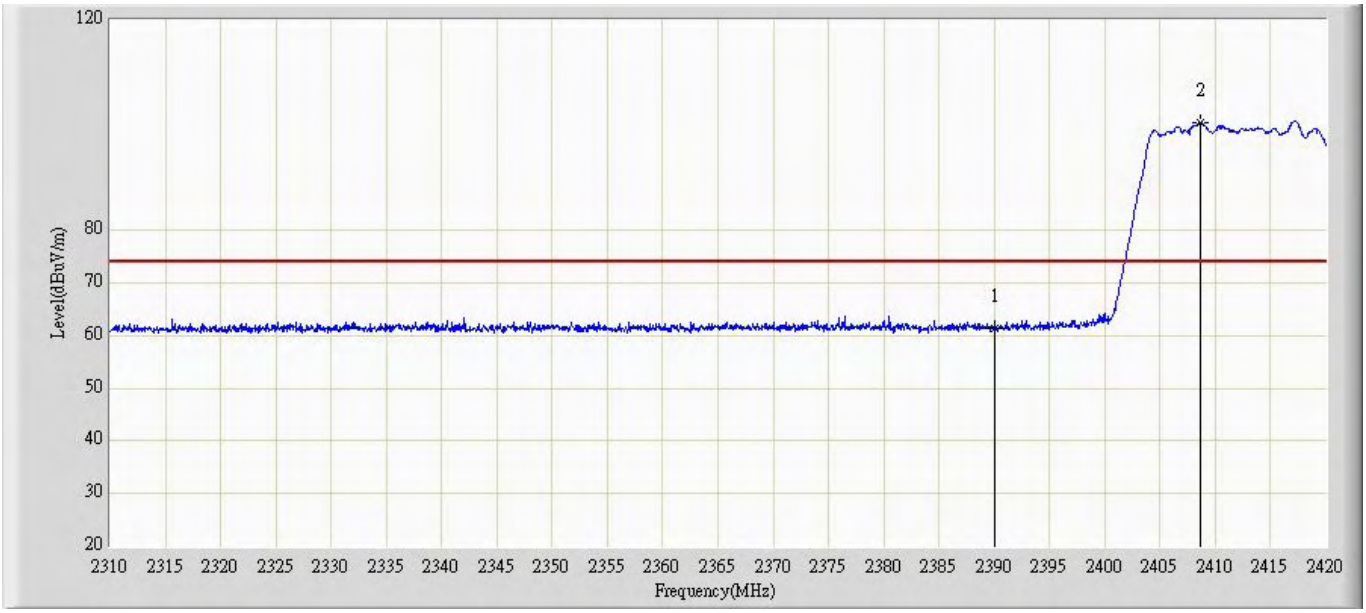
|---|---|
| Profile: 11CS021R | Page No.: 11 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:52 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.267 | 30.082 | -12.733 | 74.000 | 31.185 | PK |
| 2 | | * | 2408.670 | 100.442 | 69.262 | N/A | N/A | 31.180 | PK |

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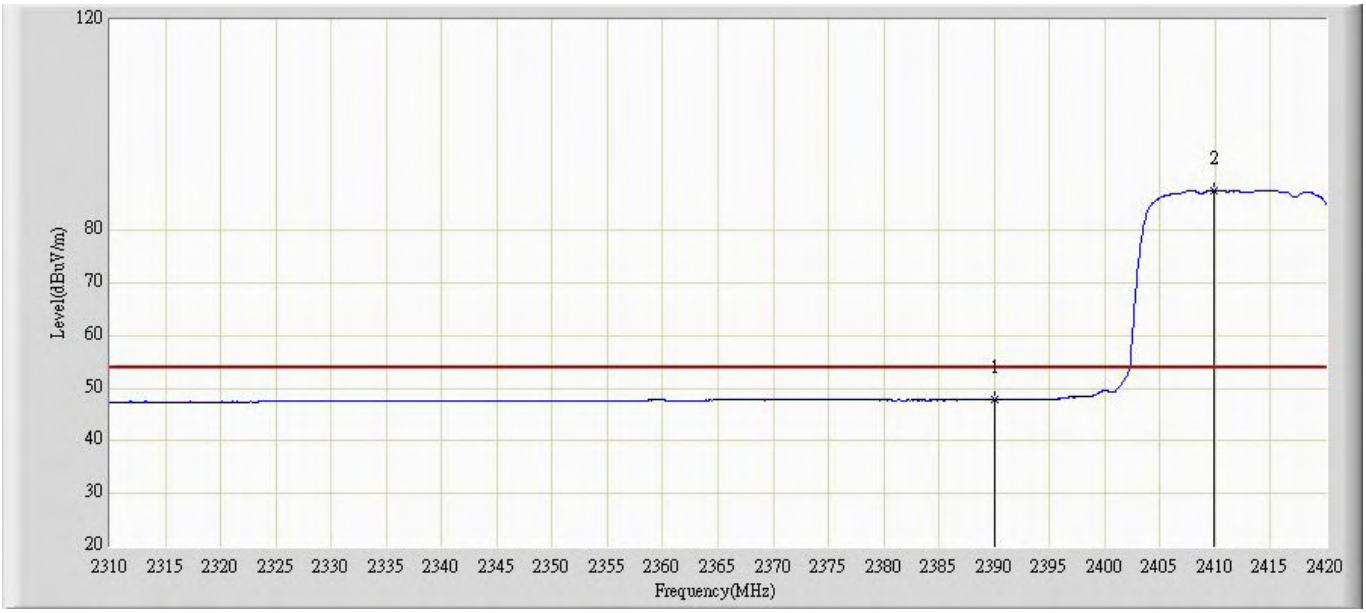
|---|---|
| Profile: 11CS021R | Page No.: 12 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 14:57 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.810 | 16.625 | -6.190 | 54.000 | 31.185 | AV |
| 2 | | * | 2409.825 | 87.572 | 56.392 | N/A | N/A | 31.181 | AV |

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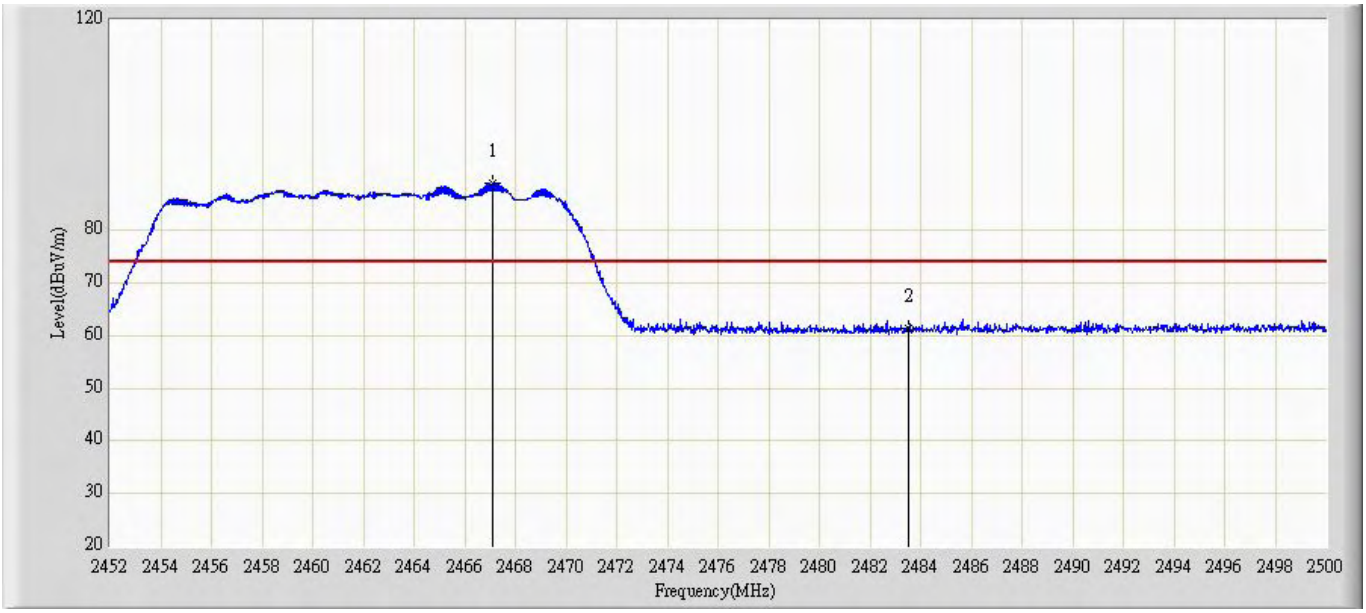
|---|---|
| Profile: 11CS021R | Page No.: 13 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:04 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2467.120 | 88.925 | 57.721 | N/A | N/A | 31.204 | PK |
| 2 | | | 2483.500 | 61.513 | 30.304 | -12.487 | 74.000 | 31.209 | PK |

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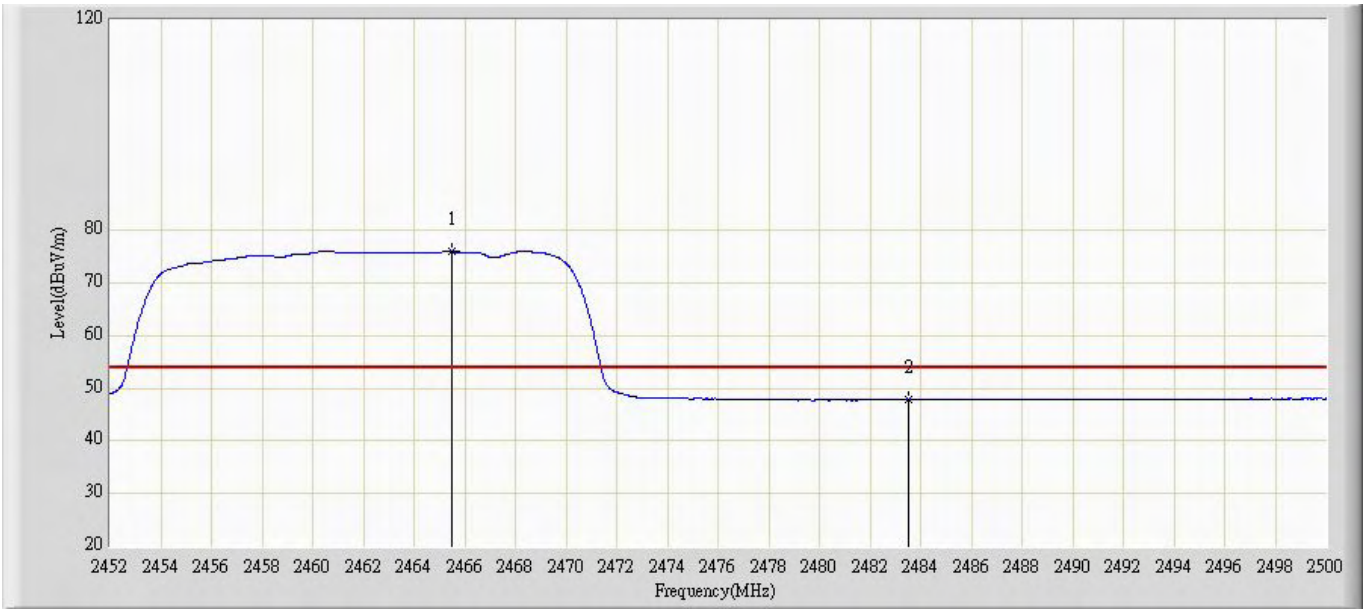
|---|---|
| Profile: 11CS021R | Page No.: 14 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2465.488 | 75.967 | 44.763 | N/A | N/A | 31.204 | AV |
| 2 | | | 2483.500 | 47.788 | 16.579 | -6.212 | 54.000 | 31.209 | AV |

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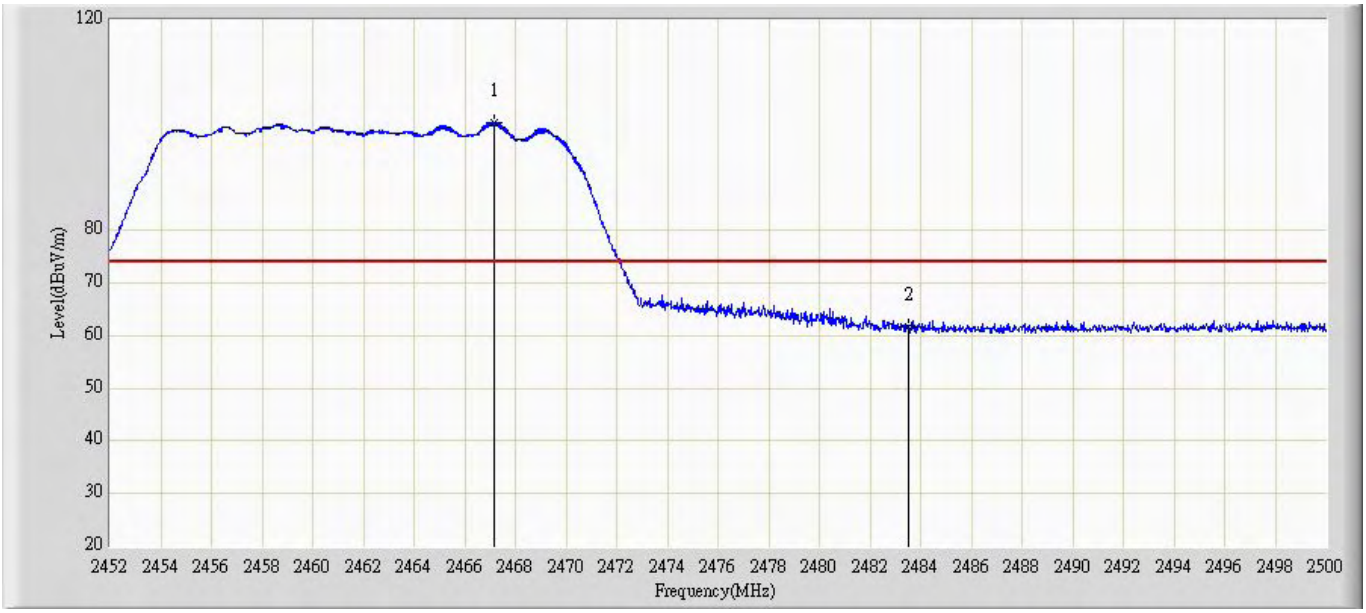
|---|---|
| Profile: 11CS021R | Page No.: 15 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:07 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2467.192 | 100.418 | 69.214 | N/A | N/A | 31.204 | PK |
| 2 | | | 2483.500 | 61.693 | 30.484 | -12.307 | 74.000 | 31.209 | PK |

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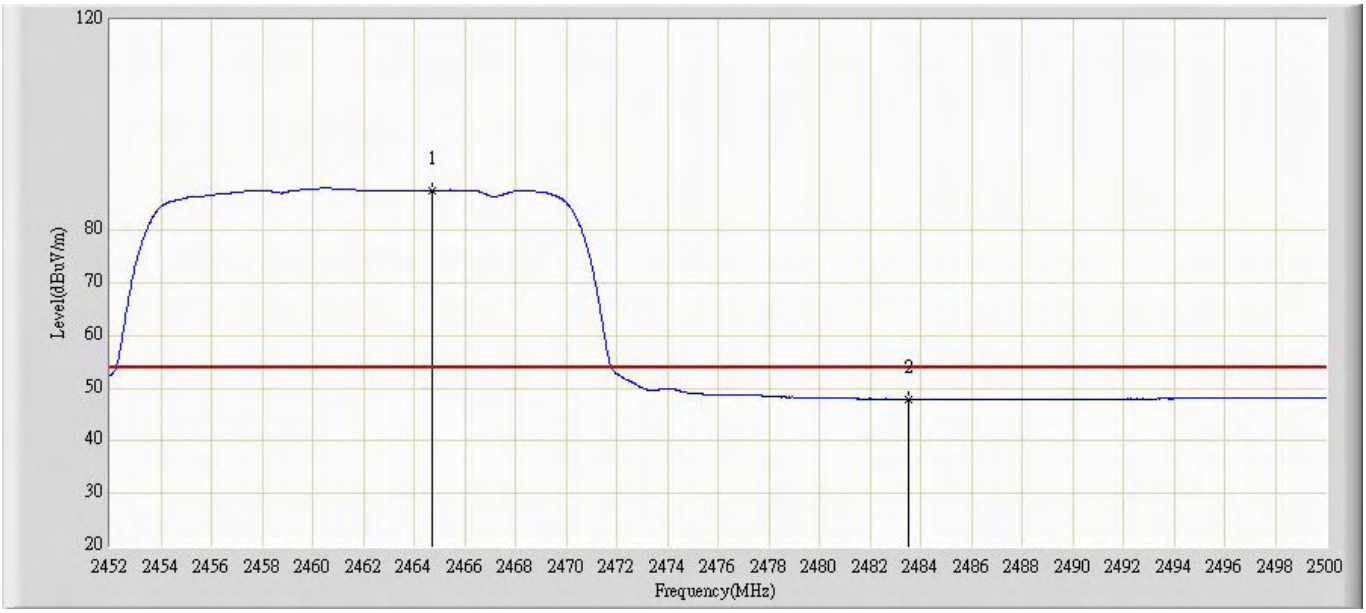
|---|---|
| Profile: 11CS021R | Page No.: 16 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2464.744 | 87.572 | 56.369 | N/A | N/A | 31.203 | AV |
| 2 | | | 2483.500 | 47.952 | 16.743 | -6.048 | 54.000 | 31.209 | AV |

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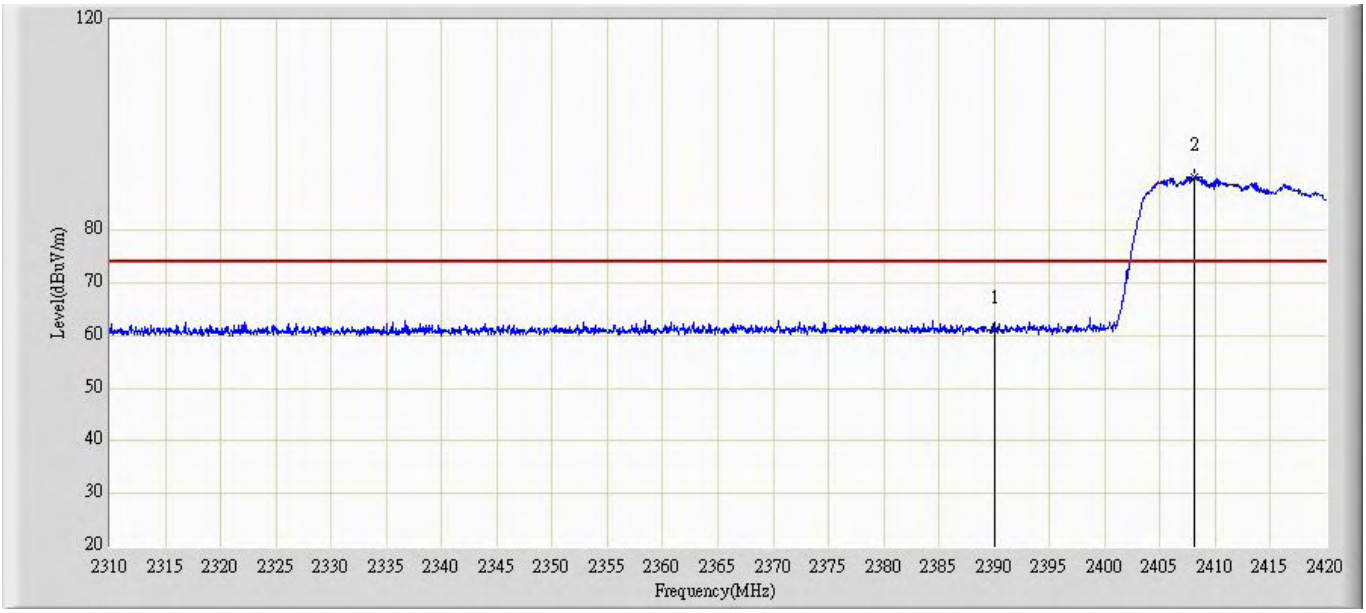
|---|---|
| Profile: 11CS021R | Page No.: 17 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.995 | 29.810 | -13.005 | 74.000 | 31.185 | PK |
| 2 | | * | 2408.120 | 90.148 | 58.967 | N/A | N/A | 31.181 | PK |

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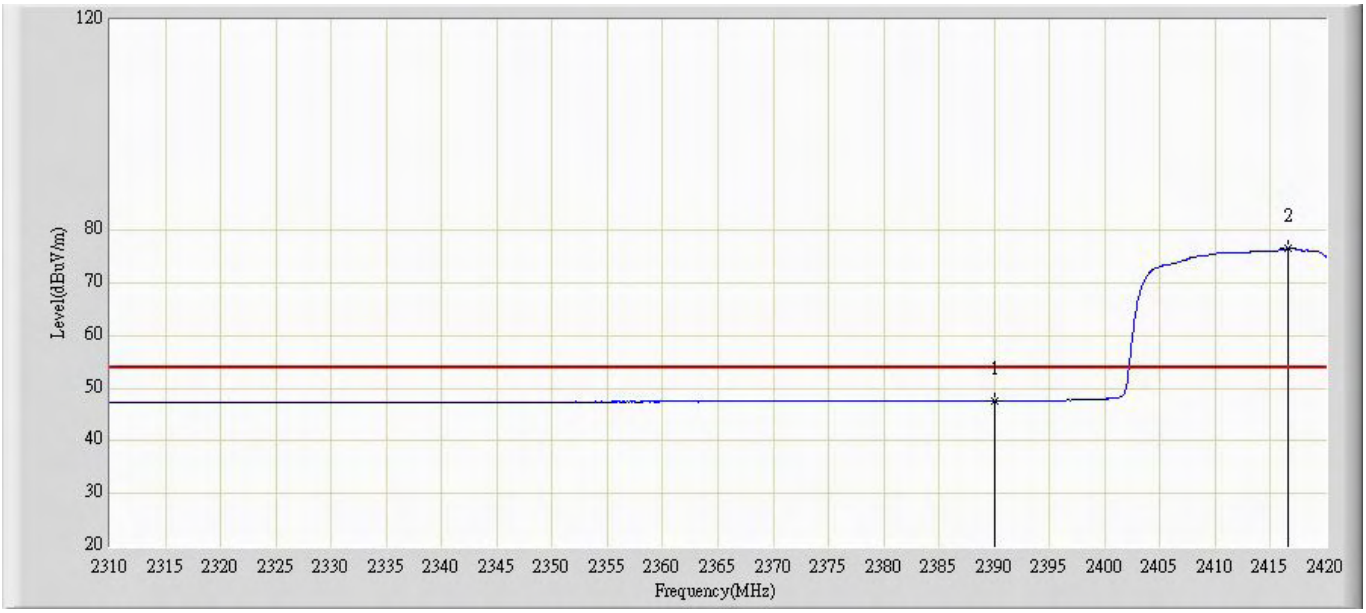
|---|---|
| Profile: 11CS021R | Page No.: 18 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.660 | 16.475 | -6.340 | 54.000 | 31.185 | AV |
| 2 | | * | 2416.535 | 76.507 | 45.325 | N/A | N/A | 31.182 | AV |

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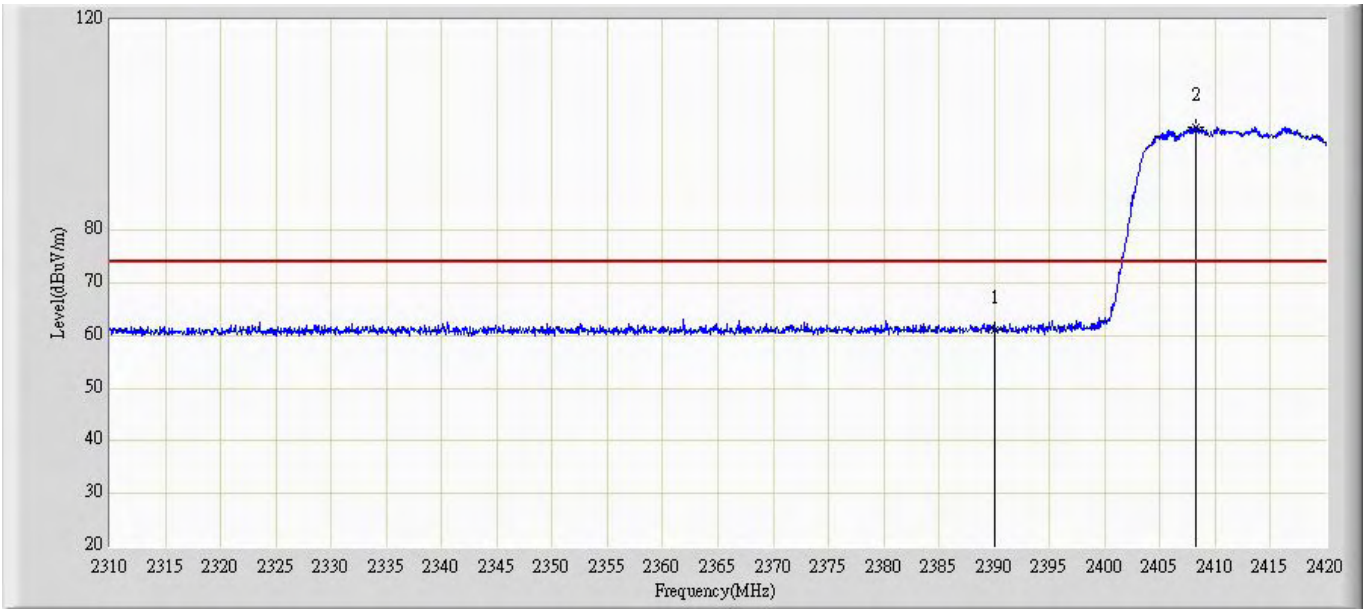
|---|---|
| Profile: 11CS021R | Page No.: 19 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:16 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.016 | 29.831 | -12.984 | 74.000 | 31.185 | PK |
| 2 | | * | 2408.230 | 99.680 | 68.500 | N/A | N/A | 31.181 | PK |

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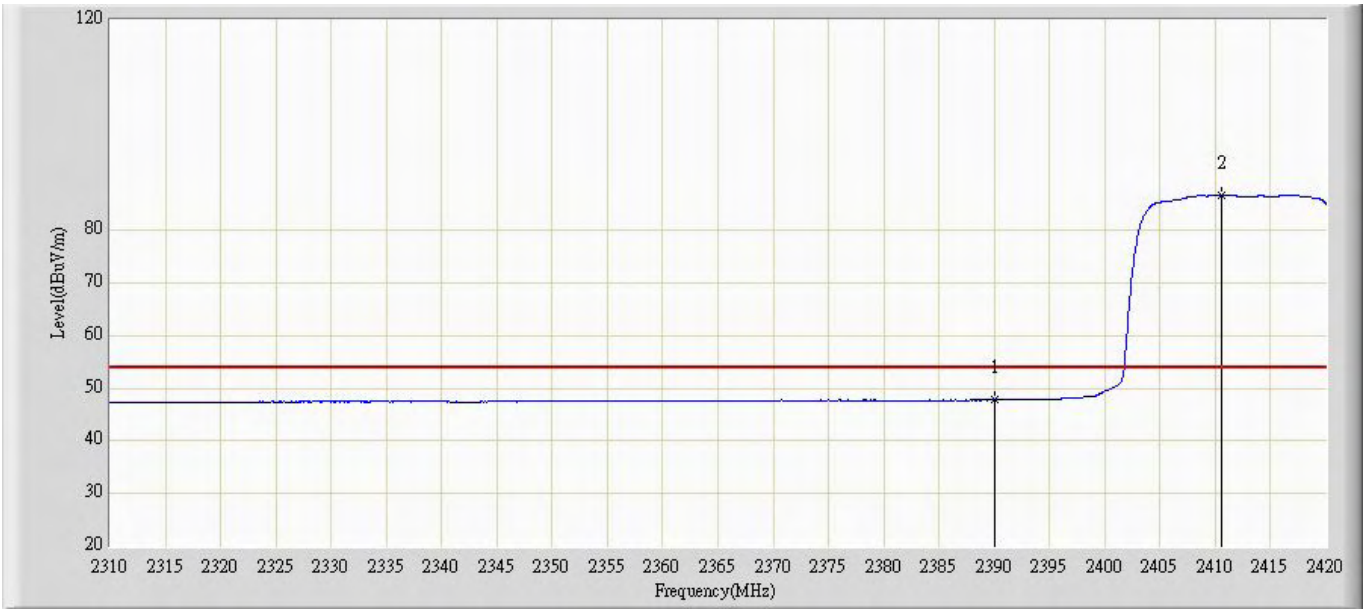
|---|---|
| Profile: 11CS021R | Page No.: 20 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:18 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.778 | 16.593 | -6.222 | 54.000 | 31.185 | AV |
| 2 | | * | 2410.540 | 86.781 | 55.601 | N/A | N/A | 31.180 | AV |

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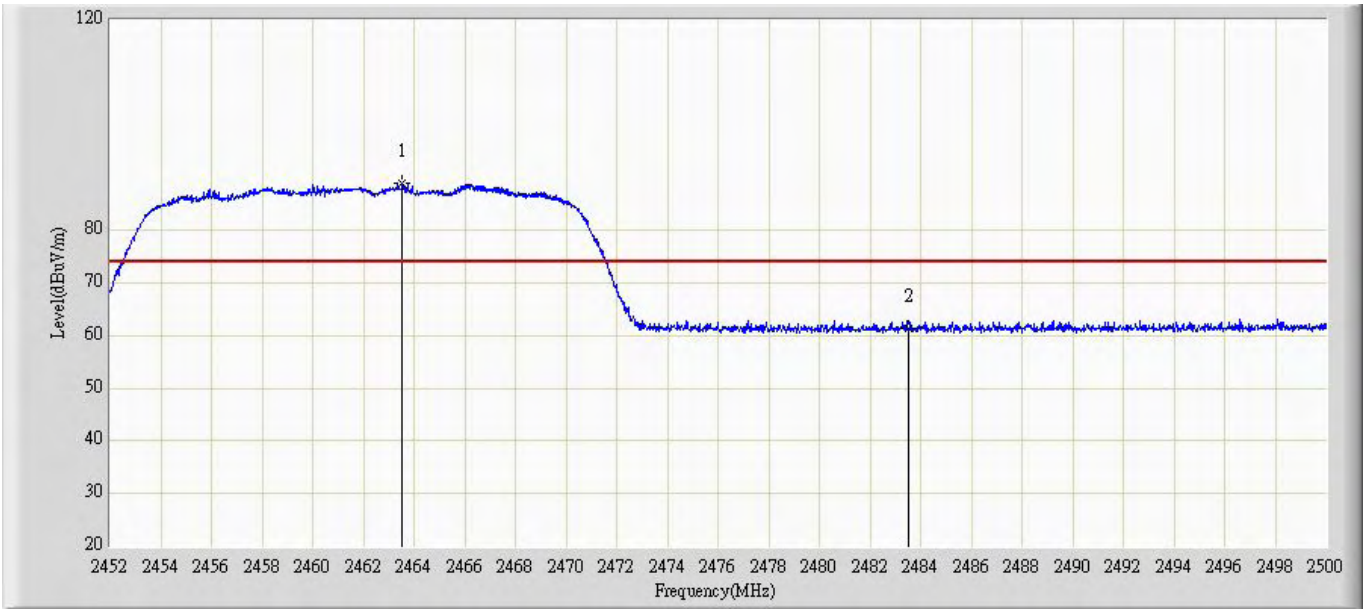
|---|---|
| Profile: 11CS021R | Page No.: 21 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:19 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.544 | 88.841 | 57.638 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 61.270 | 30.061 | -12.730 | 74.000 | 31.209 | PK |

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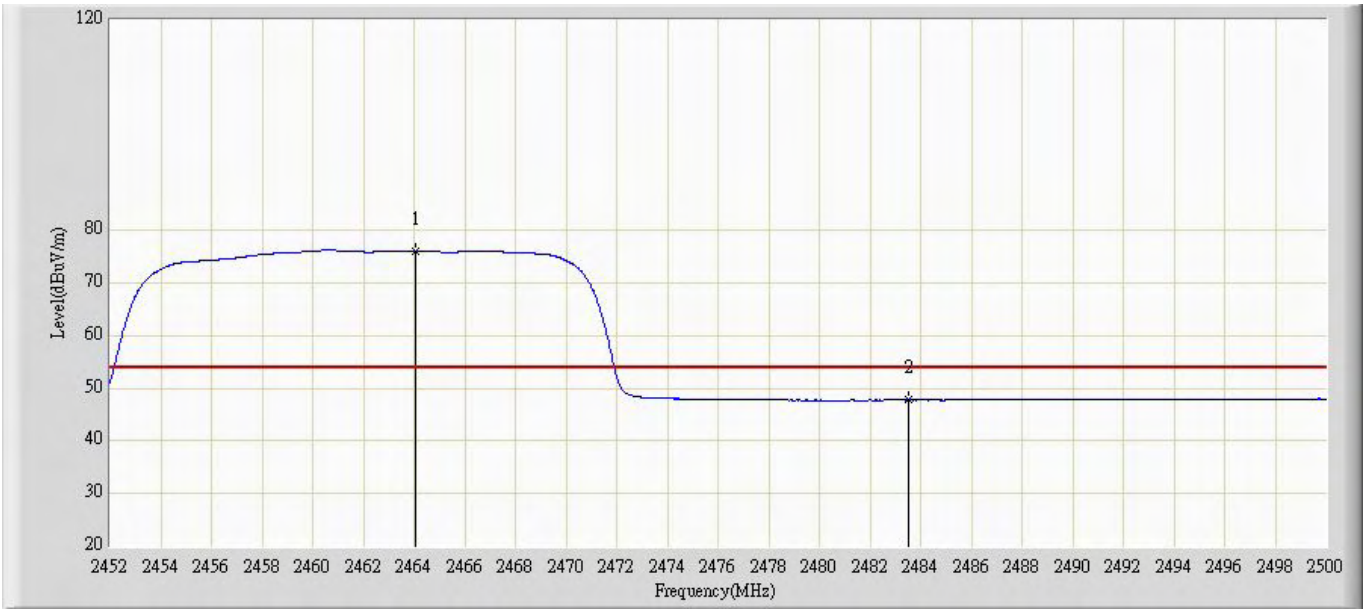
|---|---|
| Profile: 11CS021R | Page No.: 22 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:22 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2464.072 | 76.057 | 44.854 | N/A | N/A | 31.204 | AV |
| 2 | | | 2483.500 | 47.770 | 16.561 | -6.230 | 54.000 | 31.209 | AV |

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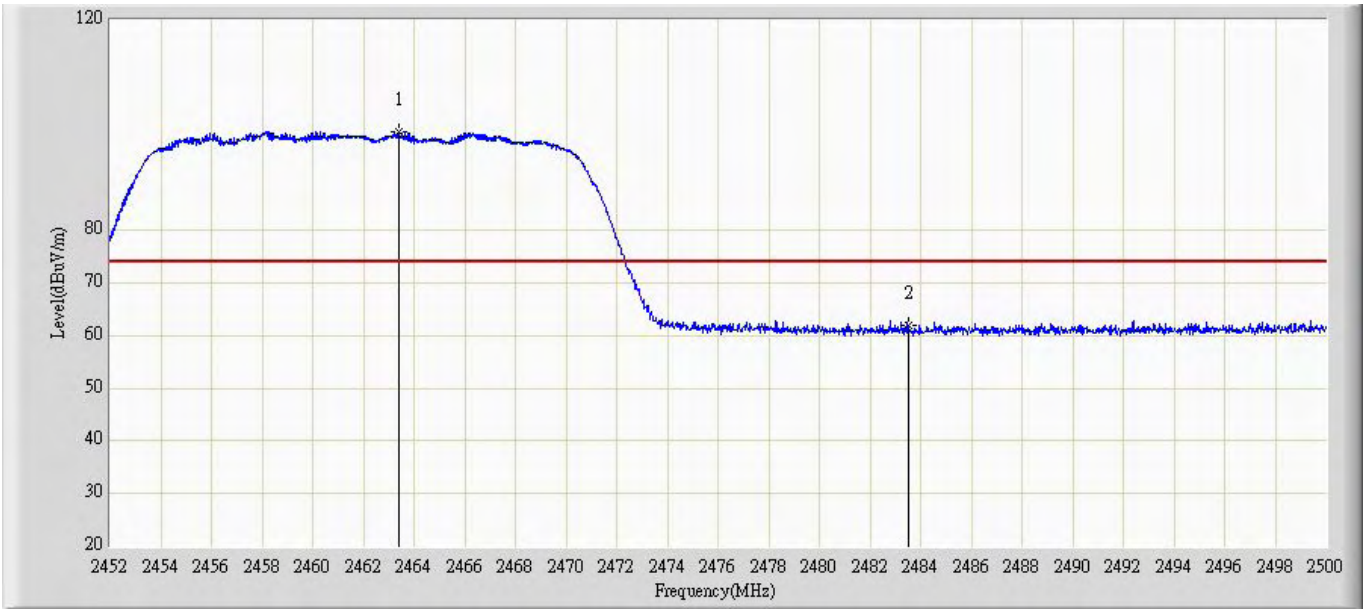
|---|---|
| Profile: 11CS021R | Page No.: 23 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:23 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.424 | 98.753 | 67.550 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 62.046 | 30.837 | -11.954 | 74.000 | 31.209 | PK |

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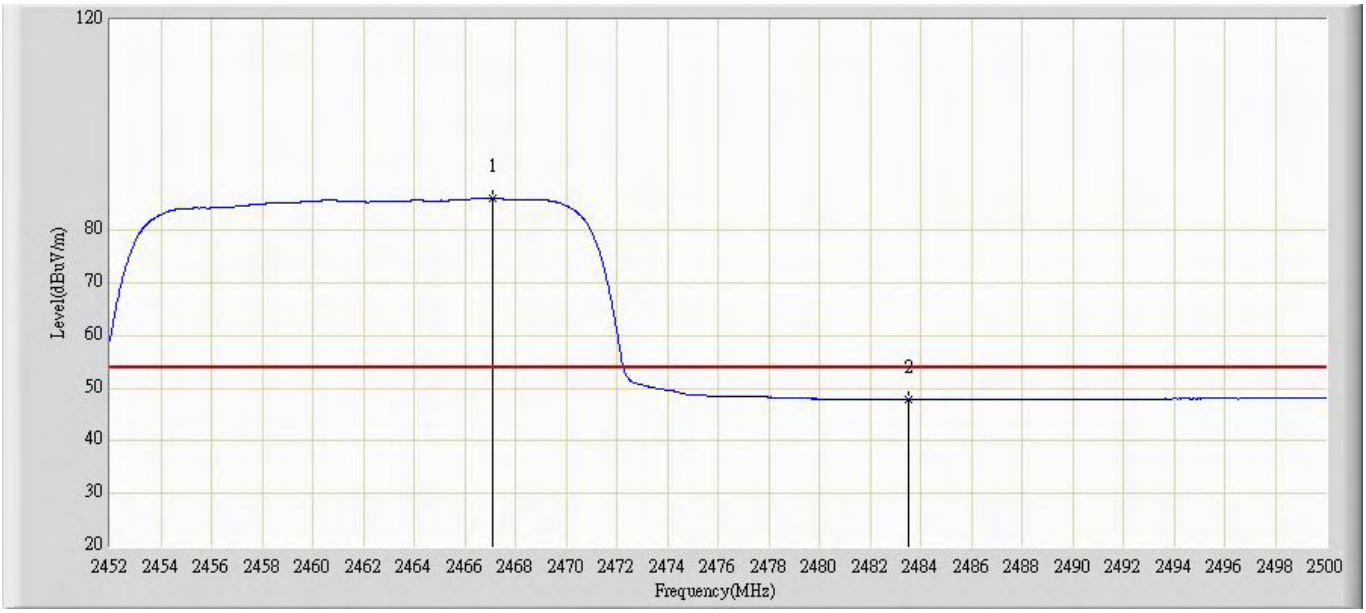
|---|---|
| Profile: 11CS021R | Page No.: 24 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:24 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2467.120 | 86.130 | 54.926 | N/A | N/A | 31.204 | AV |
| 2 | | | 2483.500 | 47.884 | 16.675 | -6.116 | 54.000 | 31.209 | AV |

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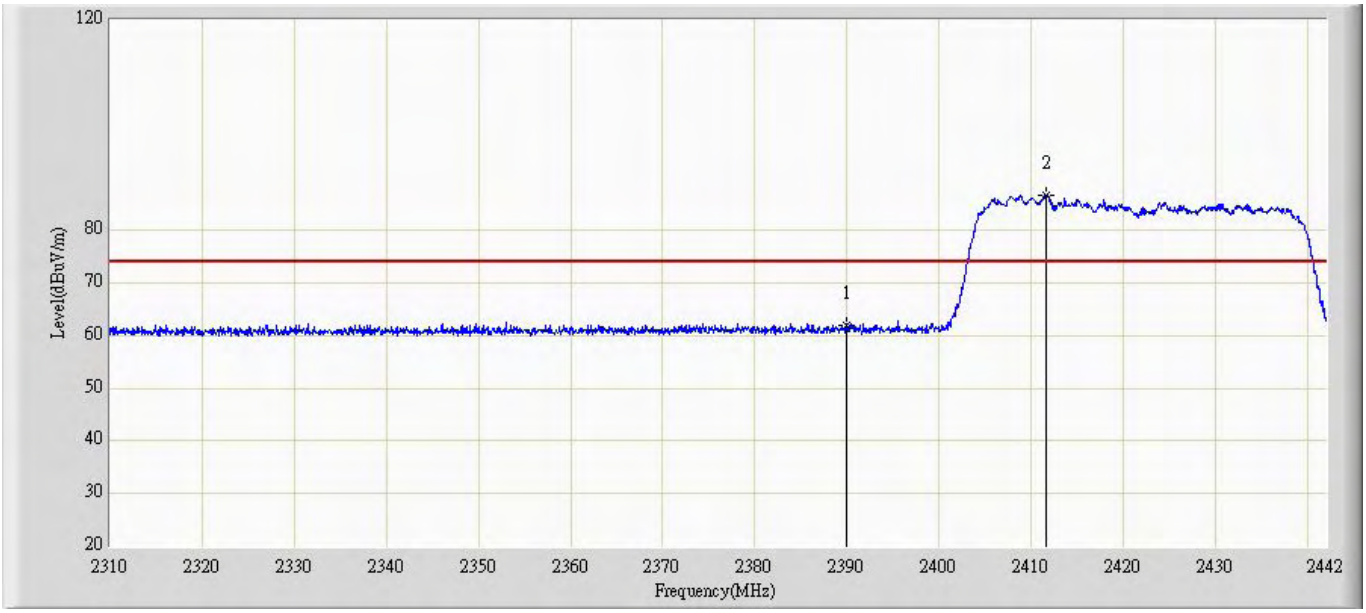
|---|---|
| Profile: 11CS021R | Page No.: 25 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:26 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2412MHz by 802.11n(40MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 62.040 | 30.855 | -11.960 | 74.000 | 31.185 | PK |
| 2 | | * | 2411.574 | 86.641 | 55.461 | N/A | N/A | 31.181 | PK |

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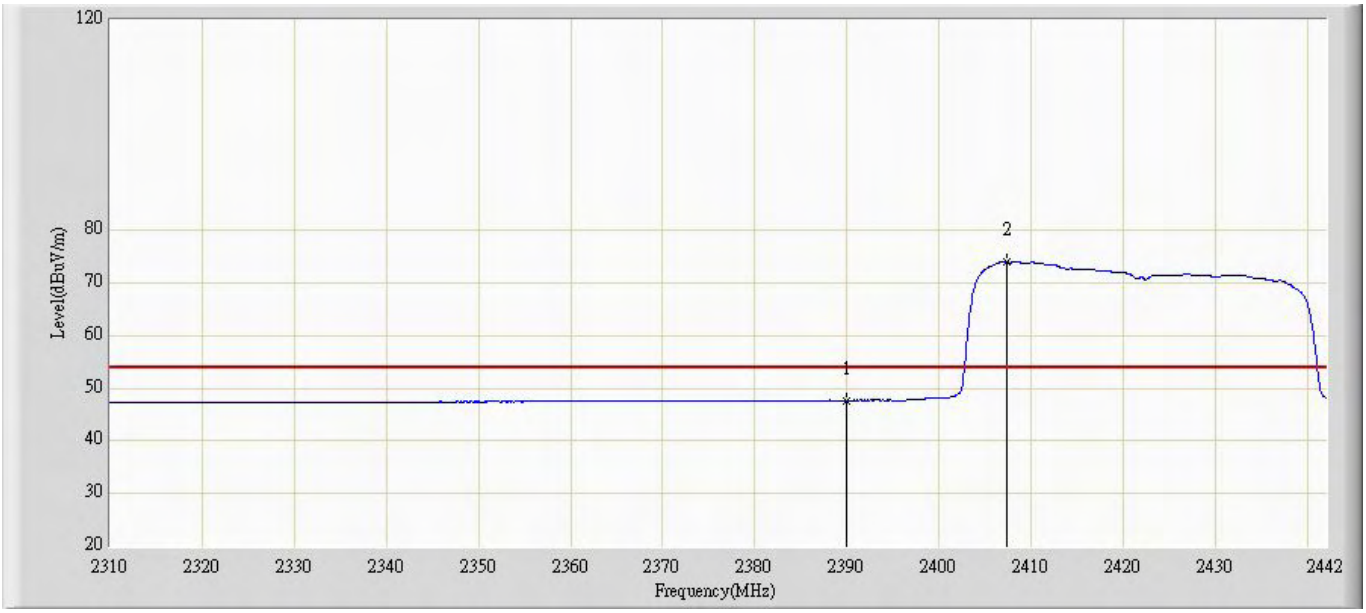
|---|---|
| Profile: 11CS021R | Page No.: 26 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:29 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2412MHz by 802.11n(40MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.681 | 16.496 | -6.319 | 54.000 | 31.185 | AV |
| 2 | | * | 2407.416 | 73.944 | 42.763 | N/A | N/A | 31.181 | AV |

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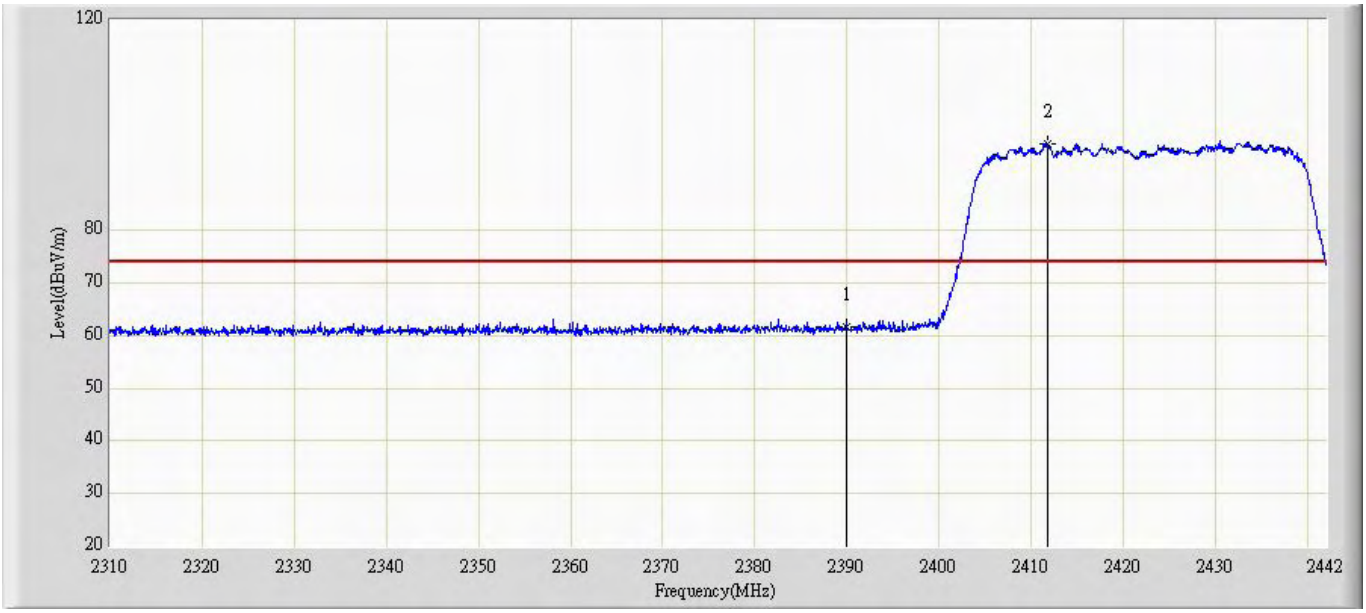
|---|---|
| Profile: 11CS021R | Page No.: 27 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:30 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2412MHz by 802.11n(40MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.565 | 30.380 | -12.435 | 74.000 | 31.185 | PK |
| 2 | | * | 2411.772 | 96.533 | 65.353 | N/A | N/A | 31.181 | PK |

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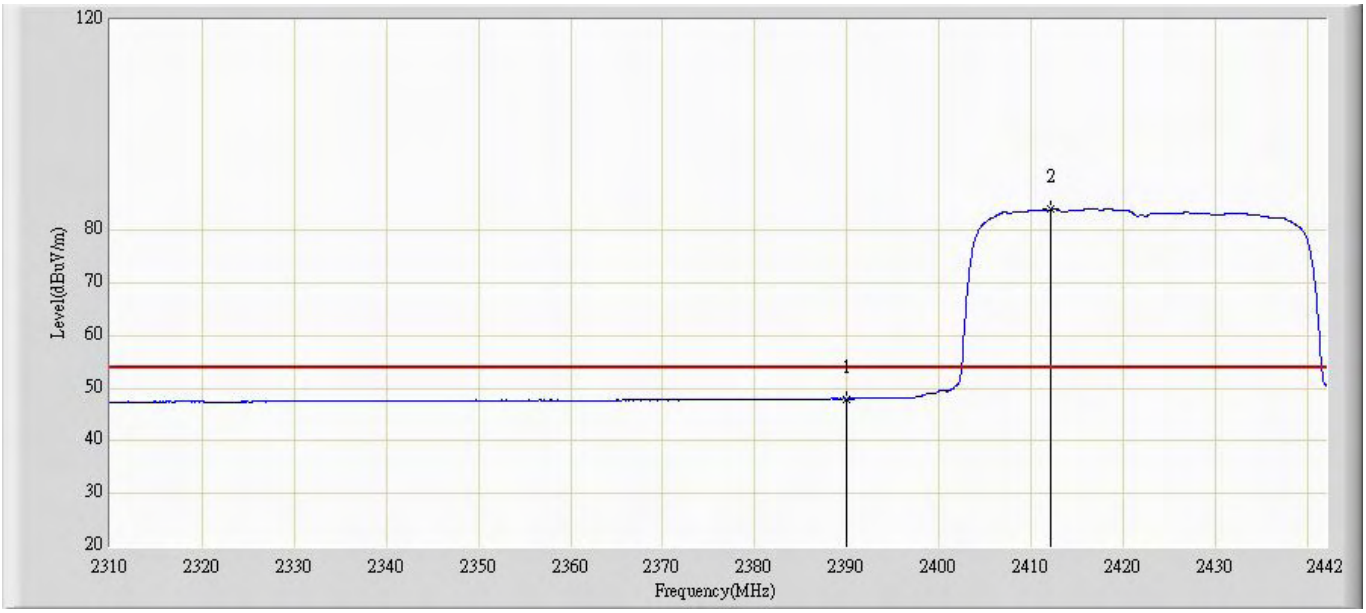
|---|---|
| Profile: 11CS021R | Page No.: 28 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:32 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2412MHz by 802.11n(40MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.978 | 16.793 | -6.022 | 54.000 | 31.185 | AV |
| 2 | | * | 2412.168 | 83.990 | 52.810 | N/A | N/A | 31.180 | AV |

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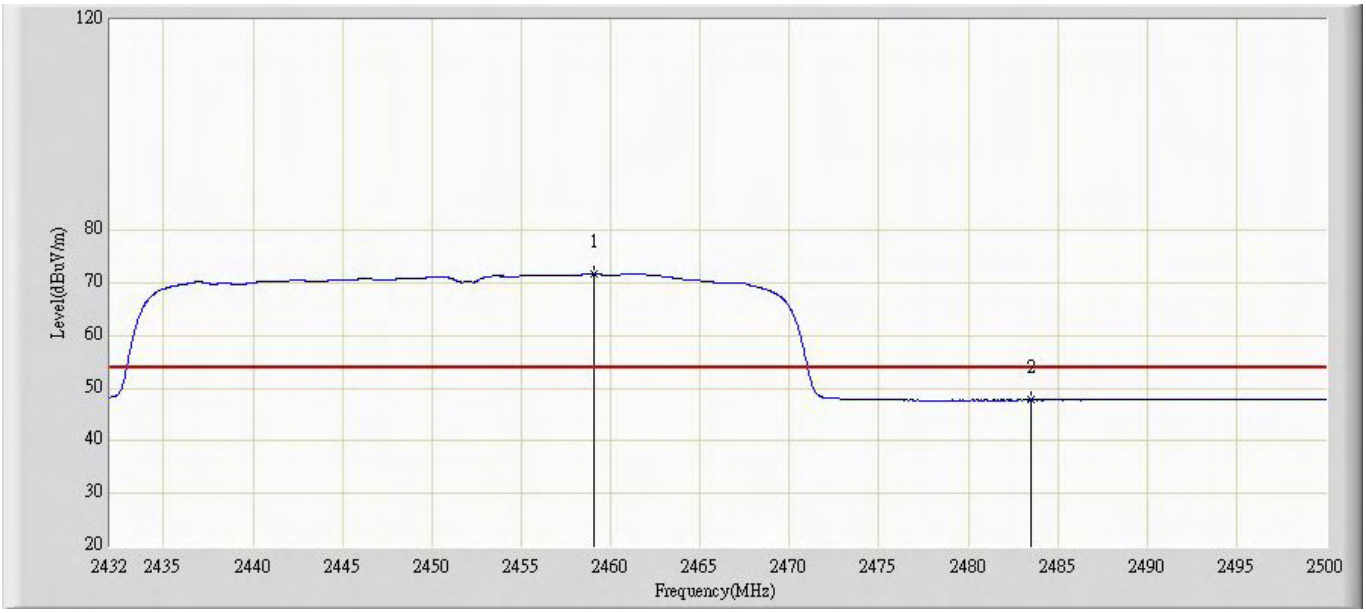
|---|---|
| Profile: 11CS021R | Page No.: 29 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:33 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0) | |

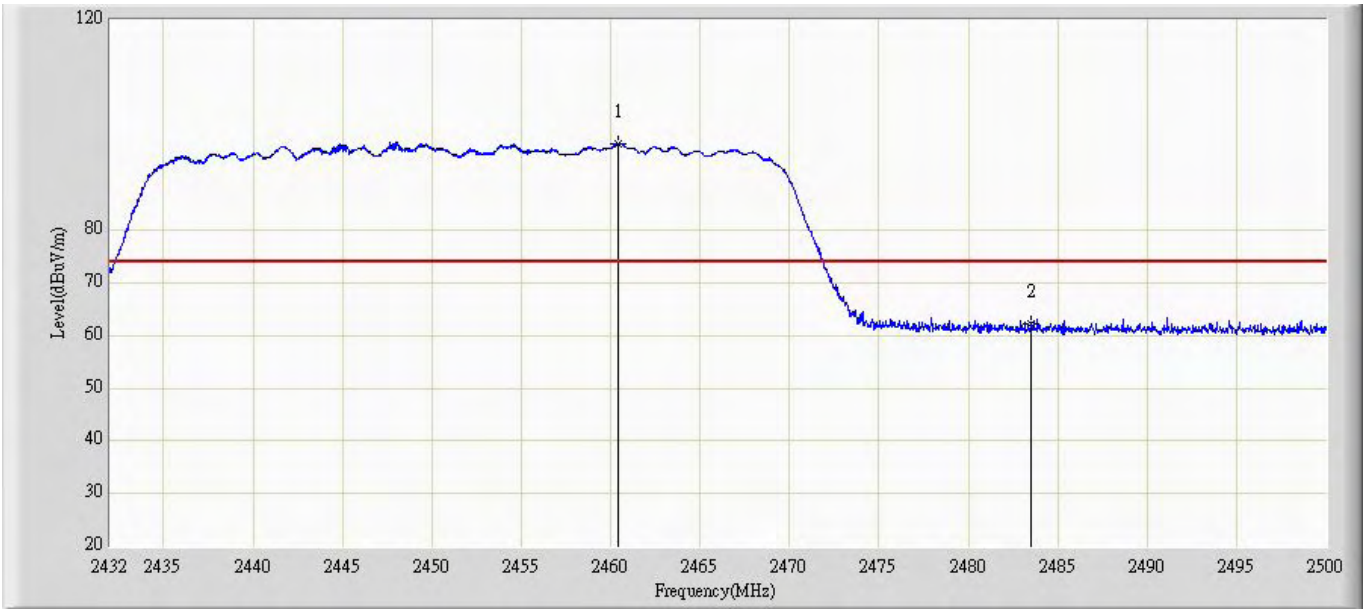

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2444.648 | 85.103 | 53.918 | N/A | N/A | 31.185 | PK |
| 2 | | | 2483.500 | 61.073 | 29.864 | -12.927 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 30 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:36 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0) | |



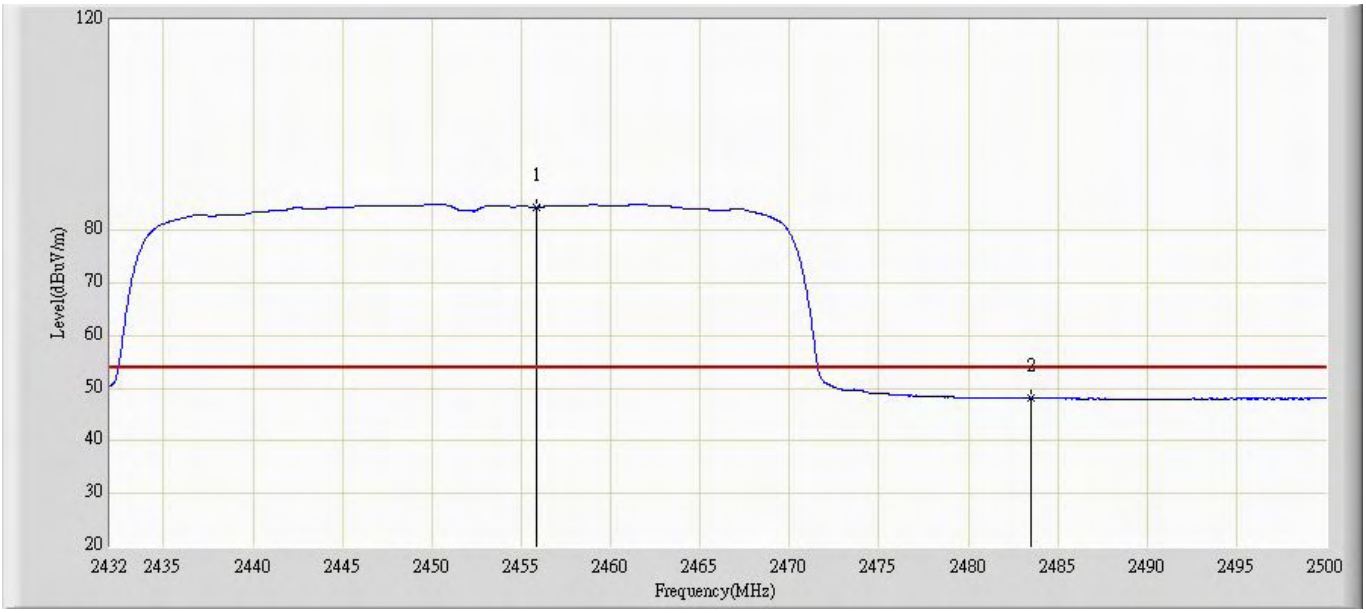

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2459.030 | 71.764 | 40.564 | N/A | N/A | 31.200 | AV |
| 2 | | | 2483.500 | 47.746 | 16.537 | -6.254 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 31 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:36 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2460.424 | 96.491 | 65.290 | N/A | N/A | 31.201 | PK |
| 2 | | | 2483.500 | 62.220 | 31.011 | -11.780 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 32 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:37 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2455.868 | 84.511 | 53.314 | N/A | N/A | 31.197 | AV |
| 2 | | | 2483.500 | 48.067 | 16.858 | -5.933 | 54.000 | 31.209 | AV |

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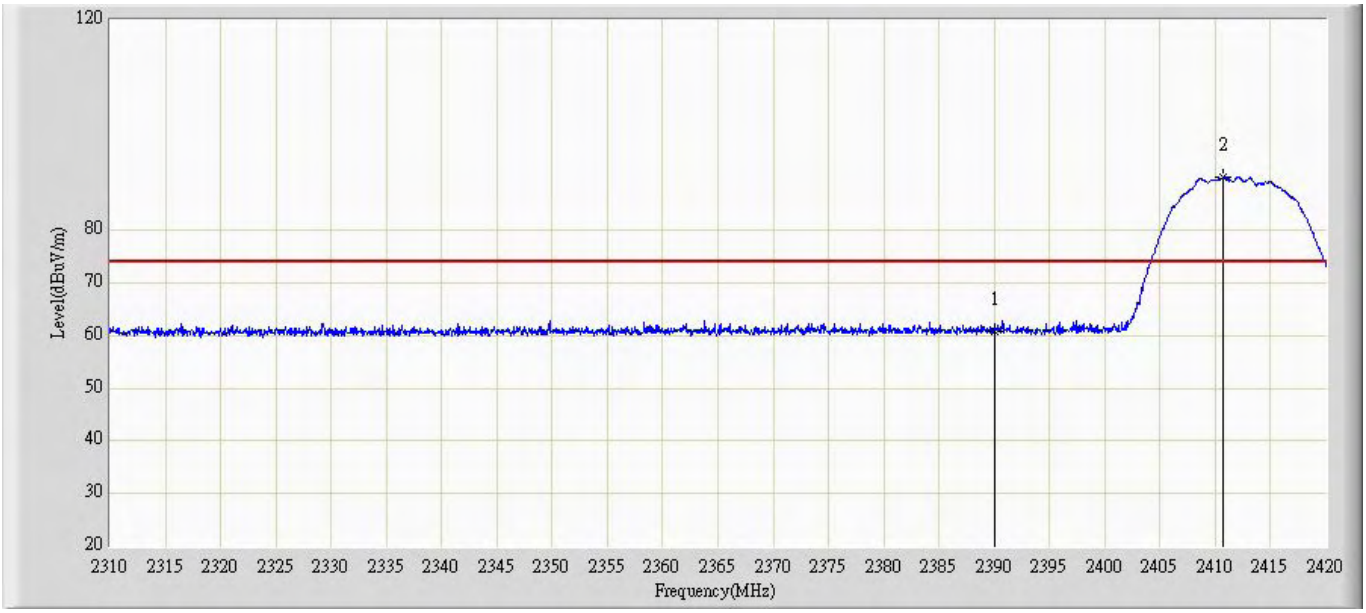
|---|---|
| Profile: 11CS021R | Page No.: 33 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:38 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.791 | 29.606 | -13.209 | 74.000 | 31.185 | PK |
| 2 | | * | 2410.760 | 90.071 | 58.891 | N/A | N/A | 31.180 | PK |

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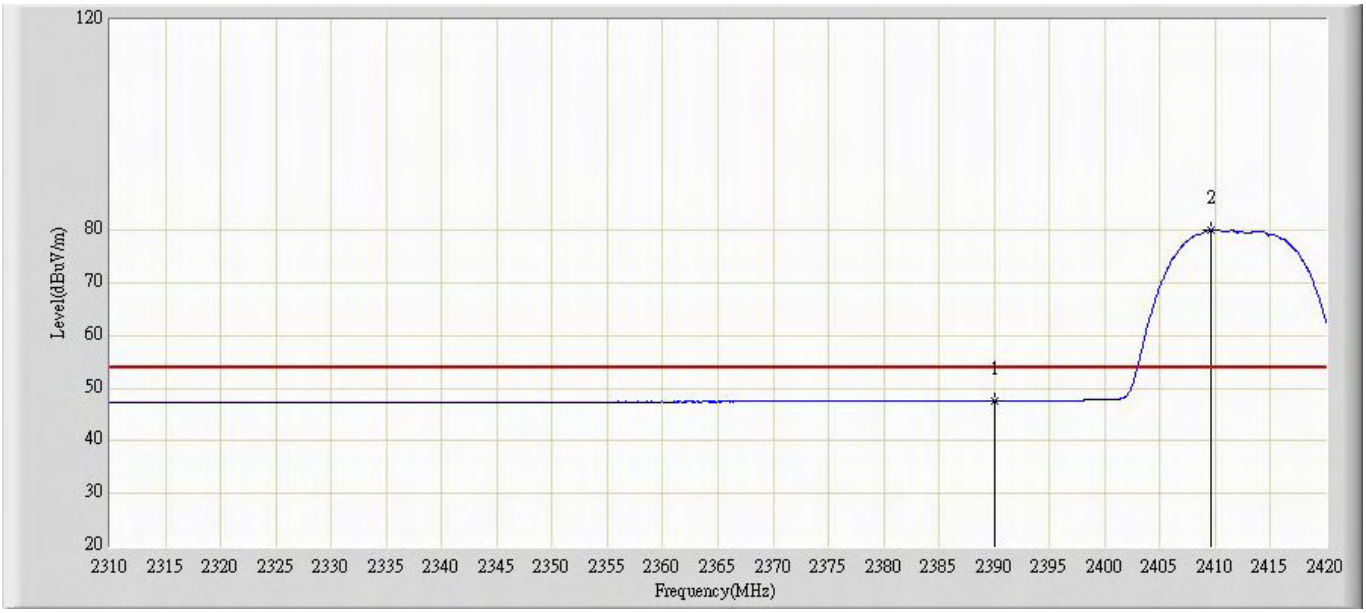
|---|---|
| Profile: 11CS021R | Page No.: 34 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:41 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.611 | 16.426 | -6.389 | 54.000 | 31.185 | AV |
| 2 | | * | 2409.660 | 80.101 | 48.921 | N/A | N/A | 31.180 | AV |

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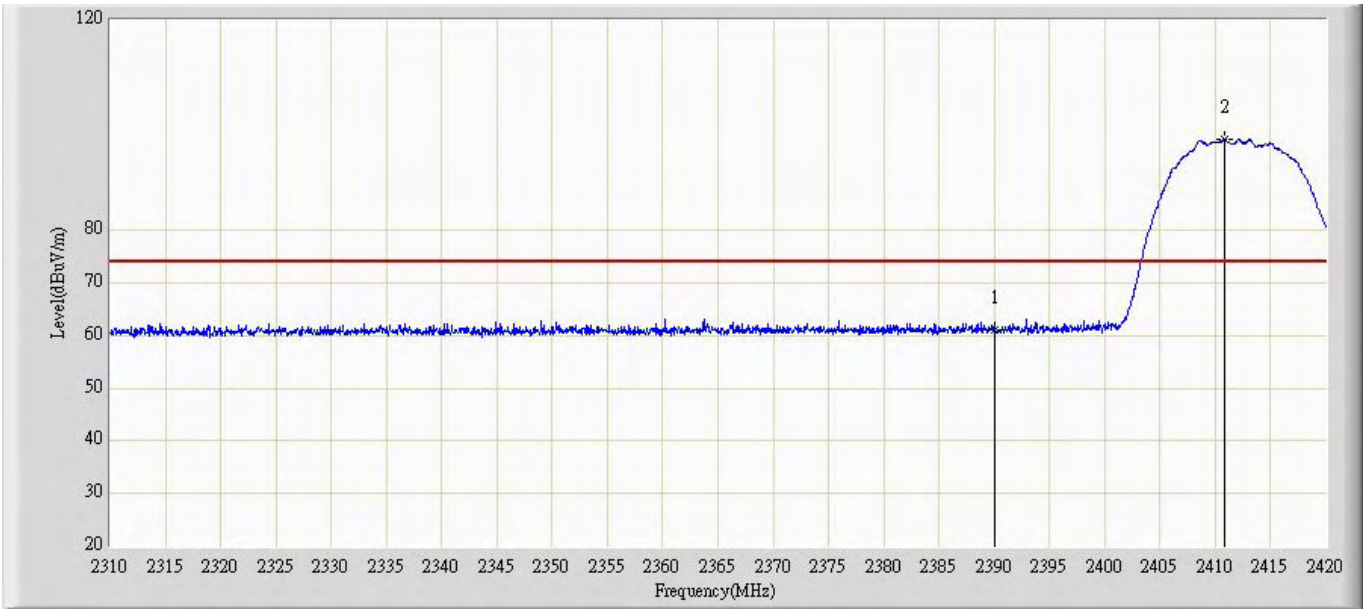
|---|---|
| Profile: 11CS021R | Page No.: 35 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:45 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.235 | 30.050 | -12.765 | 74.000 | 31.185 | PK |
| 2 | | * | 2410.870 | 97.321 | 66.141 | N/A | N/A | 31.180 | PK |

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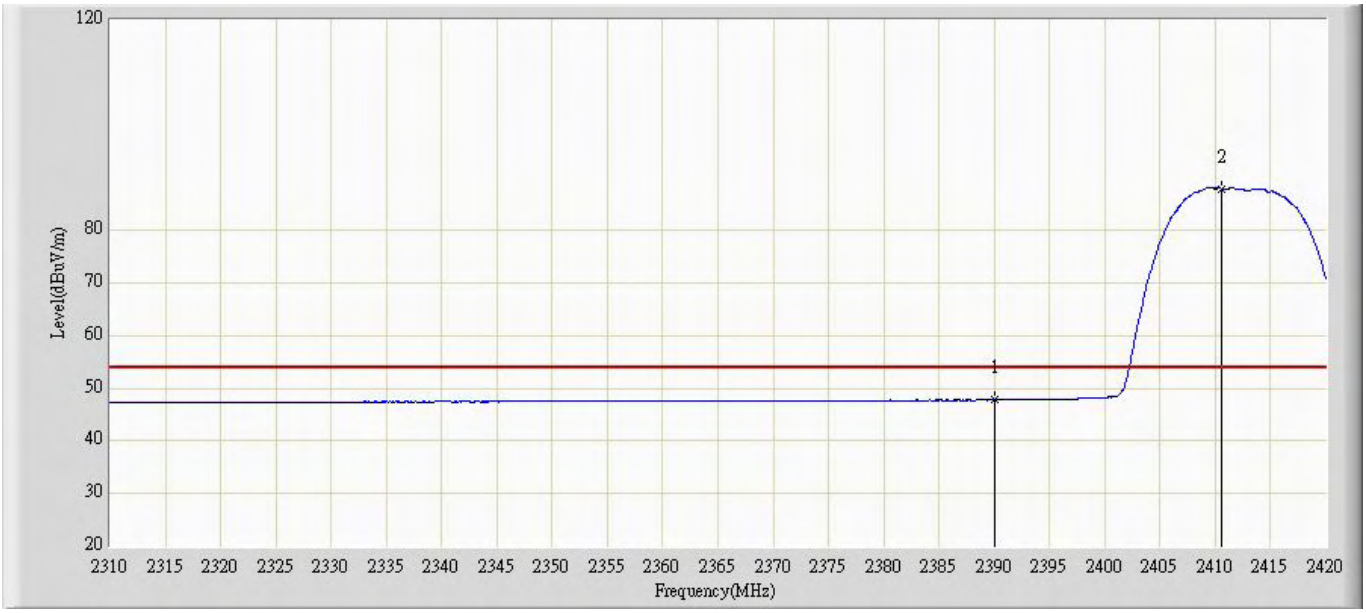
|---|---|
| Profile: 11CS021R | Page No.: 36 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:47 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2412MHz by 802.11b (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.771 | 16.586 | -6.229 | 54.000 | 31.185 | AV |
| 2 | | * | 2410.540 | 87.957 | 56.777 | N/A | N/A | 31.180 | AV |

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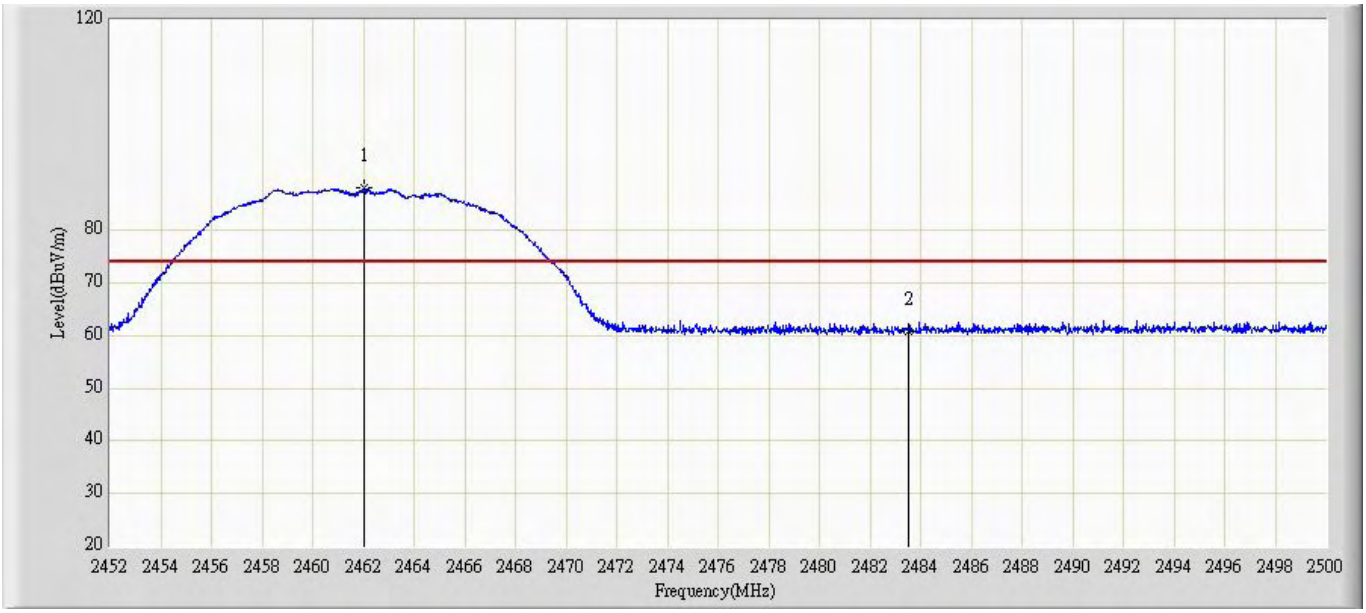
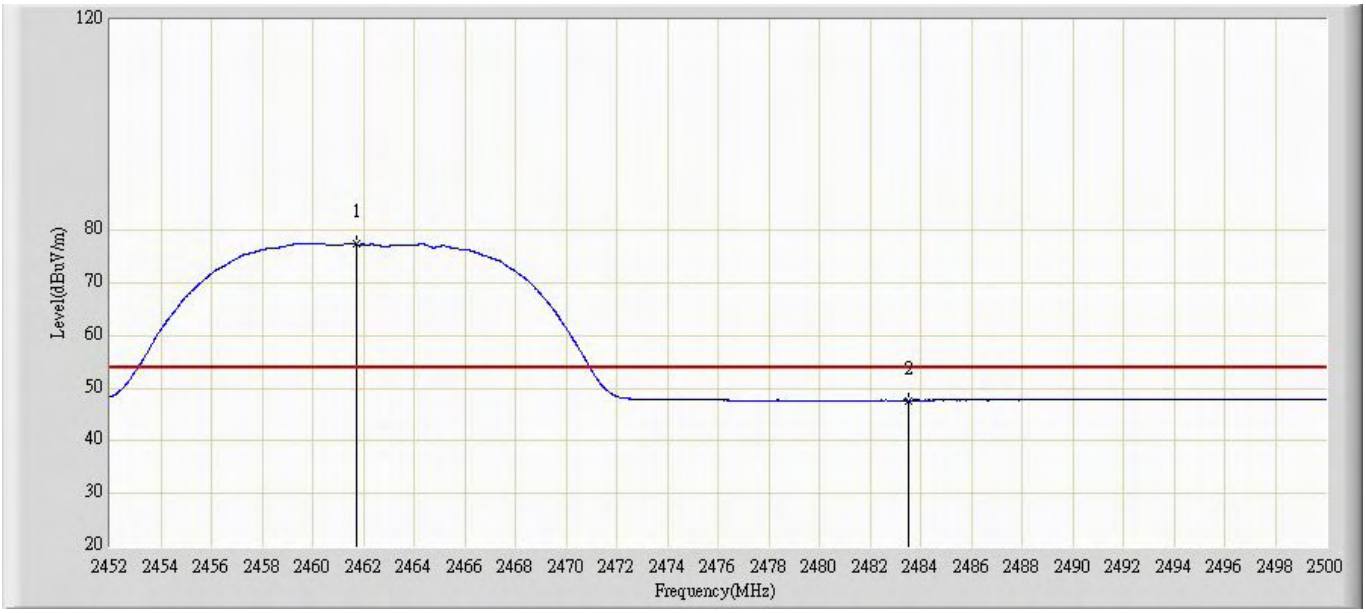
|---|---|
| Profile: 11CS021R | Page No.: 37 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:48 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 1) | |



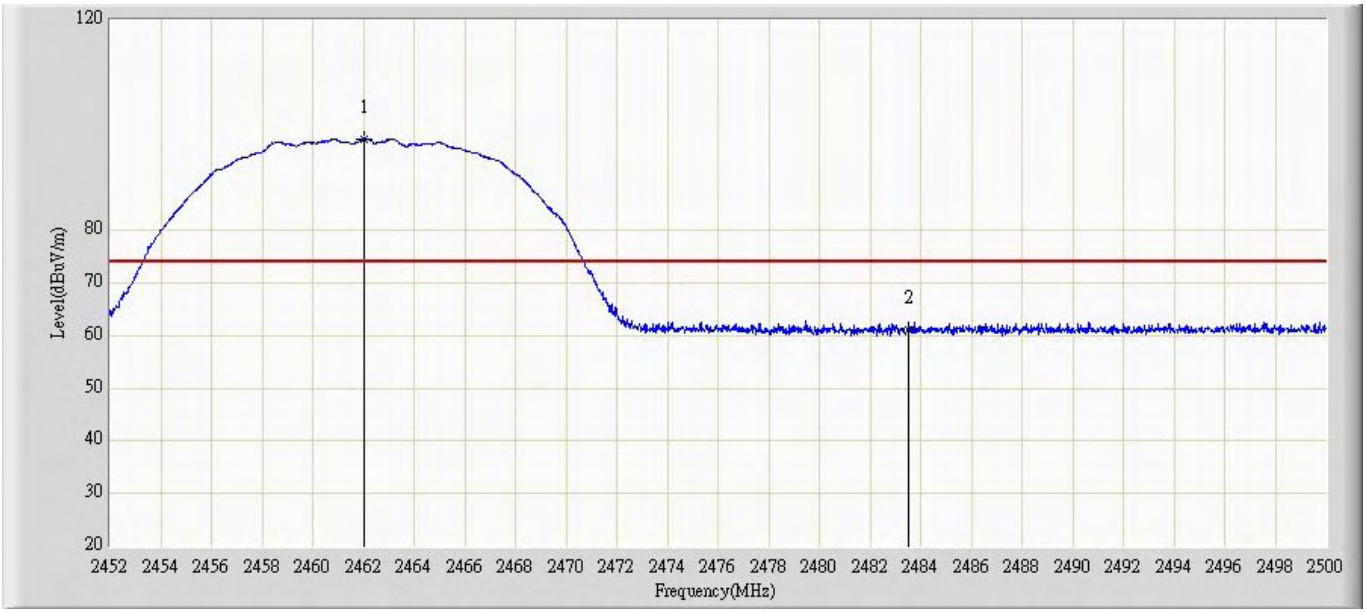

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.008 | 87.961 | 56.758 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 60.897 | 29.688 | -13.103 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 38 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:50 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 1) | |



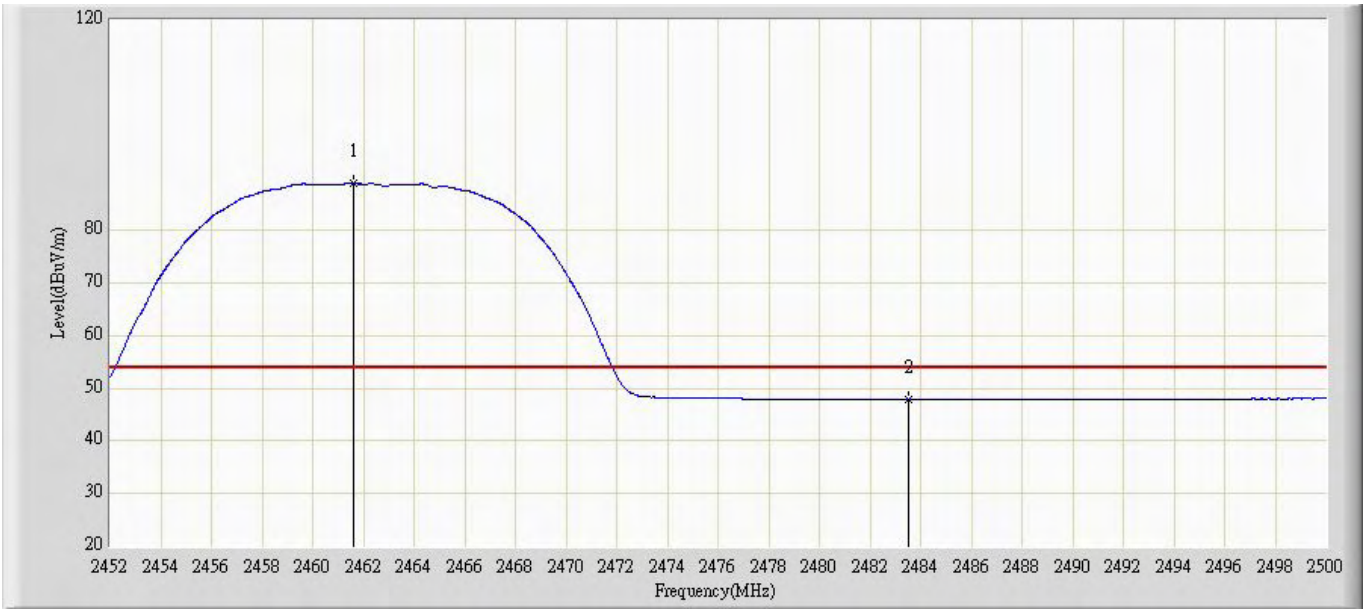

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2461.744 | 77.338 | 46.135 | N/A | N/A | 31.203 | AV |
| 2 | | | 2483.500 | 47.697 | 16.488 | -6.303 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 39 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:51 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 1) | |



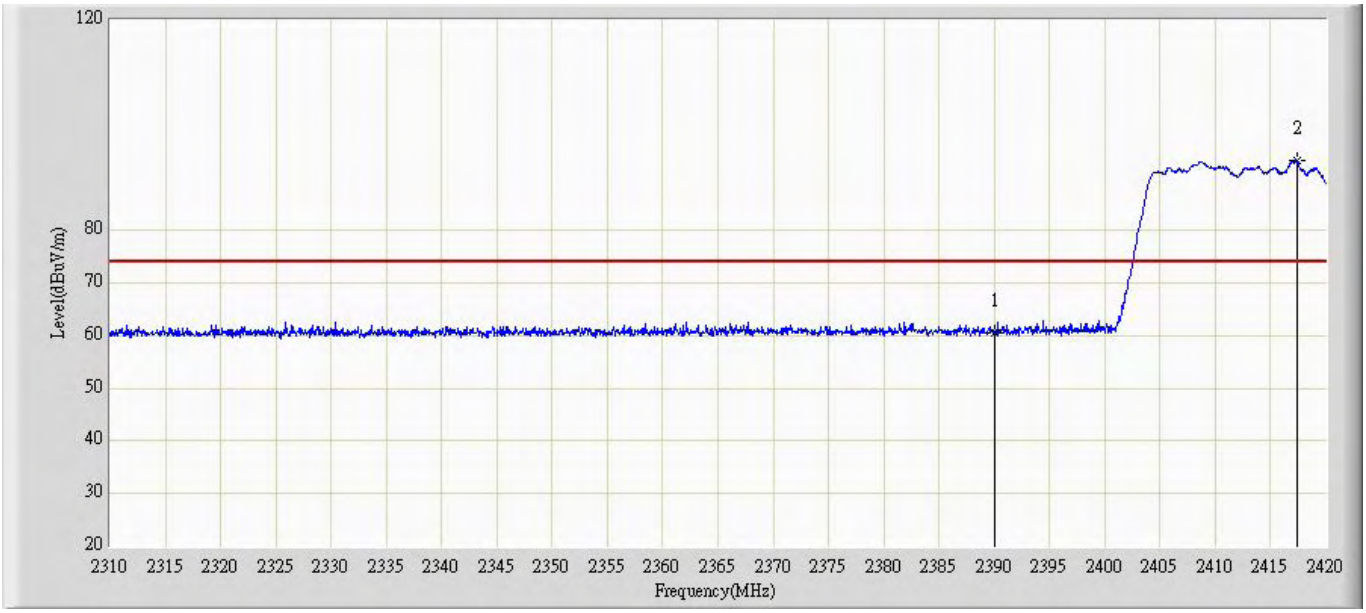

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.056 | 97.389 | 66.186 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 61.097 | 29.888 | -12.903 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 40 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:52 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode1: Transmit at channel 2462MHz by 802.11b (Chain 1) | |



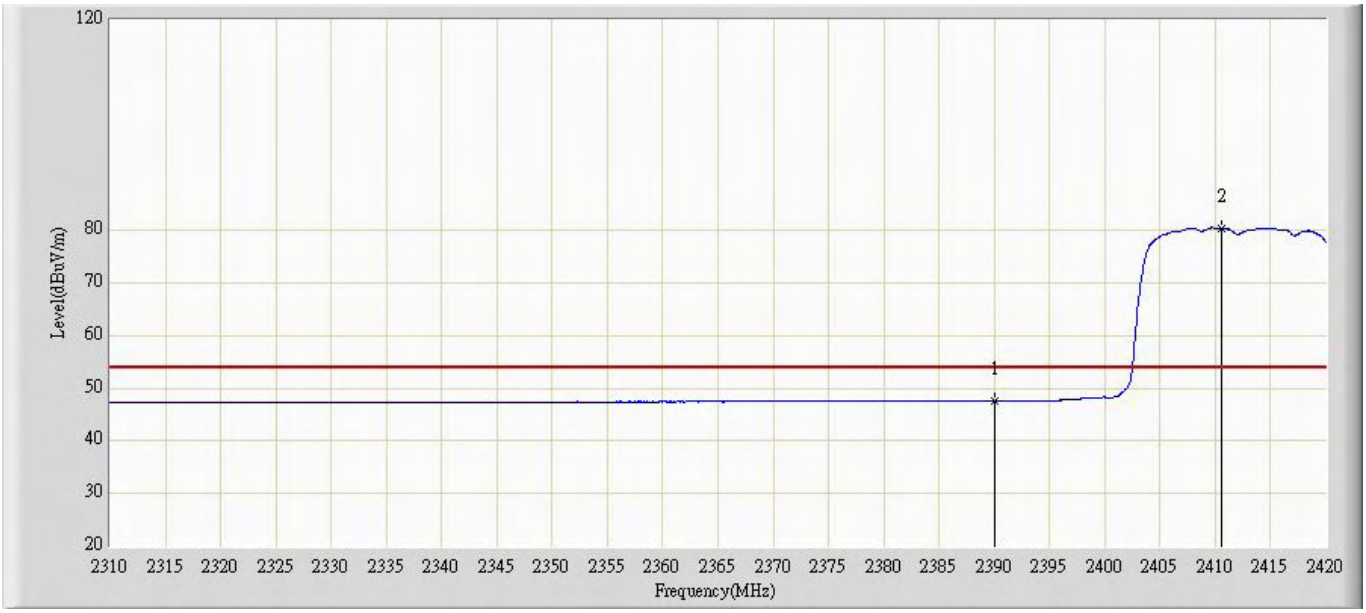

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2461.600 | 88.983 | 57.780 | N/A | N/A | 31.203 | AV |
| 2 | | | 2483.500 | 47.815 | 16.606 | -6.185 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 41 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:53 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 1) | |



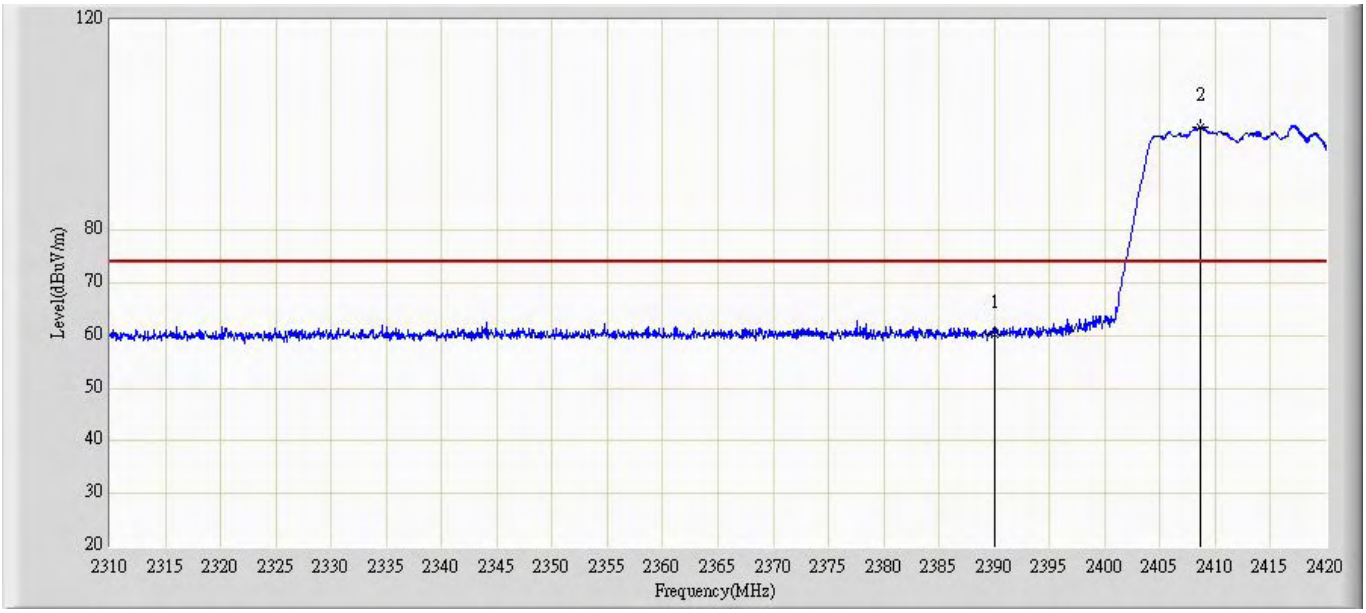

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.478 | 29.293 | -13.522 | 74.000 | 31.185 | PK |
| 2 | | * | 2417.360 | 93.207 | 62.025 | N/A | N/A | 31.182 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 42 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:55 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 1) | |



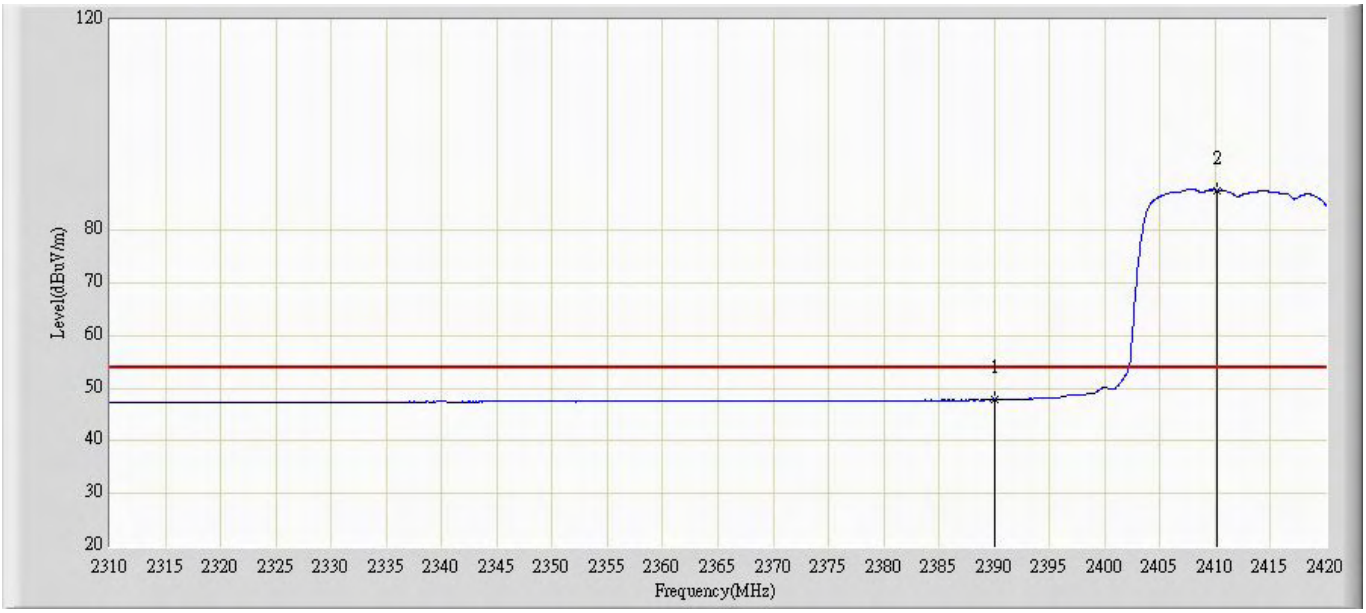

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.651 | 16.466 | -6.349 | 54.000 | 31.185 | AV |
| 2 | | * | 2410.540 | 80.450 | 49.270 | N/A | N/A | 31.180 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 43 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:57 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 1) | |



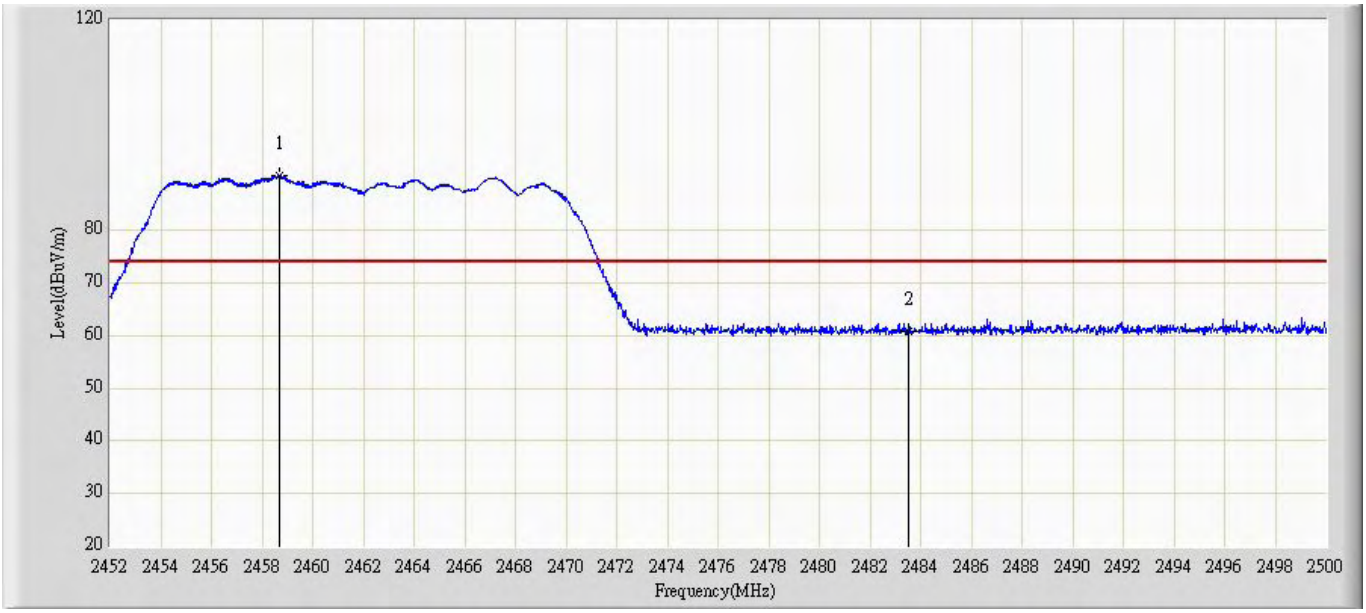

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.165 | 28.980 | -13.835 | 74.000 | 31.185 | PK |
| 2 | | * | 2408.670 | 99.736 | 68.556 | N/A | N/A | 31.180 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 44 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:58 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2412MHz by 802.11g (Chain 1) | |



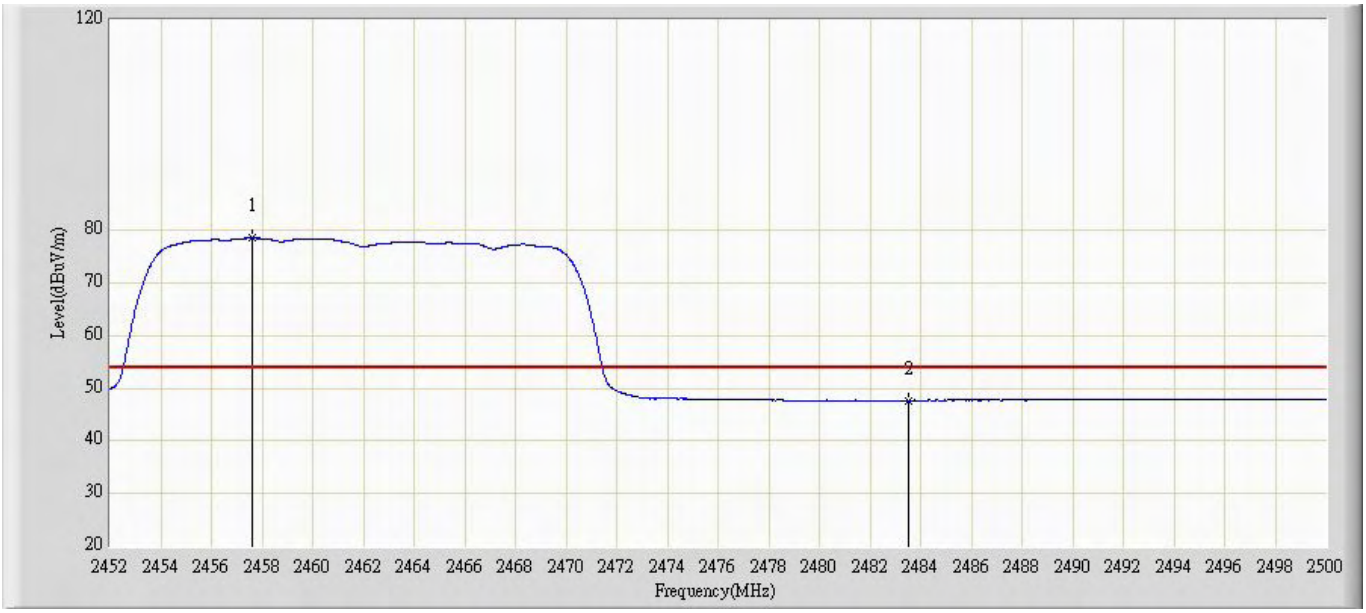

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.806 | 16.621 | -6.194 | 54.000 | 31.185 | AV |
| 2 | | * | 2410.210 | 87.568 | 56.388 | N/A | N/A | 31.180 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 45 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 15:59 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 1) | |



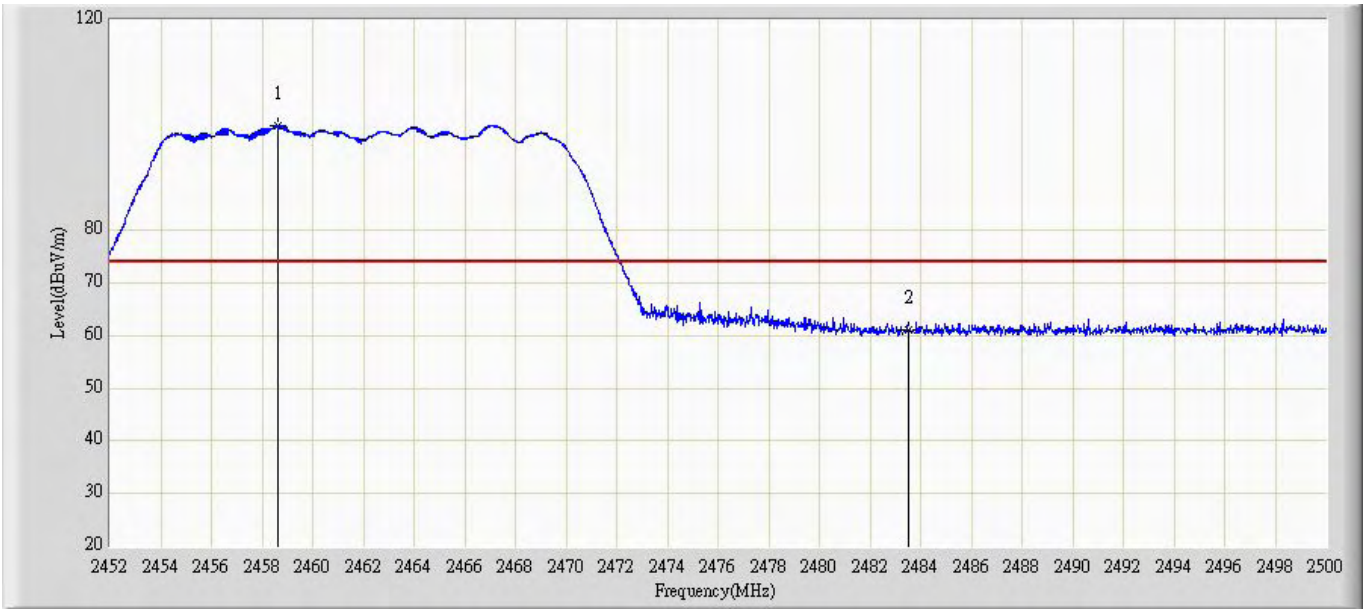

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2458.696 | 90.354 | 59.154 | N/A | N/A | 31.200 | PK |
| 2 | | | 2483.500 | 60.919 | 29.710 | -13.081 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 46 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:01 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 1) | |



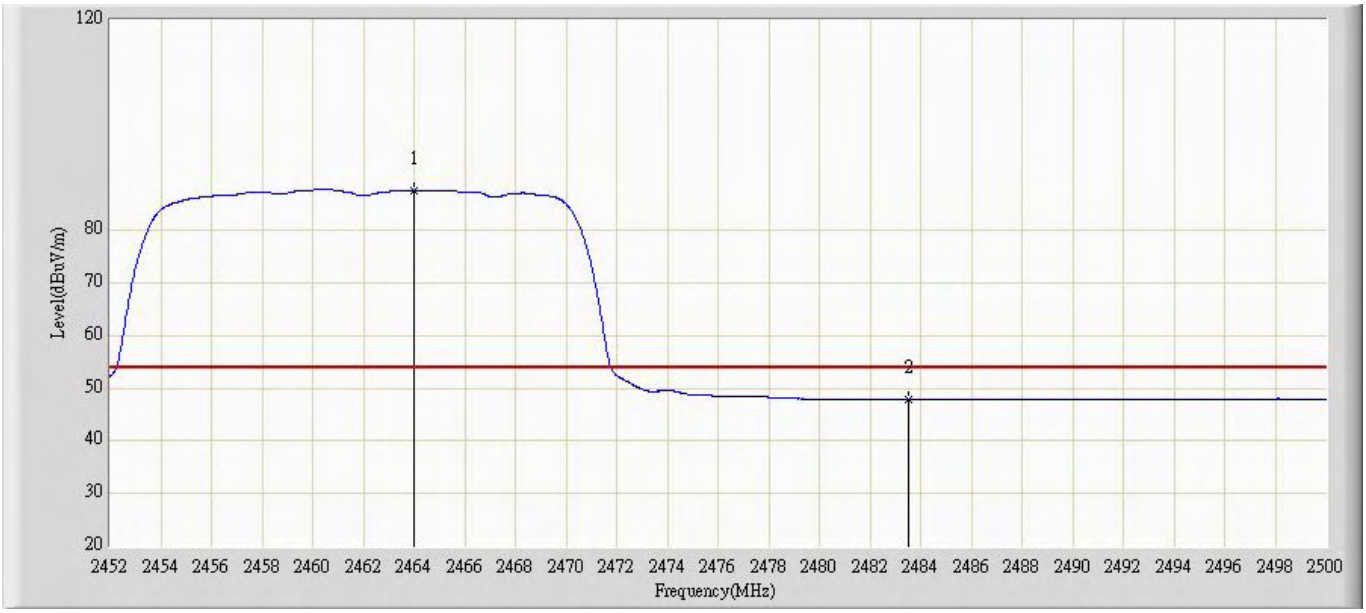

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2457.640 | 78.548 | 47.350 | N/A | N/A | 31.198 | AV |
| 2 | | | 2483.500 | 47.713 | 16.504 | -6.287 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 47 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:02 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 1) | |



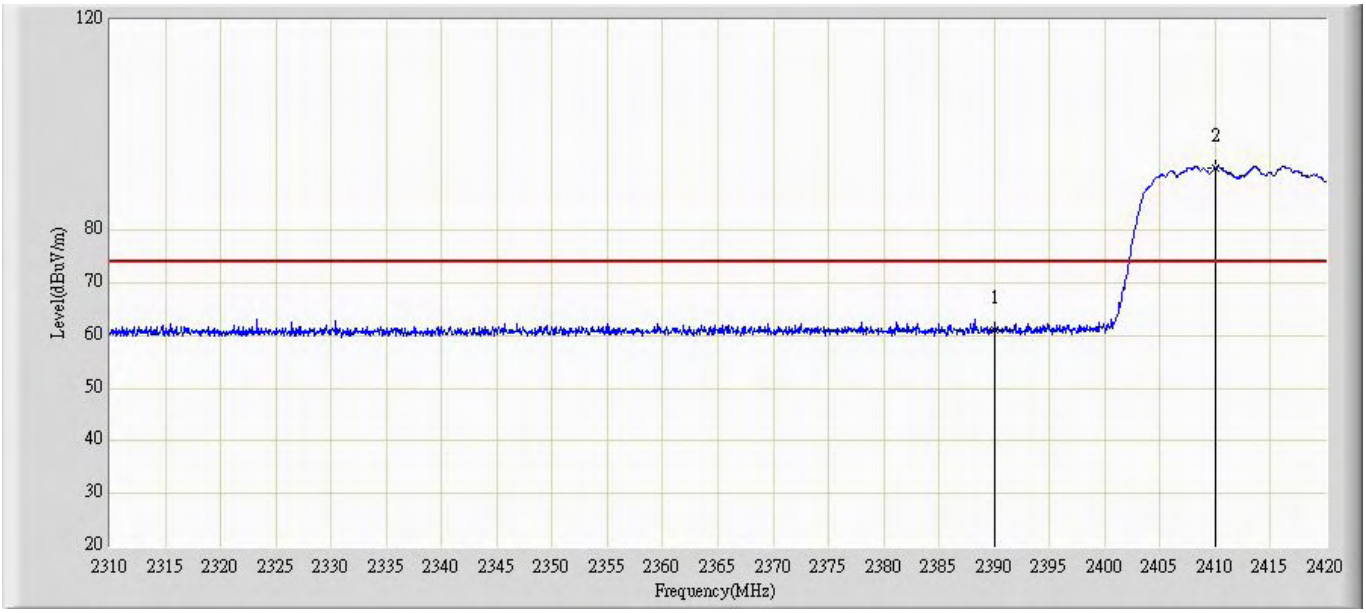

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2458.624 | 99.872 | 68.673 | N/A | N/A | 31.199 | PK |
| 2 | | | 2483.500 | 61.053 | 29.844 | -12.947 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 48 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:03 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode2: Transmit at channel 2462MHz by 802.11g (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2464.000 | 87.547 | 56.344 | N/A | N/A | 31.204 | AV |
| 2 | | | 2483.500 | 47.806 | 16.597 | -6.194 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 49 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:04 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.156 | 29.971 | -12.844 | 74.000 | 31.185 | PK |
| 2 | | * | 2410.045 | 91.963 | 60.783 | N/A | N/A | 31.181 | PK |

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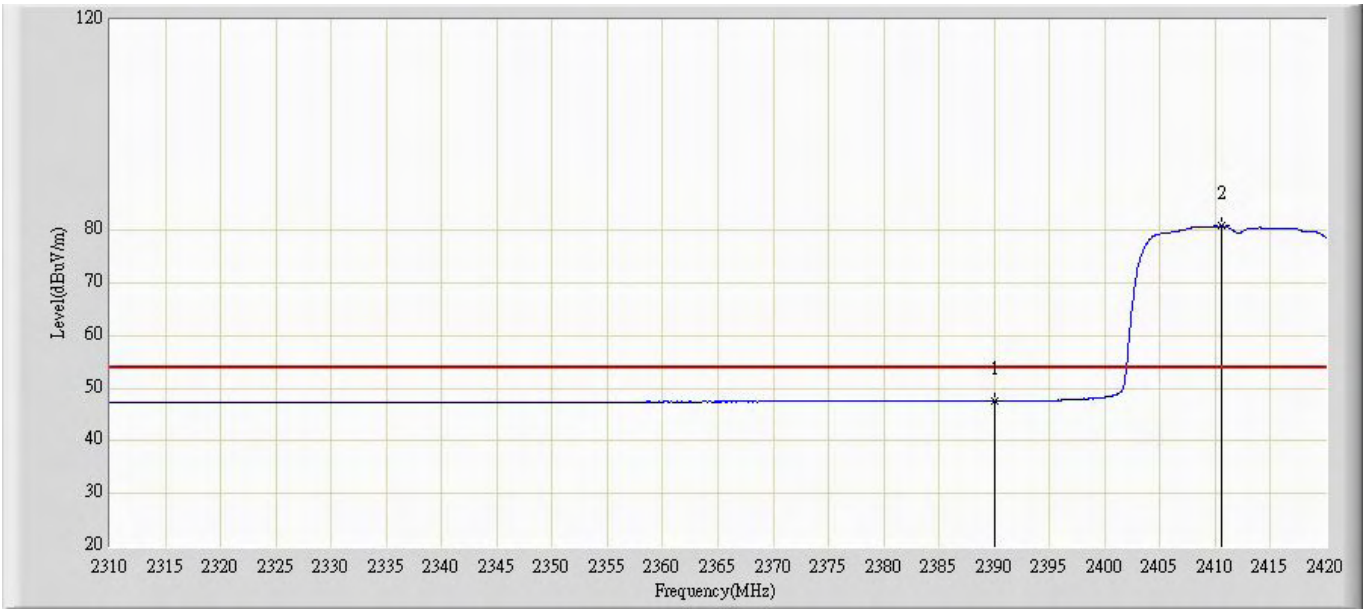
|---|---|
| Profile: 11CS021R | Page No.: 50 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.609 | 16.424 | -6.391 | 54.000 | 31.185 | AV |
| 2 | | * | 2410.540 | 80.795 | 49.615 | N/A | N/A | 31.180 | AV |

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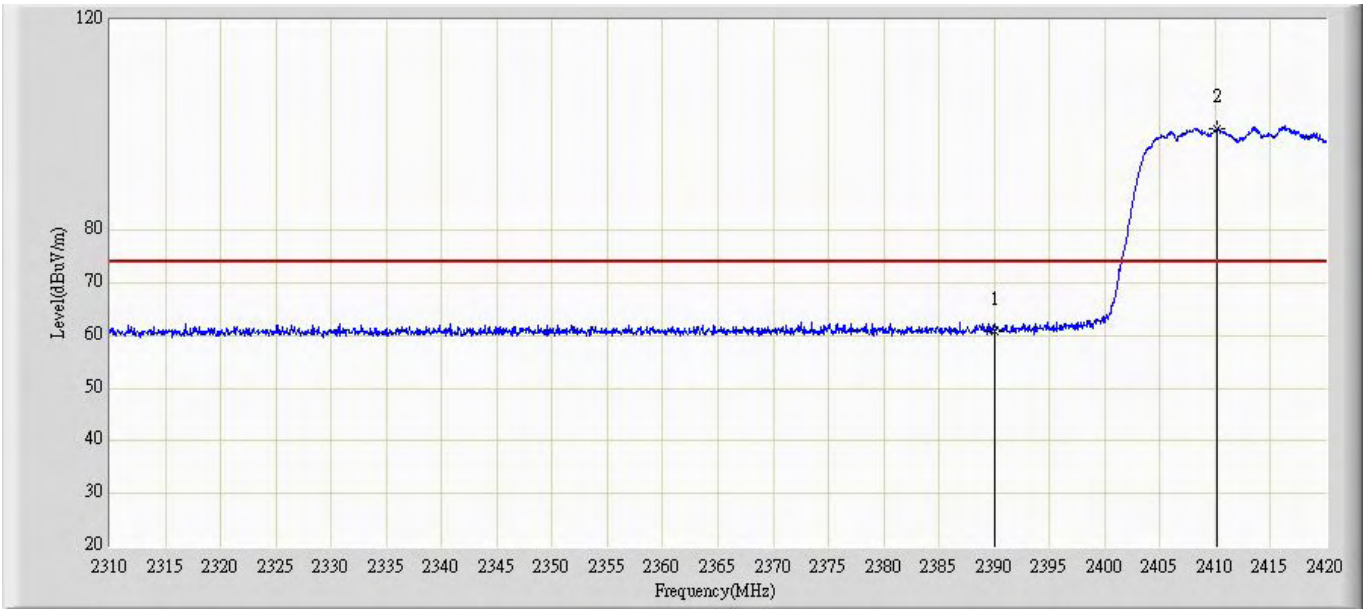
|---|---|
| Profile: 11CS021R | Page No.: 51 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:07 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.944 | 29.759 | -13.056 | 74.000 | 31.185 | PK |
| 2 | | * | 2410.155 | 99.351 | 68.171 | N/A | N/A | 31.180 | PK |

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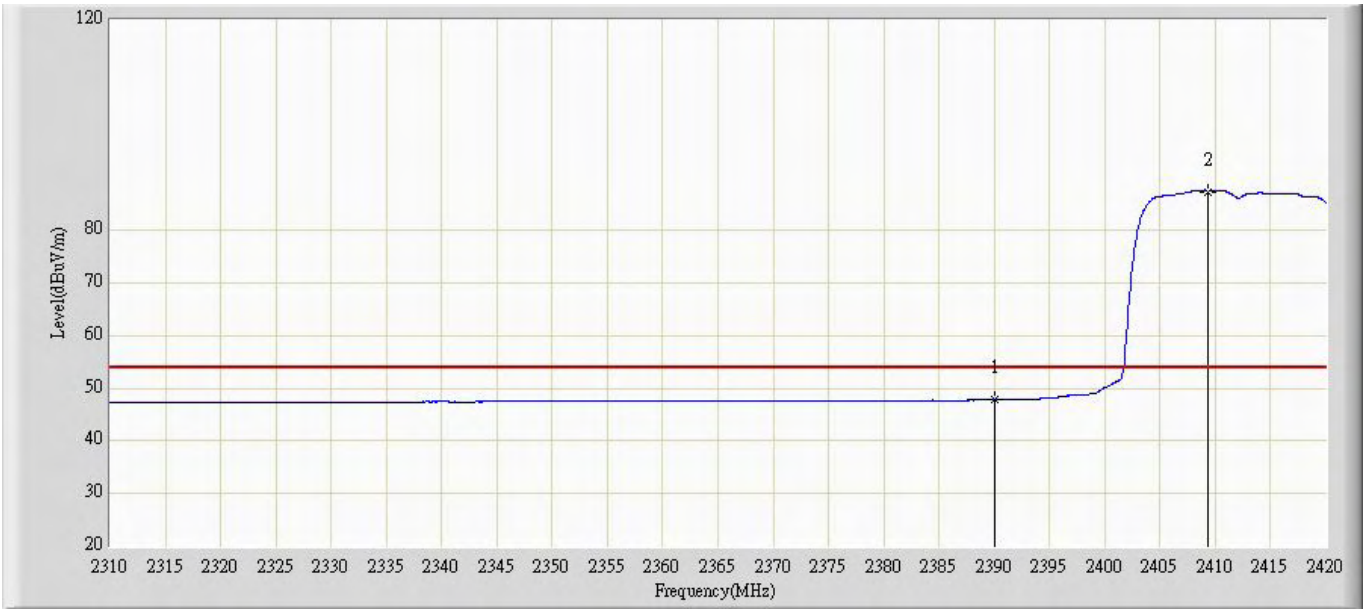
|---|---|
| Profile: 11CS021R | Page No.: 52 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.846 | 16.661 | -6.154 | 54.000 | 31.185 | AV |
| 2 | | * | 2409.330 | 87.362 | 56.182 | N/A | N/A | 31.180 | AV |

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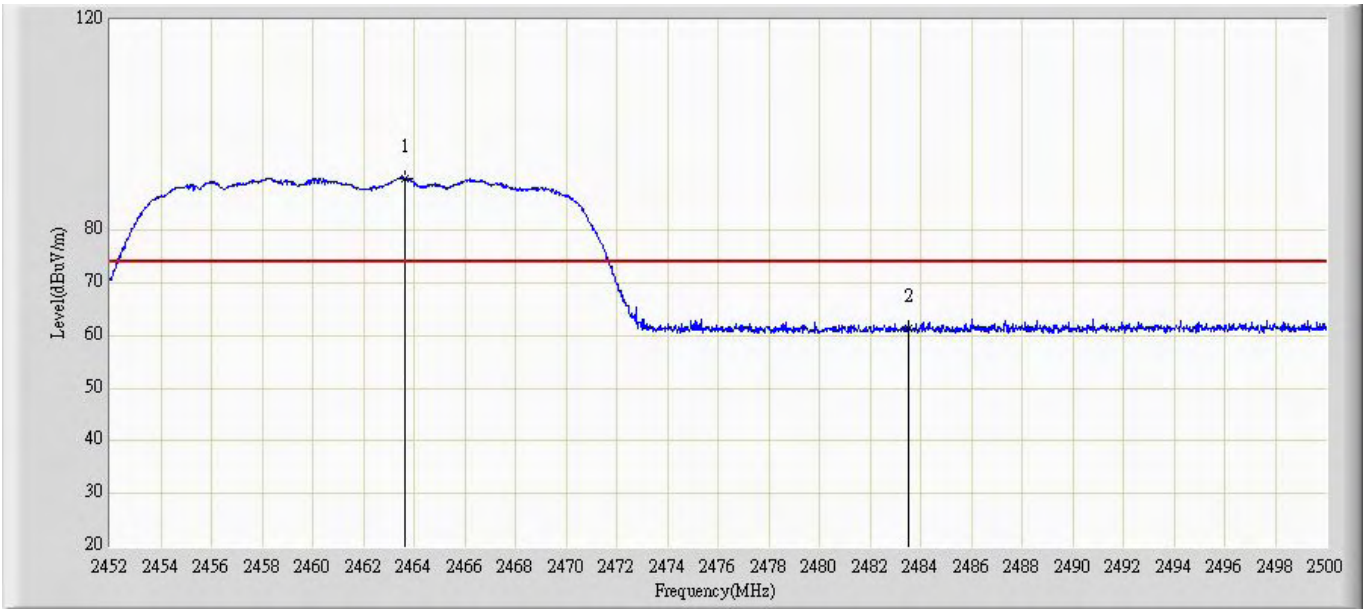
|---|---|
| Profile: 11CS021R | Page No.: 53 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.616 | 89.872 | 58.669 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 61.241 | 30.032 | -12.759 | 74.000 | 31.209 | PK |

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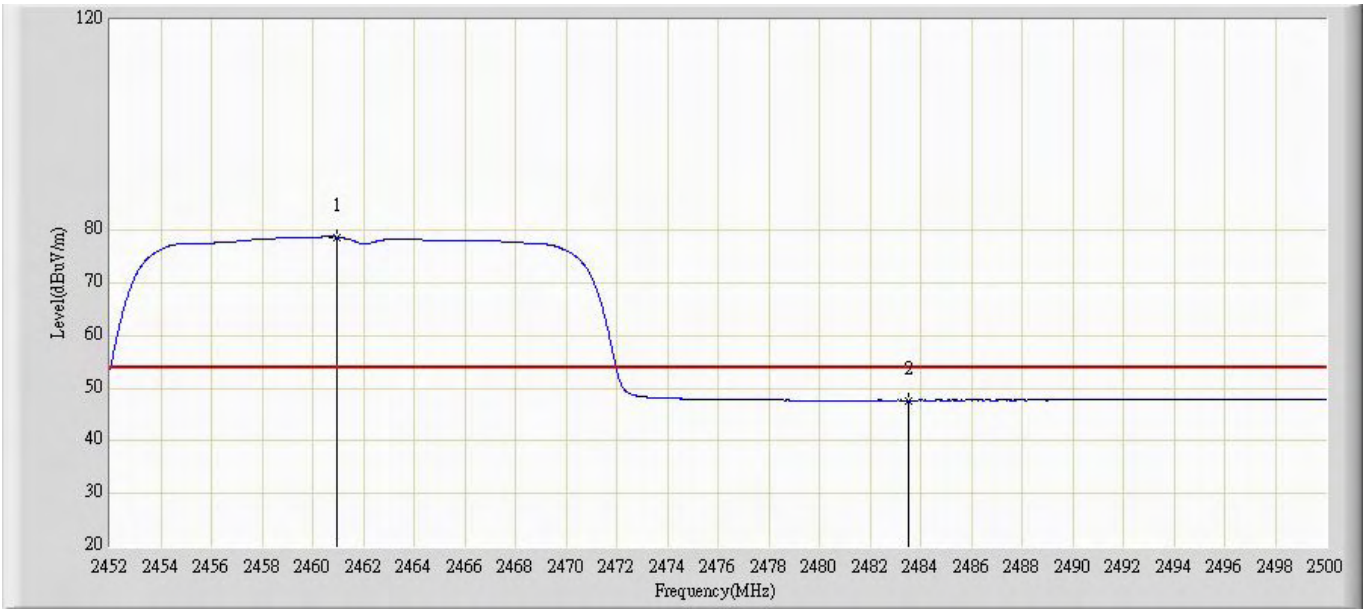
|---|---|
| Profile: 11CS021R | Page No.: 54 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2460.928 | 78.730 | 47.528 | N/A | N/A | 31.202 | AV |
| 2 | | | 2483.500 | 47.715 | 16.506 | -6.285 | 54.000 | 31.209 | AV |

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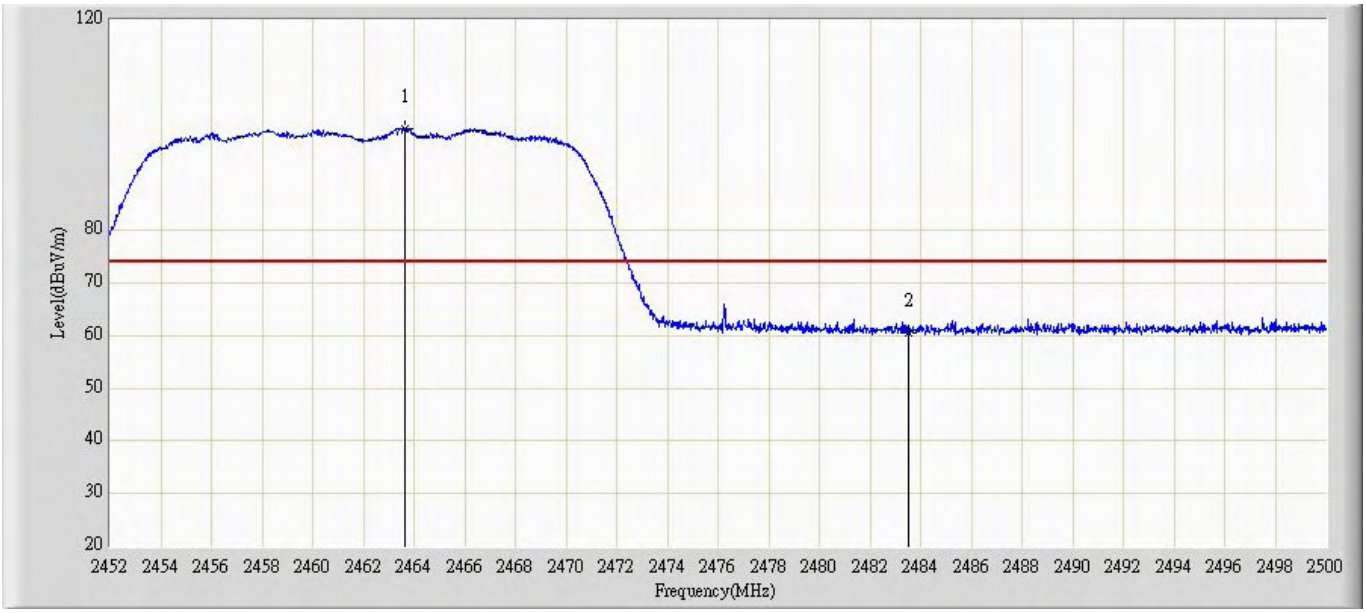
|---|---|
| Profile: 11CS021R | Page No.: 55 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.640 | 99.353 | 68.150 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 60.528 | 29.319 | -13.472 | 74.000 | 31.209 | PK |

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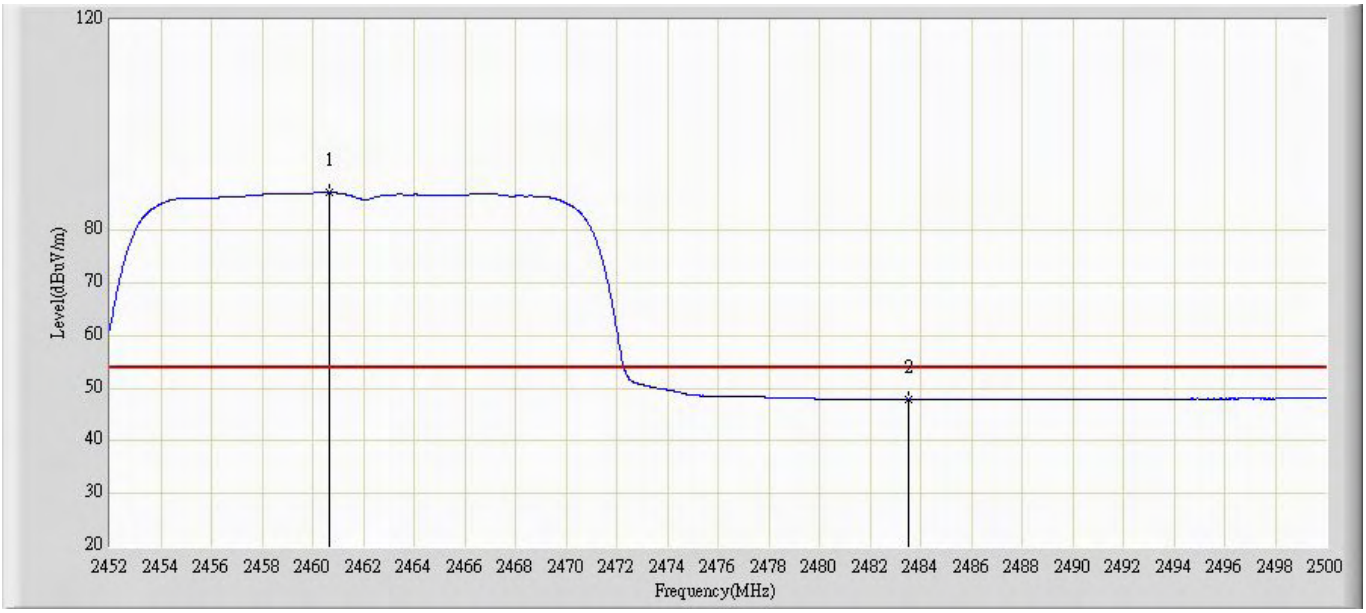
|---|---|
| Profile: 11CS021R | Page No.: 56 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2460.640 | 87.203 | 56.001 | N/A | N/A | 31.202 | AV |
| 2 | | | 2483.500 | 47.876 | 16.667 | -6.124 | 54.000 | 31.209 | AV |

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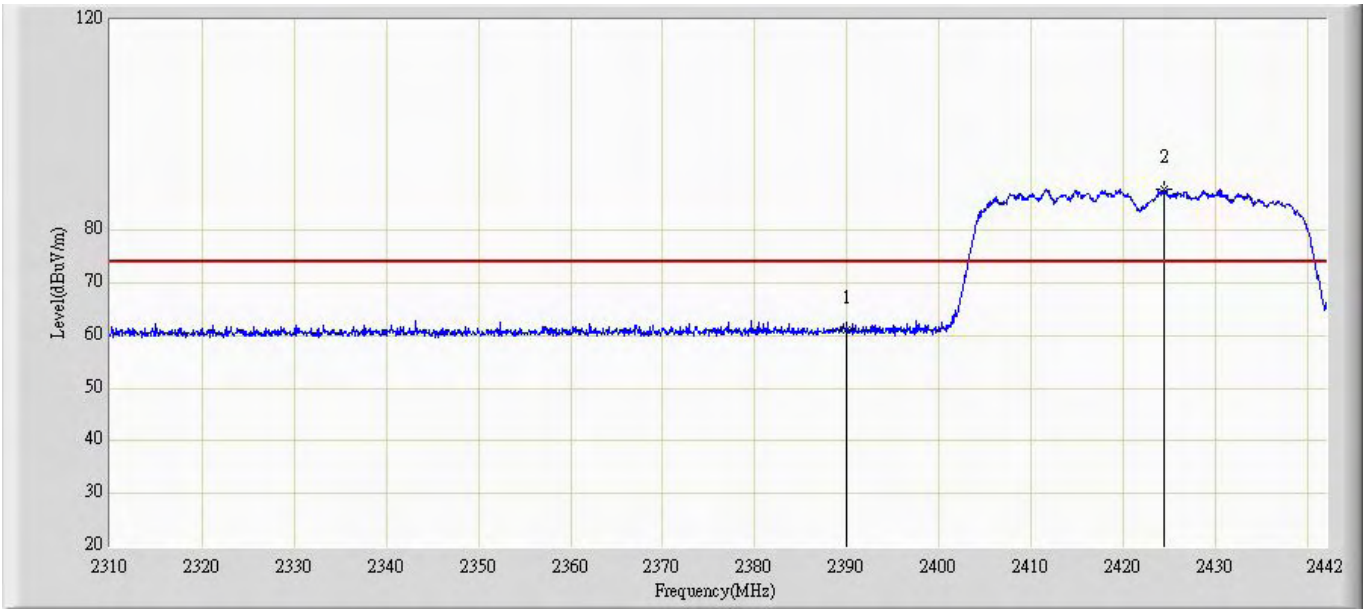
|---|---|
| Profile: 11CS021R | Page No.: 57 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.959 | 29.774 | -13.041 | 74.000 | 31.185 | PK |
| 2 | | * | 2424.510 | 87.701 | 56.516 | N/A | N/A | 31.185 | PK |

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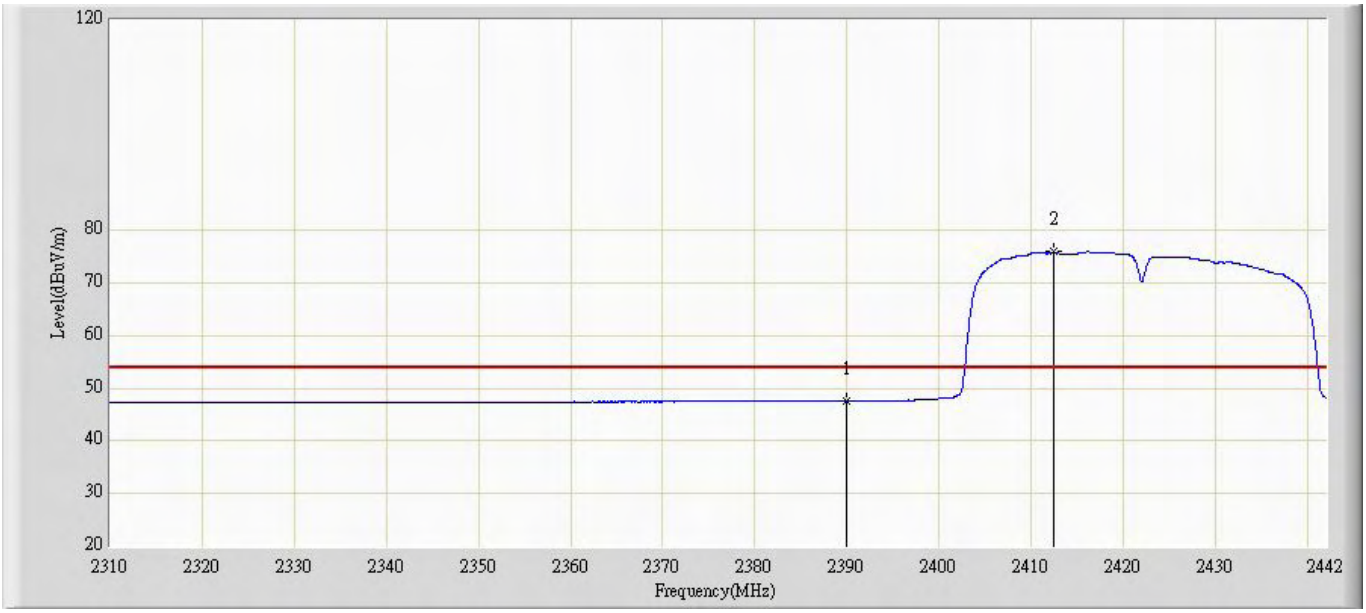
|---|---|
| Profile: 11CS021R | Page No.: 58 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:18 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.651 | 16.466 | -6.349 | 54.000 | 31.185 | AV |
| 2 | | * | 2412.366 | 75.899 | 44.719 | N/A | N/A | 31.180 | AV |

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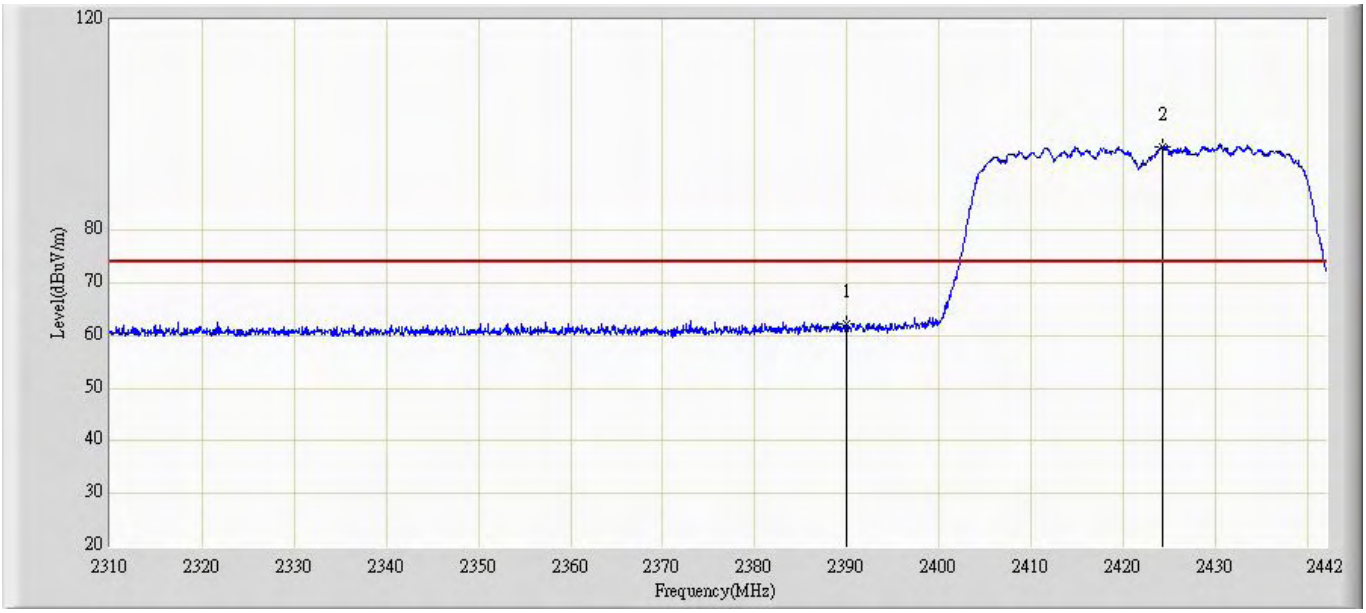
|---|---|
| Profile: 11CS021R | Page No.: 59 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:19 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 62.103 | 30.918 | -11.897 | 74.000 | 31.185 | PK |
| 2 | | * | 2424.246 | 95.978 | 64.793 | N/A | N/A | 31.184 | PK |

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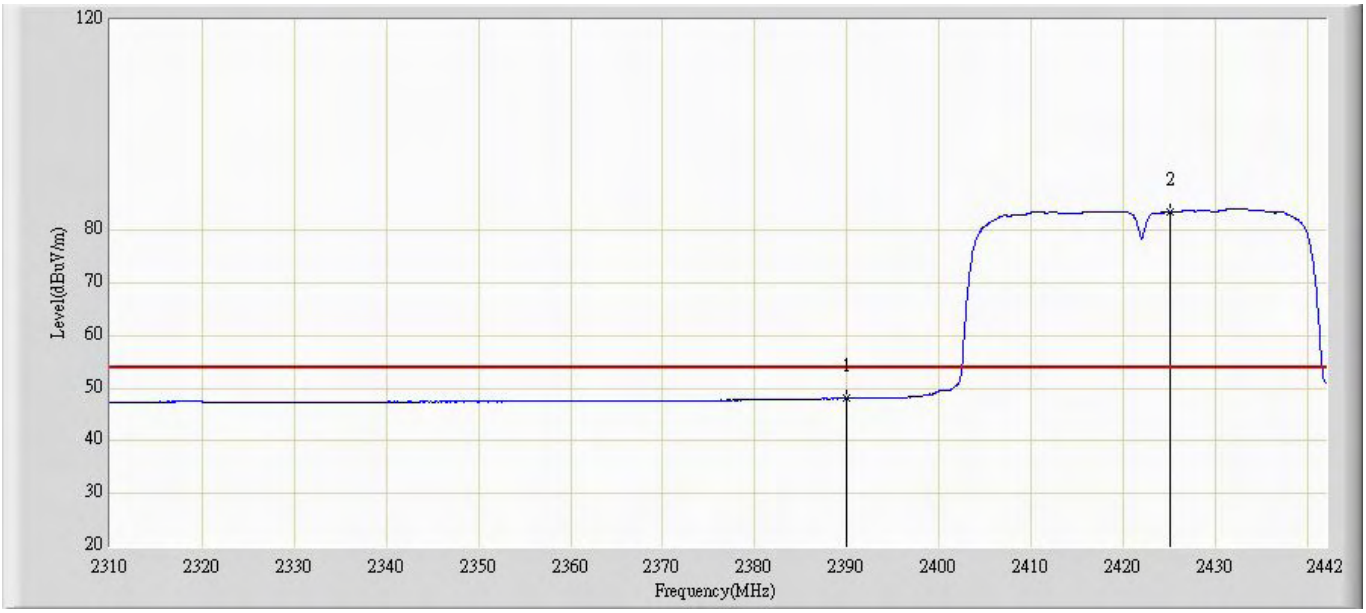
|---|---|
| Profile: 11CS021R | Page No.: 60 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:20 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 48.082 | 16.897 | -5.918 | 54.000 | 31.185 | AV |
| 2 | | * | 2425.038 | 83.513 | 52.328 | N/A | N/A | 31.185 | AV |

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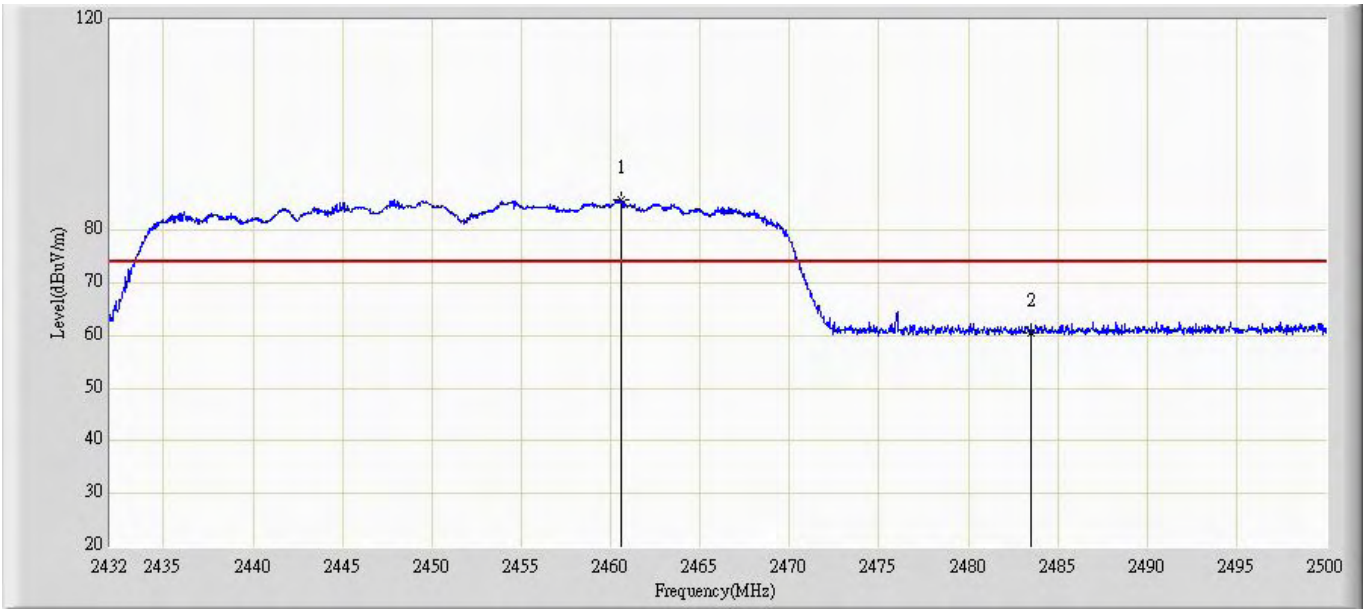
|---|---|
| Profile: 11CS021R | Page No.: 61 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:22 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2460.594 | 85.758 | 54.556 | N/A | N/A | 31.202 | PK |
| 2 | | | 2483.500 | 60.651 | 29.442 | -13.349 | 74.000 | 31.209 | PK |

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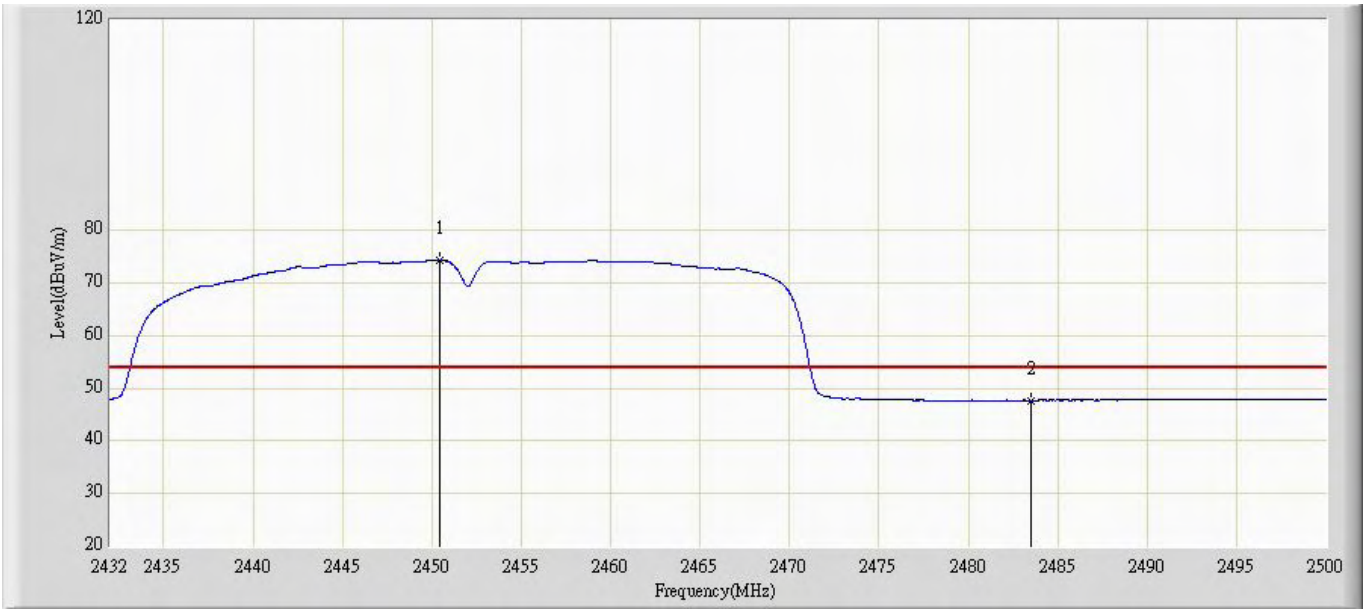
|---|---|
| Profile: 11CS021R | Page No.: 62 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:24 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2450.462 | 74.326 | 43.135 | N/A | N/A | 31.191 | AV |
| 2 | | | 2483.500 | 47.705 | 16.496 | -6.295 | 54.000 | 31.209 | AV |

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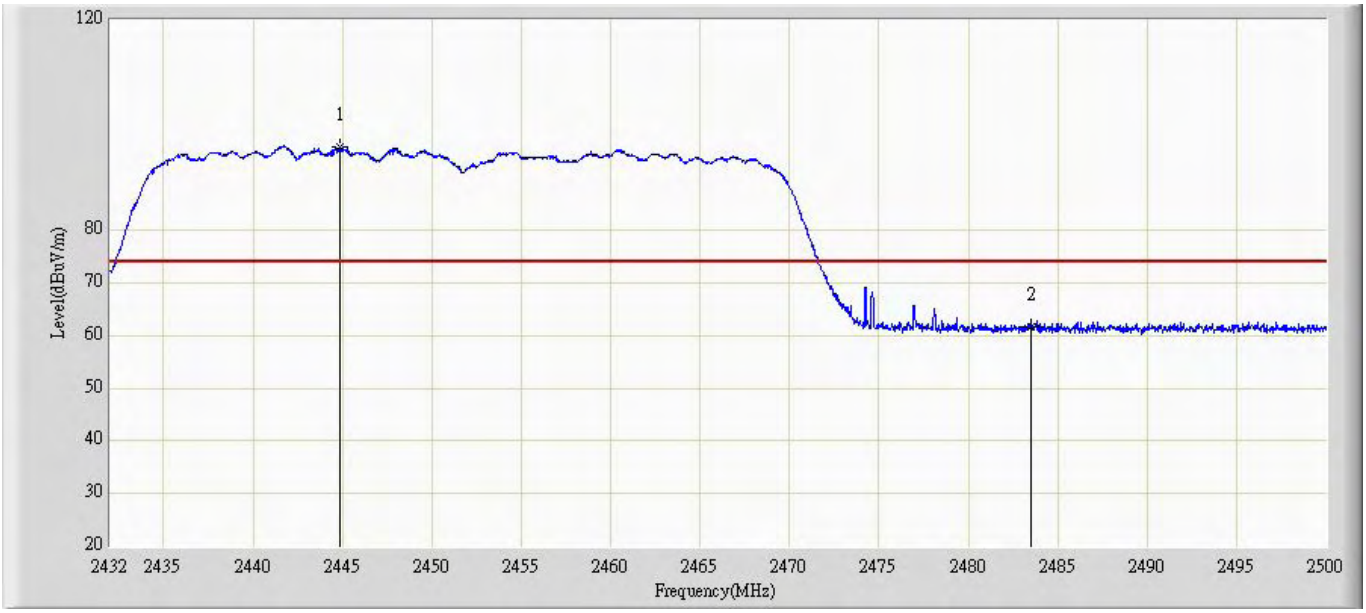
|---|---|
| Profile: 11CS021R | Page No.: 63 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:24 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2444.852 | 95.891 | 64.706 | N/A | N/A | 31.185 | PK |
| 2 | | | 2483.500 | 61.586 | 30.377 | -12.414 | 74.000 | 31.209 | PK |

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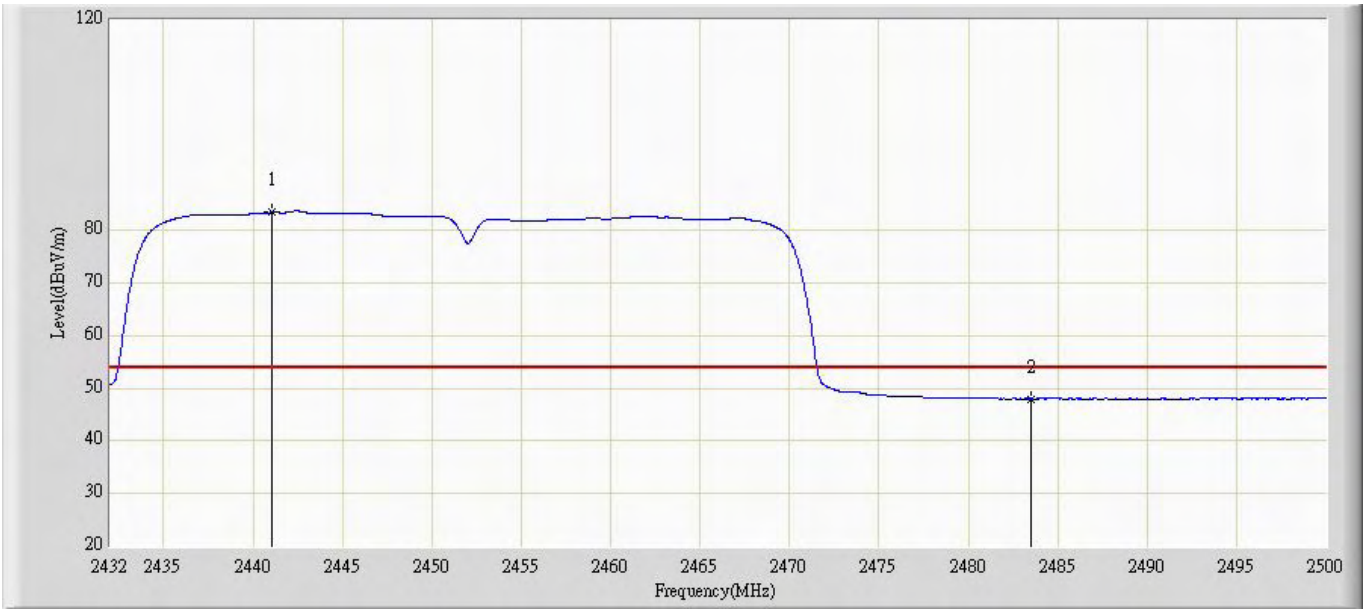
|---|---|
| Profile: 11CS021R | Page No.: 64 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:26 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2441.044 | 83.389 | 52.204 | N/A | N/A | 31.185 | AV |
| 2 | | | 2483.500 | 48.016 | 16.807 | -5.984 | 54.000 | 31.209 | AV |

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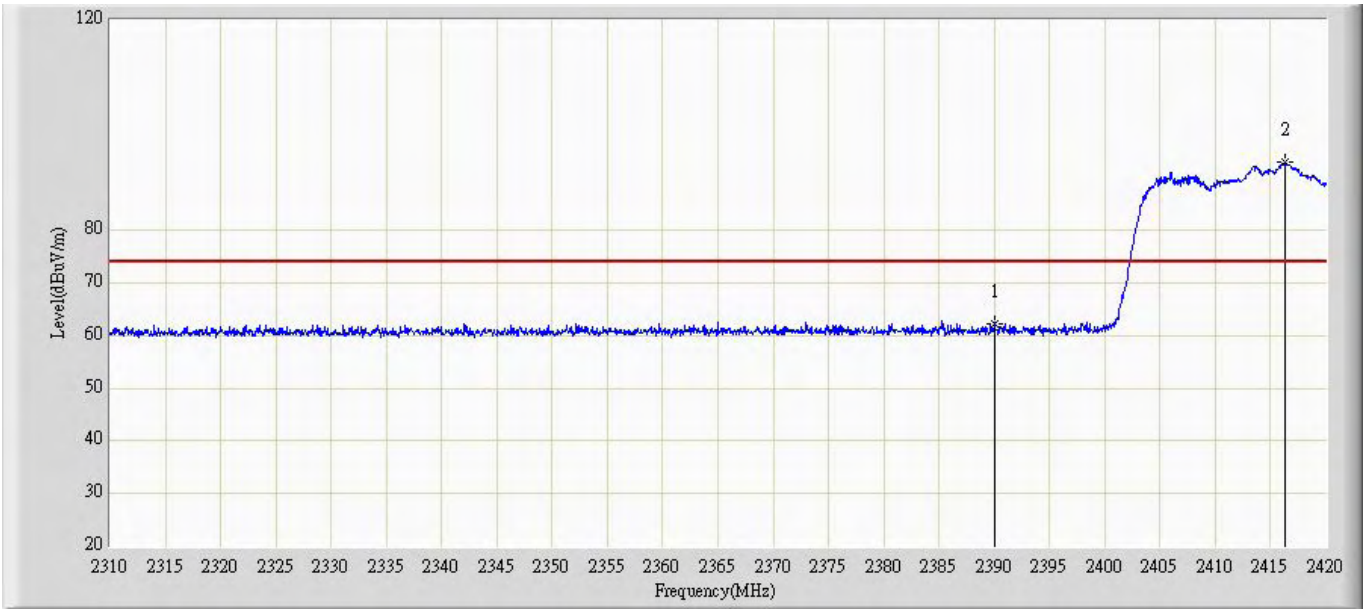
|---|---|
| Profile: 11CS021R | Page No.: 65 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:27 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 62.158 | 30.973 | -11.842 | 74.000 | 31.185 | PK |
| 2 | | * | 2416.315 | 92.897 | 61.715 | N/A | N/A | 31.182 | PK |

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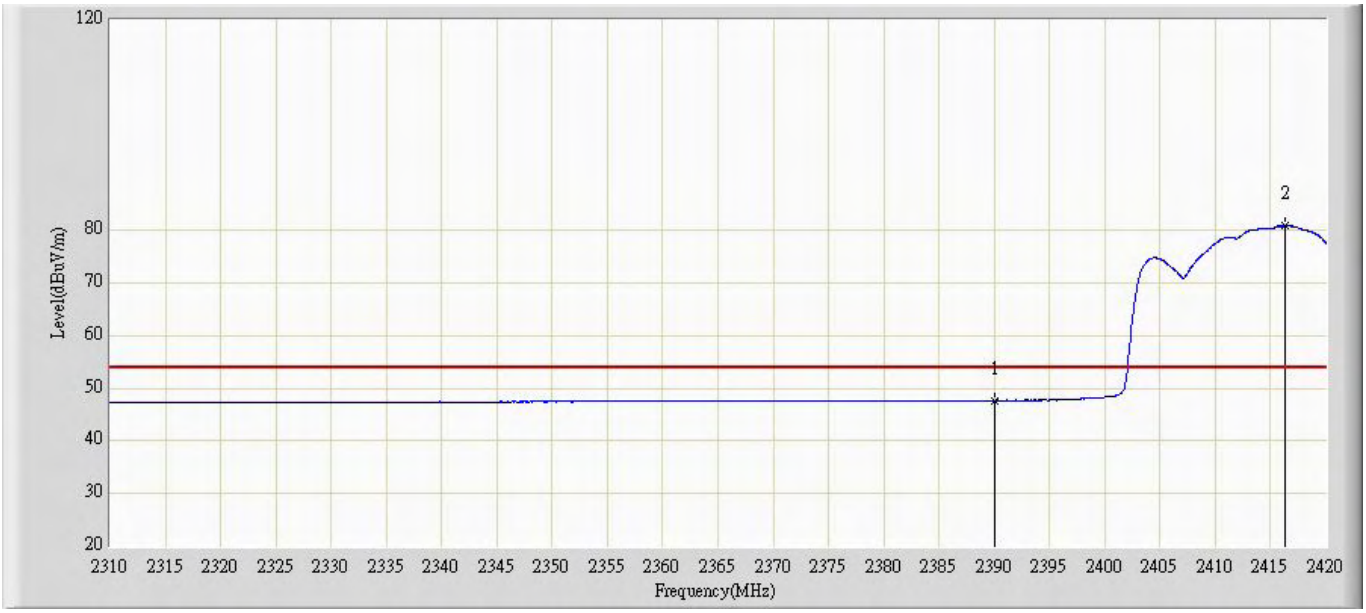
|---|---|
| Profile: 11CS021R | Page No.: 66 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:30 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.712 | 16.527 | -6.288 | 54.000 | 31.185 | AV |
| 2 | | * | 2416.370 | 80.809 | 49.627 | N/A | N/A | 31.182 | AV |

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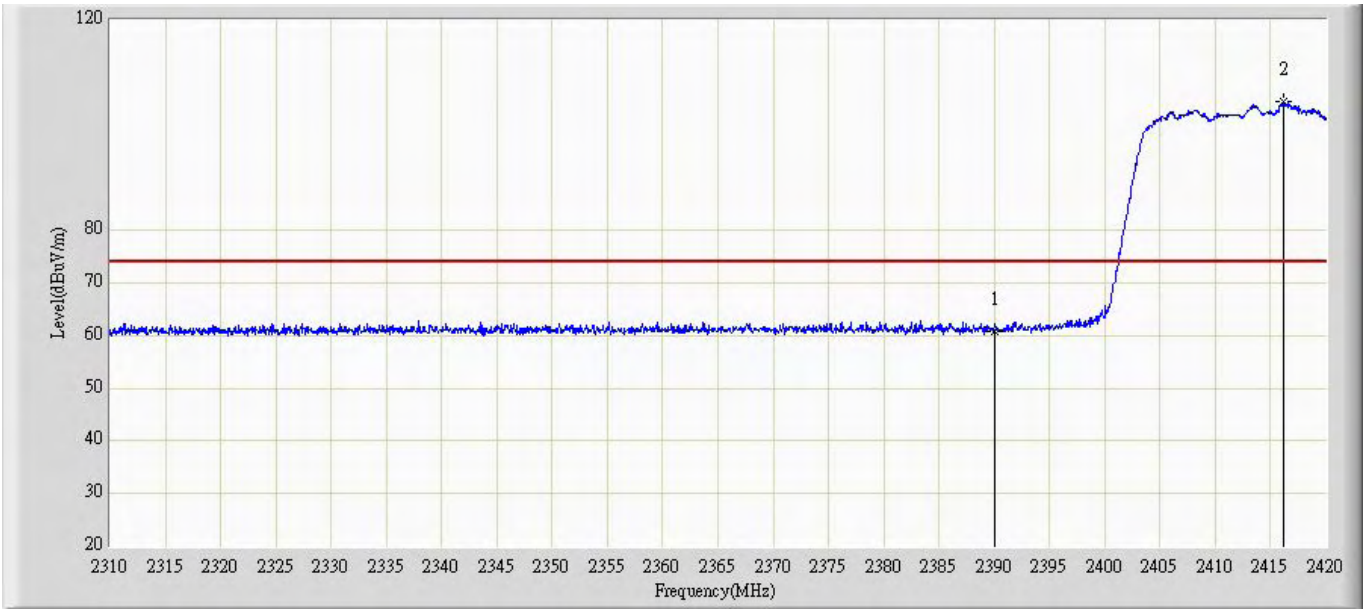
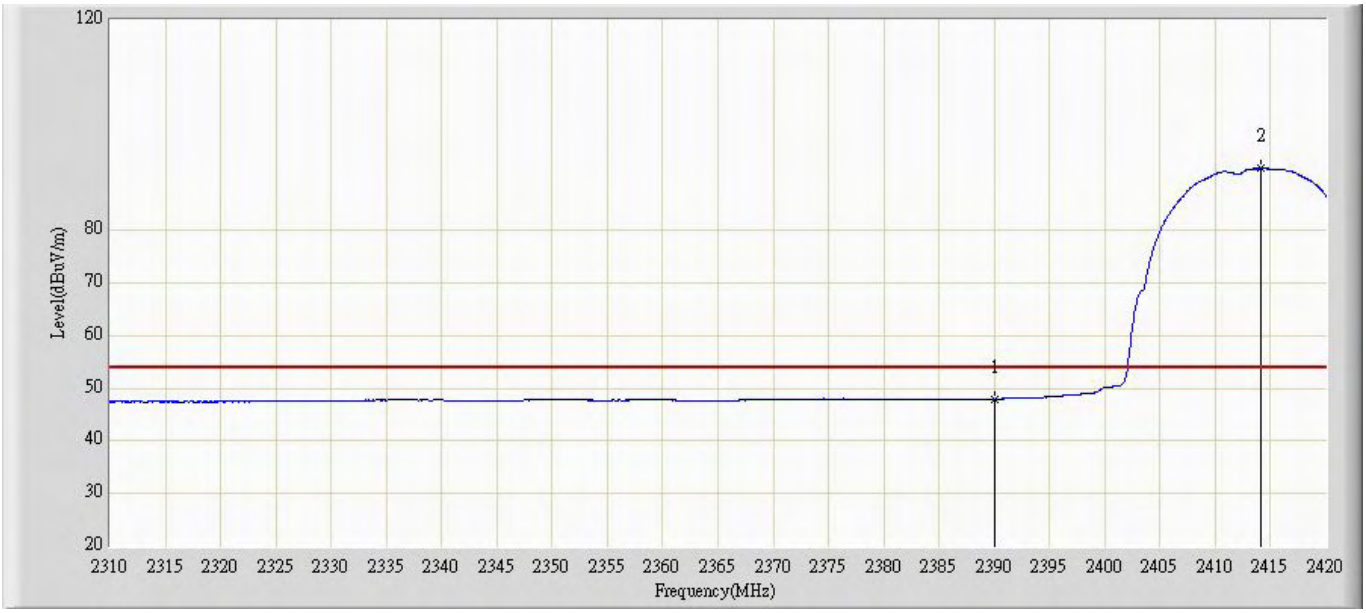
|---|---|
| Profile: 11CS021R | Page No.: 67 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:31 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.893 | 29.708 | -13.107 | 74.000 | 31.185 | PK |
| 2 | | * | 2416.205 | 104.451 | 73.269 | N/A | N/A | 31.182 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 68 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:34 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2412MHz by 802.11n(20MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.993 | 16.808 | -6.007 | 54.000 | 31.185 | AV |
| 2 | | * | 2414.115 | 91.834 | 60.653 | N/A | N/A | 31.181 | AV |

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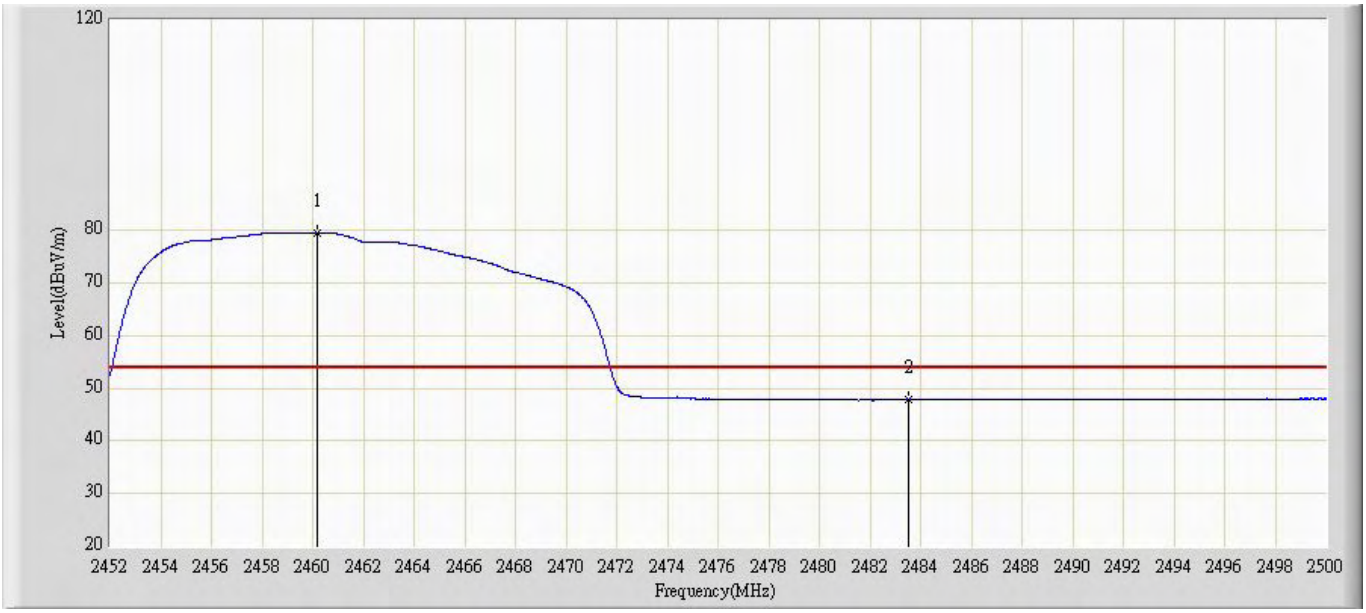
|---|---|
| Profile: 11CS021R | Page No.: 69 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:40 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0+1) | |

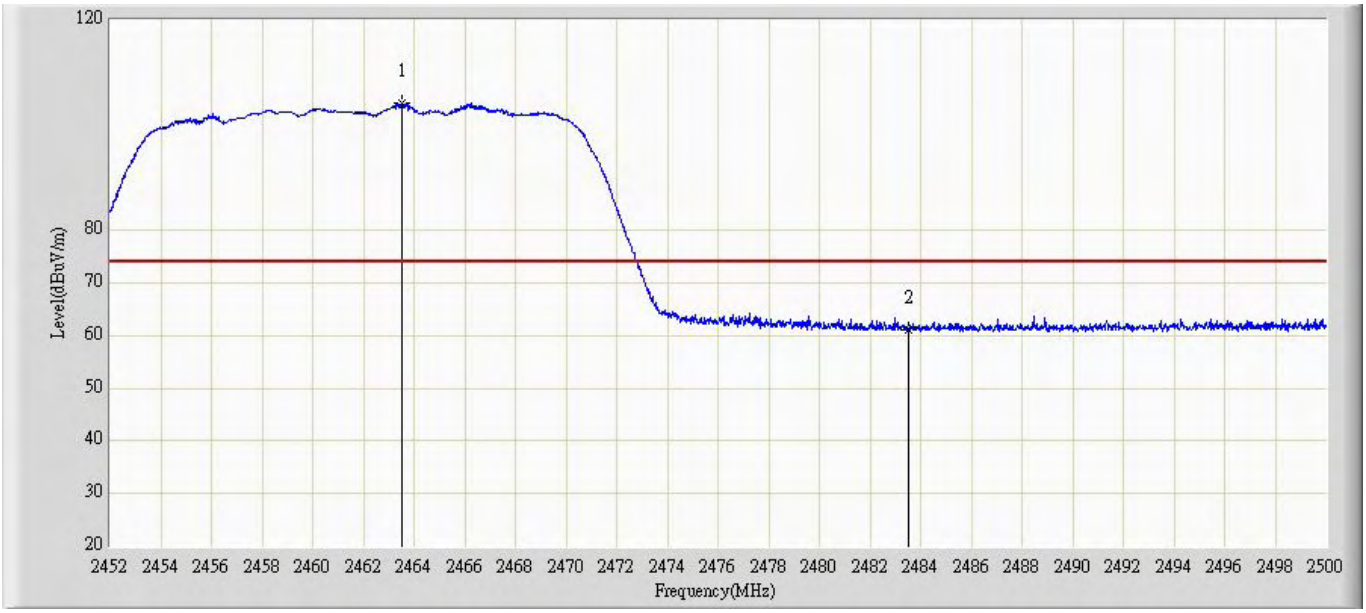

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2466.136 | 92.769 | 61.565 | N/A | N/A | 31.204 | PK |
| 2 | | | 2483.500 | 61.034 | 29.825 | -12.966 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 70 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:40 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0+1) | |



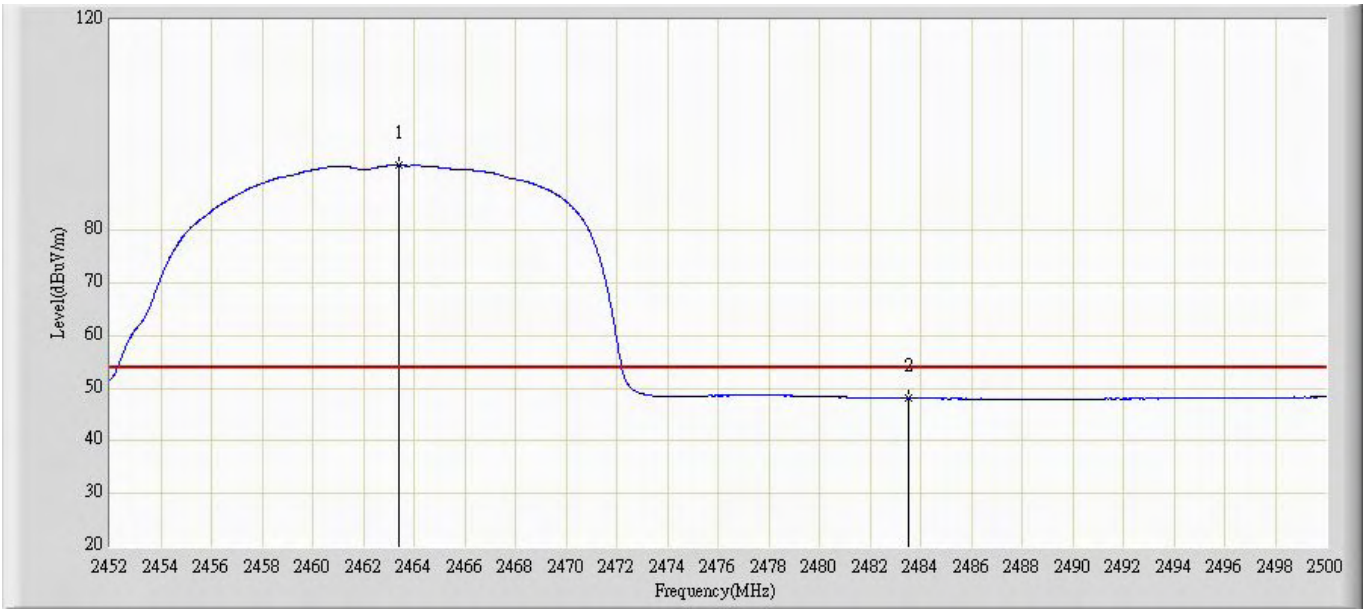

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2460.184 | 79.524 | 48.323 | N/A | N/A | 31.201 | AV |
| 2 | | | 2483.500 | 47.786 | 16.577 | -6.214 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 71 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:42 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0+1) | |



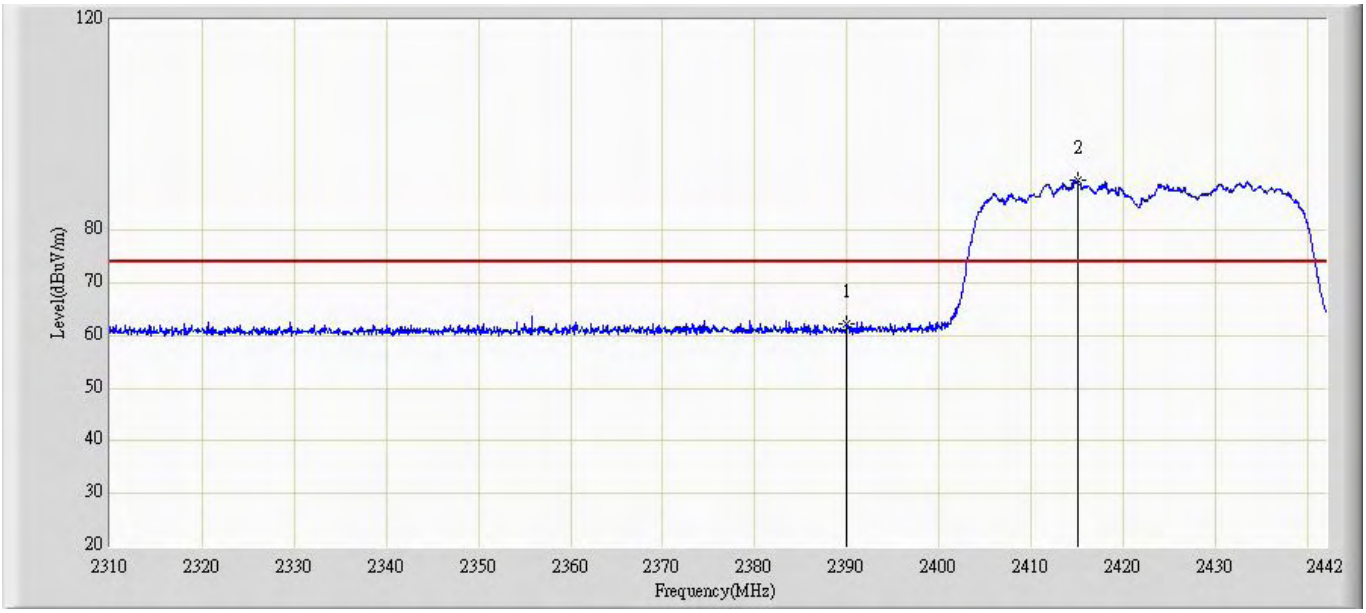

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.544 | 104.147 | 72.944 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 61.071 | 29.862 | -12.929 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 72 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:44 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode3: Transmit at channel 2462MHz by 802.11n(20MHz) (Chain 0+1) | |



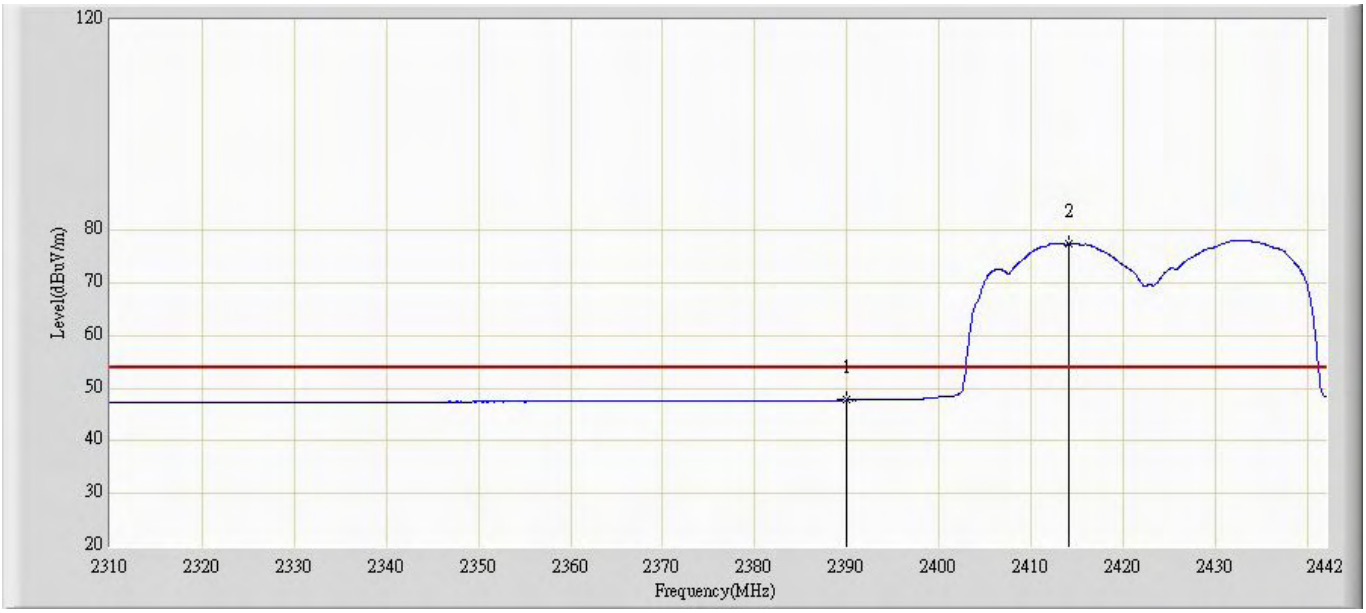

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.400 | 92.324 | 61.121 | N/A | N/A | 31.203 | AV |
| 2 | | | 2483.500 | 48.130 | 16.921 | -5.870 | 54.000 | 31.209 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 73 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:46 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 62.199 | 31.014 | -11.801 | 74.000 | 31.185 | PK |
| 2 | | * | 2415.006 | 89.433 | 58.252 | N/A | N/A | 31.182 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 74 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:48 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.740 | 16.555 | -6.260 | 54.000 | 31.185 | AV |
| 2 | | * | 2414.016 | 77.406 | 46.225 | N/A | N/A | 31.181 | AV |

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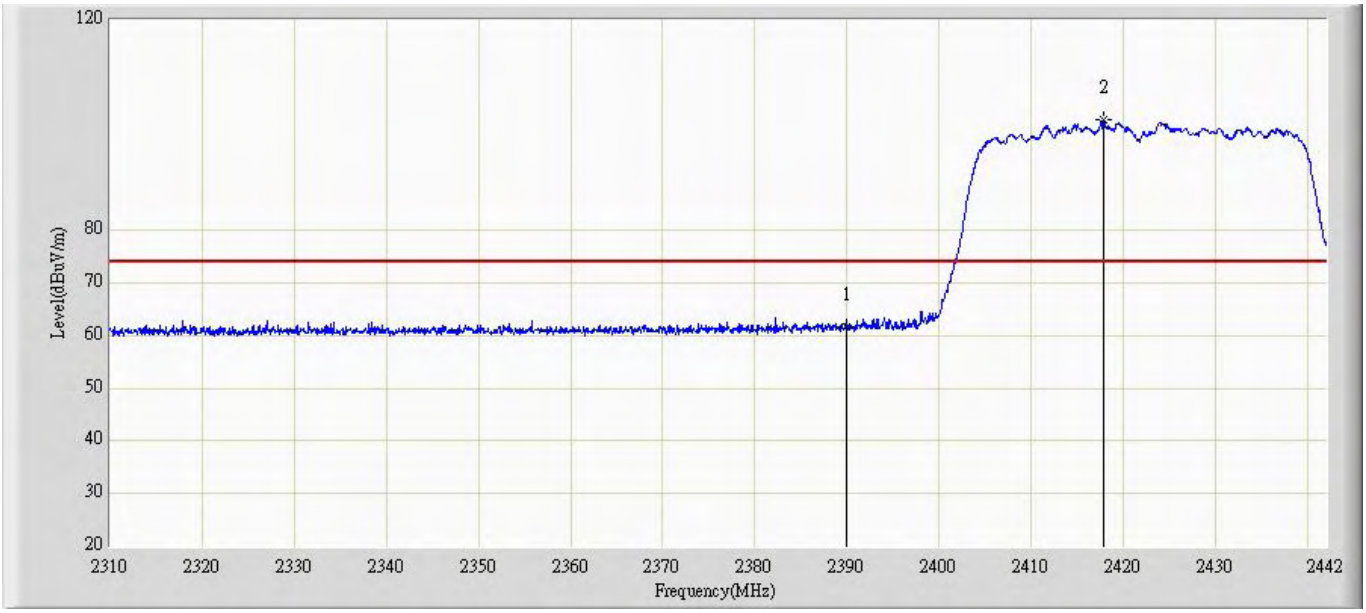
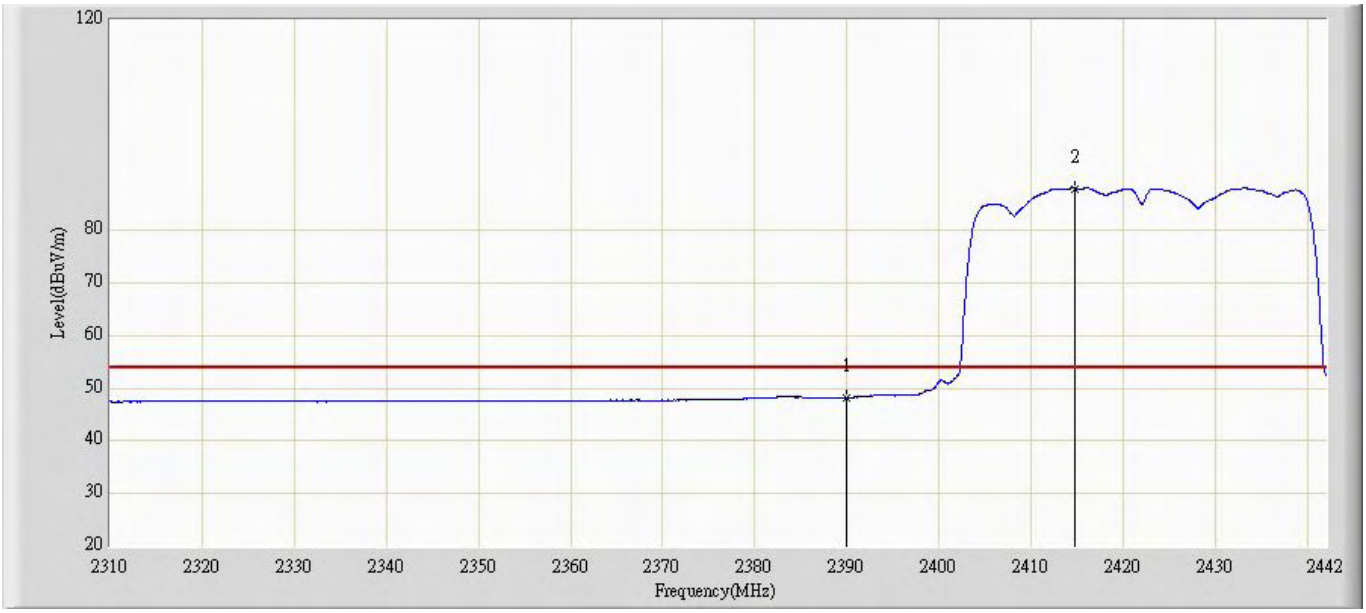
|---|---|
| Profile: 11CS021R | Page No.: 75 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:50 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 0+1) | |



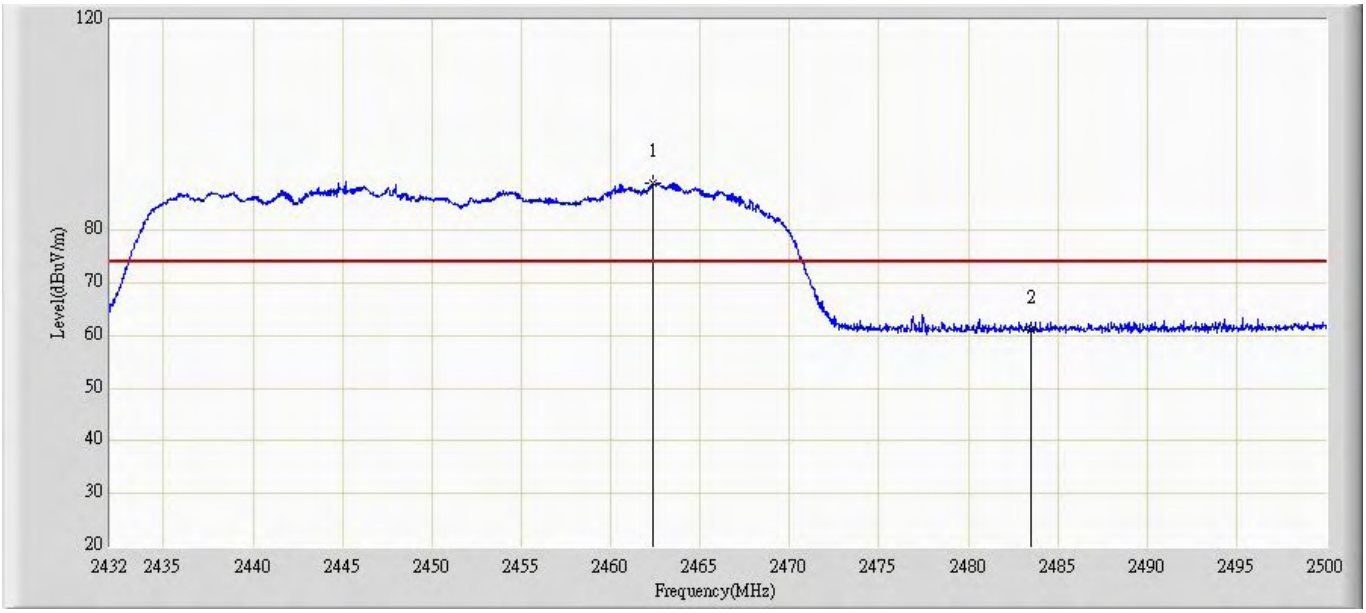

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.591 | 30.406 | -12.409 | 74.000 | 31.185 | PK |
| 2 | | * | 2417.844 | 100.995 | 69.813 | N/A | N/A | 31.182 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 76 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:52 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2422MHz by 802.11n(40MHz) (Chain 0+1) | |



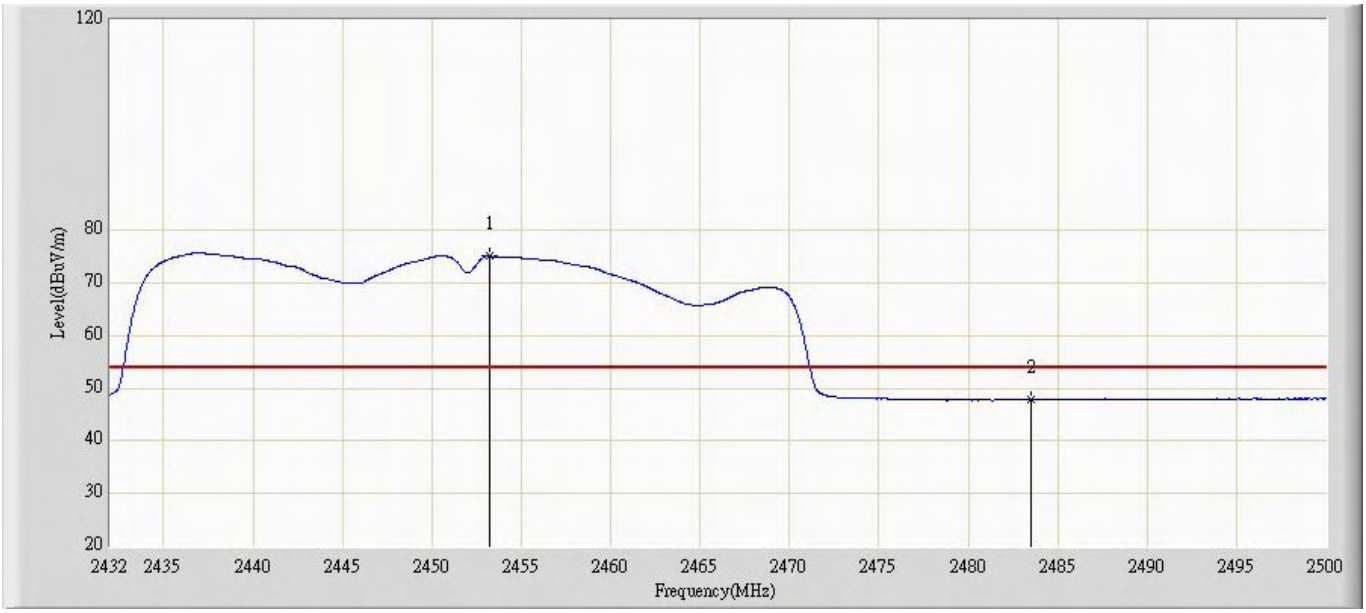

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 48.155 | 16.970 | -5.845 | 54.000 | 31.185 | AV |
| 2 | | * | 2414.808 | 87.942 | 56.761 | N/A | N/A | 31.182 | AV |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 77 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:53 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.362 | 88.915 | 57.712 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 60.992 | 29.783 | -13.008 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 78 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:56 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2453.216 | 75.074 | 43.880 | N/A | N/A | 31.194 | AV |
| 2 | | | 2483.500 | 47.811 | 16.602 | -6.189 | 54.000 | 31.209 | AV |

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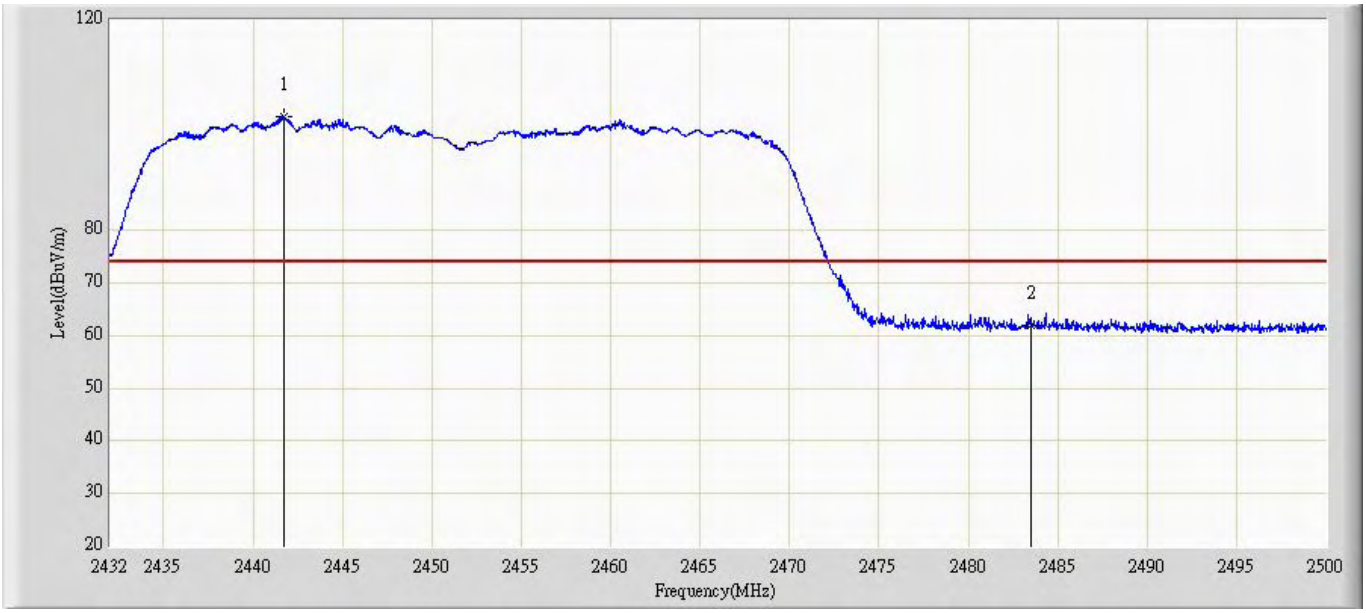
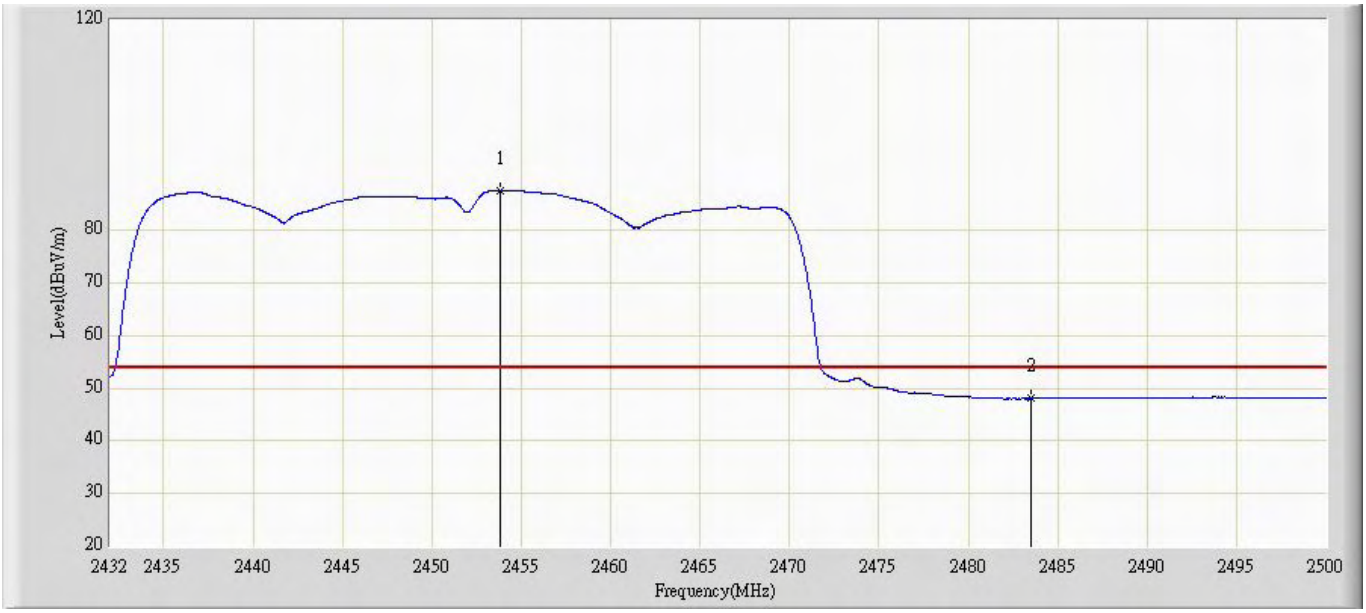
|---|---|
| Profile: 11CS021R | Page No.: 79 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:57 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2441.690 | 101.712 | 70.527 | N/A | N/A | 31.185 | PK |
| 2 | | | 2483.500 | 61.911 | 30.702 | -12.089 | 74.000 | 31.209 | PK |

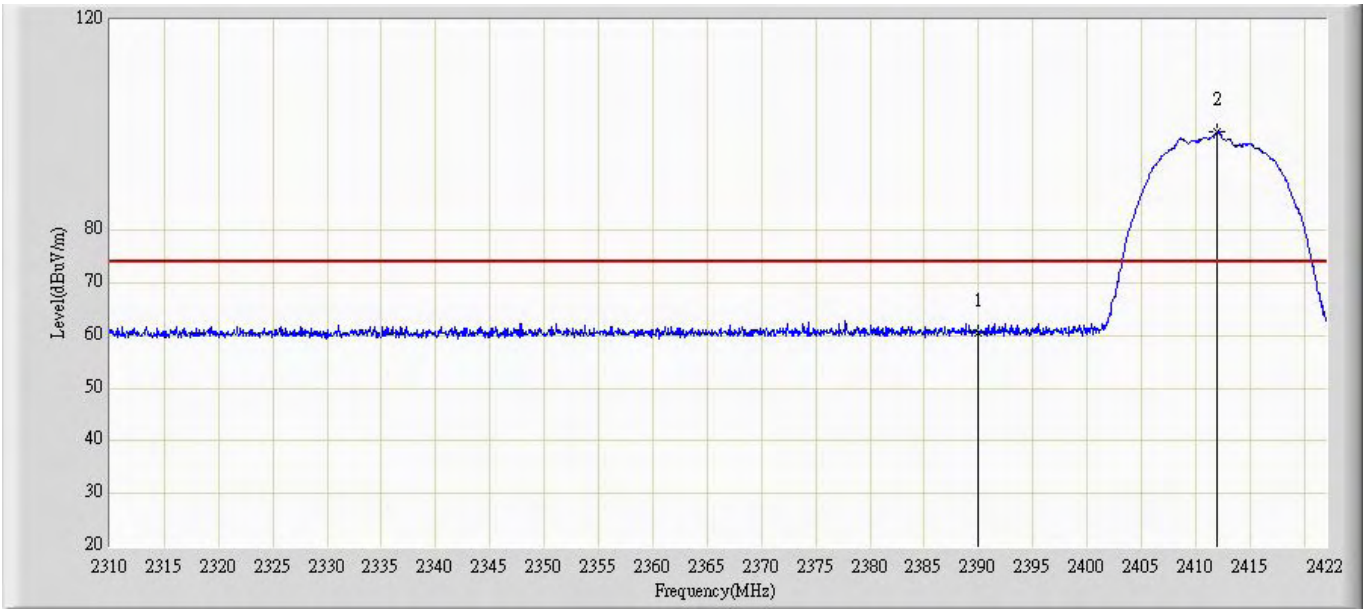
| | |
|---|---|
| Profile: 11CS021R | Page No.: 80 |
| Engineer: Jame | |
| Site: AC5 | Time: 2011/12/12 - 16:58 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode4: Transmit at channel 2452MHz by 802.11n(40MHz) (Chain 0+1) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2453.862 | 87.586 | 56.392 | N/A | N/A | 31.194 | AV |
| 2 | | | 2483.500 | 48.053 | 16.844 | -5.947 | 54.000 | 31.209 | AV |

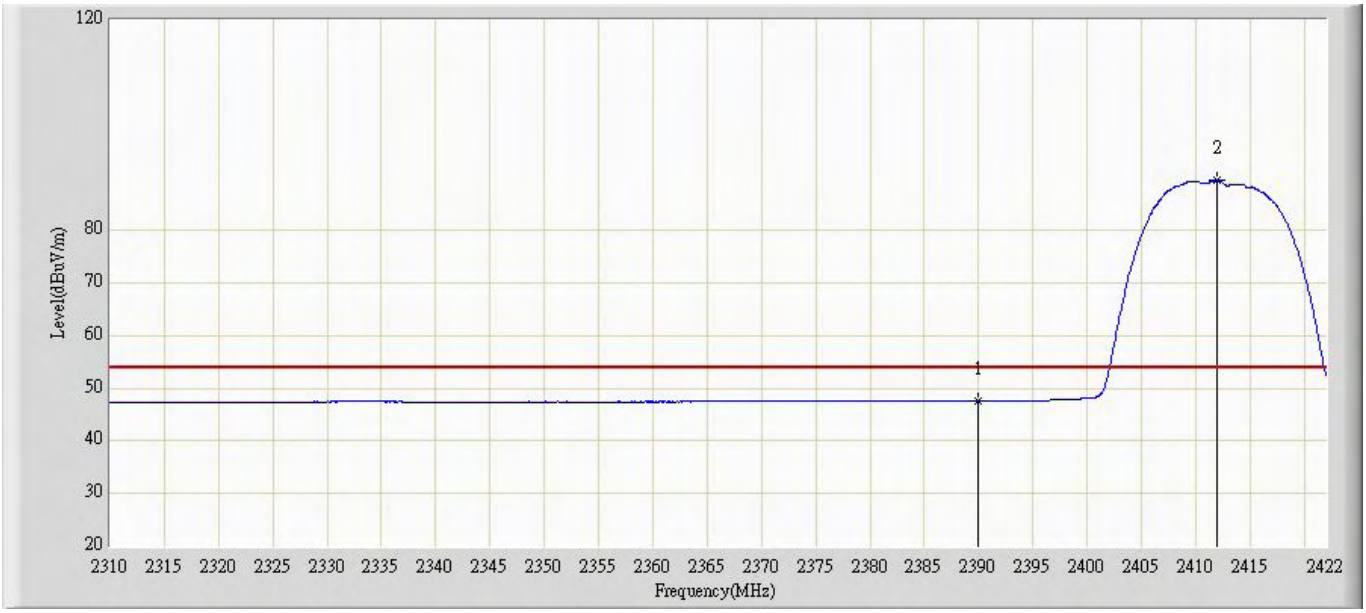
Test by build-in antenna (PCB antenna)

| | |
|---|---|
| Profile: 11CS021R | Page No.: 1 |
| Engineer: Toms | |
| Site: AC5 | Time: 2011/12/17 - 14:48 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode 1: Transmit at channel 2412MHz by 802.11b (chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 60.529 | 29.344 | -13.471 | 74.000 | 31.185 | PK |
| 2 | | * | 2412.032 | 98.777 | 67.597 | N/A | N/A | 31.180 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 2 |
| Engineer: toms | |
| Site: AC5 | Time: 2011/12/17 - 14:51 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode 1: Transmit at channel 2412MHz by 802.11b (chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.658 | 16.473 | -6.342 | 54.000 | 31.185 | AV |
| 2 | | * | 2412.032 | 89.568 | 58.388 | N/A | N/A | 31.180 | AV |

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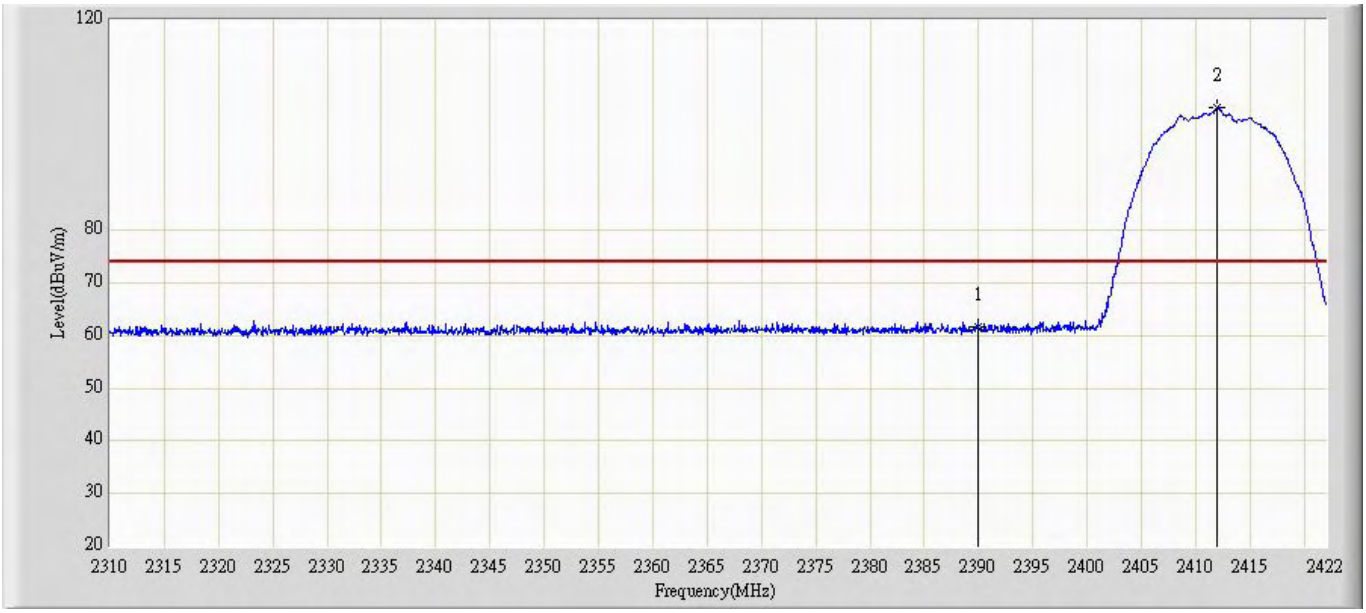
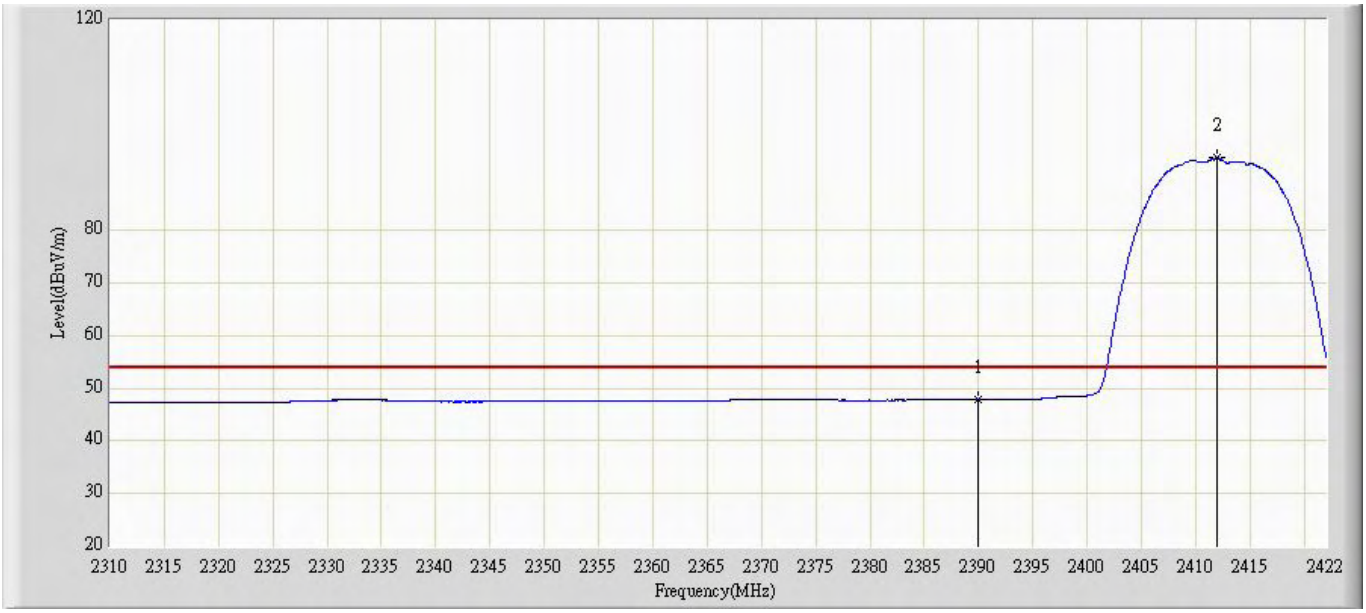
|---|---|
| Profile: 11CS021R | Page No.: 3 |
| Engineer: toms | |
| Site: AC5 | Time: 2011/12/17 - 15:05 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode 1: Transmit at channel 2412MHz by 802.11b (chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 61.635 | 30.450 | -12.365 | 74.000 | 31.185 | PK |
| 2 | | * | 2412.032 | 103.409 | 72.229 | N/A | N/A | 31.180 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 4 |
| Engineer: toms | |
| Site: AC5 | Time: 2011/12/17 - 15:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Vertical |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode 1: Transmit at channel 2412MHz by 802.11b (chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 47.832 | 16.647 | -6.168 | 54.000 | 31.185 | AV |
| 2 | | * | 2411.920 | 93.762 | 62.582 | N/A | N/A | 31.180 | AV |

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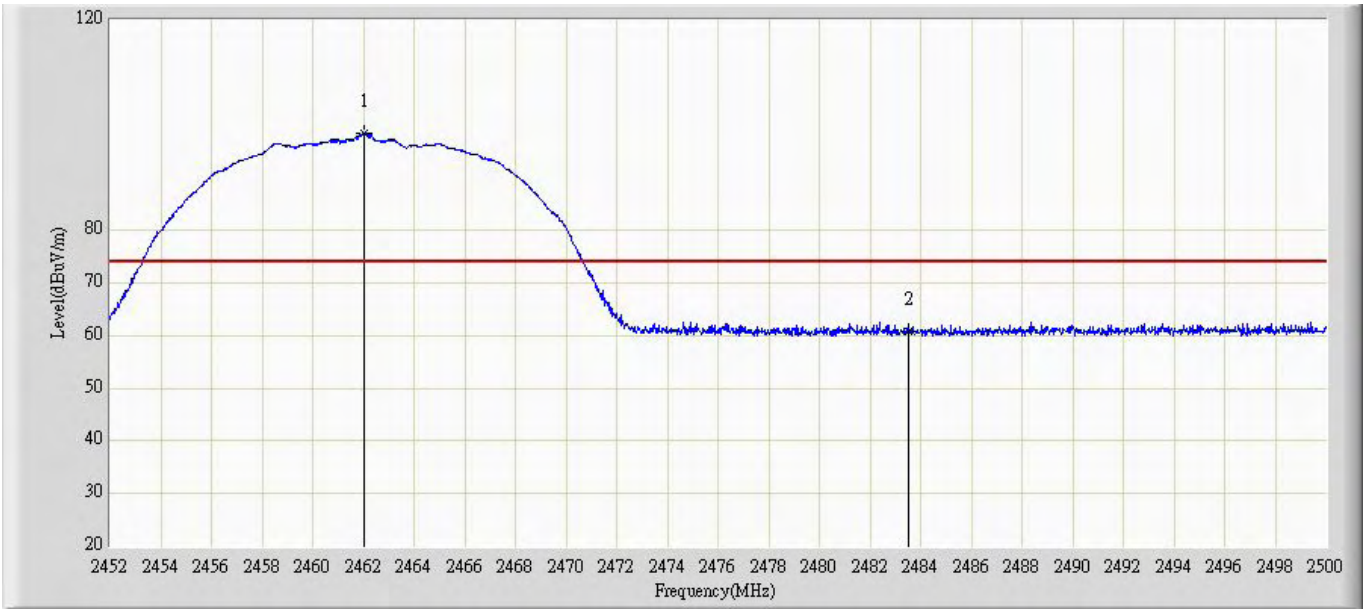
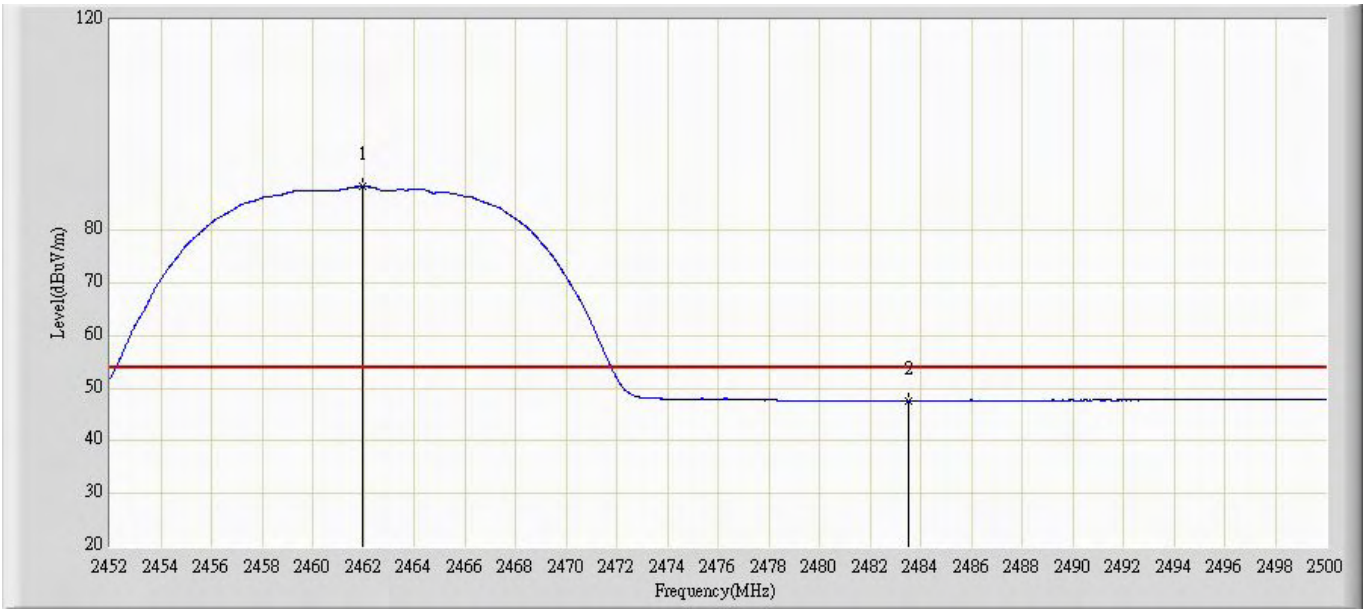
|---|---|
| Profile: 11CS021R | Page No.: 7 |
| Engineer: toms | |
| Site: AC5 | Time: 2011/12/17 - 15:19 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode 1: Transmit at channel 2462MHz by 802.11b (chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.056 | 98.482 | 67.279 | N/A | N/A | 31.203 | PK |
| 2 | | | 2483.500 | 60.935 | 29.726 | -13.065 | 74.000 | 31.209 | PK |

| | |
|---|---|
| Profile: 11CS021R | Page No.: 8 |
| Engineer: toms | |
| Site: AC5 | Time: 2011/12/17 - 15:20 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: BBHA9120D_499(1-18GHz) | Polarity: Horizontal |
| EUT: Wireless LAN Module | Power: AC 120V/60Hz |
| Note: Mode 1: Transmit at channel 2462MHz by 802.11b (chain 0) | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2461.984 | 88.333 | 57.130 | N/A | N/A | 31.203 | AV |
| 2 | | | 2483.500 | 47.671 | 16.462 | -6.329 | 54.000 | 31.209 | AV |