

TECHNICAL CONSULTING CO., LTD



**ISO/IEC17025Accredited Lab.**

Report No:  
File reference No:

FCC TW1212083  
2012-12-21

Applicant: Damotelis Logistic Ltd

Product: SET TOP BOX

Trademark: MAAXTV

Model No: LN4000

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung  
Manager

Dated: Dec 21, 2012

**Results appearing herein relate only to the sample tested  
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD**

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao, FuTian District, Shenzhen, CHINA.

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## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC- Registration No.: IC5205A-02**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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## Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996

Site on File with the Federal Communications Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Damotelis Logistic Ltd  
Address: Box 33121, CY-5311 Paralimni (zip code: 5311 PARALIMNI) Famagusta Republic of Cyprus  
Telephone: +357-2402 2475  
Fax: +357-23102332

### 1.3 Description of EUT

|                          |  |
|--------------------------|--|
| Manufacturer:            | Telergy Hong Kong Limited  |
| Address:                 | Room 3A03, Tower B2, Digital Technology Park, Gao Xin Nan 7 Rd, Nanshan District, Shenzhen, China 518057 |
| Telephone:               | +86-755-33225727   |
| Fax:                     | +86-755-33225726   |
| Factory 1:               | Pro Broadband (Shen Zhen) Inc.   |
| Address:                 | Unit 99, Tongfucun Industry Area, Shiao, Dalang, Longhua Town, Shenzhen, China                           |
| Telephone:               | +86-755-28078809   |
| Fax:                     | +86-755- 28078889  |
| Factory 2:               | PANODIC ELECTRIC (SHEN ZHEN) LIMITED   |
| Address:                 | C/D Block, Zhengchangda Ind.Park, Jian'an Road, Tangwei, FuYong, Baoan Dist., Shenzhen, China            |
| Telephone:               | +86-755-83478999   |
| Fax:                     | +86-755-83479555   |
| Product:                 | SET TOP BOX  |
| Brand Name:              | MAAXTV   |
| Model Number:            | LN4000   |
| Additional Model Number: | N/A  |

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|                                 |   |
|---------------------------------|---|
| Power Adapter                   | Model No.: S024WM1200200  |
| Type of Modulation              | Input: 100-240V~, 50/60Hz, 600mA Max; Output: 12V, 2000mA<br>IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK)  |
| Frequency range                 | IEEE 802.11b/g, 802.11n HT20: 2412-2462MHz<br>IEEE 802.11n HT40 : 2422MHz-2452MHz   |
| Channel Spacing                 | IEEE 802.11b/g/n: 5MHz  |
| Air Data Rate                   | IEEE 802.11b : 11, 5.5, 2, 1 Mbps<br>IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps<br>IEEE 802.11n HT20 : 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps<br>IEEE 802.11n HT40 : 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps |
| Frequency Selection             | By software   |
| Channel Number                  | IEEE 802.11b/g ,802.11n HT20 : 11 Channels<br>IEEE 802.11n HT40 : 7 Channels  |
| Antenna:                        | PCB Antenna with maximum gain 3.3dBi  |
| 1.4 Submitted Sample: 2 Samples |   |
| 1.5 Test Duration               | 2012-12-13 to 2012-12-21  |
| 1.6 Test Uncertainty            | Conducted Emissions Uncertainty =3.6dB<br>Radiated Emissions Uncertainty =4.7dB   |

1.7 Test Engineer

The sample tested by \_\_\_\_\_

Print Name: Terry Tang



| Test Equipments     |               |            |                       |              |            |
|---------------------|---------------|------------|-----------------------|--------------|------------|
| Instrument Type     | Manufacturer  | Model      | Serial No.            | Date of Cal. | Due Date   |
| ESPI Test Receiver  | ROHDE&SCHWARZ | ESPI 3     | 100379                | 2012-04-21   | 2013-04-20 |
| TWO Line-V-NETW     | ROHDE&SCHWARZ | EZH3-Z5    | 100294                | 2012-04-21   | 2013-04-20 |
| TWO Line-V-NETW     | ROHDE&SCHWARZ | EZH3-Z5    | 100253                | 2012-04-21   | 2013-04-20 |
| Ultra Broadband ANT | ROHDE&SCHWARZ | HL562      | 100157                | 2012-04-21   | 2013-04-20 |
| ESDV Test Receiver  | ROHDE&SCHWARZ | ESDV       | 100008                | 2012-04-21   | 2013-04-20 |
| Impuls-Begrenzer    | ROHDE&SCHWARZ | ESH3-Z2    | 100281                | 2012-04-21   | 2013-04-20 |
| System Controller   | CT            | SC100      | -                     | --           | --         |
| Printer             | EPSON         | PHOTO EX3  | CFNH234850            | --           | --         |
| Computer            | IBM           | 8434       | 1S8434KCE99BLXL<br>O* | --           | --         |
| Loop Antenna        | EMCO          | 6502       | 00042960              | 2012-04-21   | 2013-04-20 |
| ESPI Test Receiver  | ROHDE&SCHWARZ | ESI26      | 838786/013            | 2012-04-21   | 2013-04-20 |
| 3m OATS             | --            | --         | N/A                   | 2012-04-21   | 2013-04-20 |
| Horn Antenna        | SCHWARZBECK   | BBHA 9170  | BBHA9170265           | 2012-04-21   | 2013-04-20 |
| Horn Antenna        | SCHWARZBECK   | BBHA 9120D | 9120D-631             | 2012-04-21   | 2013-04-20 |
| Power meter         | Anritsu       | ML2487A    | 6K00003613            | 2012-04-21   | 2013-04-20 |
| Power sensor        | Anritsu       | MA2491A    | 32263                 | 2012-04-21   | 2013-04-20 |
| Bilog Antenna       | Schwarebeck   | VULB9163   | 9163/340              | 2012-04-21   | 2013-04-20 |
| LISN                | AFJ           | LS16C      | 10010947251           | 2012-04-21   | 2013-04-20 |
| LISN (Three Phase)  | Schwarebeck   | NSLK 8126  | 8126453               | 2012-04-21   | 2013-04-20 |
| 9*6*6 Anechoic      | --            | --         | N/A                   | 2012-04-21   | 2013-04-20 |
| EMI Test Receiver   | RS            | ESCS30     | 100139                | 2012-04-21   | 2013-04-20 |
| LISN                | AFJ           | LS16C      | 10010947251           | 2012-04-21   | 2013-04-20 |
| LISN (Three Phase)  | Schwarebeck   | NSLK 8126  | 8126453               | 2012-04-21   | 2013-04-20 |

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2.1 Auxiliary Equipment

| Name    | Model No. | Serial No. | Manufacturer | Cable                     | FCC ID/DOC |
|---------|-----------|------------|--------------|---------------------------|------------|
| Monitor | P2450     | --         | SAMSUNG      | Data cable of 1.5m length | FCC DOC    |
| U-disk  | U208      | --         | Netac        | --                        | FCC DOC    |
| Monitor | --        | --         | LG           | Data cable of 1.5m length | FCC DOC    |

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### 3. DESCRIPTION OF TEST MODES

#### IEEE 802.11b, 802.11g mode and 802.11n HT20

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low     | 2412            |
| Mid     | 2437            |
| High    | 2462            |

IEEE 802.11b mode: 11Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 54Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n HT20 mode: 65Mbps data rate (worst case) was chosen for full testing.

#### IEEE 802.11n HT40

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low     | 2422            |
| Mid     | 2437            |
| High    | 2452            |

IEEE 802.11n HT40 mode: 65Mbps data rate (worst case) was chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.

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### 3.0 Technical Details

#### 3.1 Summary of test results

| <b>The EUT has been tested according to the following specifications:</b> |   |               |                 |
|---|---|---------------|-----------------|
| <b>Standard</b>   | <b>Test Type</b>  | <b>Result</b> | <b>Notes</b>    |
| <b>FCC Part 15, Paragraph 15.107 &amp; 15.207</b>                         | <b>Conducted Emission Test</b>  | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>                 | <b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth&gt;500kHz</b>  | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15, Paragraph 15.247(b)</b>                                   | <b>Maximum peak output power Limit: max. 30dBm</b>  | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15, Paragraph 15.109,15.205 &amp; 15.209</b>                  | <b>Transmitter Radiated Emission Limit: Table 15.209</b>  | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15, Paragraph 15.247(e)</b>                                   | <b>Power Spectral Density Limit: max. 8dBm</b>  | <b>PASS</b>   | <b>Complies</b> |
| <b>FCC Part 15, Paragraph 15.247(d)</b>                                   | <b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b> | <b>PASS</b>   | <b>Complies</b> |

#### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co., Ltd**

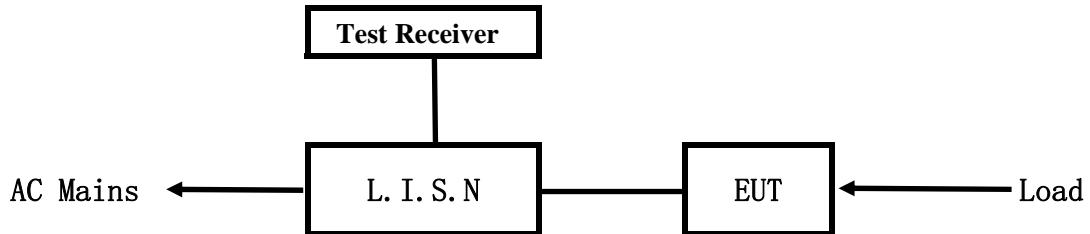
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test



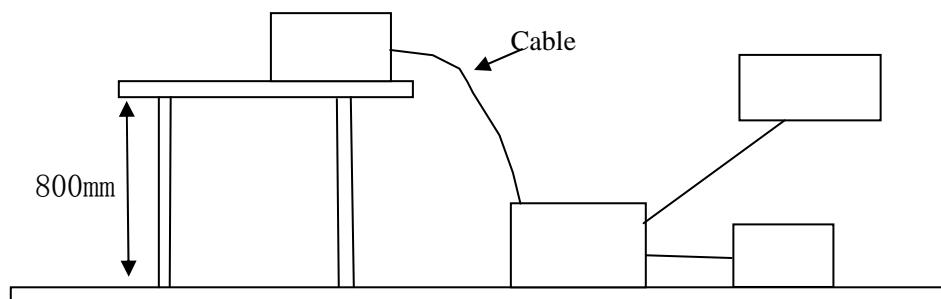
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

| Device      | Manufacturer              | Model  | FCC ID    |
|-------------|---------------------------|--------|-----------|
| SET TOP BOX | Telergy Hong Kong Limited | LN4000 | R67LN4000 |

#### B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A    |              |       |            |

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### C. Peripherals

| Device | Manufacturer | Model | FCC ID/DOC | Cable |
|--------|--------------|-------|------------|-------|
| N/A    |              |       |            |       |

#### 5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

| Frequency<br>(MHz) | Class A Limits (dB $\mu$ V) |               | Class B Limits (dB $\mu$ V) |               |
|--------------------|-----------------------------|---------------|-----------------------------|---------------|
|                    | Quasi-peak Level            | Average Level | Quasi-peak Level            | Average Level |
| 0.15 ~ 0.50        | 79.0                        | 66.0          | 66.0~56.0*                  | 56.0~46.0*    |
| 0.50 ~ 5.00        | 73.0                        | 60.0          | 56.0                        | 46.0          |
| 5.00 ~ 30.00       | 73.0                        | 60.0          | 60.0                        | 50.0          |

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 75% RH      Atmospheric Pressure: 101 KPa

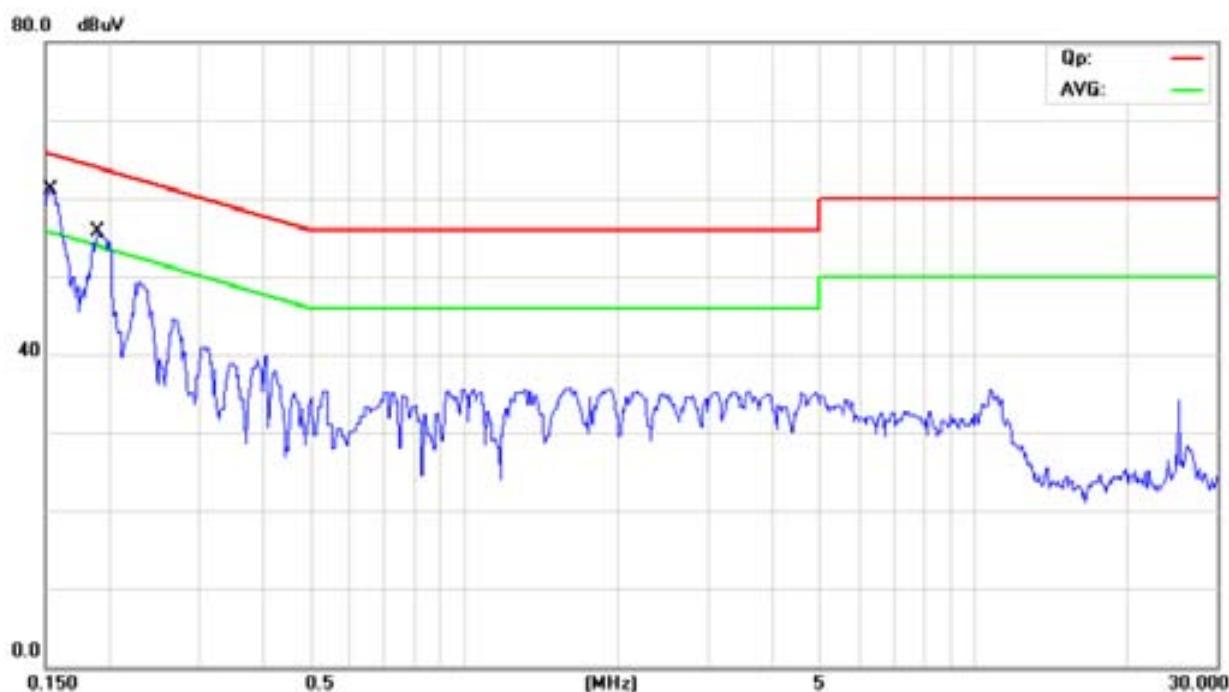
**Power Adapter Model No.: S024WM1200200**

**EUT set Condition: Keep Transmitting**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



| Frequency<br>(MHz) | Line | Reading(dBμV) |         | Limit(dBμV) |         |
|--------------------|------|---------------|---------|-------------|---------|
|                    |      | Quasi-peak    | Average | Quasi-peak  | Average |
| 0.153              | Live | 59.10         | 39.80   | 65.84       | 55.84   |
| 0.191              | Live | 53.64         | 37.74   | 63.99       | 53.99   |

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## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

### EUT Operating Environment

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

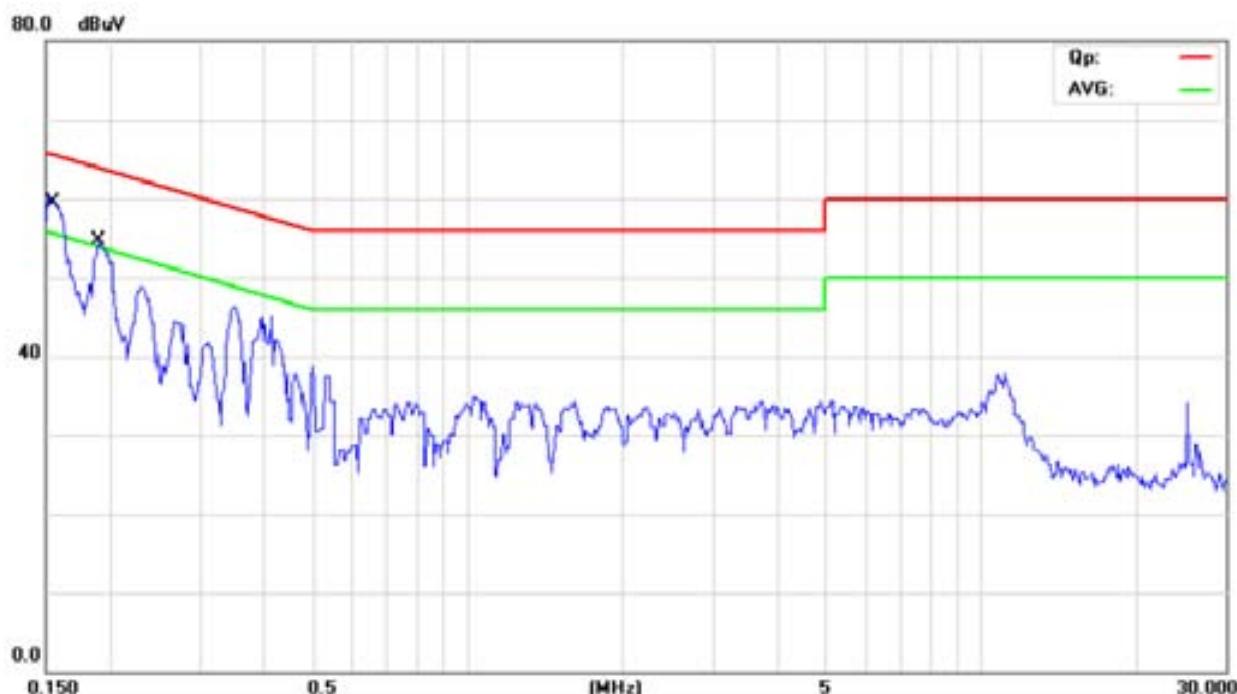
**Power Adapter Model No.: Keep Transmitting**

**EUT set Condition: Charging Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



| Frequency<br>(MHz) | Line    | Reading(dBμV) |         | Limit(dBμV) |         |
|--------------------|---------|---------------|---------|-------------|---------|
|                    |         | Quasi-peak    | Average | Quasi-peak  | Average |
| 0.158              | Neutral | 56.51         | 38.81   | 65.54       | 55.54   |
| 0.192              | Neutral | 52.74         | 37.24   | 63.95       | 53.95   |

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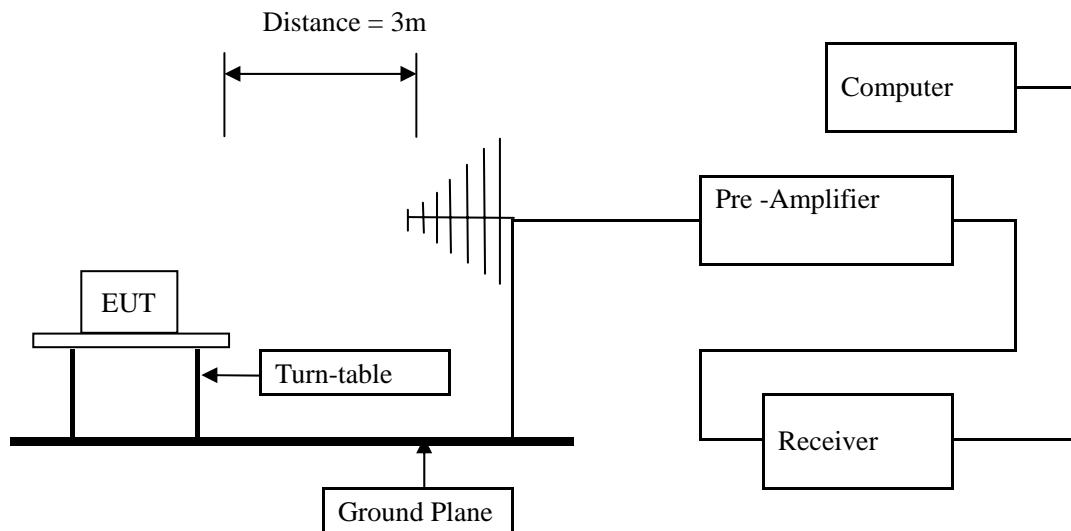
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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109**

| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m) |
|-----------------------|--------------|-------------------------------|
| 30-88                 | 3            | 40.0                          |
| 88-216                | 3            | 43.5                          |
| 216-960               | 3            | 46.0                          |
| Above 960             | 3            | 54.0                          |

Note:

1. RF Voltage (dB $\mu$ V) = 20 log RF Voltage (uV)
2. In the Above Table, the higher limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. Worse case was recorded

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

**Power Adapter Model No.: S024WM1200200**

EUT set Condition: Keep Transmitting

**Results:** **Pass**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 44.600          | 28.21                   | H                | 40.00                   |
| 142.520         | 32.82                   | H                | 43.50                   |
| 445.040         | 32.70                   | H                | 46.00                   |
| 370.920         | 38.41                   | H                | 46.00                   |
|                 |                         |                  |                         |
| 46.800          | 35.12                   | V                | 40.00                   |
| 168.400         | 30.03                   | V                | 43.50                   |
| 963.480         | 38.02                   | V                | 54.00                   |
| 370.880         | 33.56                   | V                | 46.00                   |

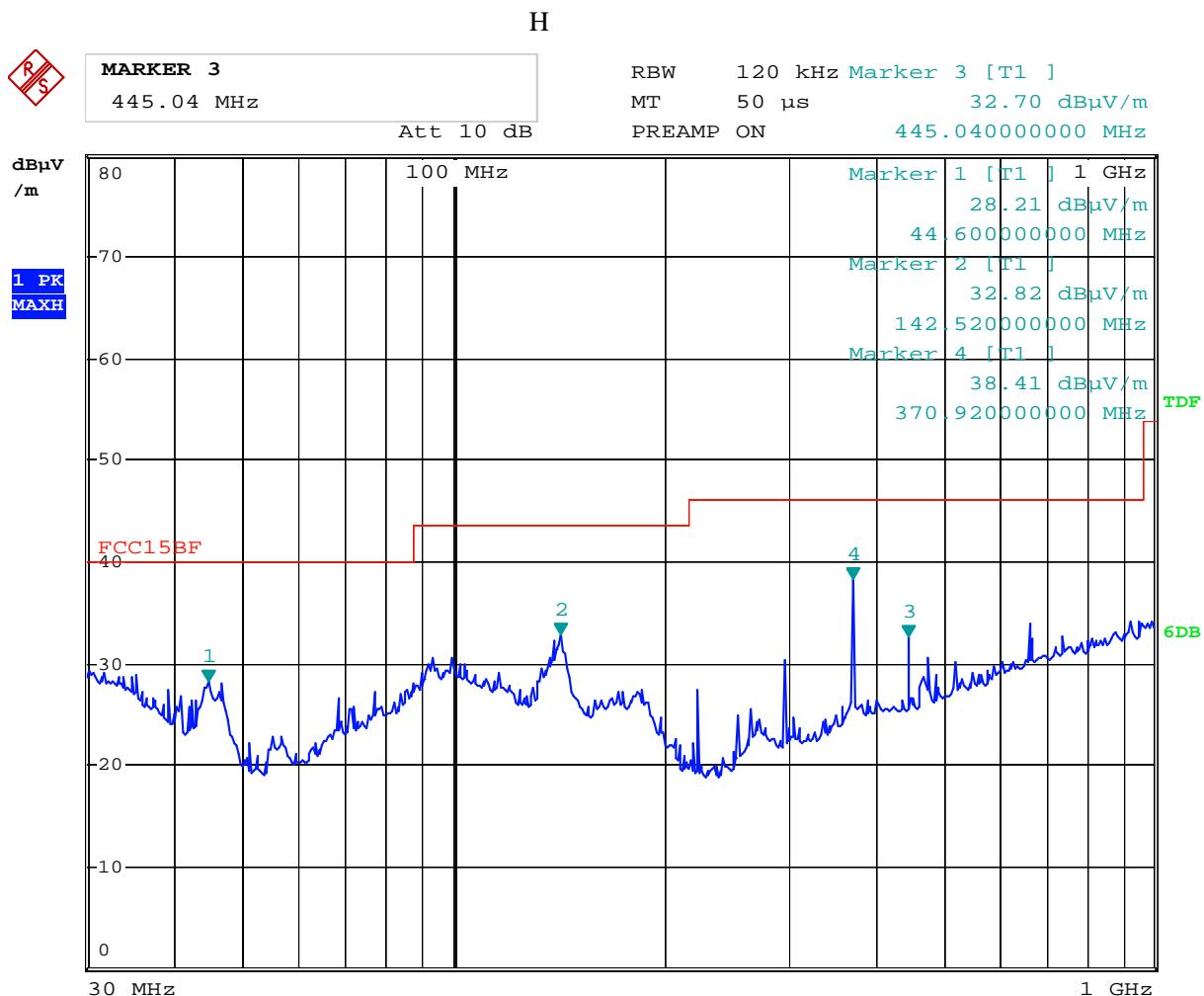
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### Test Figure:



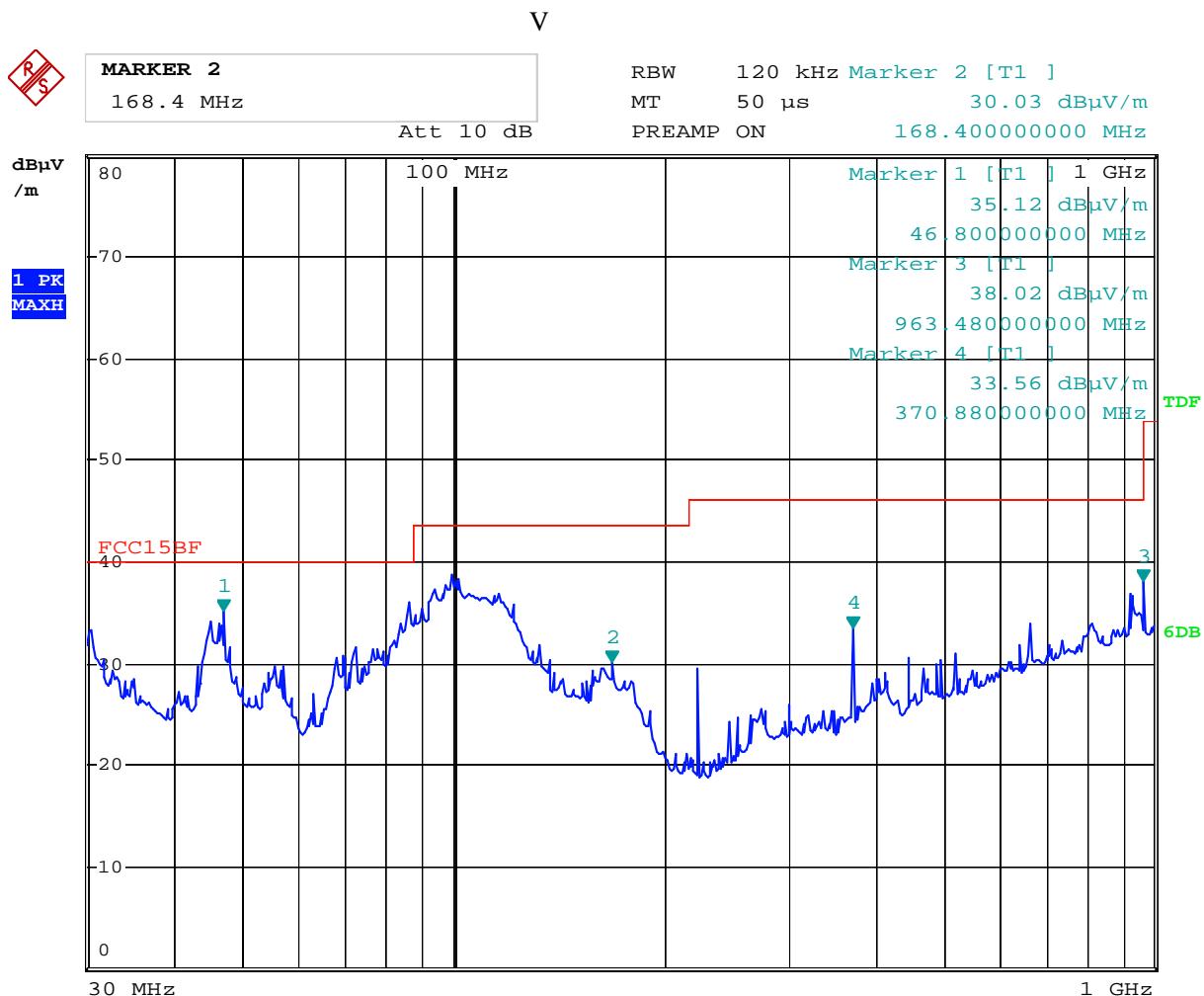
Date: 19.DEC.2012 14:59:25

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Test Figure:



Date: 19.DEC.2012 14:55:36

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**Operation Mode: Transmitting & Receiving under CH01 for 11b at 11Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2412.00         | 92.76 (PK)              | H                | Fundamental Frequency   |
| 2412.00         | 92.76 (PK)              | V                |                         |
| 4824.00         | 47.32 (PK)              | H                | --                      |
| 4824.00         | -- (PK)                 | V                |                         |
| 7236.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9648.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12060           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14472           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 16884           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19296           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21708           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24120           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11b mode at 11Mbps

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**Operation Mode: Transmitting & Receiving under CH06 for 11b at 11Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2437.00         | 91.63 (PK)              | H                | Fundamental Frequency   |
| 2437.00         | 95.15 (PK)              | V                |                         |
| 4874.00         | 41.01 (PK)              | H                | --                      |
| 4874.00         | 47.00 (PK)              | V                |                         |
| 7311.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9748.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12185           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14622           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17059           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19496           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21933           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24370           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11b mode at 11Mbps

**Operation Mode: Transmitting & Receiving under CH11 for 11b at 11Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2462.00         | 92.74 (PK)              | H                | Fundamental Frequency   |
| 2462.00         | 93.15 (PK)              | V                |                         |
| 4924            | 45.29 (PK)              | H                | --                      |
| 4924            | -- (PK)                 | V                |                         |
| 7386            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9848            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12310           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14772           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17234           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19696           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 22158           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24620           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11b mode at 11Mbps

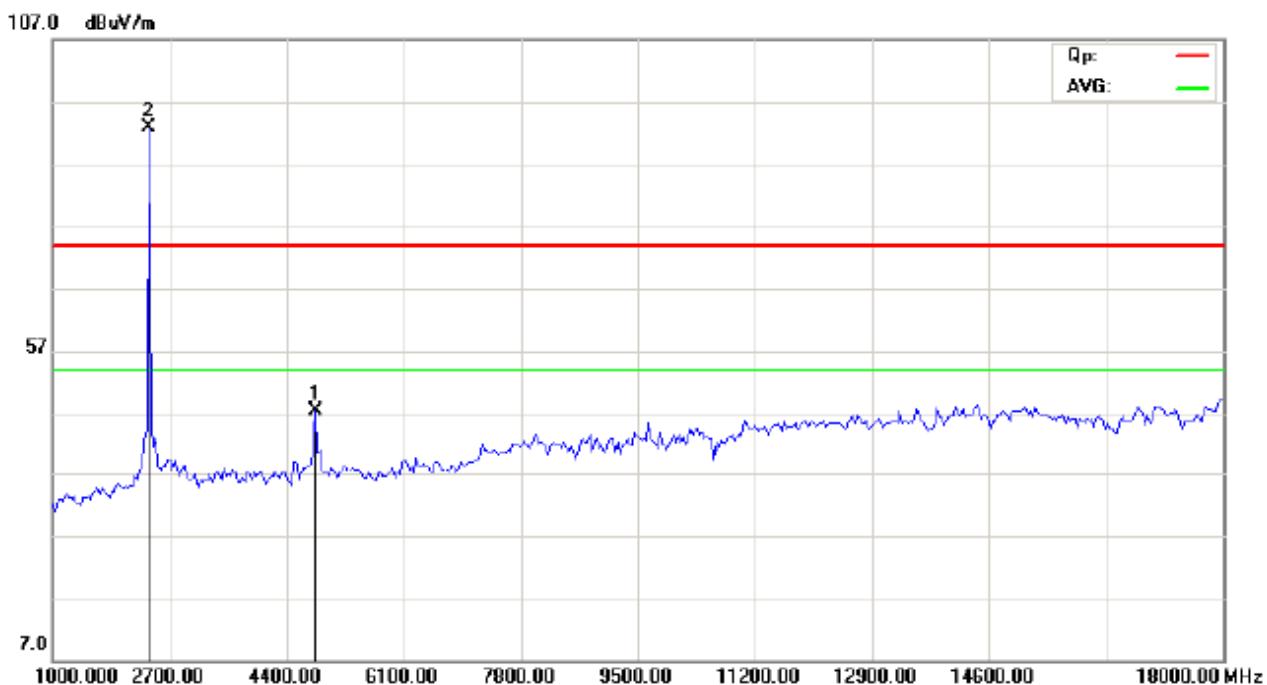
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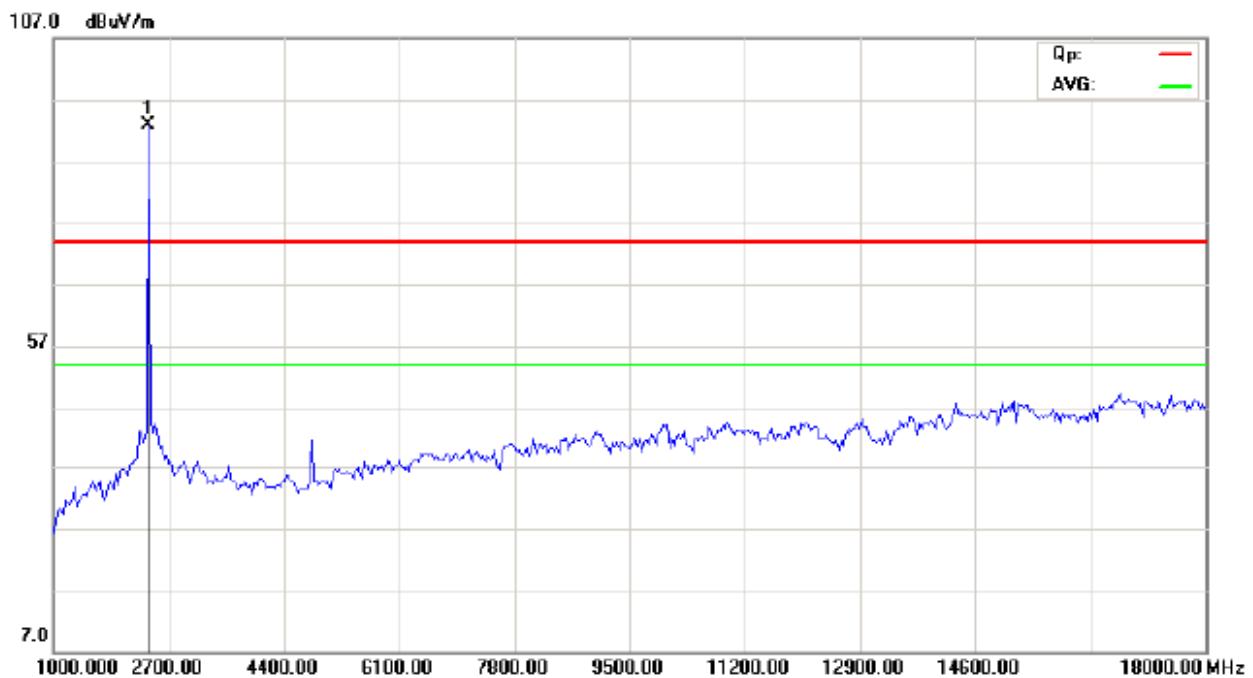
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Please refer to the following test plots for details:

**CH01 at 11Mbps: Horizontal**



**CH01 at 11Mbps: Vertical**

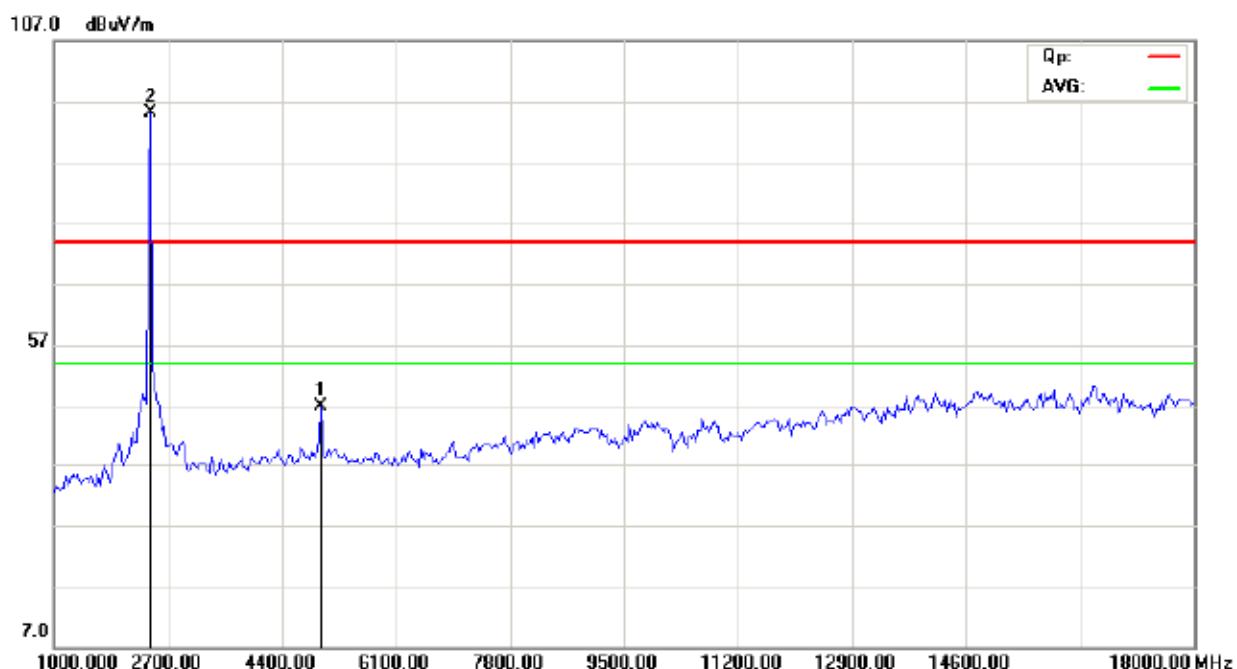


The report refers only to the sample tested and does not apply to the bulk.

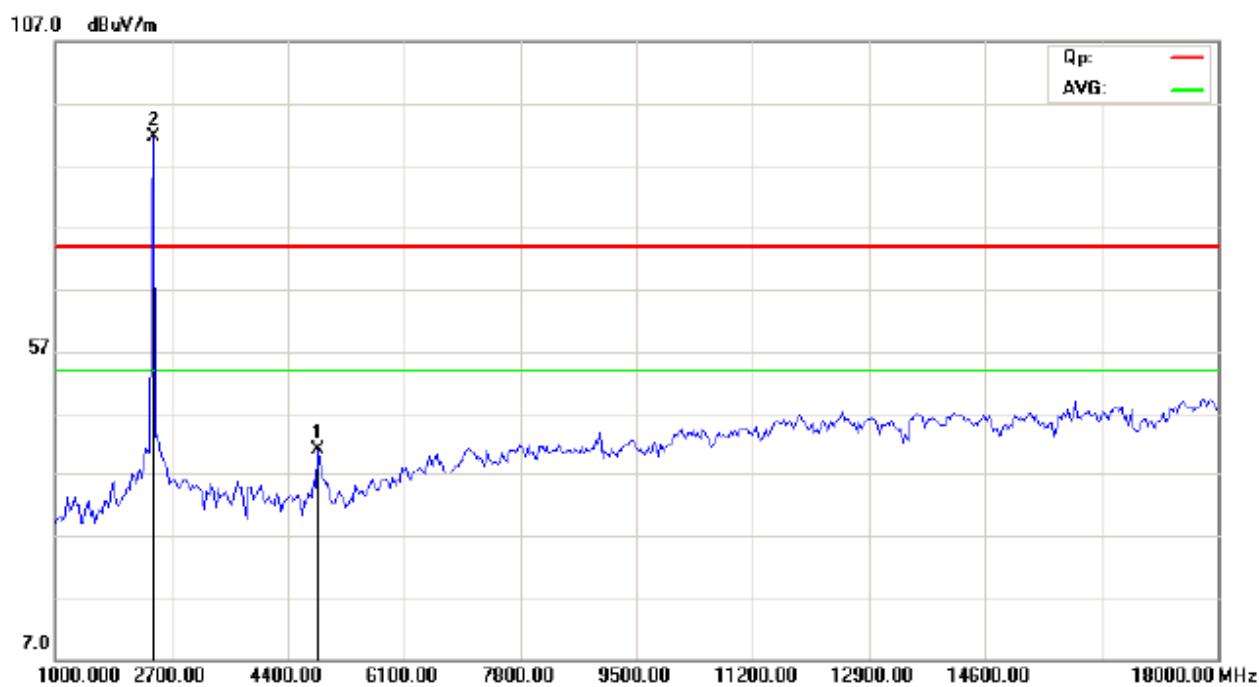
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### CH06 at 11Mbps: Vertical



### CH06 at 11Mbps: Horizontal

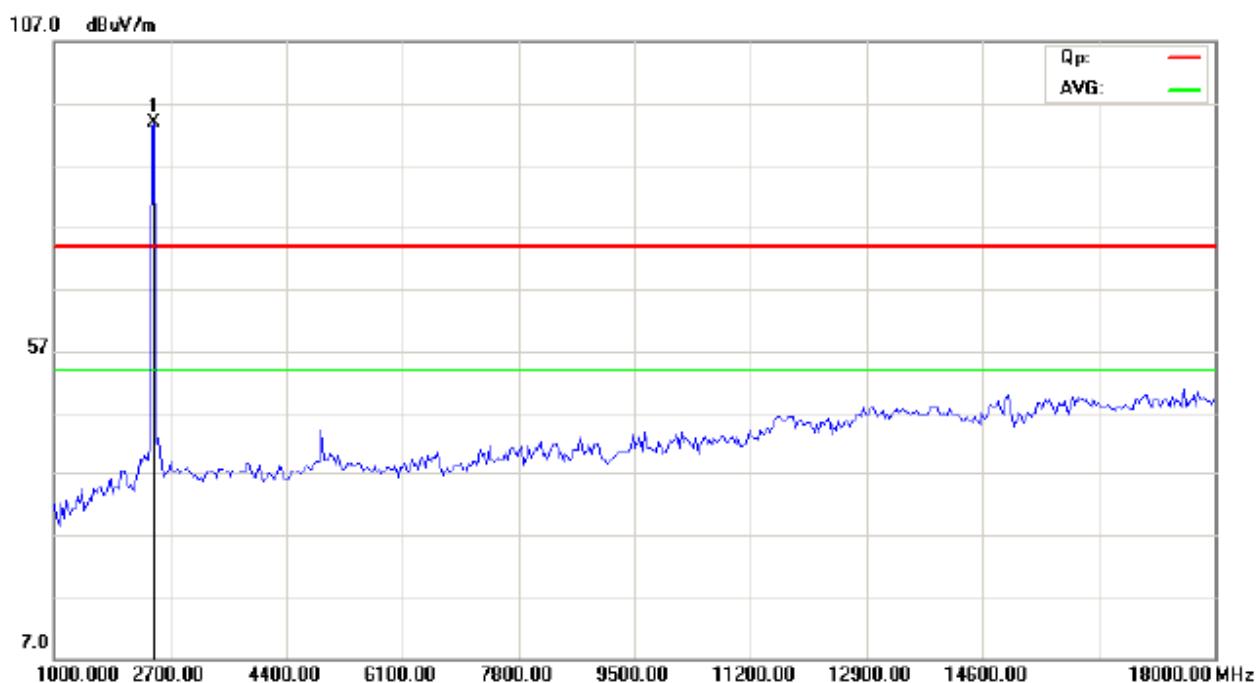


The report refers only to the sample tested and does not apply to the bulk.

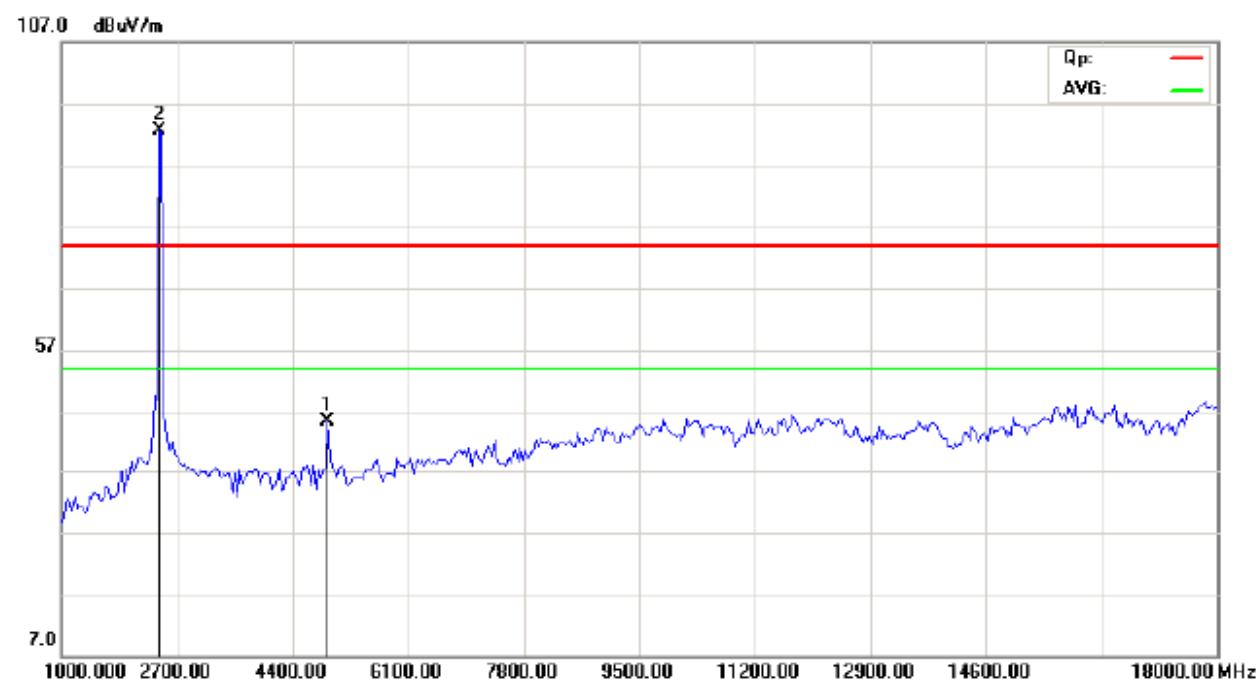
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### CH11 at 11Mbps: Vertical



### CH11 at 11Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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**Operation Mode: Transmitting & Receiving under CH01 for 11g at 54 Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2412.00         | 92.89 (PK)              | H                | Fundamental Frequency   |
| 2412.00         | 93.19 (PK)              | V                |                         |
| 4824.00         | 46.28 (PK)              | H                | --                      |
| 4824.00         | 44.89 (PK)              | V                |                         |
| 7236.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9648.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12060           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14472           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 16684           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19296           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21708           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24120           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11g mode 54Mbps

**Operation Mode: Transmitting & Receiving under CH06 for 11g at 54 Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2437.00         | 91.47 (PK)              | H                | Fundamental Frequency   |
| 2437.00         | 93.44 (PK)              | V                |                         |
| 4874.00         | 44.97 (PK)              | H                | --                      |
| 4874.00         | -- (PK)                 | V                |                         |
| 7311.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9748.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12185           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14622           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17059           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19496           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21933           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24370           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11g mode 54Mbps

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**Operation Mode: Transmitting & Receiving under CH11 for 11g at 54 Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2462.00         | 92.43 (PK)              | H                | Fundamental Frequency   |
| 2462.00         | 92.36 (PK)              | V                |                         |
| 4924            | 46.58 (PK)              | H                | --                      |
| 4924            | 45.64 (PK)              | V                |                         |
| 7386            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9848            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12310           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14772           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17234           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19696           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 22158           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24620           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11g mode 54Mbps

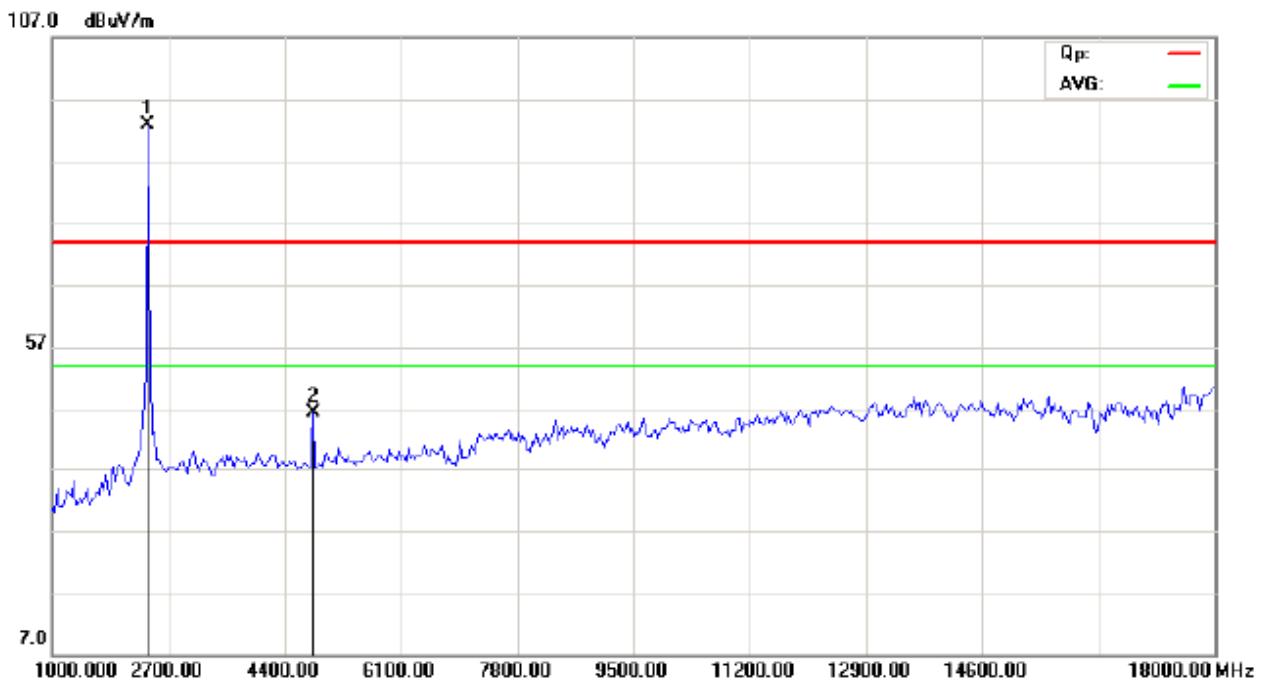
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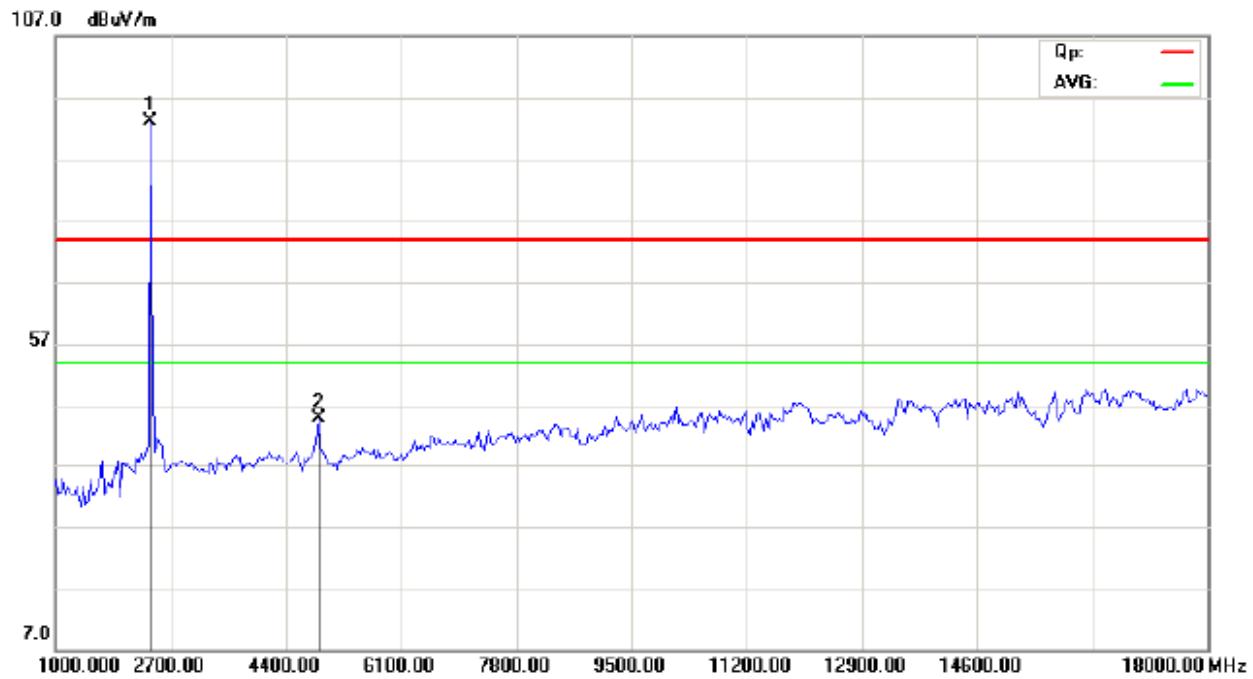
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Please refer to the following test plots for details:

**CH01 at 54Mbps: Horizontal**



**CH01 at 54Mbps: Vertical**

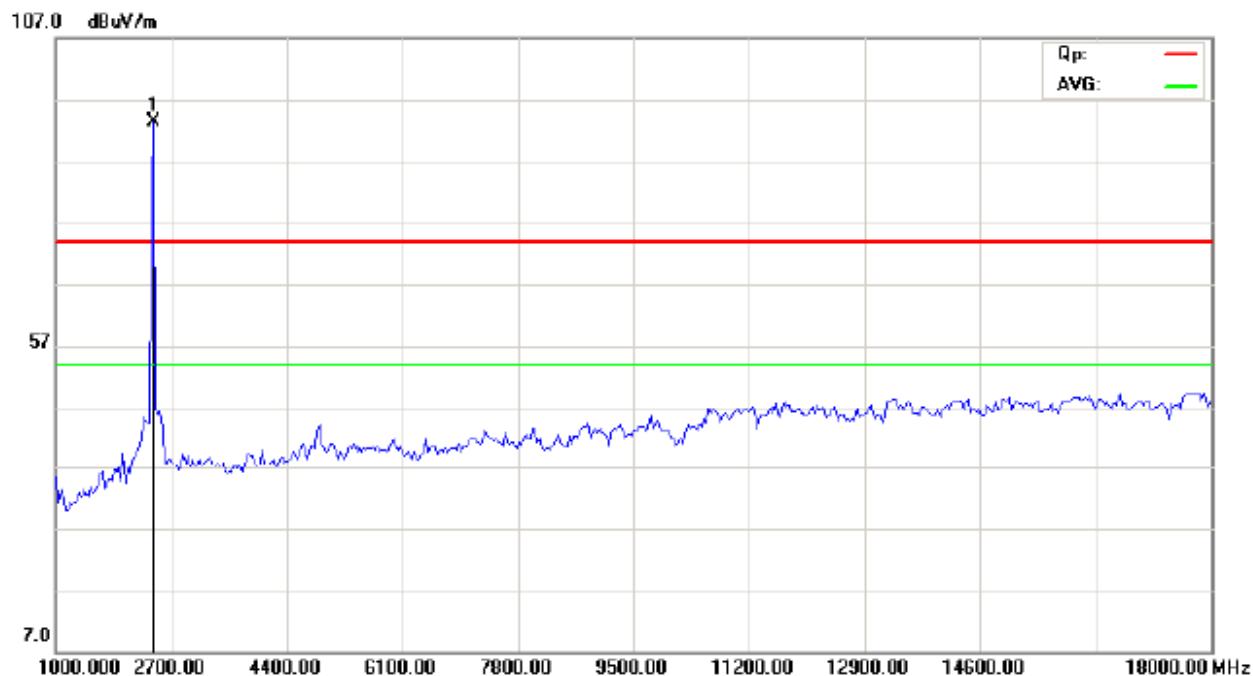


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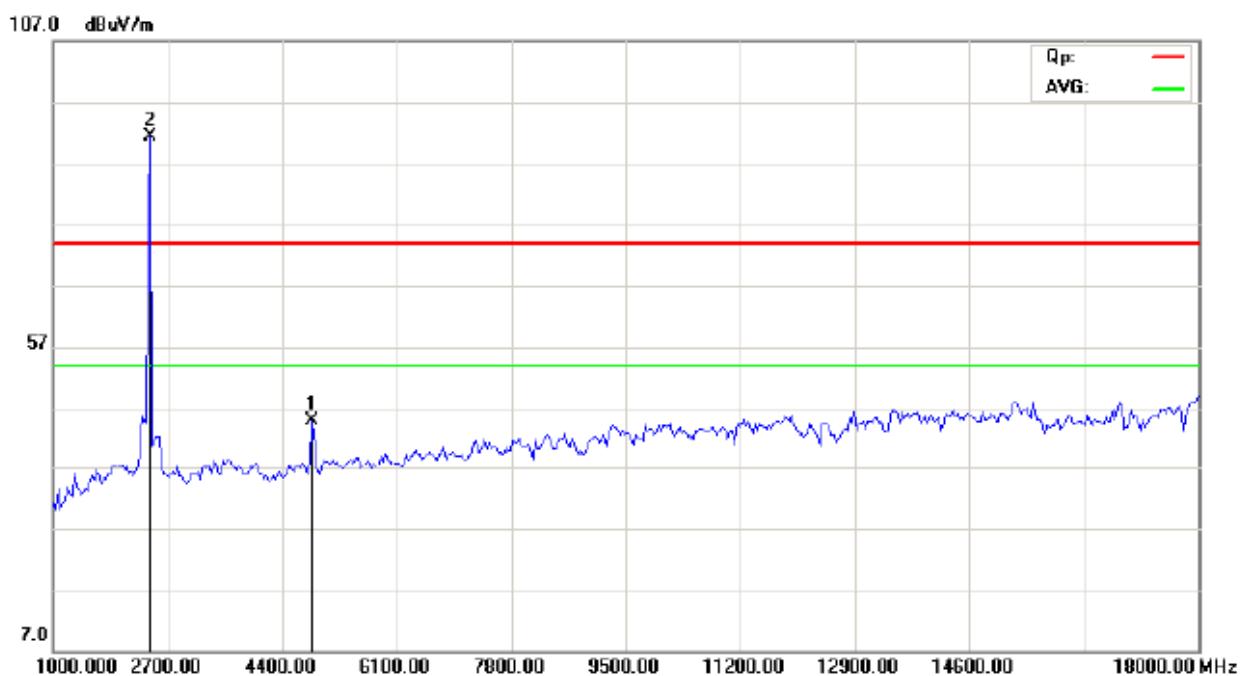
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**CH06 at 54Mbps: Vertical**



**CH06 at 54Mbps: Horizontal**

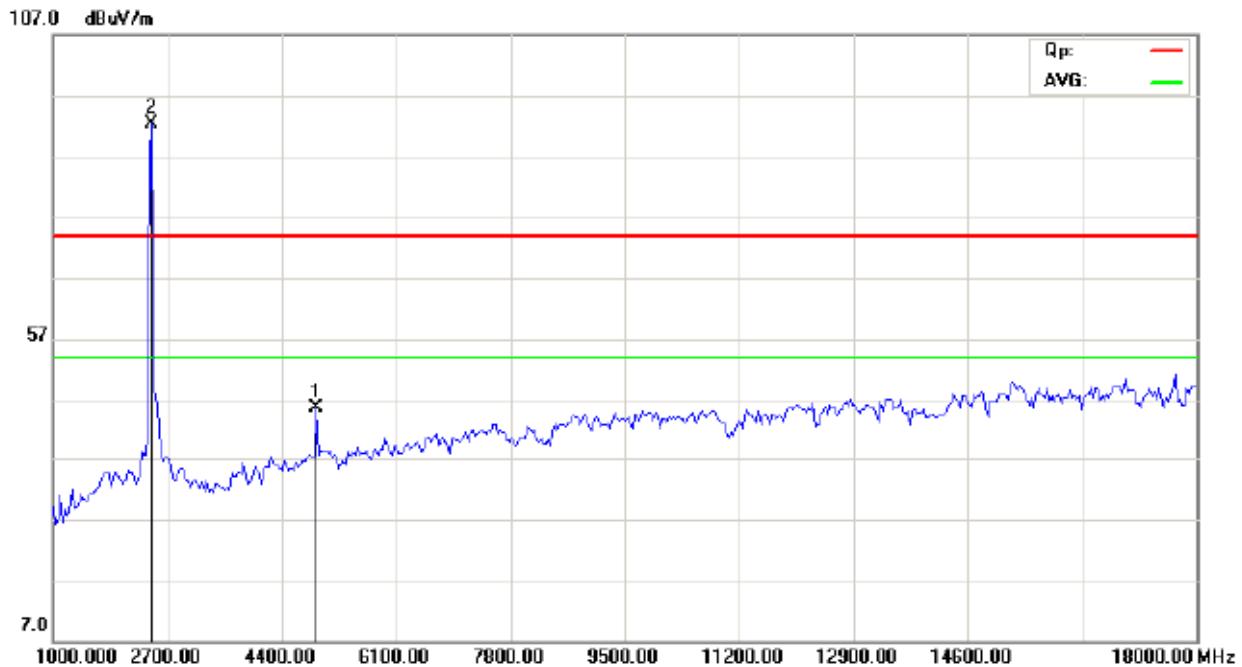


The report refers only to the sample tested and does not apply to the bulk.

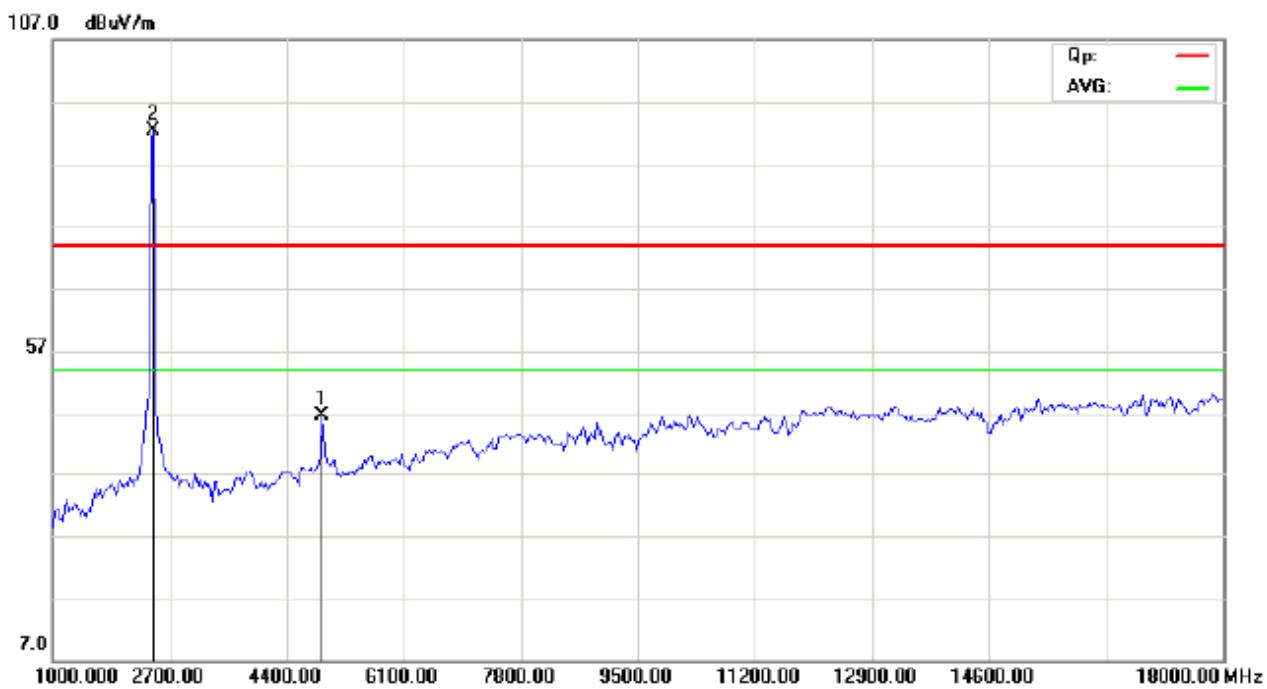
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### CH11 at 54Mbps: Vertical



### CH11 at 54 Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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**Operation Mode: Transmitting & Receiving under CH01 for 11n HT20 at 65Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2412.00         | 89.36 (PK)              | H                | Fundamental Frequency   |
| 2412.00         | 90.92 (PK)              | V                |                         |
| 4824.00         | -- (PK)                 | H                | 74(Peak)/ 54(AV)        |
| 4824.00         | 45.60 (PK)              | V                | 74(Peak)/ 54(AV)        |
| 7236.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9648.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12060           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14472           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 16684           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19296           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21708           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24120           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11n HT20 at 65Mbps

**Operation Mode: Transmitting & Receiving under CH06 for 11n HT20 at 65Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2437.00         | 90.55 (PK)              | H                | Fundamental Frequency   |
| 2437.00         | 92.01 (PK)              | V                |                         |
| 4874.00         | 43.54 (PK)              | H                | 74(Peak)/ 54(AV)        |
| 4874.00         | 42.38 (PK)              | V                | 74(Peak)/ 54(AV)        |
| 7311.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9748.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12185           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14622           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17059           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19496           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21933           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24370           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11n HT20 at 65Mbps

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**Operation Mode: Transmitting & Receiving under CH11 for 11n HT20 at 65Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2462.00         | 92.12 (PK)              | H                | Fundamental Frequency   |
| 2462.00         | 90.31 (PK)              | V                |                         |
| 4924            | 46.19 (PK)              | H                | 74(Peak)/ 54(AV)        |
| 4924            | -- (PK)                 | V                | 74(Peak)/ 54(AV)        |
| 7386            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9848            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12310           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14772           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17234           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19696           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 22158           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24620           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11n HT20 at 65bps

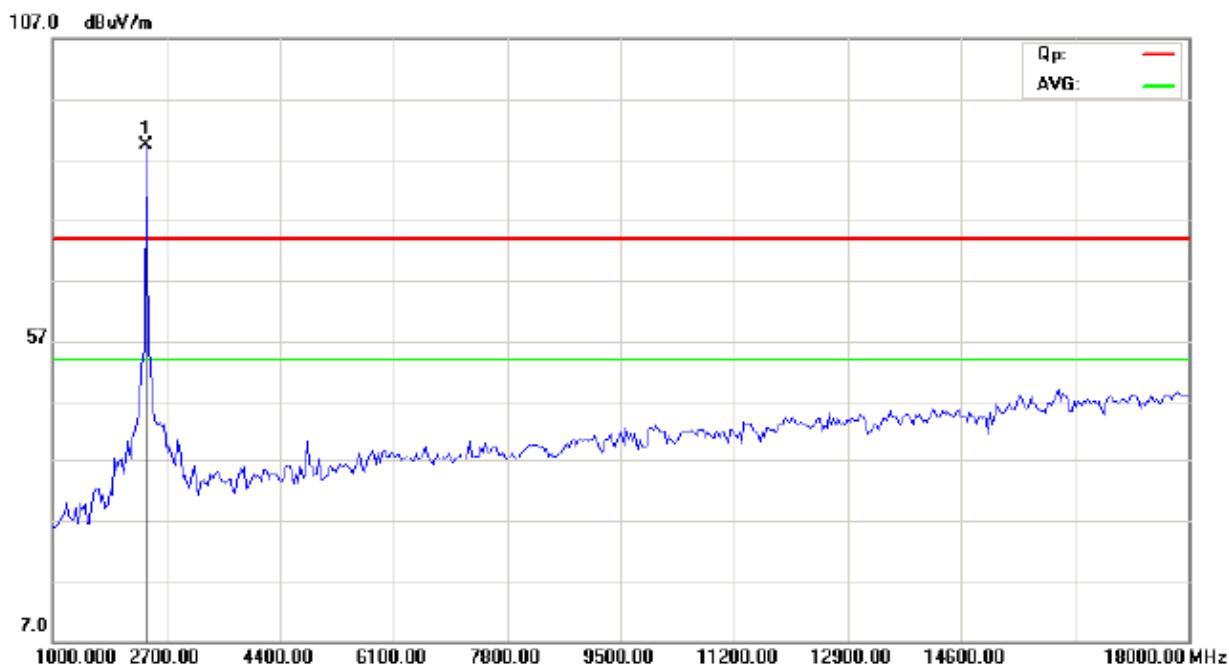
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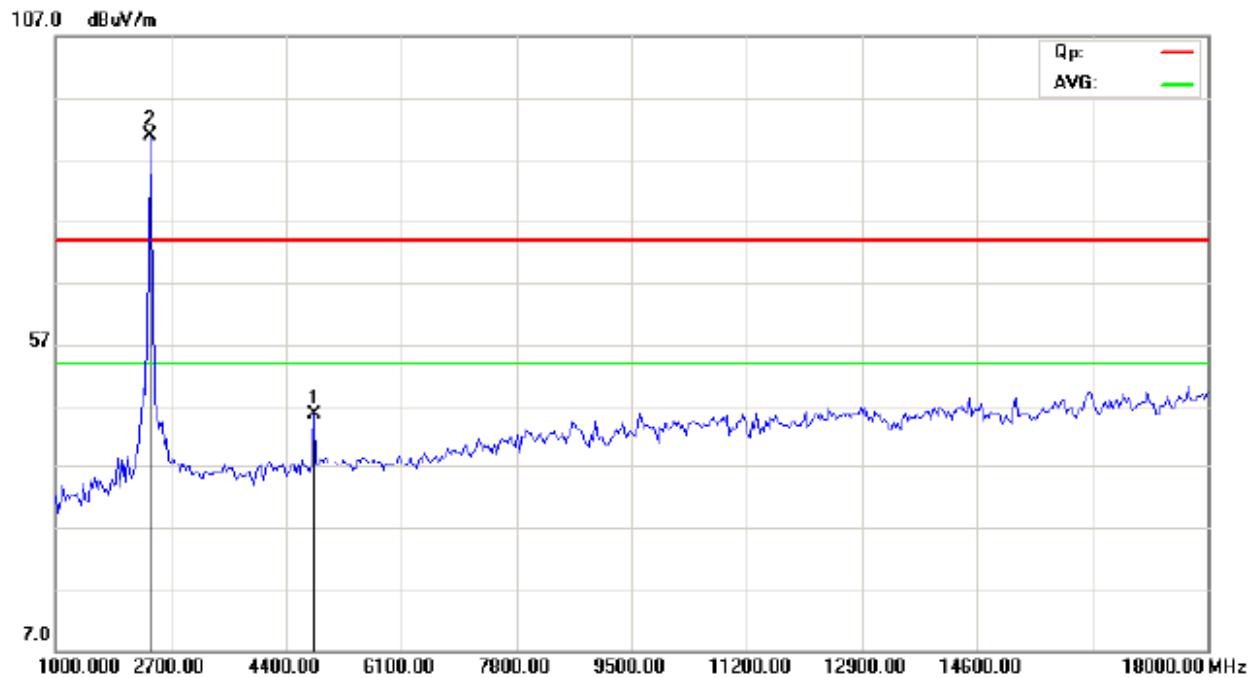
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Please refer to the following test plots for details:

**CH01 at 11n HT20: Horizontal**



**CH01 at 11n HT20: Vertical**

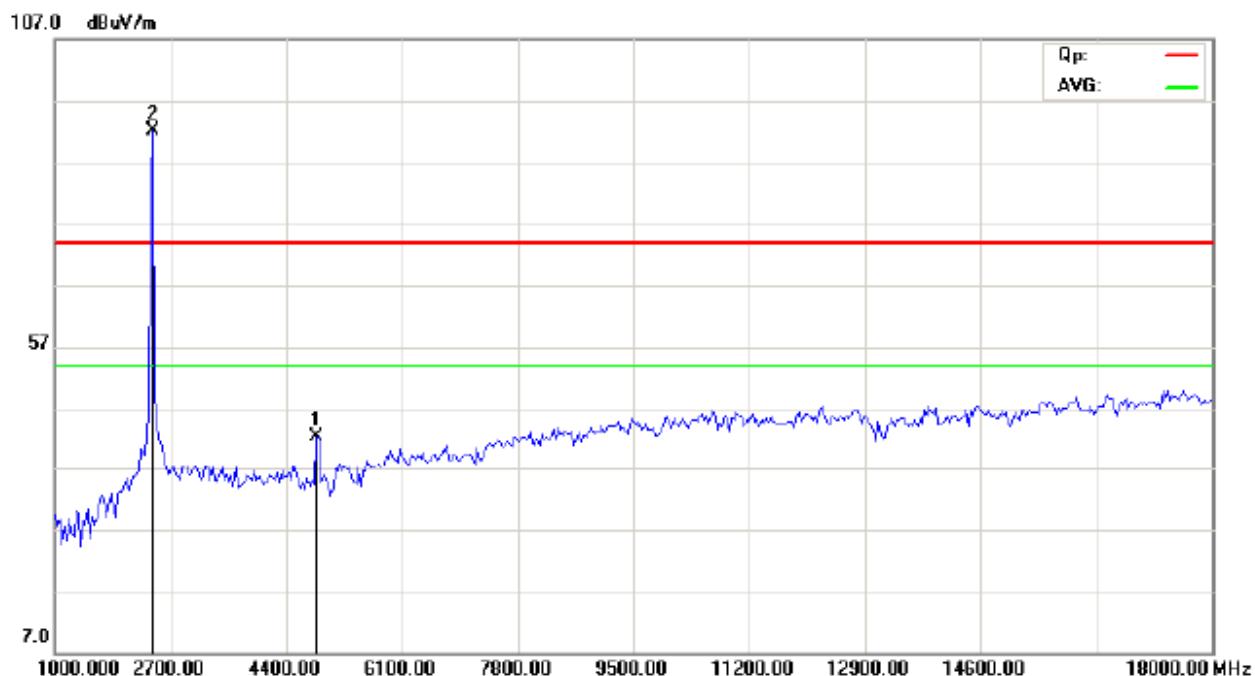


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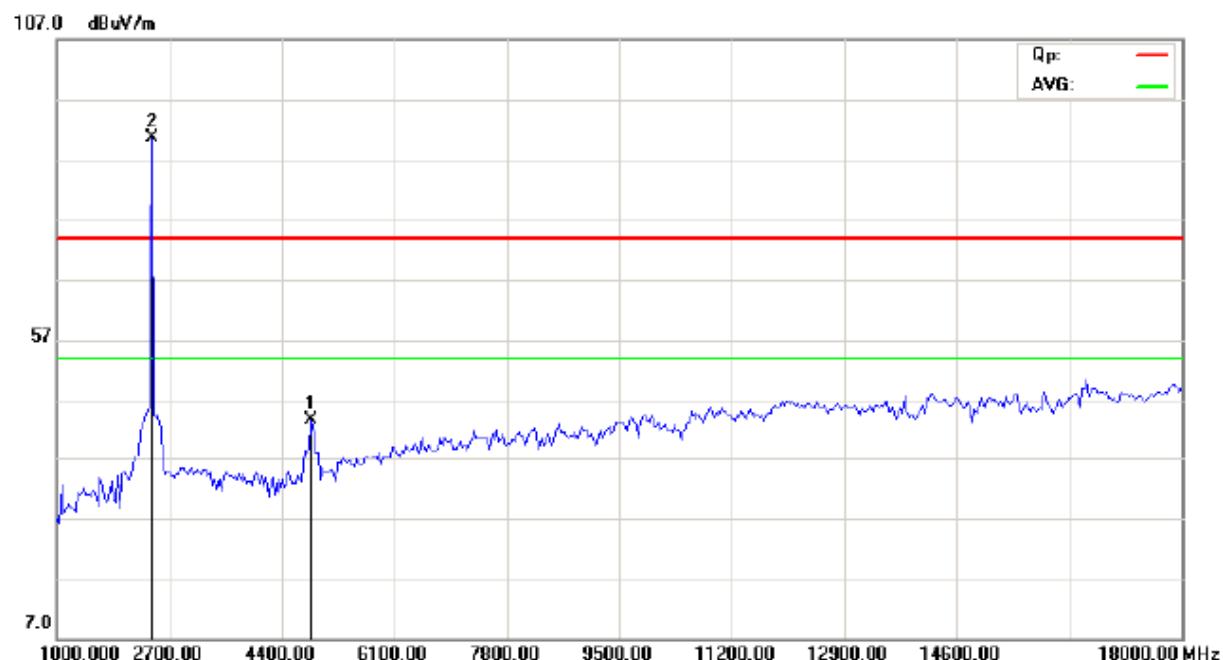
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### CH06 at 11n HT20: Vertical



### CH06 at 11n HT20: Horizontal

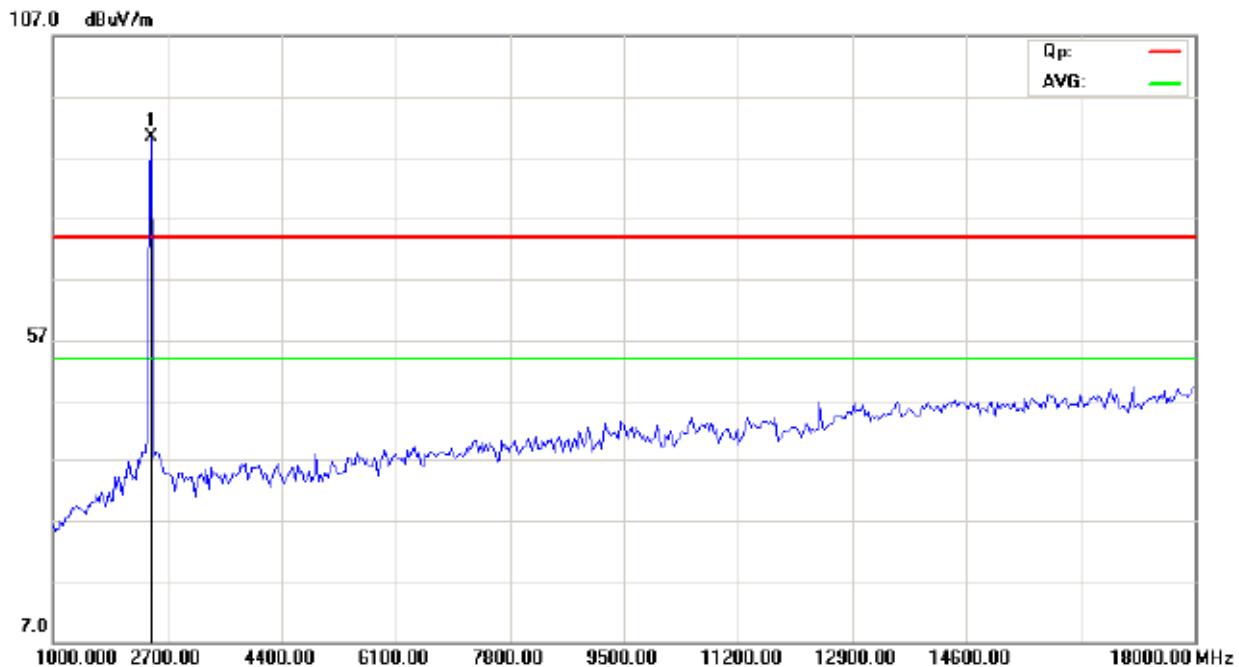


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### CH11 at 11n HT20: Vertical



### CH11 at 11n HT20: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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**Operation Mode: Transmitting & Receiving under CH01 for 11n HT40 at 65Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2422.00         | 90.01 (PK)              | H                | Fundamental Frequency   |
| 2422.00         | 88.94 (PK)              | V                |                         |
| 4844.00         | 44.01 (PK)              | H                | --                      |
| 4844.00         | 48.77 (PK)              | V                |                         |
| 7266.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9688.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12110           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14532           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 16954           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19376           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21798           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24220           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11n HT40 at 65bps

**Operation Mode: Transmitting & Receiving under CH06 for 11n HT40 at 65Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2437.00         | 89.22 (PK)              | H                | Fundamental Frequency   |
| 2437.00         | 90.65 (PK)              | V                |                         |
| 4874.00         | 44.68 (PK)              | H                | --                      |
| 4874.00         | -- (PK)                 | V                |                         |
| 7311.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9748.00         | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12185           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14622           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17059           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19496           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 21933           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24370           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11n HT40 at 65bps

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**Operation Mode: Transmitting & Receiving under CH11 for 11n HT40 at 65Mbps**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2452.00         | 90.60 (PK)              | H                | Fundamental Frequency   |
| 2452.00         | 90.56 (PK)              | V                |                         |
| 4904            | -- (PK)                 | H                | --                      |
| 4904            | 44.58 (PK)              | V                |                         |
| 7356            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 9808            | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 12260           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 14712           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 17164           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 19616           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 22068           | --                      | H/V              | 74(Peak)/ 54(AV)        |
| 24520           | --                      | H/V              | 74(Peak)/ 54(AV)        |

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark “--” means that the emissions level is too low to be measured

3. For 802.11n HT40 at 65bps

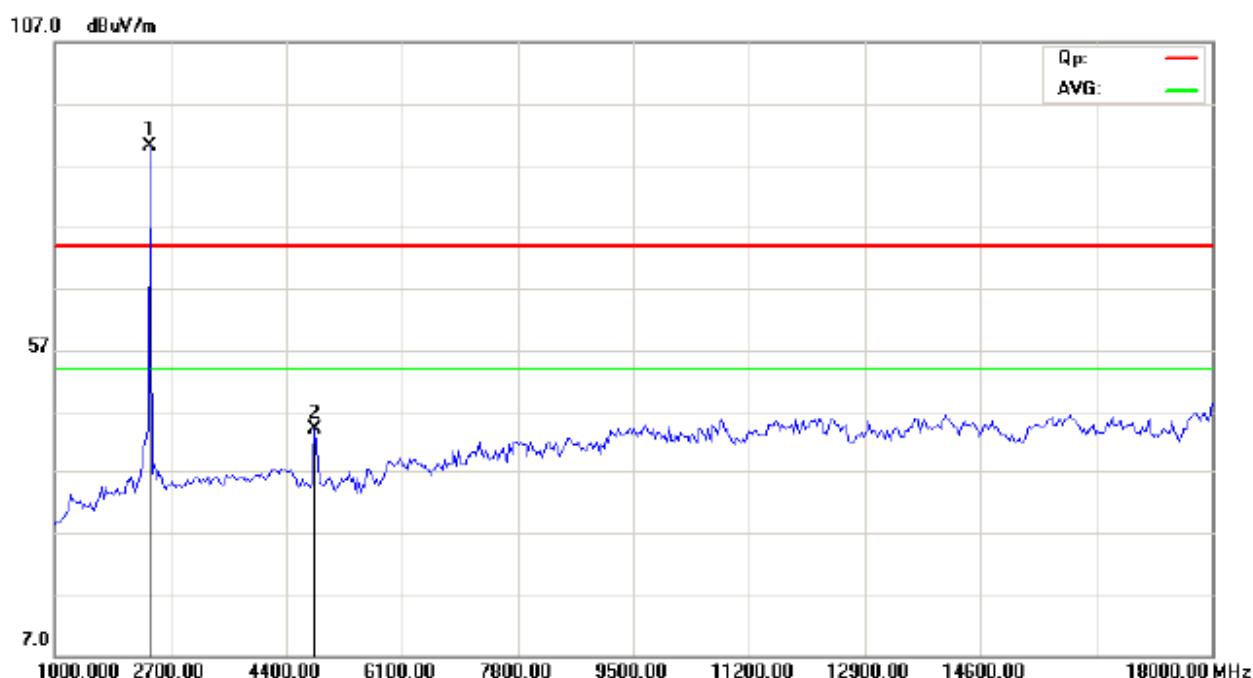
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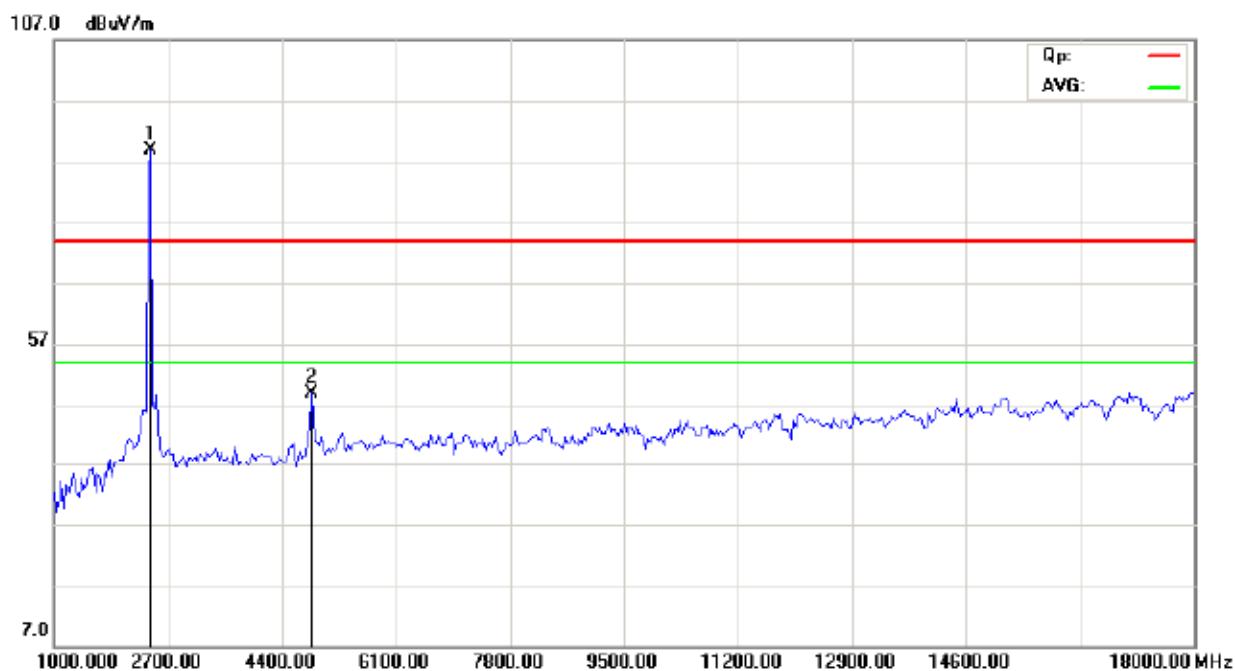
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Please refer to the following test plots for details:

**CH01 at 11n HT40: Horizontal**



**CH01 at 11n HT40: Vertical**

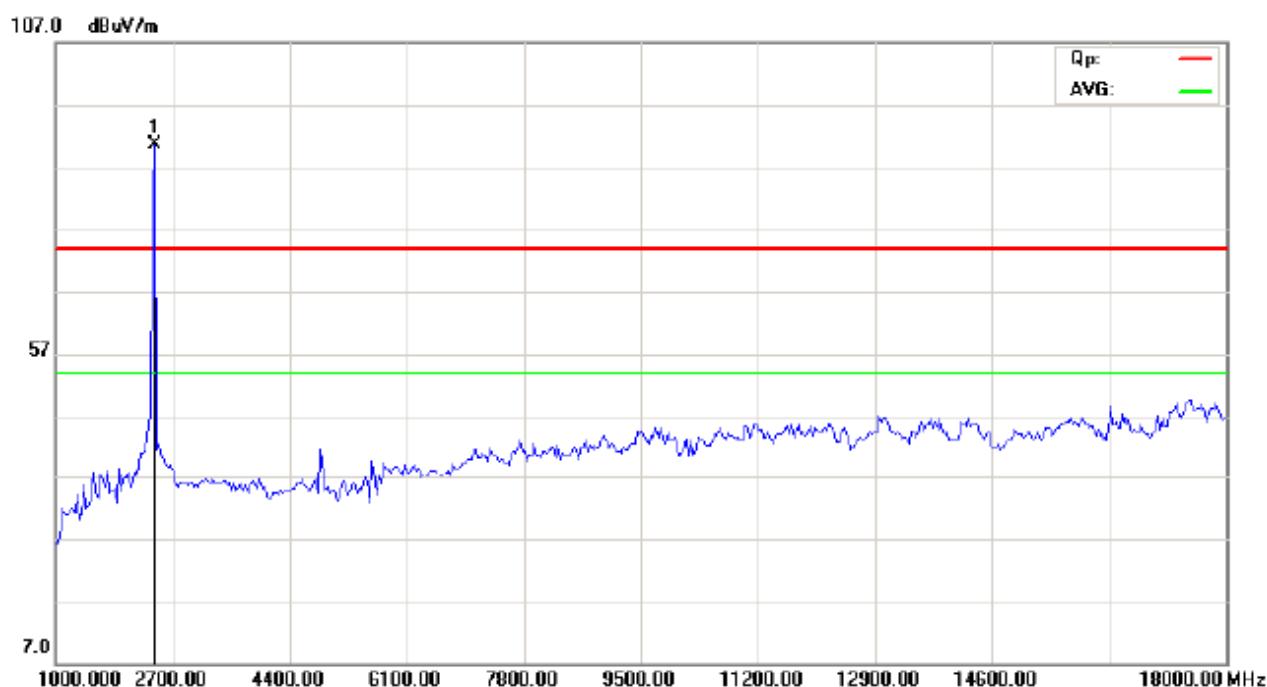


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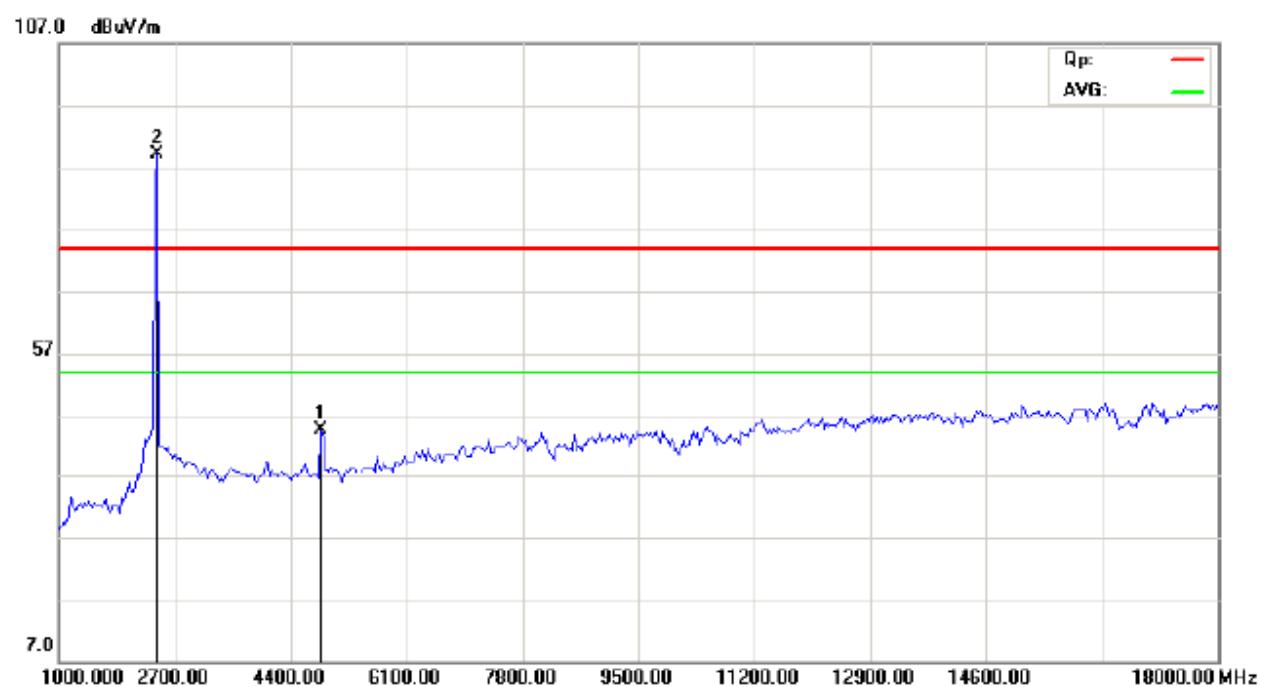
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### CH04 at 11n HT40: Vertical



### CH04 at 11n HT40: Horizontal

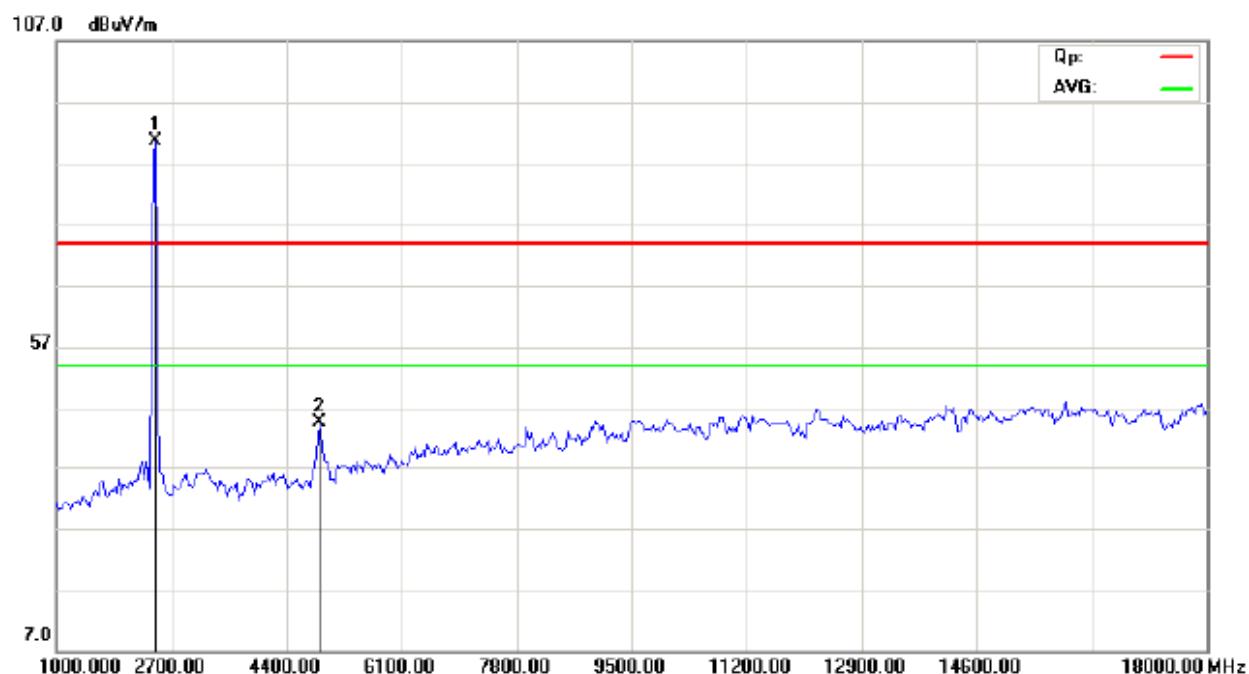


The report refers only to the sample tested and does not apply to the bulk.

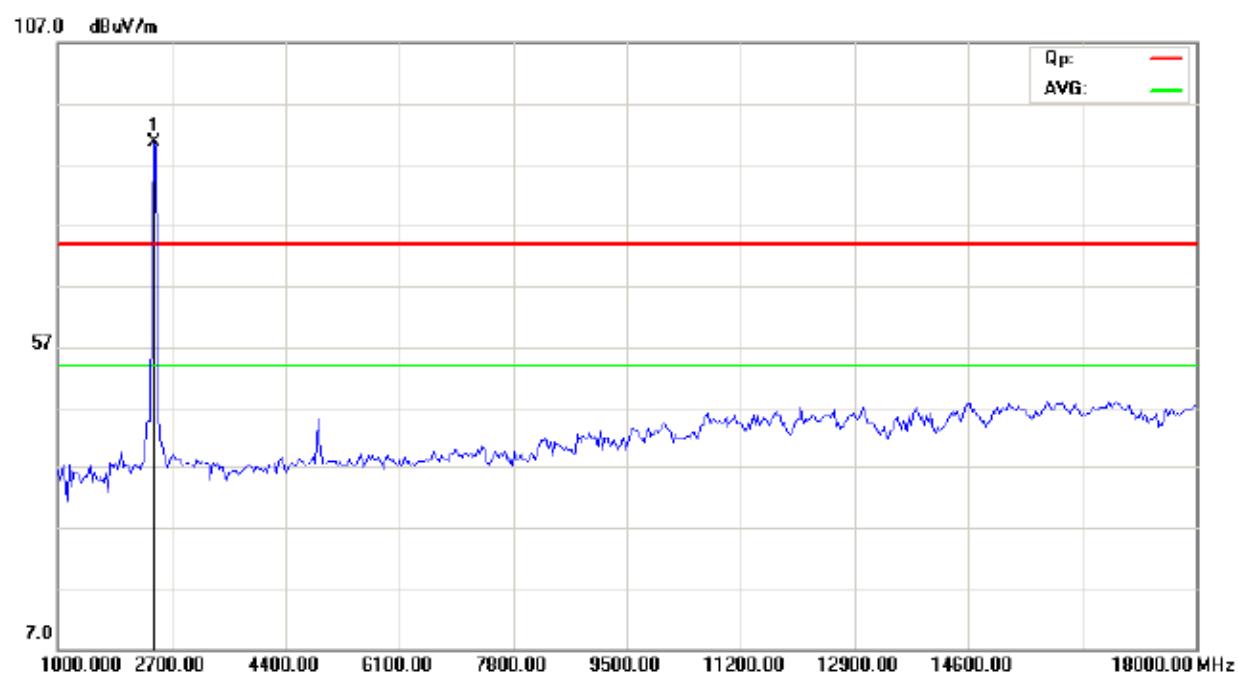
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### CH07 at 11n HT40: Vertical



### CH07 at 11n HT40: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

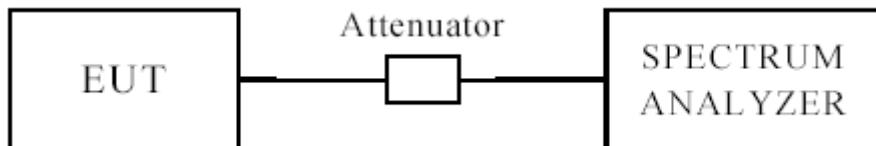
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## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500kHz

### 7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.4 Test Result

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| EUT         |                         | SET TOP BOX               |                      | Model               |            | LN4000  |
|-------------|-------------------------|---------------------------|----------------------|---------------------|------------|---------|
| Mode        |                         | 802.11b                   |                      | Input Voltage       |            | AC 120V |
| Temperature |                         | 24 deg. C.                |                      | Humid Pity          |            | 56% RH  |
| Channel     | Channel Frequency (MHz) | Data Transfer Rate (Mbps) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass/ Fail |         |
| 1           | 2412                    | 1                         | 10.02                | 0.5                 | Pass       |         |
| 6           | 2437                    | 1                         | 10.02                | 0.5                 | Pass       |         |
| 11          | 2462                    | 1                         | 10.02                | 0.5                 | Pass       |         |
| 1           | 2412                    | 11                        | 10.08                | 0.5                 | Pass       |         |
| 6           | 2437                    | 11                        | 10.08                | 0.5                 | Pass       |         |
| 11          | 2462                    | 11                        | 10.08                | 0.5                 | Pass       |         |

| EUT         |                         | SET TOP BOX               |                      | Model               |            | LN4000  |
|-------------|-------------------------|---------------------------|----------------------|---------------------|------------|---------|
| Mode        |                         | 802.11g                   |                      | Input Voltage       |            | AC 120V |
| Temperature |                         | 24 deg. C.                |                      | Humid Pity          |            | 56% RH  |
| Channel     | Channel Frequency (MHz) | Data Transfer Rate (Mbps) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass/ Fail |         |
| 1           | 2412                    | 54                        | 16.62                | 0.5                 | Pass       |         |
| 6           | 2437                    | 54                        | 16.68                | 0.5                 | Pass       |         |
| 11          | 2462                    | 54                        | 16.62                | 0.5                 | Pass       |         |

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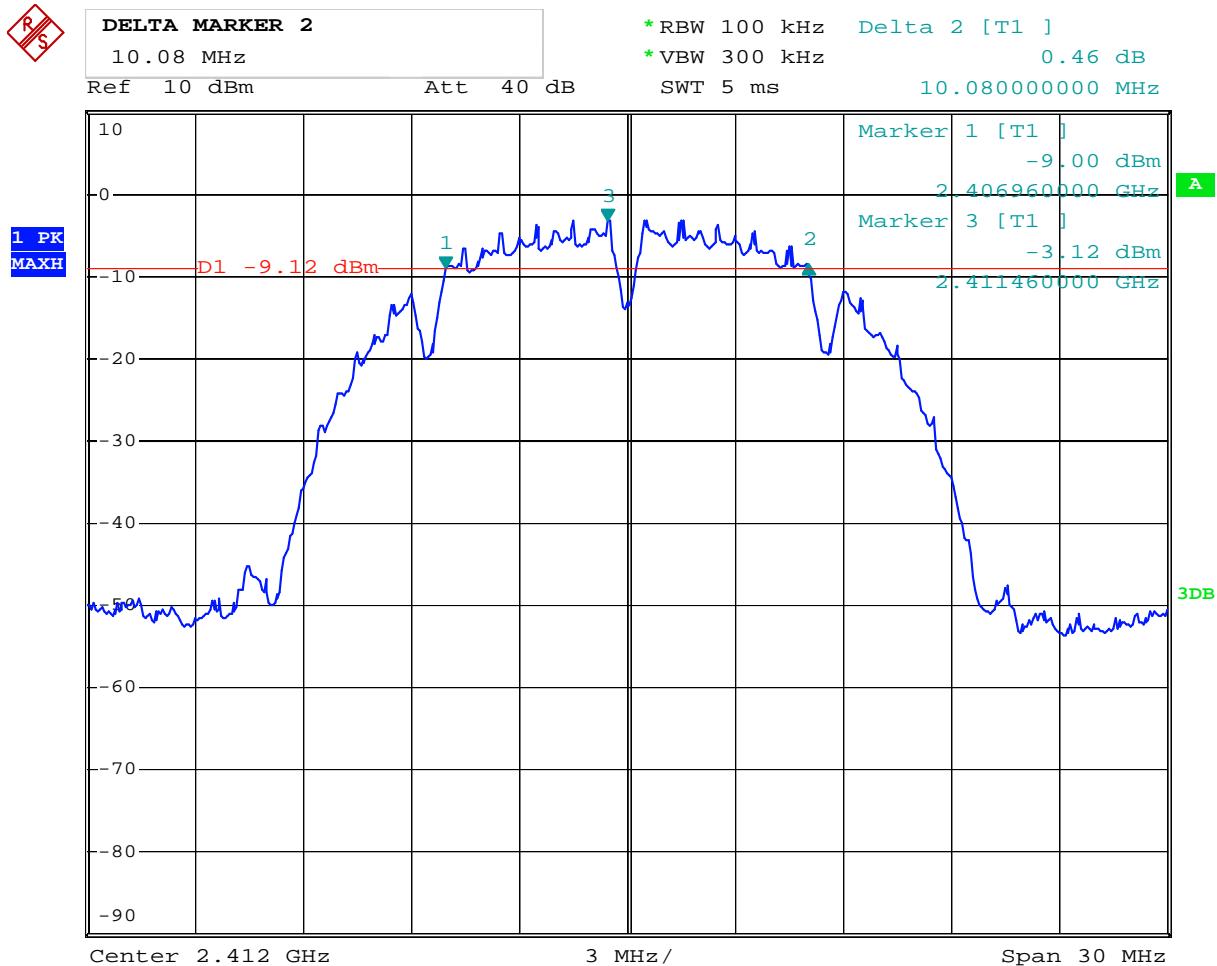
| EUT         |                         | SET TOP BOX               |                      | Model               | LN4000     |  |
|-------------|-------------------------|---------------------------|----------------------|---------------------|------------|--|
| Mode        |                         | 802.11n                   |                      | Input Voltage       | AC 120V    |  |
| Temperature |                         | 24 deg. C.                |                      | Humid Pity          | 56% RH     |  |
| Channel     | Channel Frequency (MHz) | Data Transfer Rate (Mbps) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass/ Fail |  |
| 1           | 2412                    | HT20                      | 17.76                | 0.5                 | Pass       |  |
| 6           | 2437                    | HT20                      | 17.76                | 0.5                 | Pass       |  |
| 11          | 2462                    | HT20                      | 17.76                | 0.5                 | Pass       |  |
| 1           | 2422                    | HT40                      | 36.50                | 0.5                 | Pass       |  |
| 4           | 2437                    | HT40                      | 36.53                | 0.5                 | Pass       |  |
| 7           | 2452                    | HT40                      | 36.50                | 0.5                 | Pass       |  |

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### 1. 802.11b at 1Mbps of CH01

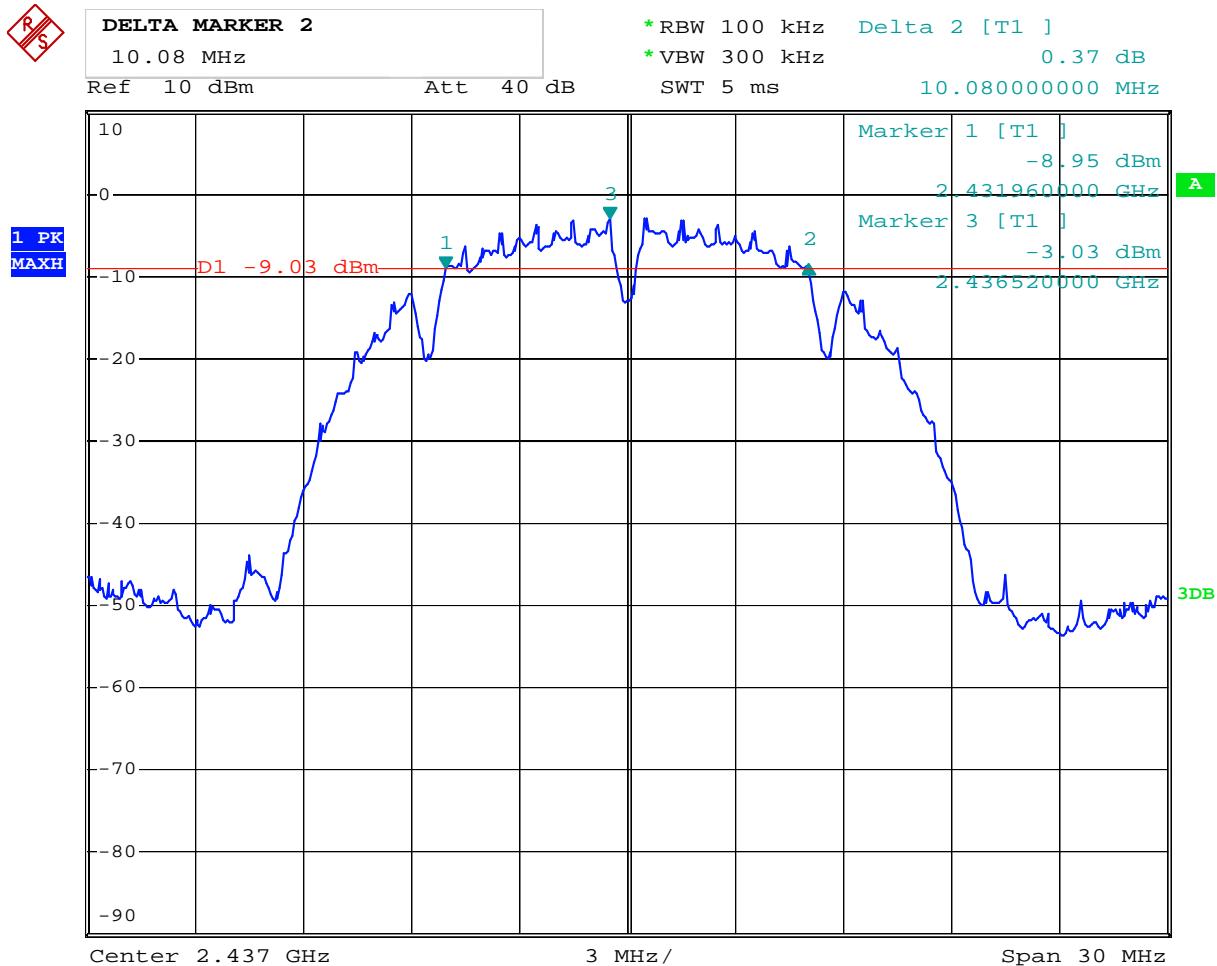


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## 2. 802.11b at 1Mbps of CH06

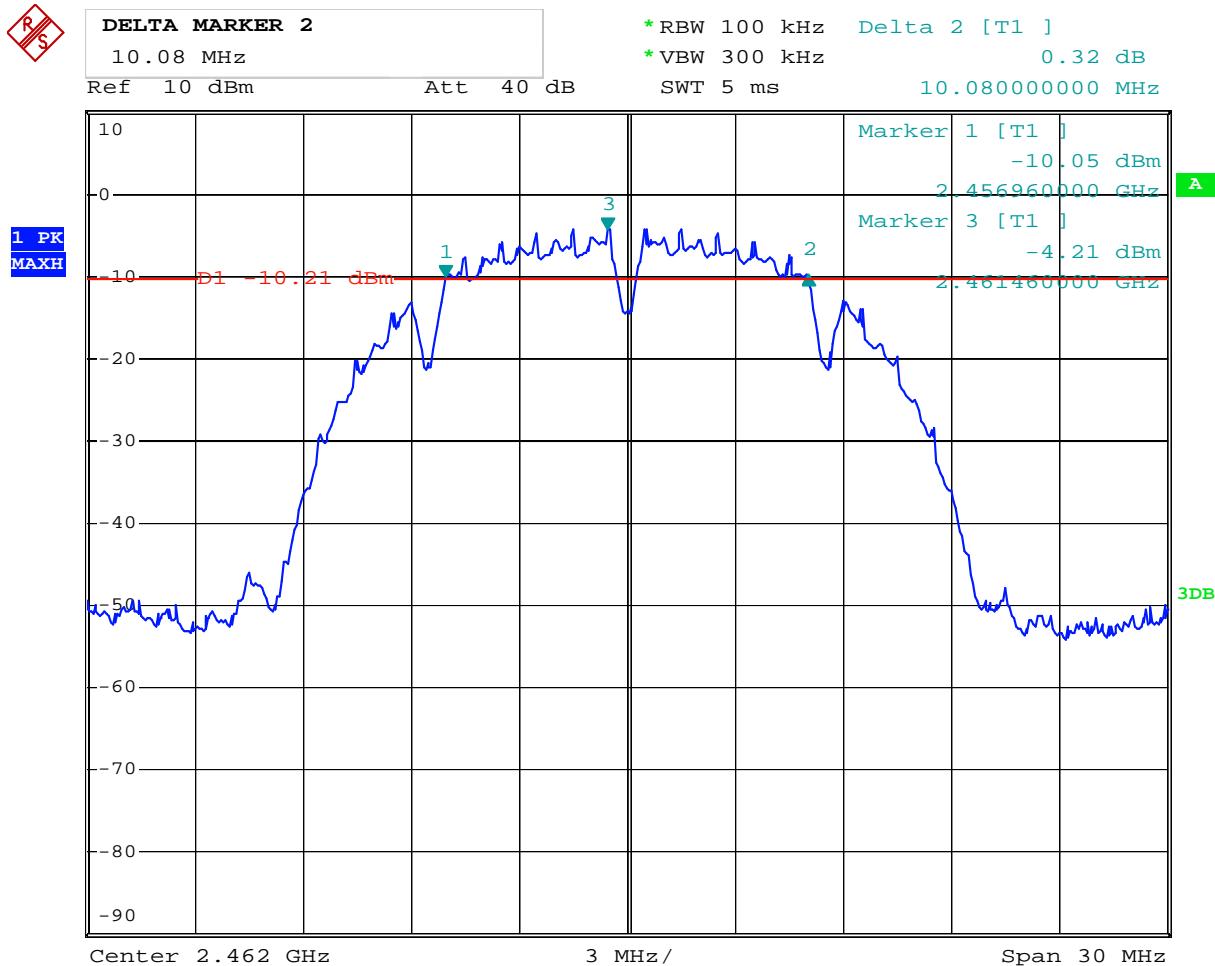


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### 3. 802.11b at 1Mbps of CH11

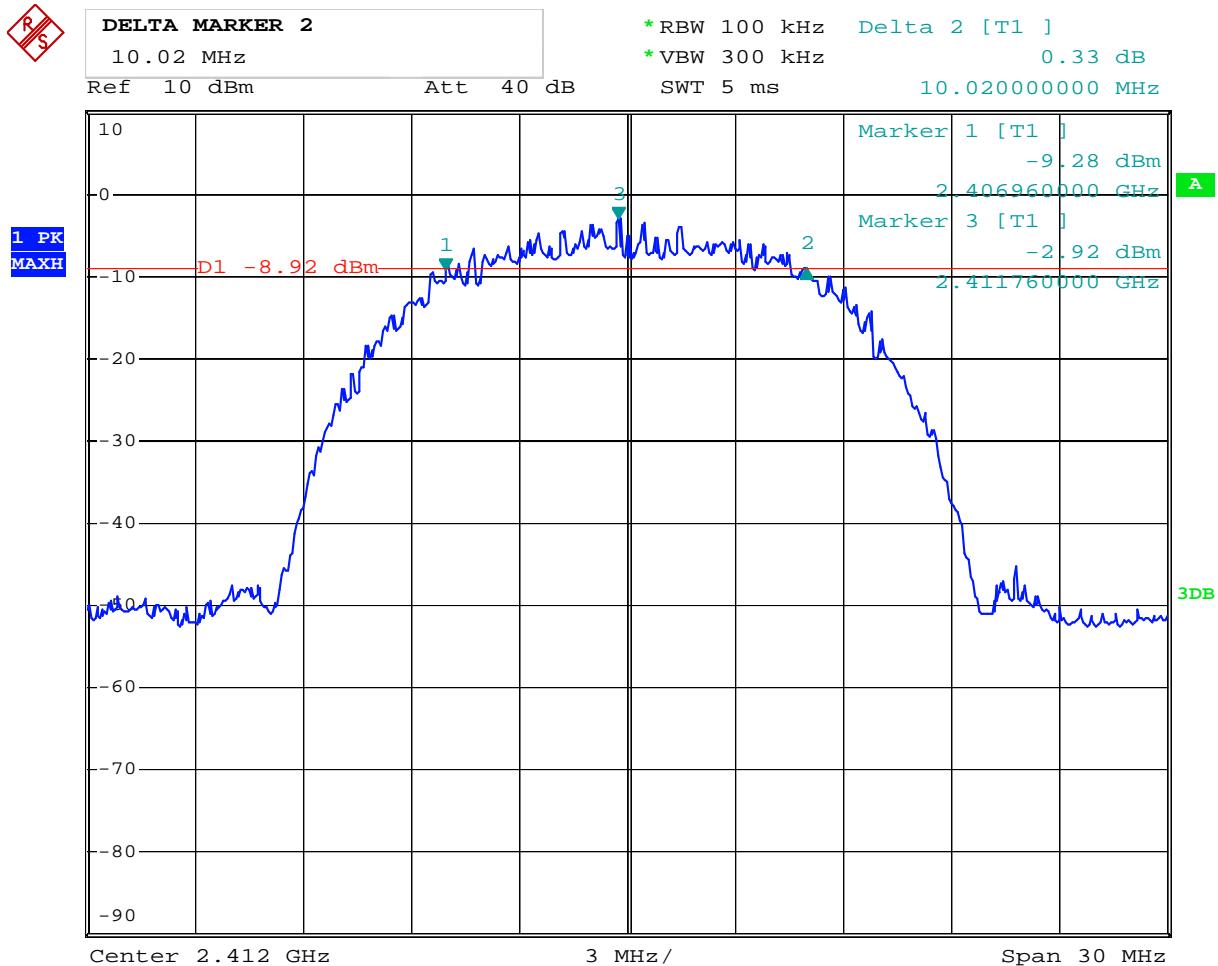


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#### 4. 802.11b at 11Mbps of CH01

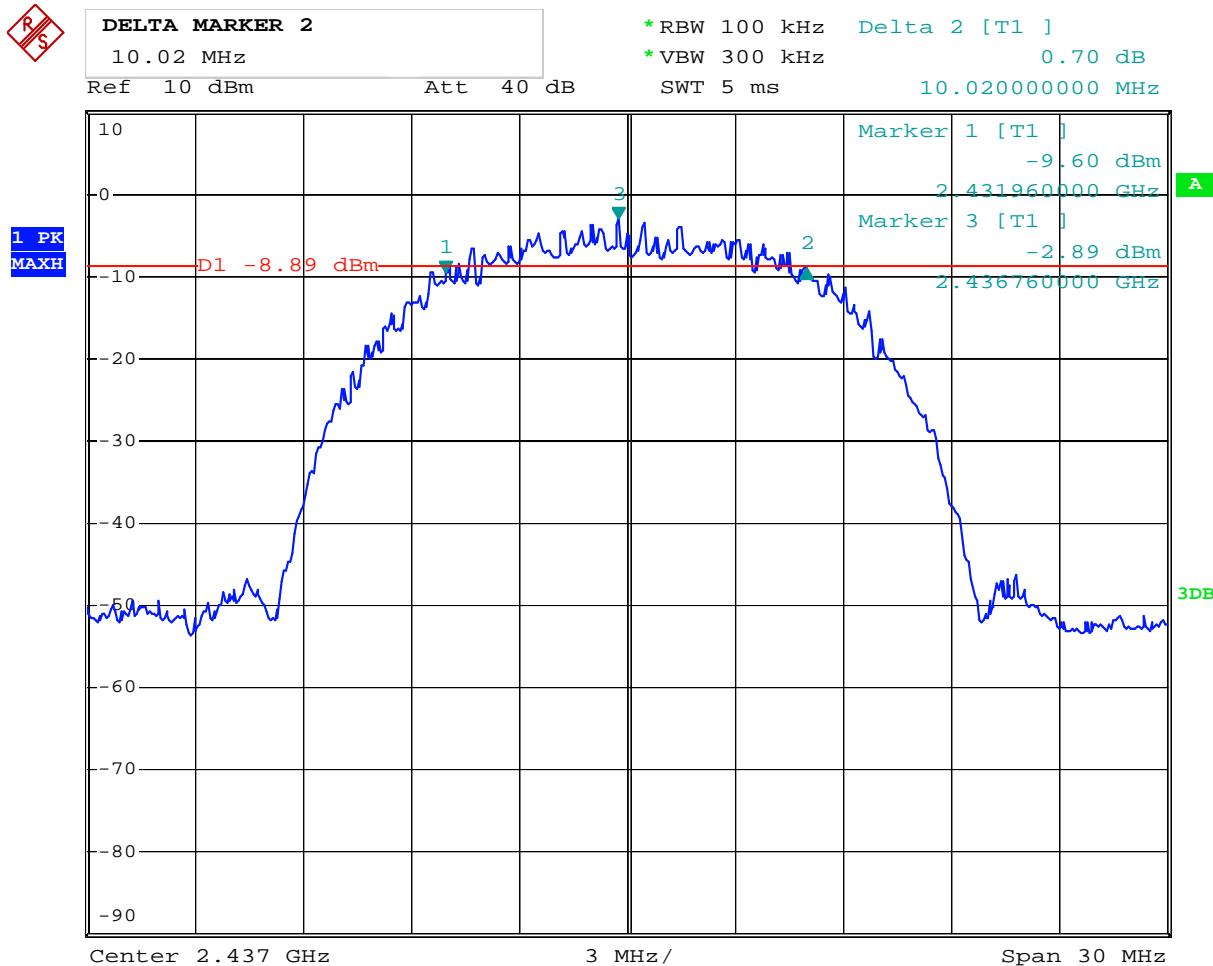


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## 5. 802.11b at 11Mbps of CH06

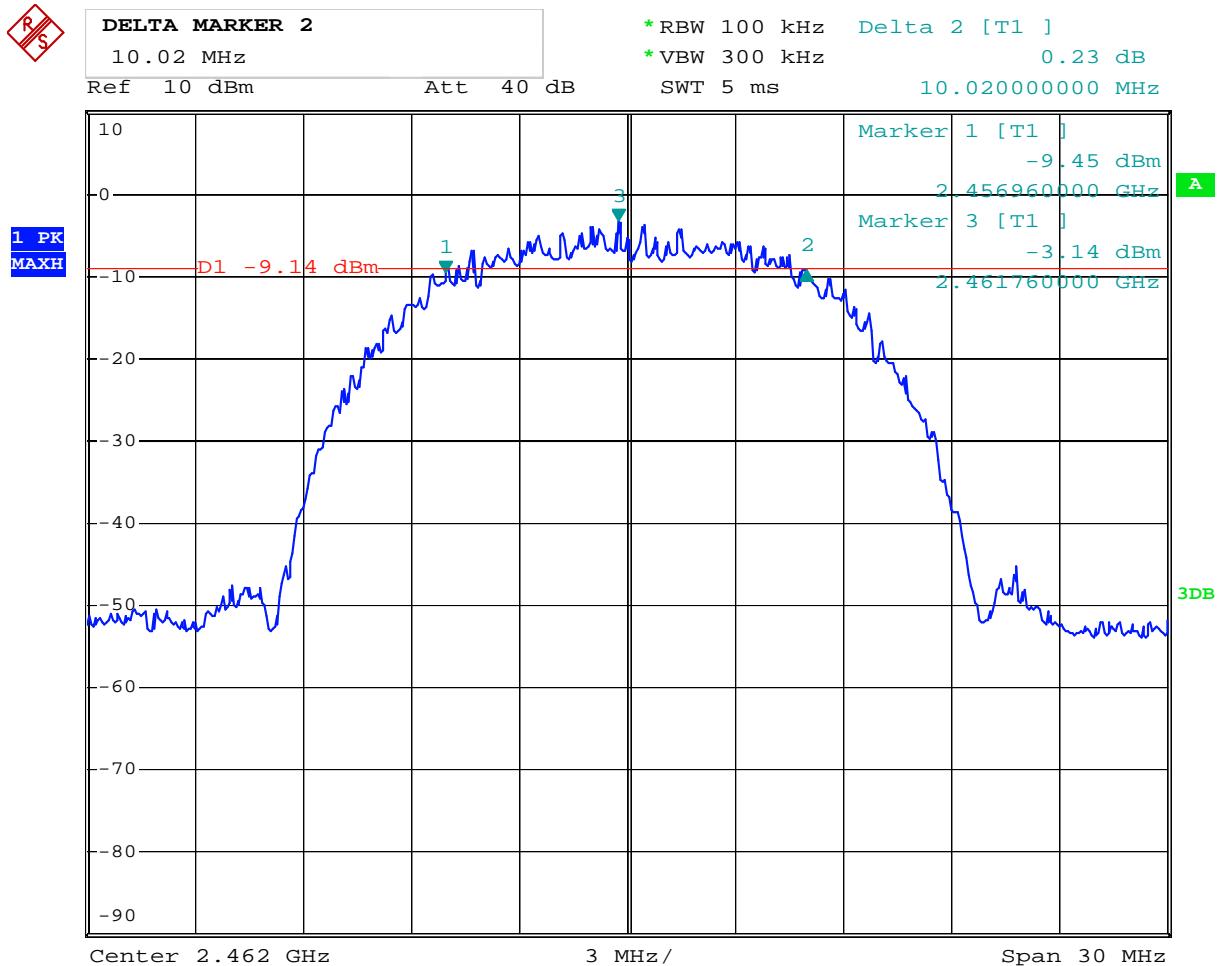


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## 6. 802.11b at 11Mbps of CH11

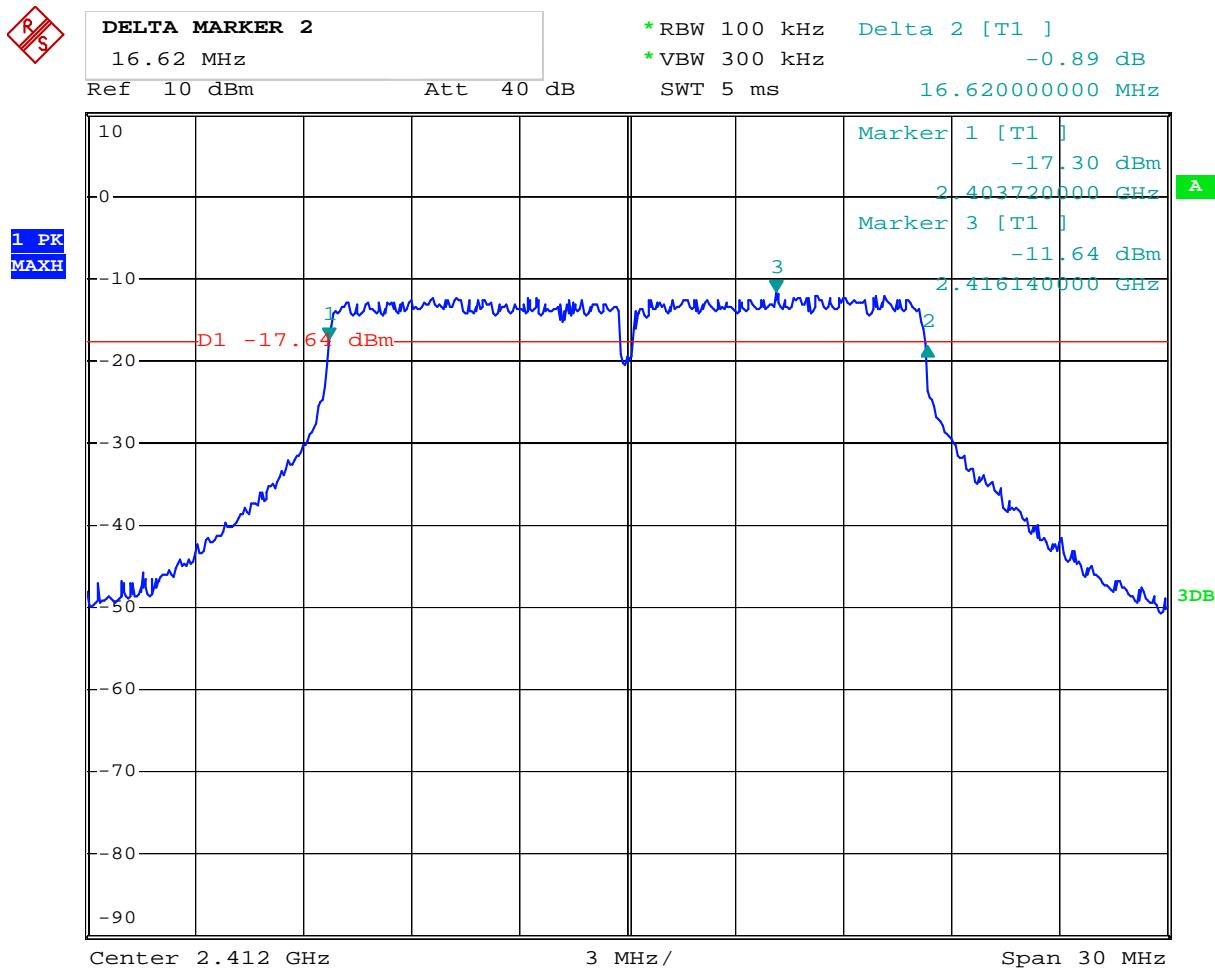


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### 7. 802.11g at 54 Mbps of CH01

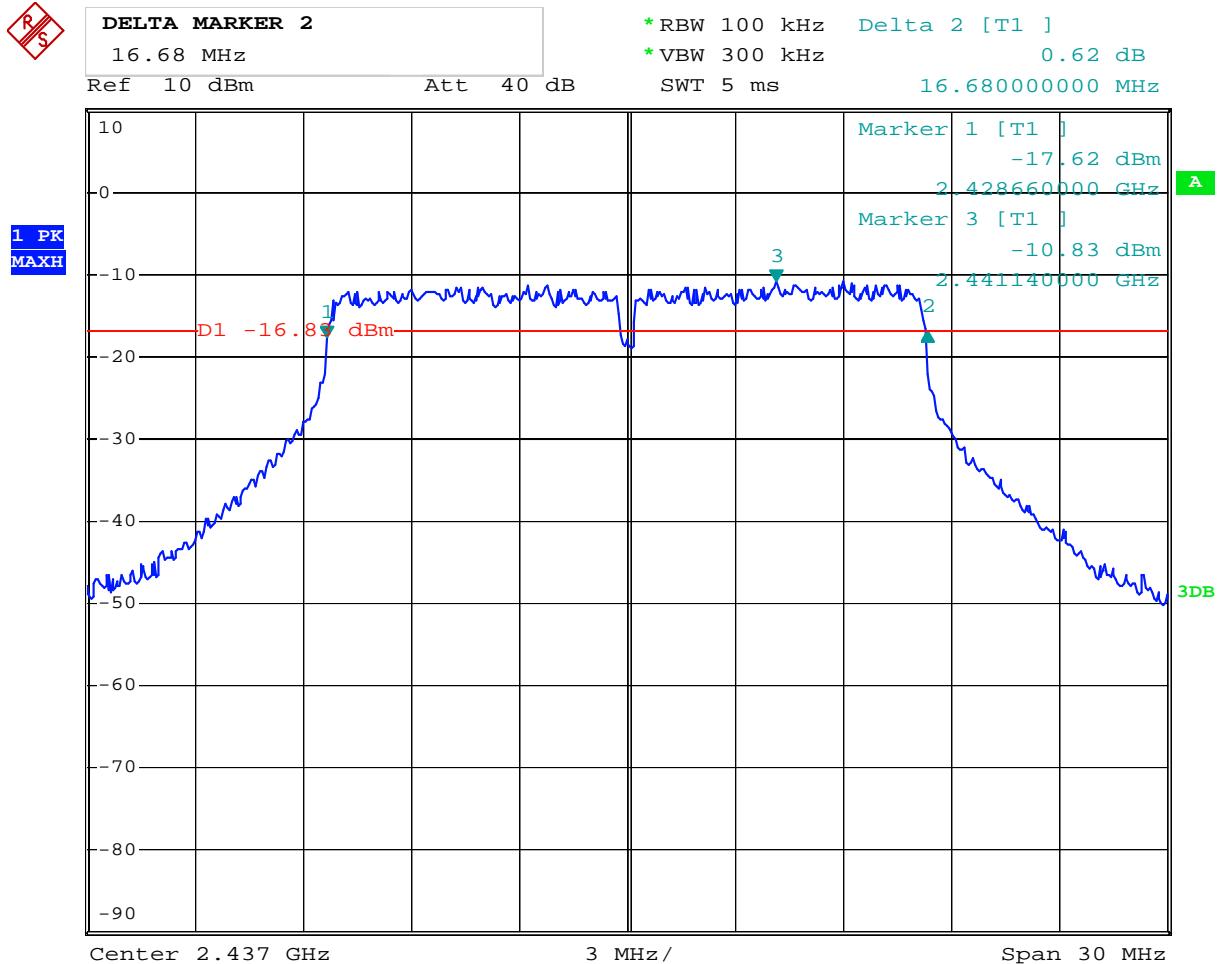


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### 8. 802.11g at 54 Mbps of CH06

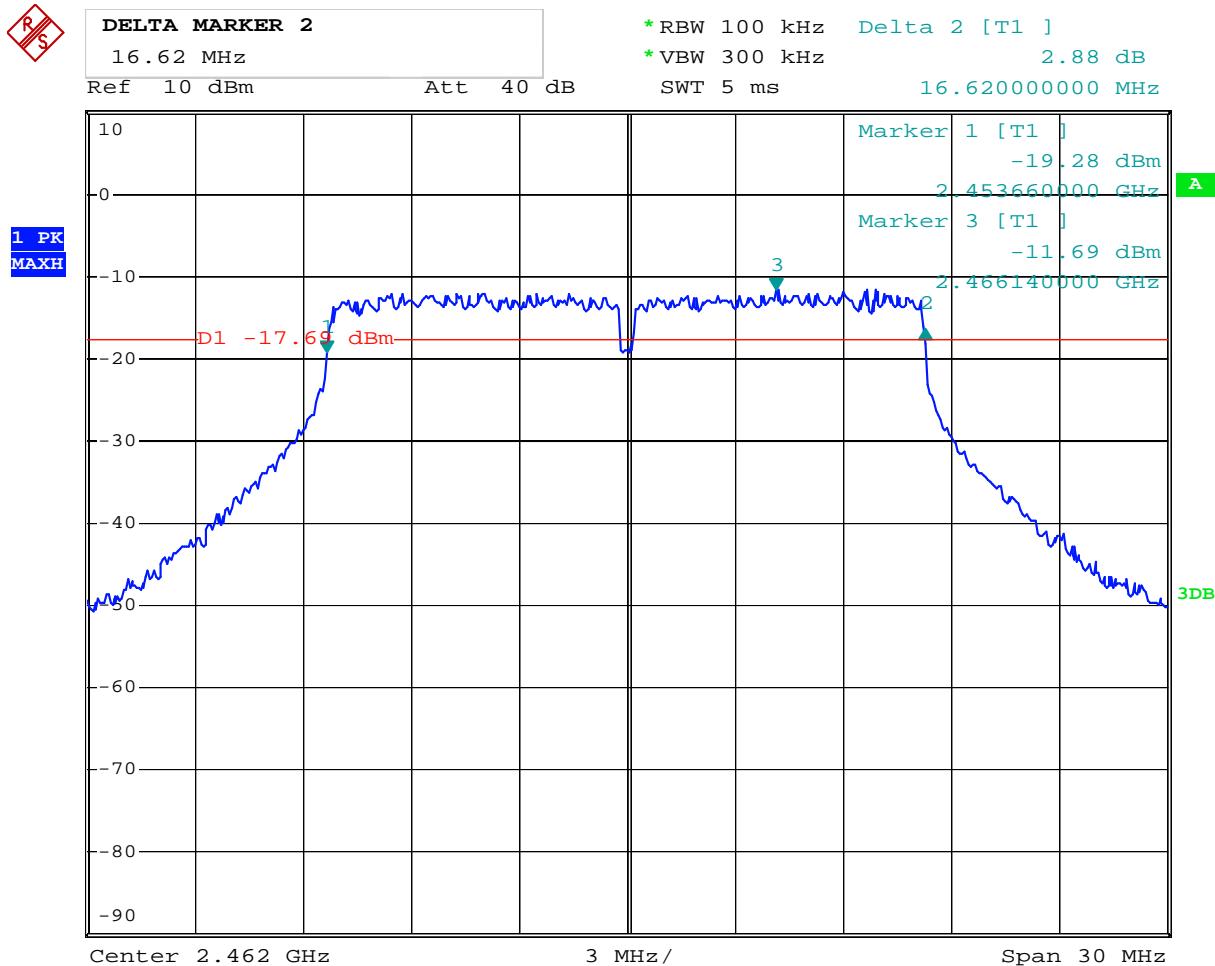


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### 9. 802.11g at 54 Mbps of CH11

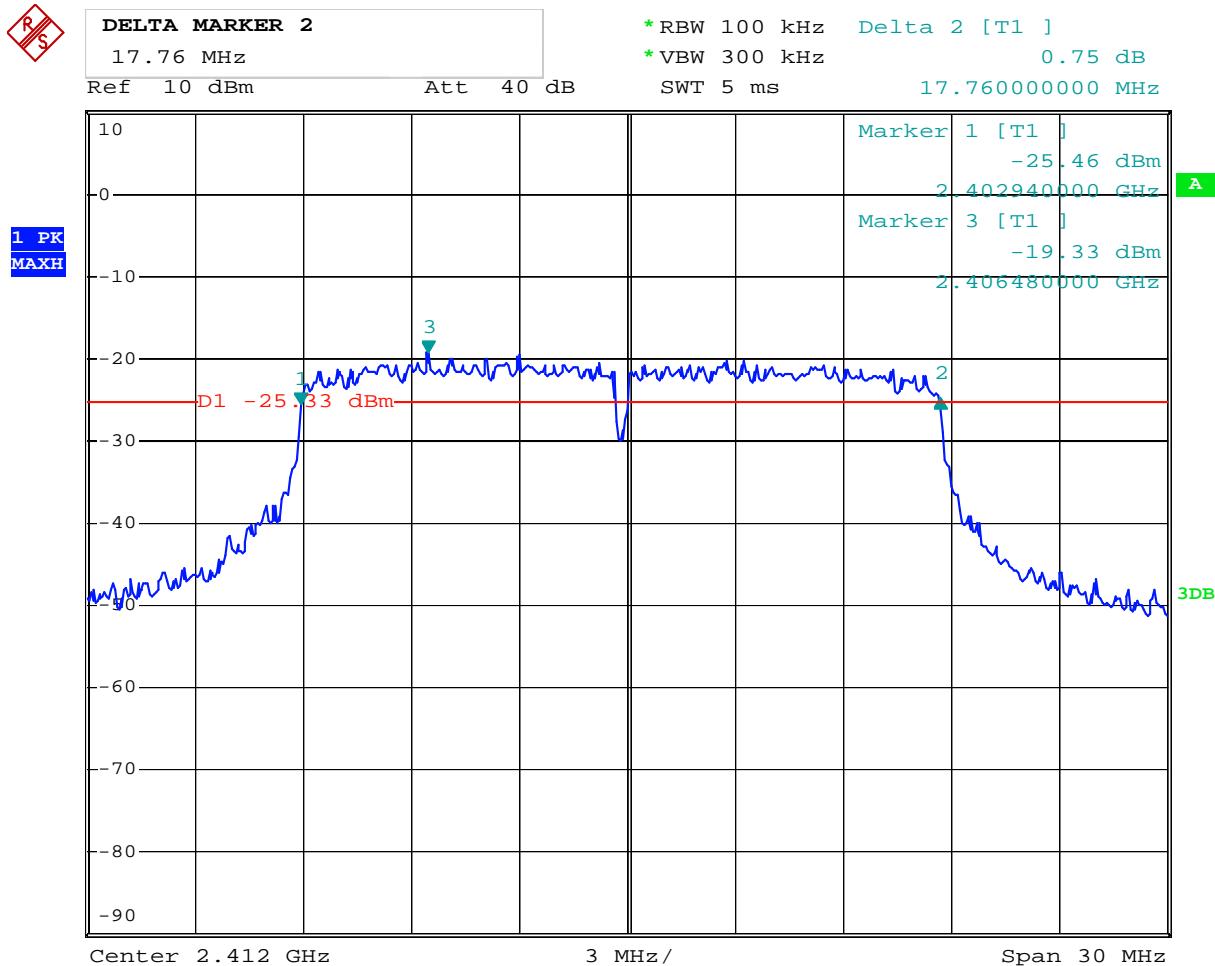


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### 10. 802.11n at HT20 of CH01

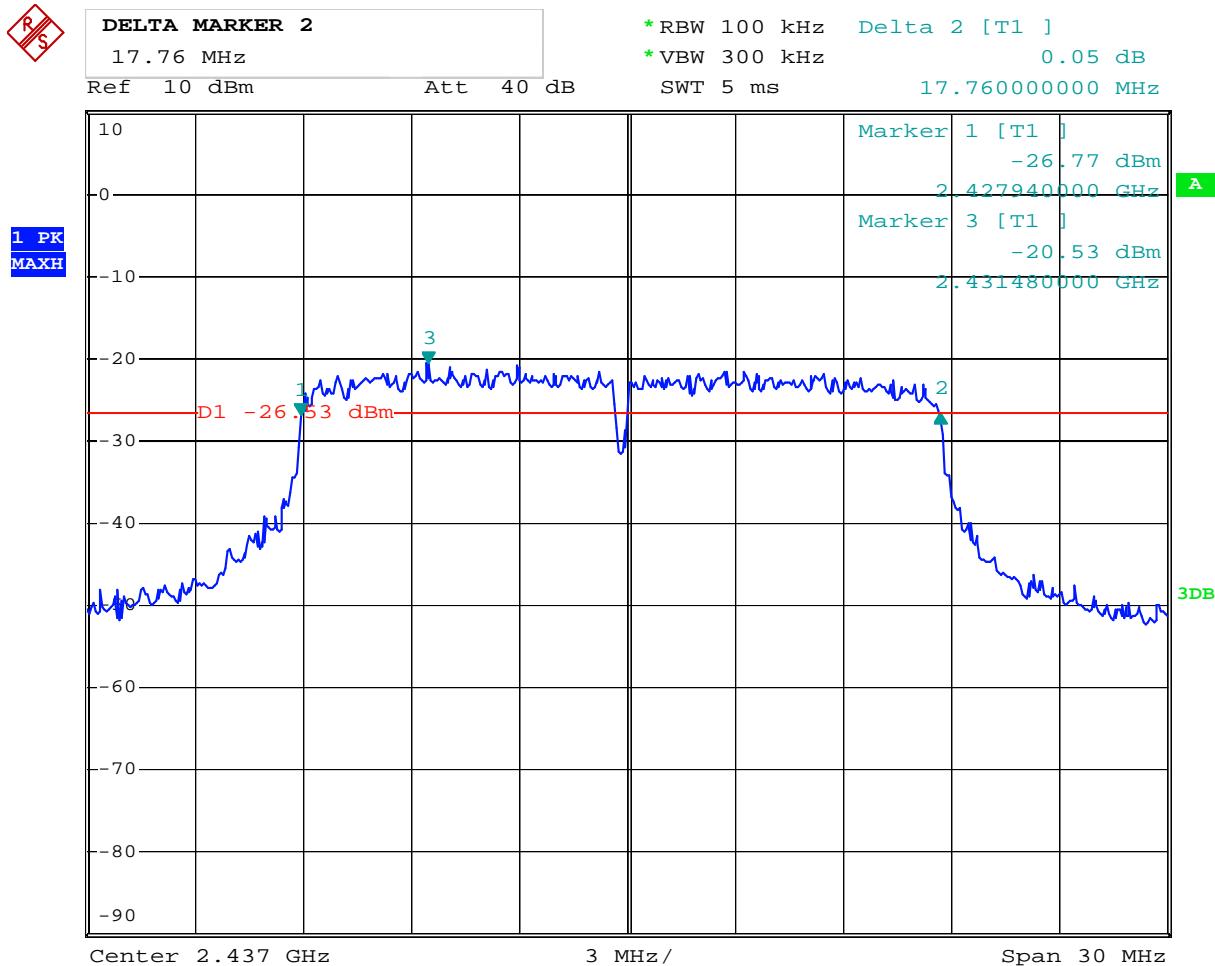


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### 11. 802.11n at HT20 of CH06

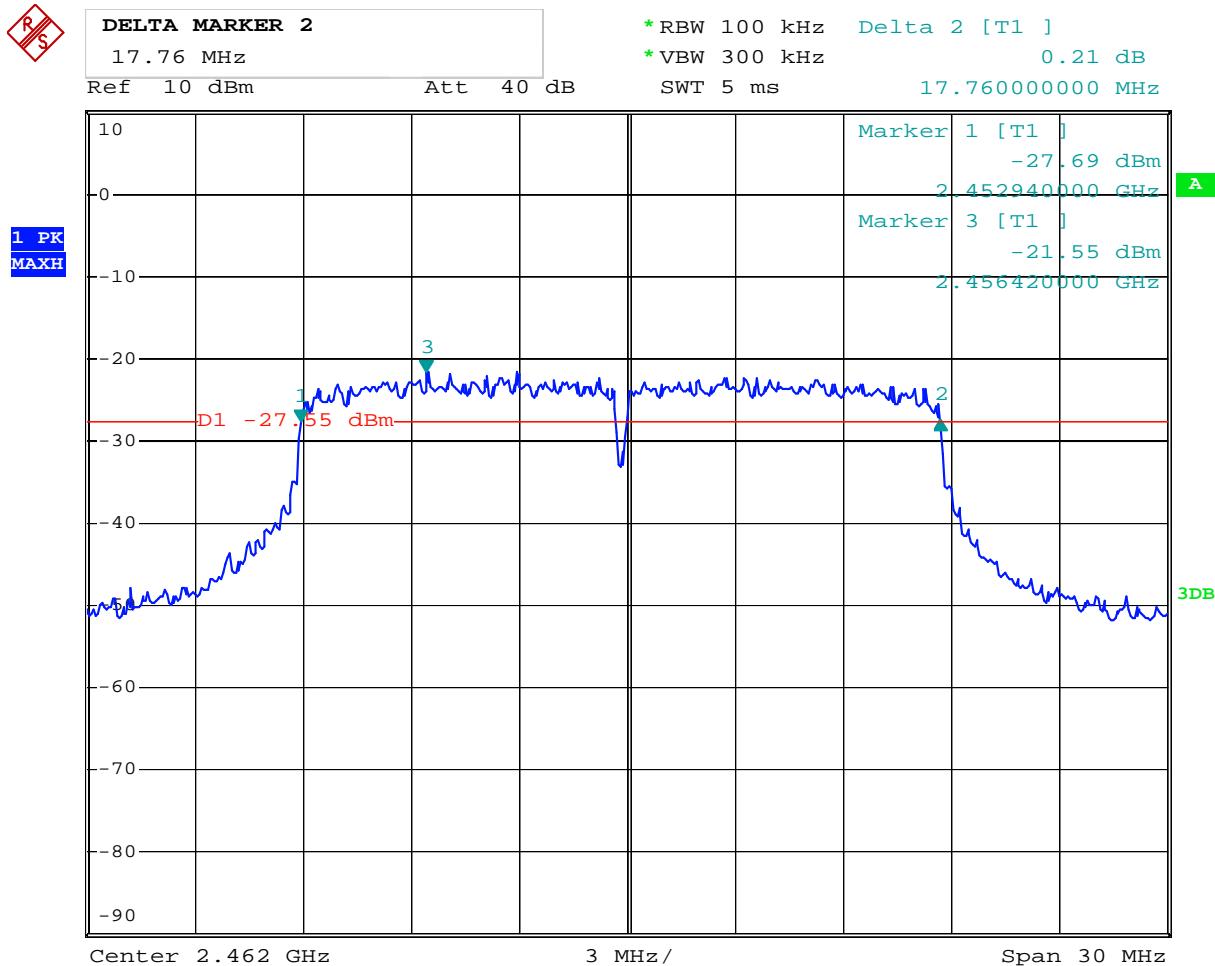


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## 12. 802.11n at HT20 of CH11

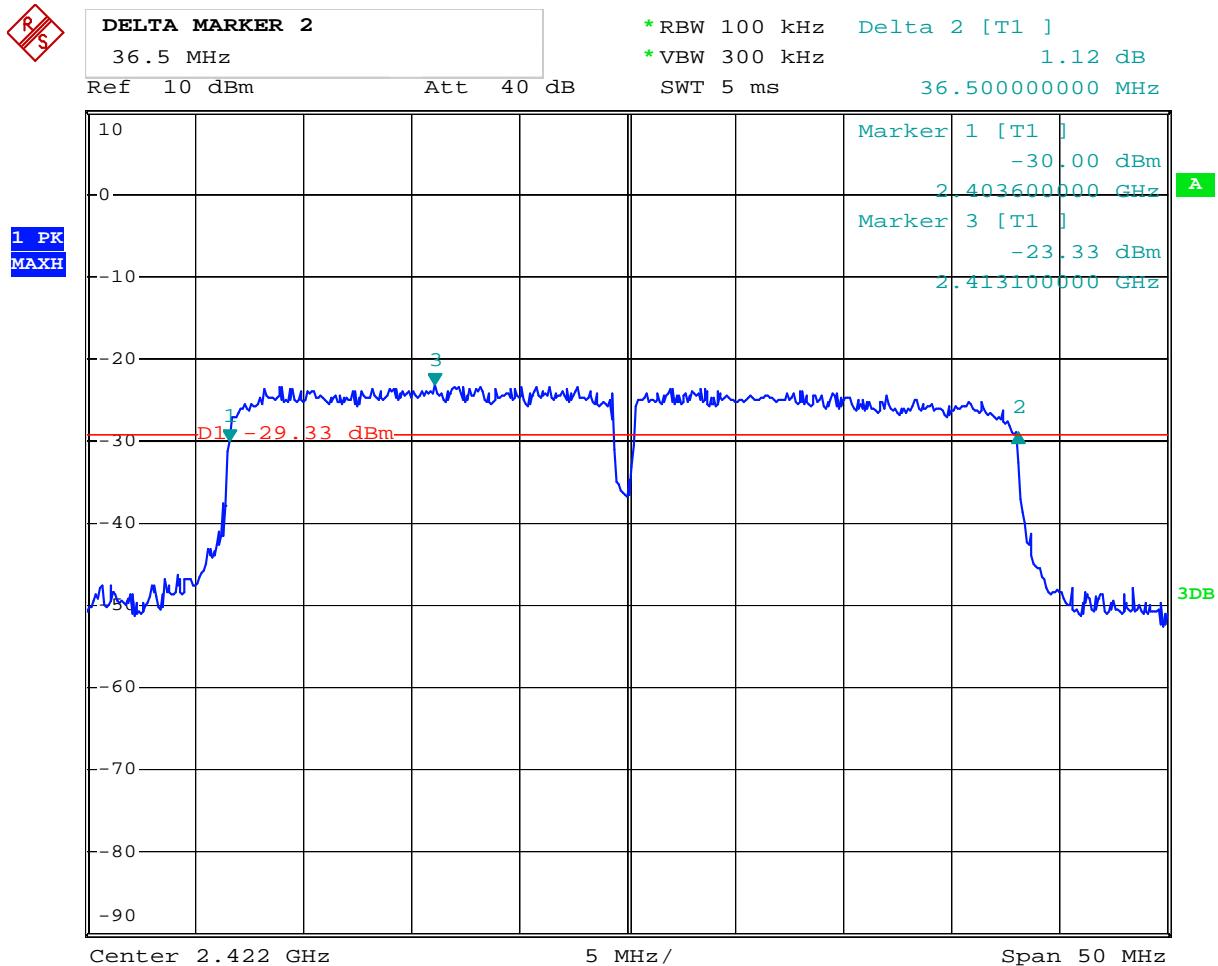


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### 13. 802.11n at HT40 of CH01

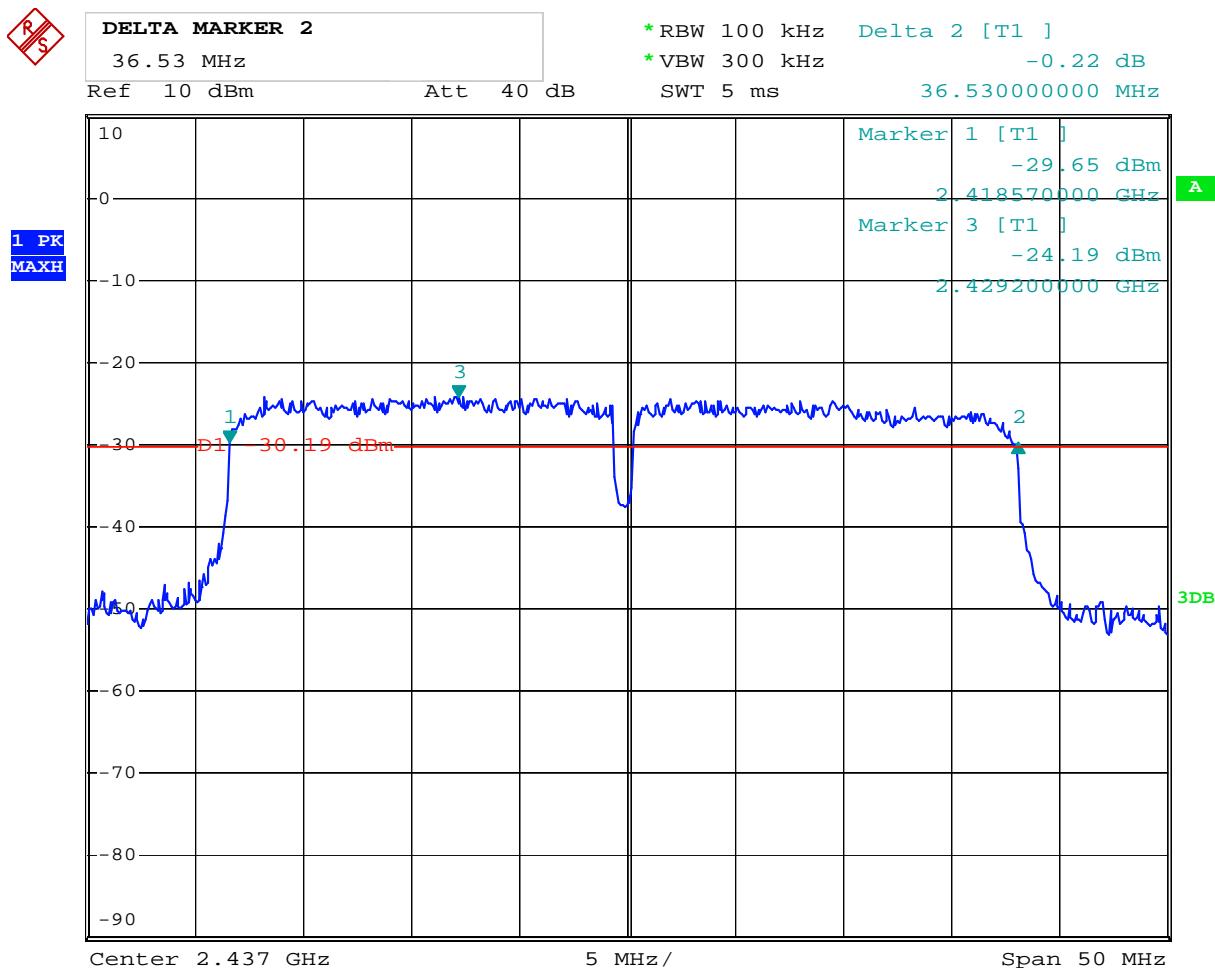


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#### 14. 802.11n at HT40 of CH04

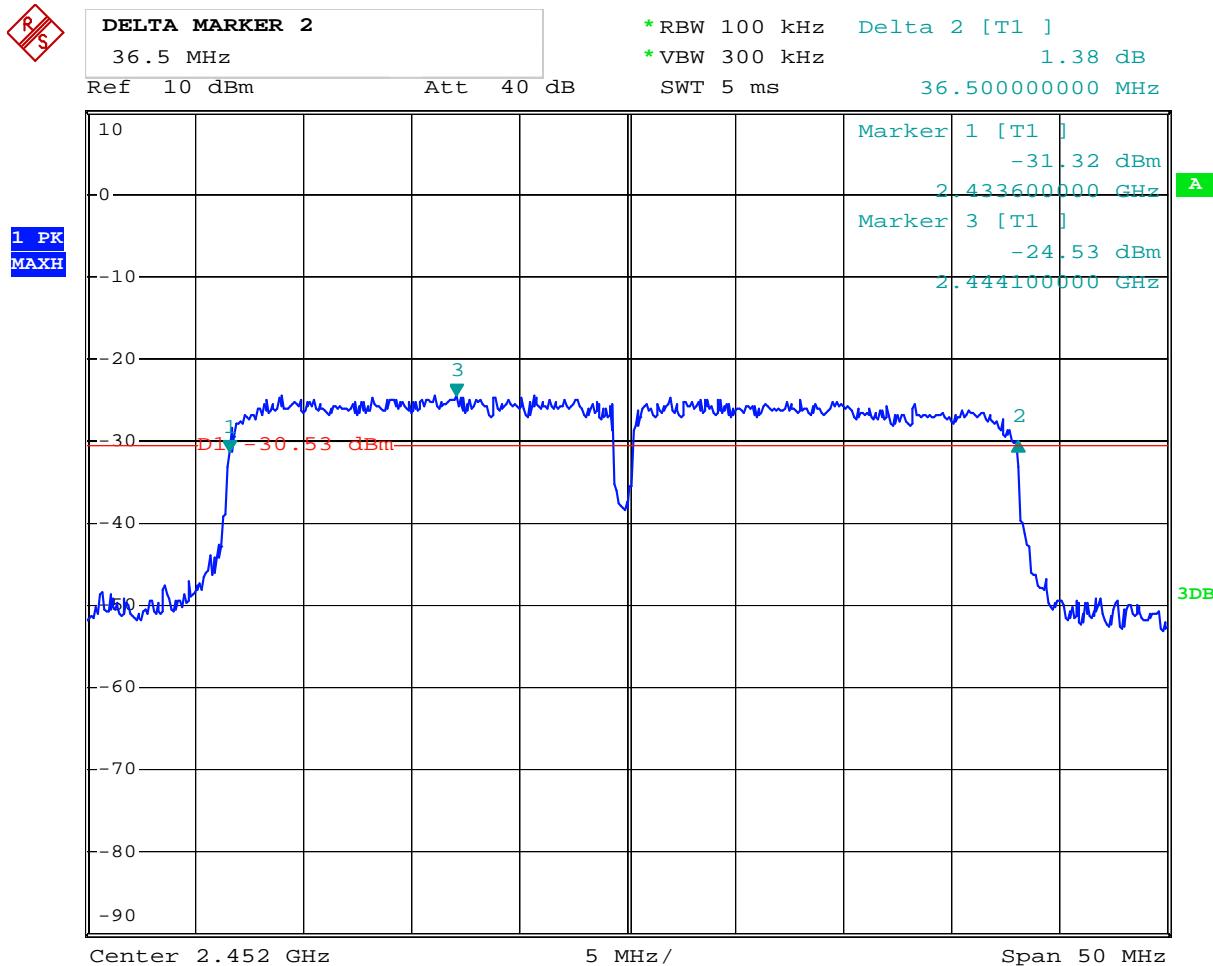


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### 15. 802.11n at HT40 of CH7



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## 8. Maximum Peak Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector ( conducted measurement ) while EUT was operating in transmit mode at the appropriate centre frequency.

#### **Note: the peak power was measured**

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#### 8.4 Test Results

| EUT                 |                         | SET TOP BOX             |                        | Model         | LN4000    |
|---------------------|-------------------------|-------------------------|------------------------|---------------|-----------|
| Mode                |                         | 802.11b 11Mbps          |                        | Input Voltage | See Below |
| Temperature         |                         | 24 deg. C,              |                        | Humid Pity    | 56% RH    |
| Channel             | Channel Frequency (MHz) | Peak Power Output (dBm) | Peak Power Limit (dBm) | Pass/ Fail    |           |
| Test Voltage: 120V~ |                         |                         |                        |               |           |
| 1                   | 2412                    | 14.78                   | 30                     | Pass          |           |
| 6                   | 2437                    | 14.95                   | 30                     | Pass          |           |
| 11                  | 2462                    | 15.23                   | 30                     | Pass          |           |
| Test Voltage: 138V~ |                         |                         |                        |               |           |
| 1                   | 2412                    | 15.05                   | 30                     | Pass          |           |
| 6                   | 2437                    | 15.22                   | 30                     | Pass          |           |
| 11                  | 2462                    | 15.32                   | 30                     | Pass          |           |
| Test Voltage: 102V~ |                         |                         |                        |               |           |
| 1                   | 2412                    | 15.16                   | 30                     | Pass          |           |
| 6                   | 2437                    | 15.18                   | 30                     | Pass          |           |
| 11                  | 2462                    | 15.35                   | 30                     | Pass          |           |

Note: 1. At final test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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| EUT                |                         | SET TOP BOX |                         | Model                  | LN4000     |
|--------------------|-------------------------|-------------|-------------------------|------------------------|------------|
| Mode               |                         | 802.11g     |                         | Input Voltage          | See Below  |
| Temperature        |                         | 24 deg. C,  |                         | Humid Pity             | 56% RH     |
| Channel            | Channel Frequency (MHz) |             | Peak Power Output (dBm) | Peak Power Limit (dBm) | Pass/ Fail |
| Test Voltage:120V~ |                         |             |                         |                        |            |
| 1                  | 2412                    | 14.08       | 30                      | Pass                   |            |
| 6                  | 2437                    | 14.79       | 30                      | Pass                   |            |
| 11                 | 2462                    | 14.02       | 30                      | Pass                   |            |
| Test Voltage:138V~ |                         |             |                         |                        |            |
| 1                  | 2412                    | 14.33       | 30                      | Pass                   |            |
| 6                  | 2437                    | 14.65       | 30                      | Pass                   |            |
| 11                 | 2462                    | 14.18       | 30                      | Pass                   |            |
| Test Voltage:102V~ |                         |             |                         |                        |            |
| 1                  | 2412                    | 15.21       | 30                      | Pass                   |            |
| 6                  | 2437                    | 15.72       | 30                      | Pass                   |            |
| 11                 | 2462                    | 15.88       | 30                      | Pass                   |            |

Note: 1. At finial test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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| EUT                |                            | SET TOP BOX  |                            | Model                        | LN4000     |
|--------------------|----------------------------|--------------|----------------------------|------------------------------|------------|
| Mode               |                            | 802.11n HT20 |                            | Input Voltage                | See Below  |
| Temperature        |                            | 24 deg. C,   |                            | Humid Pity                   | 56% RH     |
| Channel            | Channel Frequency<br>(MHz) |              | Peak Power Output<br>(dBm) | Peak Power<br>Limit<br>(dBm) | Pass/ Fail |
| Test Voltage:120V~ |                            |              |                            |                              |            |
| 1                  | 2412                       |              | 13.22                      | 30                           | Pass       |
| 6                  | 2437                       |              | 13.38                      | 30                           | Pass       |
| 11                 | 2462                       |              | 13.85                      | 30                           | Pass       |
| Test Voltage:138V~ |                            |              |                            |                              |            |
| 1                  | 2412                       |              | 13.35                      | 30                           | Pass       |
| 6                  | 2437                       |              | 13.26                      | 30                           | Pass       |
| 11                 | 2462                       |              | 13.77                      | 30                           | Pass       |
| Test Voltage:102V~ |                            |              |                            |                              |            |
| 1                  | 2412                       |              | 13.31                      | 30                           | Pass       |
| 6                  | 2437                       |              | 13.32                      | 30                           | Pass       |
| 11                 | 2462                       |              | 13.62                      | 30                           | Pass       |

Note: 1. At finial test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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| EUT                |                            | SET TOP BOX  |                            | Model                        | LN4000     |
|--------------------|----------------------------|--------------|----------------------------|------------------------------|------------|
| Mode               |                            | 802.11n HT40 |                            | Input Voltage                | See Below  |
| Temperature        |                            | 24 deg. C,   |                            | Humid Pity                   | 56% RH     |
| Channel            | Channel Frequency<br>(MHz) |              | Peak Power Output<br>(dBm) | Peak Power<br>Limit<br>(dBm) | Pass/ Fail |
| Test Voltage:120V~ |                            |              |                            |                              |            |
| 1                  | 2422                       |              | 13.51                      | 30                           | Pass       |
| 5                  | 2437                       |              | 13.70                      | 30                           | Pass       |
| 7                  | 2452                       |              | 14.19                      | 30                           | Pass       |
| Test Voltage:138V~ |                            |              |                            |                              |            |
| 1                  | 2422                       |              | 13.68                      | 30                           | Pass       |
| 5                  | 2437                       |              | 13.83                      | 30                           | Pass       |
| 7                  | 2452                       |              | 14.36                      | 30                           | Pass       |
| Test Voltage:102V~ |                            |              |                            |                              |            |
| 1                  | 2422                       |              | 13.65                      | 30                           | Pass       |
| 5                  | 2437                       |              | 13.59                      | 30                           | Pass       |
| 7                  | 2452                       |              | 14.22                      | 30                           | Pass       |

Note: 1. At finial test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

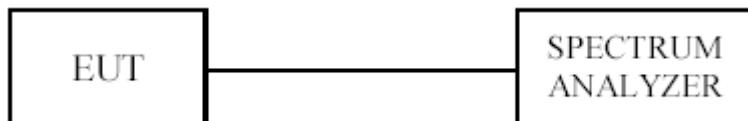
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW  $\geq$  30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be  $\leq$  8 dBm.

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#### 9.4 Test Result

| EUT         |                         | SET TOP BOX                           | Model               | LN4000     |
|-------------|-------------------------|---------------------------------------|---------------------|------------|
| Mode        |                         | 802.11b 1Mbps                         | Input Voltage       | AC 120V    |
| Temperature |                         | 24 deg. C,                            | Humid Pity          | 56% RH     |
| Channel     | Channel Frequency (MHz) | Final RF Power Level in 3kHz BW (dBm) | Maximum Limit (dBm) | Pass/ Fail |
| 1Mbps       |                         |                                       |                     |            |
| 1           | 2412                    | -16.62                                | 8                   | Pass       |
| 6           | 2437                    | -17.15                                | 8                   | Pass       |
| 11          | 2462                    | -16.88                                | 8                   | Pass       |

**Note:** At final test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

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| EUT         |                         | SET TOP BOX                           | Model               | LN4000     |
|-------------|-------------------------|---------------------------------------|---------------------|------------|
| Mode        |                         | 802.11b 11Mbps                        | Input Voltage       | AC 120V    |
| Temperature |                         | 24 deg. C,                            | Humid Pity          | 56% RH     |
| Channel     | Channel Frequency (MHz) | Final RF Power Level in 3kHz BW (dBm) | Maximum Limit (dBm) | Pass/ Fail |
| 11Mbps      |                         |                                       |                     |            |
| 1           | 2412                    | -12.85                                | 8                   | Pass       |
| 6           | 2437                    | -13.02                                | 8                   | Pass       |
| 11          | 2462                    | -13.02                                | 8                   | Pass       |

**Note:** At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

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| EUT         |                            | SET TOP BOX |   | Model                  | LN4000     |
|-------------|----------------------------|-------------|---|------------------------|------------|
| Mode        |                            | 802.11g     |   | Input Voltage          | AC 120V    |
| Temperature |                            | 24 deg. C,  |   | HuWIFI<br>Router/APity | 56% RH     |
| Channel     | Channel Frequency<br>(MHz) |             | Final RF Power<br>Level in 3kHz BW<br>(dBm) | Maximum Limit<br>(dBm) | Pass/ Fail |
| 54Mbps      |                            |             |   |                        |            |
| 1           | 2412                       |             | -19.40                                      | 8                      | Pass       |
| 6           | 2437                       |             | -19.14                                      | 8                      | Pass       |
| 11          | 2462                       |             | -19.31                                      | 8                      | Pass       |

**Note:** At final test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

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| EUT         |                            | SET TOP BOX                          |   | Model                  | LN4000     |
|-------------|----------------------------|--------------------------------------|---|------------------------|------------|
| Mode        |                            | 802.11n HT20                         |   | Input Voltage          | AC 120V    |
| Temperature |                            | 24 deg. C,<br>HuWIFI<br>Router/APity |   | 56% RH                 |            |
| Channel     | Channel Frequency<br>(MHz) |                                      | Final RF Power<br>Level in 3kHz BW<br>(dBm) | Maximum Limit<br>(dBm) | Pass/ Fail |
| 11n HT20    |                            |                                      |   |                        |            |
| 1           | 2412                       |                                      | -27.43                                      | 8                      | Pass       |
| 6           | 2437                       |                                      | -28.21                                      | 8                      | Pass       |
| 11          | 2462                       |                                      | -29.67                                      | 8                      | Pass       |

**Note:** At finial test to get the worst-case emission at 65M for CH01, CH06 and CH11

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| EUT         |                            | SET TOP BOX                                 | Model                  | LN4000     |
|-------------|----------------------------|---|------------------------|------------|
| Mode        |                            | 802.11n HT40                                | Input Voltage          | AC 120V    |
| Temperature |                            | 24 deg. C,                                  | HuWIFI<br>Router/APity | 56% RH     |
| Channel     | Channel Frequency<br>(MHz) | Final RF Power<br>Level in 3kHz BW<br>(dBm) | Maximum Limit<br>(dBm) | Pass/ Fail |
| 11n HT40    |                            |   |                        |            |
| 1           | 2422                       | -29.74                                      | 8                      | Pass       |
| 5           | 2437                       | -30.23                                      | 8                      | Pass       |
| 7           | 2452                       | -31.32                                      | 8                      | Pass       |

**Note:** At final test to get the worst-case emission at 65M for CH01, CH06 and CH11

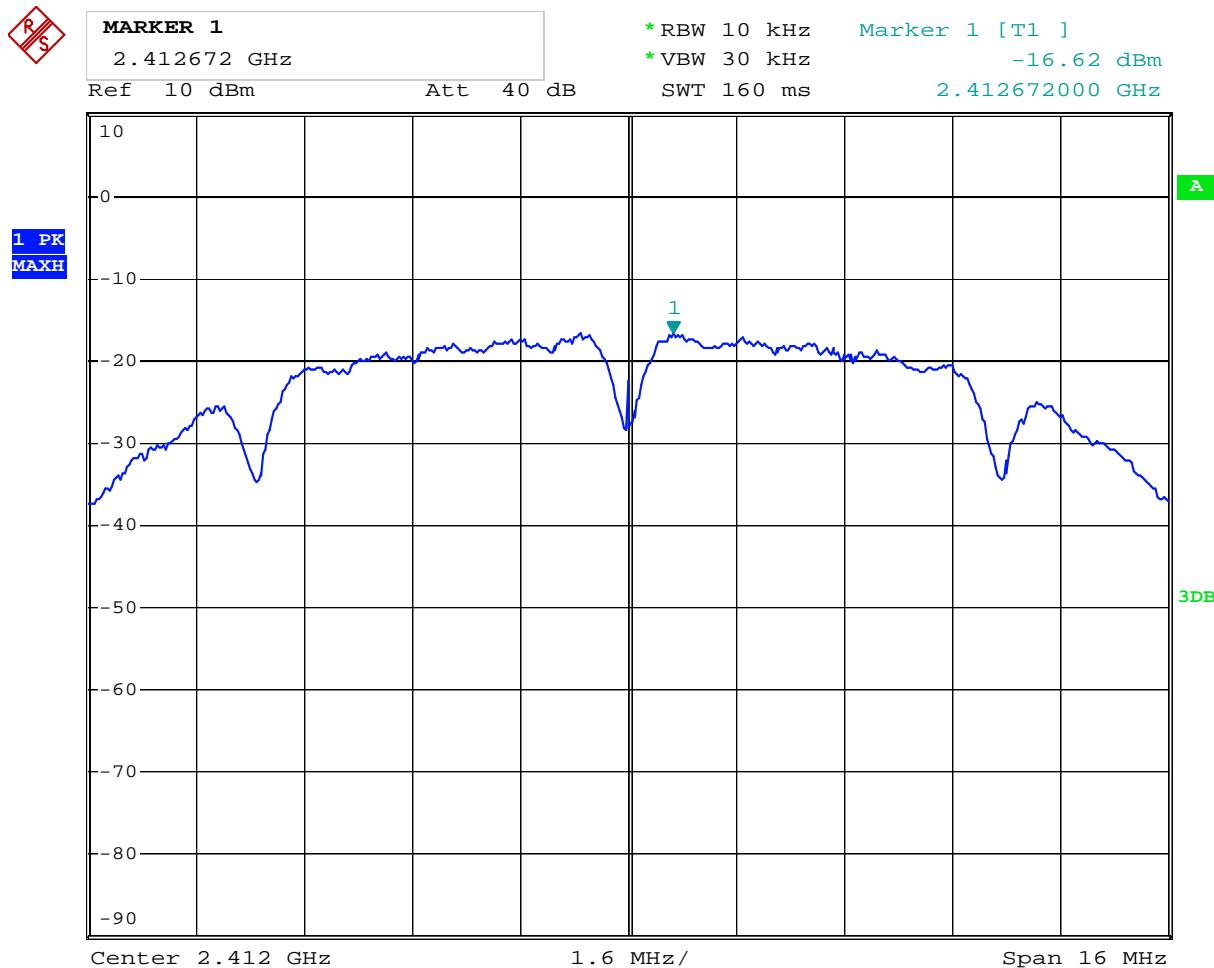
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## 9.5 Photo of Power Spectral Density Measurement

### 1. 802.11b at 1Mbps of CH01

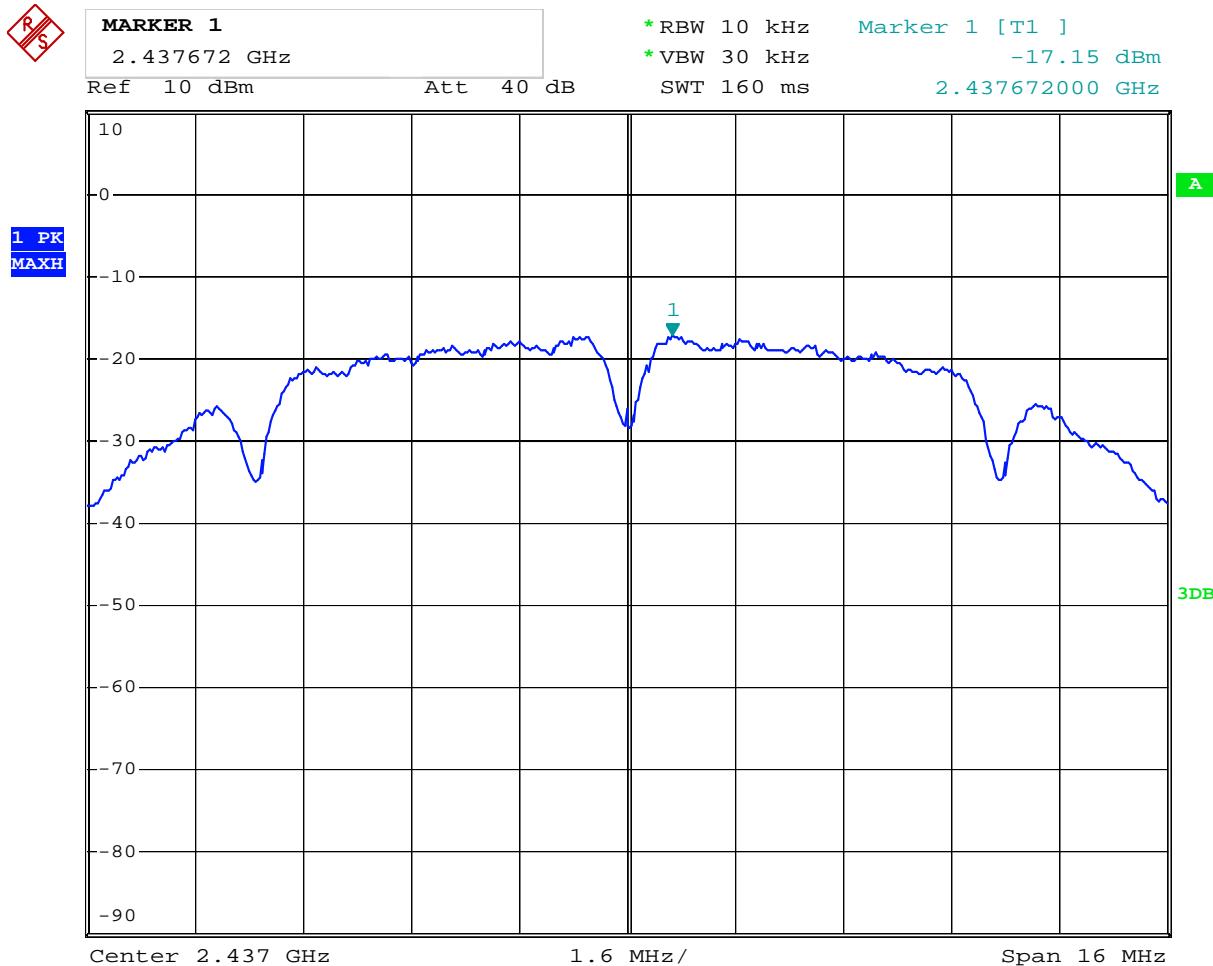


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2. 802.11b at 1Mbps of CH06

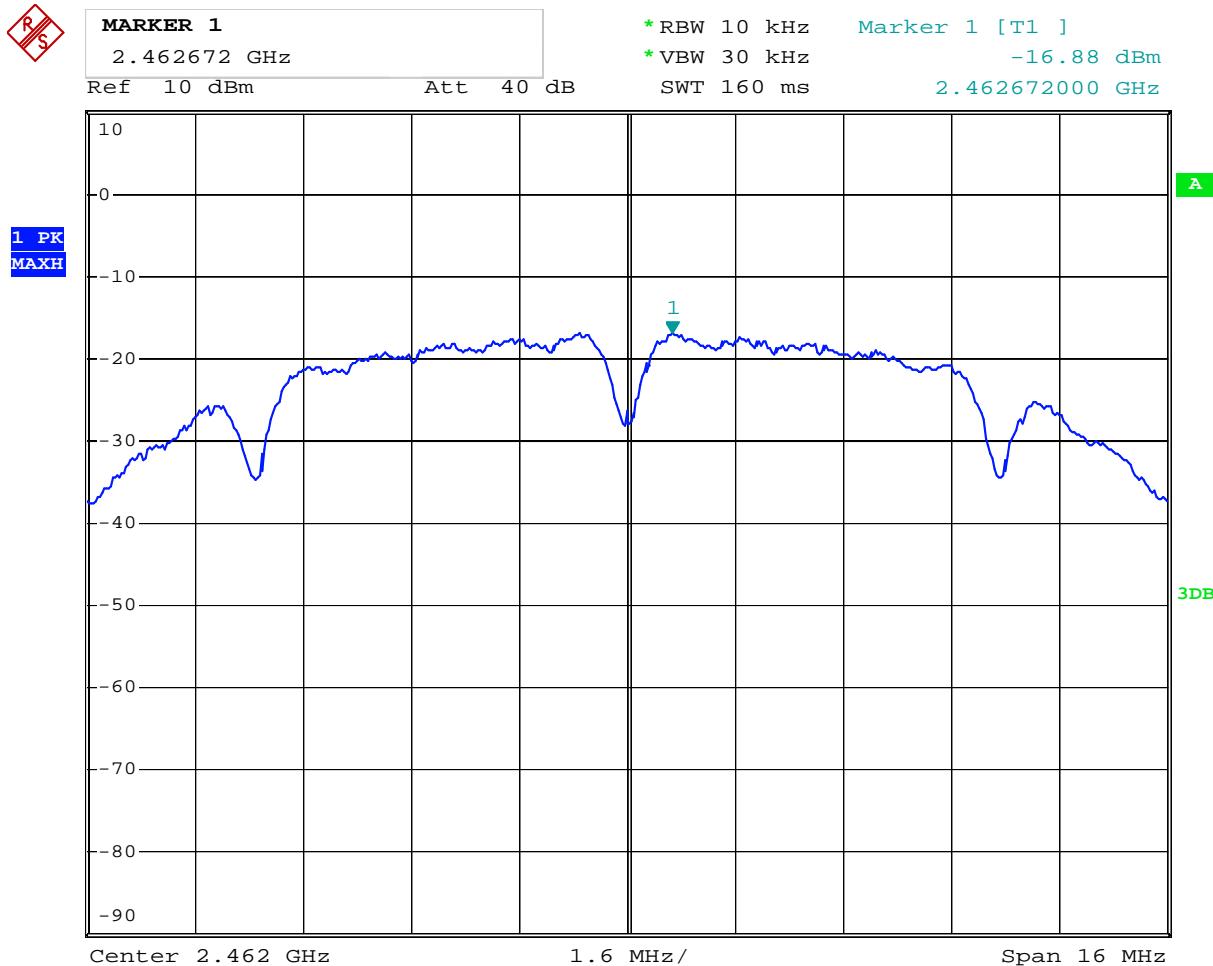


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3. 802.11b at 1Mbps of CH11

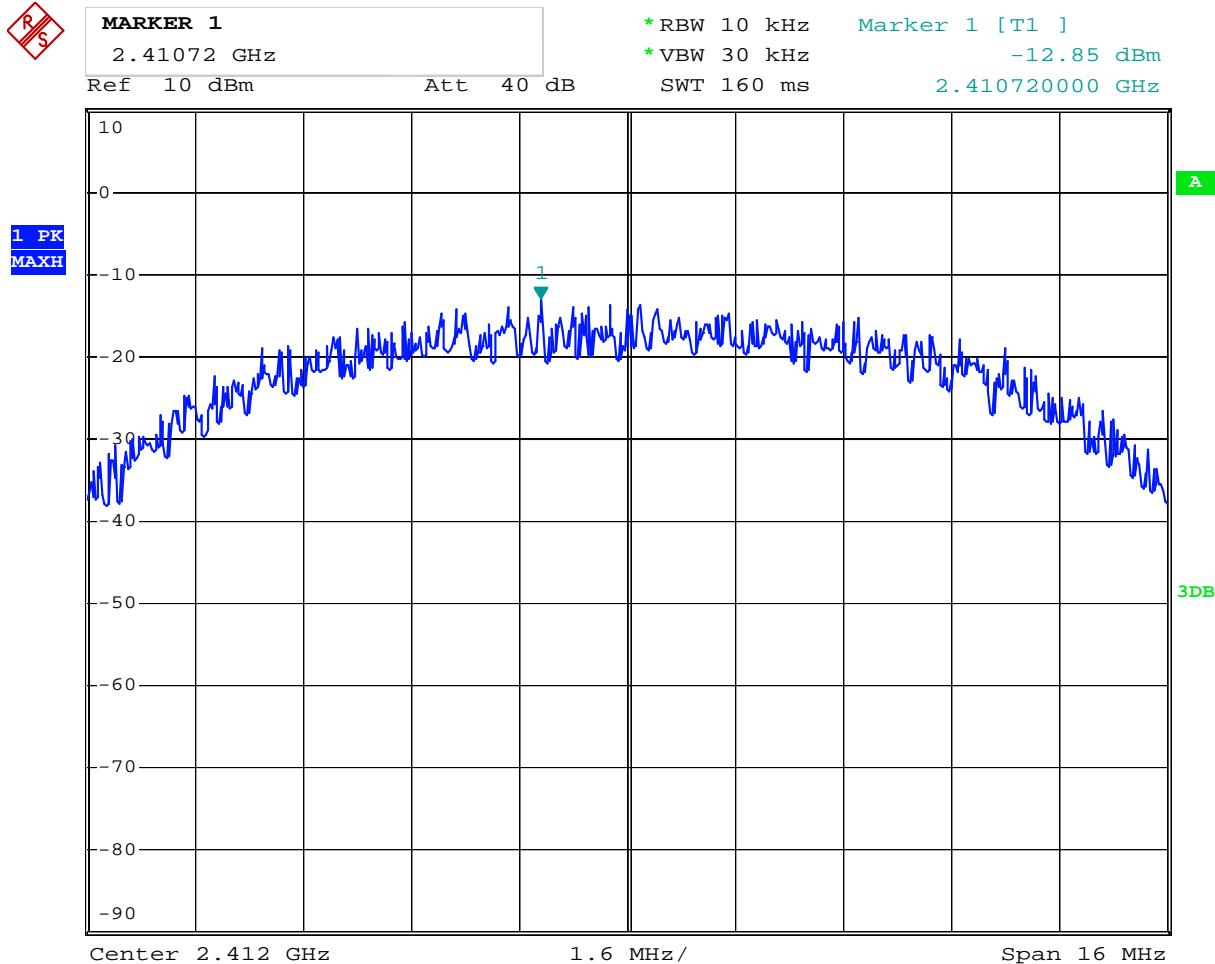


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4. 802.11b at 11Mbps of CH01

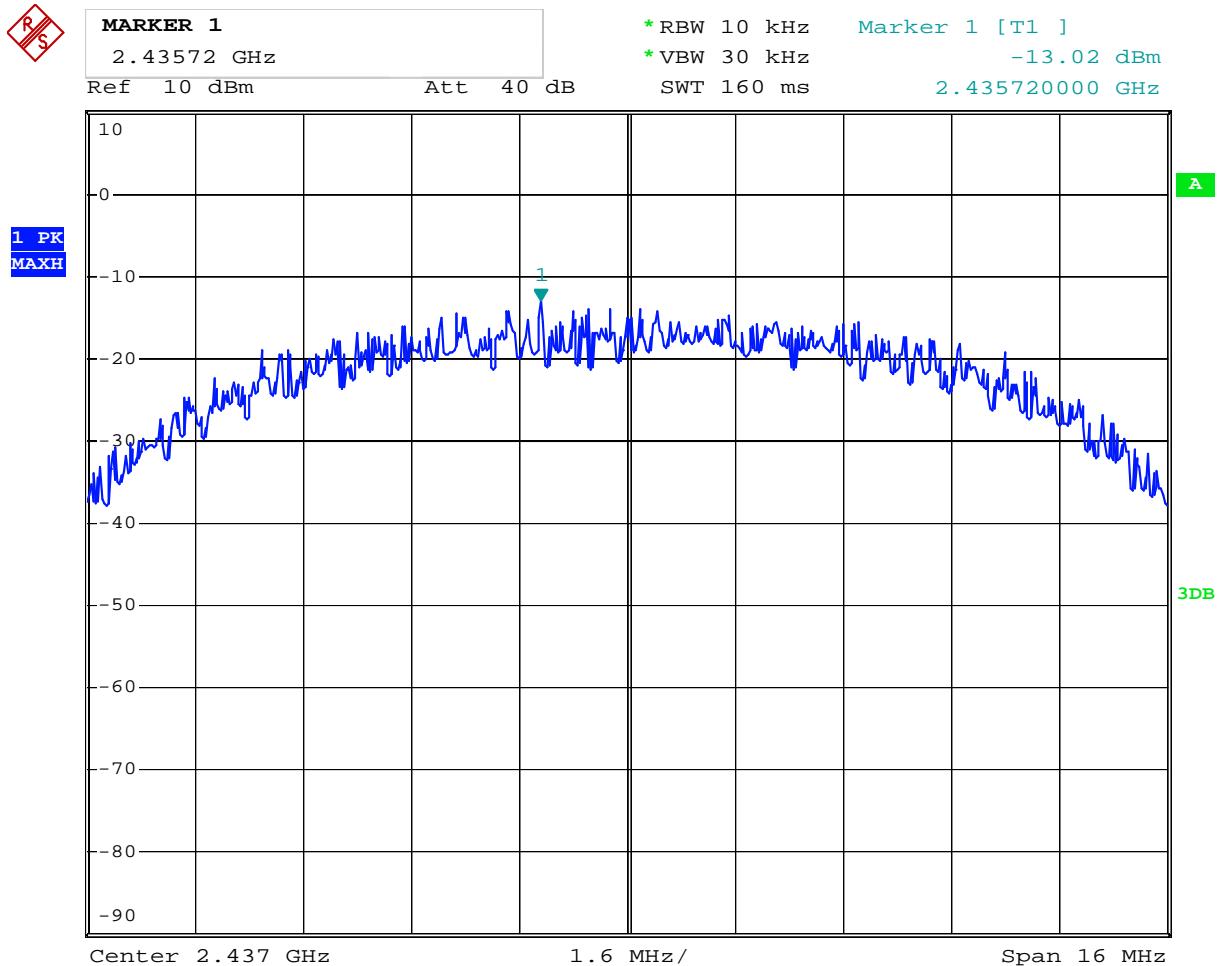


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5. 802.11b at 11Mbps of CH06

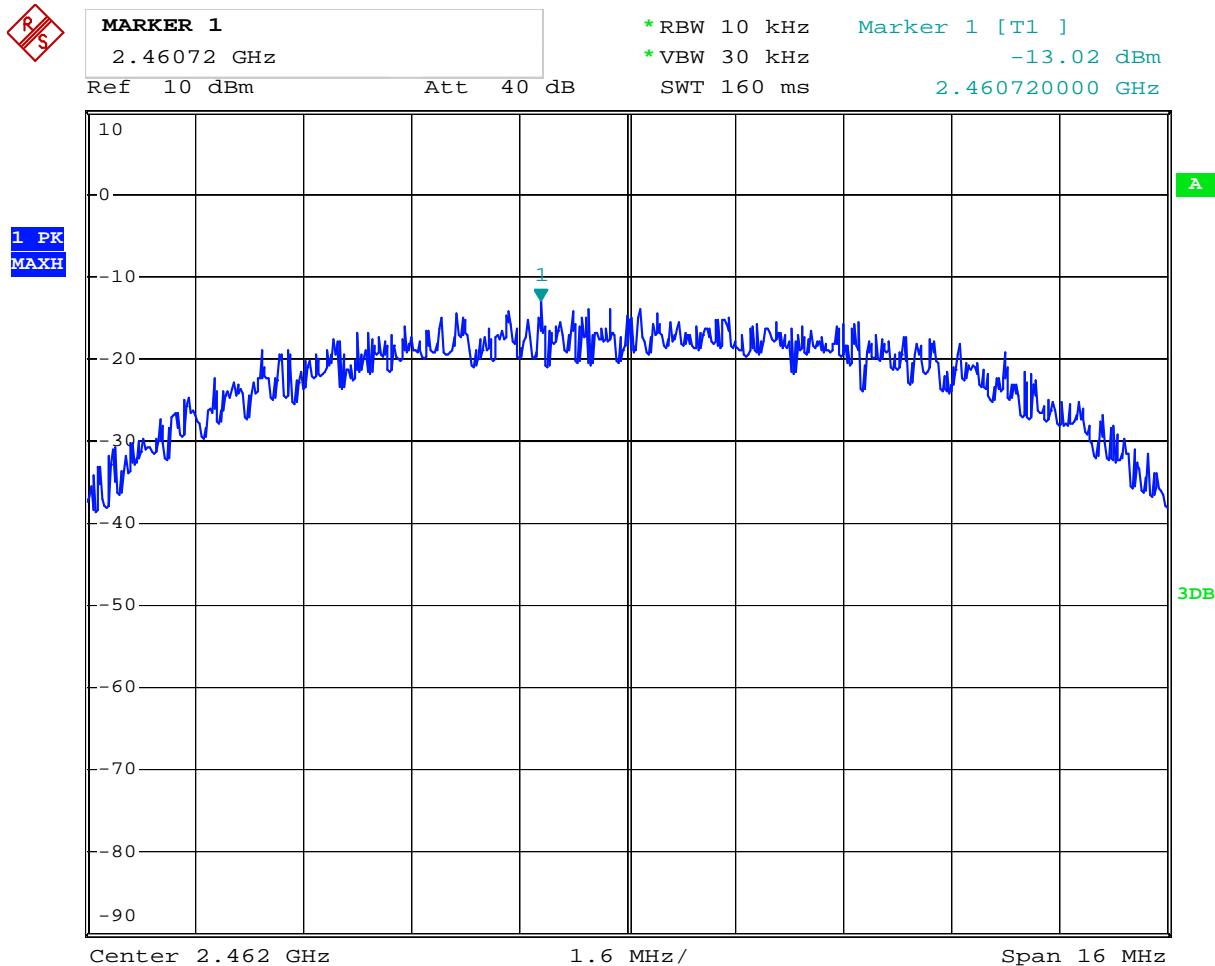


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6. 802.11b at 11Mbps of CH11

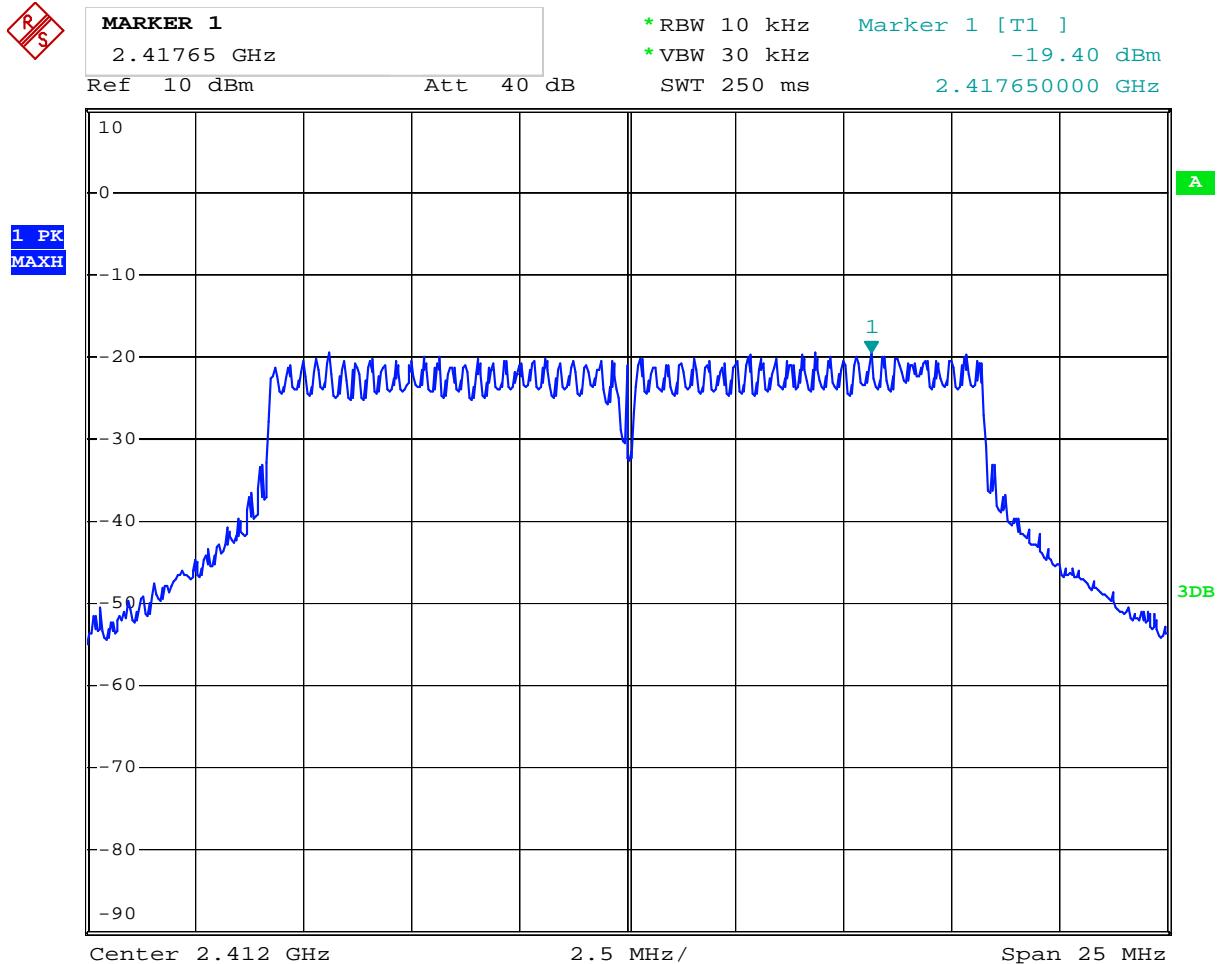


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7. 802.11g at 54Mbps of CH1

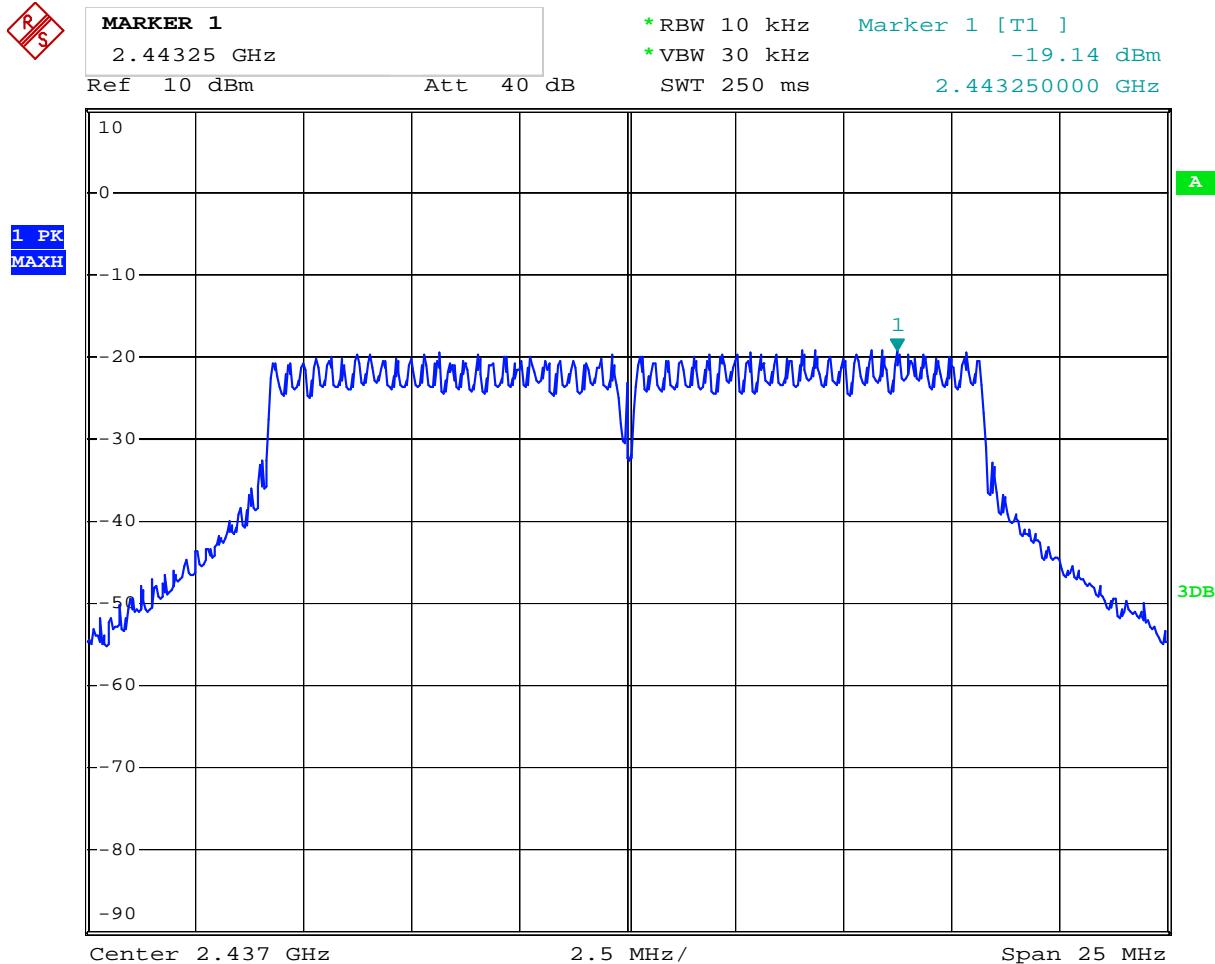


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8. 802.11g at 54Mbps of CH6

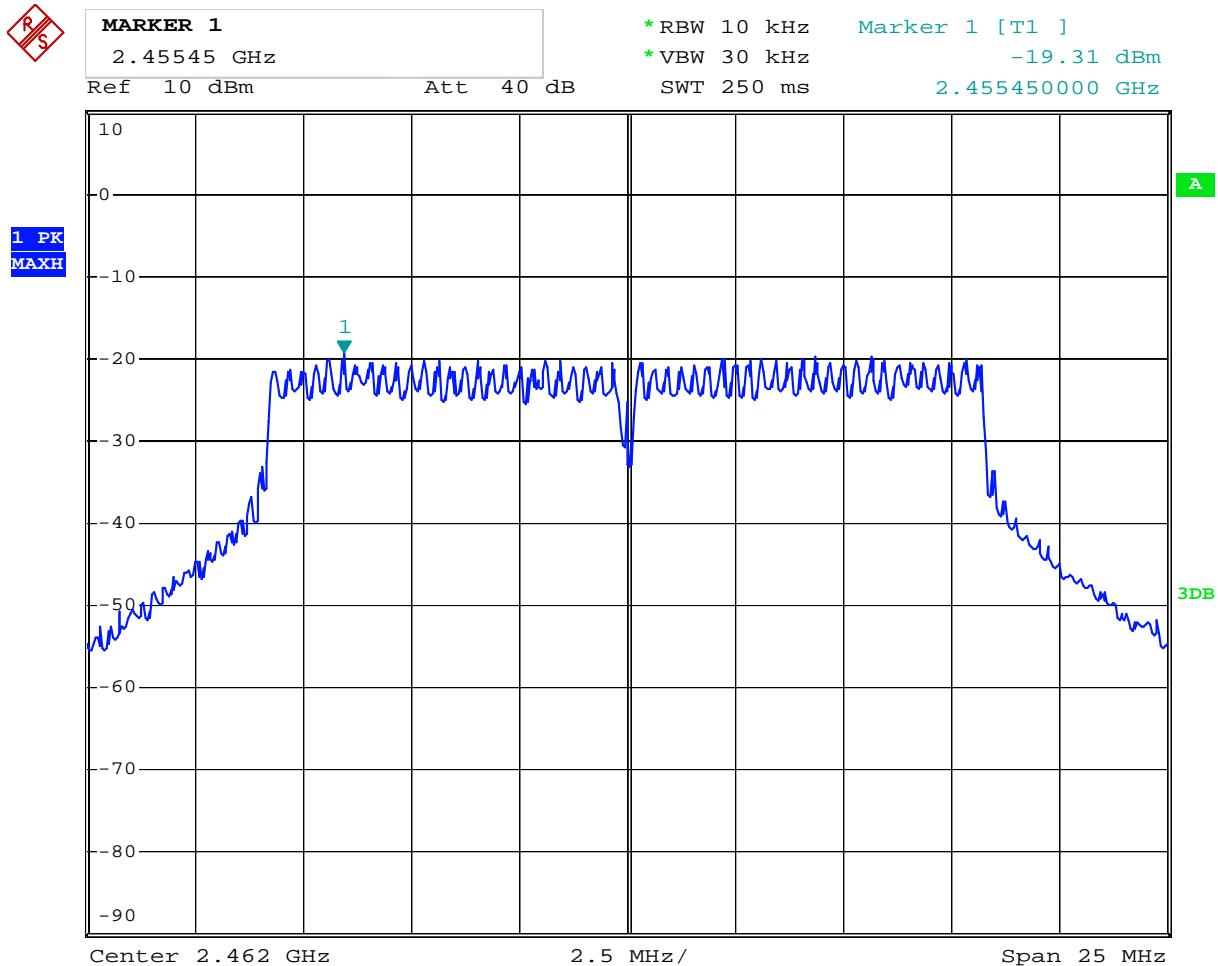


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9. 802.11g at 54Mbps of CH11

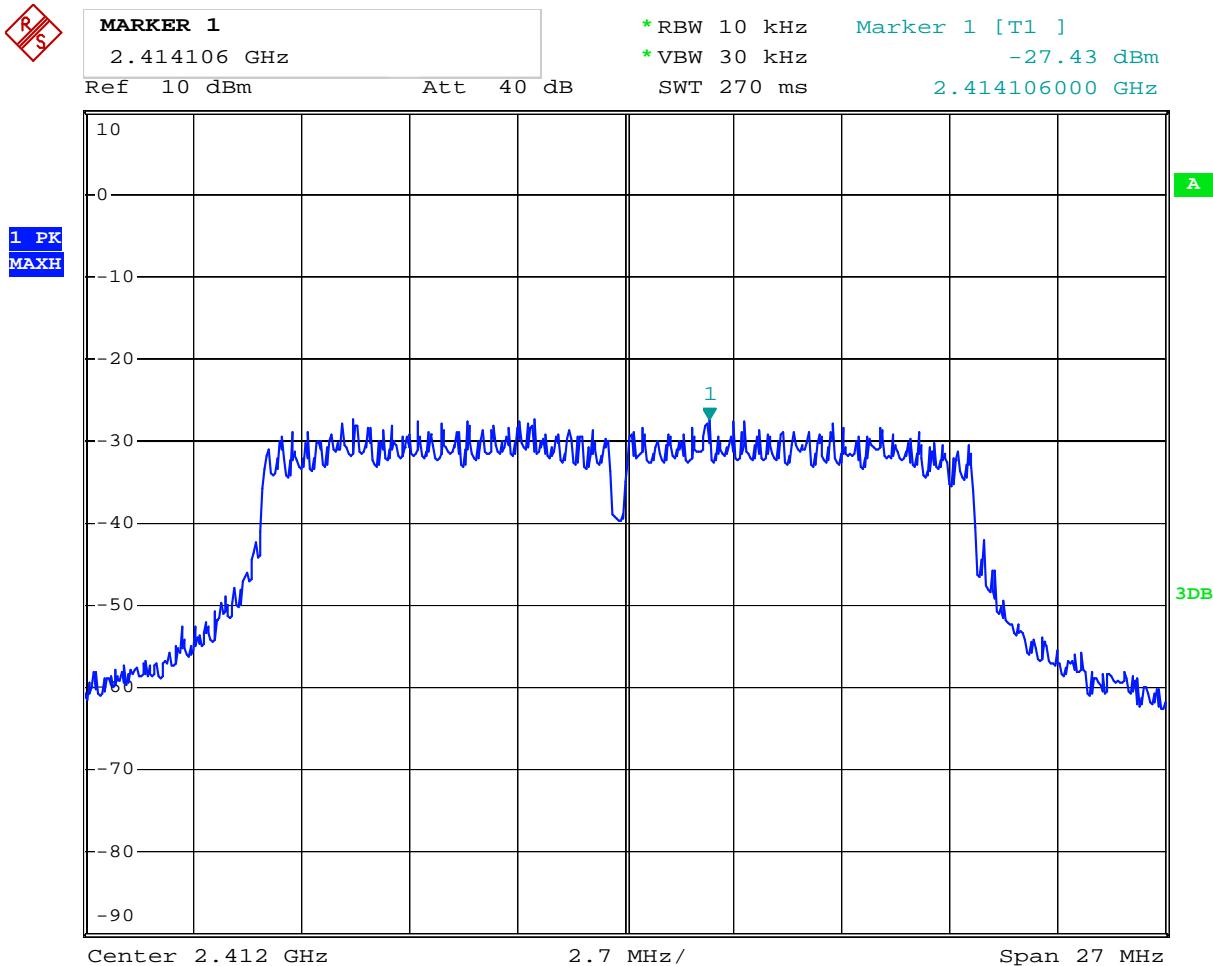


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10. 802.11n at HT20 of CH01 65Mbps

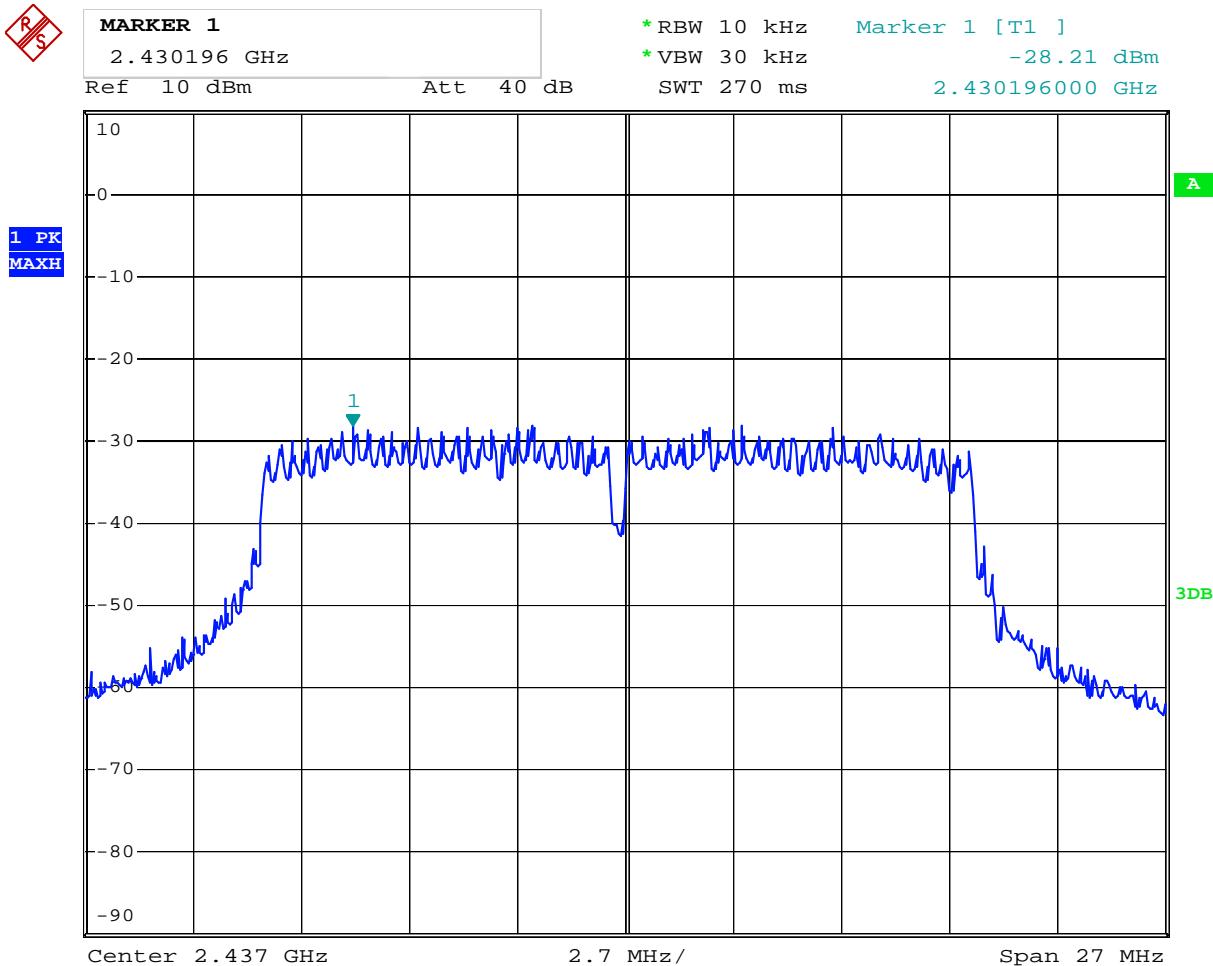


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11. 802.11n at HT20 of CH06 65Mbps

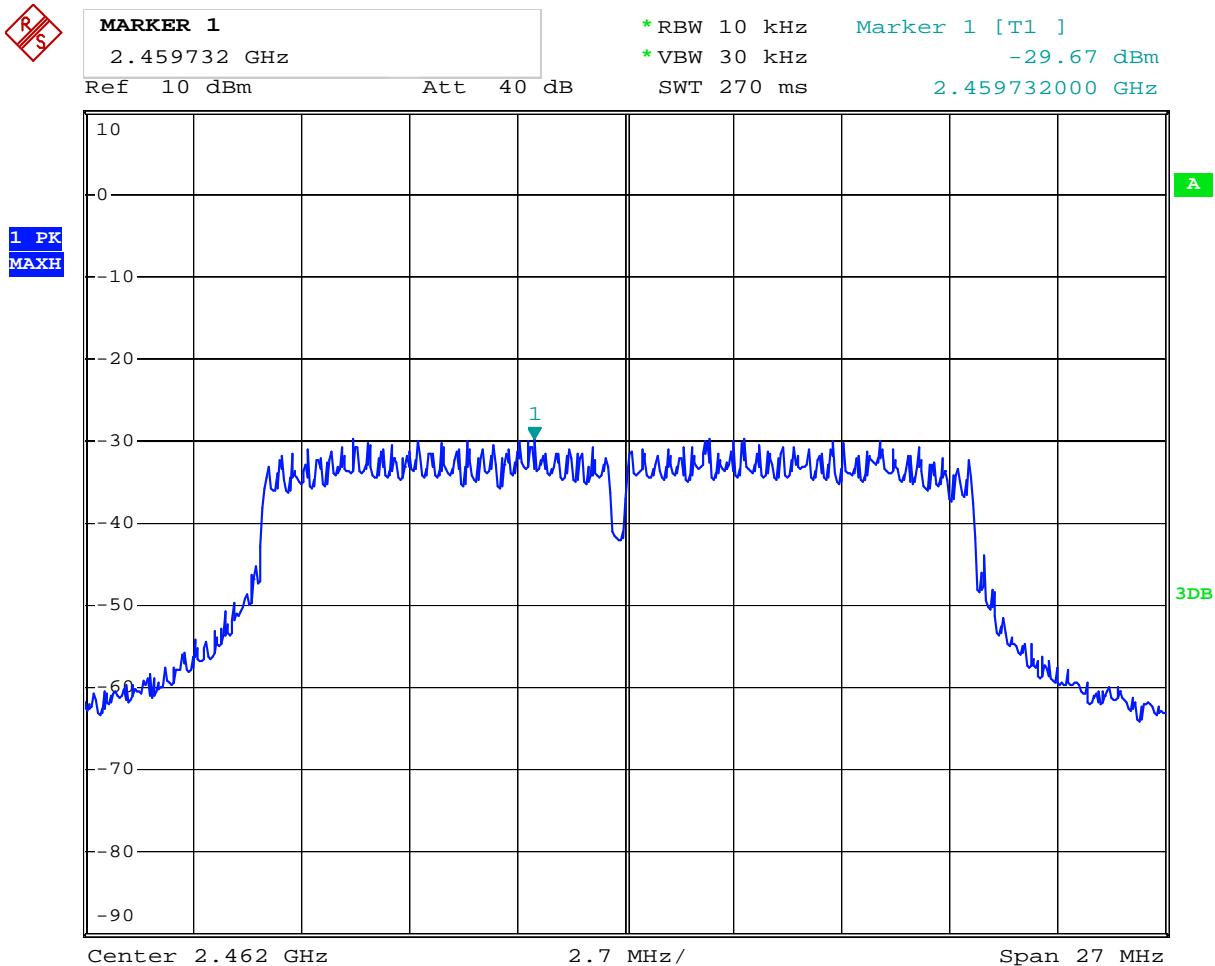


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12. 802.11n at HT20 of CH11 65Mbps

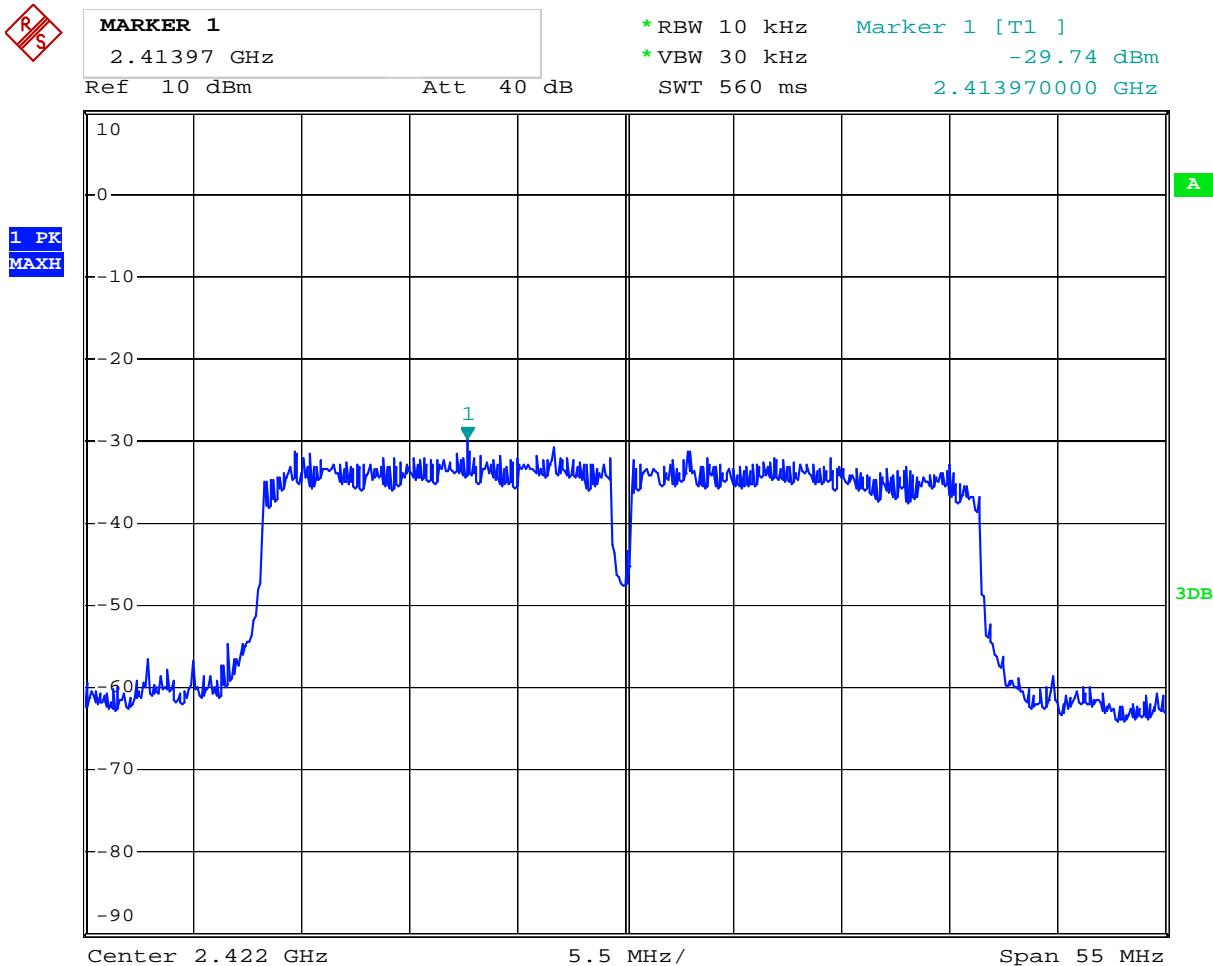


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13. 802.11n at HT40 of CH01 65Mbps

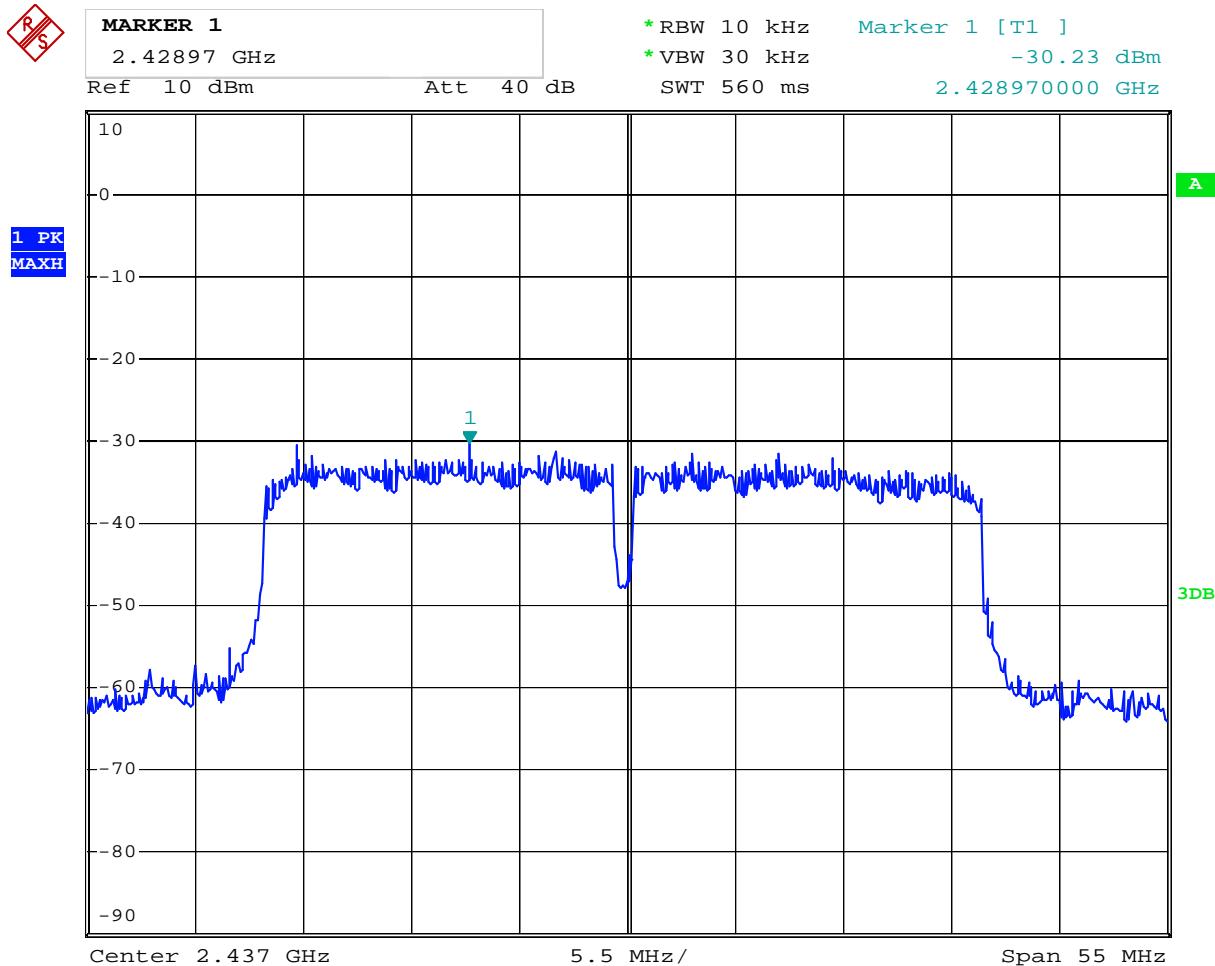


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14. 802.11n at HT40 of CH06 65Mbps

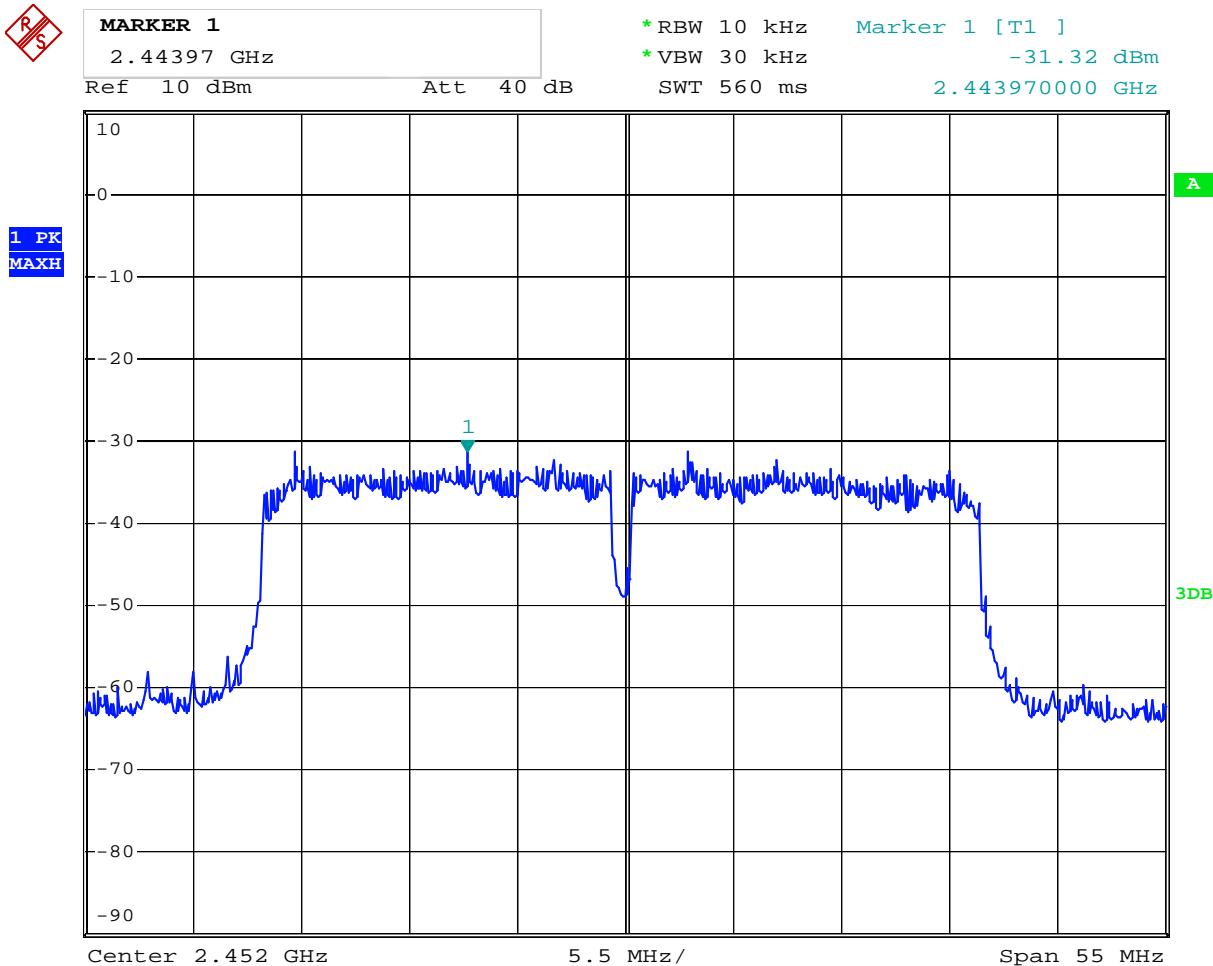


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15. 802.11n at HT40 of CH11 65Mbps



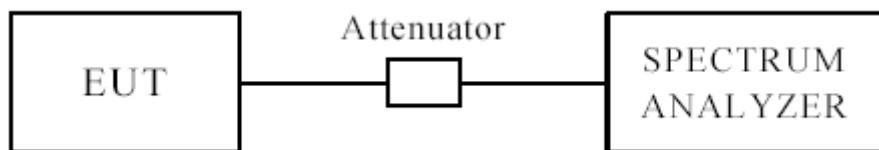
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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

### 10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.( Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

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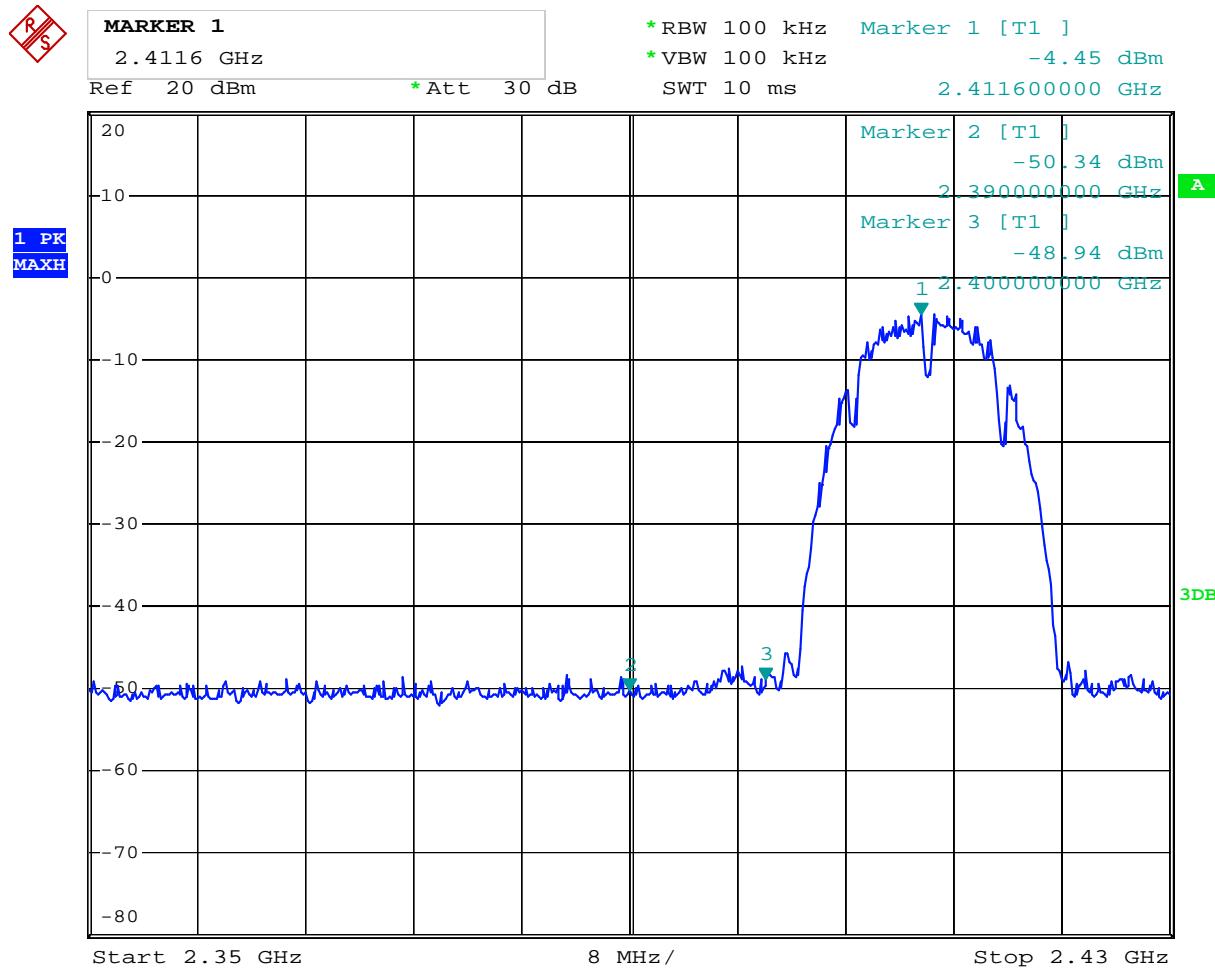
For 802.11b mode

CH01 at 1Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Humid Pity    | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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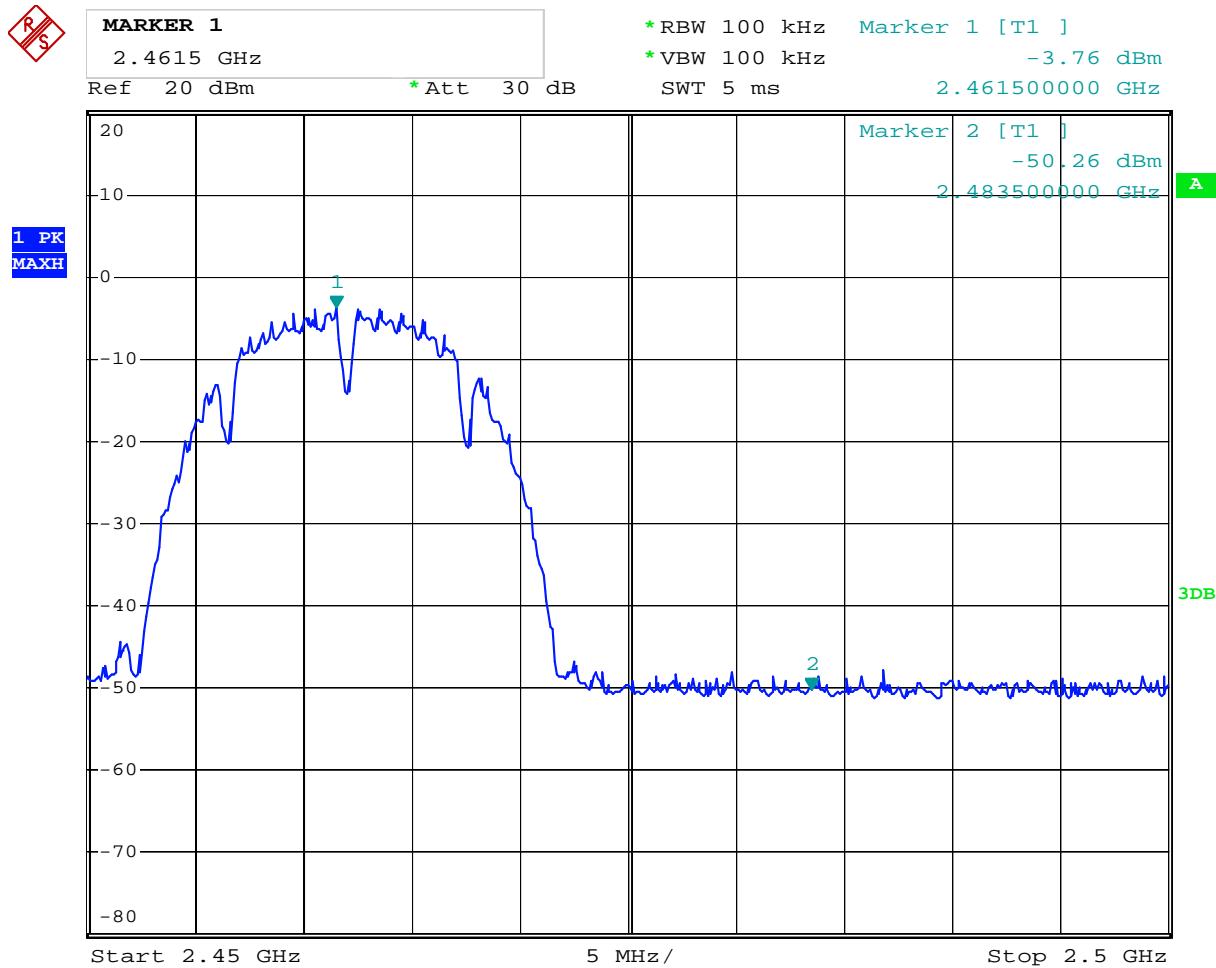
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CH11 at 1Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Humid Pity    | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



The report refers only to the sample tested and does not apply to the bulk.

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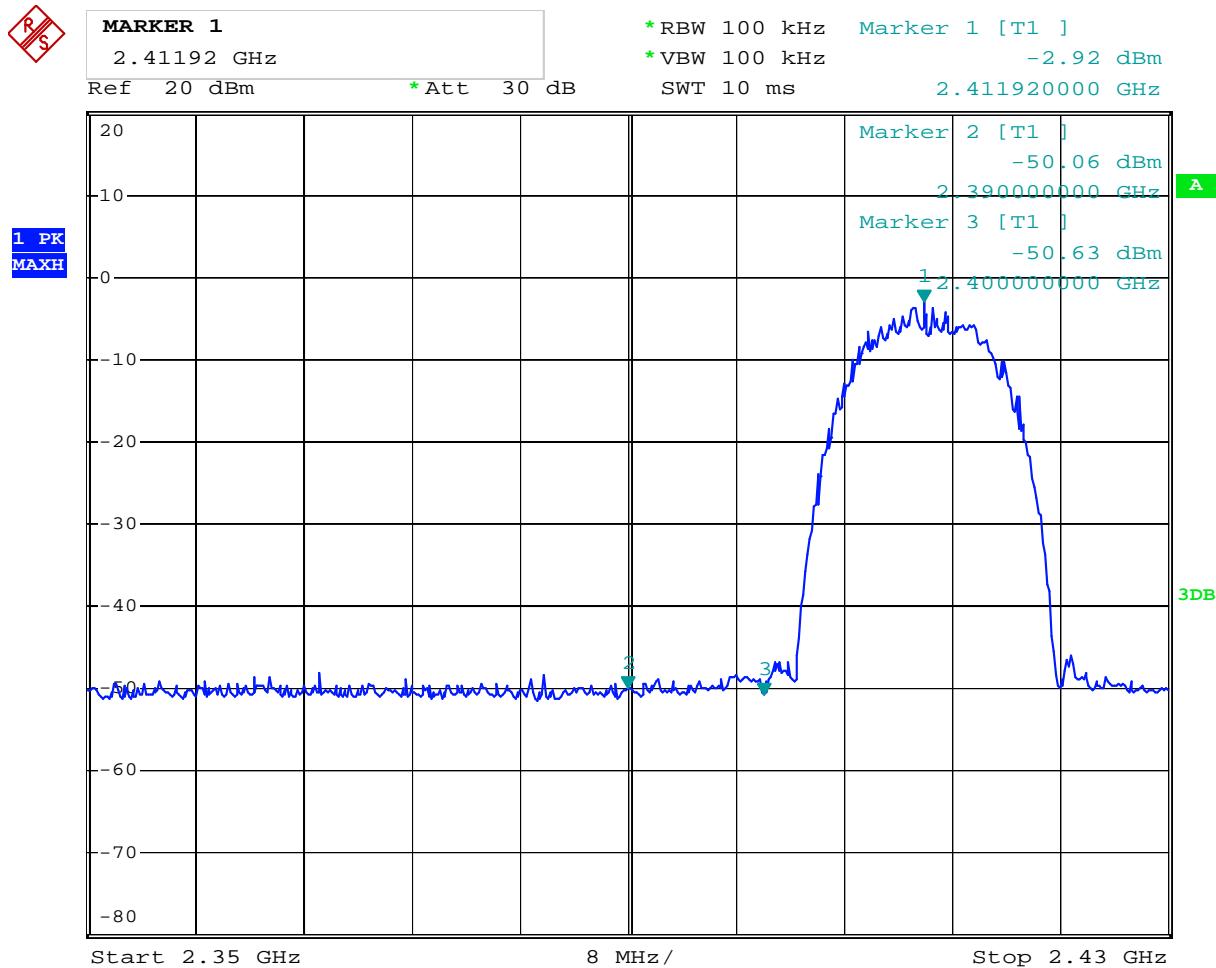
For 802.11b mode

CH01 at 11Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Humid Pity    | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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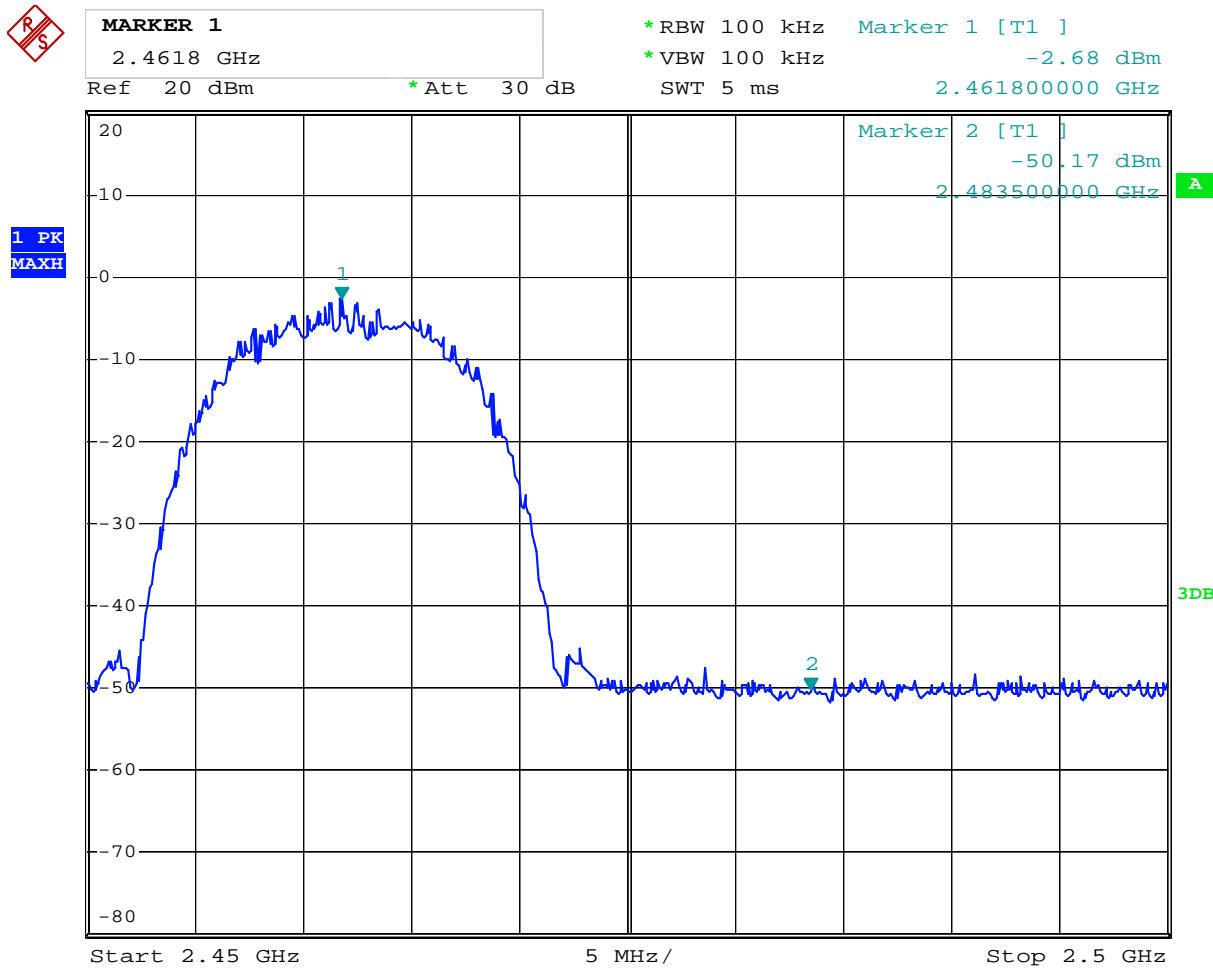
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CH11 at 11Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Hmid Pity     | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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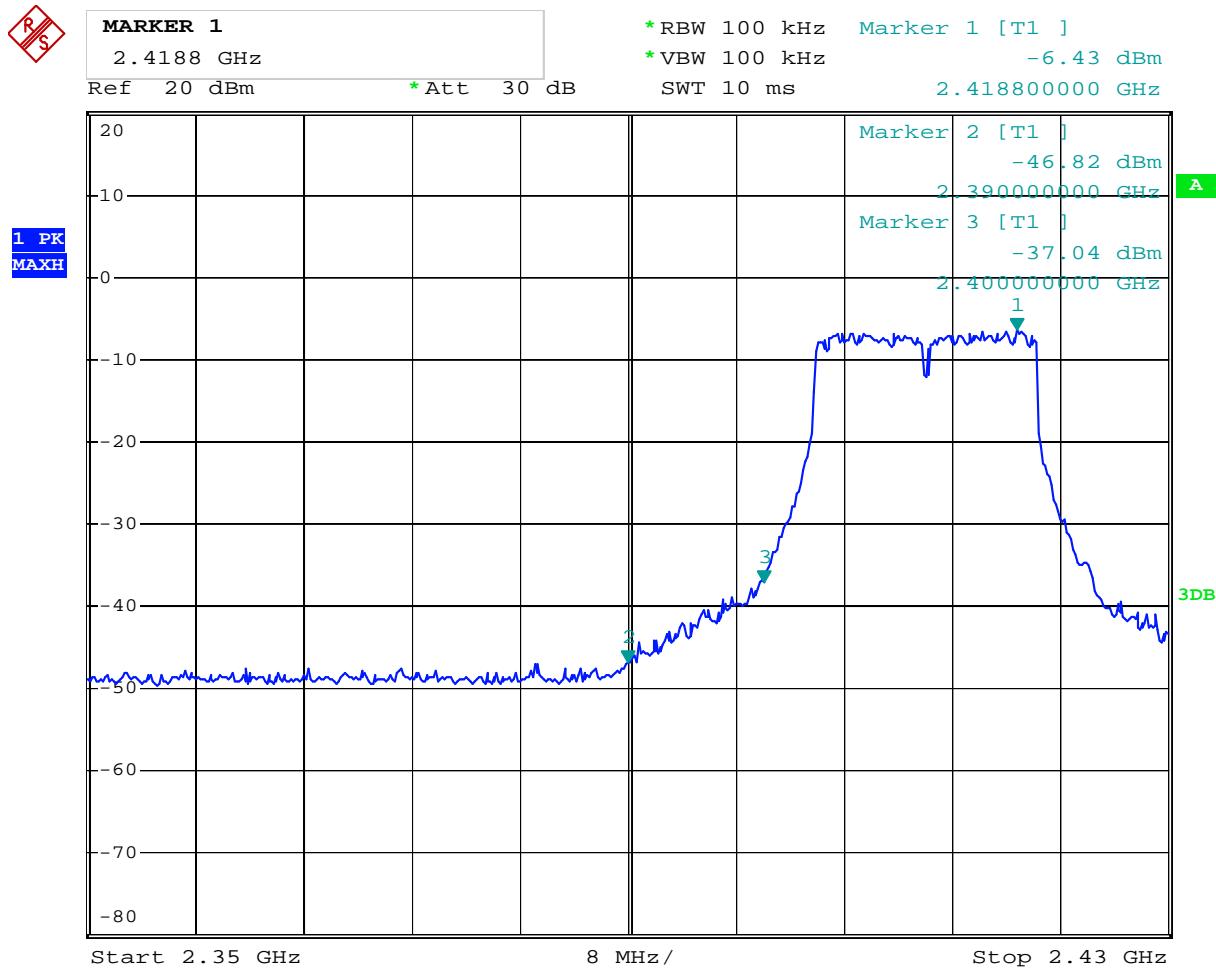
For 802.11g mode

CH01 at 54Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Humid Pity    | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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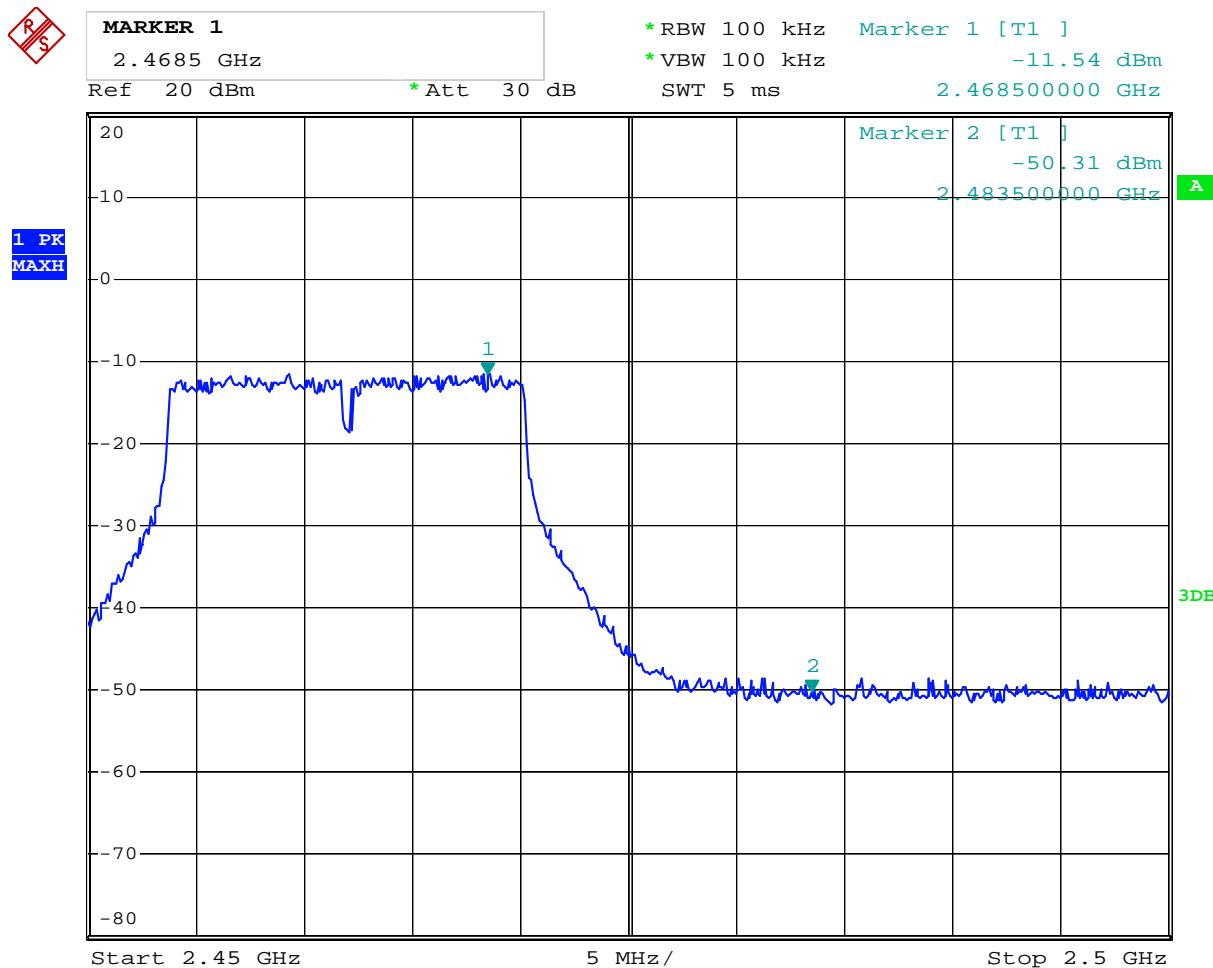
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CH11 at 54Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Hmid Pity     | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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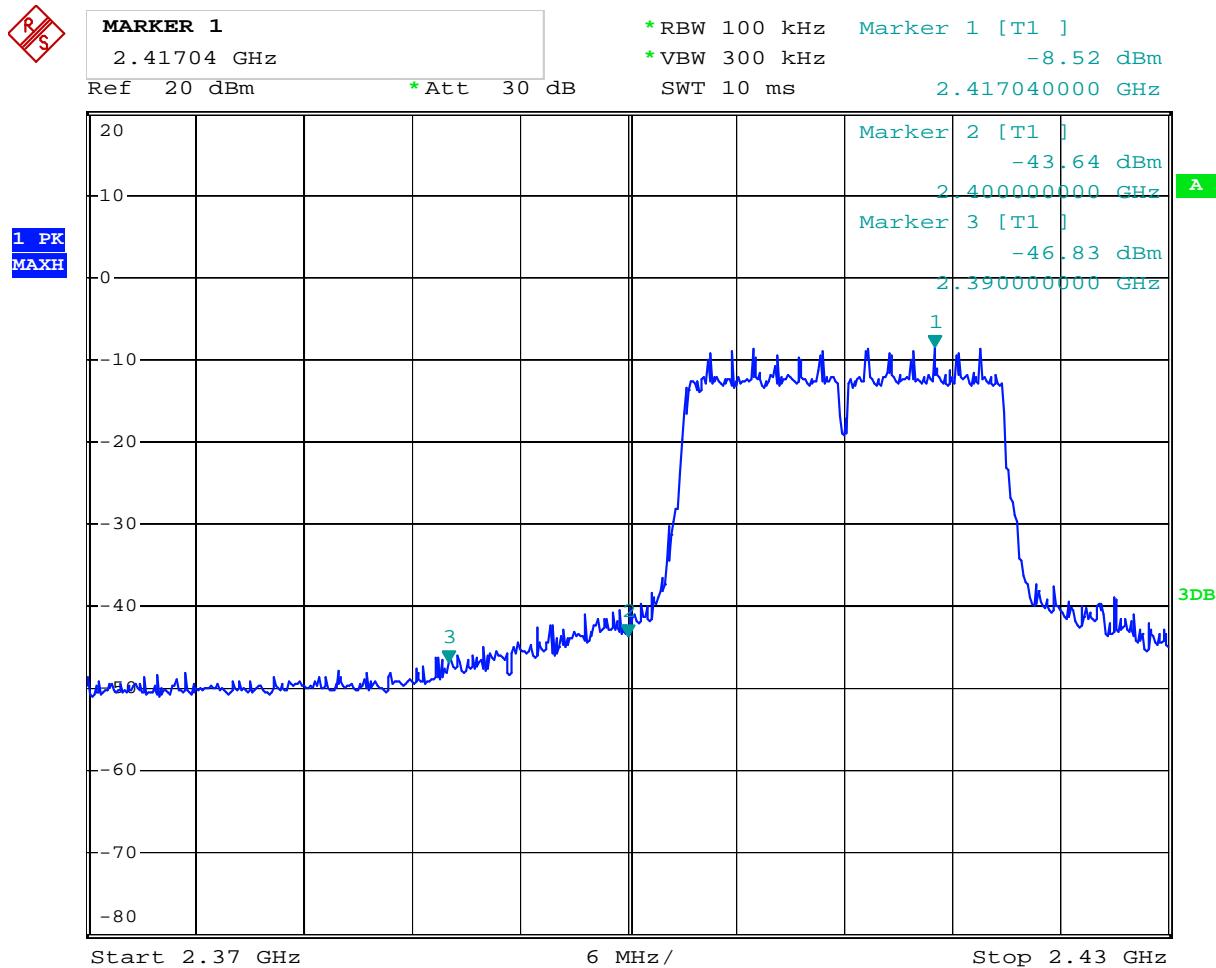
For 802.11n mode

CH01 at HT20 65Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Humid Pity    | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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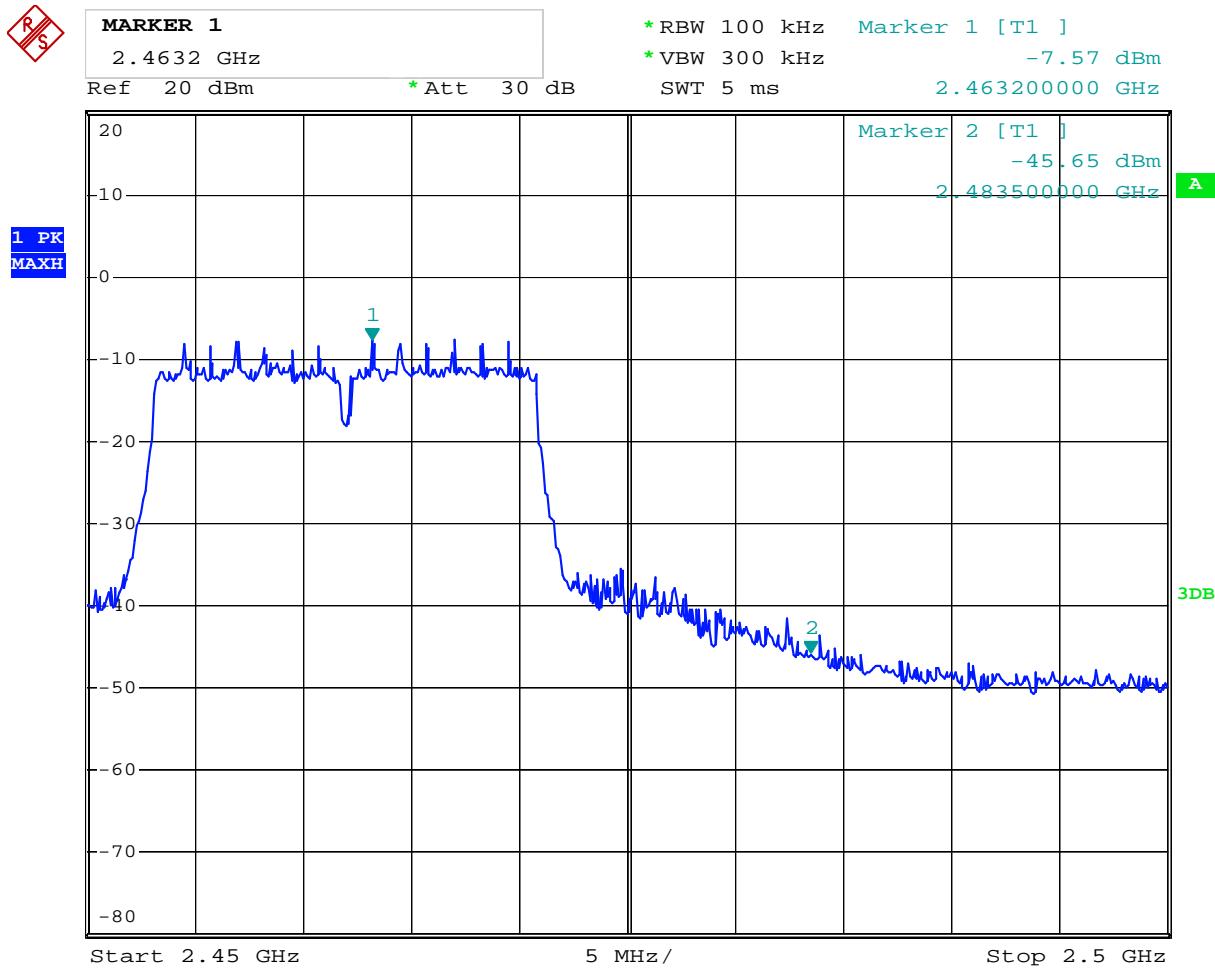
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CH11 at HT20 65Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Hmid Pity     | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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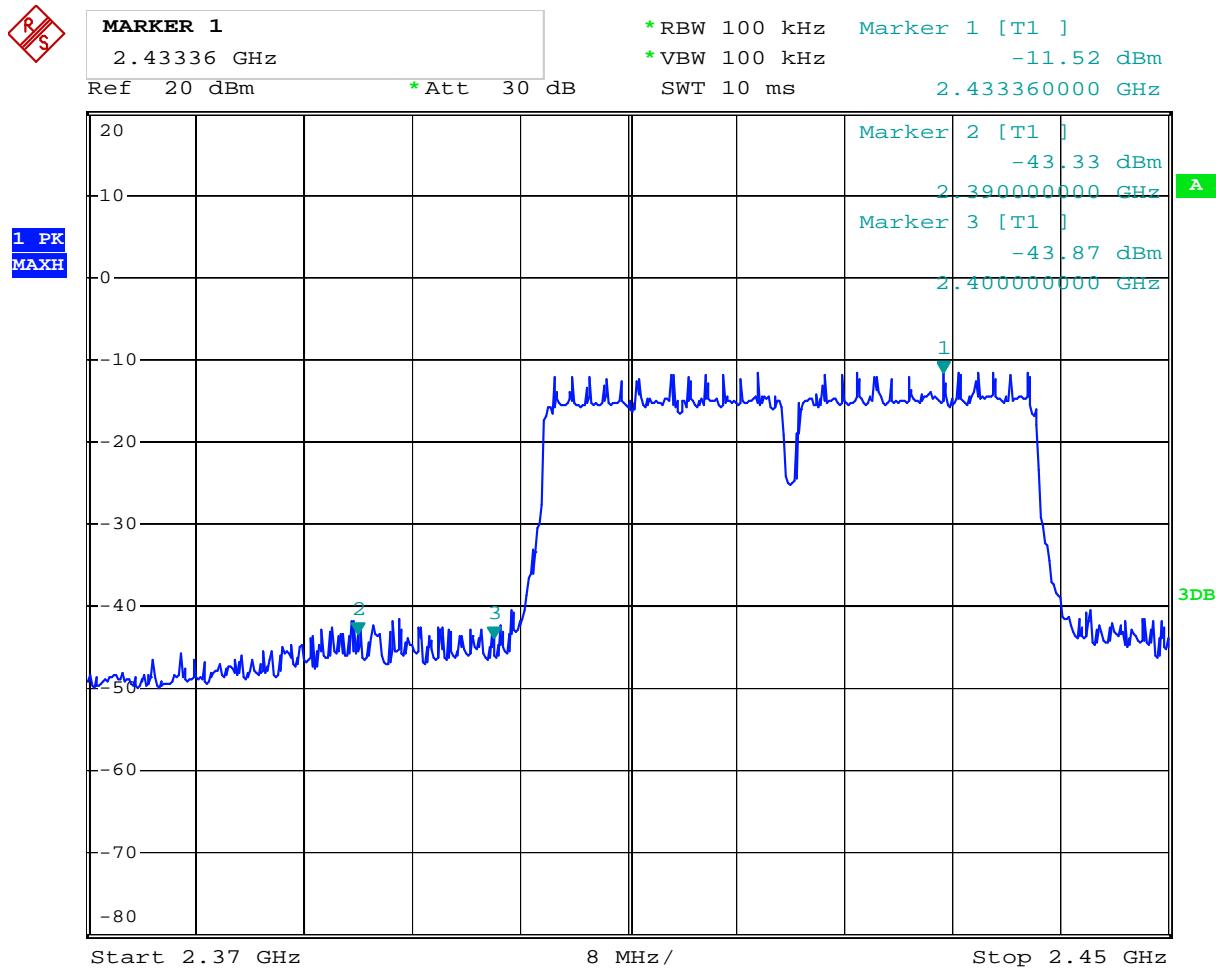
For 802.11n mode

CH01 at HT40 65Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Humid Pity    | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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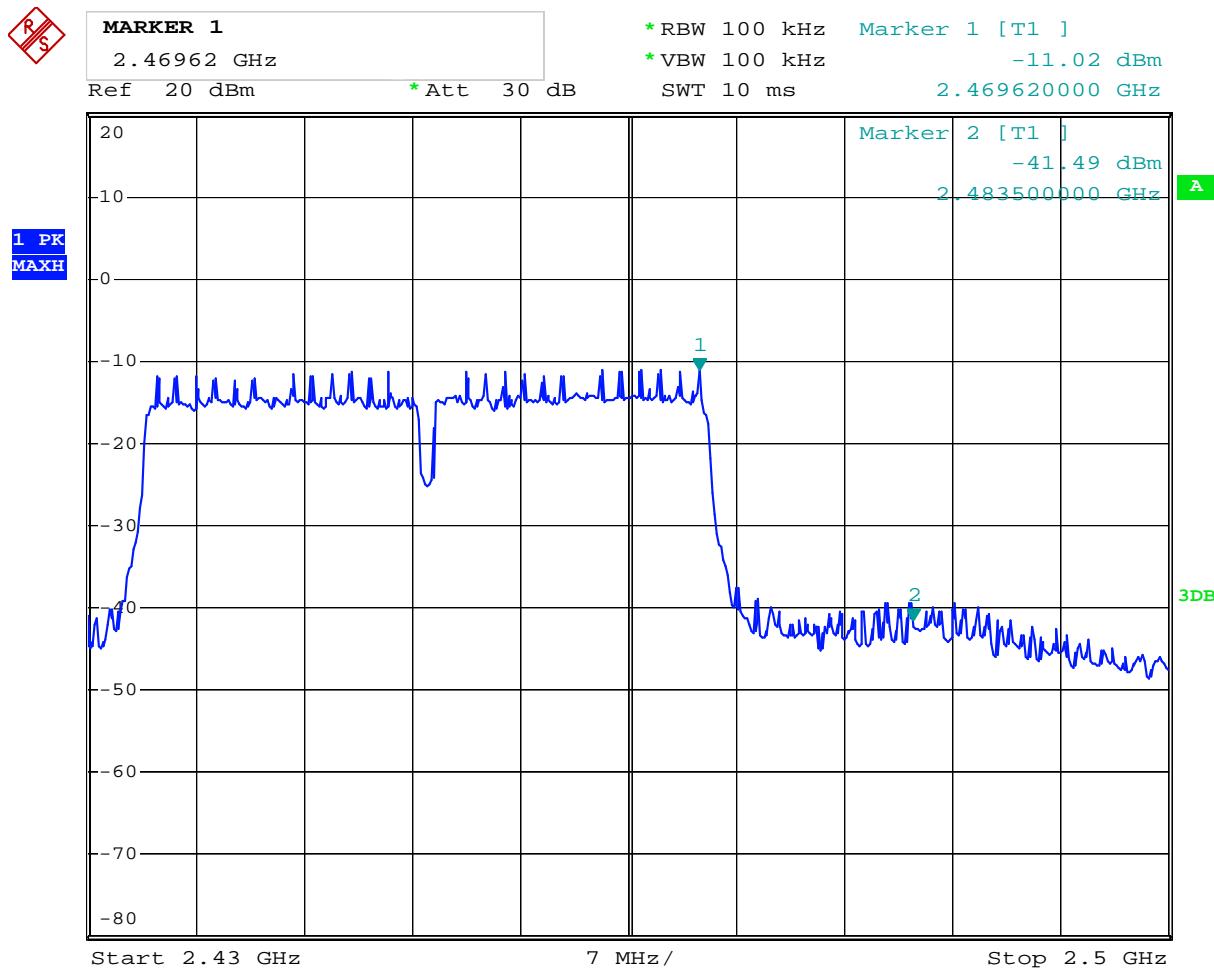
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CH11 at HT40 65Mbps

#### 10.4 Band-edge Measurement

|              |                      |               |         |
|--------------|----------------------|---------------|---------|
| Product:     | SET TOP BOX          | Model:        | LN4000  |
| Mode         | Keeping Transmitting | Input Voltage | AC 120V |
| Temperature  | 24 deg. C,           | Hmid Pity     | 56% RH  |
| Test Result: | Pass                 | Detector      | PK      |

Test Figure:



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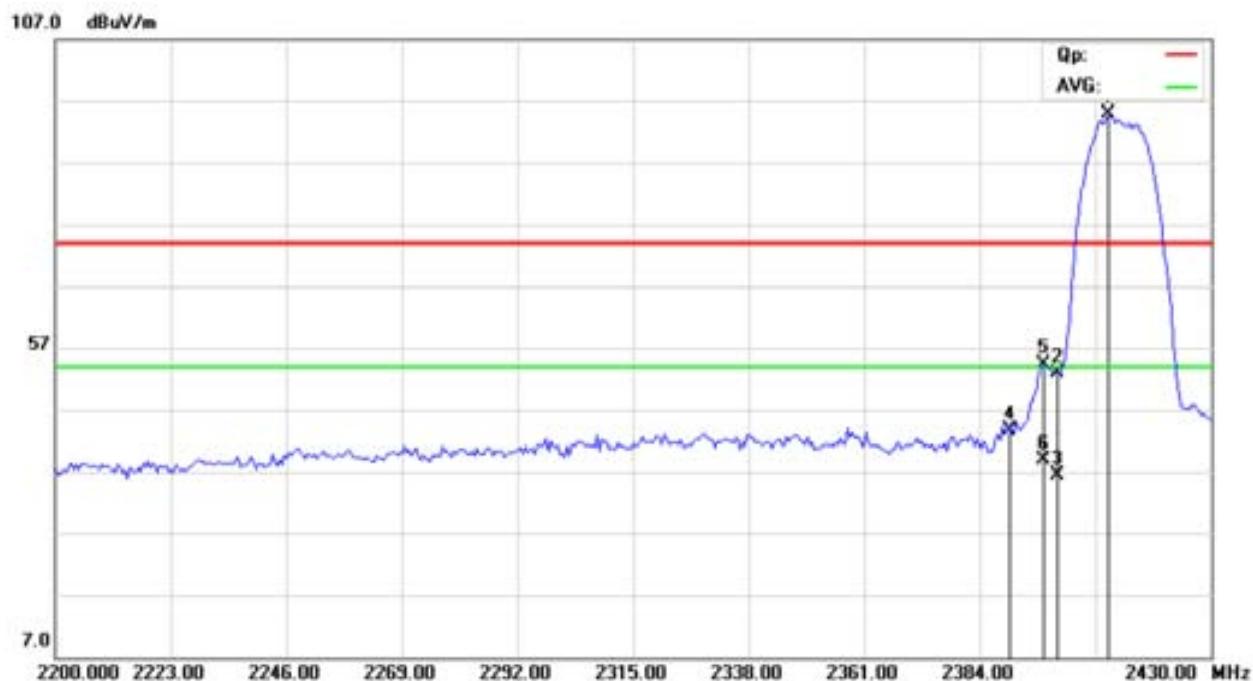
For 802.11b mode

CH01 at 11Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2400         | PK (dB $\mu$ V/m)    | 52.88 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 36.47 |               | 54(dB $\mu$ V/m) |
| 2397         | PK (dB $\mu$ V/m)    | 54.45 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 38.91 |               | 54(dB $\mu$ V/m) |
| 2390         | PK (dB $\mu$ V/m)    | 43.65 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |

#### Test Figure: Horizontal



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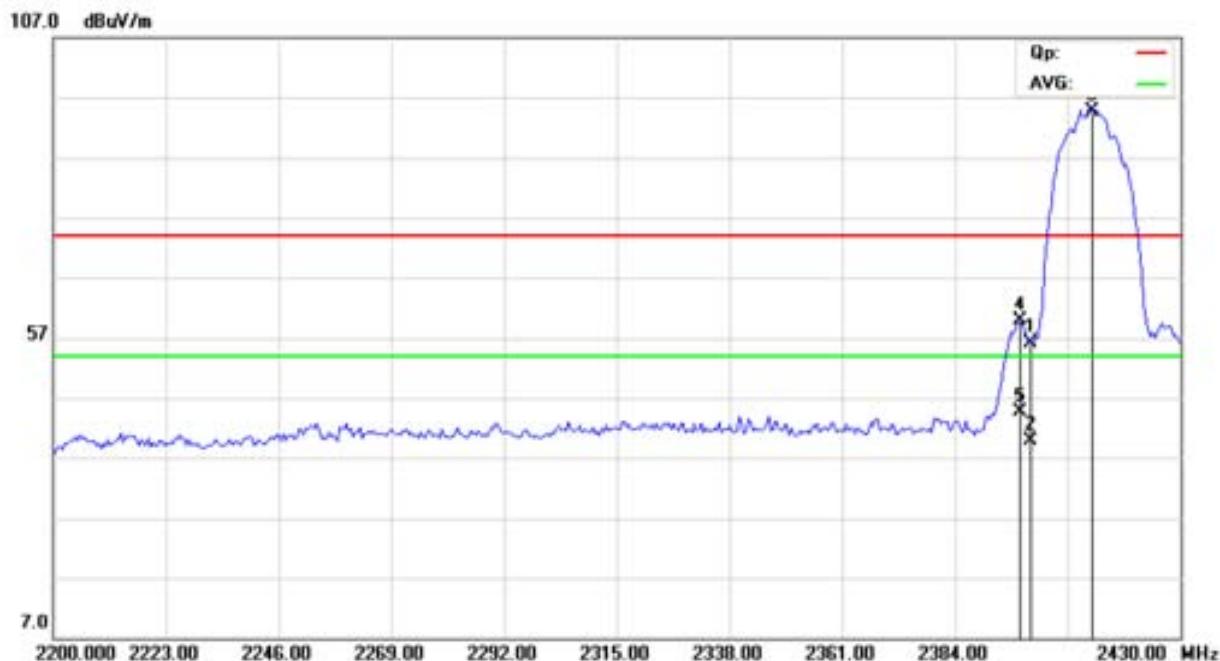
For 802.11b mode

CH01 at 11Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2400         | PK (dB $\mu$ V/m)    | 56.11 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 39.82 |               | 54(dB $\mu$ V/m) |
| 2397         | PK (dB $\mu$ V/m)    | 59.89 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 44.51 |               | 54(dB $\mu$ V/m) |

Test Figure: Vertical



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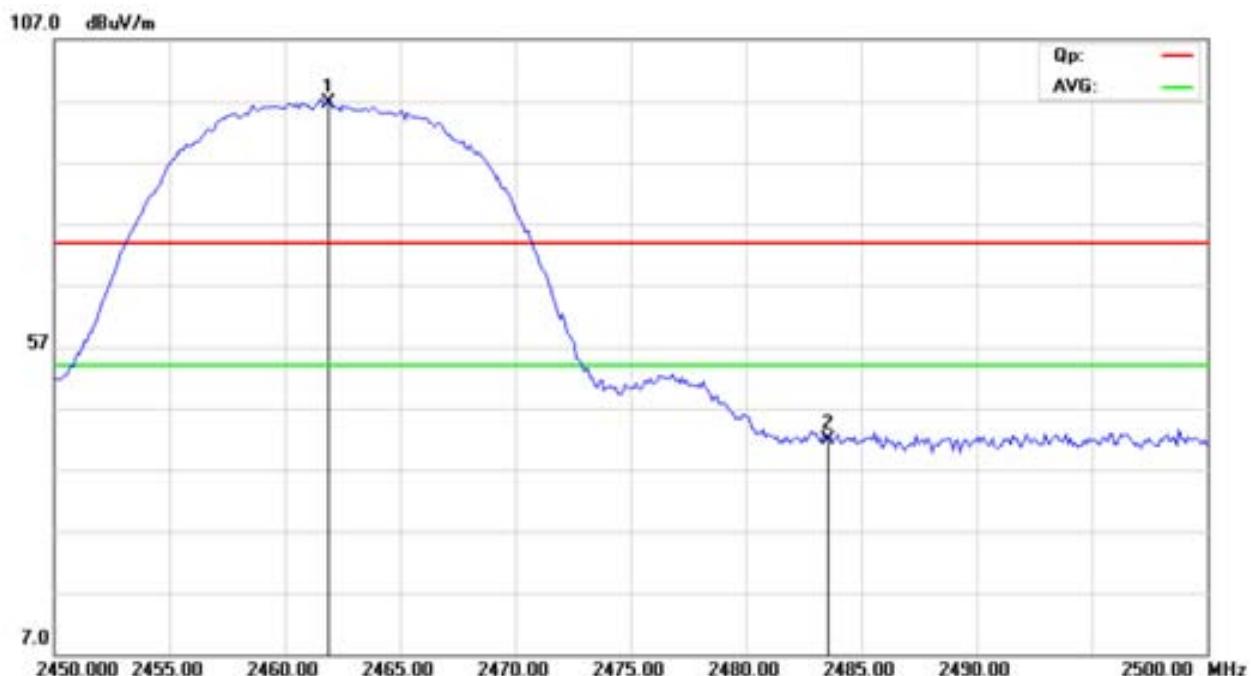
For 802.11b mode

CH11 at 11Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 41.90 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |

Test Figure: Vertical



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For 802.11b mode

CH11 at 11Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 38.57 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |

#### Test Figure: Horizontal



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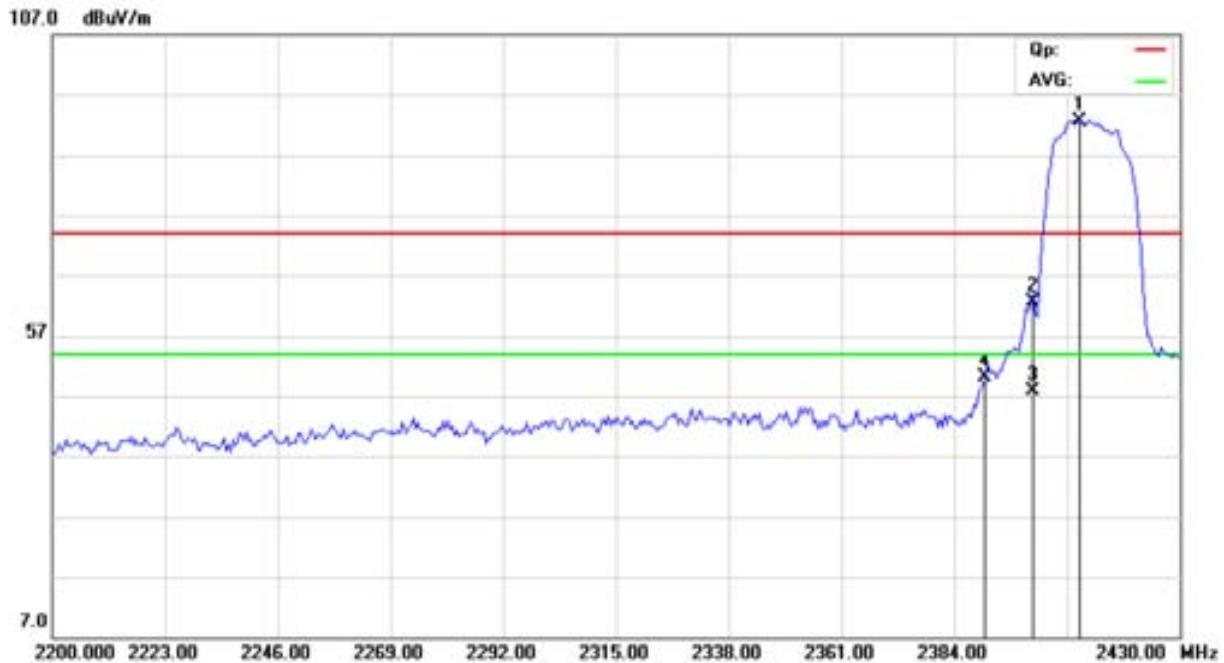
For 802.11g mode

CH01 at 54Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2390.000     | PK (dB $\mu$ V/m)    | 50.18 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |
| 2400.000     | PK (dB $\mu$ V/m)    | 62.63 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 47.92 |               | 54(dB $\mu$ V/m) |

Test Figure: Horizontal



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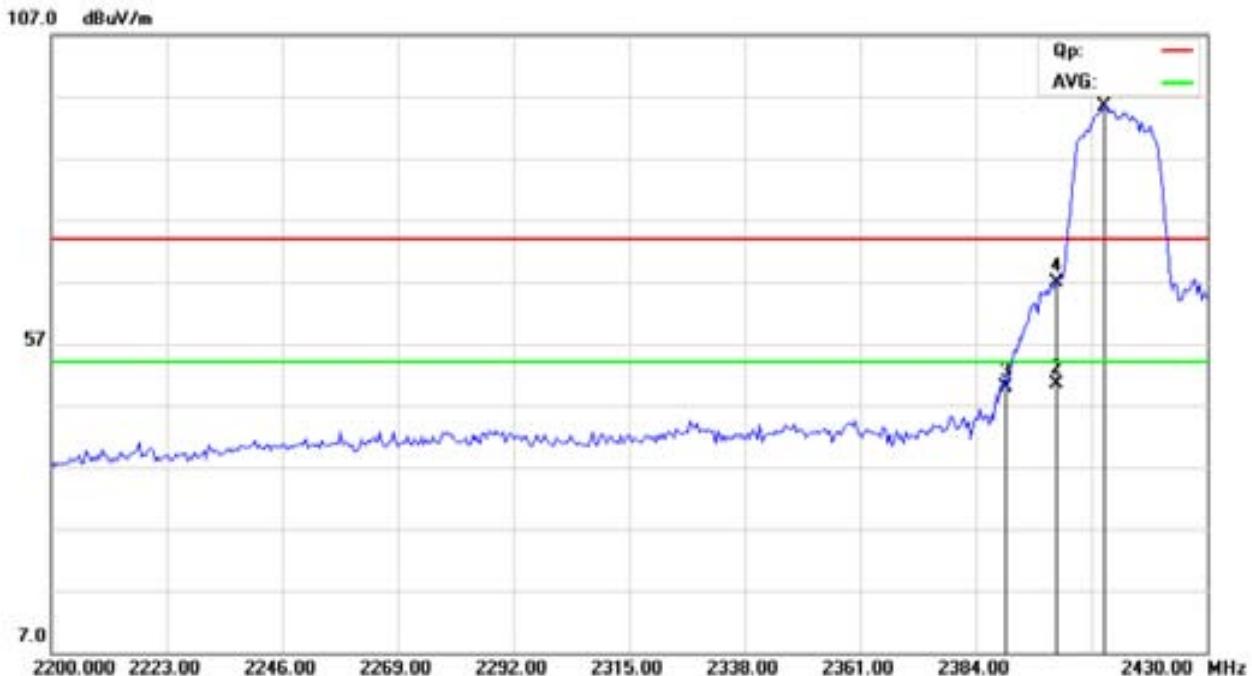
For 802.11g mode

CH01 at 54Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2390.000     | PK (dB $\mu$ V/m)    | 49.86 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |
| 2400.000     | PK (dB $\mu$ V/m)    | 66.78 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 50.45 |               | 54(dB $\mu$ V/m) |

Test Figure: Vertical



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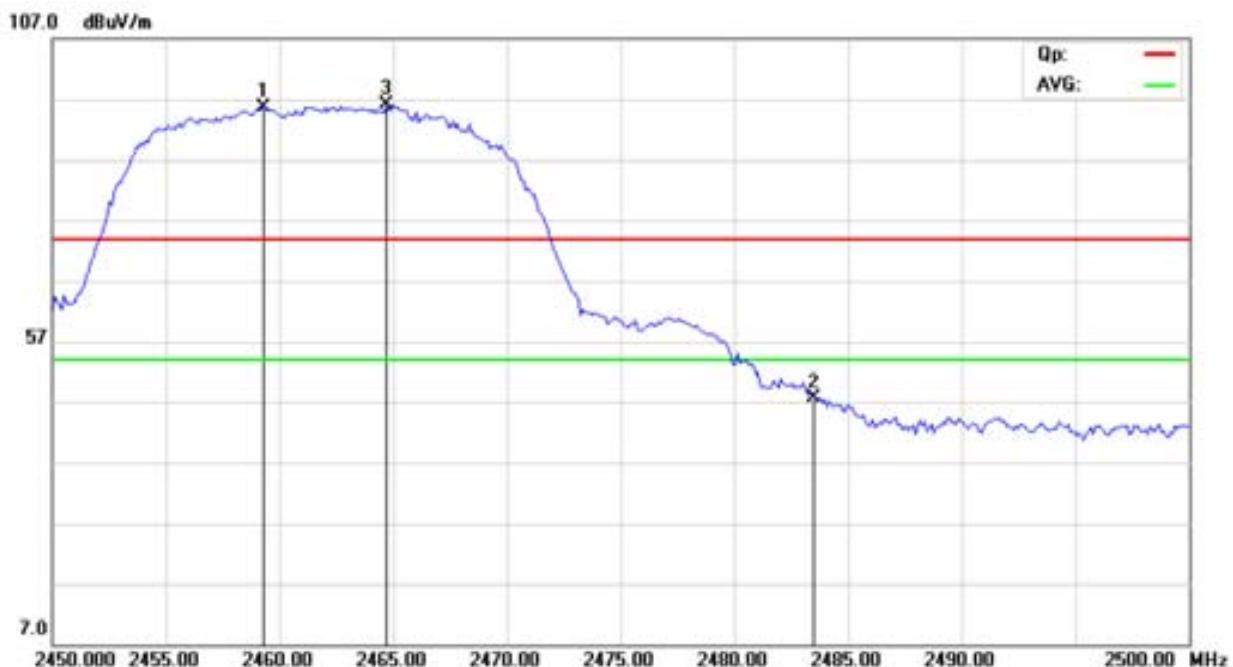
For 802.11g mode

CH11 at 54Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 47.62 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |

Test Figure: Vertical



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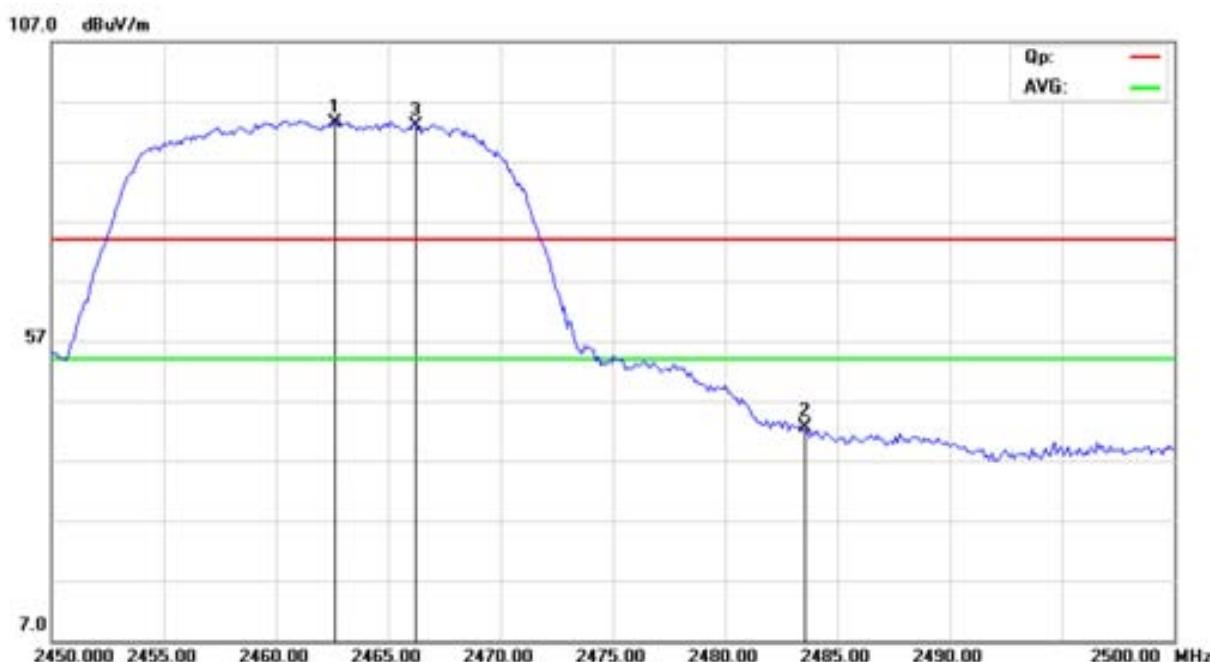
For 802.11g mode

CH11 at 54Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 42.68 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |

#### Test Figure: Horizontal



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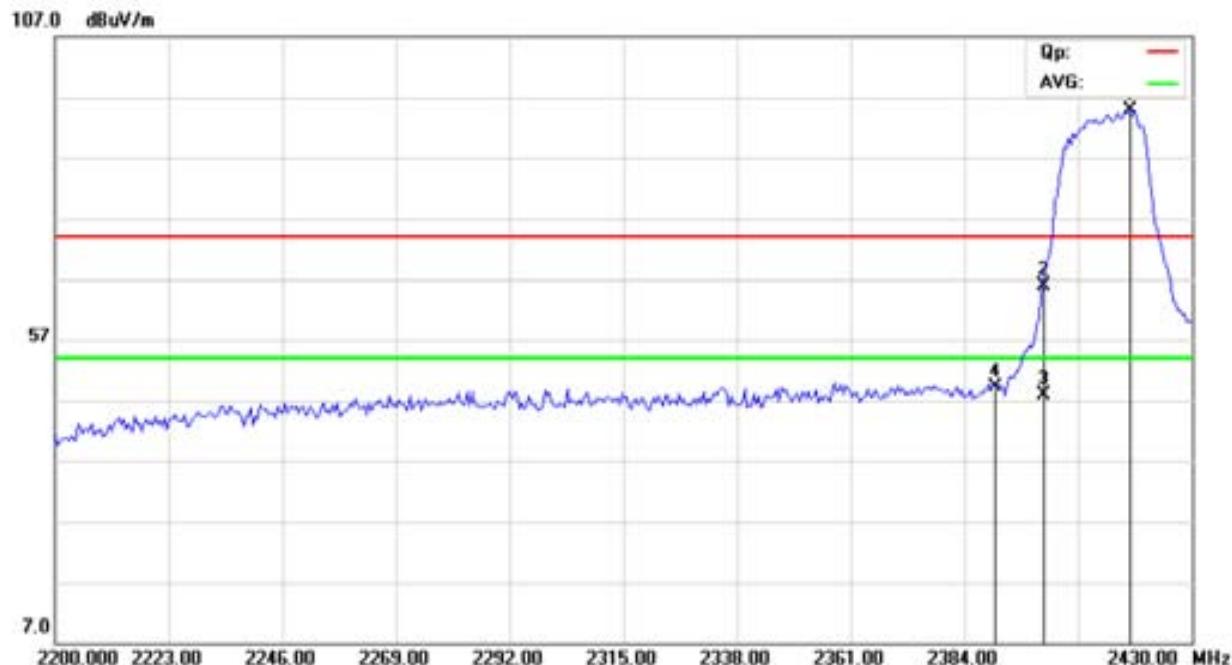
For 802.11n mode

CH01 at 11n HT20 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2390.000     | PK (dB $\mu$ V/m)    | 49.19 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |
| 2400.000     | PK (dB $\mu$ V/m)    | 65.89 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 47.85 |               | 54(dB $\mu$ V/m) |

**Test Figure: Horizontal**



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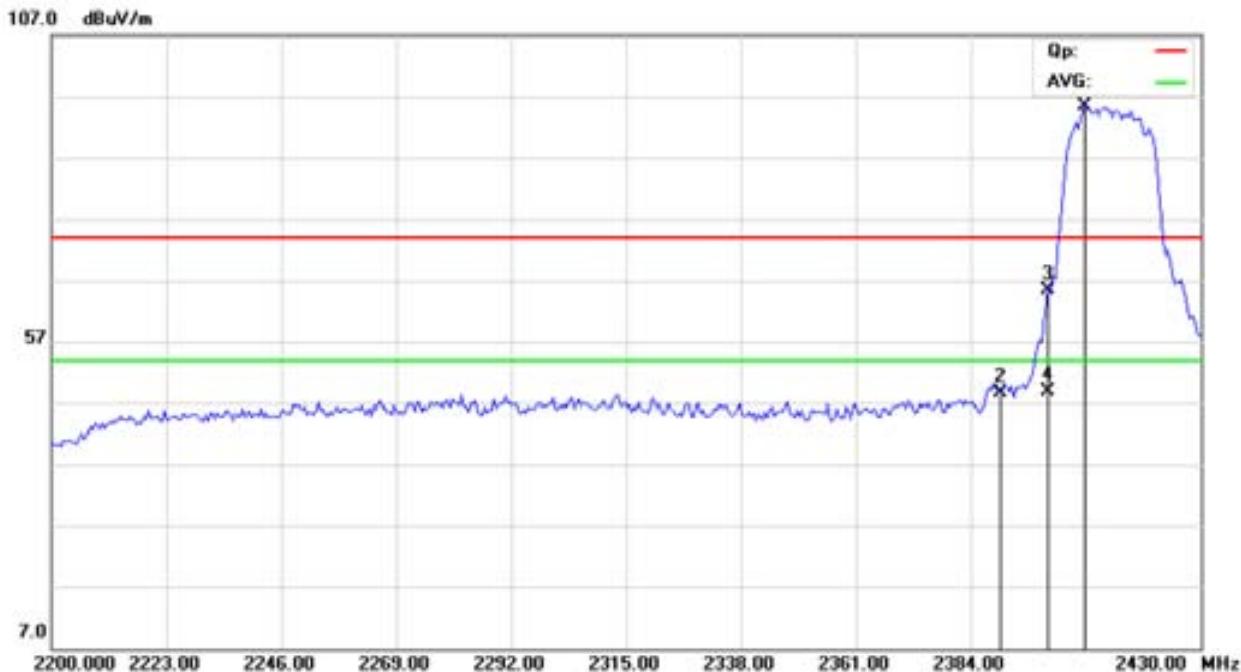
For 802.11n mode

CH01 at 11n HT20 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2390.000     | PK (dB $\mu$ V/m)    | 48.57 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |
| 2400.000     | PK (dB $\mu$ V/m)    | 65.37 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 48.88 |               | 54(dB $\mu$ V/m) |

Test Figure: Vertical



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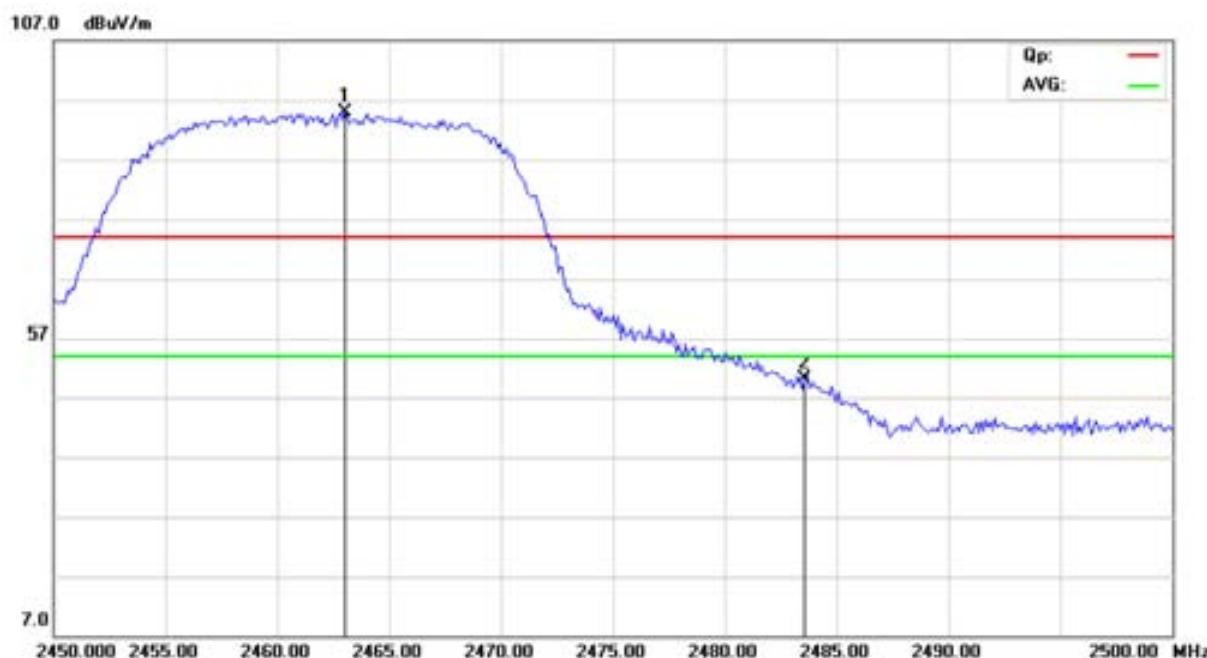
For 802.11n mode

CH11 at 11n HT20 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 50.14 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |

#### Test Figure: Vertical



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For 802.11n mode

CH11 at 11n HT20 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 42.83 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | --    |               | 54(dB $\mu$ V/m) |

#### Test Figure: Horizontal



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For 802.11n mode

CH01 at 11n HT40 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2390.000     | PK (dB $\mu$ V/m)    | 60.77 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 45.54 |               | 54(dB $\mu$ V/m) |
| 2400.000     | PK (dB $\mu$ V/m)    | 66.35 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 48.92 |               | 54(dB $\mu$ V/m) |

**Test Figure: Horizontal**



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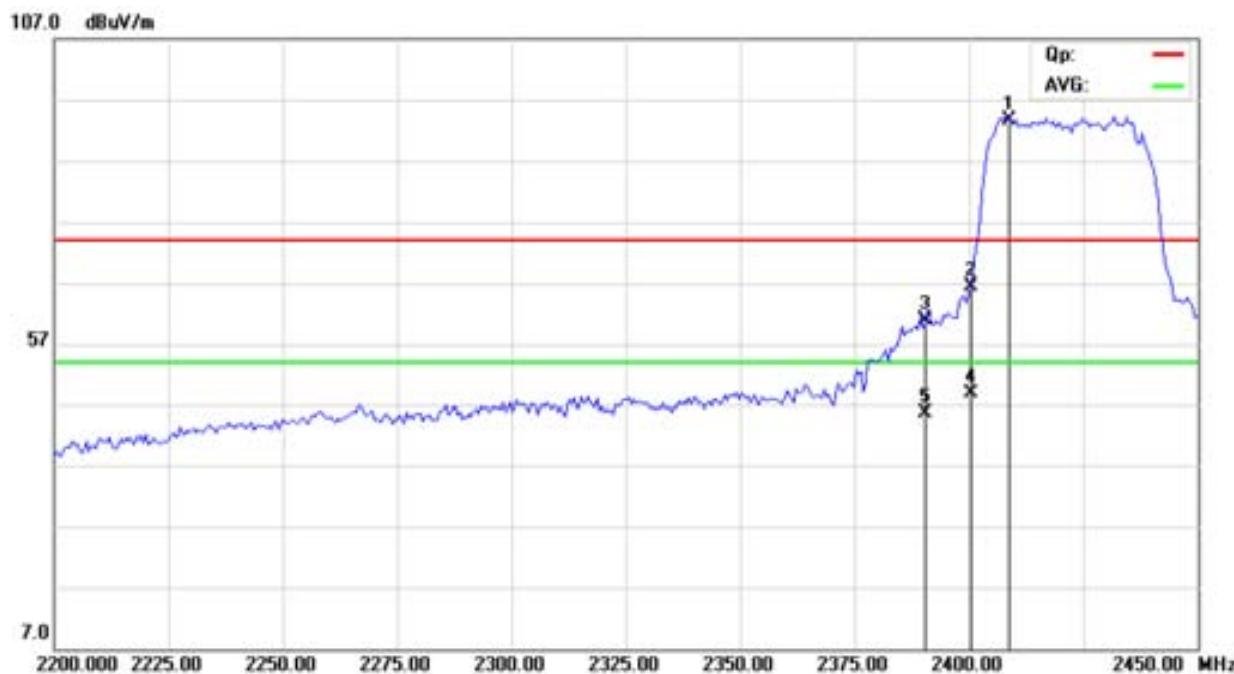
For 802.11n mode

CH01 at 11n HT40 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2390.000     | PK (dB $\mu$ V/m)    | 65.76 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 49.66 |               | 54(dB $\mu$ V/m) |
| 2400.000     | PK (dB $\mu$ V/m)    | 70.04 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 50.96 |               | 54(dB $\mu$ V/m) |

**Test Figure: Vertical**



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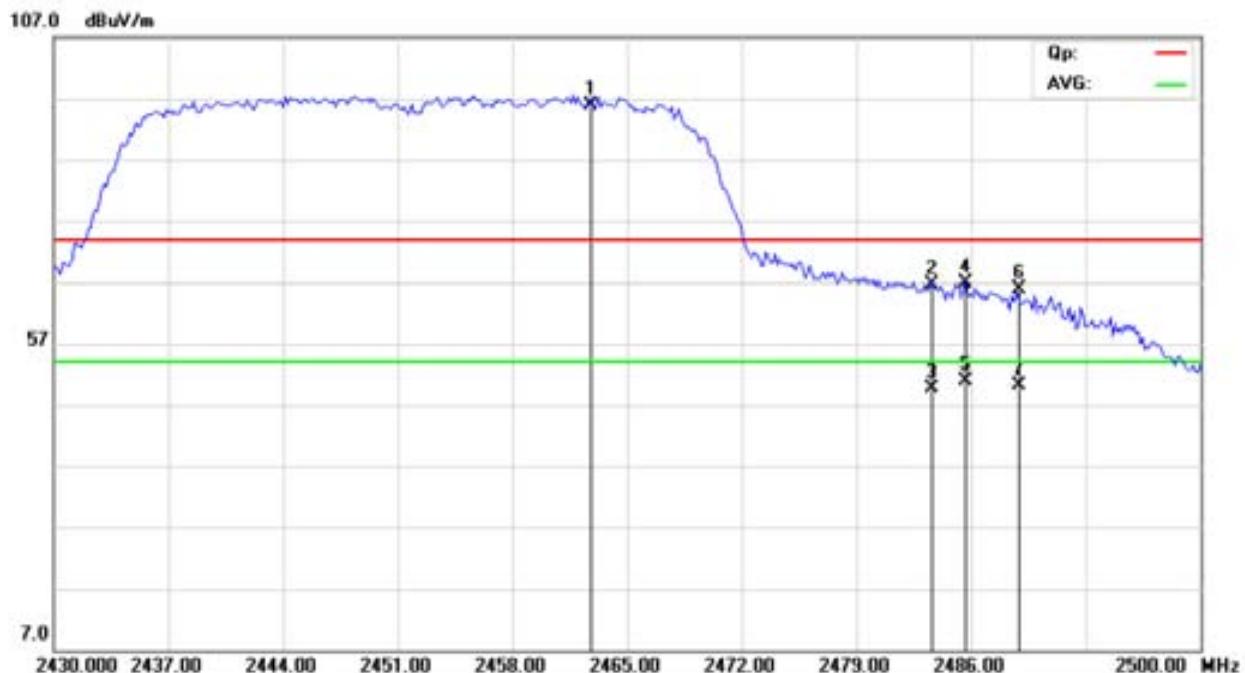
For 802.11n mode

CH11 at 11n HT40 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 66.64 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 49.52 |               | 54(dB $\mu$ V/m) |
| 2485.691     | PK (dB $\mu$ V/m)    | 66.99 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 50.84 |               | 54(dB $\mu$ V/m) |
| 2488.918     | PK (dB $\mu$ V/m)    | 65.89 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 50.21 |               | 54(dB $\mu$ V/m) |

Test Figure: Vertical



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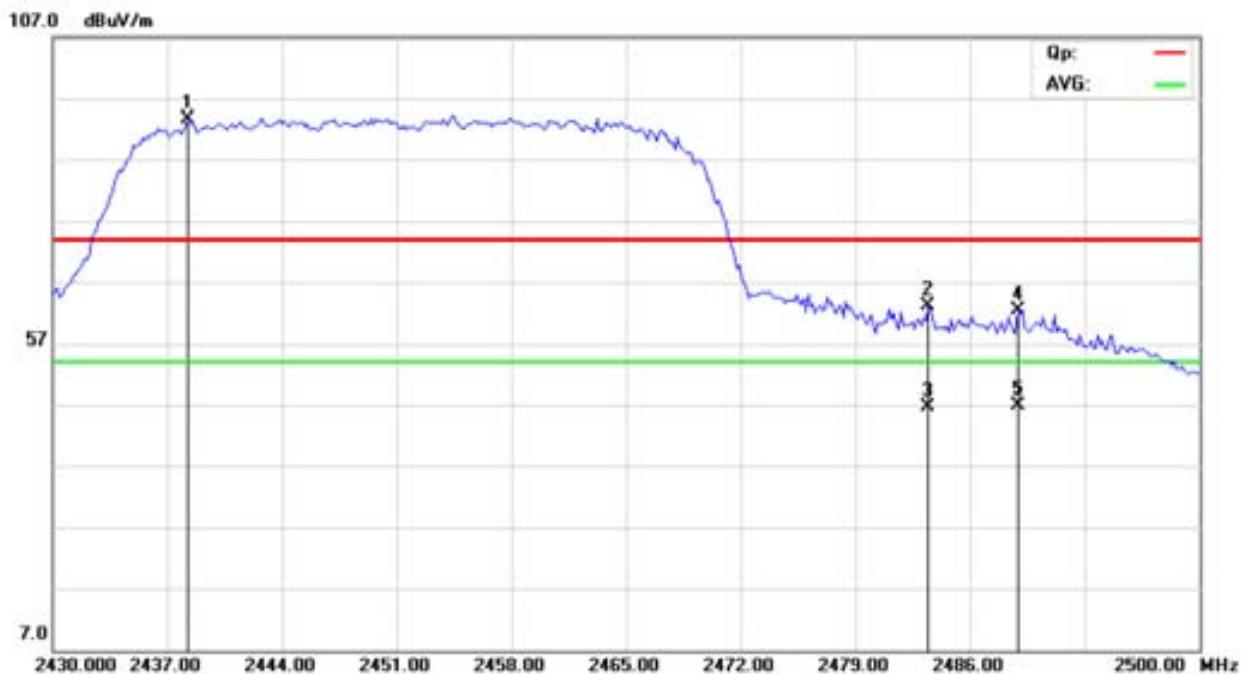
For 802.11n mode

CH11 at 11n HT40 65Mbps

#### 10.4 Restricted band Measurement

|              |                      |       |               |                  |
|--------------|----------------------|-------|---------------|------------------|
| Product:     | SET TOP BOX          |       | Model:        | LN4000           |
| Mode         | Keeping Transmitting |       | Input Voltage | AC 120V          |
| Temperature  | 24 deg. C,           |       | Humid Pity    | 56% RH           |
| Test Result: | Pass                 |       | Detector      | PK               |
| 2483.500     | PK (dB $\mu$ V/m)    | 63.02 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 46.61 |               | 54(dB $\mu$ V/m) |
| 2489.058     | PK (dB $\mu$ V/m)    | 62.50 | Limit         | 74(dB $\mu$ V/m) |
|              | AV (dB $\mu$ V/m)    | 46.81 |               | 54(dB $\mu$ V/m) |

**Test Figure: Horizontal**



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## 11.0 Antenna Requirement

### 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

### 11.2 Antenna Connected construction

PCB antenna used. The maximum Gain of the antennas is 3.3dBi.

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## 12.0 Maximum Permissible Exposure

### Applicable Standard

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

#### (a) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm <sup>2</sup> ) | Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|--|
| 0.3-3.0               | 614                               | 1.63                              | (100)*                                  | 6  |
| 3.0-30                | 1842/f                            | 4.89/f                            | (900/f)*                                | 6  |
| 30-300                | 61.4                              | 0.163                             | 1.0                                     | 6  |
| 300-1500              |                                   |                                   | F/300                                   | 6  |
| 1500-100000           |                                   |                                   | 5                                       | 6  |

#### (b) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm <sup>2</sup> ) | Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|--|
| 0.3-1.34              | 614                               | 1.63                              | (100)*                                  | 30   |
| 1.34-30               | 824/f                             | 2.19/f                            | (180/f)*                                | 30   |
| 30-300                | 27.5                              | 0.073                             | 0.2                                     | 30   |
| 300-1500              |                                   |                                   | F/1500                                  | 30   |
| 1500-100000           |                                   |                                   | 1.0                                     | 30   |

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

### MPE Calculation Method

$$E \text{ (V/m)} = (30 * P * G)^{0.5} / d \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

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

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

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

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

The formula can be changed to

$$Pd = (30 * P * G) / (377 * d^2)$$

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

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## Calculated Result and Limit

**Antenna Gain: 3.3dBi**

| Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|------------------------|-------------------------|------------------------|---|--|-------------|
| 2.138                  | 15.88                   | 38.726                 | 0.016                                   | 1  | Compiles    |

**Note: the worse case was recorded.**

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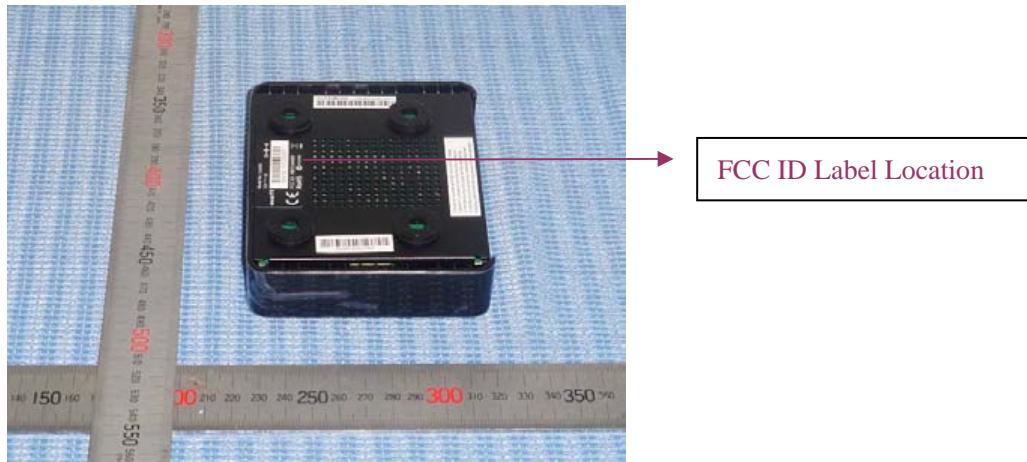
### 13.0 FCC ID Label

**FCC ID: R67LN4000**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**Mark Location:**



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#### 14.0 Photo of testing

Conducted Emissions



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Radiated Emissions



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Photo for the EUT

Outside view



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Outside view



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Inside view



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Inside view

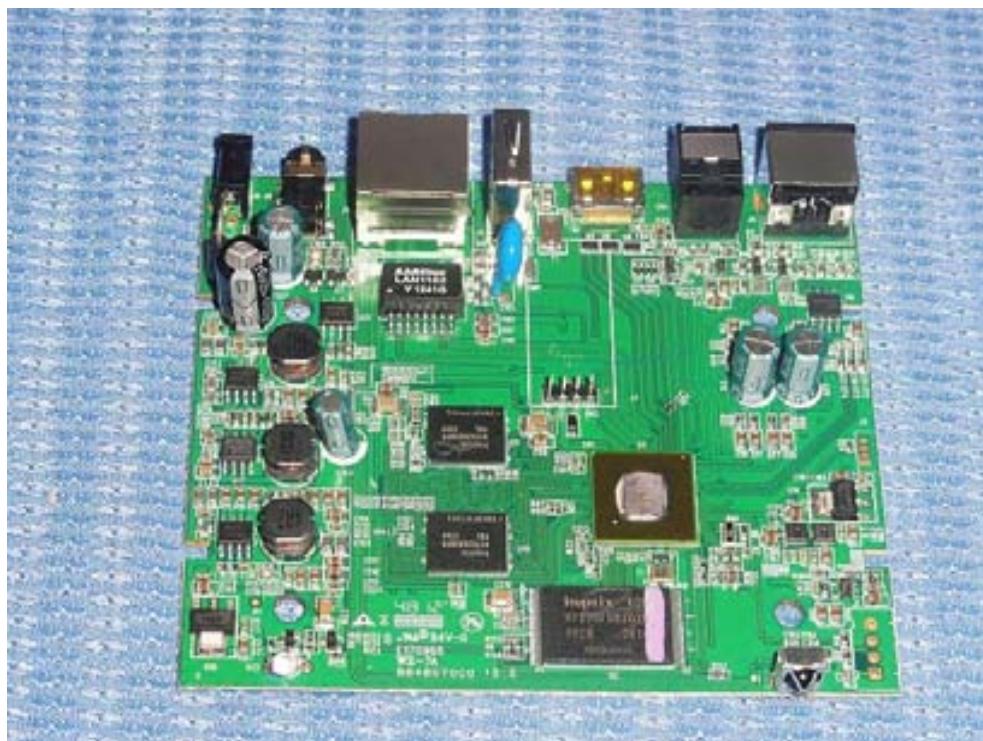


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Inside view



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Antenna

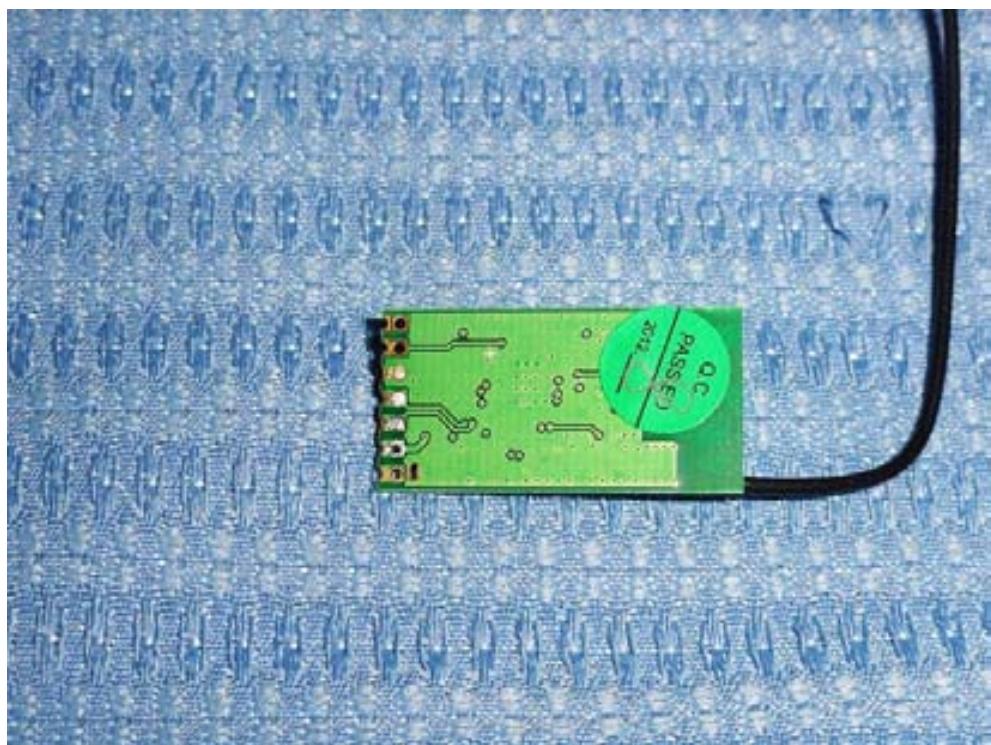
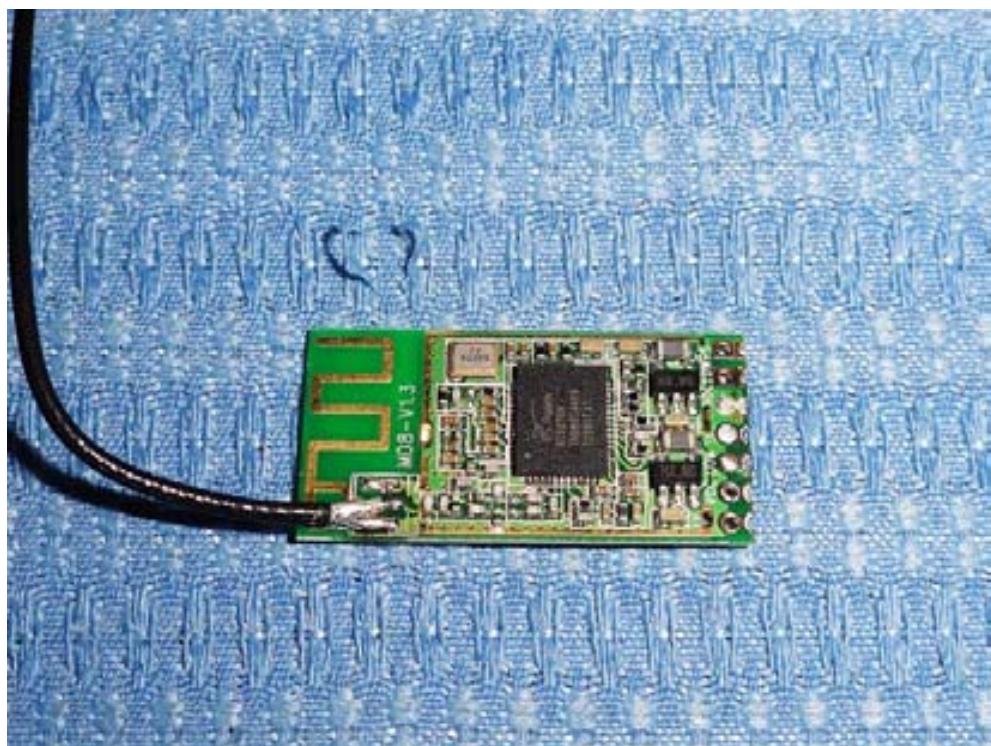


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Modular



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Power Adapter



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Photos of the Product



Power Supply:



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Power Supply:



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