

FCC  
RF  
TEST REPORT

ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
Tablet PC

ISSUED TO  
Shenzhen Jingwah Information Technology Co., Ltd.

4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District,  
Shenzhen



Prepared by: Cao Shaocong  
Cao Shaocong  
(Reporting Specialist)

Date 2014.4.14

Approved by: Wei Yanquan  
Wei Yanquan  
(Chief Engineer)

Date 2014.4.14

Report No.: BL-SZ1430057-602

EUT Type: Tablet PC

Model Name: D70J10-2N, D70J10-2G, D70J10-2P,  
D70J10-2B, D70J10-2R, D70J10-2W,  
D70J10-2M

Brand Name: AOC

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: RBD-D70J10

Test conclusion: PASS

Test Date: Mar 14, 2014 ~ Apr 12, 2014

Date of Issue: Apr 14, 2014

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**Revision History**

| <u>Version</u> | <u>Issue Date</u> | <u>Revisions</u> |
|----------------|-------------------|------------------|
| Rev. 01        | Apr 10, 2014      | Initial Issue    |
| Rev. 02        | Apr 14, 2014      | The Second Issue |

**TABLE OF CONTENTS**

|       |                                                    |    |
|-------|----------------------------------------------------|----|
| 1     | ADMINISTRATIVE DATA (GENERAL INFORMATION)          | 4  |
| 1.1   | Identification of the Testing Laboratory           | 4  |
| 1.2   | Identification of the Responsible Testing Location | 4  |
| 1.3   | Test Environment Condition                         | 4  |
| 1.4   | Announce                                           | 4  |
| 2     | PRODUCT INFORMATION                                | 6  |
| 2.1   | Applicant                                          | 6  |
| 2.2   | Manufacturer                                       | 6  |
| 2.3   | General Description for Equipment under Test (EUT) | 6  |
| 2.4   | Technical Information                              | 6  |
| 2.5   | Ancillary Equipment                                | 7  |
| 3     | SUMMARY OF TEST RESULTS                            | 8  |
| 3.1   | Test Standards                                     | 8  |
| 3.2   | Verdict                                            | 8  |
| 4     | GENERAL TEST CONFIGURATIONS                        | 9  |
| 4.1   | Test Environments                                  | 9  |
| 4.2   | Test Equipment List                                | 9  |
| 4.3   | Test Configurations                                | 9  |
| 4.4   | Description of Test Setup                          | 10 |
| 4.4.1 | For Antenna Port Test                              | 10 |
| 4.4.2 | For AC Power Supply Port Test                      | 10 |
| 4.4.3 | For Radiated Test (Below 30MHz)                    | 11 |
| 4.4.4 | For Radiated Test (30MHz-1GHz)                     | 11 |
| 4.4.5 | For Radiated Test (Above 1GHz)                     | 12 |
| 4.5   | Test Conditions                                    | 12 |

|                |                                    |           |
|----------------|------------------------------------|-----------|
| <b>5</b>       | <b>TEST ITEMS.....</b>             | <b>13</b> |
| 5.1            | Peak Output Power .....            | 13        |
| 5.1.1          | Test Limit.....                    | 13        |
| 5.1.2          | Test Procedure .....               | 13        |
| 5.2            | Occupied Bandwidth .....           | 14        |
| 5.2.1          | Limit.....                         | 14        |
| 5.2.2          | Test Procedure .....               | 14        |
| 5.3            | Conducted Spurious Emission .....  | 15        |
| 5.3.1          | Limit.....                         | 15        |
| 5.3.2          | Test Procedure .....               | 15        |
| 5.4            | Conducted Emission .....           | 16        |
| 5.4.1          | Limit.....                         | 16        |
| 5.4.2          | Test Procedure .....               | 16        |
| 5.5            | Radiated Spurious Emission .....   | 17        |
| 5.5.1          | Limit.....                         | 17        |
| 5.5.2          | Test Procedure .....               | 17        |
| 5.6            | Band Edge .....                    | 18        |
| 5.6.1          | Limit.....                         | 18        |
| 5.6.2          | Test Procedure .....               | 18        |
| 5.7            | Power Spectral density (PSD).....  | 19        |
| 5.7.1          | Limit.....                         | 19        |
| 5.7.2          | Test Procedure .....               | 19        |
| <b>ANNEX A</b> | <b>TEST RESULT .....</b>           | <b>20</b> |
| A.1            | Peak Output Power .....            | 20        |
| A.2            | Bandwidth .....                    | 27        |
| A.3            | Conducted Spurious Emissions ..... | 34        |
| A.4            | Conducted Emissions .....          | 47        |
| A.5            | Radiated Emission .....            | 49        |
| A.6            | Band Edge .....                    | 103       |
| A.7            | Power Spectral Density (PSD) ..... | 111       |

## 1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

### 1.1 Identification of the Testing Laboratory

|              |                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------|
| Company Name | Shenzhen BALUN Technology Co.,Ltd.                                                                                             |
| Address      | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province,P. R. China |
| Phone Number | +86 755 6683 3402                                                                                                              |
| Fax Number   | +86 755 6182 4271                                                                                                              |

### 1.2 Identification of the Responsible Testing Location

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location             | Shenzhen BALUN Technology Co.,Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Address                   | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province,P. R. China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Accreditation Certificate | <p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p> |
| Description               | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### 1.3 Test Environment Condition

|                           |             |
|---------------------------|-------------|
| Ambient Temperature       | 15 to 35°C  |
| Ambient Relative Humidity | 30 to 60%   |
| Ambient Pressure          | 86 to106kPa |

### 1.4 Announce

- (1) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (2) The test report is invalid if there is any evidence and/or falsification.

- (3) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (4) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

## 2 PRODUCT INFORMATION

### 2.1 Applicant

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| Applicant | Shenzhen Jingwah Information Technology Co., Ltd.                            |
| Address   | 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen |

### 2.2 Manufacturer

|              |                                                                              |
|--------------|------------------------------------------------------------------------------|
| Manufacturer | Shenzhen Jingwah Information Technology Co., Ltd.                            |
| Address      | 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen |

### 2.3 General Description for Equipment under Test (EUT)

|                                           |                                                                                                                                                                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Type                                  | Tablet PC                                                                                                                                                          |
| Model under test                          | D70J10-2N                                                                                                                                                          |
| Series Model Name                         | D70J10-2N, D70J10-2G, D70J10-2P, D70J10-2B, D70J10-2R, D70J10-2W, D70J10-2M                                                                                        |
| Description of Model name differentiation | Only the difference in appearance of the color<br>“G”—“Green”, “N”—“Neutral”, “P”—“Pink”, “B”—“Blue”, “R”—“Red”<br>“W”—“White”, “M”—“Magenta”                      |
| Hardware Version                          | V1.1                                                                                                                                                               |
| Software Version                          | D70J10-201403                                                                                                                                                      |
| Network and Wireless connectivity         | BT 3.0<br>WIFI 802.11b, 802.11g and 802.11n (HT20/40)                                                                                                              |
| Display                                   | 7" TFT-LCD, 1024x600 pixels                                                                                                                                        |
| About the Product                         | The EUT is a tablet PC, it contains Bluetooth and WIFI Module operating at 2.4GHz ISM band which supports Bluetooth 3.0 and 802.11b, 802.11g and 802.11n (HT20/40) |

### 2.4 Technical Information

|                        |                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TX/ RX Operating Range | 802.11b/g/n(20MHz): 2.412GHz - 2.462GHz<br>$f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$ , where<br>- $f_c$ = “Operating Frequency” in MHz,<br>- N = “Channel Number” with the range from 1 to 11.<br><br>802.11n(40MHz): 2.422GHz - 2.452GHz<br>$f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$ , where<br>- $f_c$ = “Operating Frequency” in MHz,<br>- N = “Channel Number” with the range from 3 to 9. |
| Modulation Type        | DSSS, OFDM                                                                                                                                                                                                                                                                                                                                                                                                |
| Antenna Type           | PIFA Antenna                                                                                                                                                                                                                                                                                                                                                                                              |
| Antenna Gain           | 0dBi                                                                                                                                                                                                                                                                                                                                                                                                      |

## 2.5 Ancillary Equipment

|                       |                 |                               |
|-----------------------|-----------------|-------------------------------|
| Ancillary Equipment 1 | Battery         |                               |
|                       | Brand Name      | SouthRiver                    |
|                       | Model No        | SR3067A0                      |
|                       | Serial No       | N/A                           |
|                       | Capacitance     | 2600 mAh                      |
|                       | Rated Voltage   | 3.7V                          |
|                       | Extreme Voltage | Low: 3.5V / High:4.2V         |
| Ancillary Equipment 2 | Adapter         |                               |
|                       | Brand Name      | FJ                            |
|                       | Model No        | FJ-SW0502000DU                |
|                       | Serial No       | (N/A. marked #1 by test site) |
|                       | Rated Input     | ~ 100-240V, 1350mA, 50/60Hz   |
|                       | Rated Output    | = 5V, 2000mA                  |
| Ancillary Equipment 3 | USB Data Cable  |                               |

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                                           | Document Title                                                                                                                                                                            |
|-----|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 15,<br>Subpart C (12-30-13<br>Edition) | Miscellaneous Wireless Communications Services                                                                                                                                            |
| 2   | KDB Publication 558074<br>D01v03r01                | Guidance for Performing Compliance Measurements on<br>Digital Transmission Systems (DTS) Operating Under §15.247                                                                          |
| 3   | ANSI C63.4-2003/2009                               | American National Standard for Standard for Methods of<br>Measurement of Radio-Noise Emissions from Low-Voltage<br>Electrical and Electronic Equipment in the Range of 9 kHz to 40<br>GHz |
| 4   | ANSI C63.10-2009                                   | American National Standard for Testing Unlicensed Wireless<br>Devices                                                                                                                     |

#### 3.2 Verdict

| No. | Description                  | FCC Part<br>No.     | Test Result | Verdict                |
|-----|------------------------------|---------------------|-------------|------------------------|
| 1   | Antenna Requirement          | 15.203              | --          | Pass <sup>Note 1</sup> |
| 2   | Peak Output Power            | 15.247(b)           | ANNEX A.1   | Pass                   |
| 3   | Occupied Bandwidth           | 15.247(a)           | ANNEX A.2   | Pass                   |
| 4   | Conducted Spurious Emission  | 15.247(c)           | ANNEX A.3   | Pass                   |
| 5   | Conducted Emission           | 15.207              | ANNEX A.4   | Pass                   |
| 6   | Radiated Spurious Emission   | 15.209<br>15.247(c) | ANNEX A.5   | Pass                   |
| 7   | Band Edge                    | 15.247(c)           | ANNEX A.6   | Pass                   |
| 8   | Power spectral density (PSD) | 15.247(d)           | ANNEX A.7   | Pass                   |

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

|                            |                         |                |
|----------------------------|-------------------------|----------------|
| Relative Humidity (%)      | 30 -60                  |                |
| Atmospheric Pressure (kPa) | 86-106                  |                |
| Temperature                | NT (Normal Temperature) | +20°C to +25°C |
|                            | LT (Low Temperature)    | -20°C          |
|                            | HT (High Temperature)   | +55°C          |
| Working Voltage of the EUT | NV (Normal Voltage)     | 3.70V          |
|                            | LV (Low Voltage)        | 3.50V          |
|                            | HV (High Voltage)       | 4.20V          |

### 4.2 Test Equipment List

| Description                      | Manufacturer         | Model      | Serial No. | Cal. Date  | Cal. Due   |
|----------------------------------|----------------------|------------|------------|------------|------------|
| Spectrum Analyzer                | AGILENT              | E4440A     | MY45304434 | 2013.05.10 | 2014.05.09 |
| Spectrum Analyzer                | ROHDE&SCHWARZ        | FSL3       | 103640/003 | 2013.05.02 | 2014.05.01 |
| Power Splitter                   | KMW                  | DCPD-LDC   | 1305003215 | 2013.05.14 | 2014.05.13 |
| Power Sensor                     | ROHDE&SCHWARZ        | NRP-Z21    | 103971     | 2013.05.08 | 2014.05.07 |
| Attenuator (20dB)                | KMW                  | ZA-S1-201  | 110617091  | --         | --         |
| Attenuator (6dB)                 | KMW                  | ZA-S1-61   | 1305003189 | --         | --         |
| DC Power Supply                  | ROHDE&SCHWARZ        | HMP2020    | 018141664  | 2013.07.06 | 2014.07.07 |
| Temperature Chamber              | ANGELANTIONI SCIENCE | NTH64-40A  | 1310       | 2013.07.06 | 2014.07.07 |
| Test Antenna-Loop(9kHz-30MHz)    | SCHWARZBECK          | FMZB 1519  | 1519-037   | 2013.07.02 | 2014.07.01 |
| Test Antenna-Bi-Log(30MHz-3G Hz) | SCHWARZBECK          | VULB 9163  | 9163-624   | 2013.07.03 | 2014.07.02 |
| Test Antenna-Horn(1-18GHz)       | SCHWARZBECK          | BBHA 9120D | 9120D-1148 | 2013.07.02 | 2014.07.01 |
| Test Antenna-Horn(15-26.5GHz)    | SCHWARZBECK          | BBHA 9170  | 9170-305   | 2013.07.02 | 2014.07.01 |
| Anechoic Chamber                 | RAINFORD             | 9m*6m*6m   | N/A        | 2013.10.07 | 2014.10.06 |

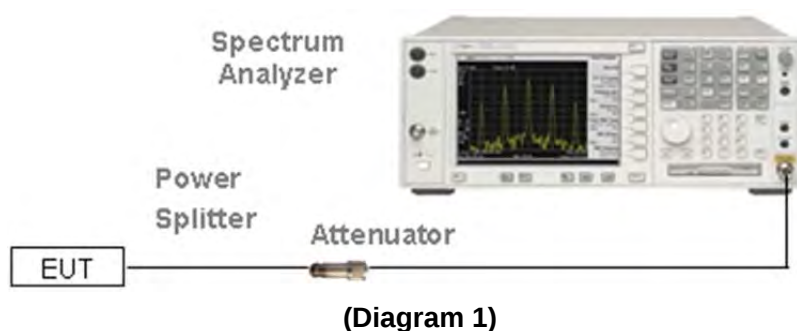
### 4.3 Test Configurations

| Test Configurations (TC) NO. | Description        |                     |
|------------------------------|--------------------|---------------------|
|                              | Signal Description | Operating Frequency |
| Transmitter                  |                    |                     |

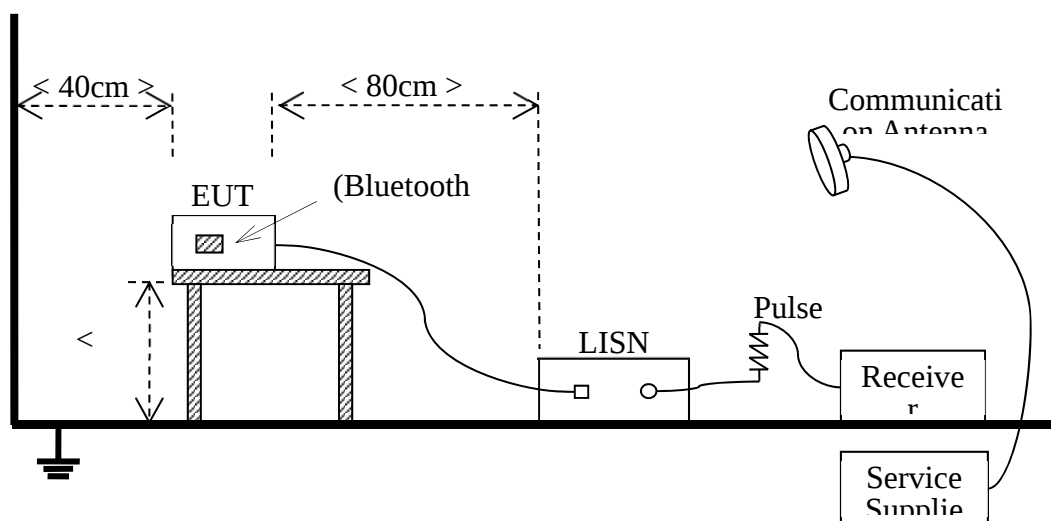
|      |                                 |                    |
|------|---------------------------------|--------------------|
| TC01 | DSSS modulation, 802.11b        | Ch No. 1/ 2412MHz  |
| TC02 | DSSS modulation, 802.11b        | Ch No. 6/ 2437MHz  |
| TC03 | DSSS modulation, 802.11b        | Ch No. 11/ 2462MHz |
| TC04 | OFDM modulation, 802.11g        | Ch No. 1/ 2412MHz  |
| TC05 | OFDM modulation, 802.11g        | Ch No. 6/ 2437MHz  |
| TC06 | OFDM modulation, 802.11g        | Ch No. 11/ 2462MHz |
| TC07 | OFDM modulation, 802.11n(20MHz) | Ch No. 1/ 2412MHz  |
| TC08 | OFDM modulation, 802.11n(20MHz) | Ch No. 6/ 2437MHz  |
| TC09 | OFDM modulation, 802.11n(20MHz) | Ch No. 11/ 2462MHz |
| TC10 | OFDM modulation, 802.11n(40MHz) | Ch No. 3/ 2422MHz  |
| TC11 | OFDM modulation, 802.11n(40MHz) | Ch No. 6/ 2437MHz  |
| TC12 | OFDM modulation, 802.11n(40MHz) | Ch No. 9/ 2452MHz  |

## 4.4 Description of Test Setup

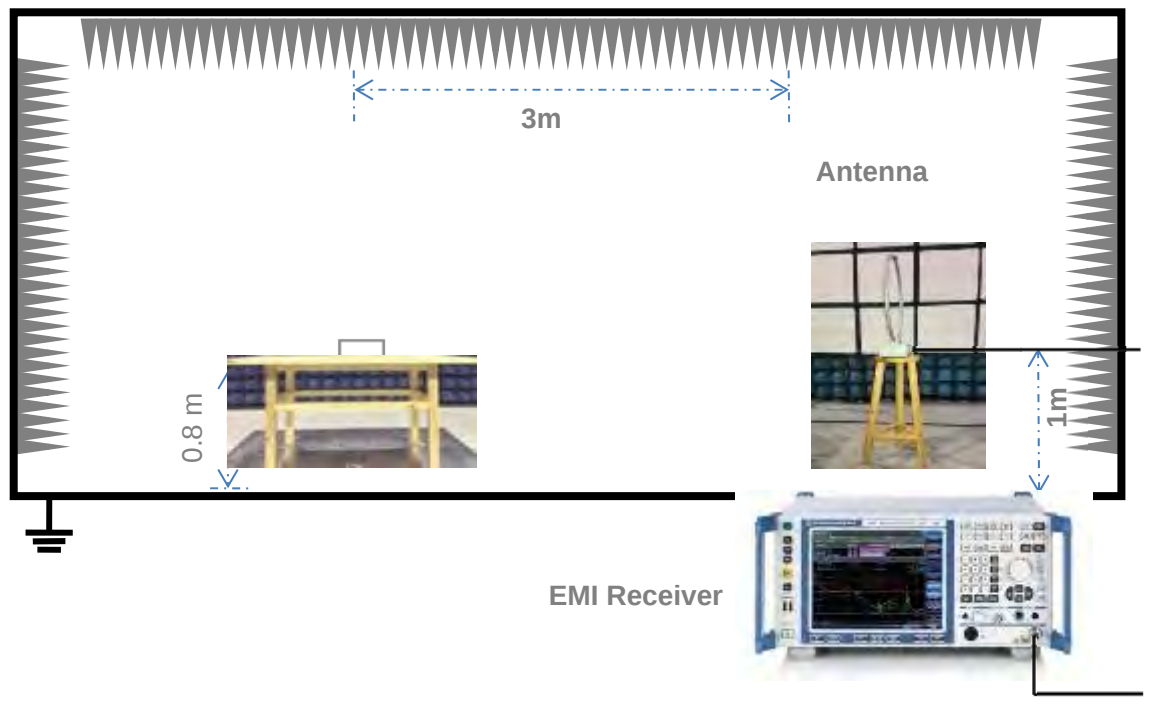
### 4.4.1 For Antenna Port Test



### 4.4.2 For AC Power Supply Port Test

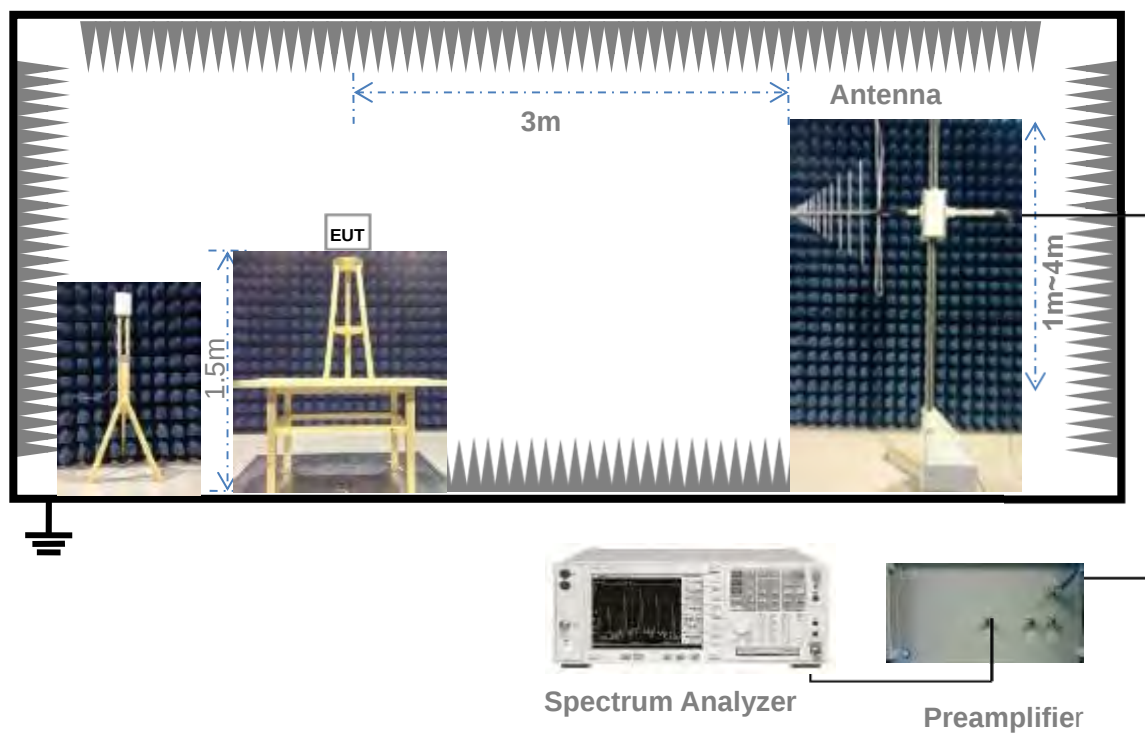


#### 4.4.3 For Radiated Test (Below 30MHz)



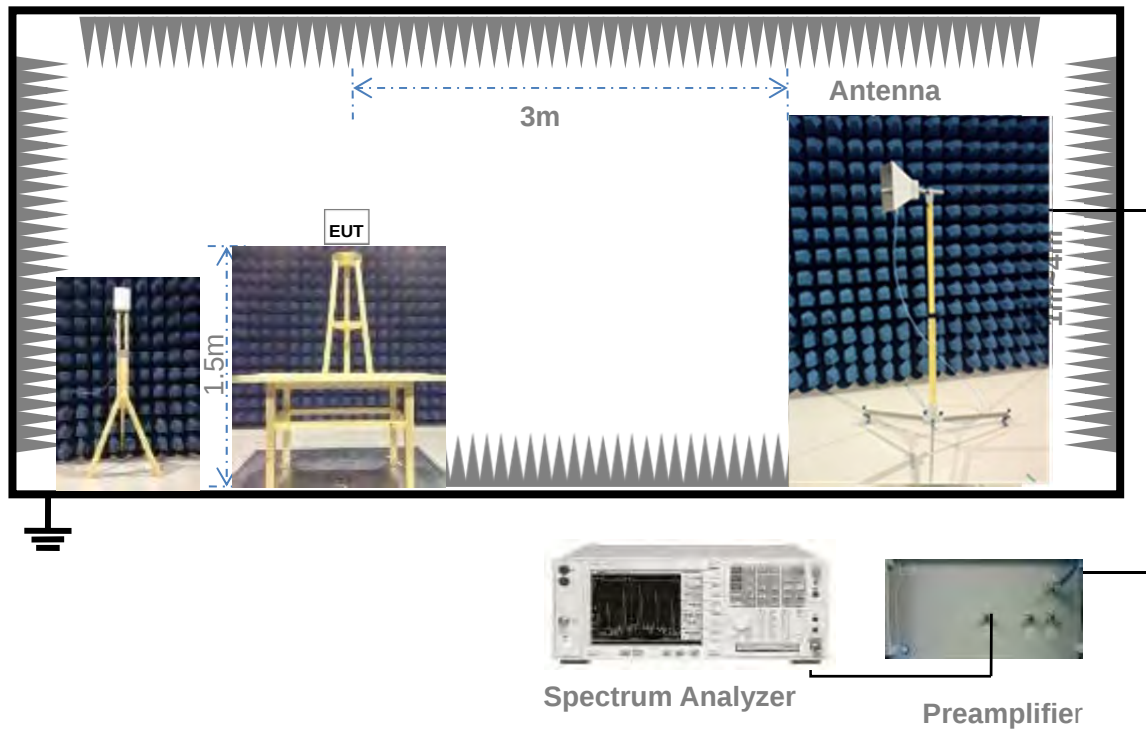
(Diagram 3)

#### 4.4.4 For Radiated Test (30MHz-1GHz)



(Diagram 4)

#### 4.4.5 For Radiated Test (Above 1GHz)



(Diagram 5)

#### 4.5 Test Conditions

| Test Case                                                                                                                 | Test Conditions |                                              |                                                |
|---------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------|------------------------------------------------|
|                                                                                                                           | Test Env.       | Test Setup <sup>Note 1</sup>                 | Test Configuration <sup>Note 2</sup>           |
| Peak Output Power                                                                                                         | NTNV            | Test Setup 1                                 | TC01~TC12                                      |
| Occupied Bandwidth                                                                                                        | NTNV            | Test Setup 1                                 | TC01~TC12                                      |
| Conducted Spurious Emission                                                                                               | NTNV            | Test Setup 1                                 | TC01~TC12                                      |
| Conducted Emission                                                                                                        | NTNV            | Test Setup 2                                 | TC01~TC12                                      |
| Radiated Spurious Emission                                                                                                | NTNV            | Test Setup 3<br>Test Setup 4<br>Test Setup 5 | TC01~TC12                                      |
| Band Edge                                                                                                                 | NTNV            | Test Setup 1                                 | TC01, TC03, TC04, TC06, TC07, TC09, TC10, TC12 |
| Power spectral density (PSD)                                                                                              | NTNV            | Test Setup 2                                 | TC01~TC12                                      |
| Note:<br>1. Please refer to section 4.4 for test setup details.<br>2. Please refer to section 4.3 for test setup details. |                 |                                              |                                                |

## 5 TEST ITEMS

### 5.1 Peak Output Power

#### 5.1.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

#### 5.1.2 Test Procedure

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

Set the RBW = 1 MHz

Set the VBW  $\geq$  3 RBW

Set the span  $\geq$  1.5 x DTS bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function,

## 5.2 Occupied Bandwidth

### 5.2.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

### 5.2.2 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW)  $\geq 3$  RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 5.3 Conducted Spurious Emission

### 5.3.1 Limit

FCC §15.247(c)

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

### 5.3.2 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

## 5.4 Conducted Emission

### 5.4.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

| Frequency range (MHz) | Conducted Limit (dB $\mu$ V) |          |
|-----------------------|------------------------------|----------|
|                       | Quai-peak                    | Average  |
| 0.15 - 0.50           | 66 to 56                     | 56 to 46 |
| 0.50 - 5              | 56                           | 46       |
| 0.50 - 30             | 60                           | 50       |

### 5.4.2 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

## 5.5 Radiated Spurious Emission

### 5.5.1 Limit

FCC §15.209&15.247(c)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ( $\mu\text{V/m}$ ) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 0.009 - 0.490   | 2400/F(kHz)                        | 300                      |
| 0.490 - 1.705   | 24000/F(kHz)                       | 30                       |
| 1.705 - 30.0    | 30                                 | 30                       |
| 30 - 88         | 100                                | 3                        |
| 88 - 216        | 150                                | 3                        |
| 216 - 960       | 200                                | 3                        |
| Above 960       | 500                                | 3                        |

Note:

1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

### 5.5.2 Test Procedure

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

## 5.6 Band Edge

### 5.6.1 Limit

FCC §15.209&15.247(d)

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

### 5.6.2 Test Procedure

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation

RBW  $\geq$  1% of the span

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak /AV

Trace = max hold

Allow the trace to stabilize.

$E \text{ [dB}\mu\text{V/m]} = UR + AT + A \text{ Factor [dB]}; AT = L \text{ Cable loss [dB]} - G \text{ preamp [dB]}$

AT: Total correction Factor except Antenna

UR: Receiver Reading

G preamp: Preamplifier Gain

A Factor: Antenna Factor at 3m

## 5.7 Power Spectral density (PSD)

### 5.7.1 Limit

FCC §15.247(d)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

### 5.7.2 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .

Set the VBW  $\geq 3 \text{ RBW}$ .

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## ANNEX A TEST RESULT

### A.1 Peak Output Power

#### Test Data

802.11b Mode:

| Channel | Frequency (MHz) | Measured Output Peak Power |       | Limit |      | Verdict |
|---------|-----------------|----------------------------|-------|-------|------|---------|
|         |                 | dBm                        | mW    | dBm   | mW   |         |
| 1       | 2412            | 16.46                      | 44.26 | 30    | 1000 | PASS    |
| 6       | 2437            | 16.76                      | 47.42 |       |      | PASS    |
| 11      | 2462            | 15.41                      | 34.75 |       |      | PASS    |

802.11g Mode:

| Channel | Frequency (MHz) | Measured Output Peak Power |       | Limit |      | Verdict |
|---------|-----------------|----------------------------|-------|-------|------|---------|
|         |                 | dBm                        | mW    | dBm   | mW   |         |
| 1       | 2412            | 16.13                      | 41.02 | 30    | 1000 | PASS    |
| 6       | 2437            | 15.66                      | 36.81 |       |      | PASS    |
| 11      | 2462            | 15.59                      | 36.22 |       |      | PASS    |

802.11n-20MHz Mode:

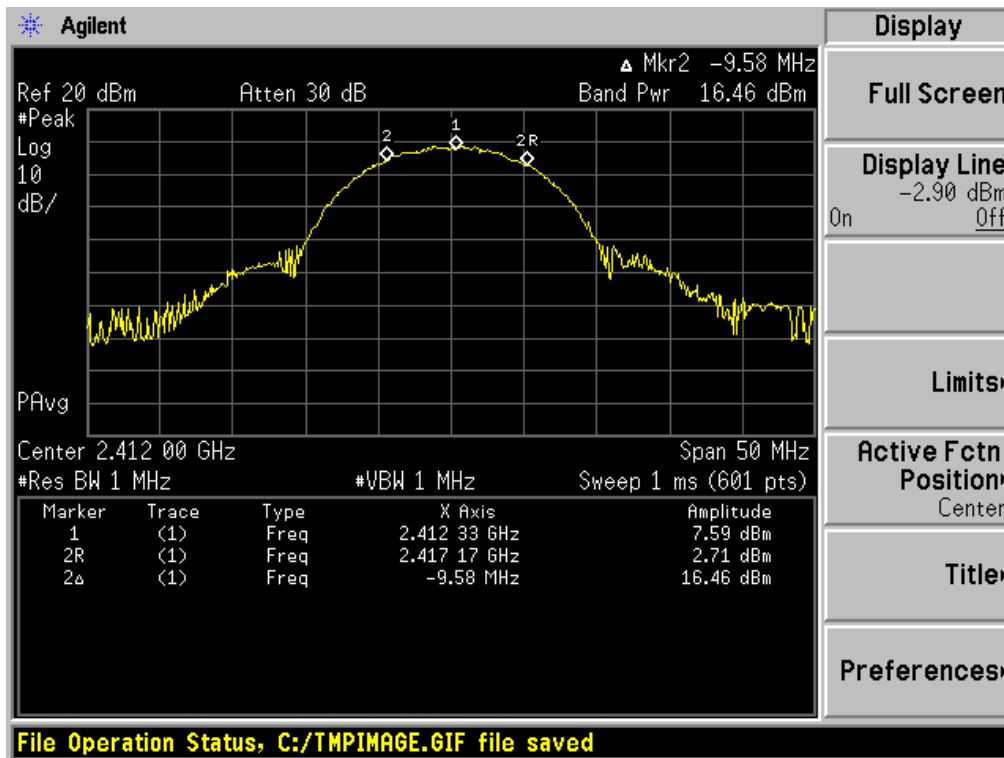
| Channel | Frequency (MHz) | Measured Output Peak Power |       | Limit |      | Verdict |
|---------|-----------------|----------------------------|-------|-------|------|---------|
|         |                 | dBm                        | mW    | dBm   | mW   |         |
| 1       | 2412            | 16.08                      | 40.55 | 30    | 1000 | PASS    |
| 6       | 2437            | 15.98                      | 39.63 |       |      | PASS    |
| 11      | 2462            | 15.50                      | 35.48 |       |      | PASS    |

802.11n-40MHz Mode:

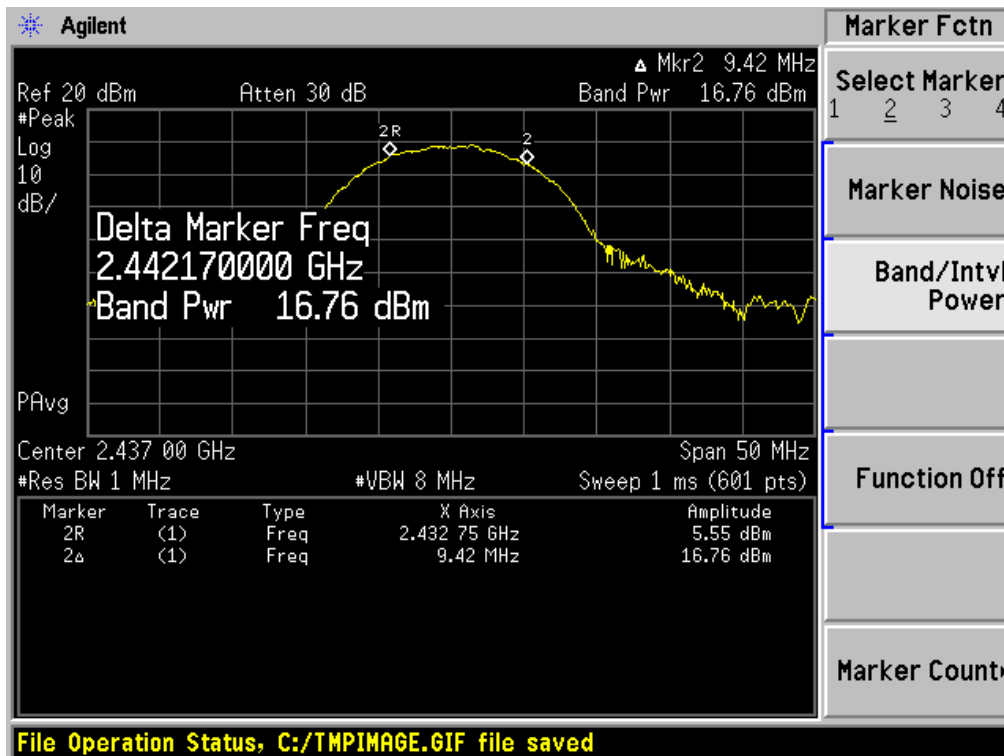
| Channel | Frequency (MHz) | Measured Output Peak Power |       | Limit |      | Verdict |
|---------|-----------------|----------------------------|-------|-------|------|---------|
|         |                 | dBm                        | mW    | dBm   | mW   |         |
| 3       | 2422            | 15.51                      | 35.56 | 30    | 1000 | PASS    |
| 6       | 2437            | 15.57                      | 36.06 |       |      | PASS    |
| 9       | 2452            | 15.26                      | 33.57 |       |      | PASS    |

## Test plots

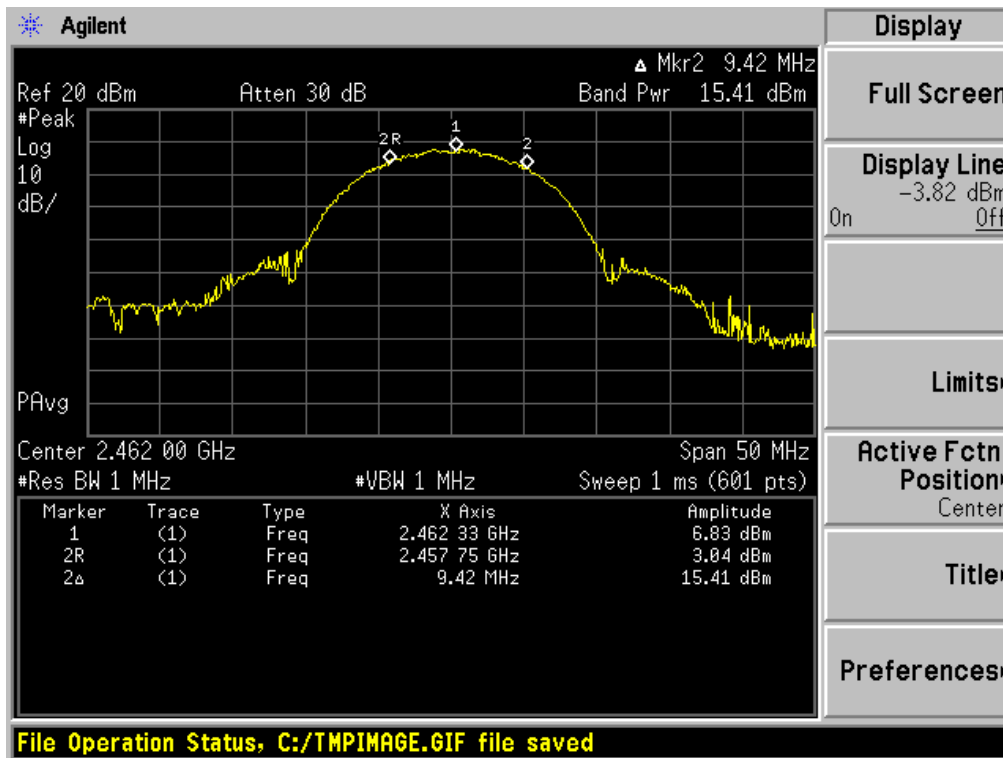
### A.1.1, 802.11b LOW CHANNEL



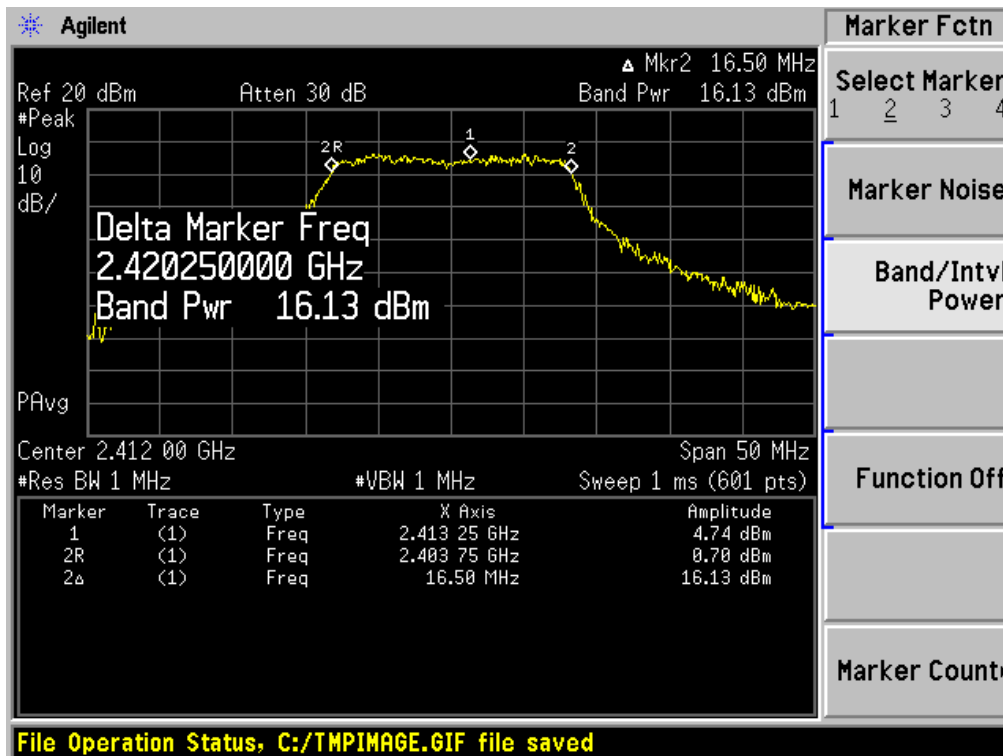
### A.1.2, 802.11b MID CHANAEL



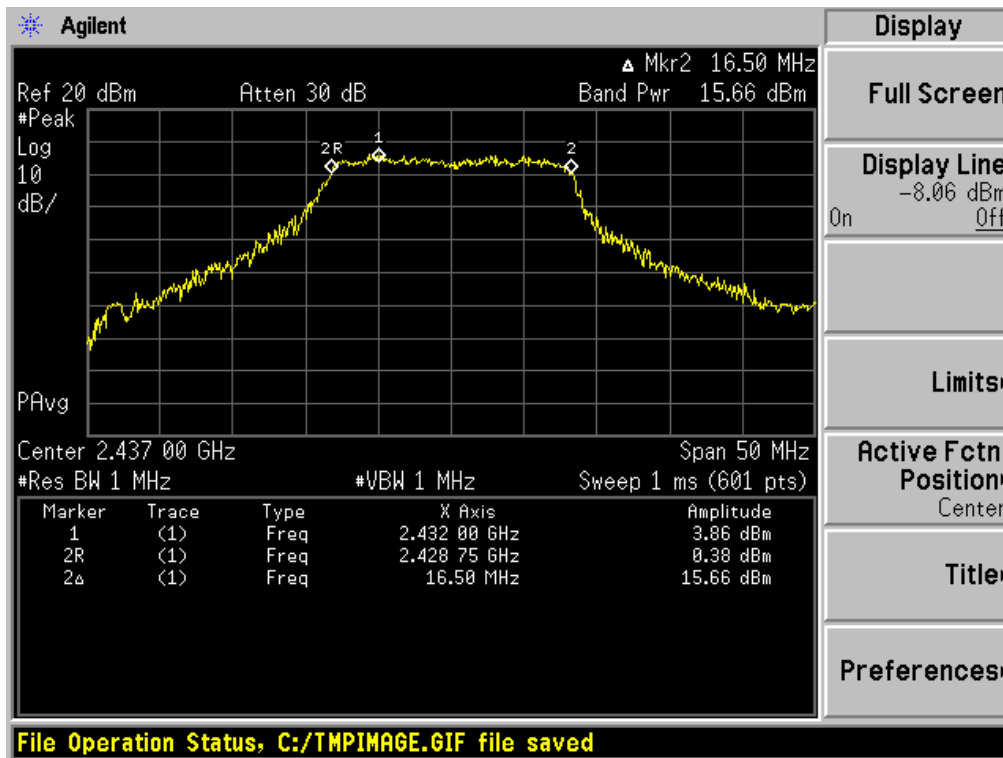
### A.1.3, 802.11b HIGH CHANNEL



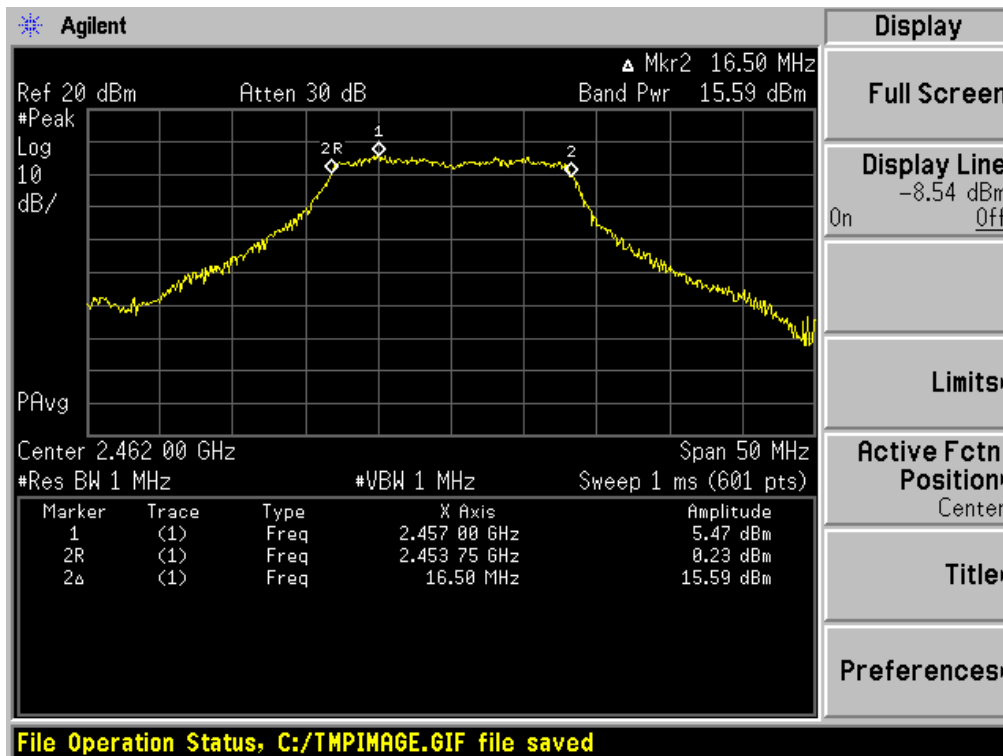
### A.1.4, 802.11g LOW CHANNEL



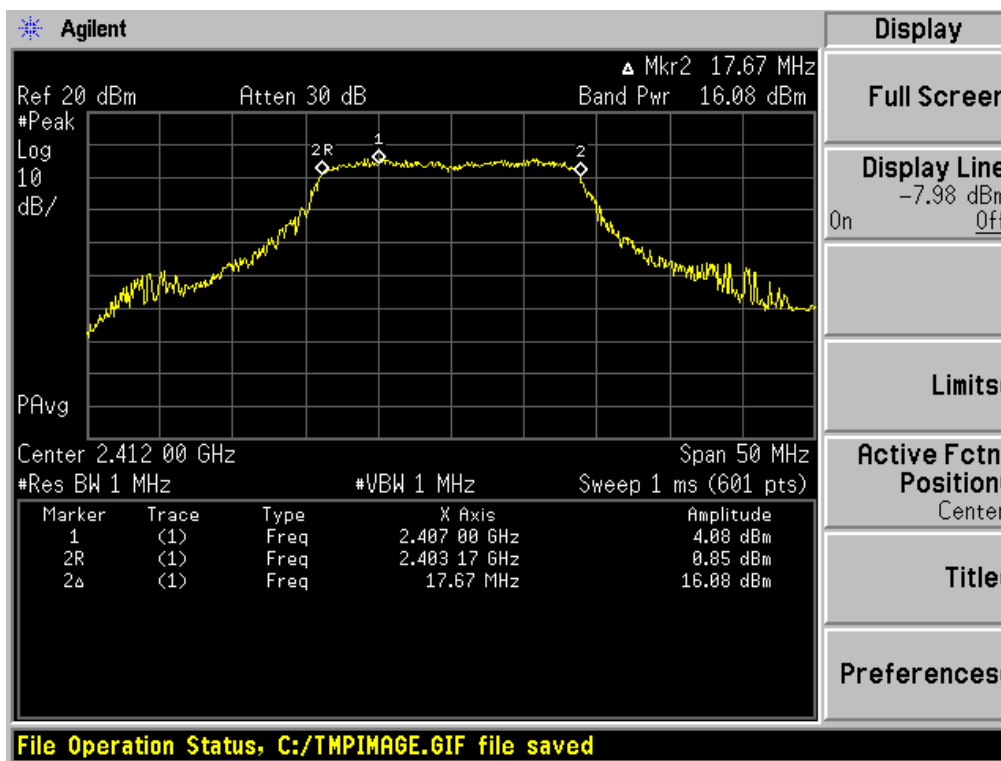
### A.1.5, 802.11g MID CHANAEL



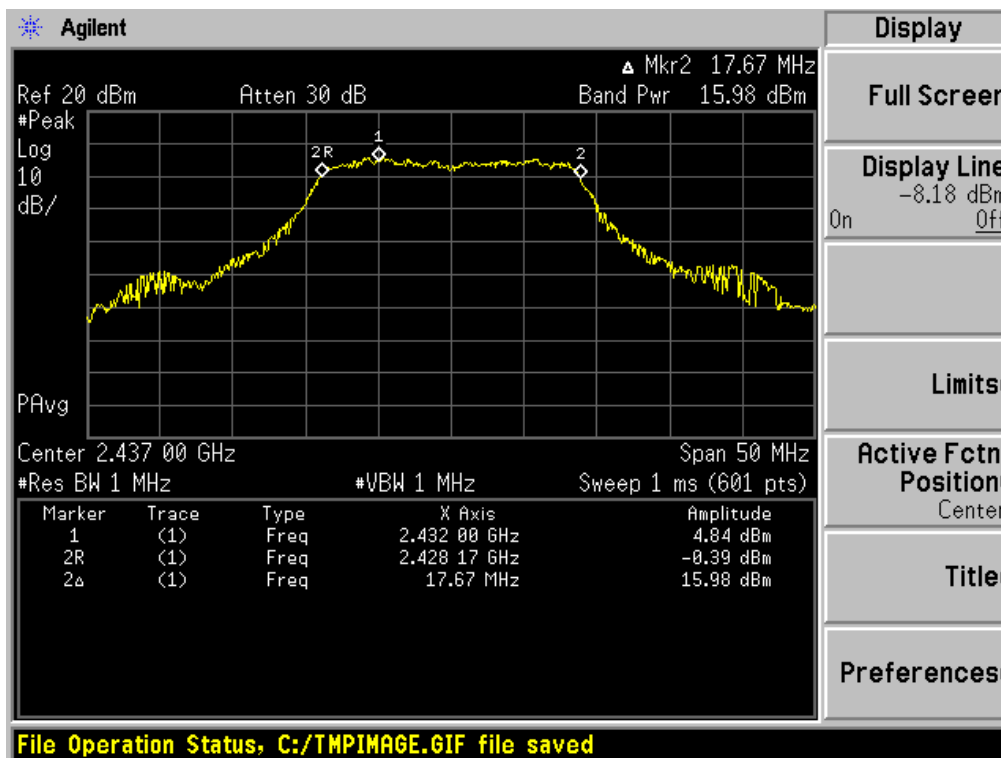
### A.1.6, 802.11g HIGH CHANNEL



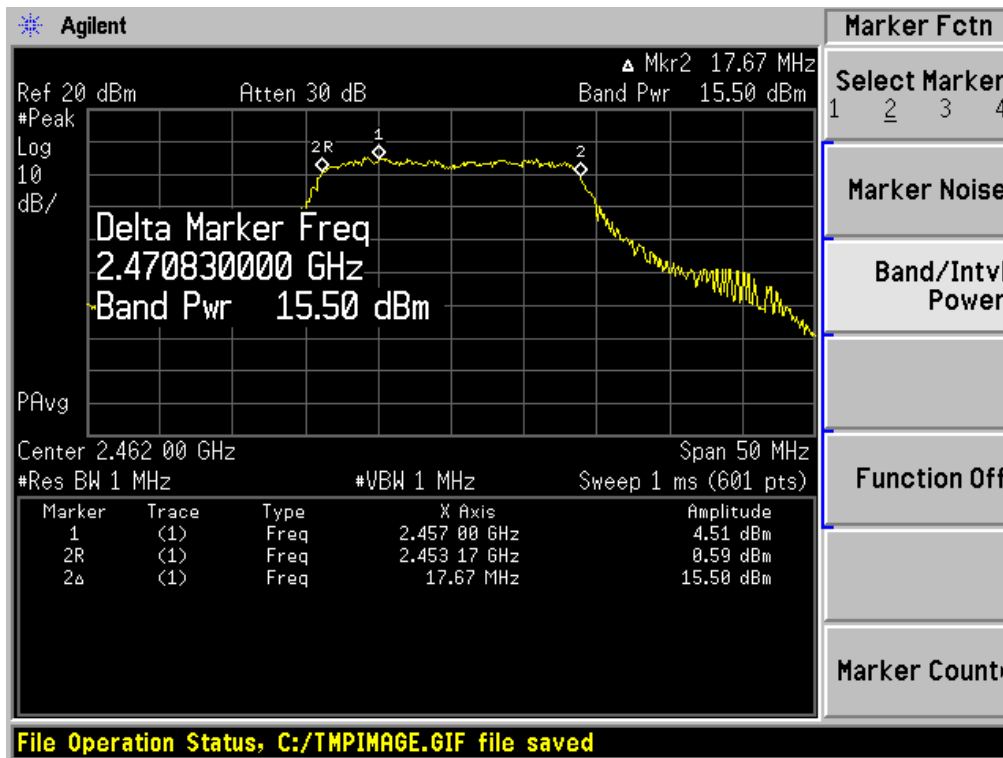
### A.1.7, 802.11n-20MHz LOW CHANNEL



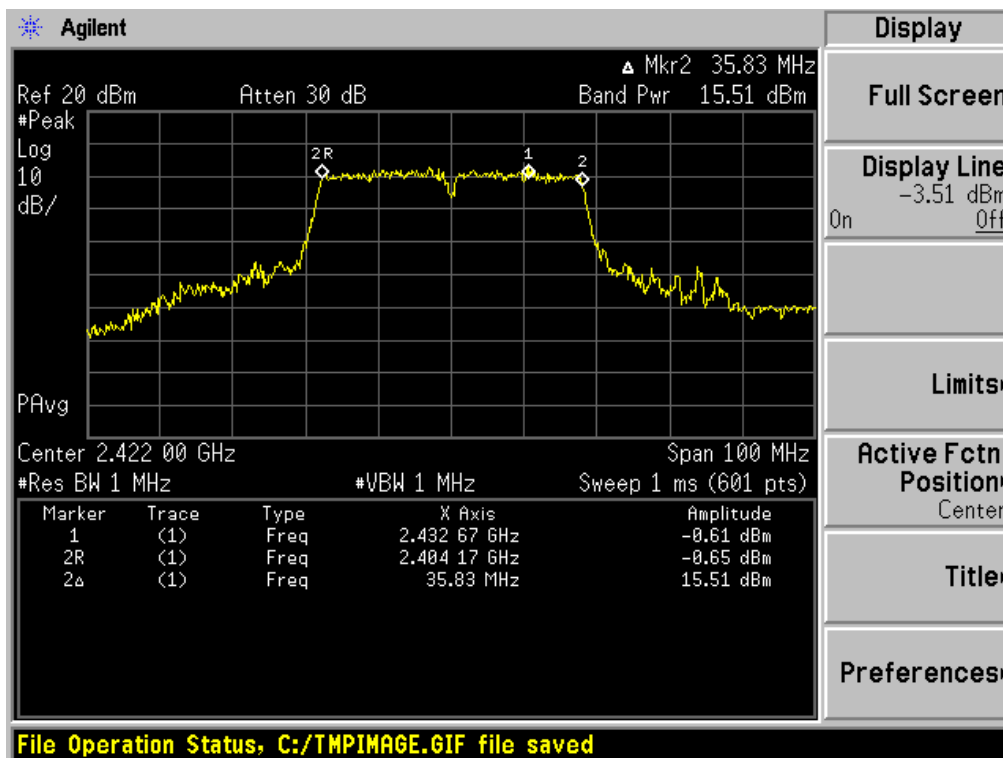
### A.1.8, 802.11n-20MHz MID CHANAEL



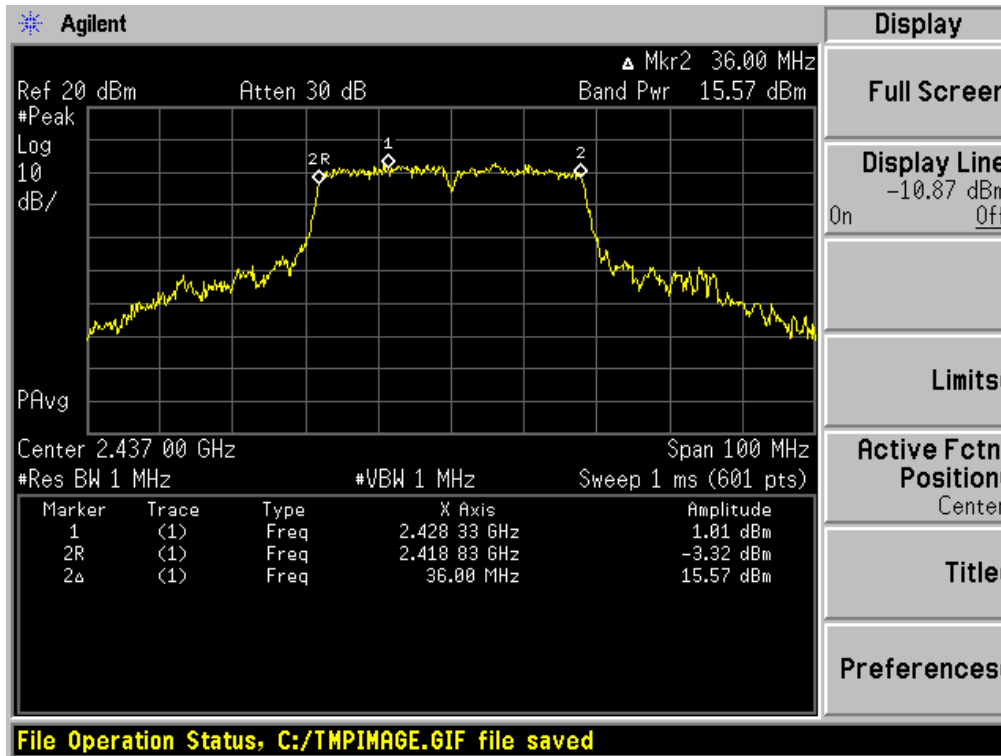
### A.1.9, 802.11n-20MHz HIGH CHANNEL



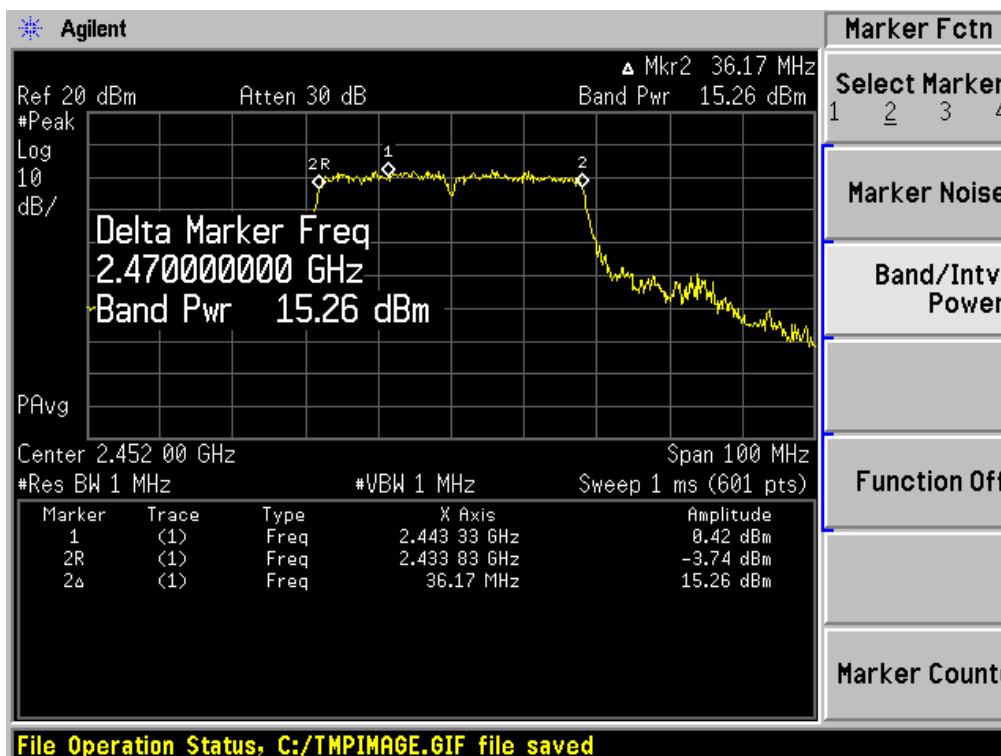
### A.1.10, 802.11n-40MHz LOW CHANNEL



### A.1.11, 802.11n-40MHz MID CHANAEL



#### A.1.12, 802.11n-40MHz HIGH CHANNEL



## A.2 Bandwidth

Test Data

802.11b Mode:

| Channel | Frequency<br>(MHz) | 6 dB Bandwidth<br>(MHz) | Limits<br>(kHz) |
|---------|--------------------|-------------------------|-----------------|
| Low     | 2412               | 9.394                   | $\geq 500$      |
| Middle  | 2437               | 9.359                   | $\geq 500$      |
| High    | 2462               | 9.903                   | $\geq 500$      |

802.11g Mode:

| Channel | Frequency<br>(MHz) | 6 dB Bandwidth<br>(MHz) | Limits<br>(kHz) |
|---------|--------------------|-------------------------|-----------------|
| Low     | 2412               | 16.453                  | $\geq 500$      |
| Middle  | 2437               | 16.456                  | $\geq 500$      |
| High    | 2462               | 16.451                  | $\geq 500$      |

802.11n-20MHz Mode:

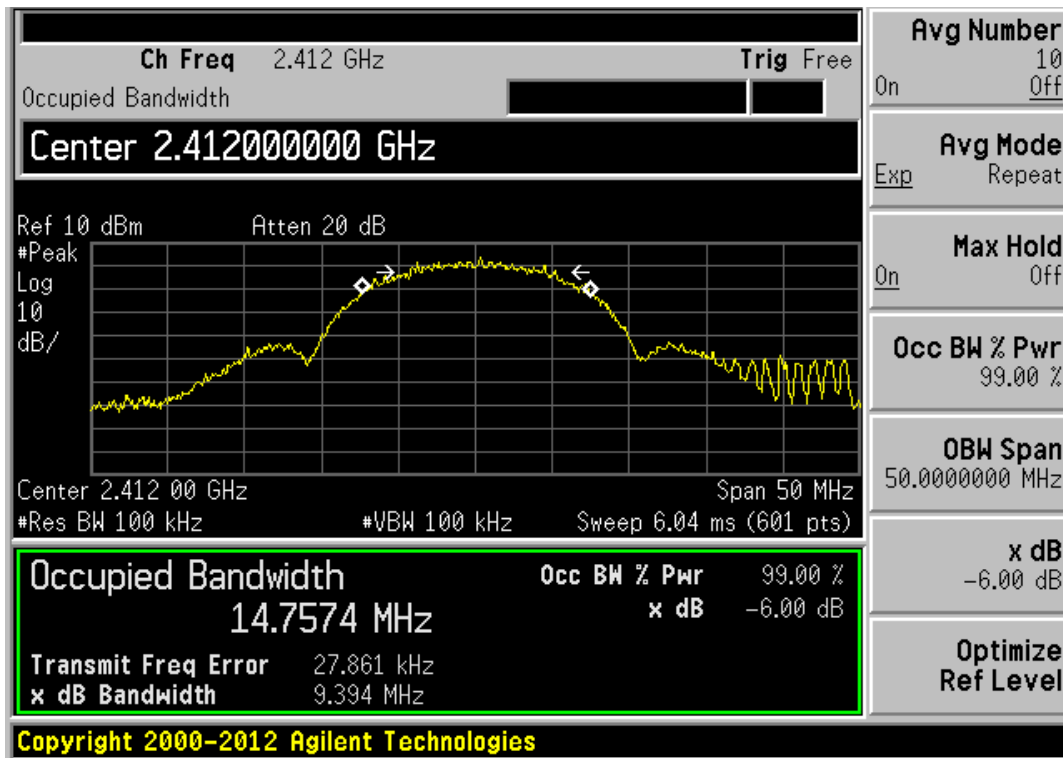
| Channel | Frequency<br>(MHz) | 6 dB Bandwidth<br>(MHz) | Limits<br>(kHz) |
|---------|--------------------|-------------------------|-----------------|
| Low     | 2412               | 16.993                  | $\geq 500$      |
| Middle  | 2437               | 17.394                  | $\geq 500$      |
| High    | 2462               | 16.968                  | $\geq 500$      |

802.11n-40MHz Mode:

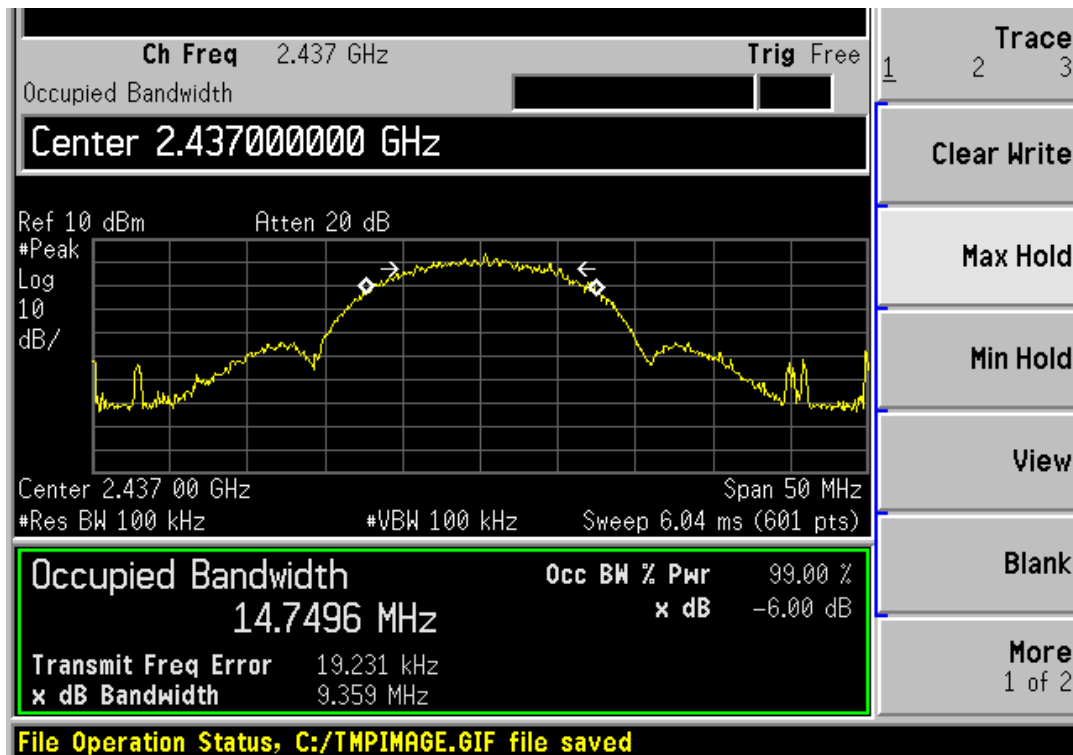
| Channel | Frequency<br>(MHz) | 6 dB Bandwidth<br>(MHz) | Limits<br>(kHz) |
|---------|--------------------|-------------------------|-----------------|
| Low     | 2422               | 35.517                  | $\geq 500$      |
| Middle  | 2437               | 35.524                  | $\geq 500$      |
| High    | 2452               | 34.848                  | $\geq 500$      |

## Test plots

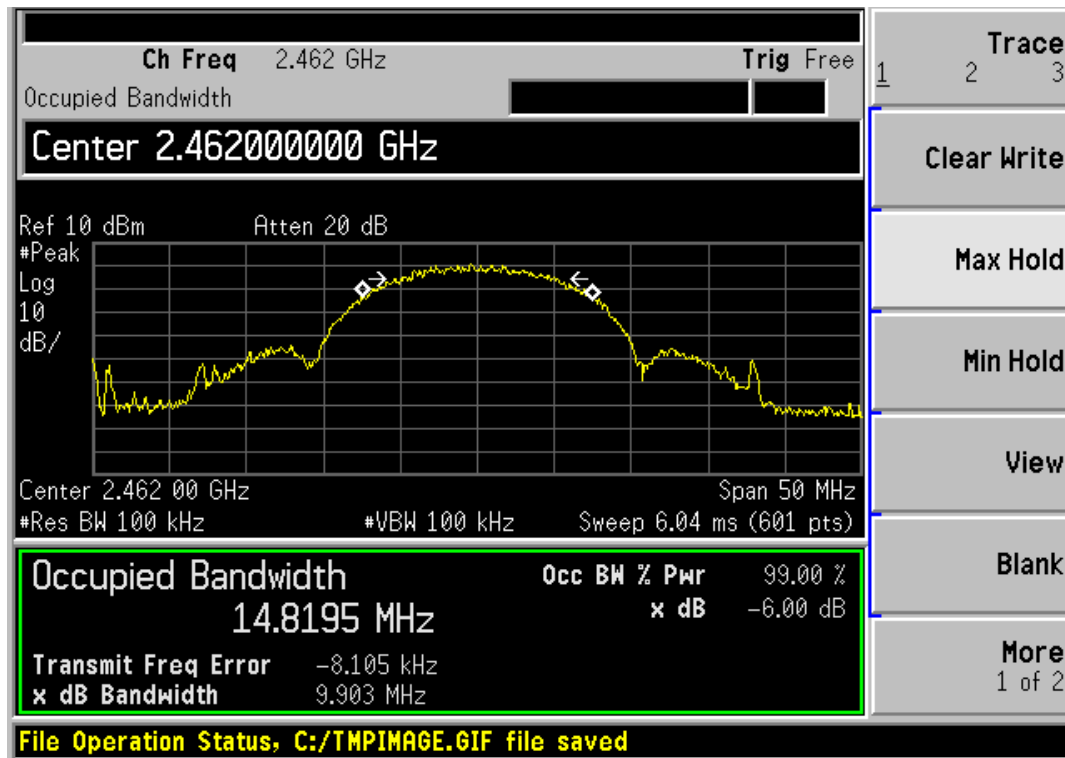
### A.2.1, 802.11b LOW CHANNEL



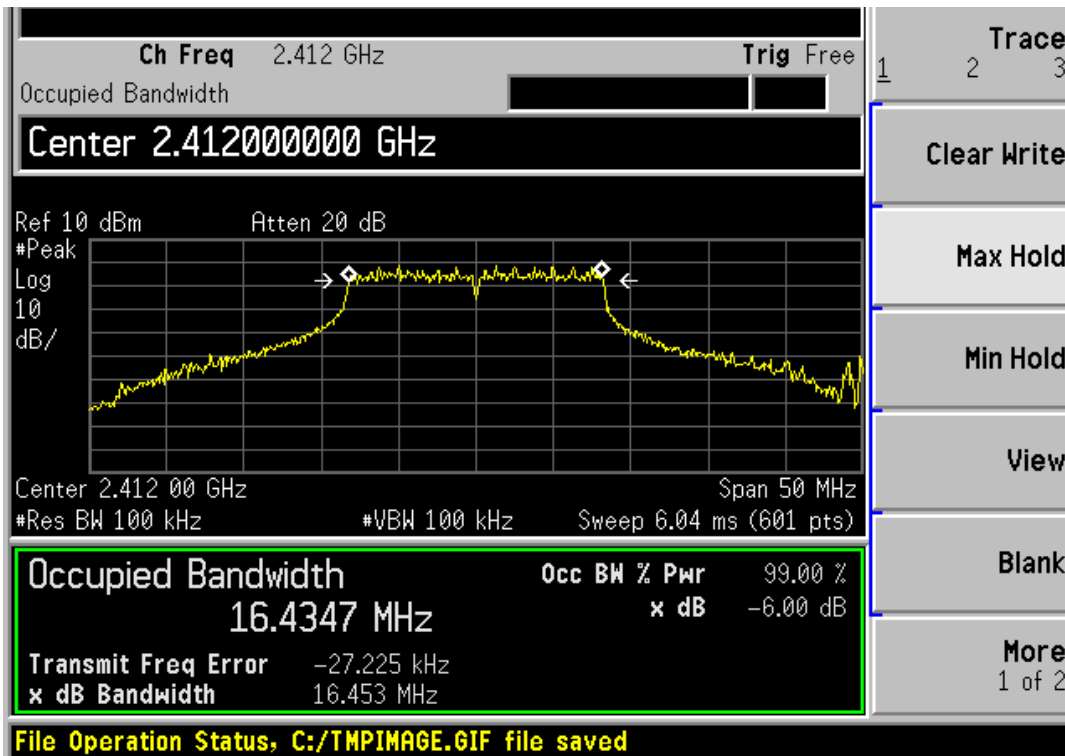
### A.2.2, 802.11b MID CHANAEL



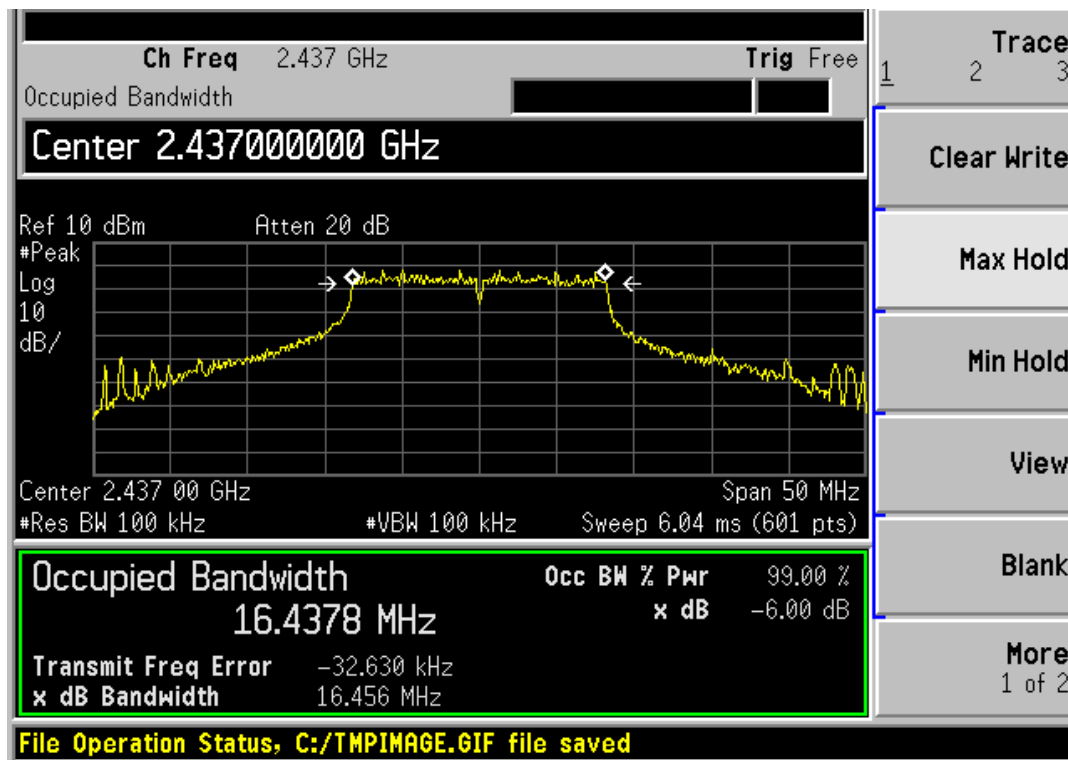
### A.2.3, 802.11b HIGH CHANNEL



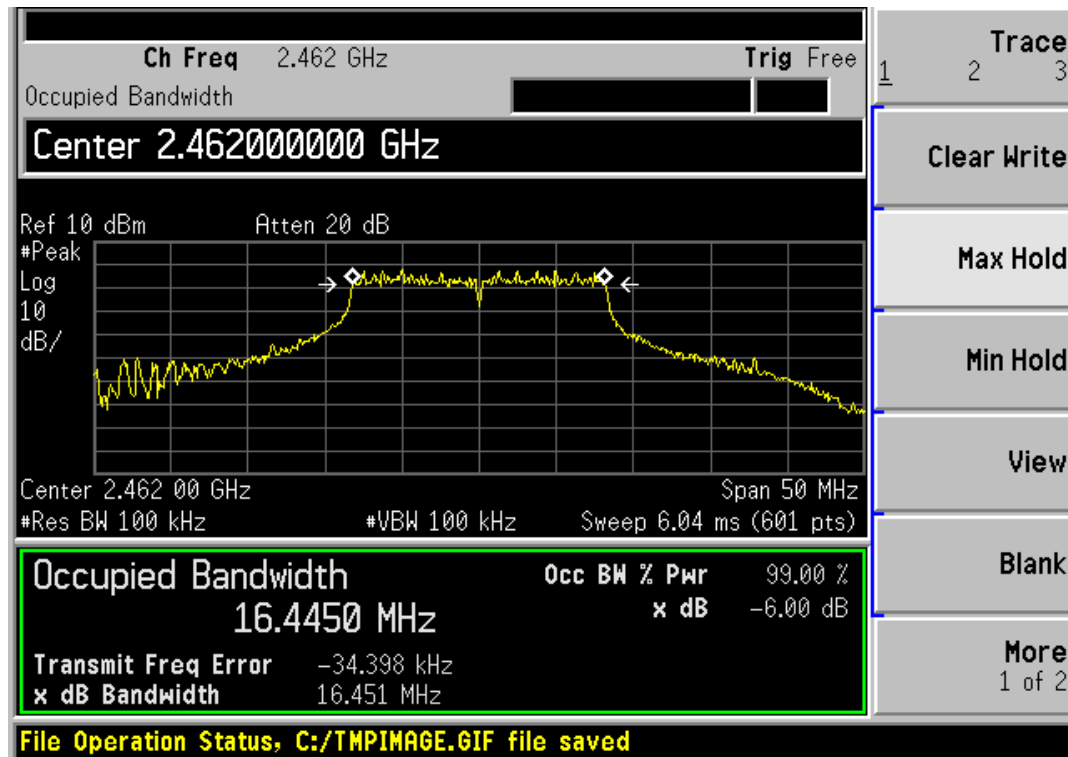
### A.2.4, 802.11g LOW CHANNEL



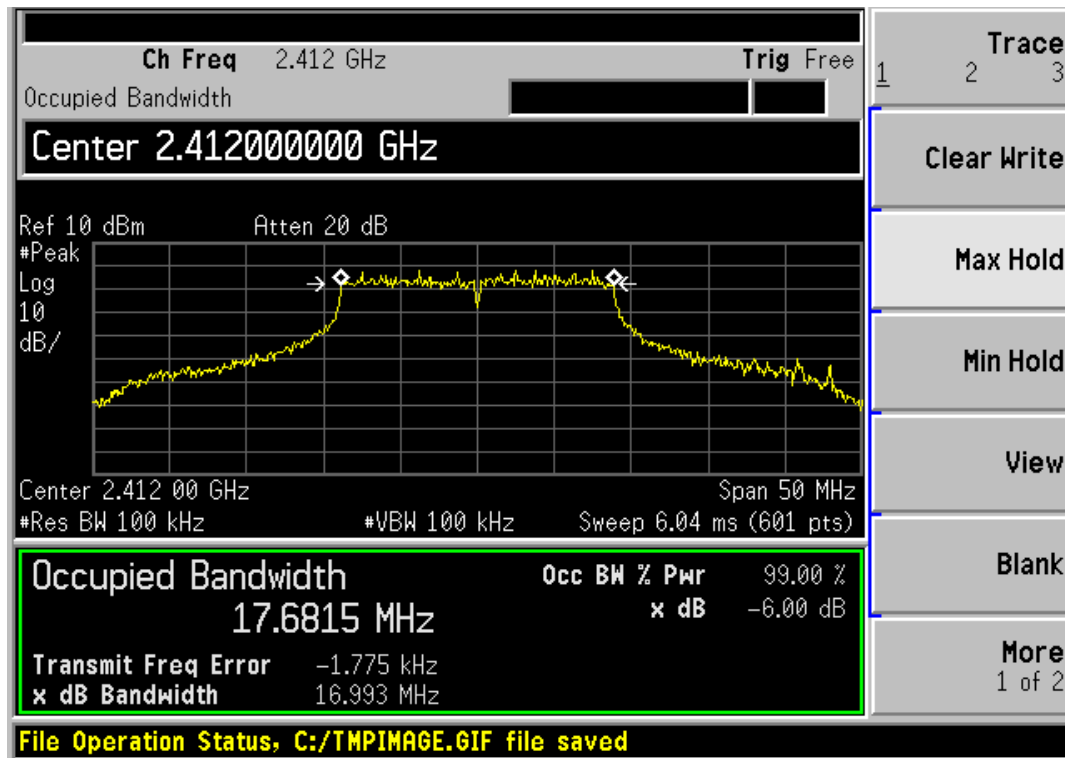
### A.2.5, 802.11g MID CHANAEL



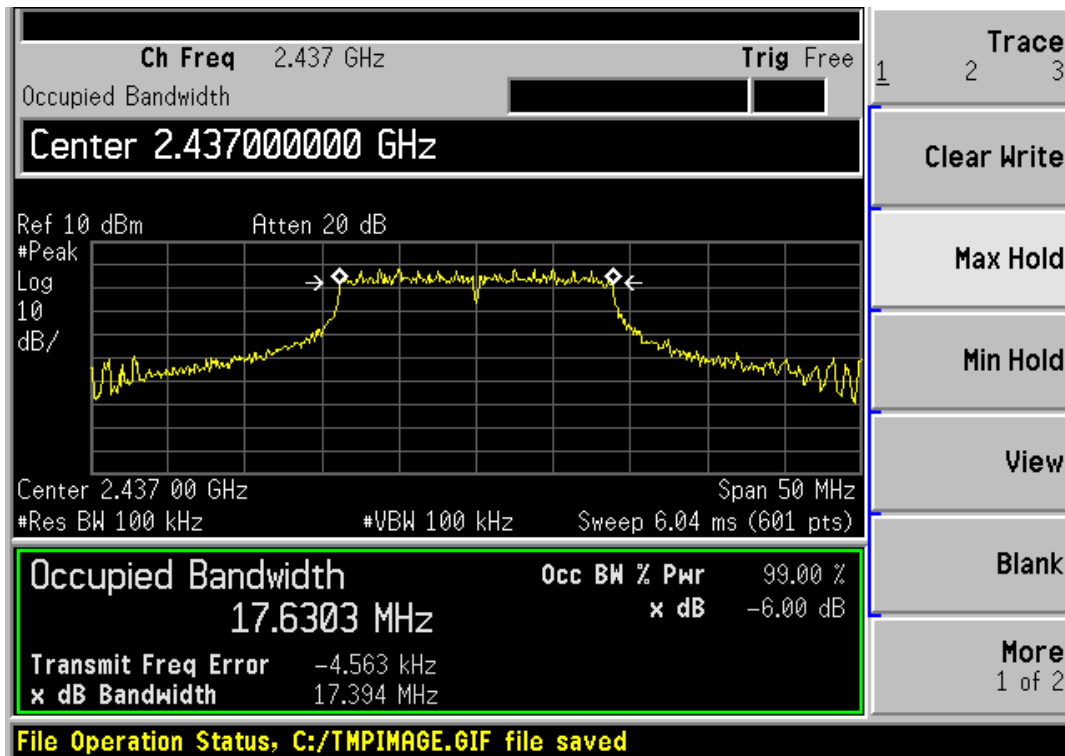
### A.2.6, 802.11g HIGH CHANNEL



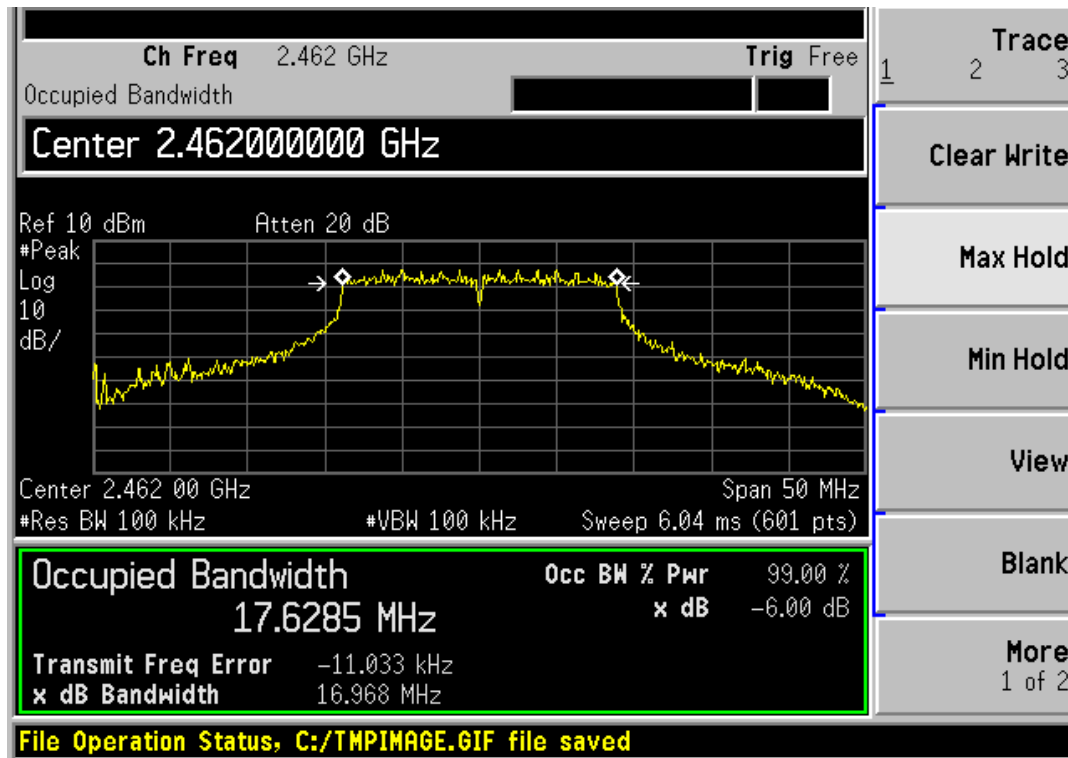
### A.2.7, 802.11n-20MHz LOW CHANNEL



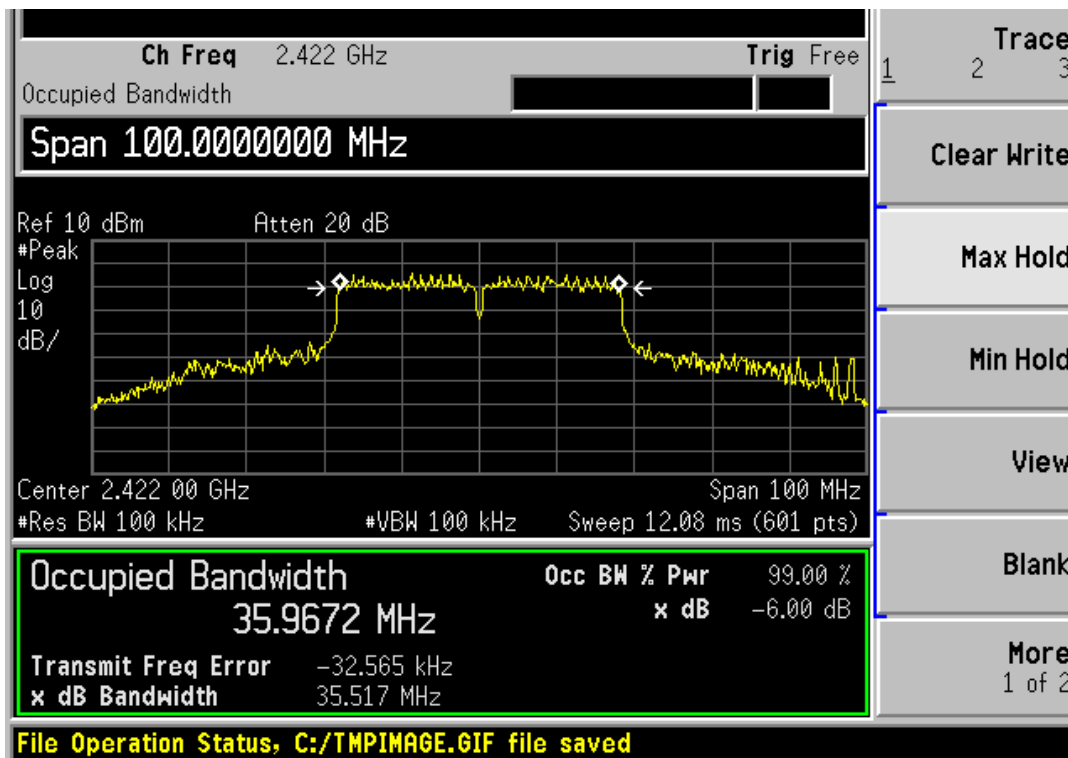
### A.2.8, 802.11n-20MHz MID CHANAEL



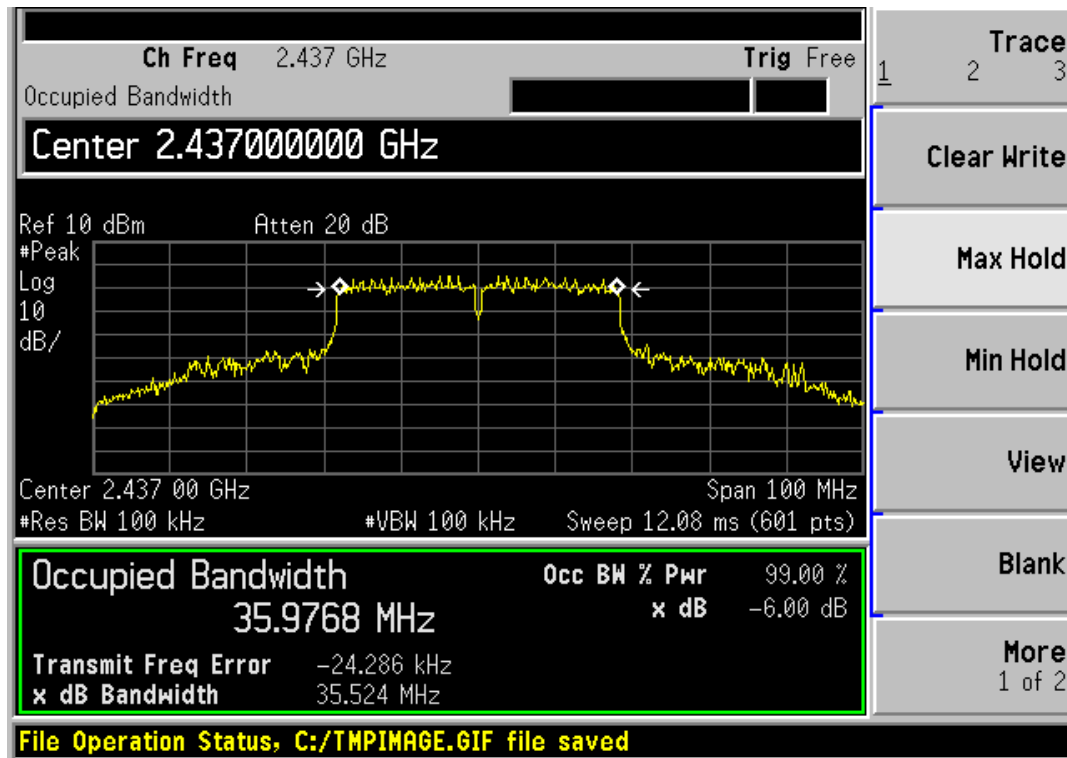
### A.2.9, 802.11n-20MHz HIGH CHANNEL



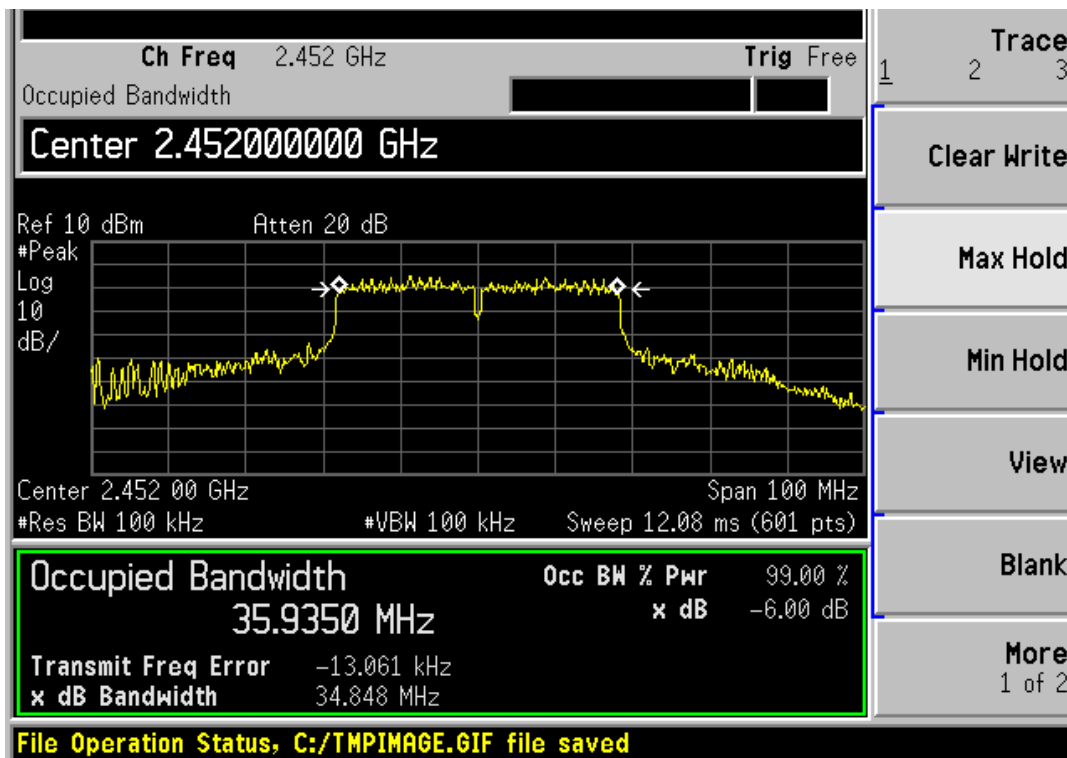
### A.2.10, 802.11n-40MHz LOW CHANNEL



### A.2.11, 802.11n-40MHz MID CHANAEL



### A.2.12, 802.11n-40MHz HIGH CHANNEL



### A.3 Conducted Spurious Emissions

#### Test Data

802.11b Mode:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm)   |                         | Verdict |
|---------|-----------------|------------------------------------------|---------------|-------------------------|---------|
|         |                 |                                          | Carrier Level | Calculated 20 dBc Limit |         |
| 1       | 2412            | -48.28                                   | 2.94          | -17.03                  | PASS    |
| 6       | 2437            | -50.85                                   | 0.07          | -19.93                  | PASS    |
| 11      | 2462            | -42.73                                   | 0.00          | -20.00                  | PASS    |

802.11g Mode:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm)   |                         | Verdict |
|---------|-----------------|------------------------------------------|---------------|-------------------------|---------|
|         |                 |                                          | Carrier Level | Calculated 20 dBc Limit |         |
| 1       | 2412            | -54.06                                   | -7.04         | -27.04                  | PASS    |
| 6       | 2437            | -52.91                                   | -3.21         | -23.21                  | PASS    |
| 11      | 2462            | -53.55                                   | -4.00         | -24.00                  | PASS    |

802.11n-20MHz Mode:

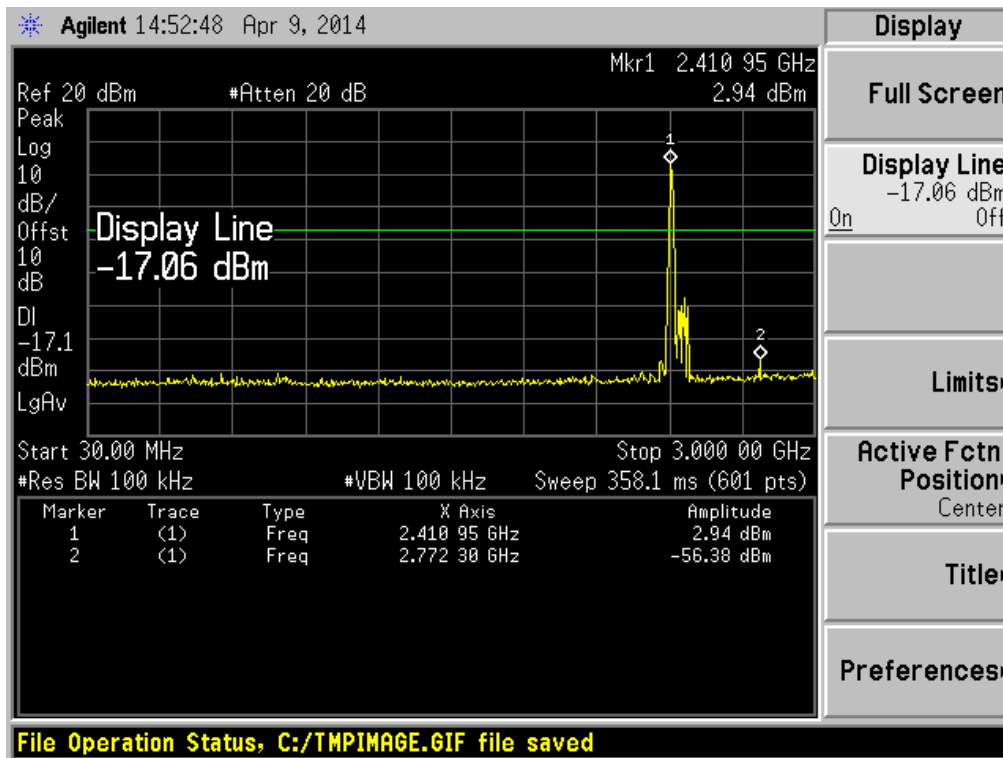
| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm)   |                         | Verdict |
|---------|-----------------|------------------------------------------|---------------|-------------------------|---------|
|         |                 |                                          | Carrier Level | Calculated 20 dBc Limit |         |
| 0       | 2412            | -52.36                                   | -3.75         | -23.75                  | PASS    |
| 39      | 2437            | -54.66                                   | -4.62         | -24.62                  | PASS    |
| 78      | 2462            | -50.41                                   | -4.36         | -24.36                  | PASS    |

802.11n-40MHz Mode:

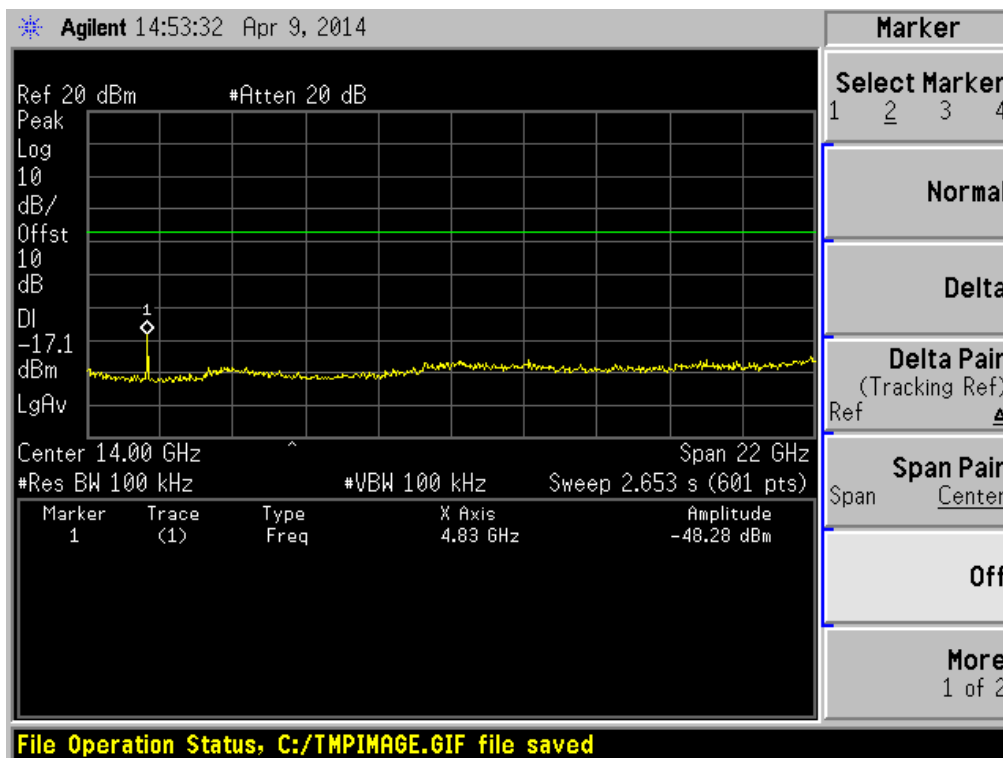
| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm)   |                         | Verdict |
|---------|-----------------|------------------------------------------|---------------|-------------------------|---------|
|         |                 |                                          | Carrier Level | Calculated 20 dBc Limit |         |
| 3       | 2422            | -53.37                                   | -5.23         | -25.23                  | PASS    |
| 6       | 2437            | -51.72                                   | -5.95         | -25.95                  | PASS    |
| 9       | 2452            | -54.53                                   | -5.49         | -25.49                  | PASS    |

## Test Plots

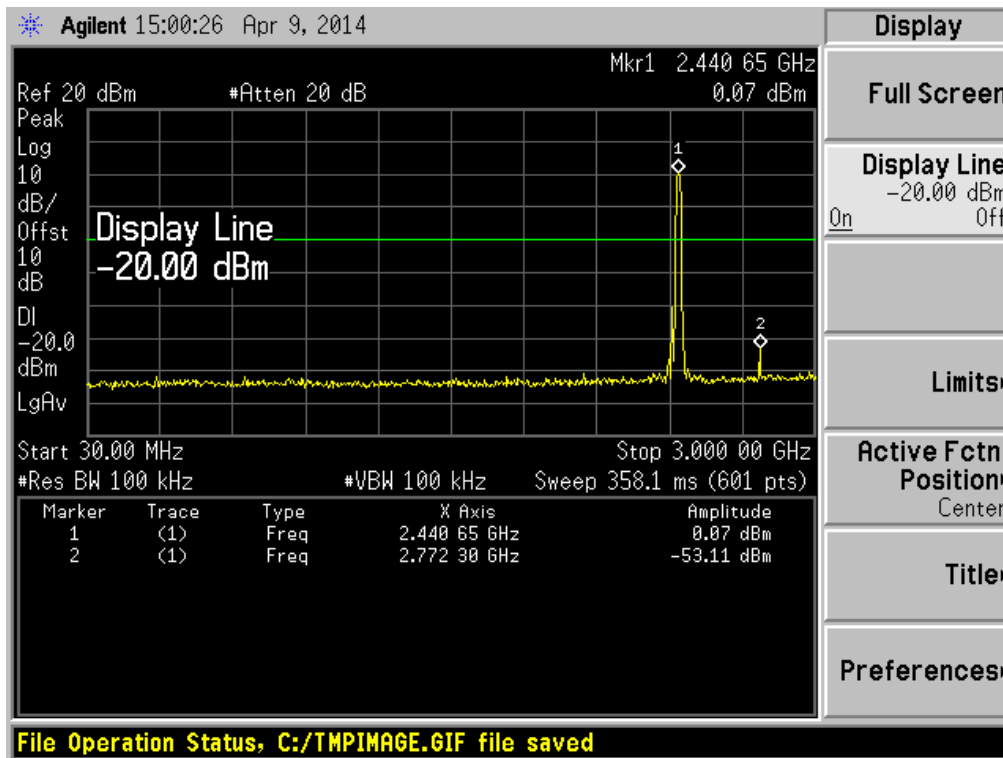
### A.3.1, 802.11B LOW CHANNEL , SPURIOUS 30MHz~3GHz



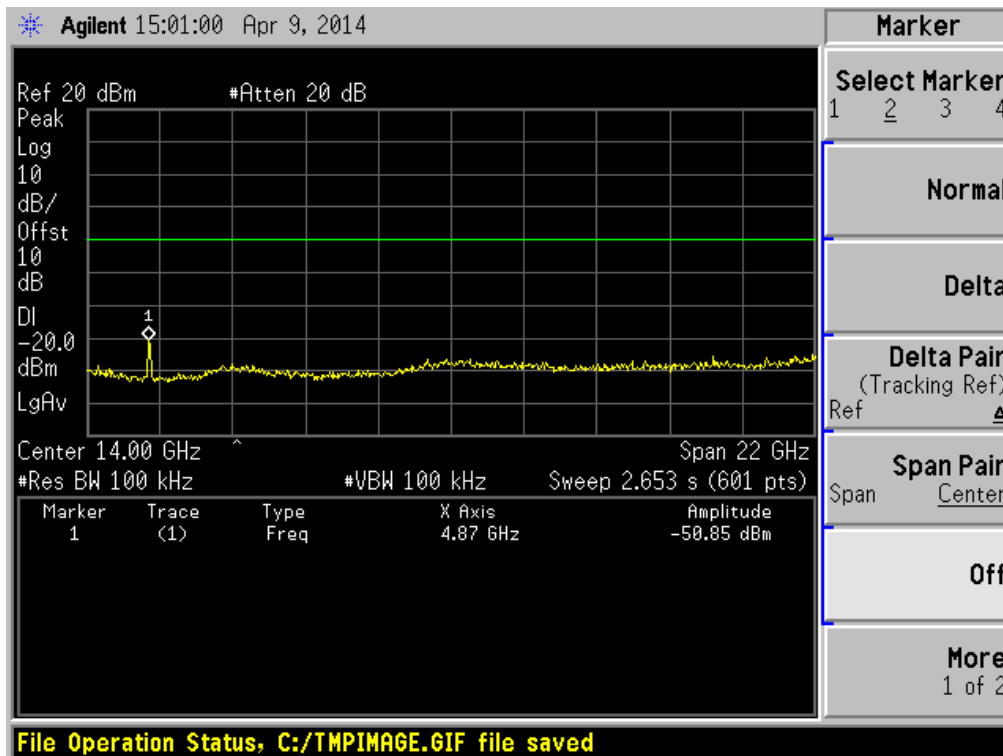
### A.3.2, 802.11B LOW CHANNEL , SPURIOUS 3GHz~25GHz



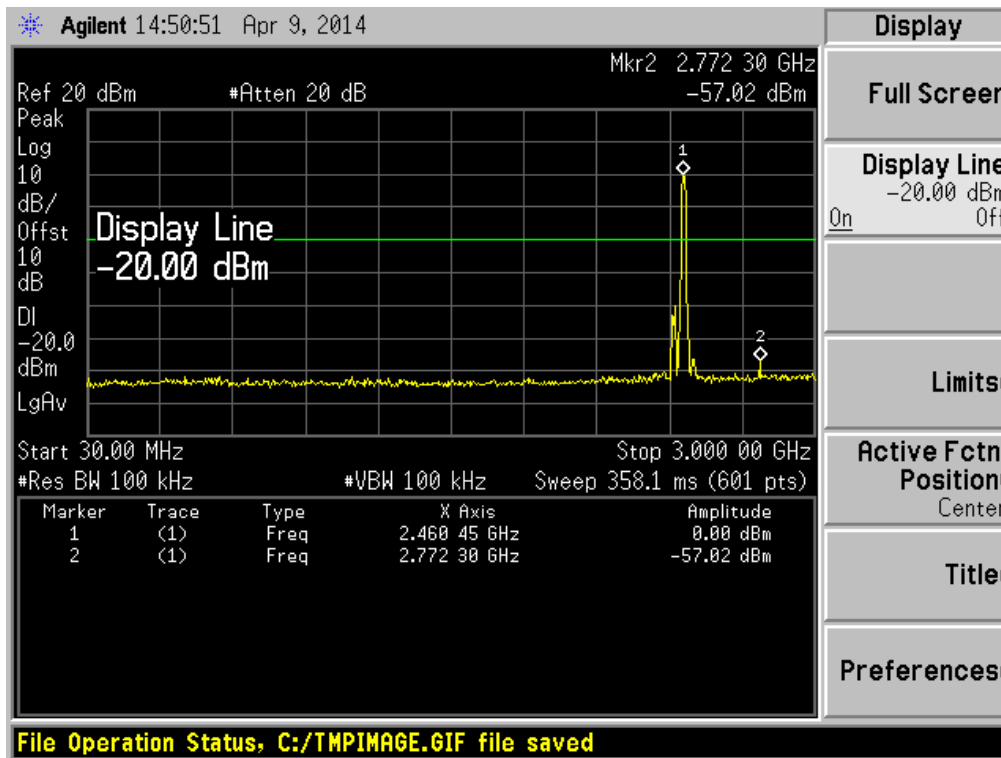
### A.3.3, 802.11B MID CHANNEL , SPURIOUS 30MHz~3GHz



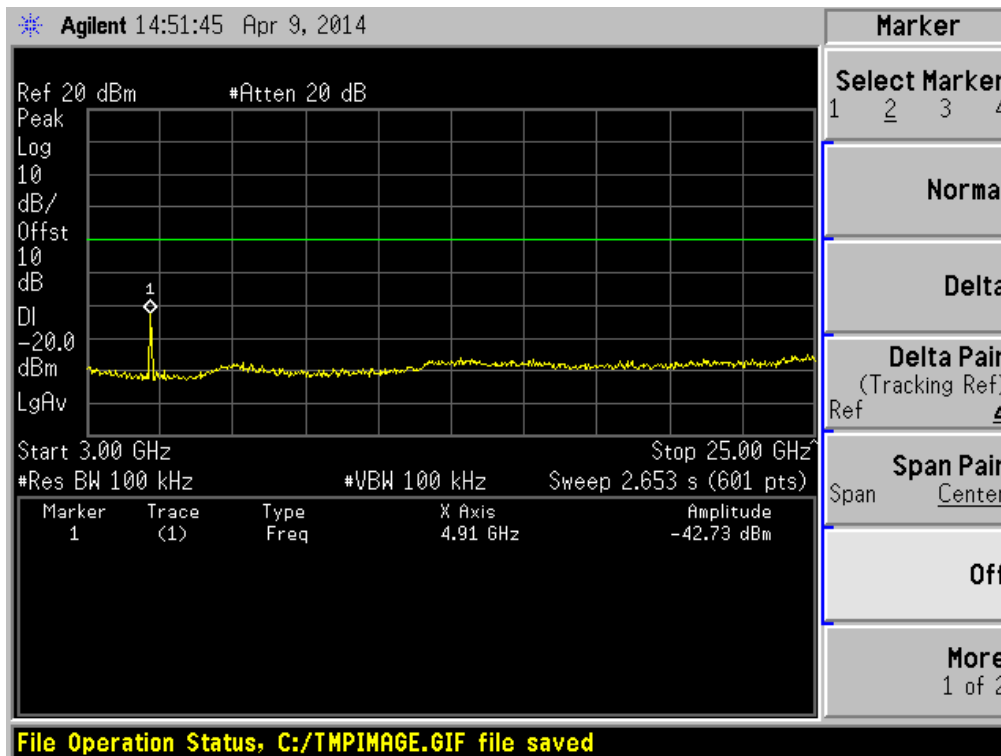
### A.3.4, 802.11B MID CHANNEL , SPURIOUS 3GHz~25GHz



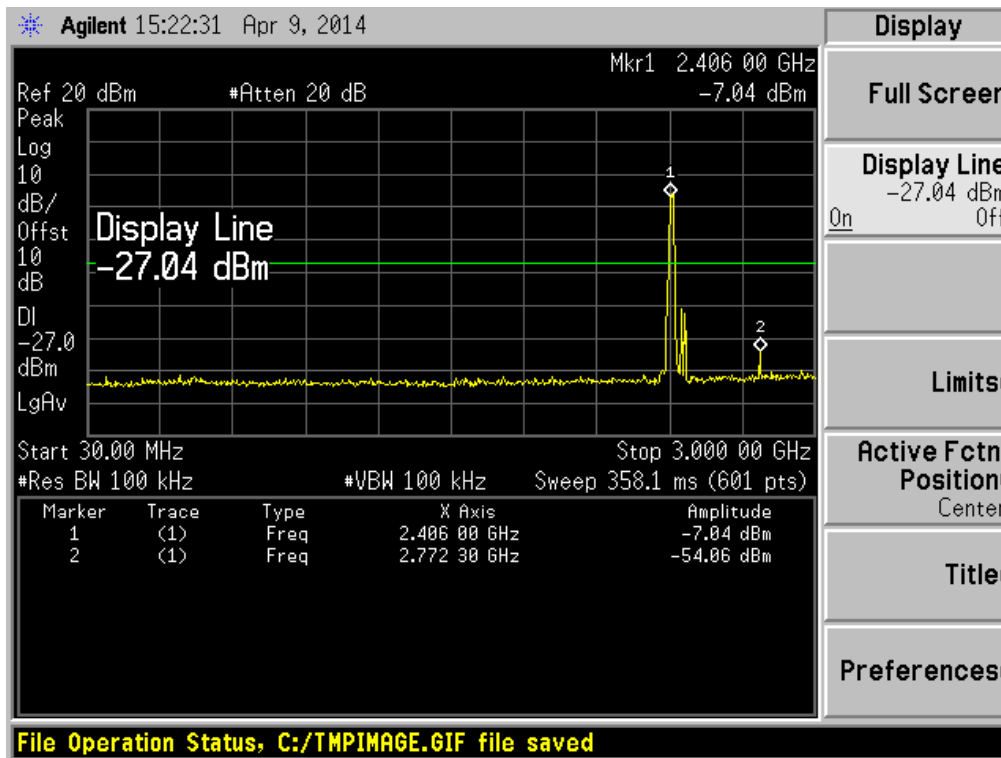
### A.3.5, 802.11B HIGH CHANNEL , SPURIOUS 30MHz~3GHz



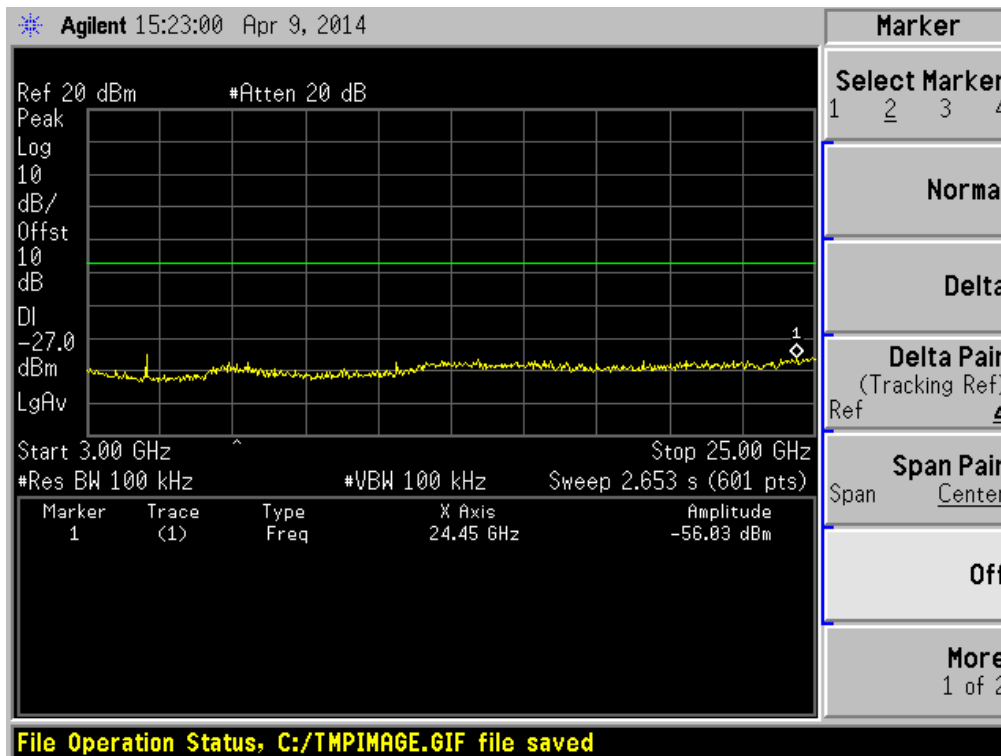
### A.3.6, 802.11B HIGH CHANNEL , SPURIOUS 3GHz~25GHz



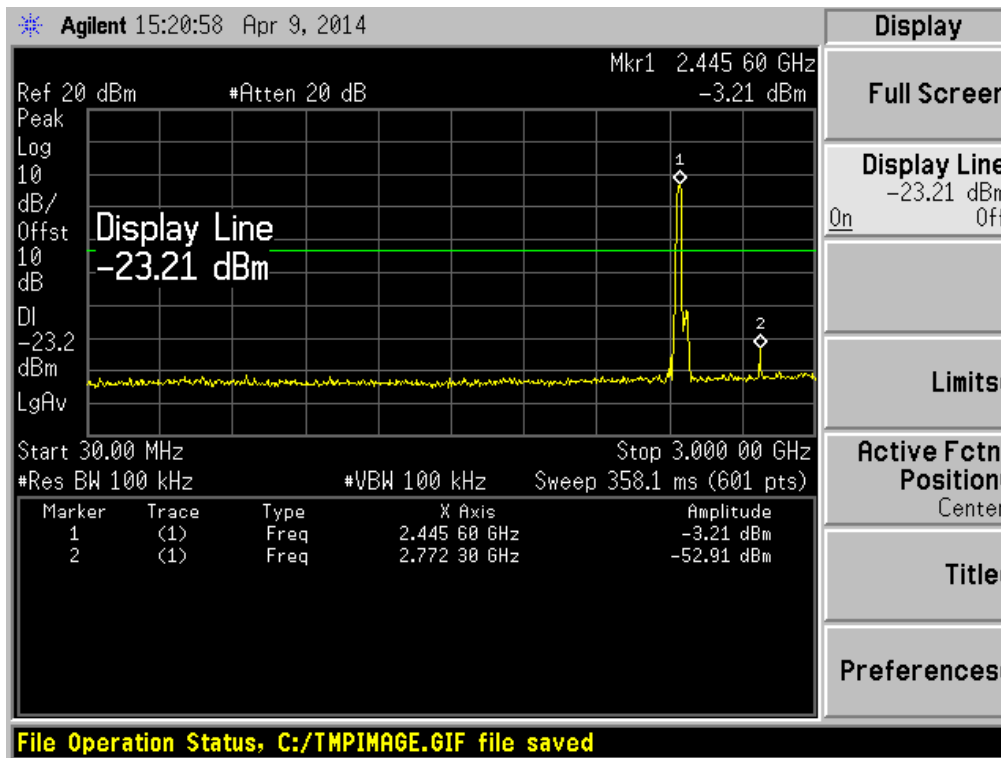
### A.3.7, 802.11g LOW CHANNEL , SPURIOUS 30MHz~3GHz



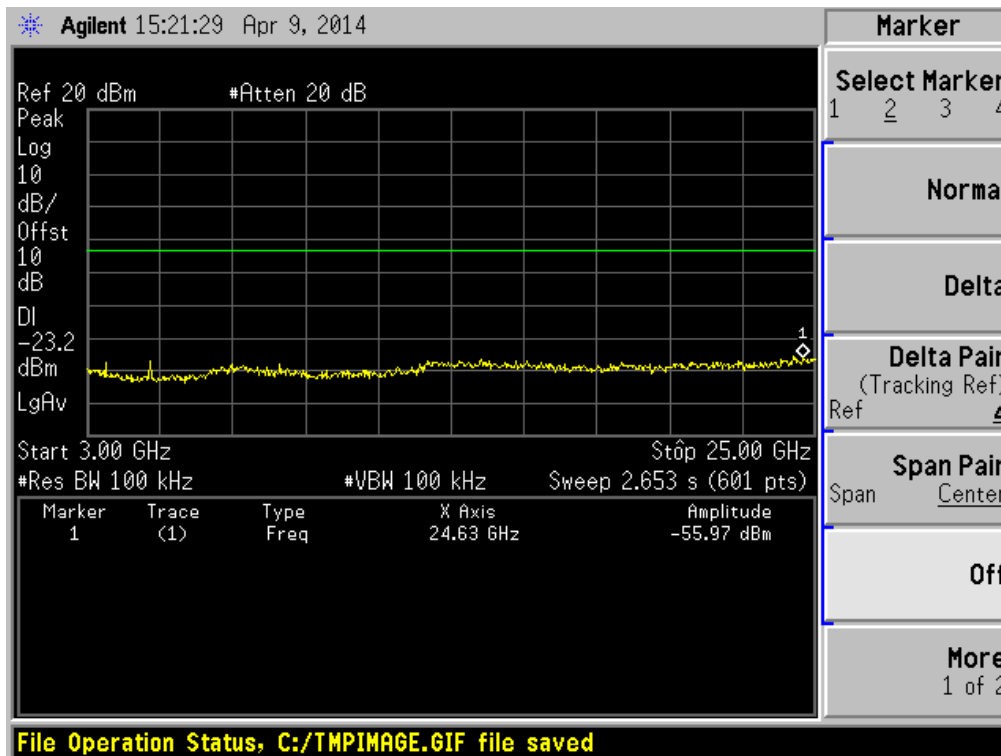
### A.3.8, 802.11g LOW CHANNEL , SPURIOUS 3GHz~25GHz



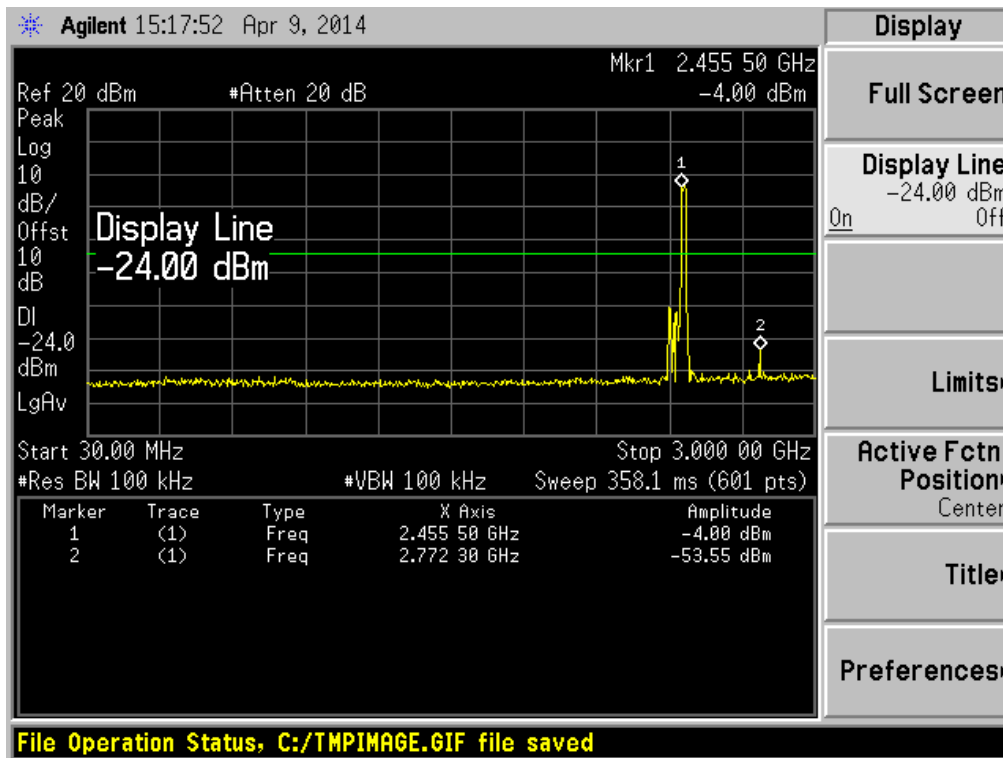
### A.3.9, 802.11g MID CHANNEL , SPURIOUS 30MHz~3GHz



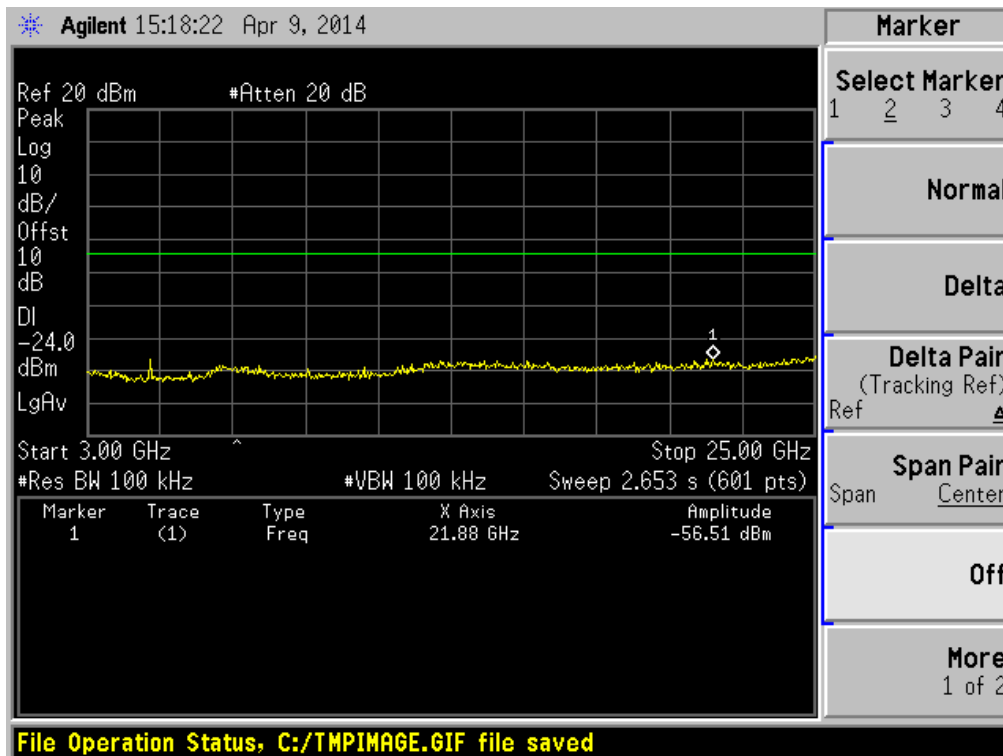
### A.3.10, 802.11g MID CHANNEL , SPURIOUS 3GHz~25GHz



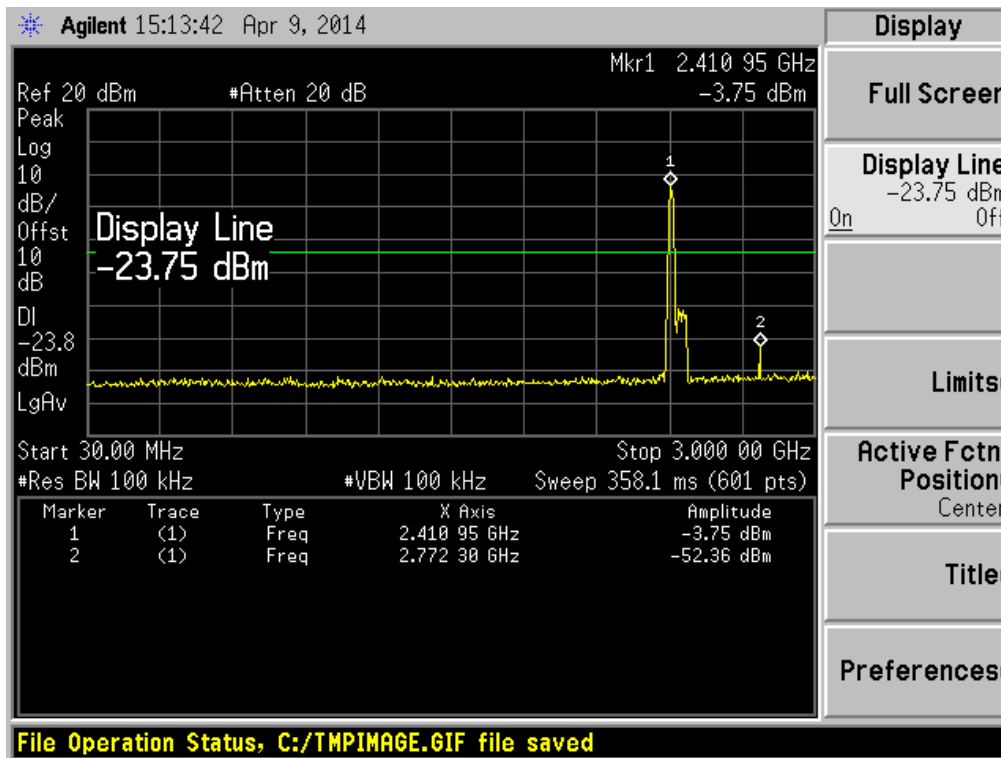
### A.3.11, 802.11g HIGH CHANNEL , SPURIOUS 30MHz~3GHz



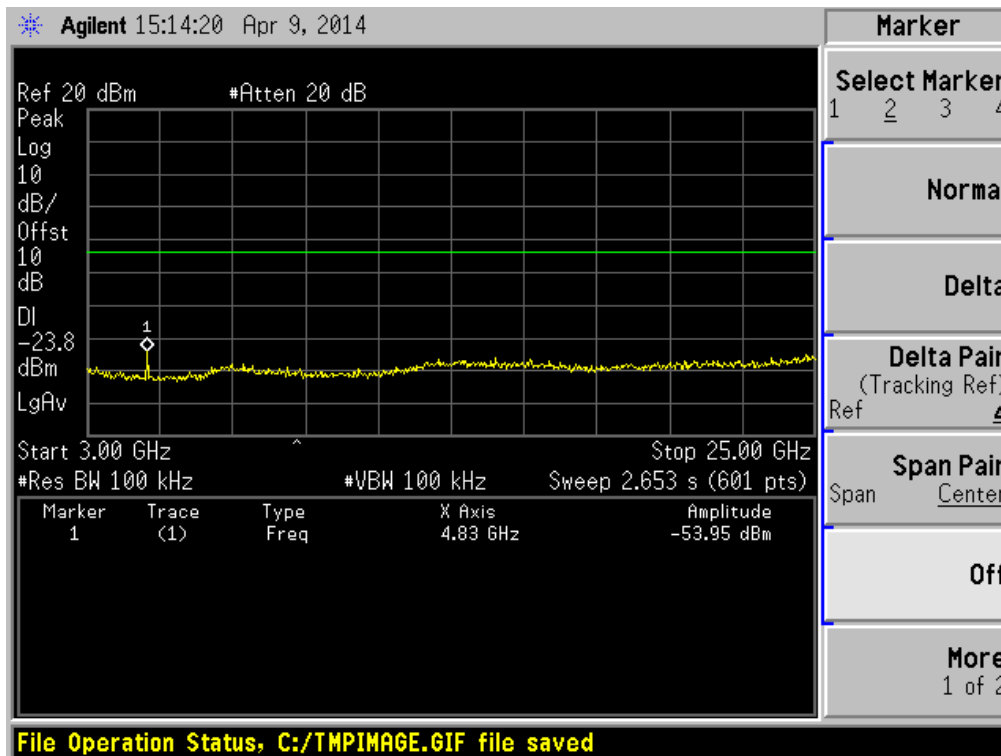
### A.3.12, 802.11g HIGH CHANNEL , SPURIOUS 3GHz~25GHz



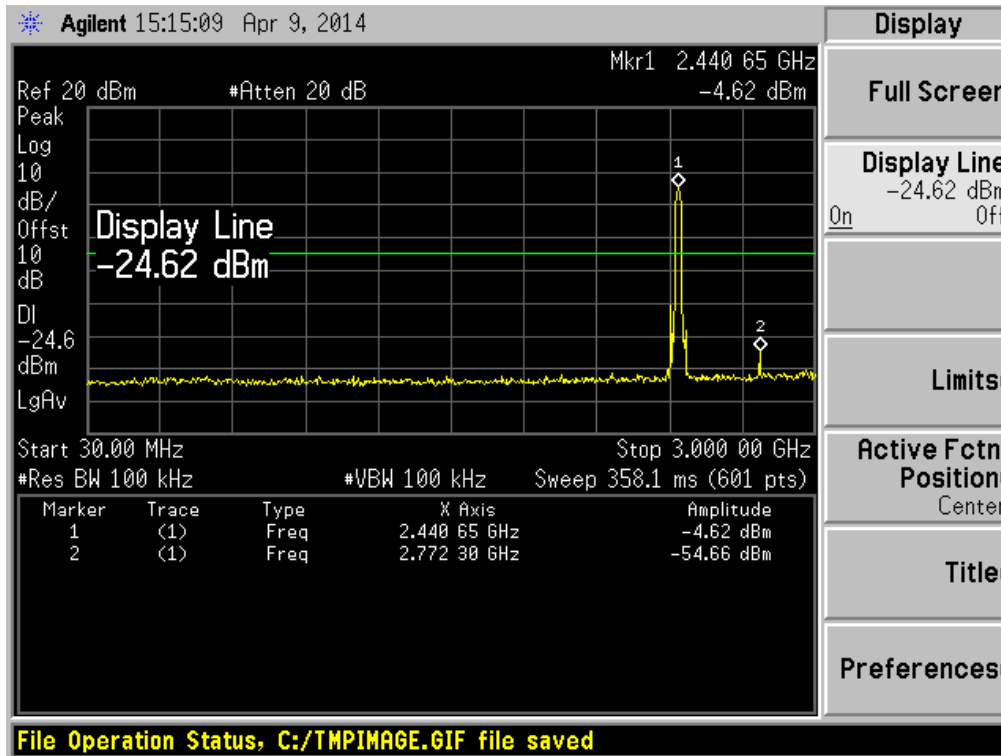
## A.3.13, 802.11n-20MHz LOW CHANNEL , SPURIOUS 30MHz~3GHz



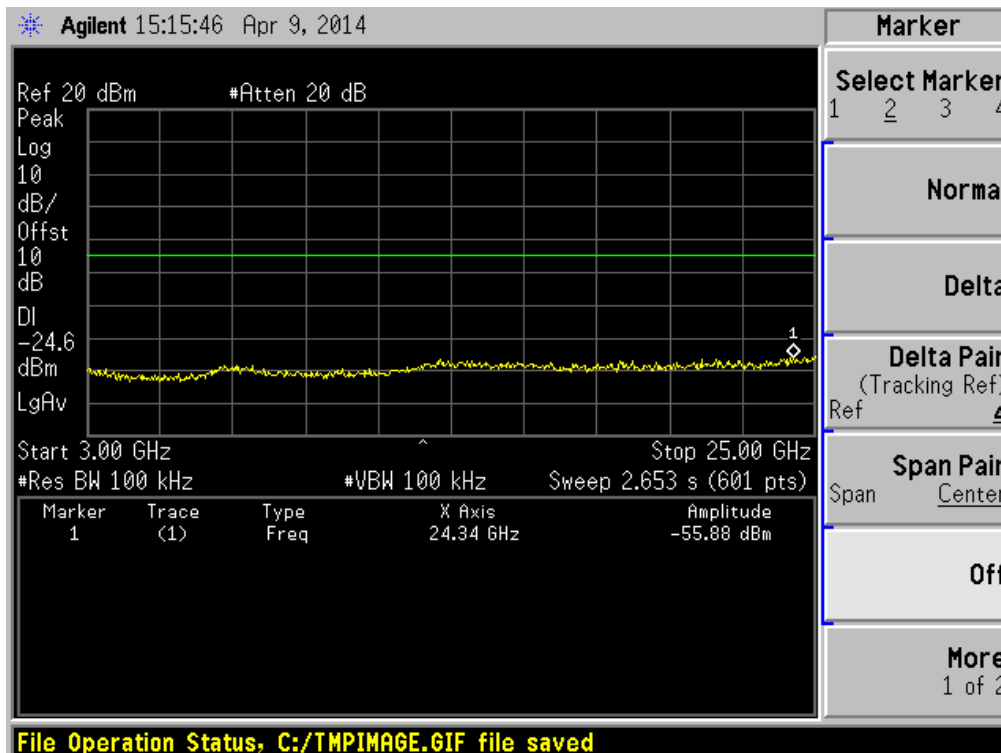
## A.3.14, 802.11n-20MHz LOW CHANNEL , SPURIOUS 3GHz~25GHz



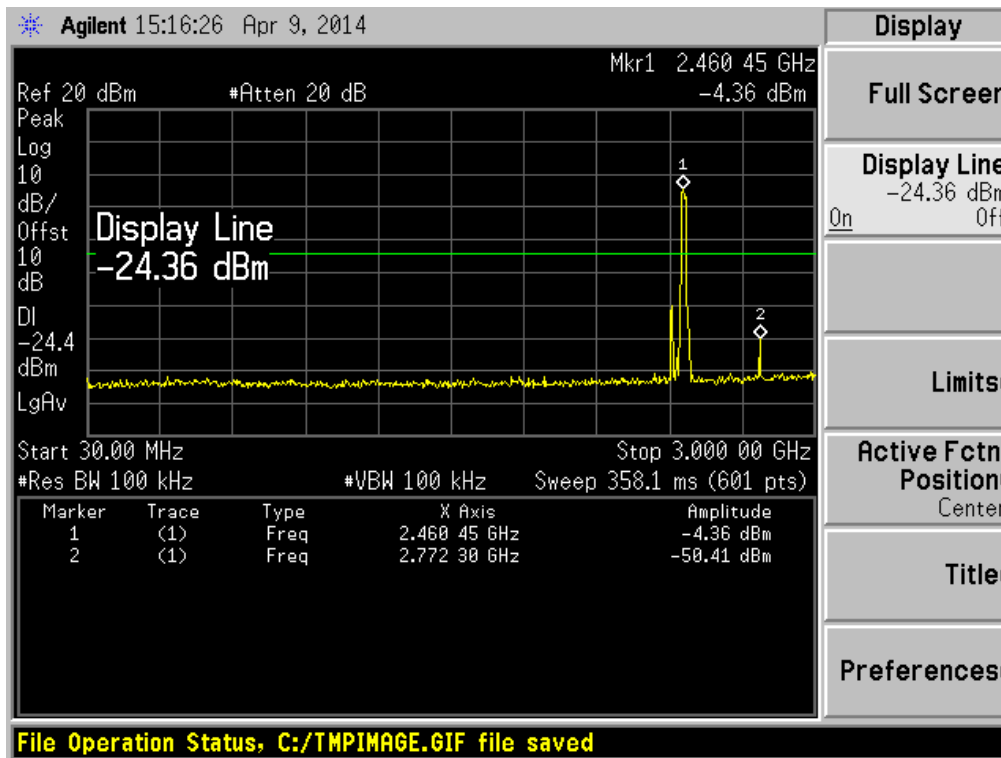
## A.3.15, 802.11n-20MHz MID CHANNEL , SPURIOUS 30MHz~3GHz



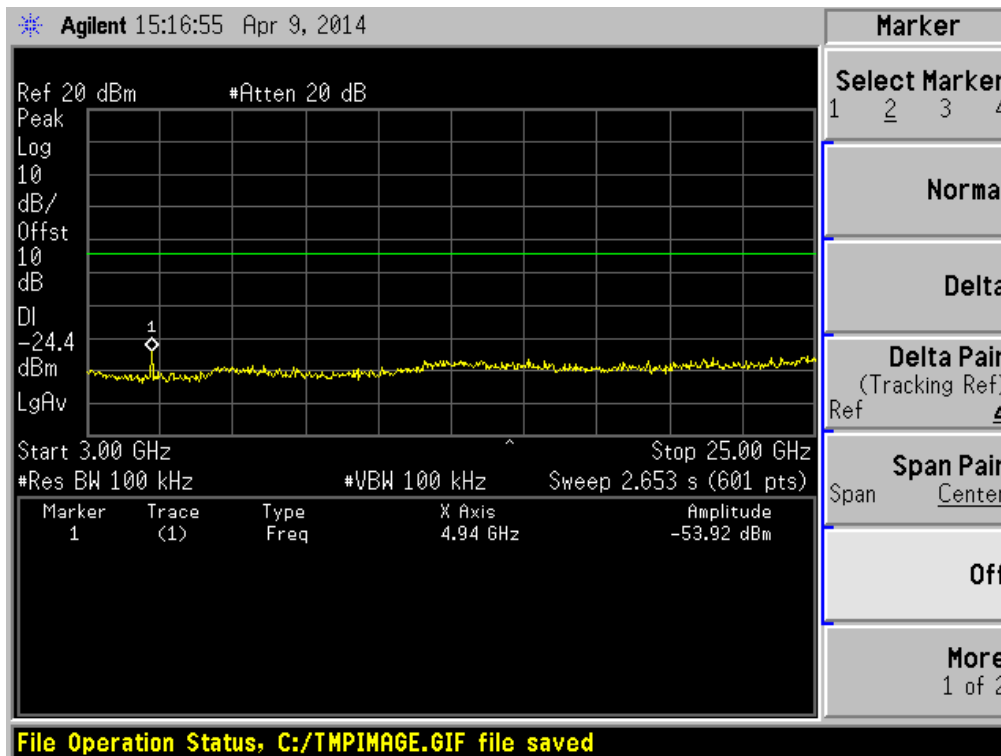
## A.3.16, 802.11n-20MHz MID CHANNEL , SPURIOUS 3GHz~25GHz



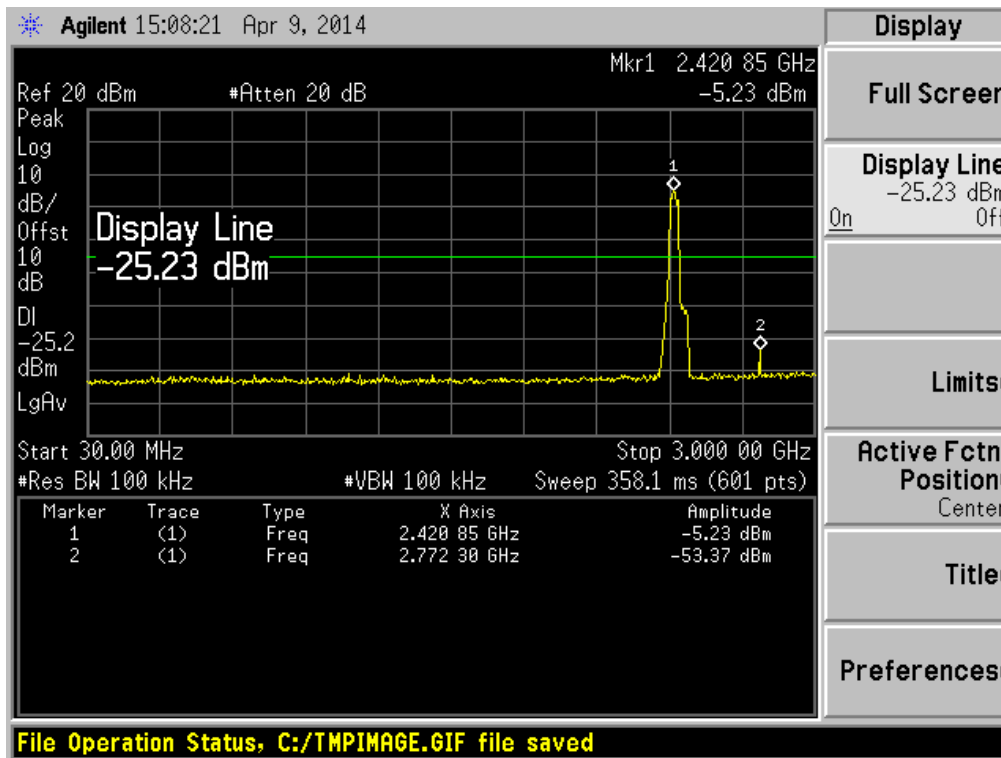
## A.3.17, 802.11n-20MHz HIGH CHANNEL , SPURIOUS 30MHz~3GHz



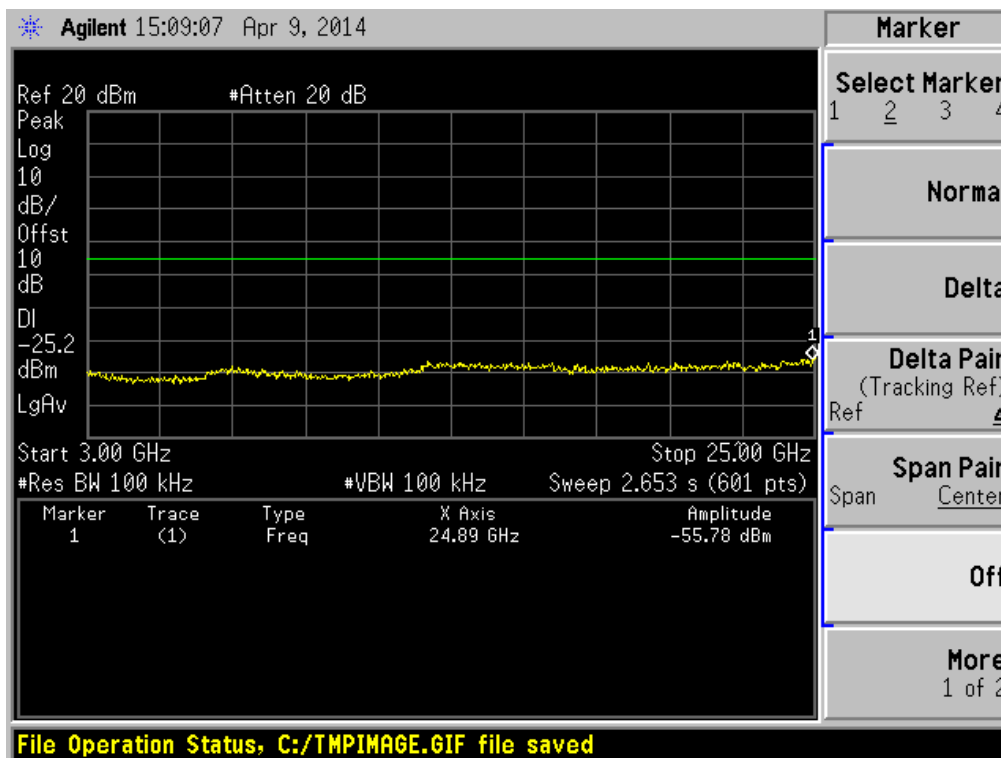
## A.3.18, 802.11n-20MHz HIGH CHANNEL , SPURIOUS 3GHz~25GHz



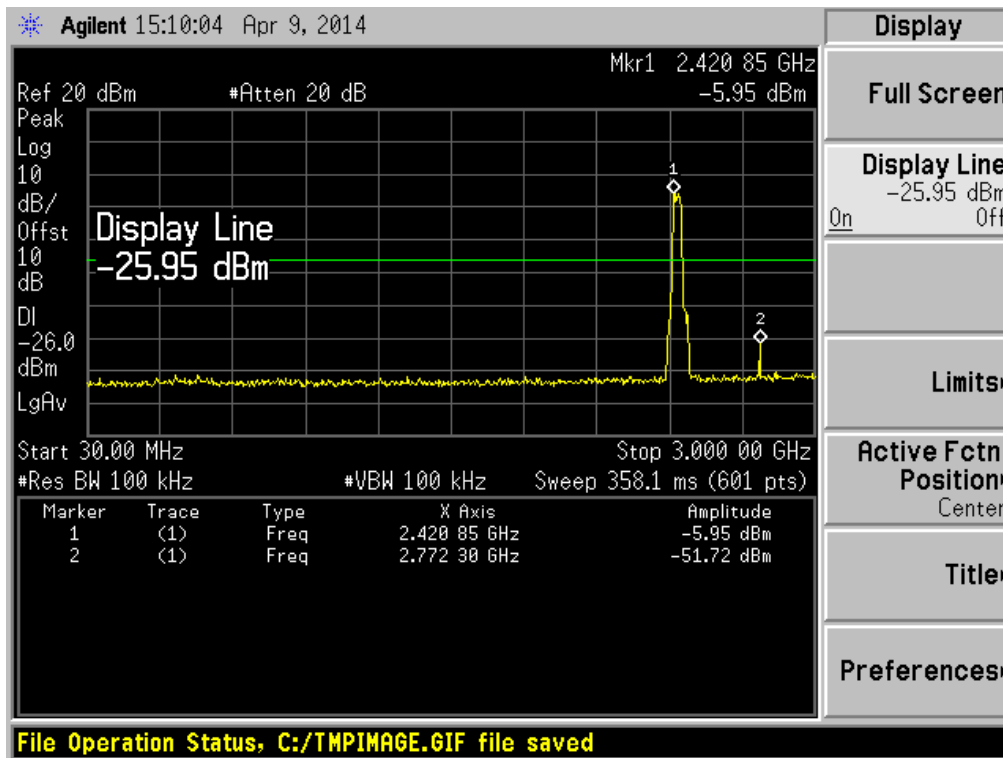
## A.3.19, 802.11n-40MHz LOW CHANNEL , SPURIOUS 30MHz~3GHz



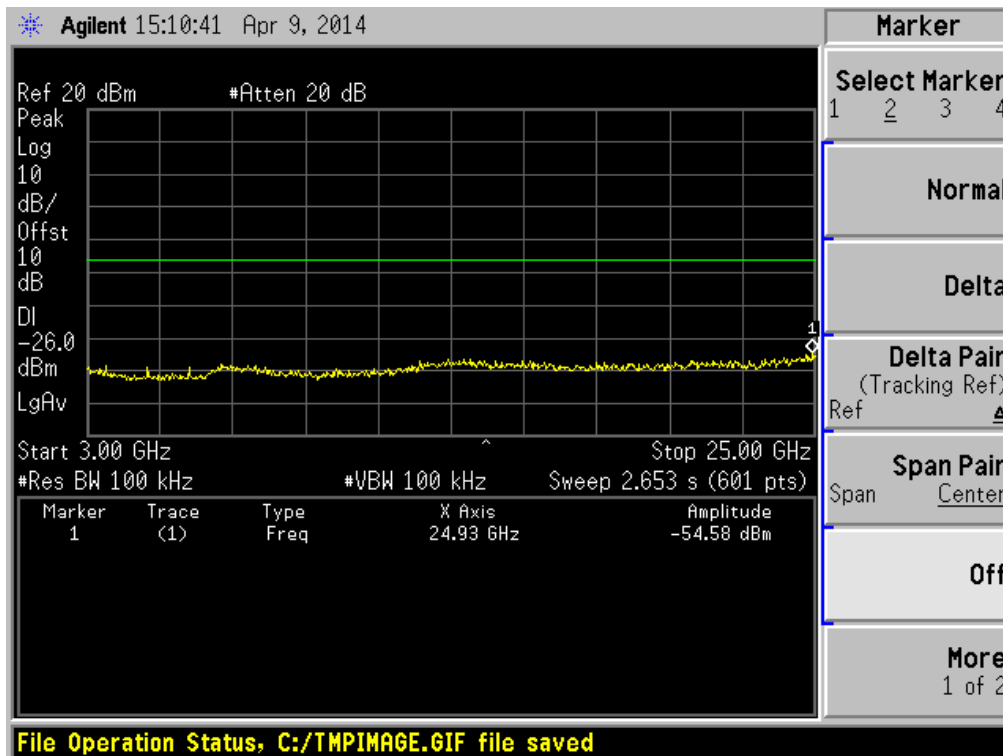
## A.3.20, 802.11n-40MHz LOW CHANNEL , SPURIOUS 3GHz~25GHz



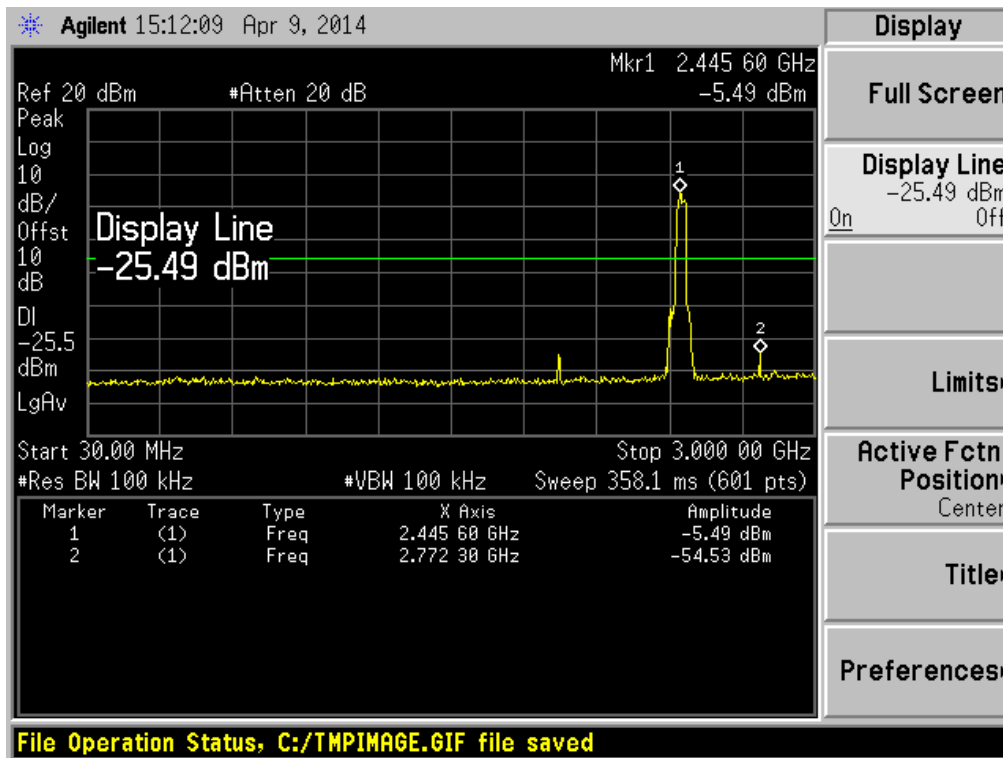
## A.3.21, 802.11n-40MHz MID CHANNEL , SPURIOUS 30MHz~3GHz



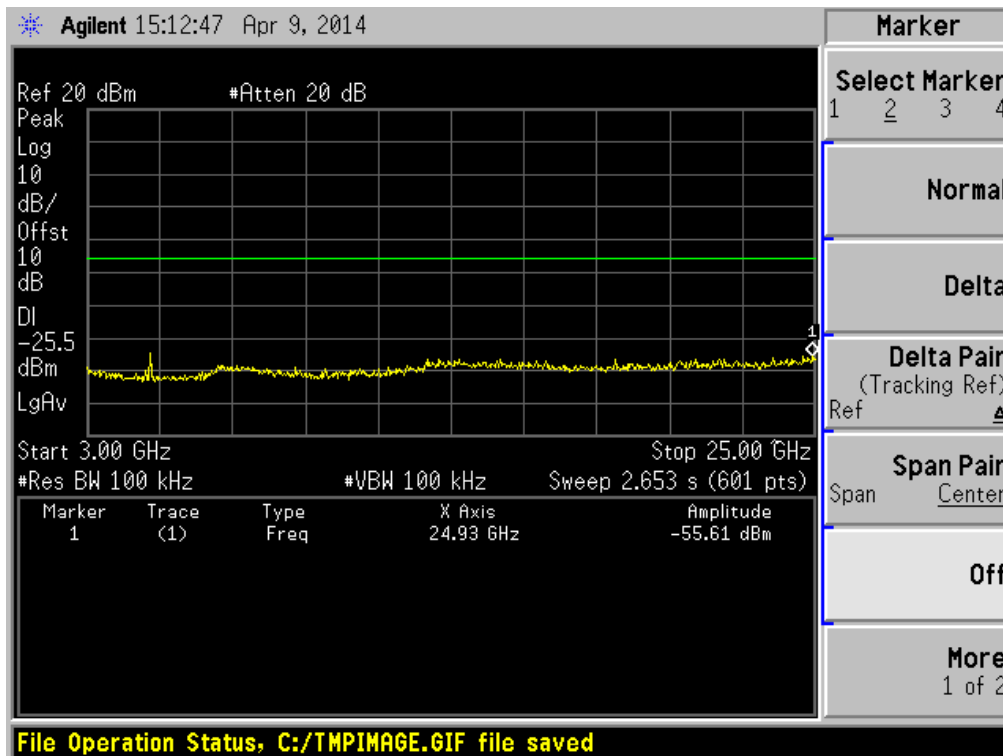
## A.3.22, 802.11n-40MHz MID CHANNEL , SPURIOUS 3GHz~25GHz



### A.3.23, 802.11n-40MHz HIGH CHANNEL , SPURIOUS 30MHz~3GHz



### A.3.24, 802.11n-40MHz HIGH CHANNEL , SPURIOUS 3GHz~25GHz



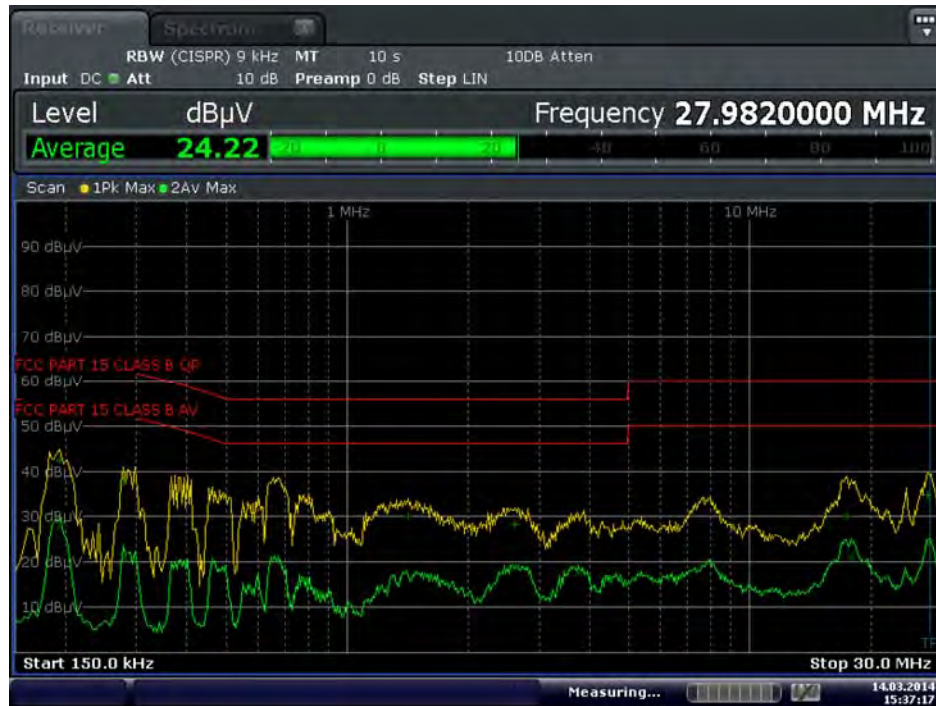
#### A.4 Conducted Emissions

##### Test Data

| No. | Fre. (MHz) | Measurement Level (dBuV) | Limit (dBuV) | Margin (dB) | Phase | Detector | Verdict |
|-----|------------|--------------------------|--------------|-------------|-------|----------|---------|
| 1   | 0.194      | 42.61                    | 64.74        | -22.13      | L     | QP       | PASS    |
| 2   | 0.194      | 28.04                    | 54.74        | -26.70      | L     | AV       | PASS    |
| 3   | 0.278      | 37.53                    | 62.34        | -24.81      | L     | QP       | PASS    |
| 4   | 0.278      | 21.01                    | 52.34        | -31.33      | L     | AV       | PASS    |
| 5   | 1.422      | 30.18                    | 56.00        | -25.82      | L     | QP       | PASS    |
| 6   | 2.610      | 28.16                    | 56.00        | -27.84      | L     | QP       | PASS    |
| 7   | 2.634      | 18.62                    | 46.00        | -27.38      | L     | AV       | PASS    |
| 8   | 3.746      | 17.62                    | 46.00        | -28.38      | L     | AV       | PASS    |
| 9   | 17.454     | 30.11                    | 60.00        | -29.89      | L     | QP       | PASS    |
| 10  | 17.886     | 21.34                    | 50.00        | -28.66      | L     | AV       | PASS    |
| 11  | 27.762     | 34.65                    | 60.00        | -25.35      | L     | QP       | PASS    |
| 12  | 27.982     | 24.14                    | 50.00        | -25.86      | L     | AV       | PASS    |
|     |            |                          |              |             |       |          |         |
| No. | Fre. (MHz) | Measurement Level (dBuV) | Limit (dBuV) | Margin (dB) | Phase | Detector | Verdict |
| 1   | 0.182      | 41.63                    | 65.09        | -23.46      | N     | QP       | PASS    |
| 2   | 0.190      | 25.94                    | 54.86        | -28.92      | N     | AV       | PASS    |
| 3   | 0.674      | 23.4                     | 46.00        | -22.60      | N     | AV       | PASS    |
| 4   | 0.682      | 38.98                    | 56.00        | -17.02      | N     | QP       | PASS    |
| 5   | 1.442      | 32.74                    | 56.00        | -23.26      | N     | QP       | PASS    |
| 6   | 2.370      | 19.85                    | 46.00        | -26.15      | N     | AV       | PASS    |
| 7   | 2.534      | 30.01                    | 56.00        | -25.99      | N     | QP       | PASS    |
| 8   | 3.762      | 20.58                    | 46.00        | -25.42      | N     | AV       | PASS    |
| 9   | 7.934      | 18.78                    | 50.00        | -31.22      | N     | AV       | PASS    |
| 10  | 17.278     | 26.91                    | 60.00        | -33.09      | N     | QP       | PASS    |
| 11  | 17.318     | 26.15                    | 60.00        | -33.85      | N     | QP       | PASS    |
| 12  | 28.010     | 20.79                    | 50.00        | -29.21      | N     | AV       | PASS    |

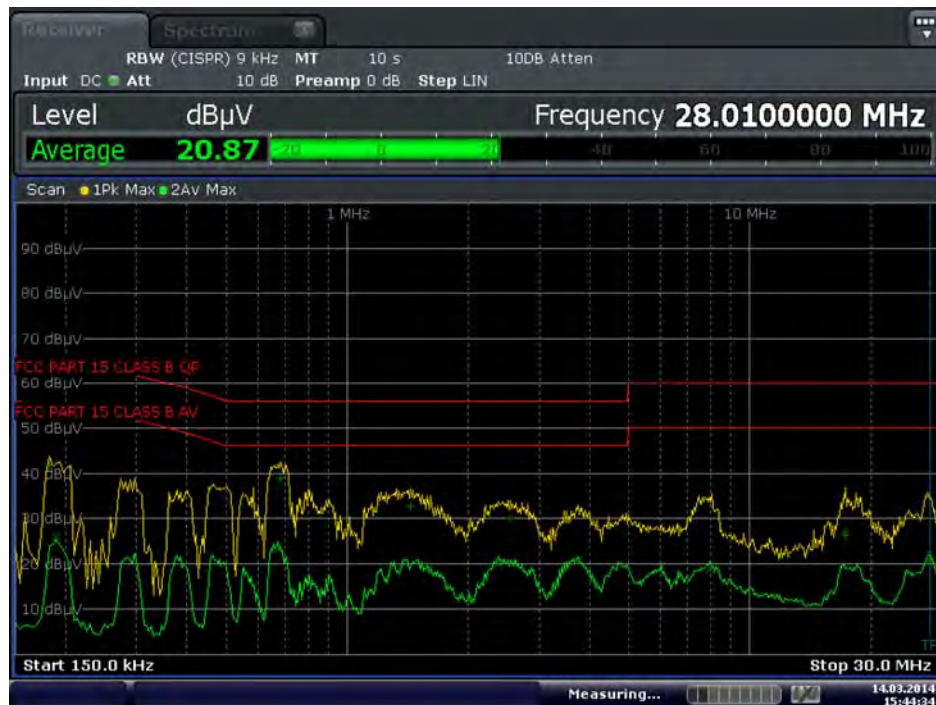
## Test Plots

### A.7.1, PHASE L



Date: 14.MAR.2014 15:37:17

### A.7.2, PHASE N



Date: 14.MAR.2014 15:44:34

## A.5 Radiated Emission

### Test Data

| 802.11B Mode-Low Channel |           |           |           |                |                |                |            |         |
|--------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| Fre. (MHz)               | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                    | 28.34     | --        | --        | --             | 110.8          | --             | --         | Pass    |
| 0.136                    | 24.58     | --        | --        | --             | 104.9          | --             | --         | Pass    |
| 0.166                    | 31.20     | --        | --        | --             | 103.2          | --             | --         | Pass    |
| 0.339                    | 19.48     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 3.000                    | 17.45     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                   | 26.44     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 63.942                   | 34.33     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                  | 39.19     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 223.952                  | 41.22     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 395.841                  | 42.95     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                  | 38.79     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                  | 39.26     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 32.424                   | 33.27     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 63.942                   | 33.65     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.703                  | 40.24     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 230.012                  | 35.02     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                  | 43.38     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                  | 41.20     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1187.953                 | 52.02     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1727.818                 | 38.10     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1980.255                 | 45.35     | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2411.647                 | 105.92    | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2772.557                 | 45.86     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4823.544                 | 53.99     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1187.953                 | 49.01     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1472.382                 | 37.51     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1980.255                 | 46.55     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2413.647                 | 100.49    | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2772.557                 | 45.05     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4823.544                 | 57.01     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7106.489                 | 48.57     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8276.206                 | 47.81     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 9319.468                 | 47.76     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 11564.060                | 47.74     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 15673.877                | 49.55     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 20858.569                | 48.63     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 22407.654                | 48.90     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 18108.153                | 46.65     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 13966.722                | 49.66     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 11279.534                       | 46.70     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|---------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 9161.398                        | 47.67     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 6727.121                        | 48.25     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| <b>802.11B Mode-Mid Channel</b> |           |           |           |                |                |                |            |         |
| Fre. (MHz)                      | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                           | 29.15     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                           | 22.51     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                           | 31.13     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                           | 17.86     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 6.995                           | 18.18     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 16.995                          | 23.35     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 32.424                          | 36.41     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 63.942                          | 31.99     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                         | 40.06     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 230.982                         | 35.38     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                         | 43.97     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                         | 43.75     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 63.942                          | 34.18     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                         | 38.99     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 225.406                         | 38.10     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                         | 43.18     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                         | 39.24     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                         | 39.09     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1188.453                        | 53.11     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1980.755                        | 47.41     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2435.641                        | 105.10    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.057                        | 44.86     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4198.200                        | 46.87     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4873.782                        | 53.79     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1188.453                        | 53.27     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1979.755                        | 48.20     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2438.640                        | 98.61     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2631.592                        | 46.23     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 3533.867                        | 44.30     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4873.782                        | 55.21     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7043.261                        | 48.73     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7675.541                        | 49.10     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 9540.765                        | 48.45     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 10742.097                       | 47.24     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 15294.509                       | 49.41     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 19151.414                       | 49.19     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 6569.052                        | 48.47     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7612.313                        | 49.37     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 8750.416                        | 48.26     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 10615.641                 | 48.43     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|---------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 12702.163                 | 49.25     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 15768.719                 | 49.17     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 802.11B Mode-High Channel |           |           |           |                |                |                |            |         |
| Fre. (MHz)                | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                     | 27.73     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                     | 27.13     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                     | 28.68     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                     | 18.98     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 2.790                     | 14.01     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                    | 24.64     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 63.942                    | 33.94     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                   | 38.52     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 223.952                   | 36.65     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 395.841                   | 42.66     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                   | 38.91     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                   | 39.22     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 32.182                    | 35.33     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 57.396                    | 34.14     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                   | 39.81     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 223.952                   | 35.94     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                   | 43.51     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                   | 43.02     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1188.453                  | 53.40     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1979.755                  | 45.02     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2461.635                  | 105.21    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.057                  | 44.76     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 3878.780                  | 46.43     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4924.019                  | 54.58     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1187.953                  | 49.50     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1638.340                  | 37.50     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1979.755                  | 49.85     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2463.134                  | 98.15     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2772.057                  | 45.20     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4924.019                  | 53.55     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7138.103                  | 49.43     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7833.611                  | 49.08     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 10425.957                 | 47.70     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 13397.671                 | 49.71     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 14440.932                 | 50.65     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 15705.491                 | 49.66     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7106.489                  | 49.50     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7991.681                  | 49.27     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 9224.626                  | 47.94     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

|           |       |    |    |      |    |      |            |      |
|-----------|-------|----|----|------|----|------|------------|------|
| 10552.413 | 48.43 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 14440.932 | 50.25 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 19594.010 | 48.27 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |

| 802.11g Mode-Low Channel |           |           |           |                |                |                |            |         |
|--------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| Fre. (MHz)               | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                    | 28.00     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                    | 23.35     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                    | 30.58     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                    | 18.66     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 3.000                    | 17.15     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                   | 23.81     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 31.940                   | 33.97     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 63.942                   | 33.71     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.703                  | 39.15     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 228.073                  | 35.28     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                  | 43.60     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                  | 41.40     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 63.942                   | 33.23     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                  | 38.84     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 223.952                  | 38.07     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                  | 44.05     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                  | 39.28     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                  | 39.29     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1187.953                 | 55.98     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1980.255                 | 44.19     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2417.146                 | 102.21    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.057                 | 45.61     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 3563.859                 | 45.20     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4815.296                 | 52.41     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1188.953                 | 48.45     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1979.755                 | 46.73     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2406.148                 | 98.43     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2772.557                 | 45.24     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 3222.694                 | 45.01     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4816.046                 | 52.97     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7074.875                 | 48.67     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8276.206                 | 48.41     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 9034.942                 | 48.37     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 10584.027                | 47.14     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 13302.829                | 50.36     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 14567.388                | 50.39     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7485.857                 | 49.36     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 8149.750                 | 49.01     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 10489.185                | 47.49     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|--------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 12986.689                | 48.77     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 15389.351                | 49.60     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 21554.077                | 49.55     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 802.11g Mode-Mid Channel |           |           |           |                |                |                |            |         |
| Fre. (MHz)               | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                    | 29.16     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                    | 24.10     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                    | 30.52     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                    | 16.04     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 6.995                    | 19.01     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 16.995                   | 24.37     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 63.942                   | 33.38     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                  | 39.55     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 222.497                  | 35.80     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 395.841                  | 45.26     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                  | 38.92     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                  | 39.26     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 32.424                   | 34.26     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 57.881                   | 33.59     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.703                  | 40.22     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 223.952                  | 39.27     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                  | 41.55     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                  | 43.47     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1187.953                 | 48.58     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1364.909                 | 46.48     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1979.755                 | 46.47     | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2435.141                 | 97.31     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2772.557                 | 46.03     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4875.281                 | 51.52     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1187.953                 | 48.58     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1364.909                 | 46.48     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1979.755                 | 46.47     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2435.141                 | 97.31     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2772.557                 | 46.03     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4875.281                 | 51.52     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 6221.298                 | 48.78     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7169.717                 | 49.99     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8497.504                 | 48.39     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 10900.166                | 47.44     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 13302.829                | 49.81     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 17918.469                | 48.90     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7138.103                 | 49.37     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 8212.978                 | 49.57     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 9603.993                         | 48.06     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|----------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 11469.218                        | 47.50     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 14788.686                        | 49.62     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 19846.922                        | 49.10     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| <b>802.11g Mode-High Channel</b> |           |           |           |                |                |                |            |         |
| Fre. (MHz)                       | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.024                            | 9.47      | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.069                            | 26.09     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                            | 26.10     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 4.994                            | 17.29     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 18.996                           | 23.47     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                           | 26.04     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 31.940                           | 35.03     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 63.942                           | 33.74     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                          | 38.96     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 223.952                          | 37.97     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 395.841                          | 41.98     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                          | 43.53     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 63.942                           | 33.94     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                          | 38.26     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 223.952                          | 37.61     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                          | 41.43     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                          | 38.78     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                          | 39.78     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1187.953                         | 51.60     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1980.255                         | 42.68     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2456.636                         | 101.19    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.057                         | 47.05     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 3643.339                         | 44.99     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4921.020                         | 49.62     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1188.453                         | 50.67     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1980.255                         | 46.62     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2458.135                         | 95.81     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2772.557                         | 45.24     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 3969.508                         | 46.04     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4923.269                         | 50.94     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7169.717                         | 48.27     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7865.225                         | 48.60     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8876.872                         | 48.76     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 10552.413                        | 48.26     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 13271.215                        | 49.59     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 16622.296                        | 48.42     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7043.261                         | 49.82     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7833.611                         | 49.33     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

|           |       |    |    |      |    |      |            |      |
|-----------|-------|----|----|------|----|------|------------|------|
| 11121.464 | 47.86 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 14851.913 | 50.38 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 17381.032 | 49.51 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 20574.043 | 49.53 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |

| 802.11n-20MHz Mode-Low Channel |           |           |           |                |                |                |            |         |
|--------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| Fre. (MHz)                     | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                          | 30.12     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                          | 26.18     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                          | 26.79     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                          | 17.90     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 3.000                          | 17.35     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                         | 27.23     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 63.942                         | 26.00     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                        | 40.82     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 223.952                        | 36.68     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 395.841                        | 41.46     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                        | 39.40     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                        | 38.95     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 32.424                         | 34.84     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 63.942                         | 29.90     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                        | 36.18     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 223.952                        | 36.32     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                        | 39.91     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                        | 43.44     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1187.953                       | 51.51     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1979.755                       | 46.43     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2416.146                       | 101.54    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.557                       | 45.70     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 3911.022                       | 47.06     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4826.543                       | 58.31     | --        | 42.73     | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1188.453                       | 49.94     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1979.755                       | 46.81     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2408.148                       | 97.33     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2772.557                       | 45.66     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 3611.847                       | 45.75     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4813.797                       | 54.56     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 6758.735                       | 48.84     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7738.769                       | 49.30     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8940.100                       | 47.28     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 11184.692                      | 48.10     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 14346.090                      | 50.22     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 16906.822                      | 48.50     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7074.875                       | 48.36     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 7770.383                              | 48.54     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|---------------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 8845.258                              | 47.94     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 10584.027                             | 47.01     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 12544.093                             | 48.14     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 15073.211                             | 49.86     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| <b>802.11n-20MHz Mode-Mid Channel</b> |           |           |           |                |                |                |            |         |
| Fre. (MHz)                            | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                                 | 27.46     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                                 | 25.15     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                                 | 26.58     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                                 | 18.51     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 2.438                                 | 15.98     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 18.996                                | 25.06     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 32.182                                | 34.05     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 63.942                                | 33.60     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                               | 40.27     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 223.952                               | 36.48     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                               | 43.58     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                               | 41.10     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 63.942                                | 26.08     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                               | 39.68     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 231.467                               | 38.03     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                               | 42.14     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                               | 39.73     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                               | 39.31     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1187.453                              | 48.70     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1981.255                              | 44.37     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2432.642                              | 101.62    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.557                              | 45.44     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4356.411                              | 48.33     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4877.531                              | 58.31     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1187.953                              | 50.76     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1980.255                              | 46.48     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2434.141                              | 96.71     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2772.057                              | 48.51     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 3620.845                              | 44.06     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4874.531                              | 53.23     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 6474.210                              | 48.63     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8560.732                              | 48.27     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 10425.957                             | 47.60     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 13176.373                             | 48.73     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 16211.314                             | 50.36     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 21522.463                             | 48.70     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7074.875                              | 48.90     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 8371.048                               | 48.53     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|----------------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 9951.747                               | 47.90     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 11690.516                              | 48.55     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 12354.409                              | 48.34     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 15863.561                              | 49.42     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| <b>802.11n-20MHz Mode-High Channel</b> |           |           |           |                |                |                |            |         |
| Fre. (MHz)                             | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                                  | 26.25     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                                  | 26.52     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                                  | 27.43     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                                  | 17.12     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 4.994                                  | 17.48     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 16.995                                 | 23.74     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 63.942                                 | 25.93     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.703                                | 40.49     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 228.073                                | 36.29     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 395.841                                | 40.95     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                                | 40.05     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                                | 39.13     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 32.424                                 | 34.53     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 63.942                                 | 34.69     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.703                                | 40.05     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 228.073                                | 35.66     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                                | 43.63     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                                | 41.43     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1188.453                               | 50.09     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1728.318                               | 37.90     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1979.755                               | 43.37     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2465.634                               | 101.16    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.057                               | 45.23     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4924.019                               | 50.35     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1187.953                               | 46.53     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1979.755                               | 46.53     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2455.636                               | 95.64     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2772.057                               | 45.37     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 3896.776                               | 46.60     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4924.769                               | 51.06     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 6126.456                               | 49.13     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7770.383                               | 48.94     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8718.802                               | 49.05     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 9667.221                               | 49.16     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 14440.932                              | 50.22     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 19404.326                              | 48.52     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 6505.824                               | 49.03     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 7138.103                              | 49.43     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|---------------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 8371.048                              | 48.48     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 10489.185                             | 47.26     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 13207.987                             | 49.48     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 17412.646                             | 48.32     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| <b>802.11n-40MHz Mode-Low Channel</b> |           |           |           |                |                |                |            |         |
| Fre. (MHz)                            | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                                 | 28.96     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                                 | 26.79     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                                 | 28.26     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                                 | 20.37     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 8.997                                 | 17.69     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                                | 22.36     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 32.424                                | 35.30     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 63.942                                | 34.10     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                               | 40.04     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 395.841                               | 38.66     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                               | 43.36     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                               | 41.49     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 63.942                                | 25.71     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                               | 40.73     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 223.952                               | 42.37     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                               | 40.29     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                               | 39.64     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                               | 43.48     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1187.953                              | 49.29     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1979.255                              | 44.49     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2433.142                              | 94.93     | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.057                              | 43.72     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4224.444                              | 46.89     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 5758.560                              | 50.56     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1187.953                              | 51.34     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1727.818                              | 38.60     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1979.755                              | 44.13     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2417.146                              | 99.66     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2771.557                              | 45.60     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4840.040                              | 50.46     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7232.945                              | 48.46     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8371.048                              | 49.22     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 9129.784                              | 47.59     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 10963.394                             | 46.99     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 13777.038                             | 49.92     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 16337.770                             | 49.39     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7043.261                              | 49.36     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

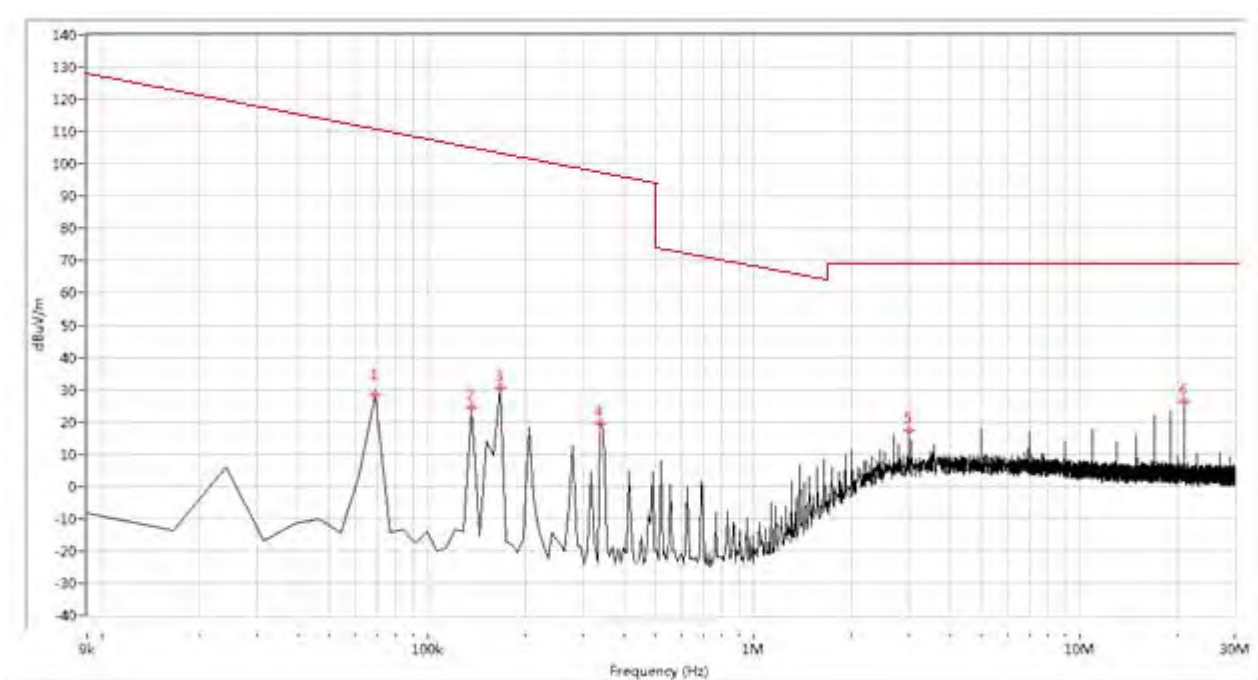
| 7833.611                              | 48.32     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|---------------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 9414.309                              | 48.95     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 11374.376                             | 48.56     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 14599.002                             | 49.43     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 19435.940                             | 48.08     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| <b>802.11n-40MHz Mode-Mid Channel</b> |           |           |           |                |                |                |            |         |
| Fre. (MHz)                            | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                                 | 26.34     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                                 | 24.39     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                                 | 26.49     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                                 | 20.60     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 18.996                                | 22.91     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                                | 25.88     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 31.940                                | 34.25     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 63.942                                | 34.09     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                               | 39.84     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 395.841                               | 39.61     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                               | 43.40     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                               | 41.48     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 63.942                                | 25.34     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                               | 40.29     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 223.952                               | 37.67     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 395.841                               | 39.71     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                               | 39.69     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                               | 42.82     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1188.453                              | 48.54     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1980.755                              | 45.18     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2443.139                              | 100.29    | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 2772.057                              | 45.69     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 3563.859                              | 45.48     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 4888.778                              | 49.20     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1188.453                              | 50.12     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1980.255                              | 46.31     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2429.643                              | 92.68     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 2772.557                              | 44.32     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 3880.280                              | 46.46     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4804.799                              | 48.46     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7264.559                              | 49.23     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7960.067                              | 48.48     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 9224.626                              | 47.81     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 11627.288                             | 48.68     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 14377.704                             | 49.66     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 16369.384                             | 50.02     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7485.857                              | 48.37     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

| 8560.732                               | 48.48     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
|----------------------------------------|-----------|-----------|-----------|----------------|----------------|----------------|------------|---------|
| 9983.361                               | 46.90     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 11658.902                              | 47.86     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 13966.722                              | 50.24     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 18139.767                              | 48.89     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| <b>802.11n-40MHz Mode-High Channel</b> |           |           |           |                |                |                |            |         |
| Fre. (MHz)                             | Pk (dBuV) | QP (dBuV) | AV (dBuV) | Limit-PK(dBuV) | Limit-QP(dBuV) | Limit-AV(dBuV) | Antenna    | Verdict |
| 0.069                                  | 30.45     | --        | --        | --             | 110.8          | --             | --         | PASS    |
| 0.136                                  | 24.72     | --        | --        | --             | 104.9          | --             | --         | PASS    |
| 0.166                                  | 30.69     | --        | --        | --             | 103.2          | --             | --         | PASS    |
| 0.339                                  | 20.73     | --        | --        | --             | 97.0           | --             | --         | PASS    |
| 16.995                                 | 24.74     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 20.997                                 | 24.88     | --        | --        | --             | 69.5           | --             | --         | PASS    |
| 63.942                                 | 25.14     | --        | --        | --             | 40.0           | --             | Vertical   | PASS    |
| 127.946                                | 40.88     | --        | --        | --             | 43.5           | --             | Vertical   | PASS    |
| 223.952                                | 37.81     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 395.841                                | 42.41     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 575.974                                | 39.75     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 703.982                                | 43.22     | --        | --        | --             | 46.0           | --             | Vertical   | PASS    |
| 31.940                                 | 35.13     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 63.942                                 | 34.73     | --        | --        | --             | 40.0           | --             | Horizontal | PASS    |
| 127.946                                | 39.74     | --        | --        | --             | 43.5           | --             | Horizontal | PASS    |
| 395.841                                | 41.20     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 575.974                                | 43.87     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 703.982                                | 41.86     | --        | --        | --             | 46.0           | --             | Horizontal | PASS    |
| 1188.453                               | 50.02     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1980.755                               | 45.10     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2445.139                               | 99.35     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 2772.057                               | 45.57     | --        | --        | 74.0           | --             | 54.0           | Vertical   | N/A     |
| 4077.481                               | 46.81     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 5706.073                               | 50.54     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 1187.453                               | 48.38     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 1980.255                               | 47.79     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2458.135                               | 93.26     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 2772.057                               | 44.86     | --        | --        | 74.0           | --             | 54.0           | Horizontal | N/A     |
| 3888.528                               | 46.18     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 4913.522                               | 50.06     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |
| 7043.261                               | 49.34     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 8655.574                               | 47.57     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 11026.622                              | 48.13     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 12702.163                              | 48.04     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 15136.439                              | 49.08     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 19783.694                              | 48.23     | --        | --        | 74.0           | --             | 54.0           | Vertical   | PASS    |
| 7043.261                               | 49.22     | --        | --        | 74.0           | --             | 54.0           | Horizontal | PASS    |

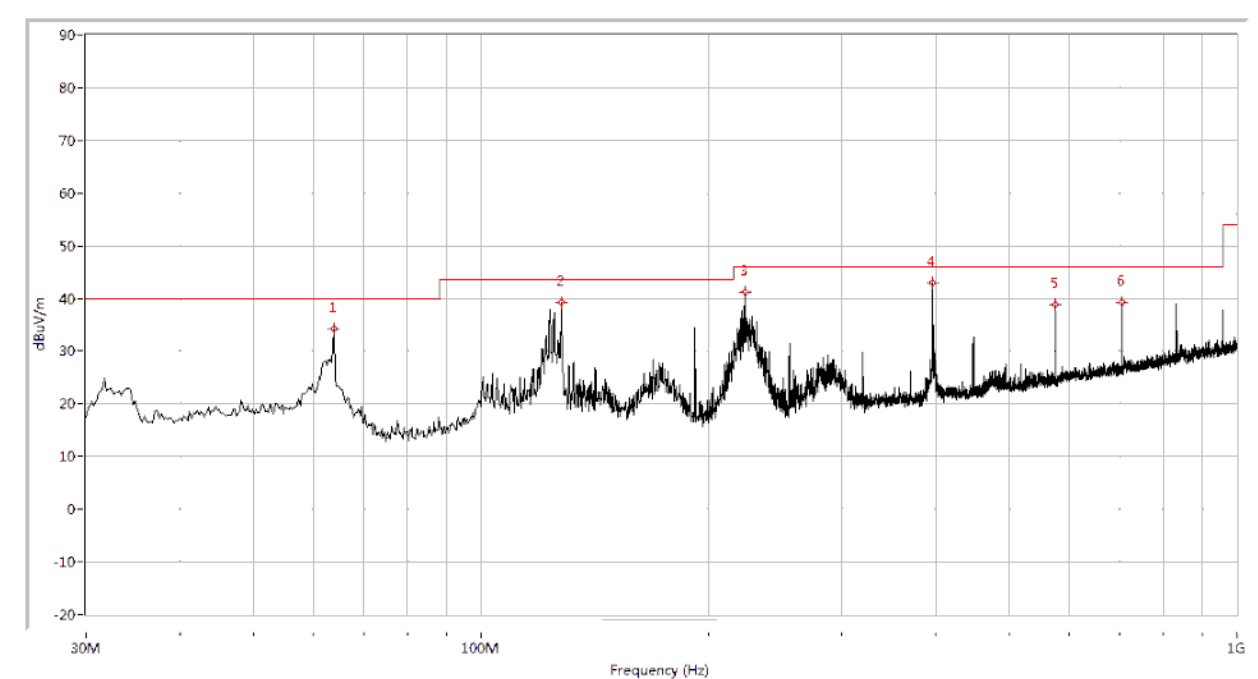
|           |       |    |    |      |    |      |            |      |
|-----------|-------|----|----|------|----|------|------------|------|
| 7991.681  | 48.78 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 10489.185 | 48.70 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 13555.740 | 50.53 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 16116.473 | 49.05 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |
| 19404.326 | 49.06 | -- | -- | 74.0 | -- | 54.0 | Horizontal | PASS |

## Test Plots

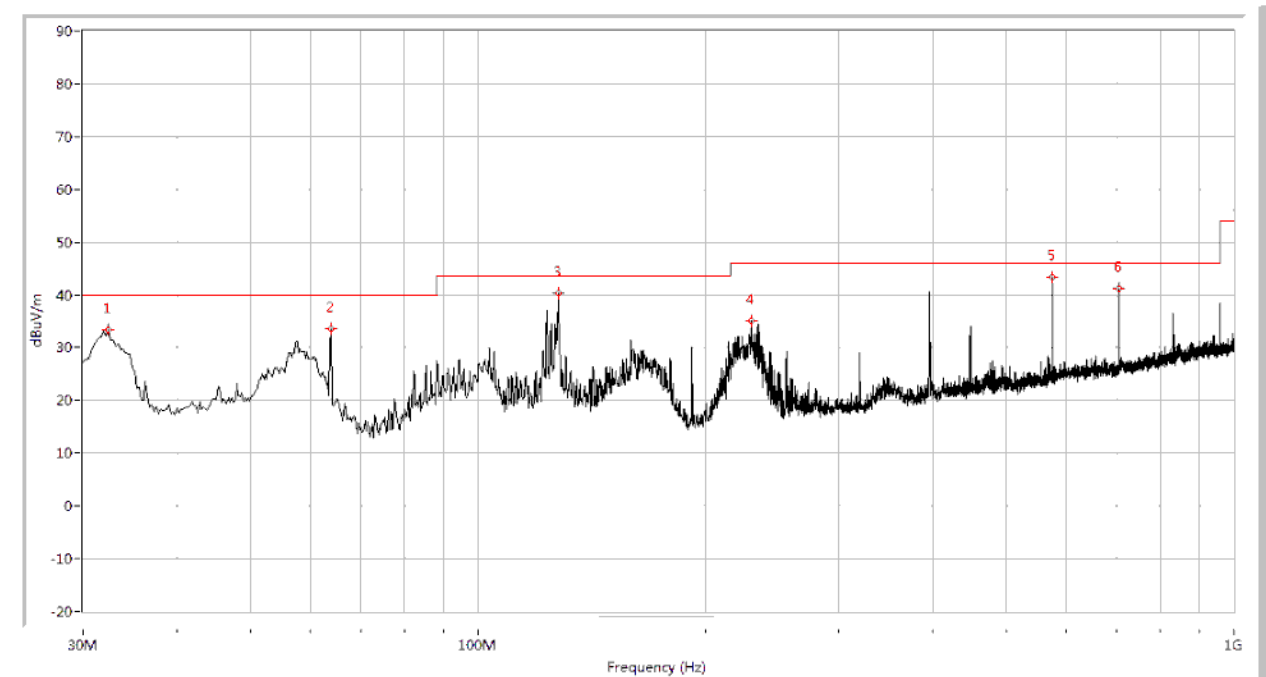
### A.8.1, 802.11B LOW CHANNEL Below 30MHz



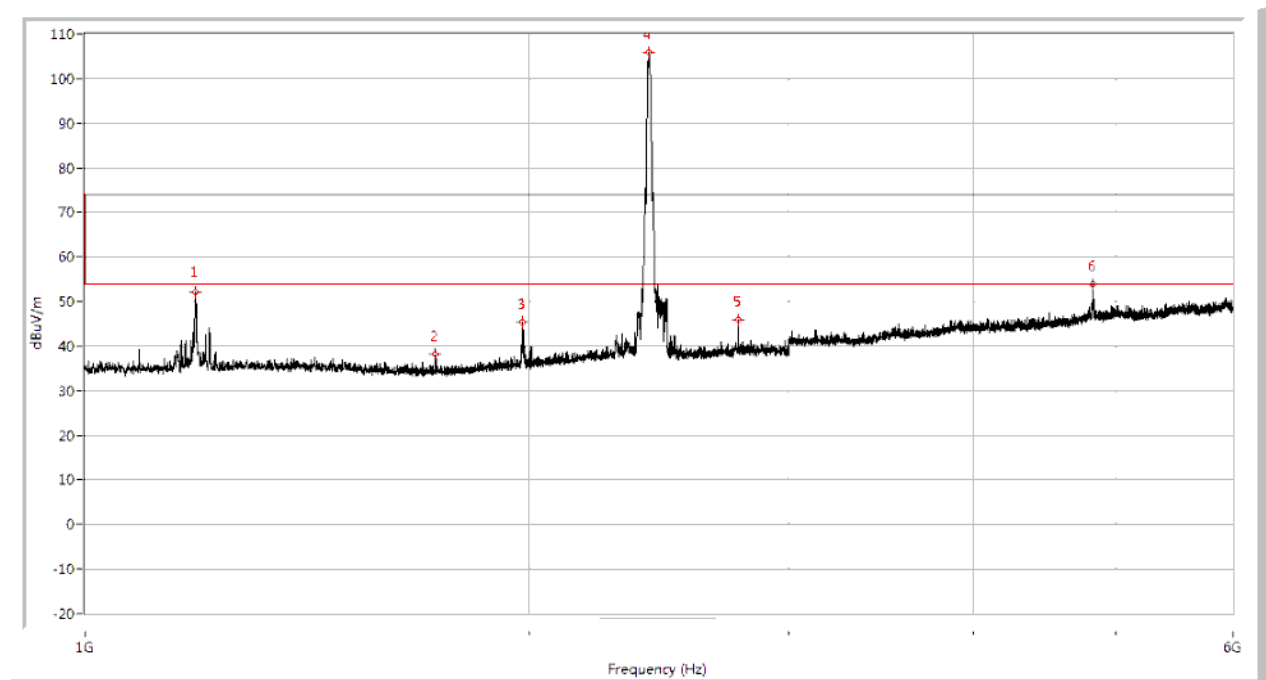
### A.8.2, 802.11B LOW CHANNEL 30MHz to 1GHz, ANT V



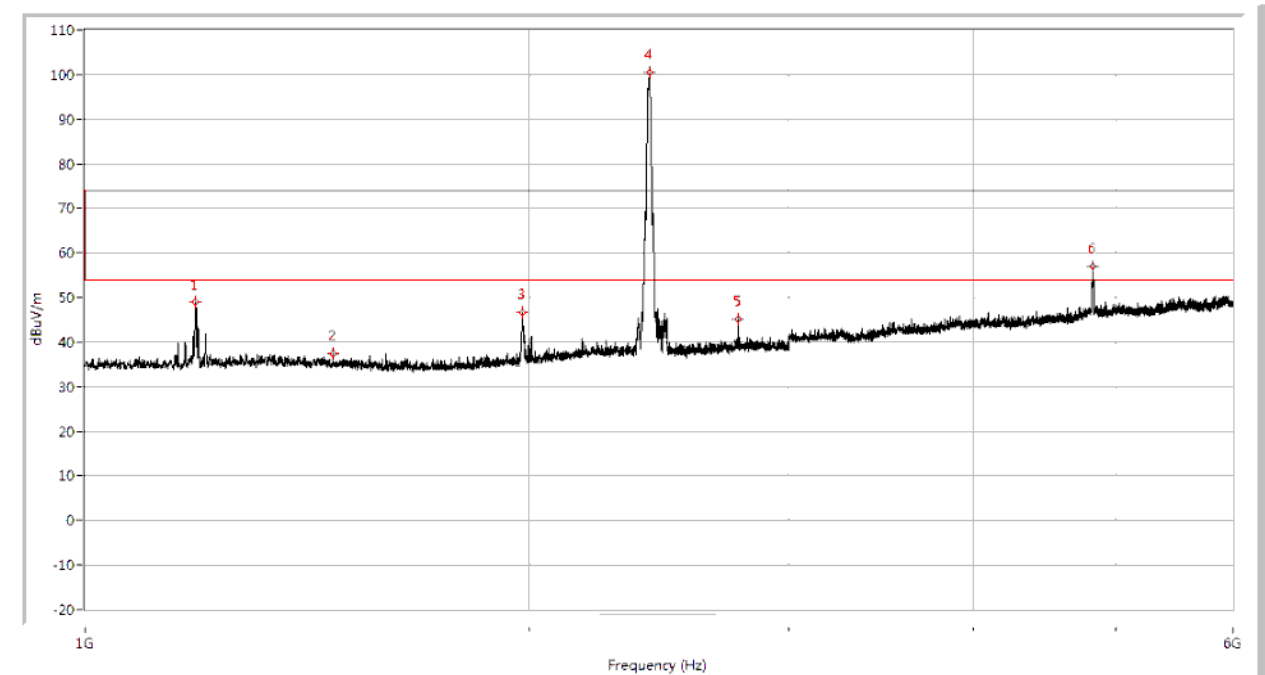
### A.8.3, 802.11B LOW CHANNEL 30MHz to 1GHz, ANT H



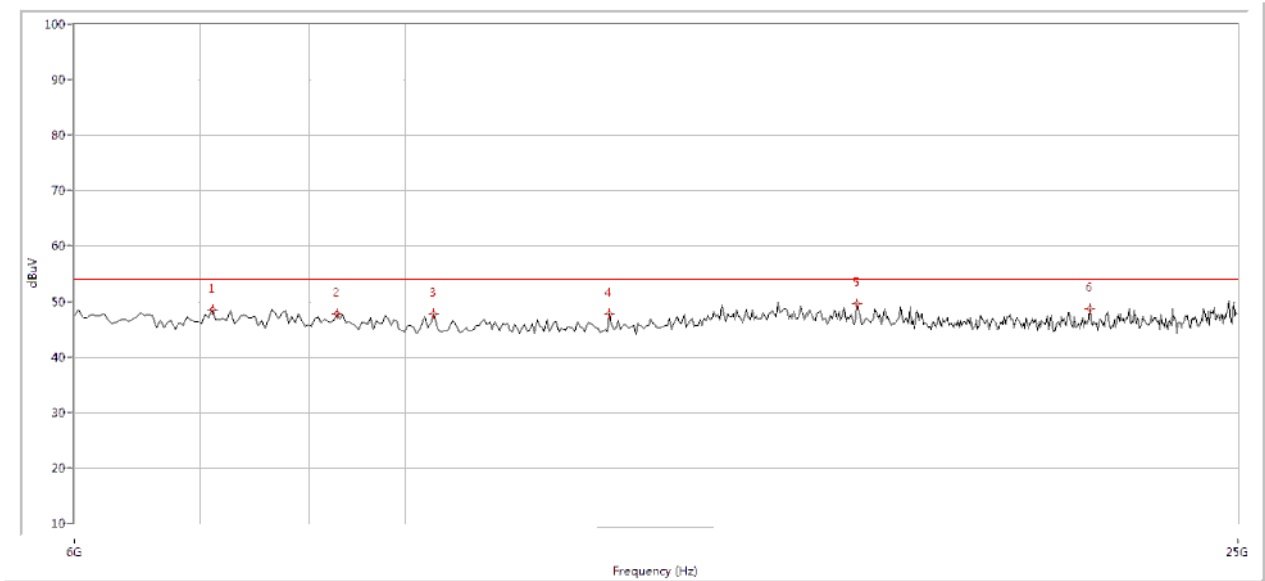
### A.8.4, 802.11B LOW CHANNEL 1GHz to 6GHz, ANT V



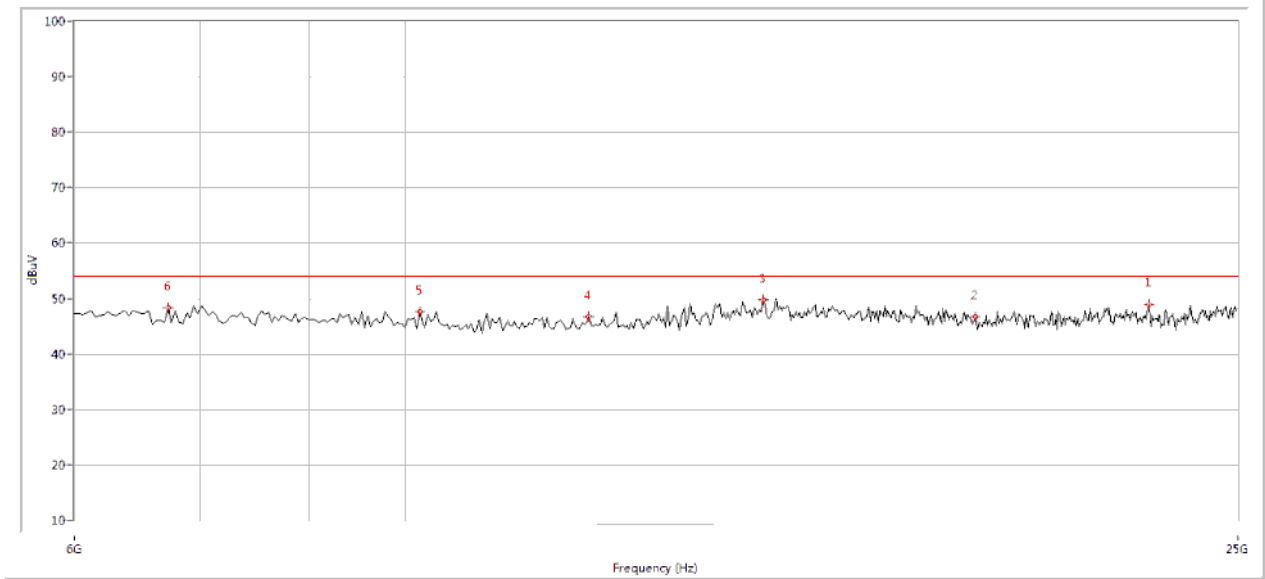
### A.8.5, 802.11B LOW CHANNEL 1GHz to 6GHz, ANT H



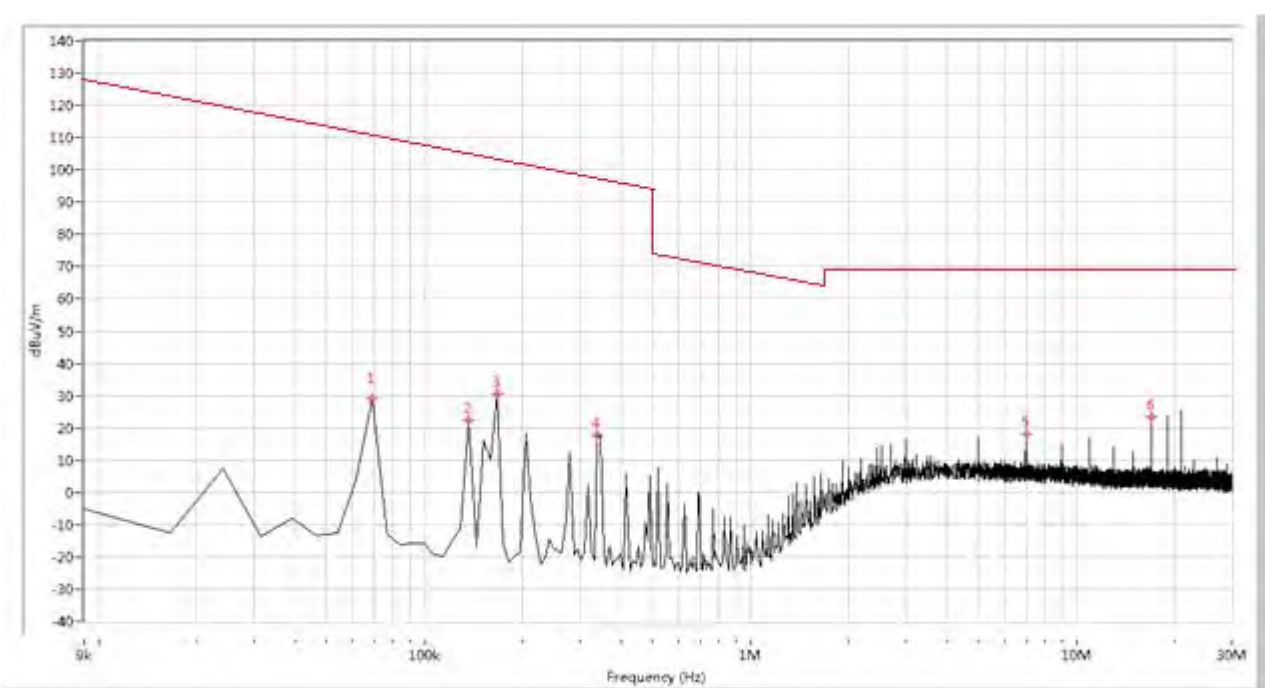
### A.8.6, 802.11B LOW CHANNEL 6GHz to 25GHz, ANT V



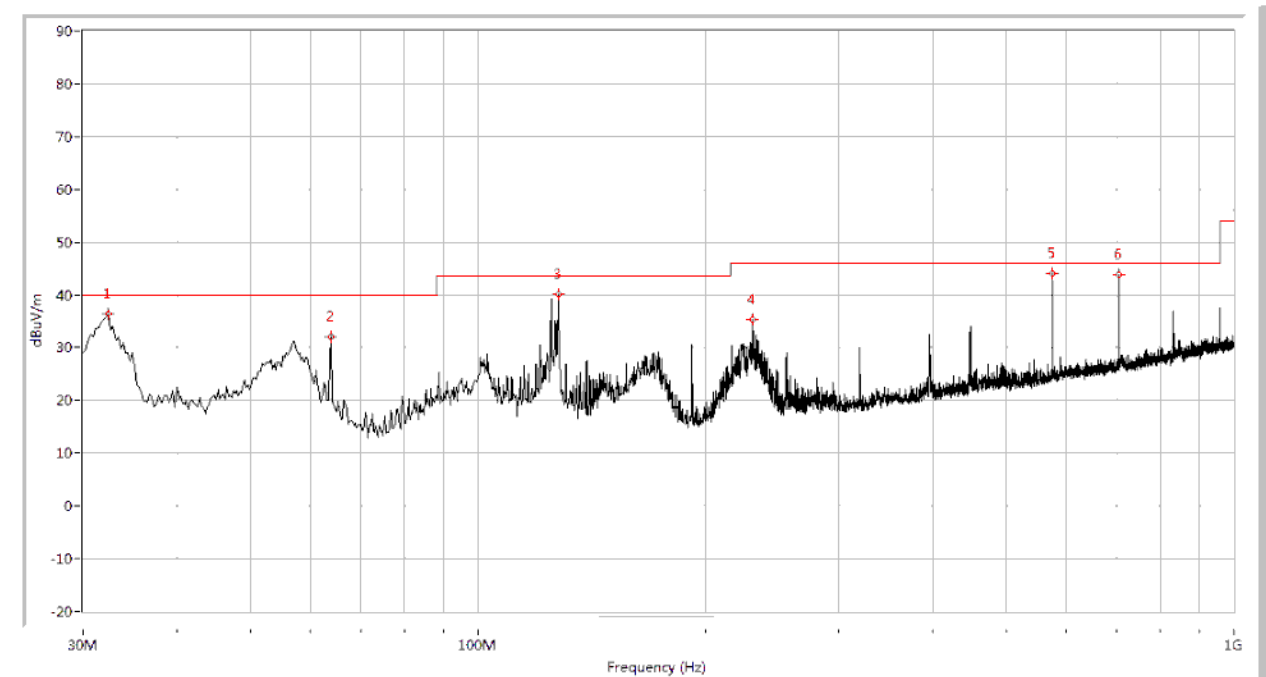
### A.8.7, 802.11B LOW CHANNEL 6GHz to 25GHz, ANT H



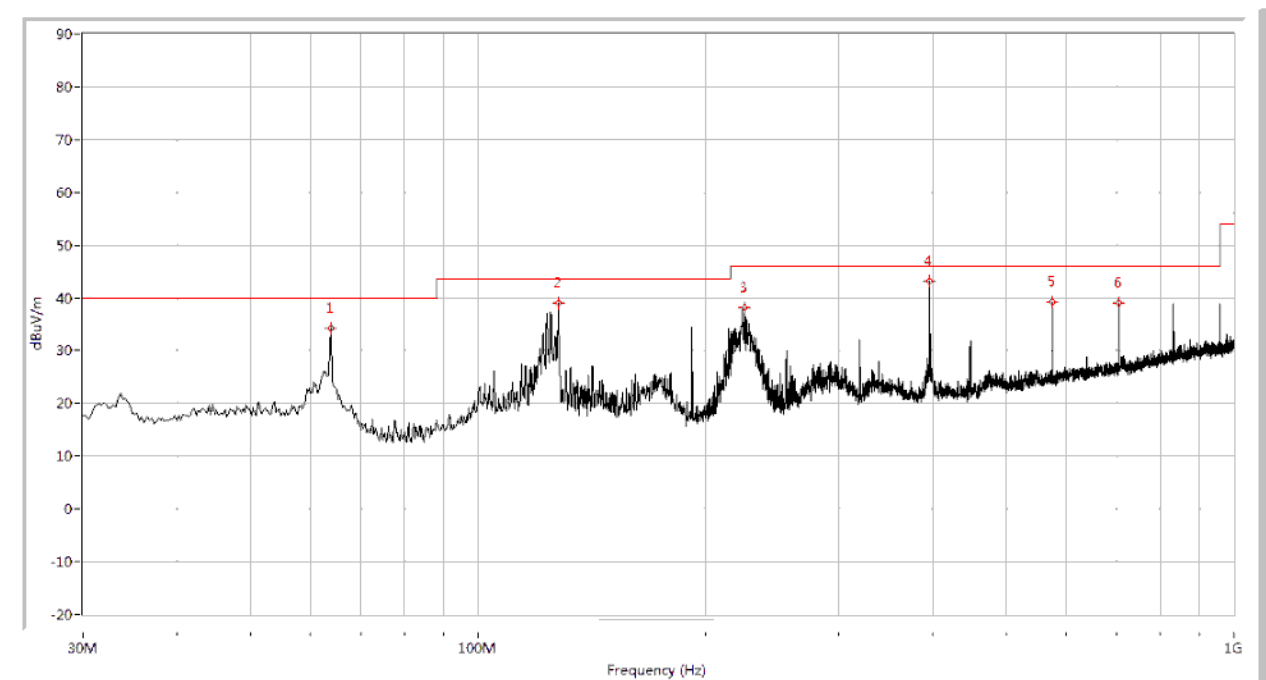
### A.8.8, 802.11B MID CHANNEL Below 30MHz



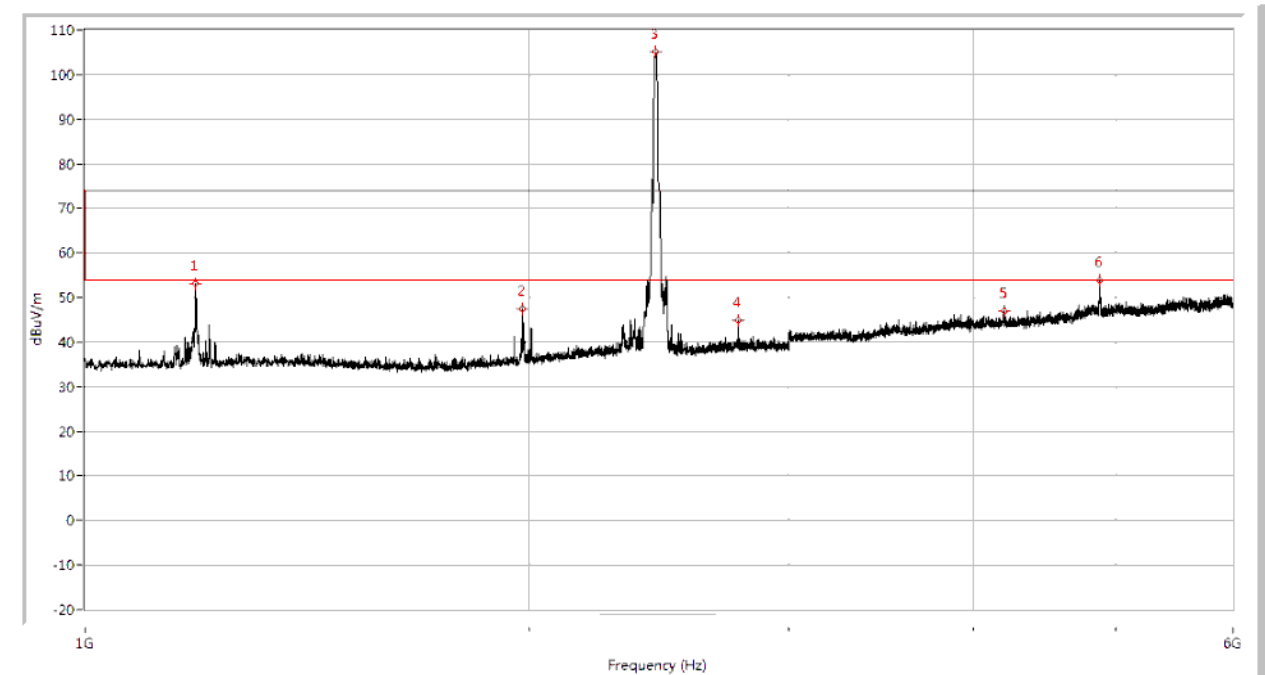
### A.8.9, 802.11B MID CHANNEL 30MHz to 1GHz, ANT V



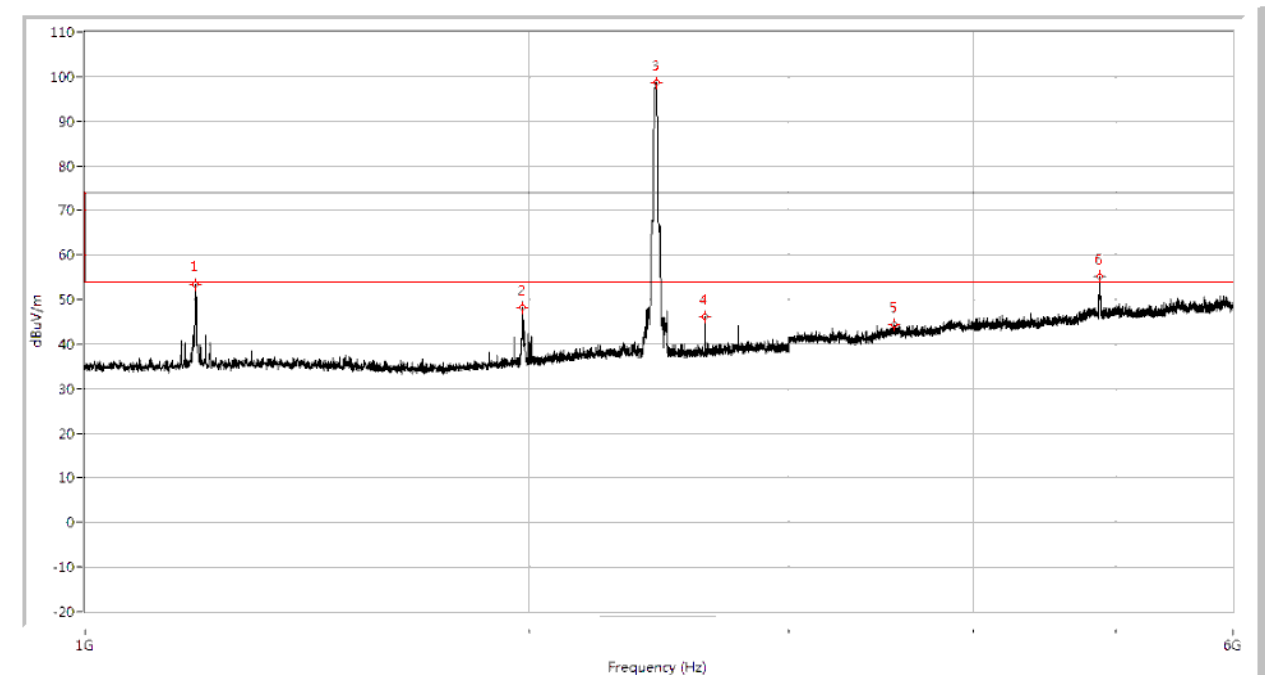
### A.8.10, 802.11B MID CHANNEL 30MHz to 1GHz, ANT H



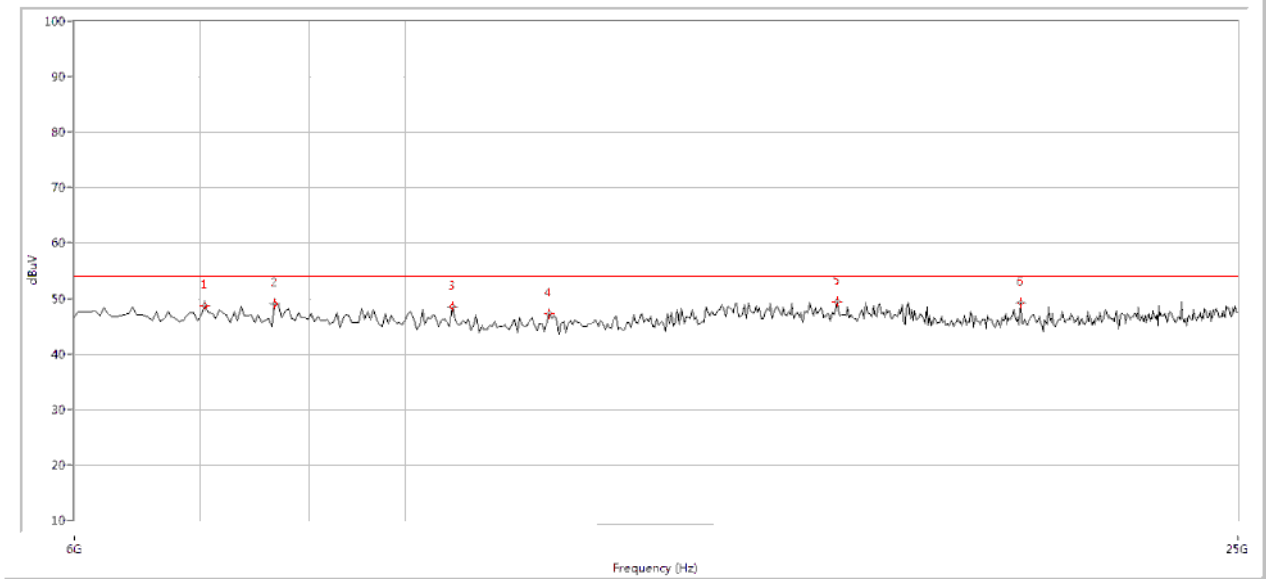
### A.8.11, 802.11B MID CHANNEL 1GHz to 6GHz, ANT V



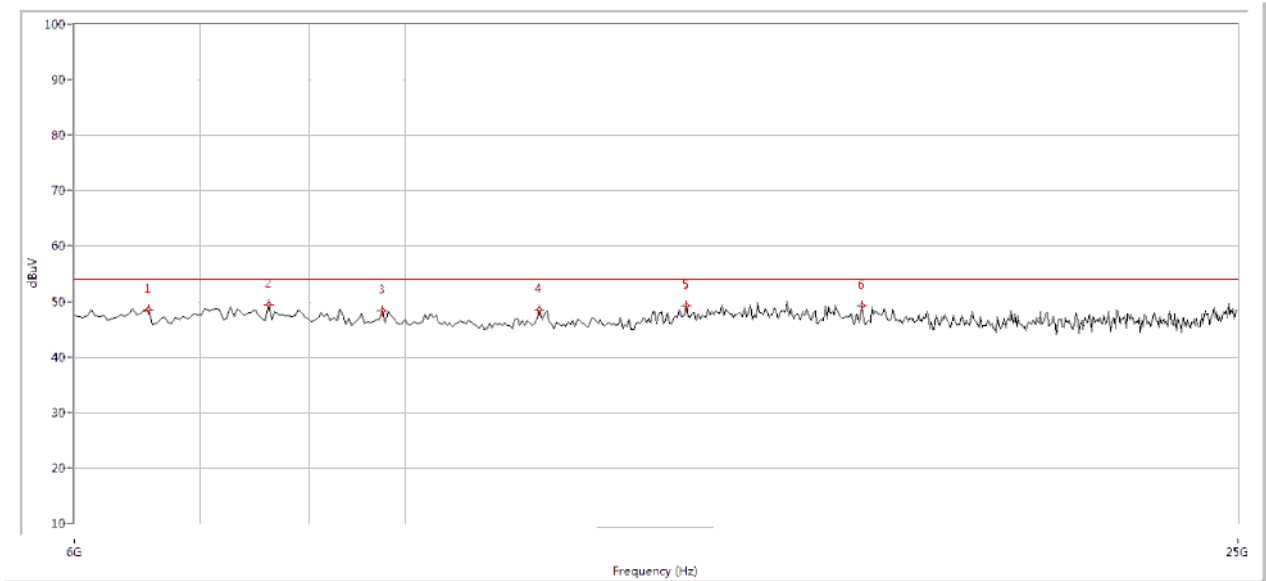
### A.8.12, 802.11B MID CHANNEL 1GHz to 6GHz, ANT H



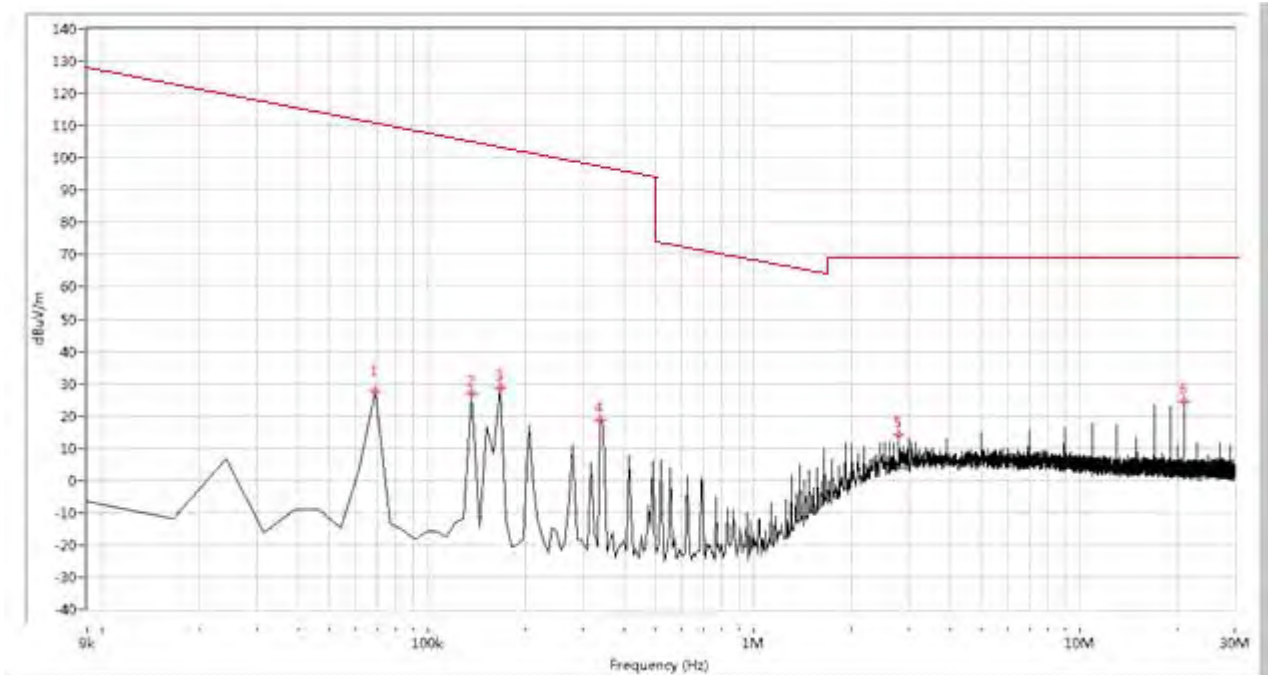
### A.8.13, 802.11B MID CHANNEL 6GHz to 25GHz, ANT V



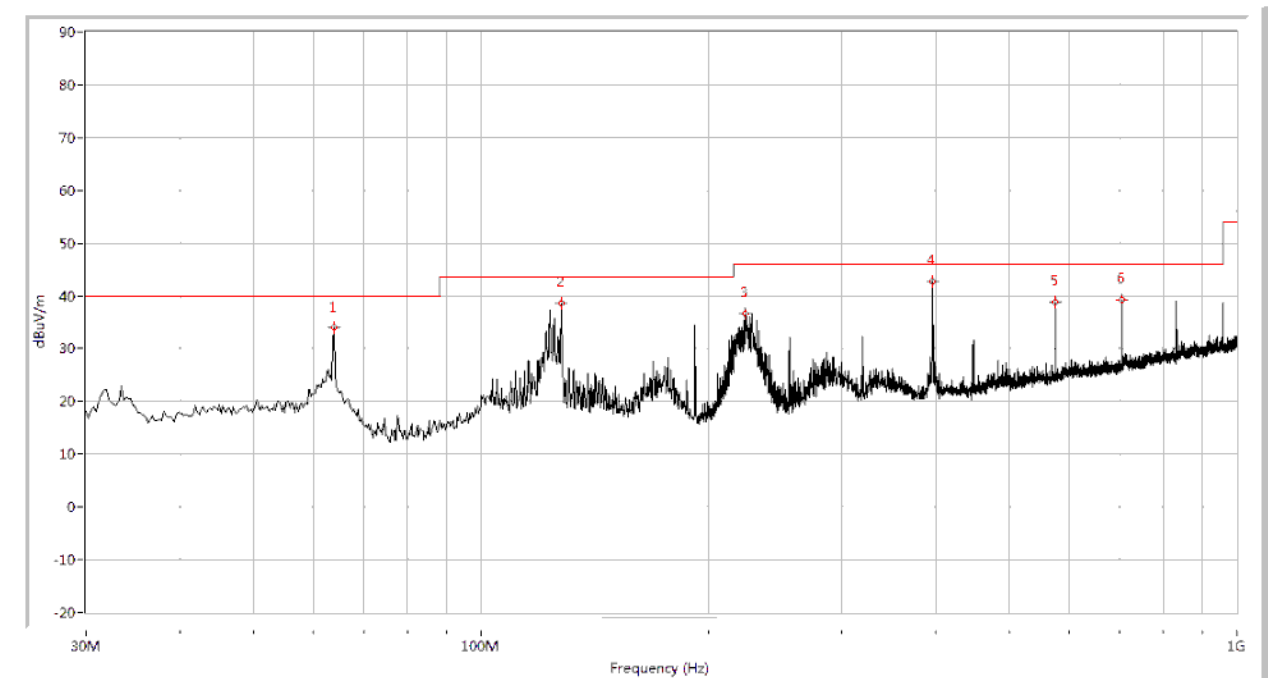
### A.8.14, 802.11B MID CHANNEL 6GHz to 25GHz, ANT H



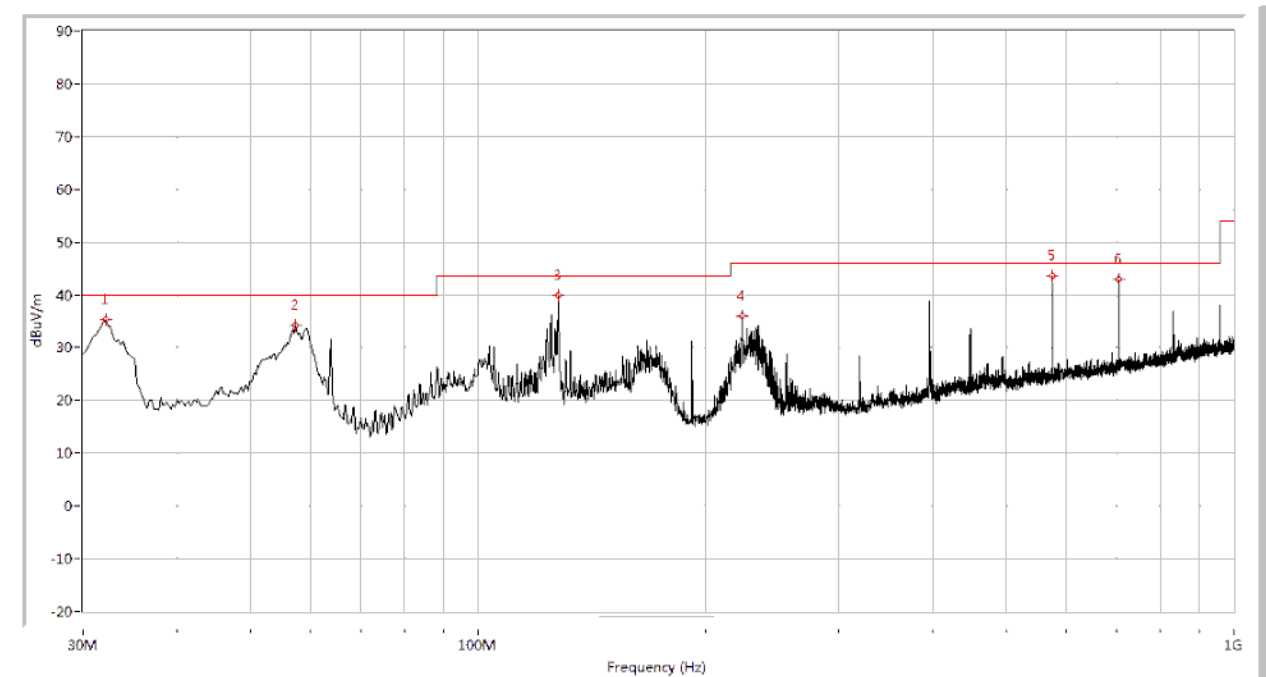
### A.8.15, 802.11B HIGH CHANNEL Below 30MHz



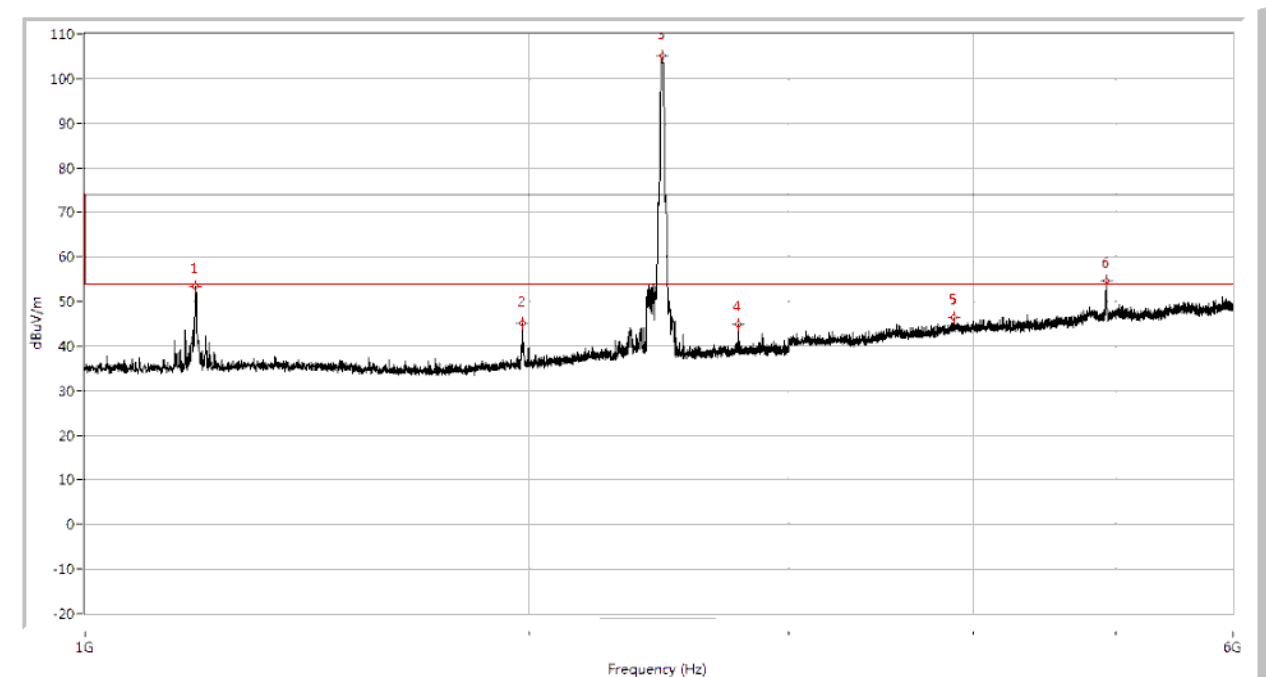
### A.8.16, 802.11B HIGH CHANNEL 30MHz to 1GHz, ANT V



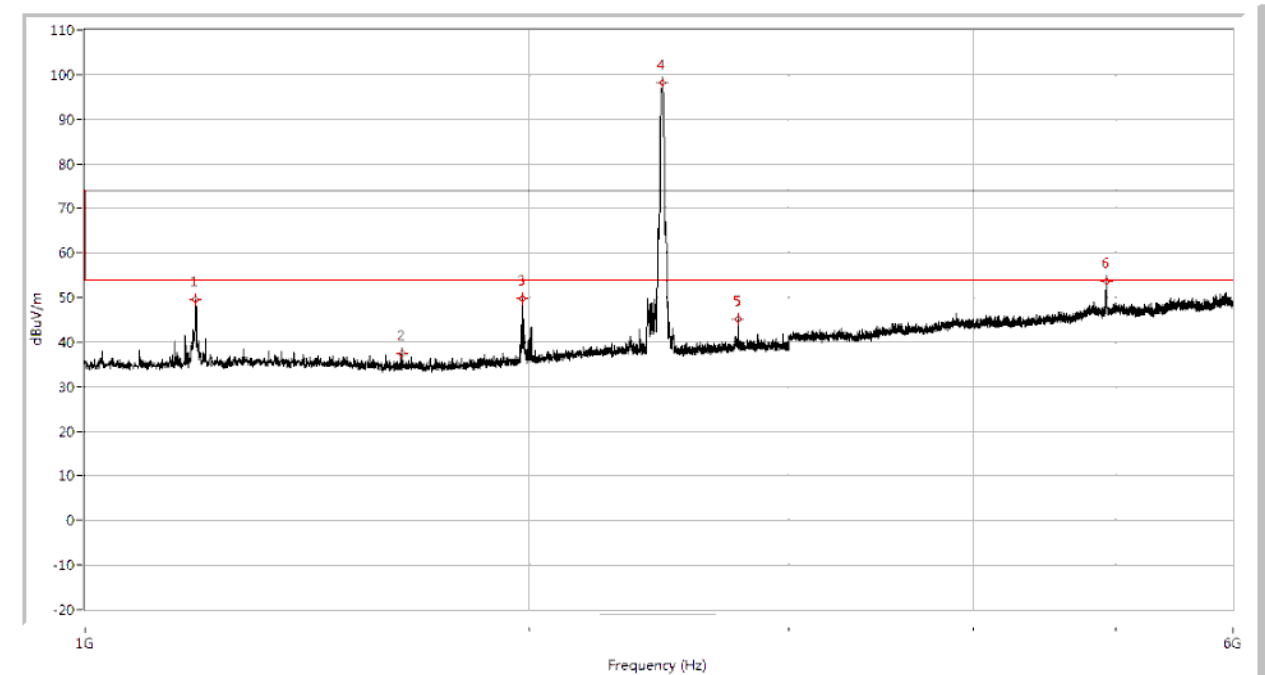
### A.8.17, 802.11B HIGH CHANNEL 30MHz to 1GHz, ANT H



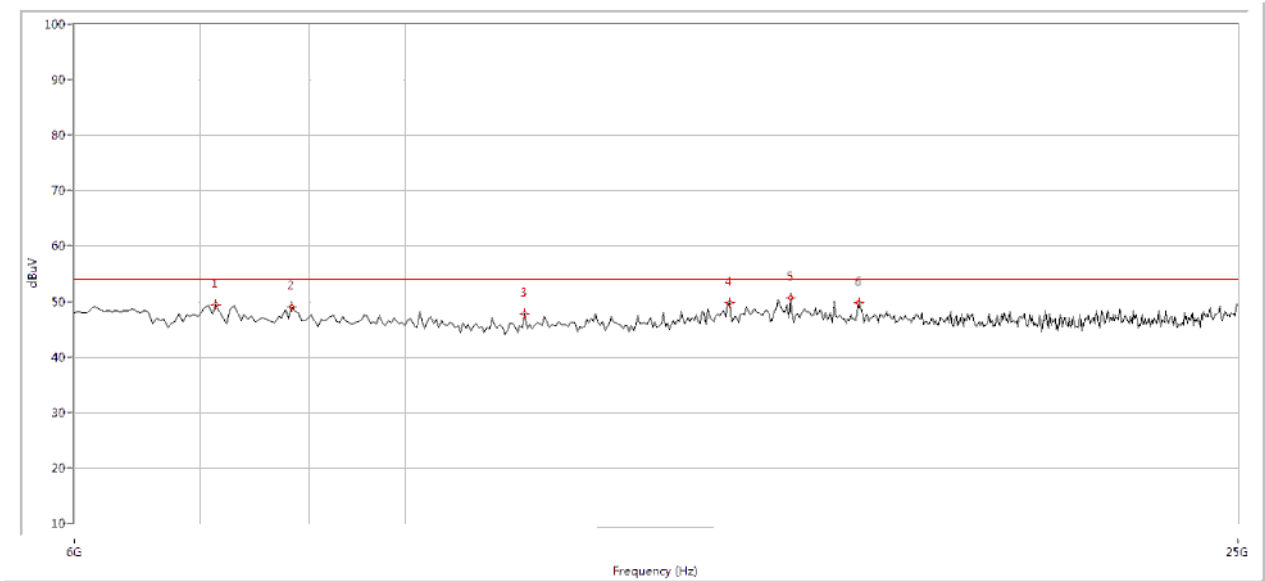
### A.8.18, 802.11B HIGH CHANNEL 1GHz to 6GHz, ANT V



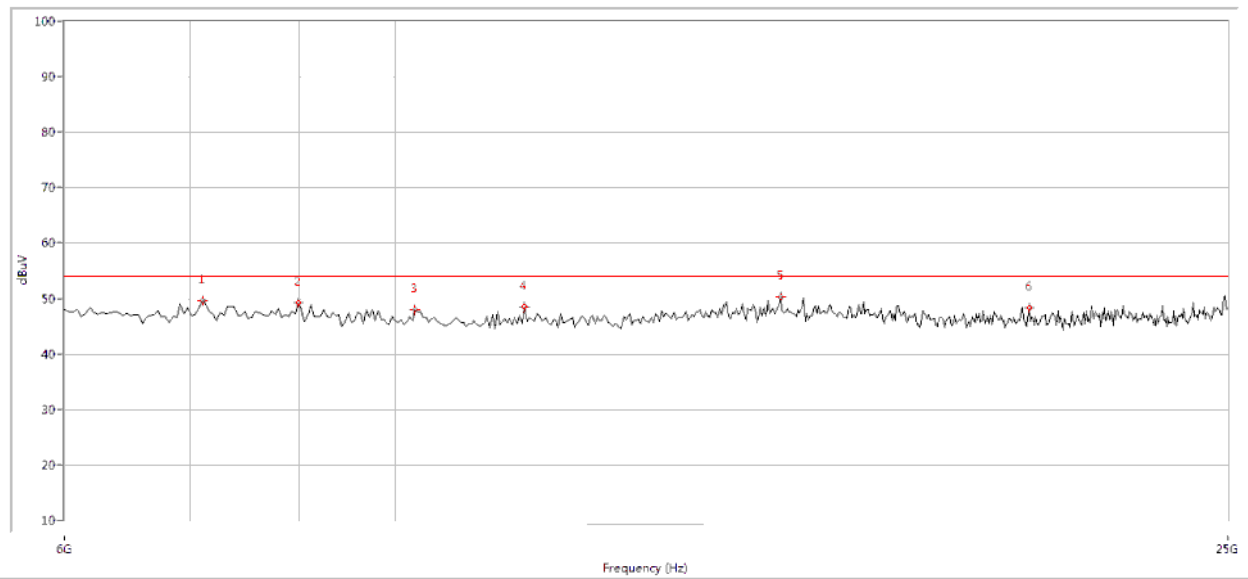
### A.8.19, 802.11B HIGH CHANNEL 1GHz to 6GHz, ANT H



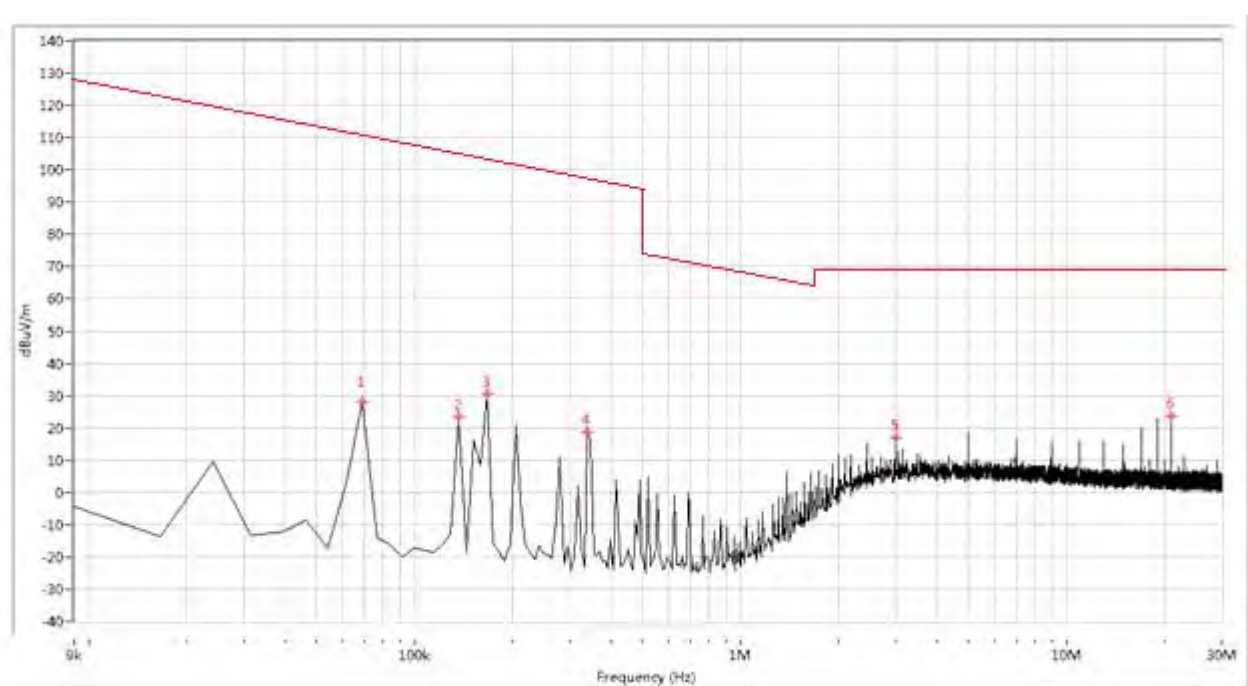
### A.8.20, 802.11B HIGH CHANNEL 6GHz to 25GHz, ANT V



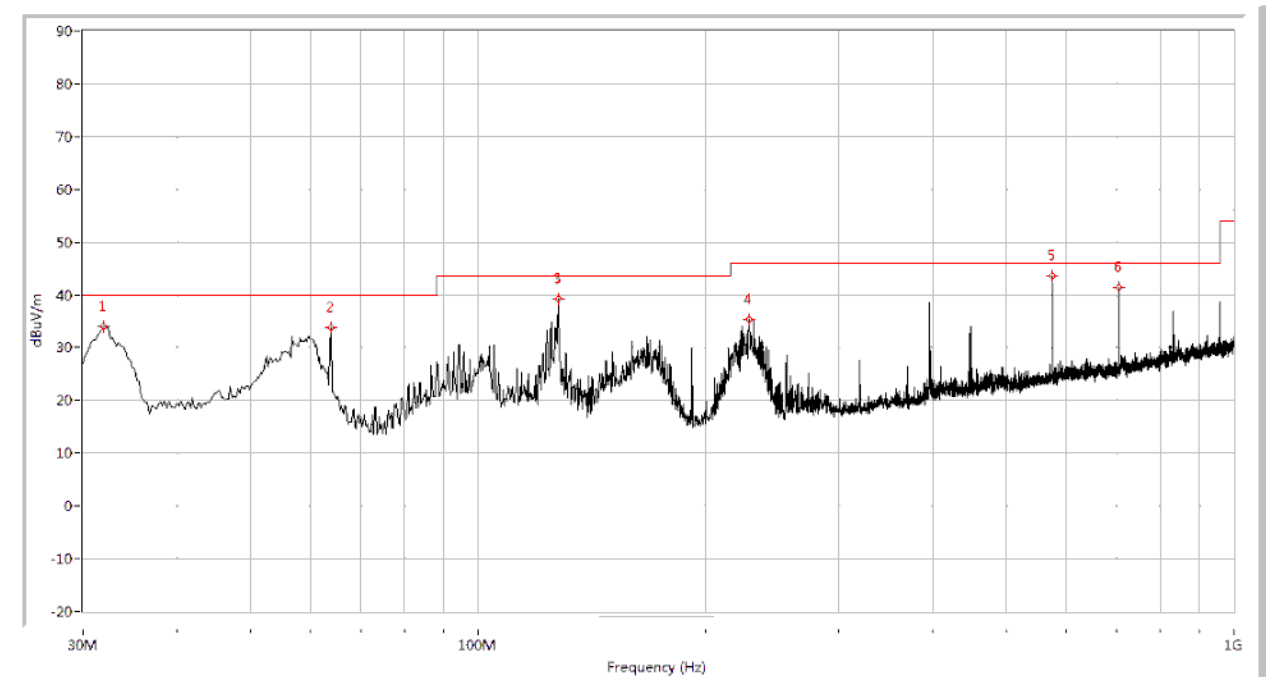
### A.8.21, 802.11B HIGH CHANNEL 6GHz to 25GHz, ANT H



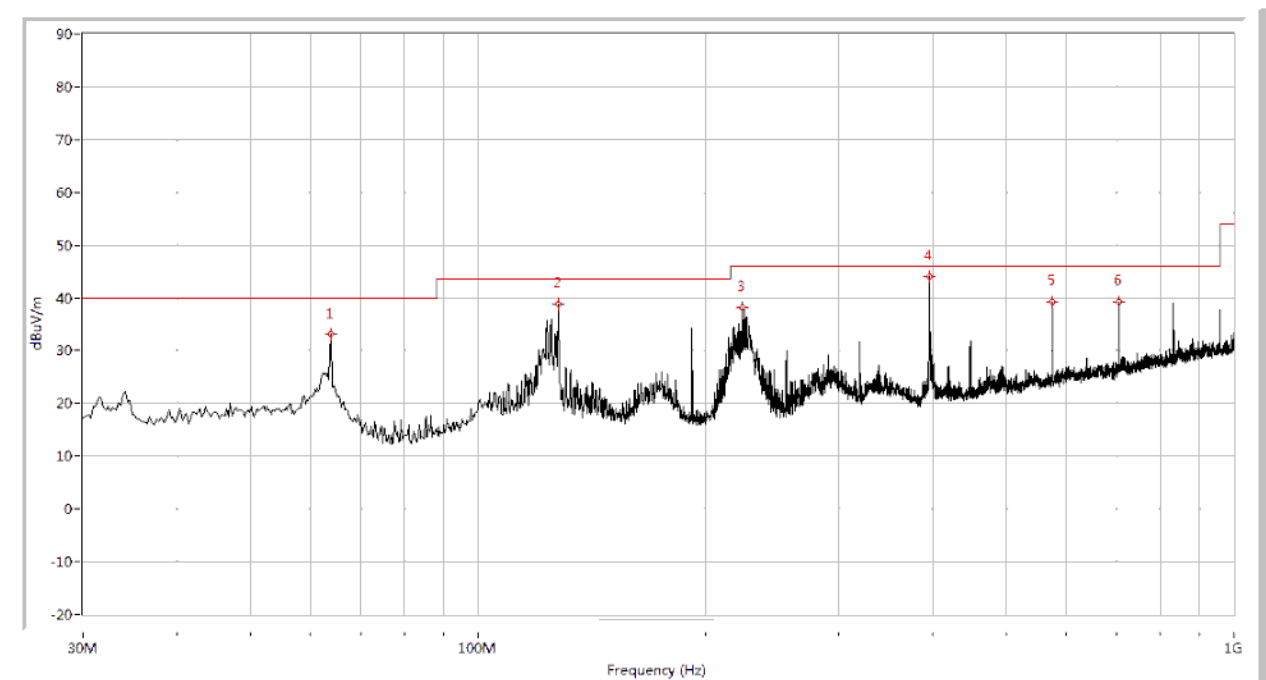
### A.8.22, 802.11g LOW CHANNEL Below 30MHz



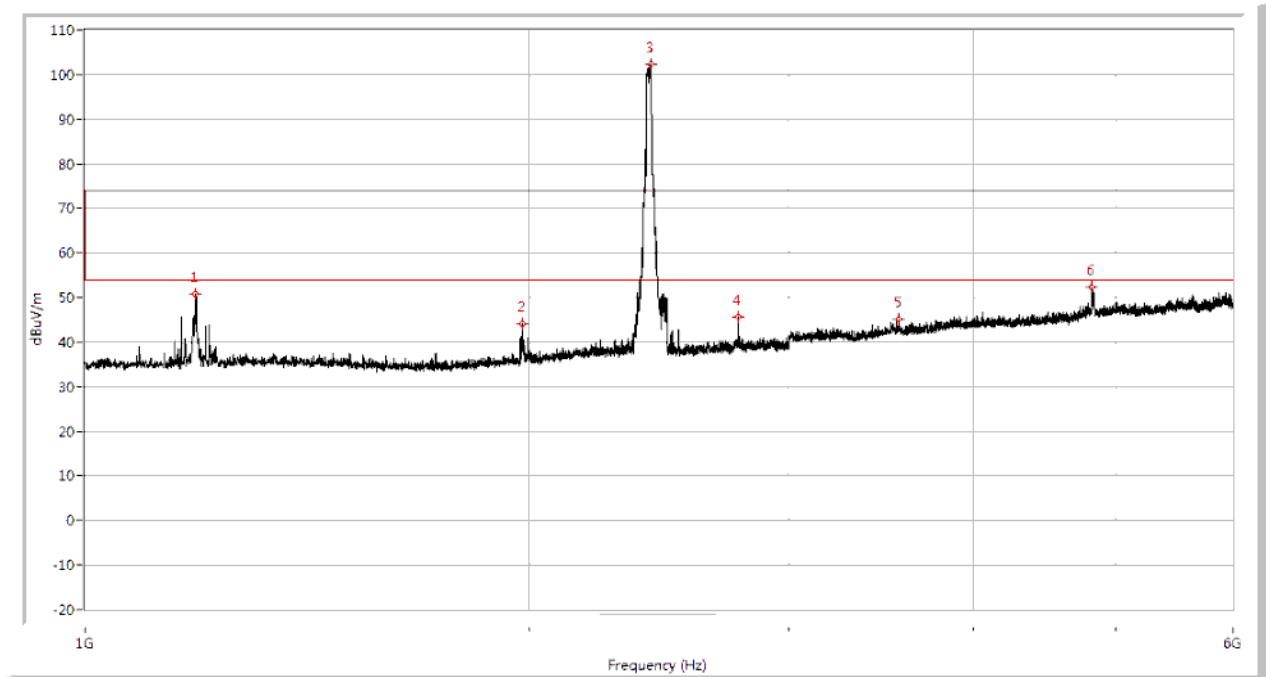
### A.8.23, 802.11g LOW CHANNEL 30MHz to 1GHz, ANT V



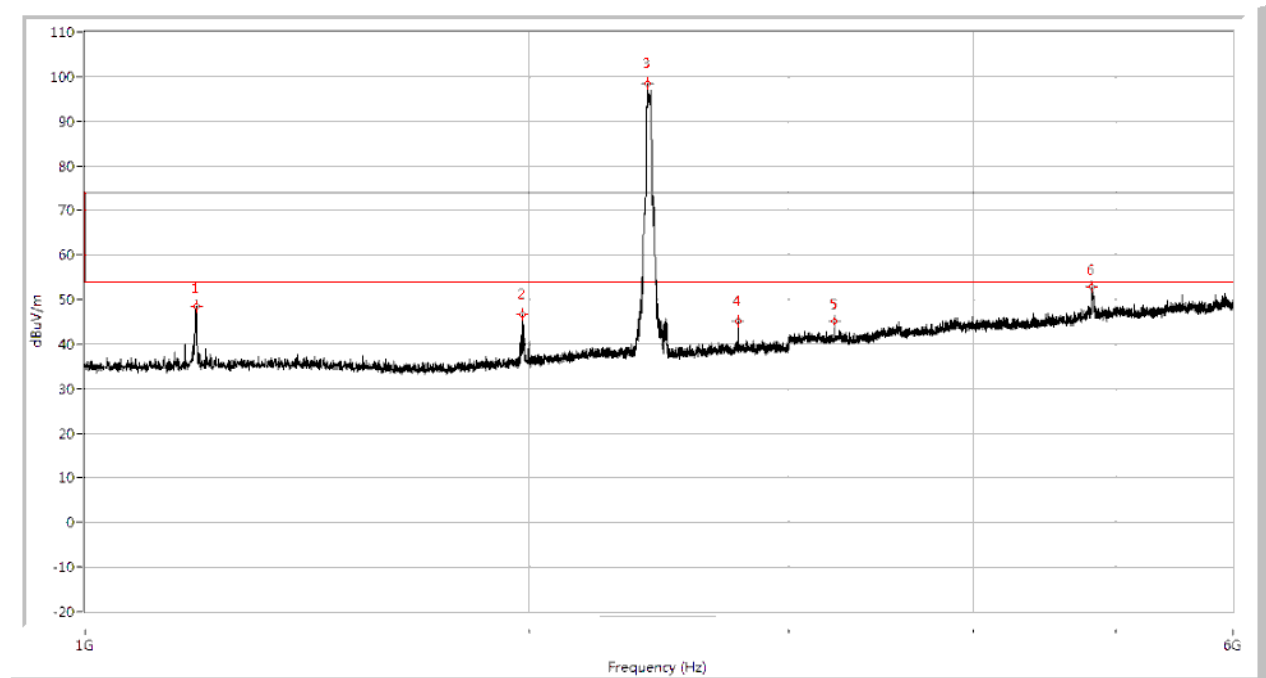
### A.8.24, 802.11g LOW CHANNEL 30MHz to 1GHz, ANT H



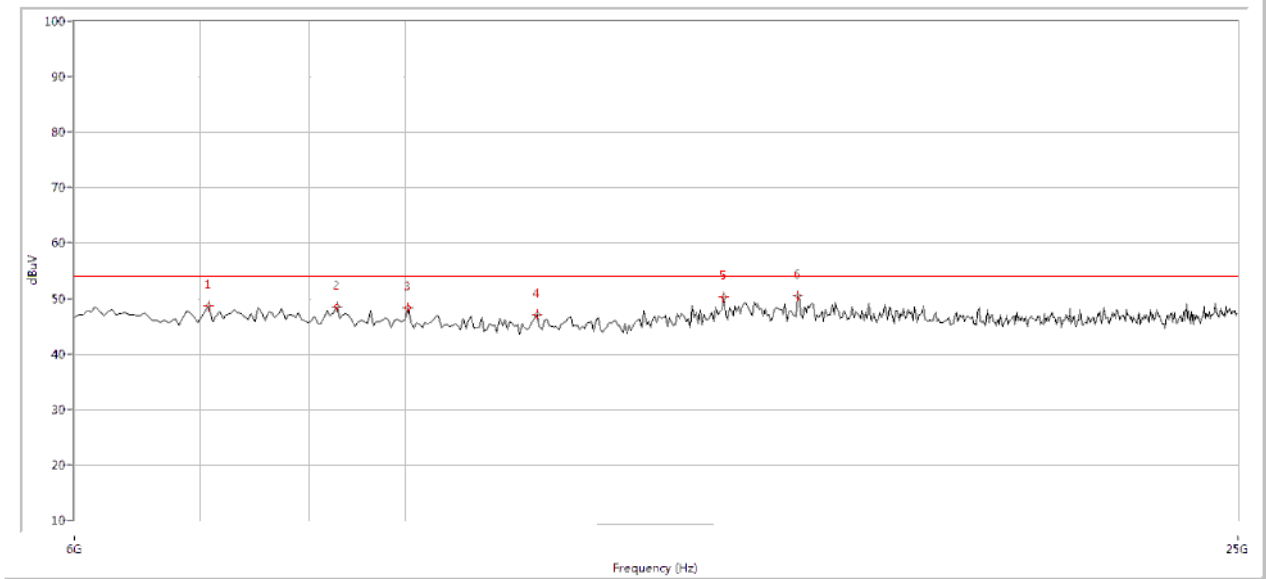
### A.8.25, 802.11g LOW CHANNEL 1GHz to 6GHz, ANT V



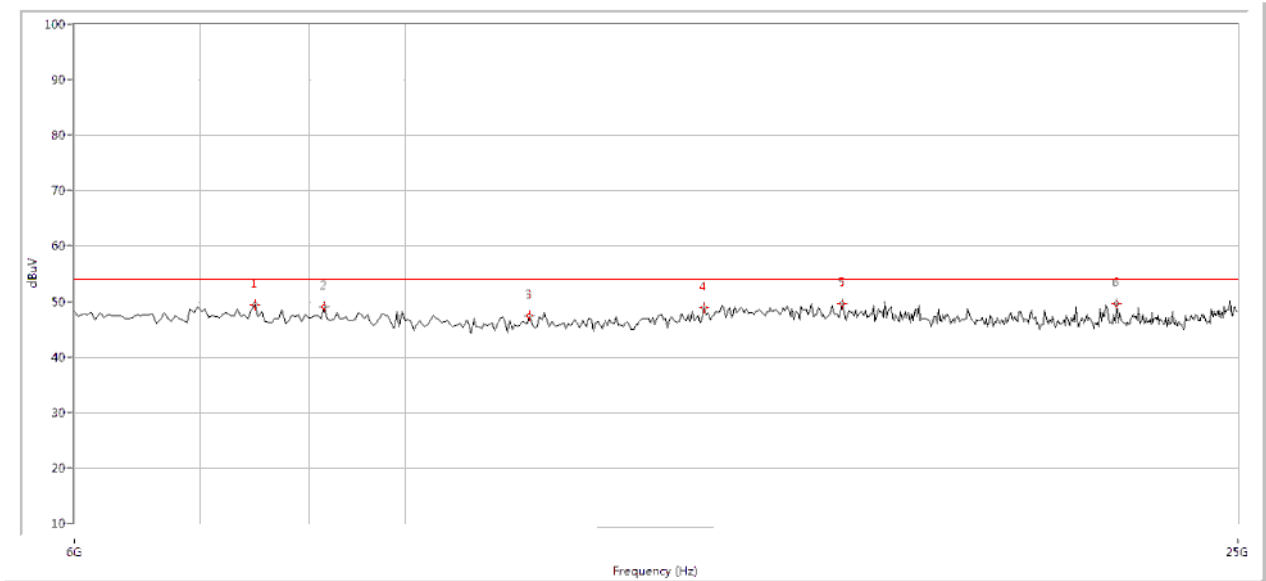
### A.8.26, 802.11g LOW CHANNEL 1GHz to 6GHz, ANT H



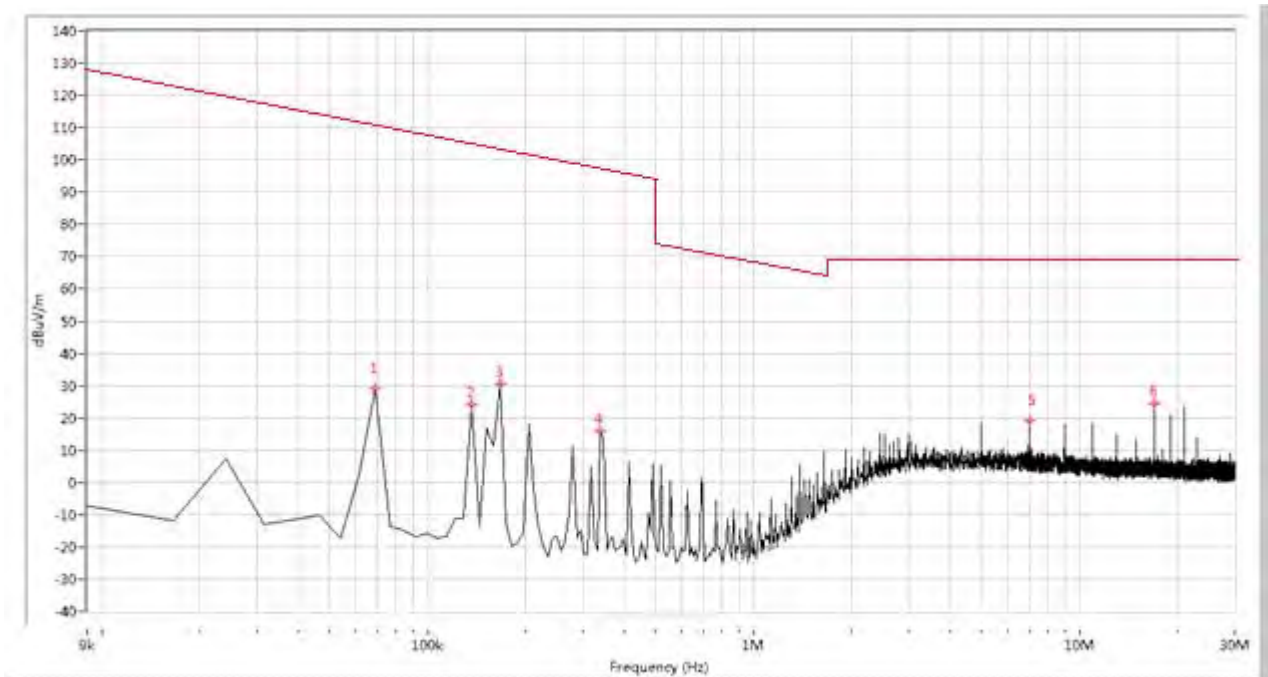
## A.8.27, 802.11g LOW CHANNEL 6GHz to 25GHz, ANT V



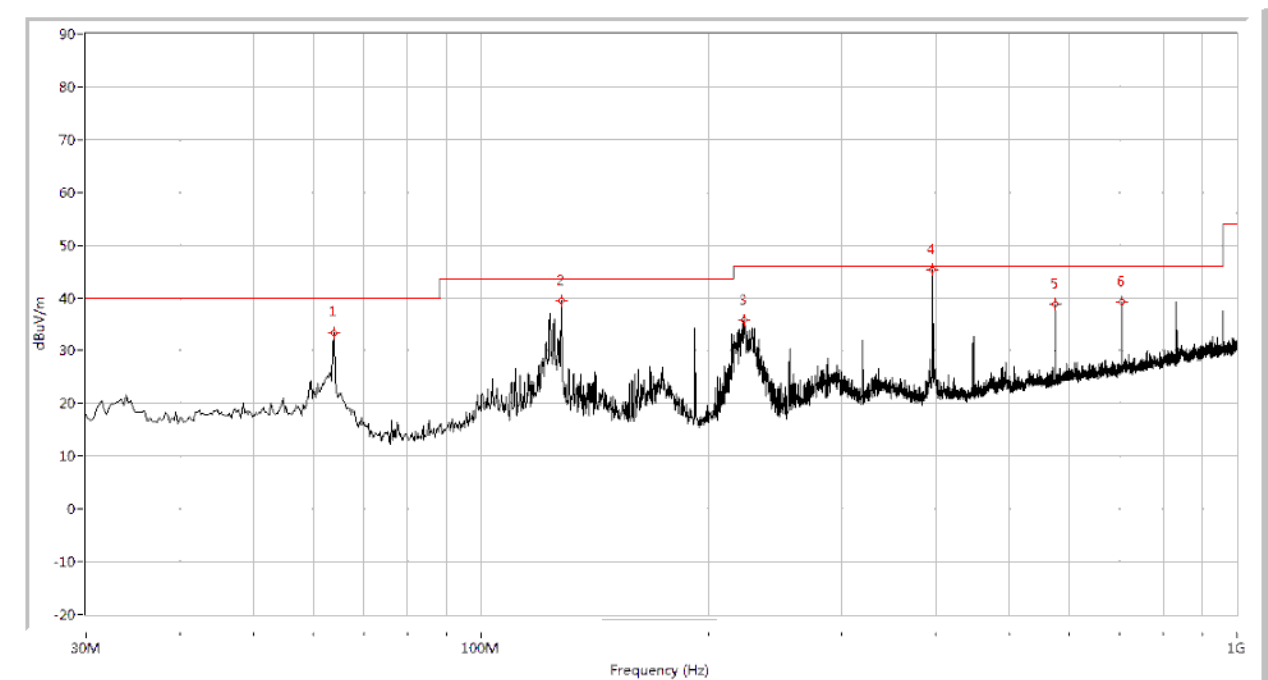
## A.8.28, 802.11g LOW CHANNEL 6GHz to 25GHz, ANT H



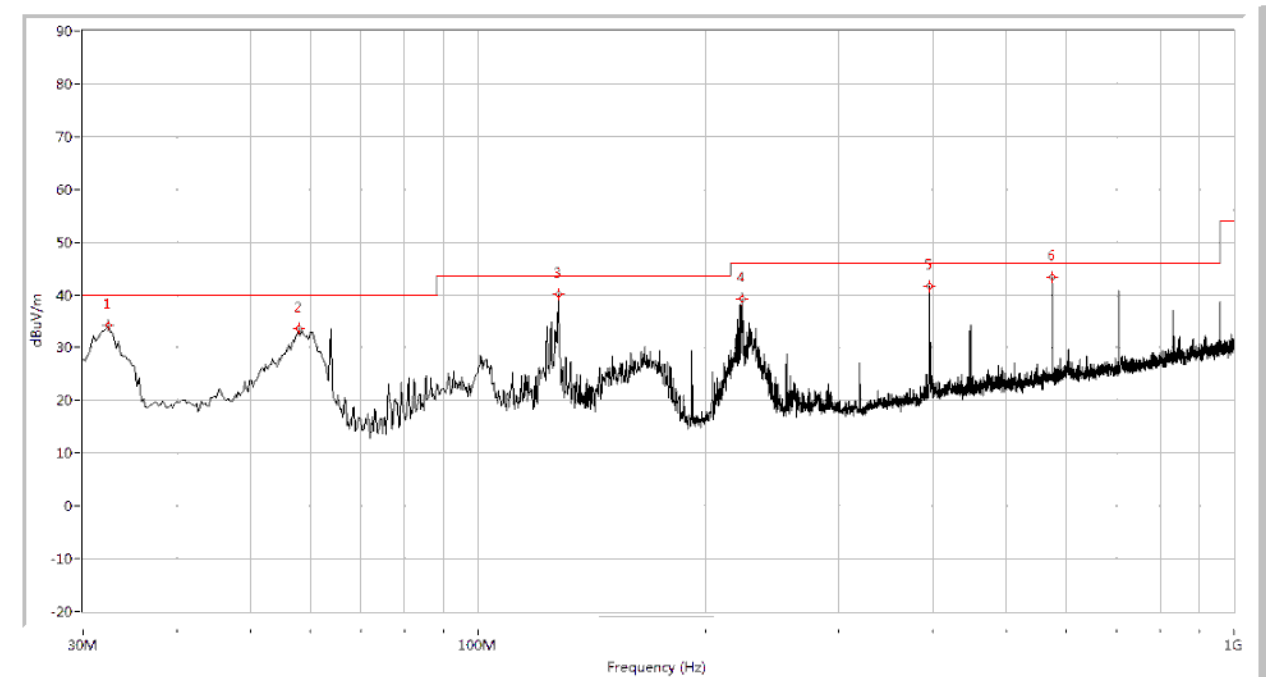
### A.8.29, 802.11g MID CHANNEL Below 30MHz



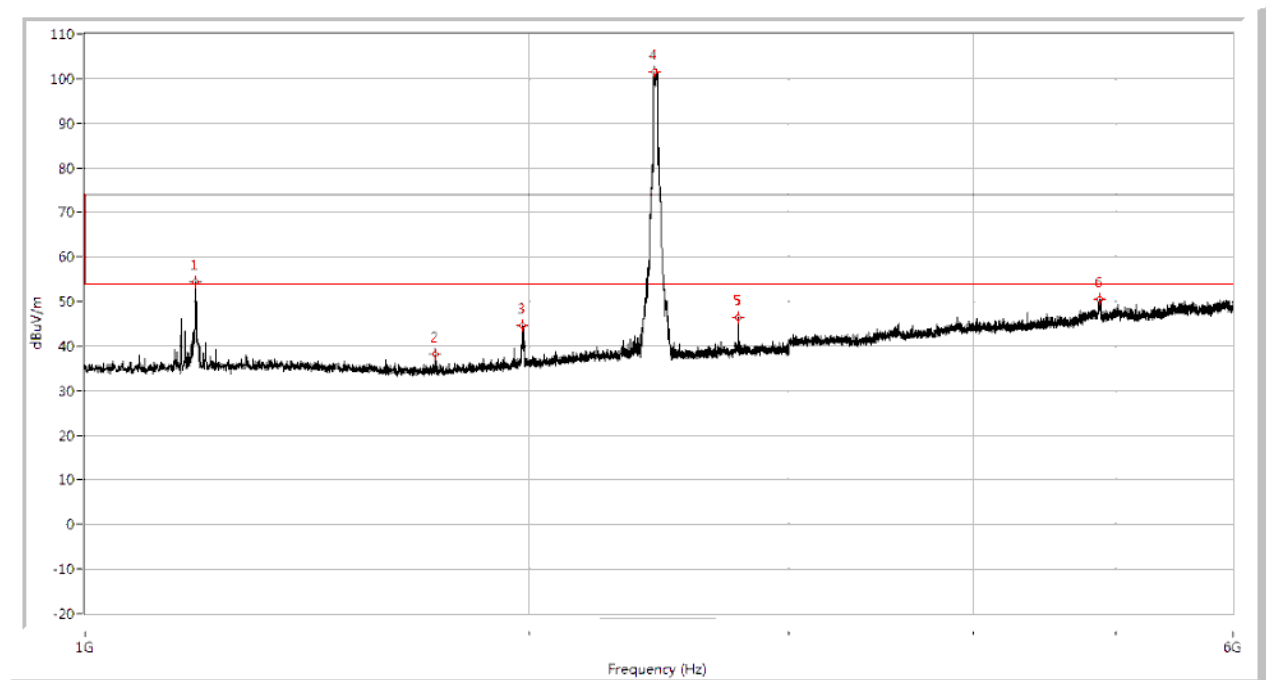
### A.8.30, 802.11g MID CHANNEL 30MHz to 1GHz, ANT V



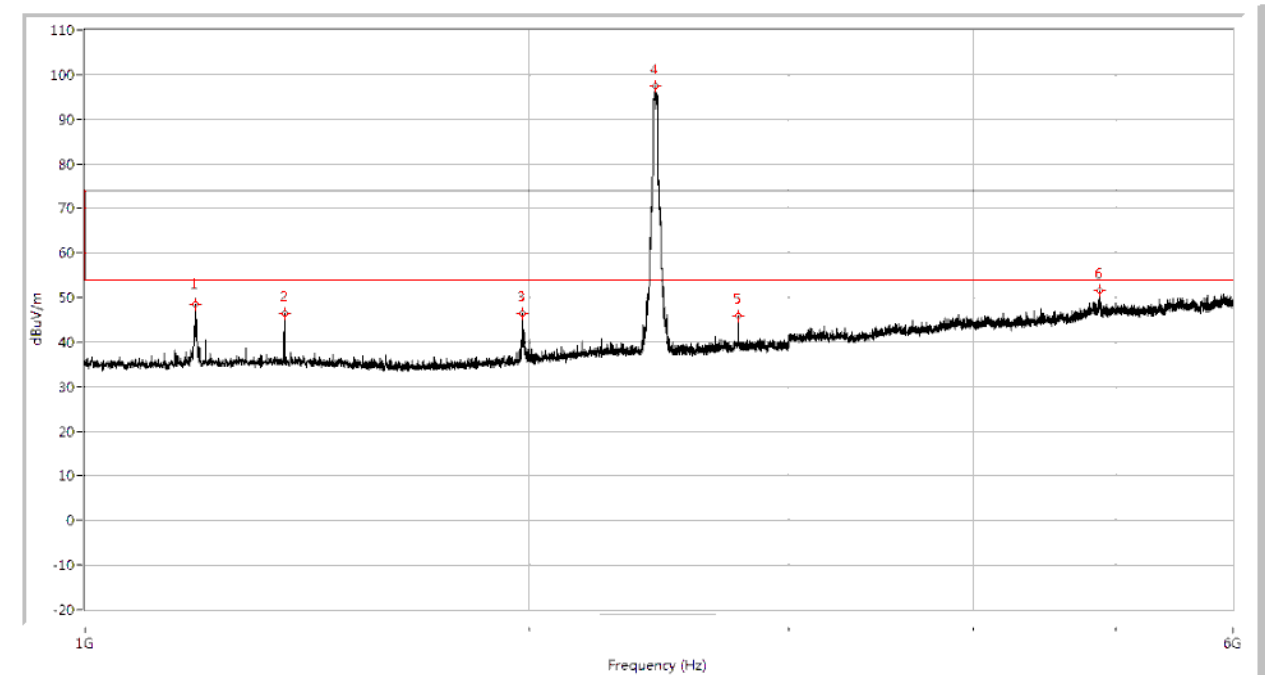
### A.8.31, 802.11g MID CHANNEL 30MHz to 1GHz, ANT H



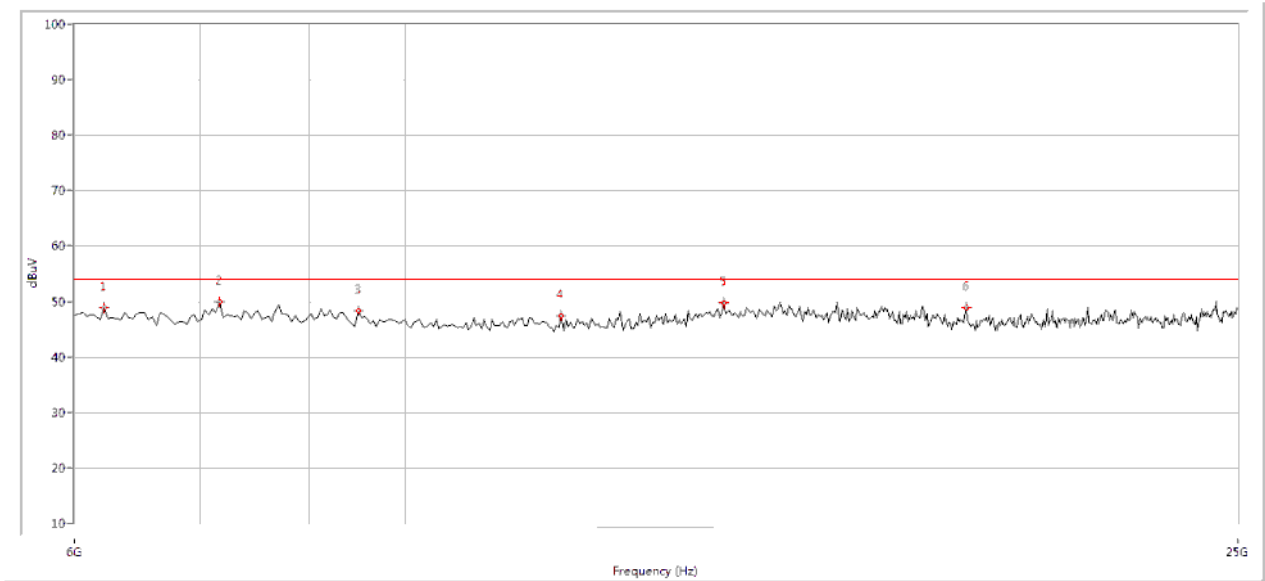
### A.8.32, 802.11g MID CHANNEL 1GHz to 6GHz, ANT V



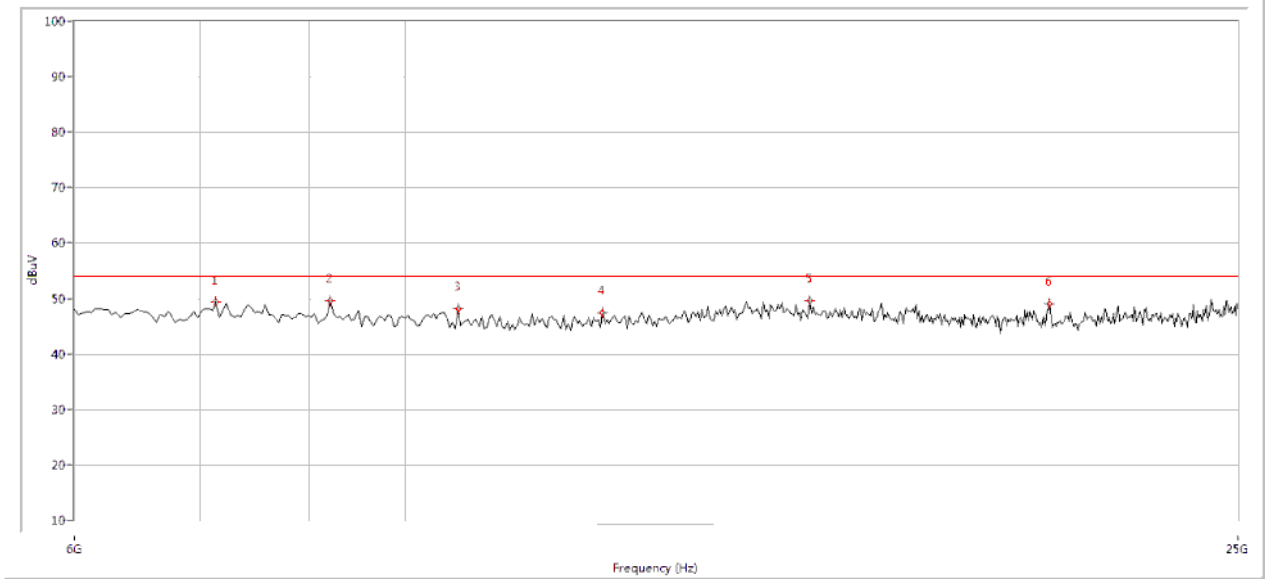
### A.8.34, 802.11g MID CHANNEL 1GHz to 6GHz, ANT H



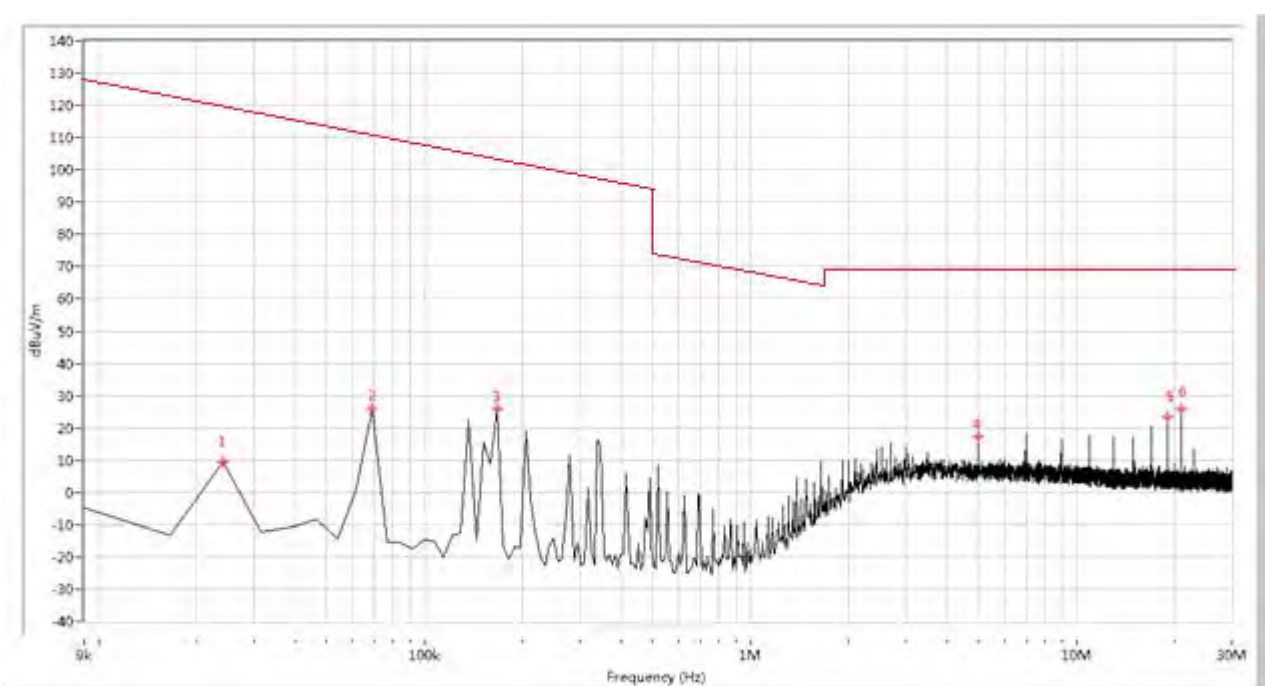
### A.8.35, 802.11g MID CHANNEL 6GHz to 25GHz, ANT V



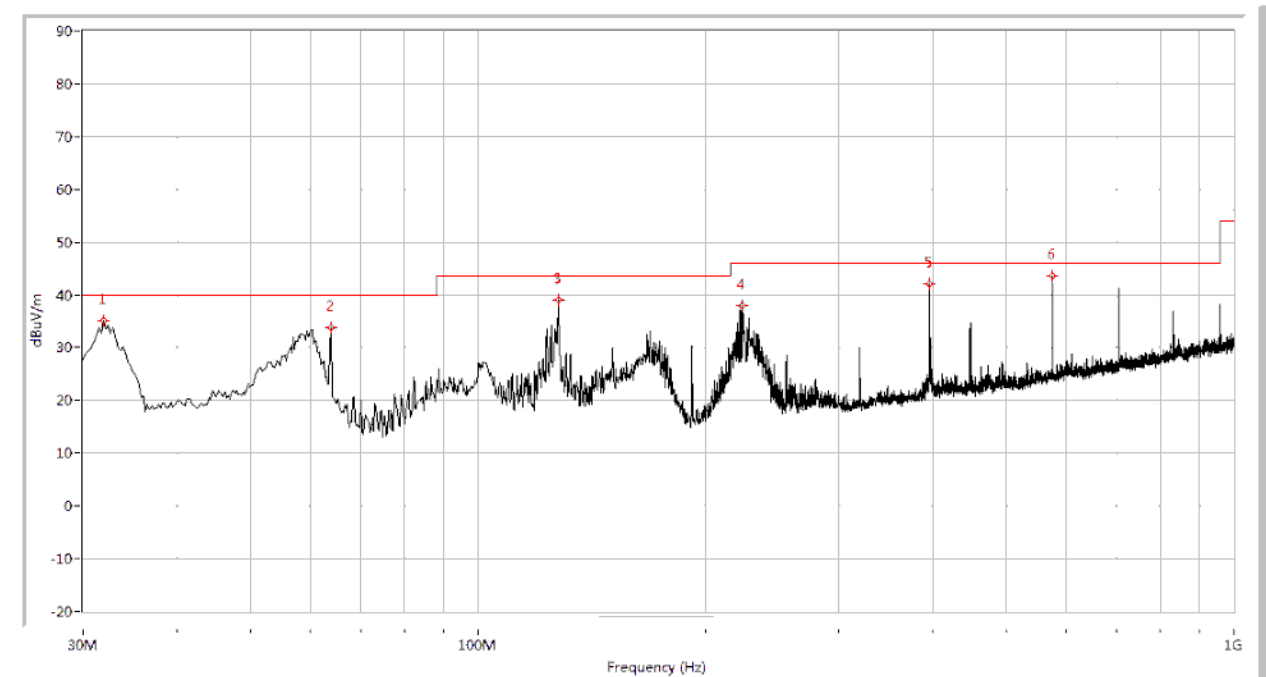
### A.8.36, 802.11g MID CHANNEL 6GHz to 25GHz, ANT H



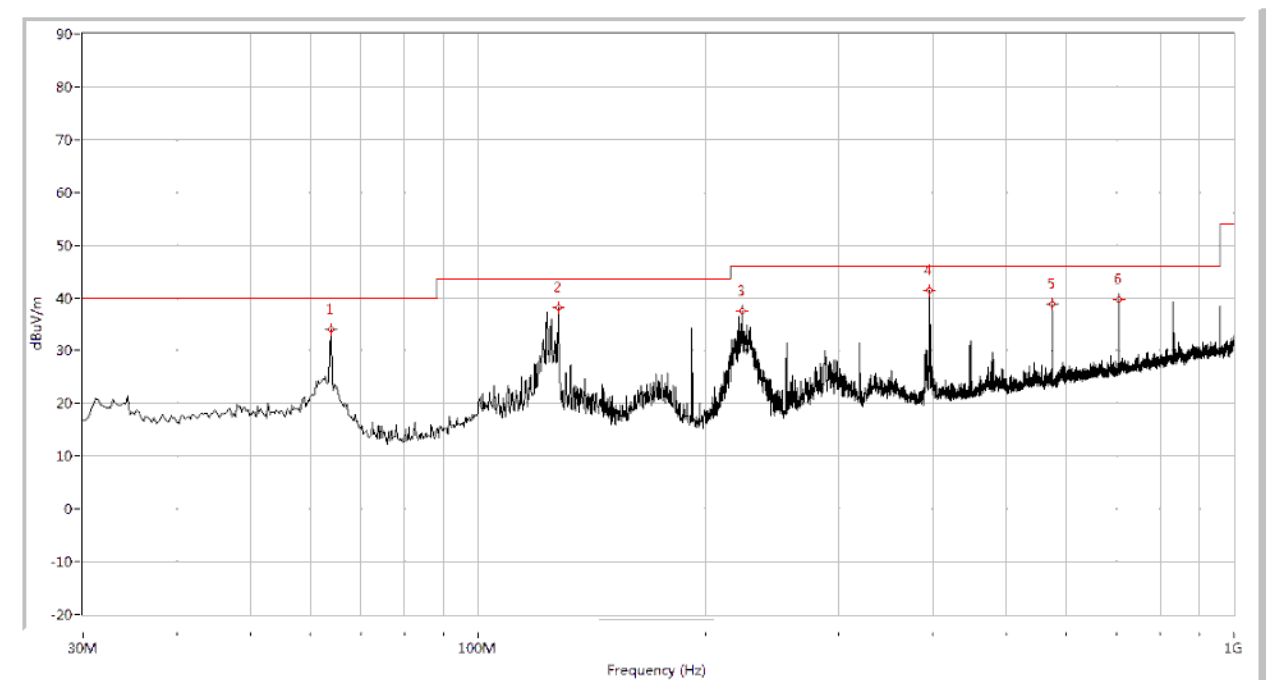
### A.8.37, 802.11g HIGH CHANNEL Below 30MHz



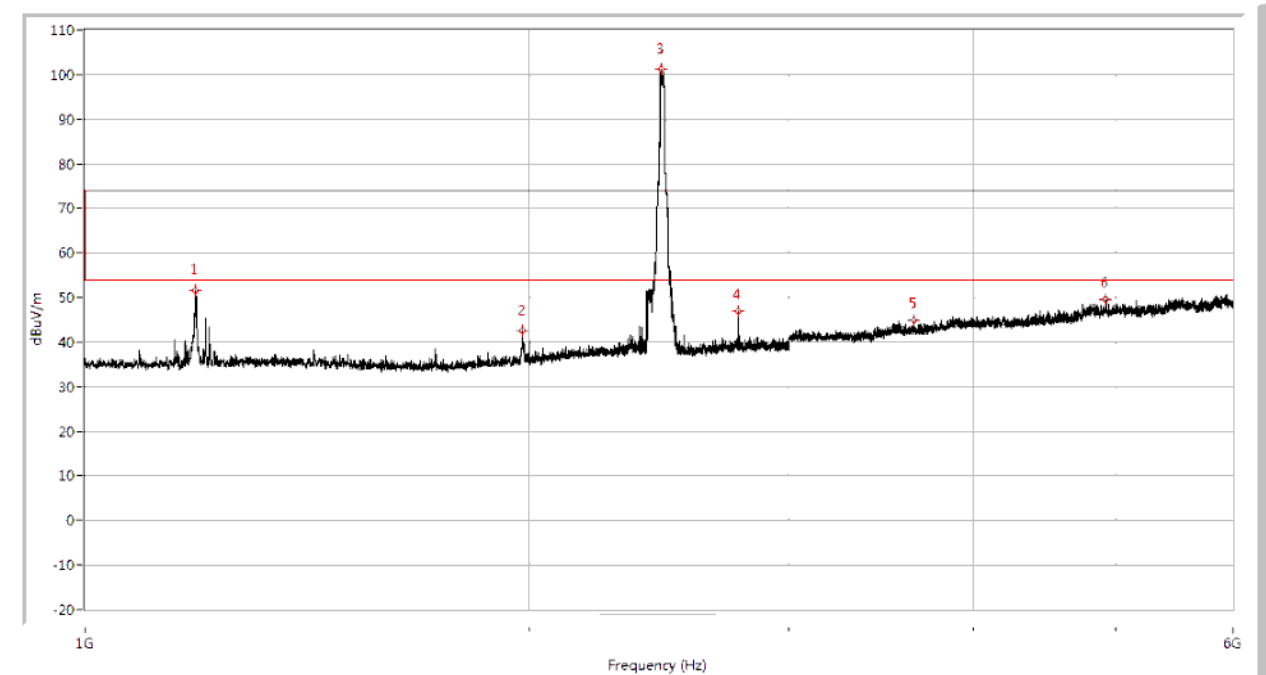
### A.8.38, 802.11g HIGH CHANNEL 30MHz to 1GHz, ANT V



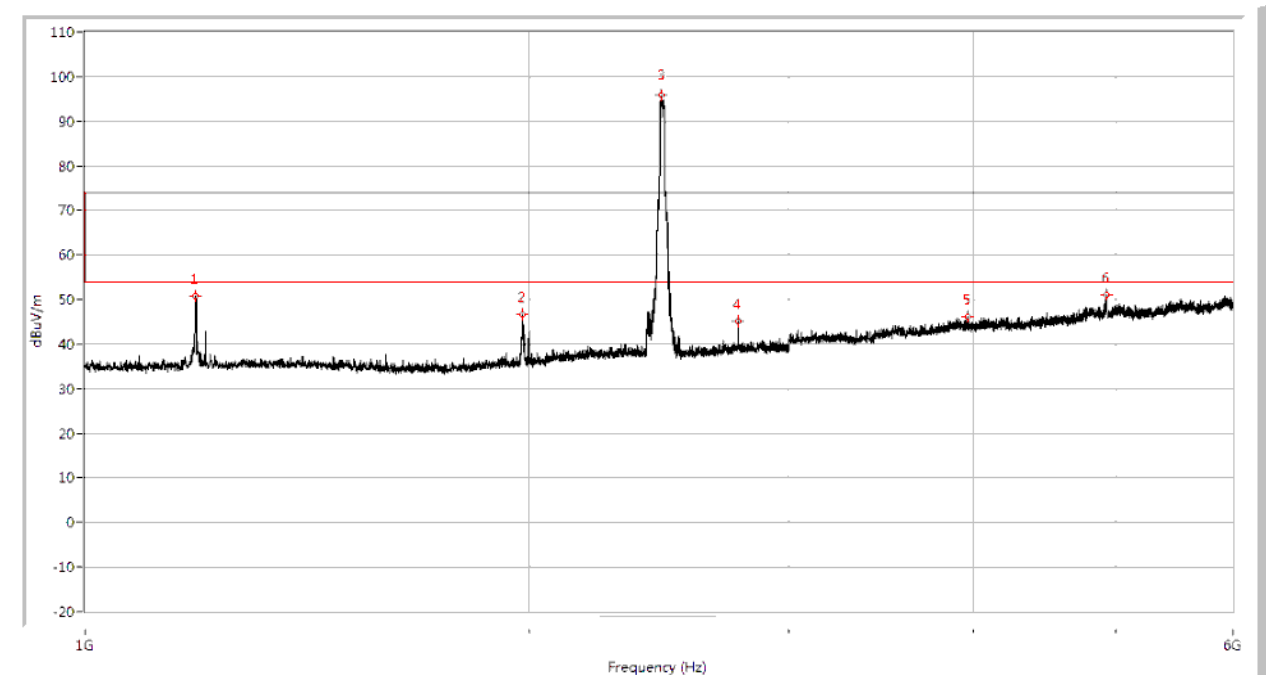
### A.8.39, 802.11g HIGH CHANNEL 30MHz to 1GHz, ANT H



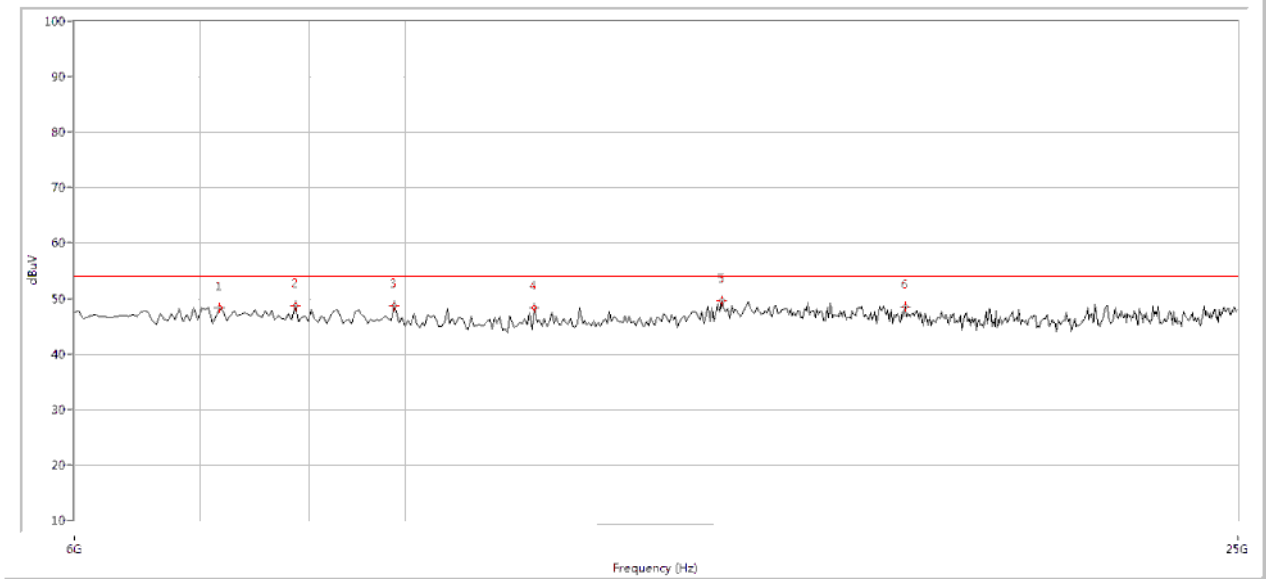
#### A.8.40, 802.11g HIGH CHANNEL 1GHz to 6GHz, ANT V



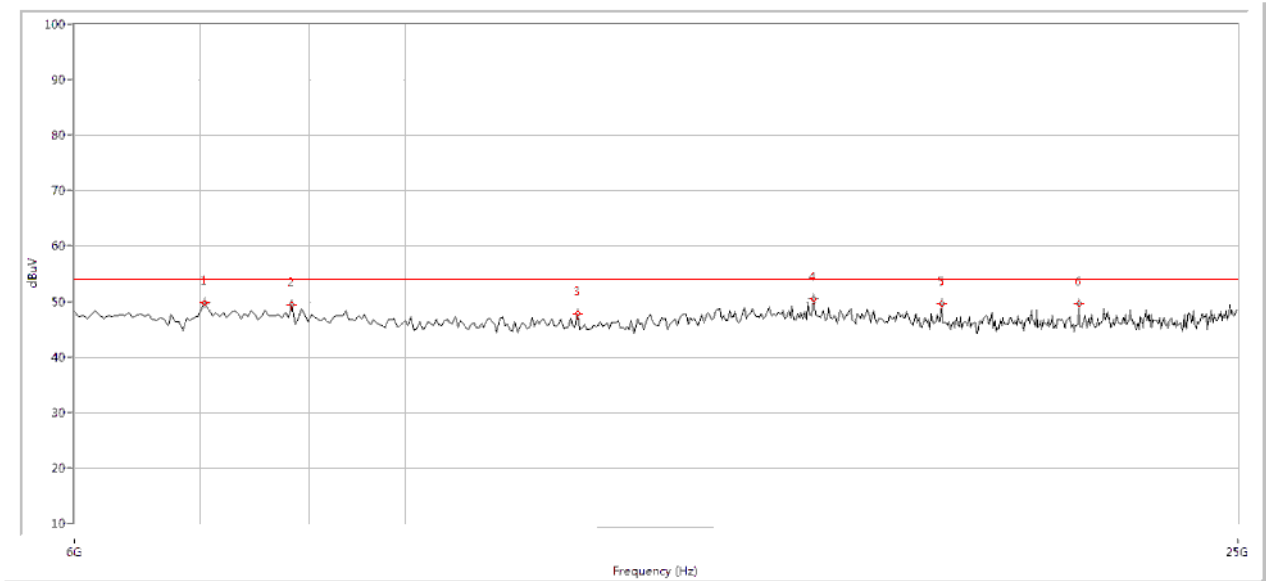
#### A.8.41, 802.11g HIGH CHANNEL 1GHz to 6GHz, ANT H



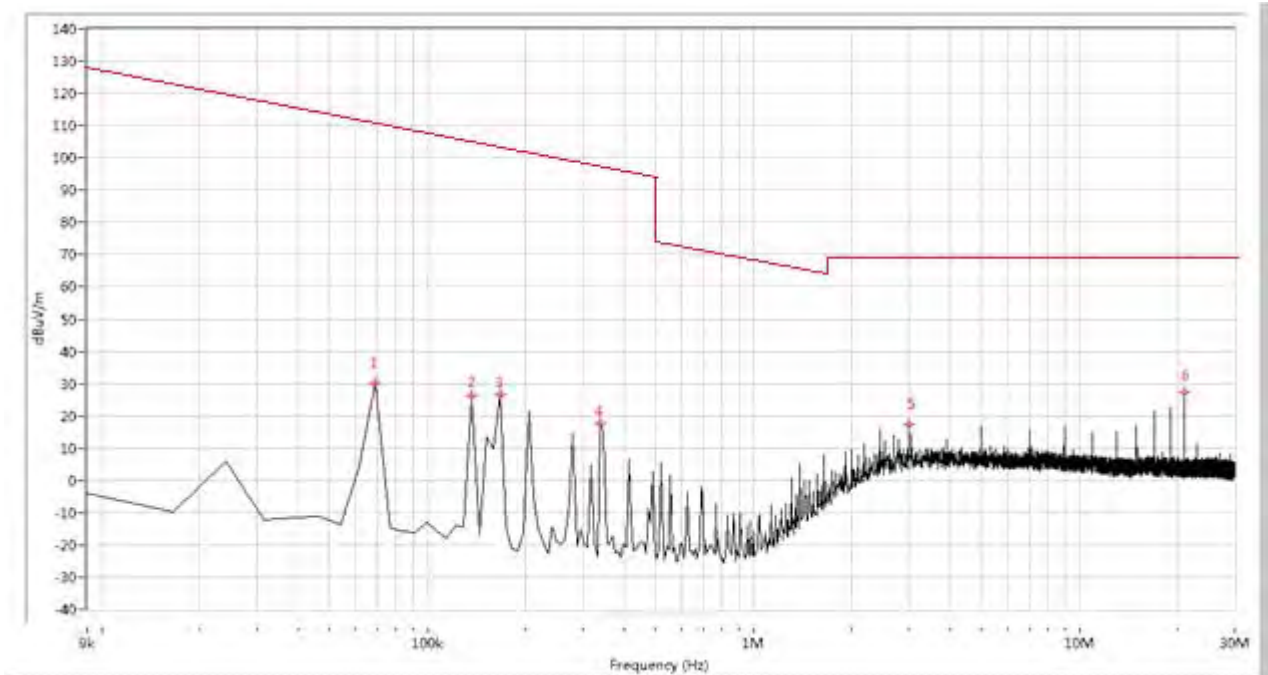
## A.8.42, 802.11g HIGH CHANNEL 6GHz to 25GHz, ANT V



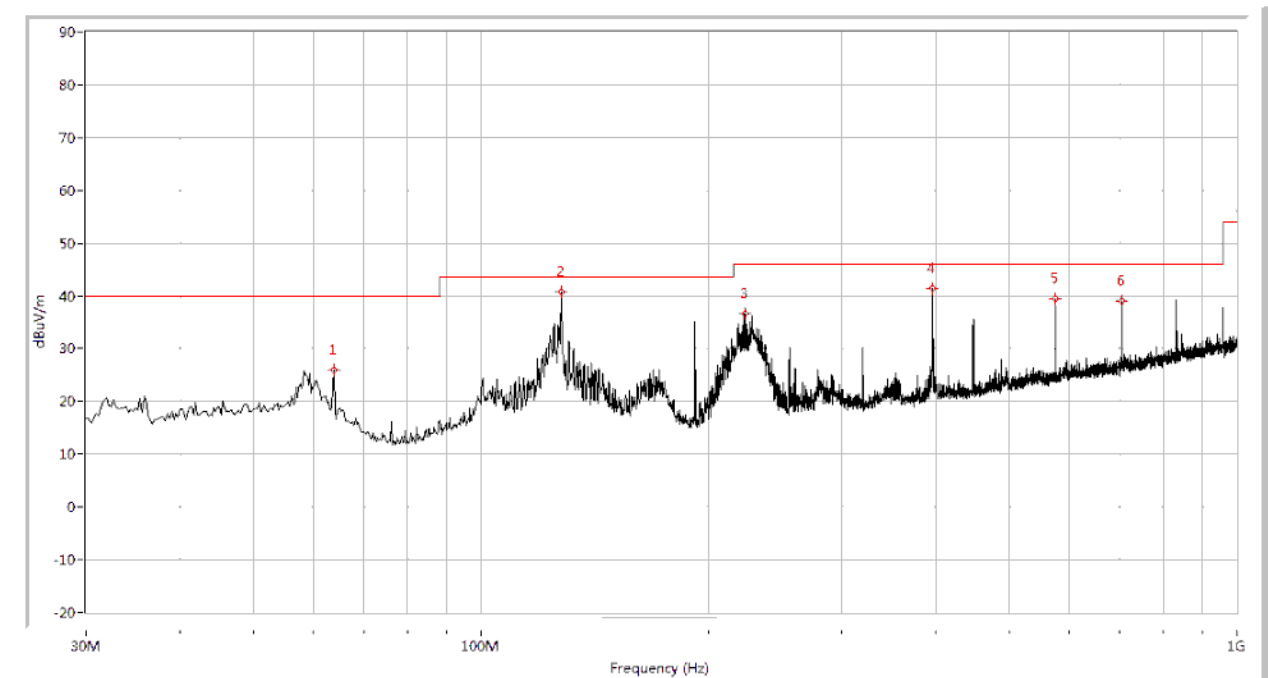
## A.8.43, 802.11g HIGH CHANNEL 6GHz to 25GHz, ANT H



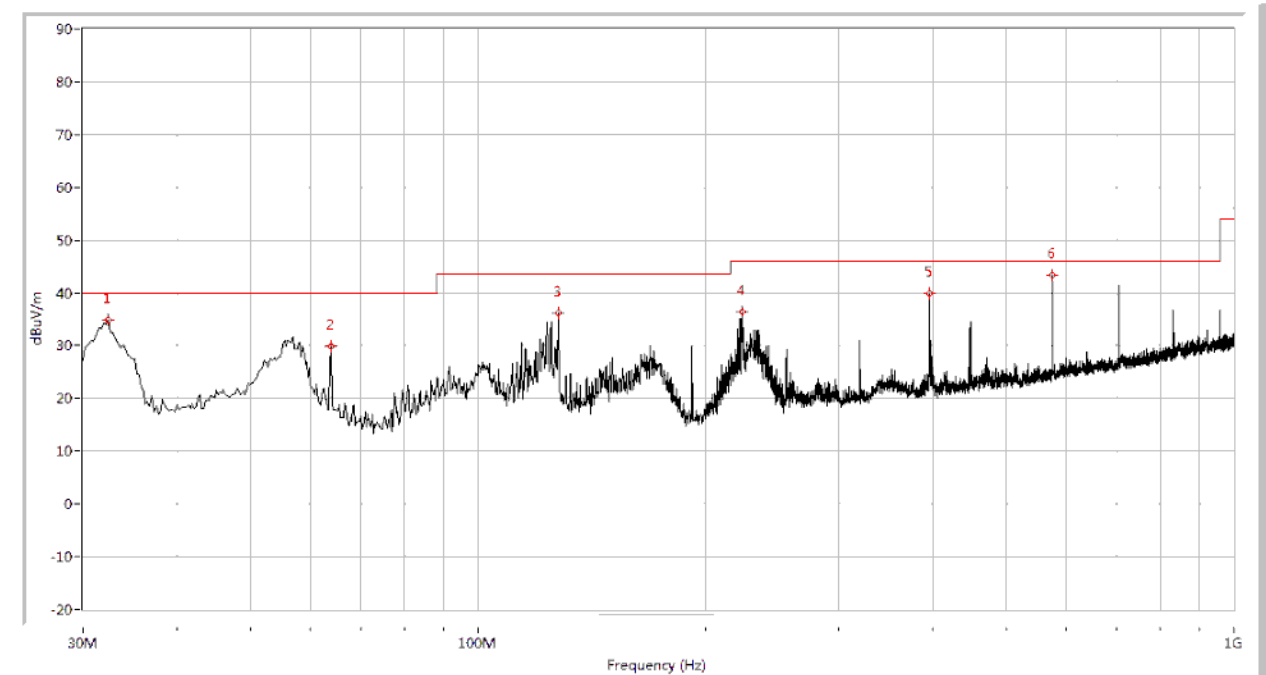
#### A.8.44, 802.11n-20MHz LOW CHANNEL Below 30MHz



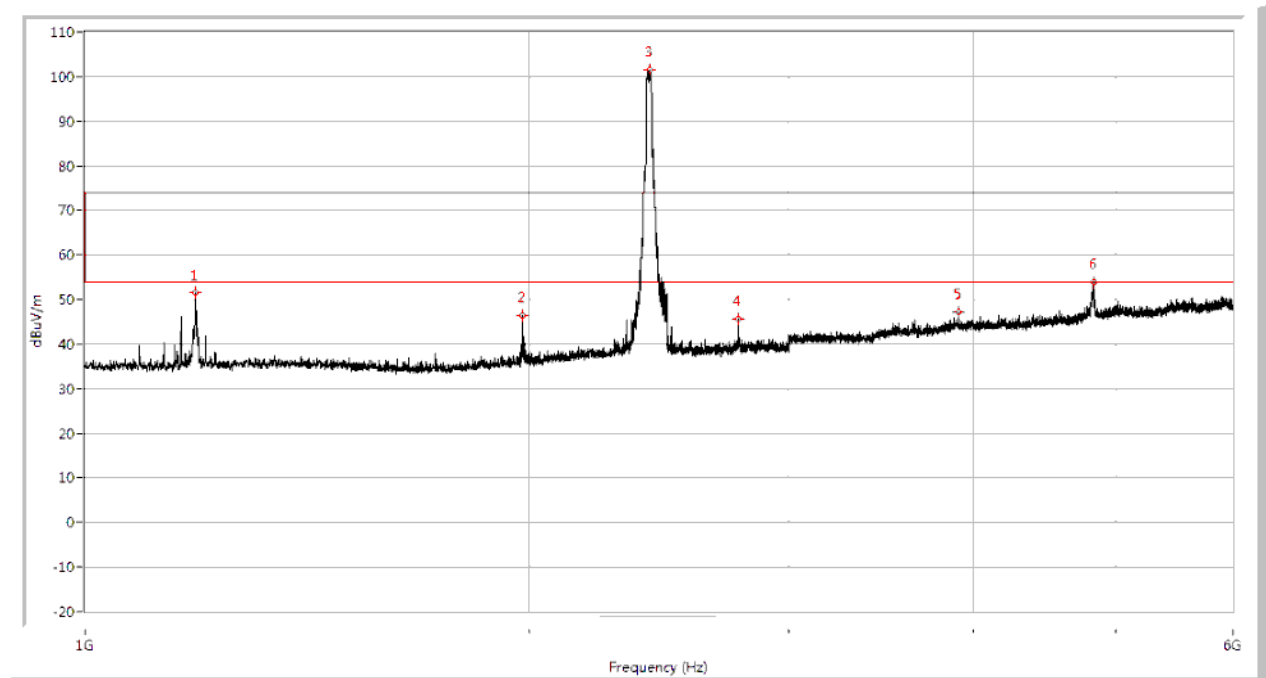
#### A.8.45, 802.11n-20MHz LOW CHANNEL 30MHz to 1GHz, ANT V



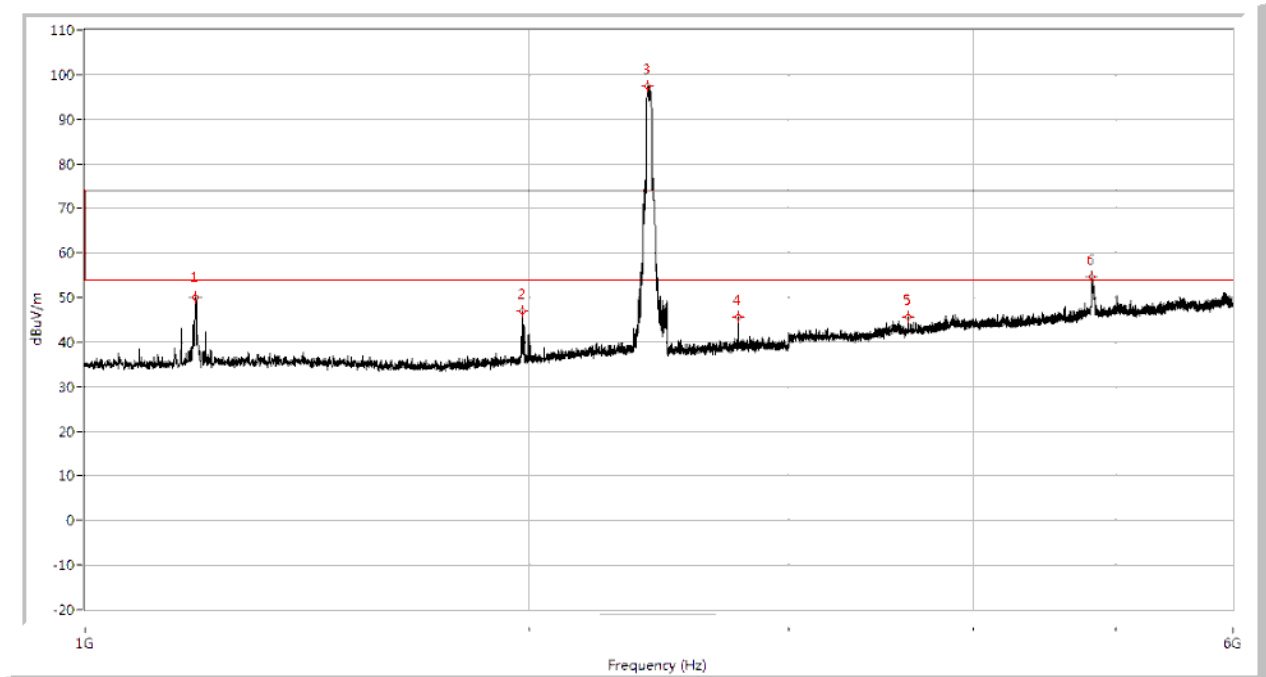
### A.8.46, 802.11n-20MHz LOW CHANNEL 30MHz to 1GHz, ANT H



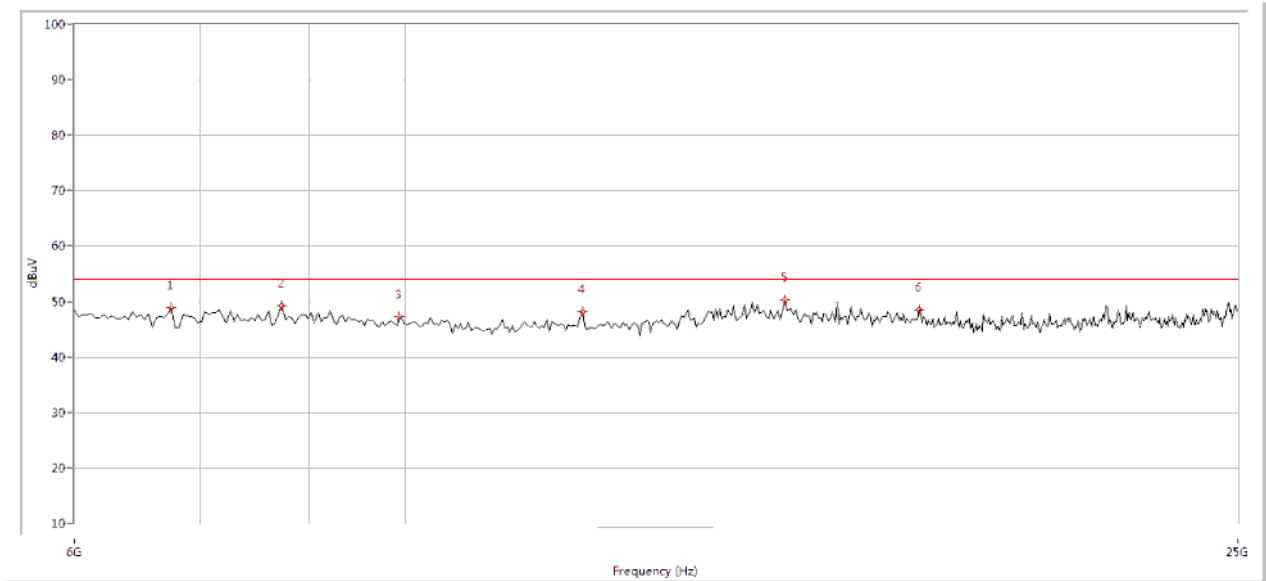
### A.8.47, 802.11n-20MHz LOW CHANNEL 1GHz to 6GHz, ANT V



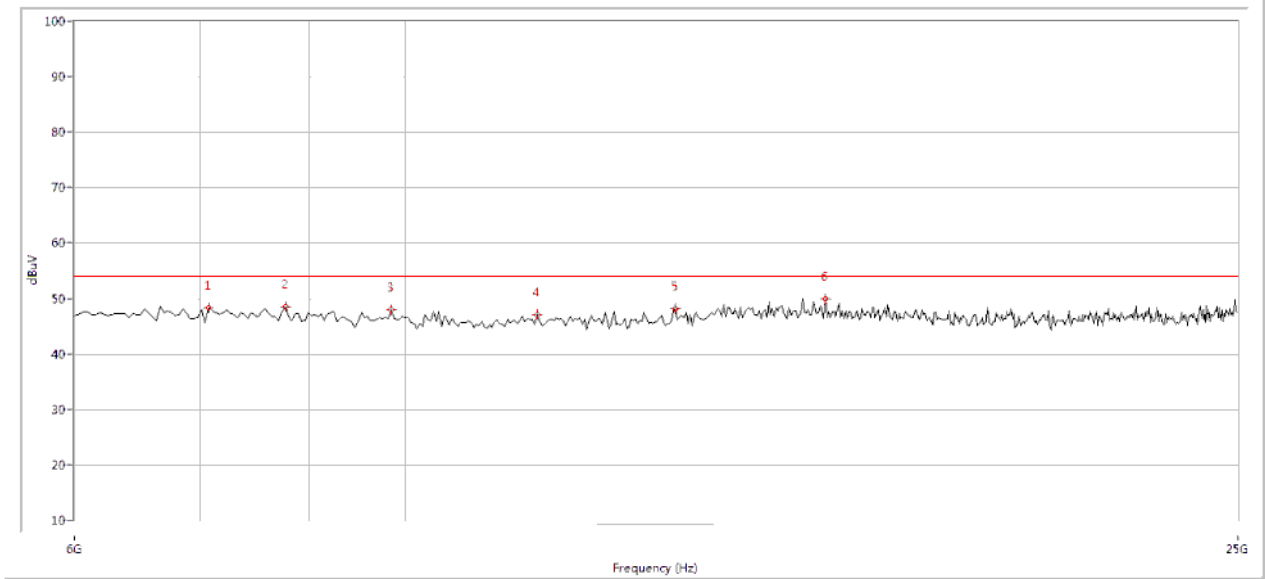
### A.8.48, 802.11n-20MHz LOW CHANNEL 1GHz to 6GHz, ANT H



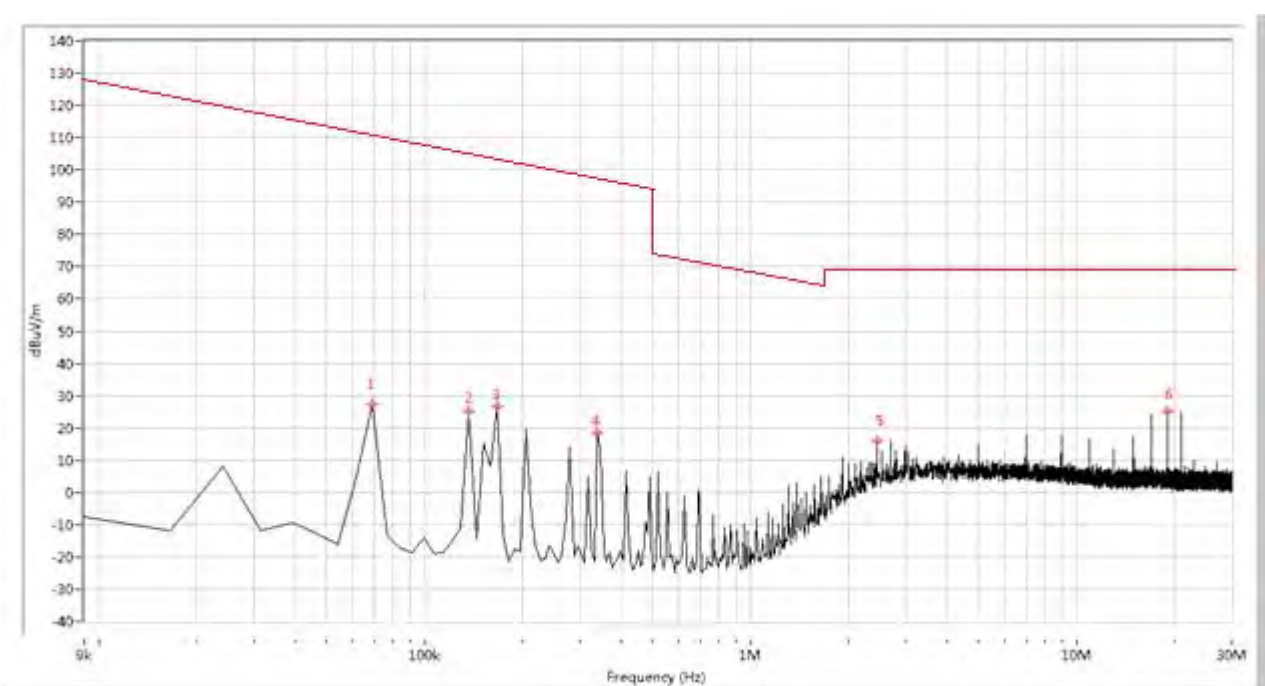
### A.8.49, 802.11n-20MHz LOW CHANNEL 6GHz to 25GHz, ANT V



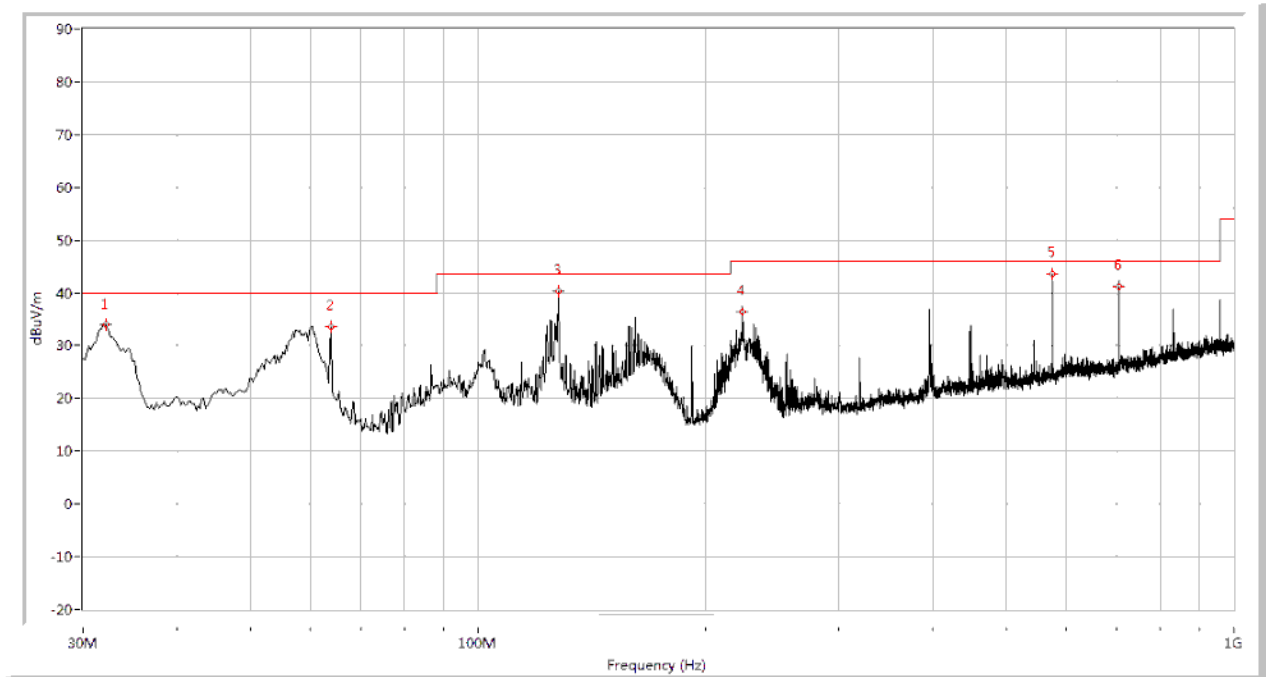
### A.8.50, 802.11n-20MHz LOW CHANNEL 6GHz to 25GHz, ANT H



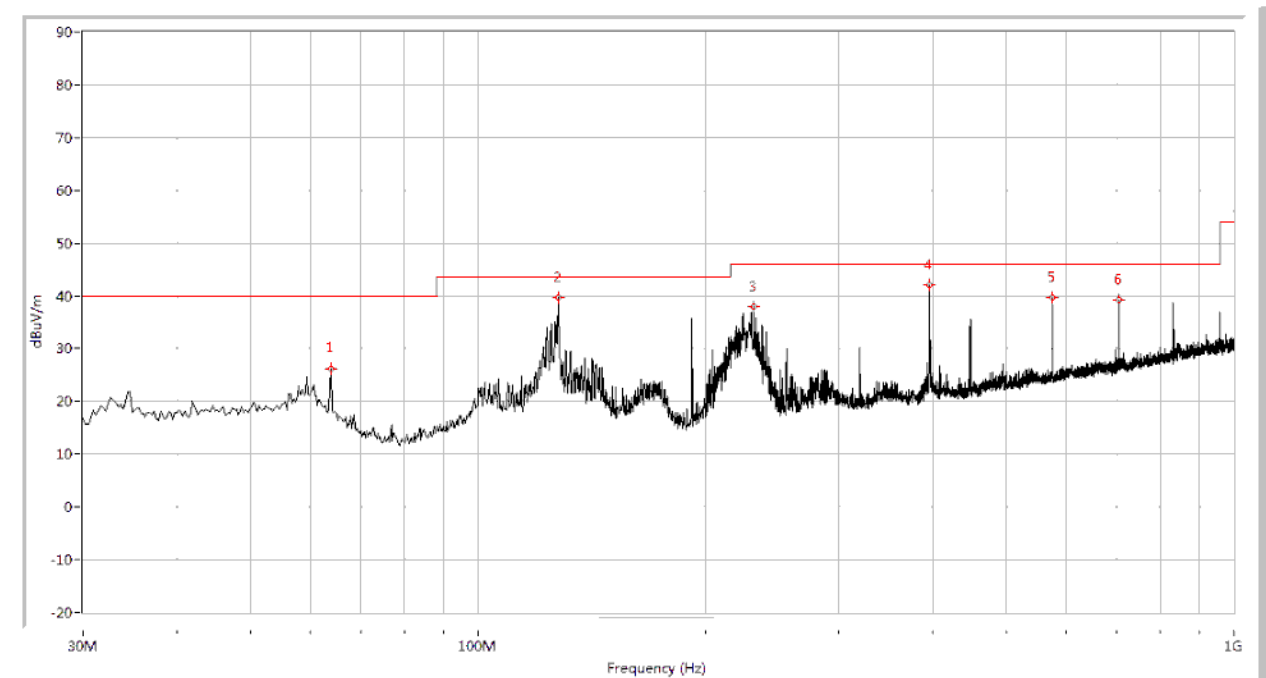
### A.8.51, 802.11n-20MHz MID CHANNEL Below 30MHz



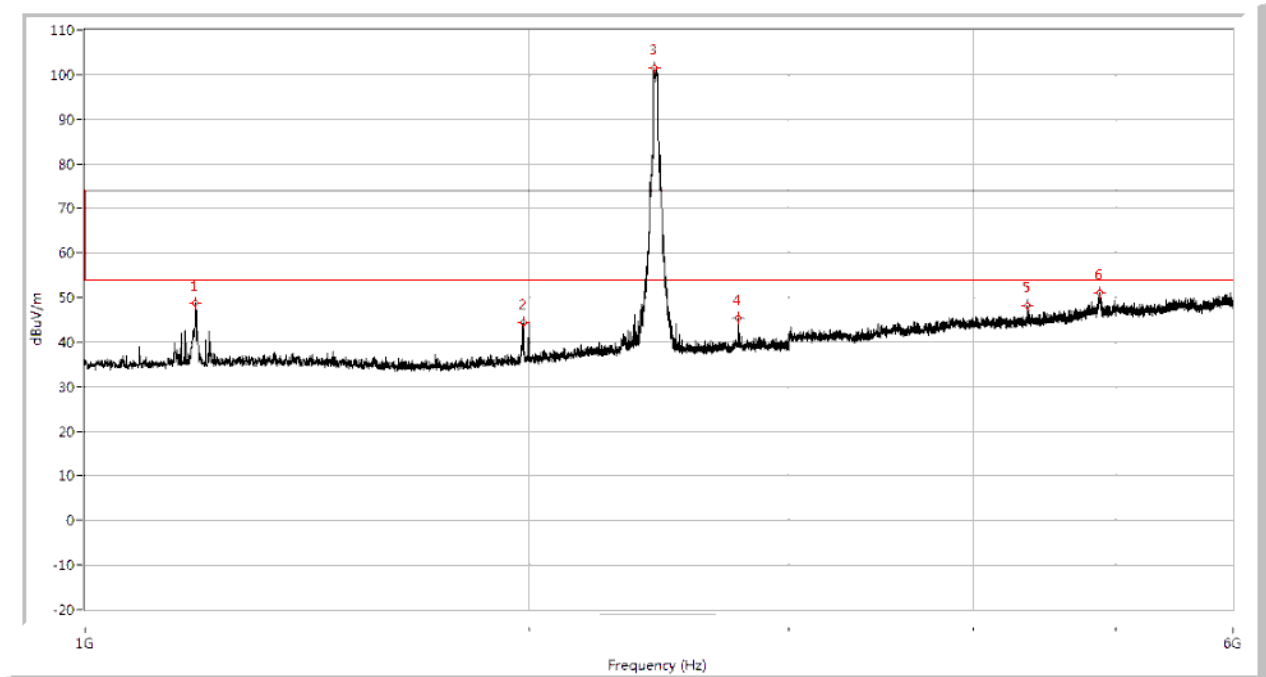
A.8.52, 802.11n-20MHz MID CHANNEL 30MHz to 1GHz, ANT V



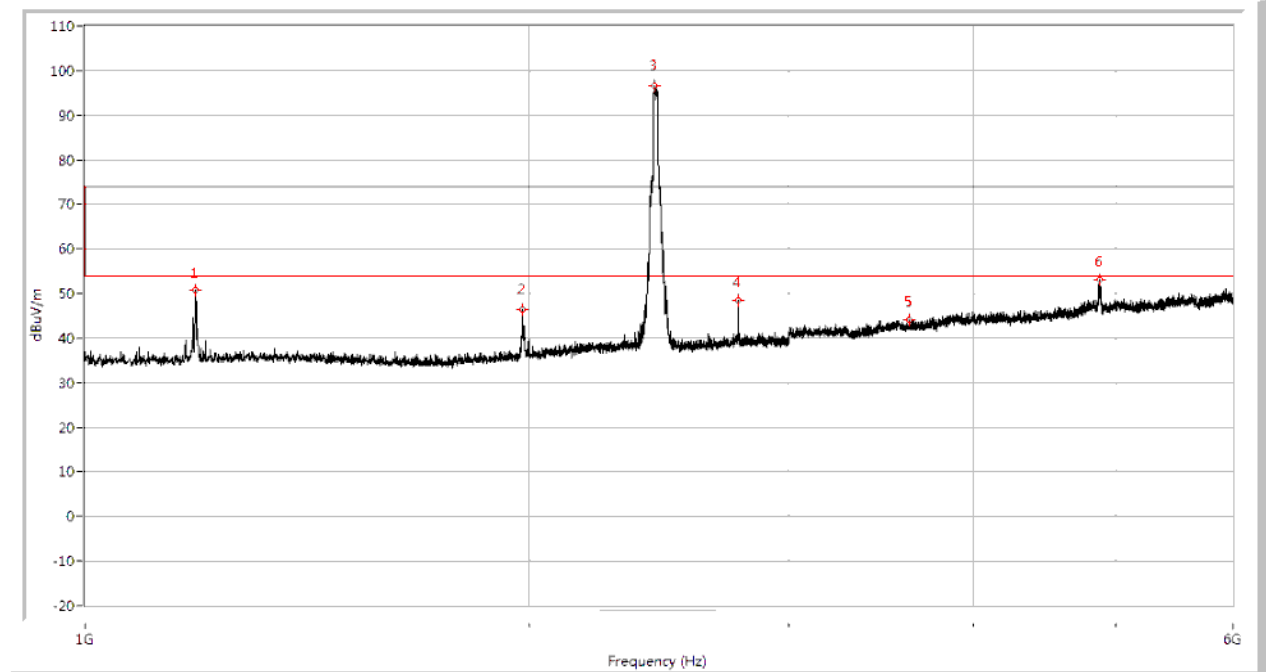
A.8.53, 802.11n-20MHz MID CHANNEL 30MHz to 1GHz, ANT H



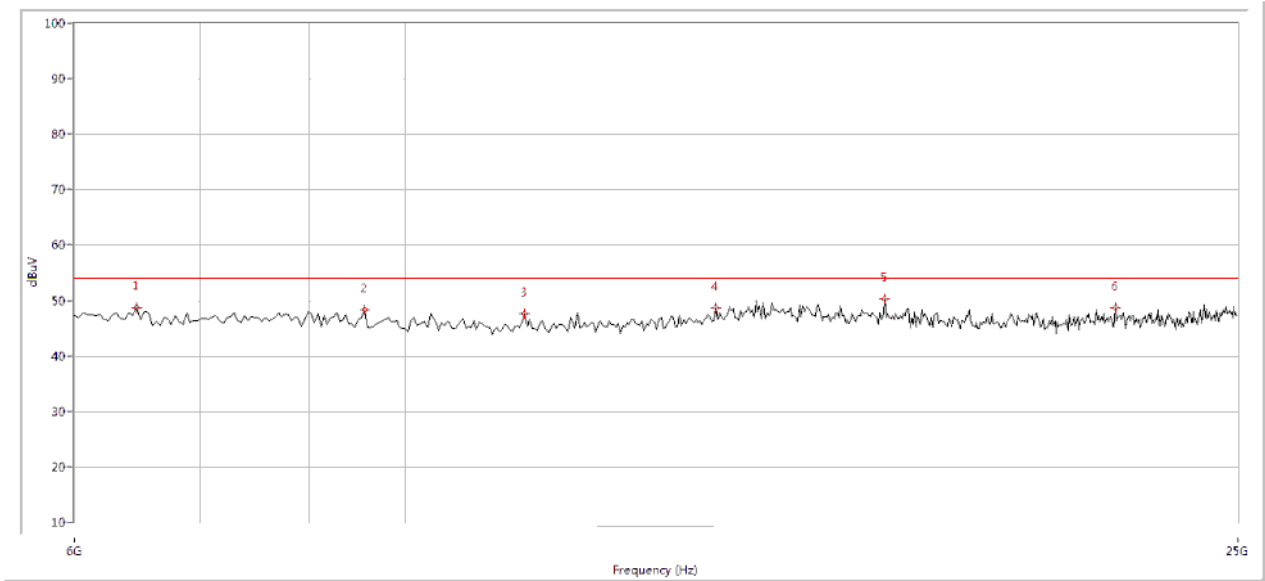
## A.8.54, 802.11n-20MHz MID CHANNEL 1GHz to 6GHz, ANT V



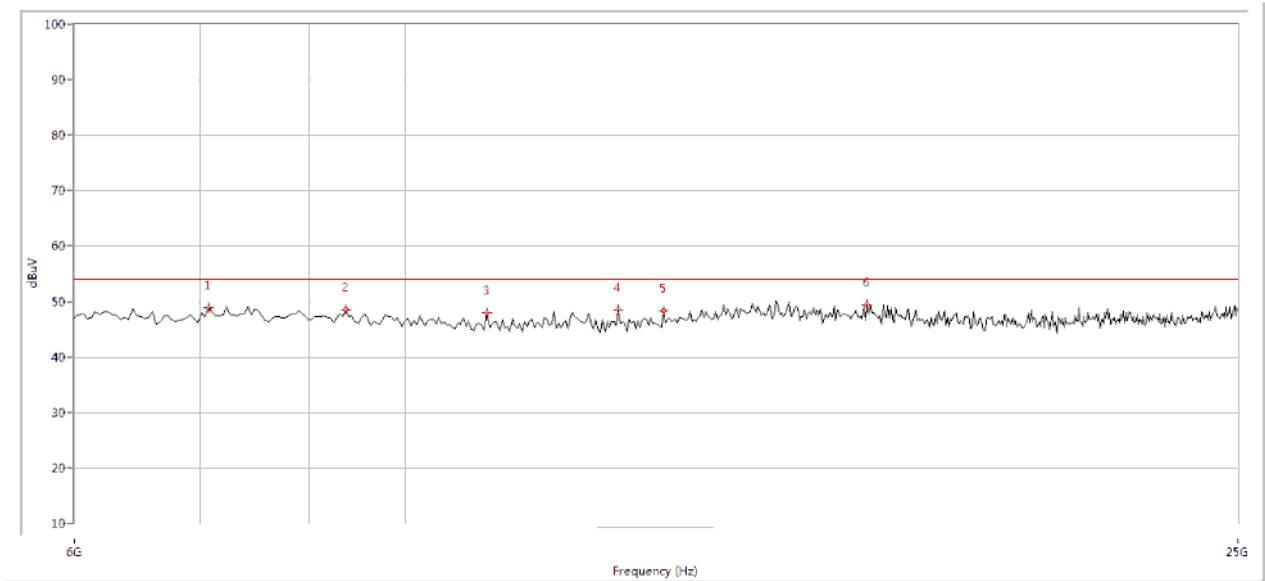
## A.8.55, 802.11n-20MHz MID CHANNEL 1GHz to 6GHz, ANT H



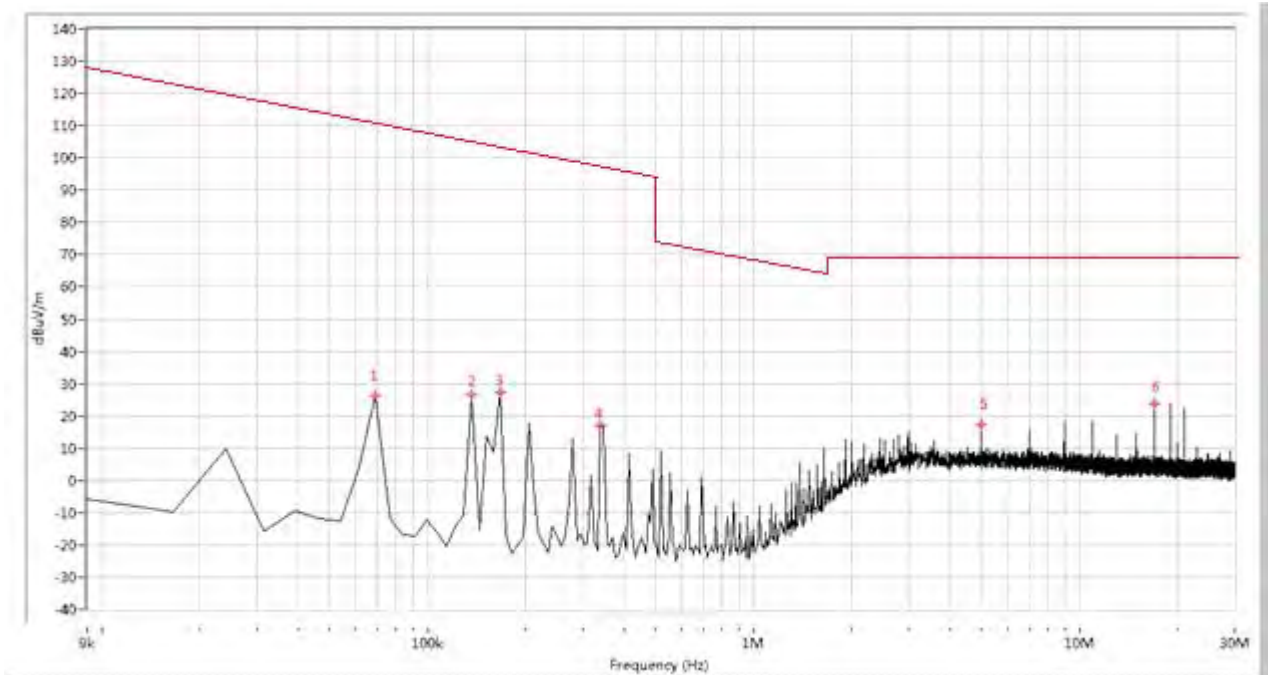
A.8.56, 802.11n-20MHz MID CHANNEL 6GHz to 25GHz, ANT V



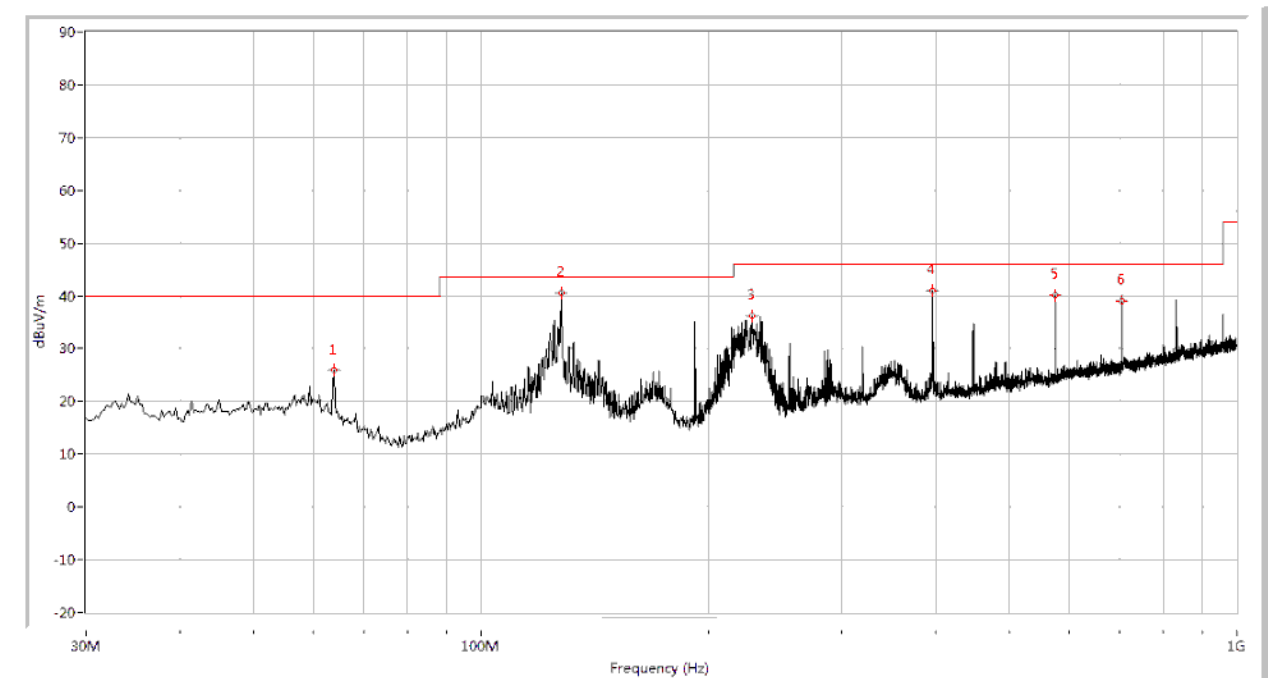
A.8.57, 802.11n-20MHz MID CHANNEL 6GHz to 25GHz, ANT H



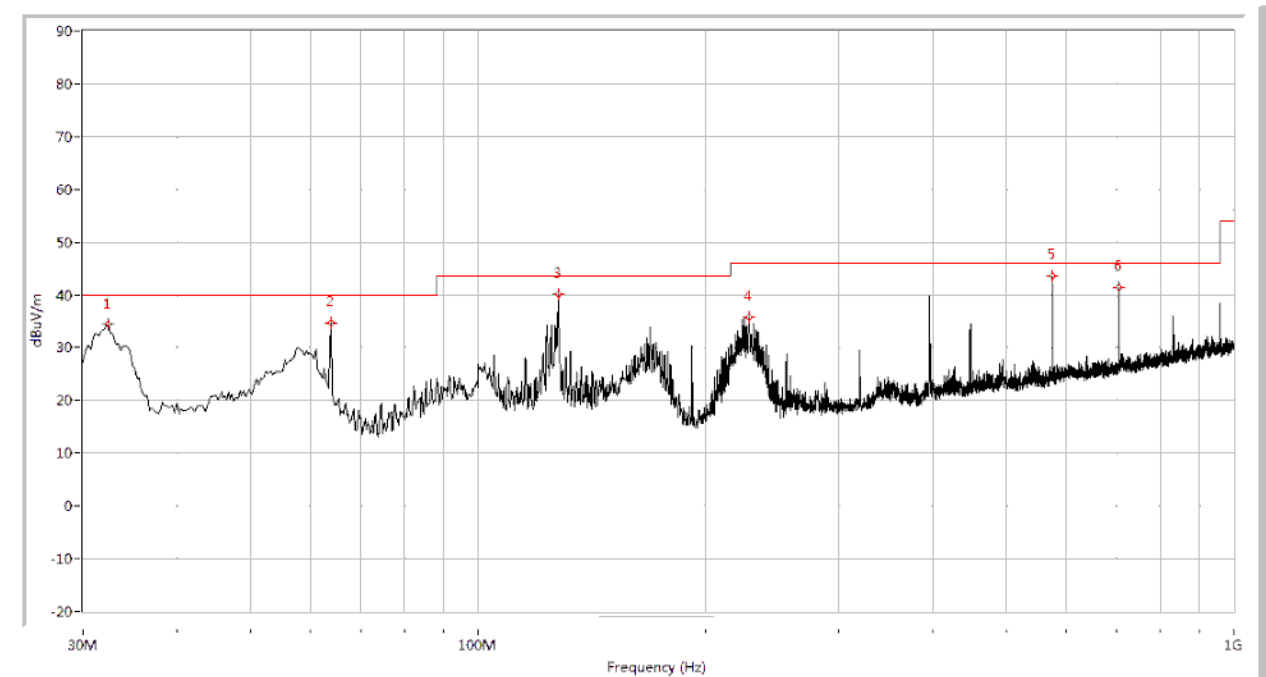
### A.8.58, 802.11n-20MHz HIGH CHANNEL Below 30MHz



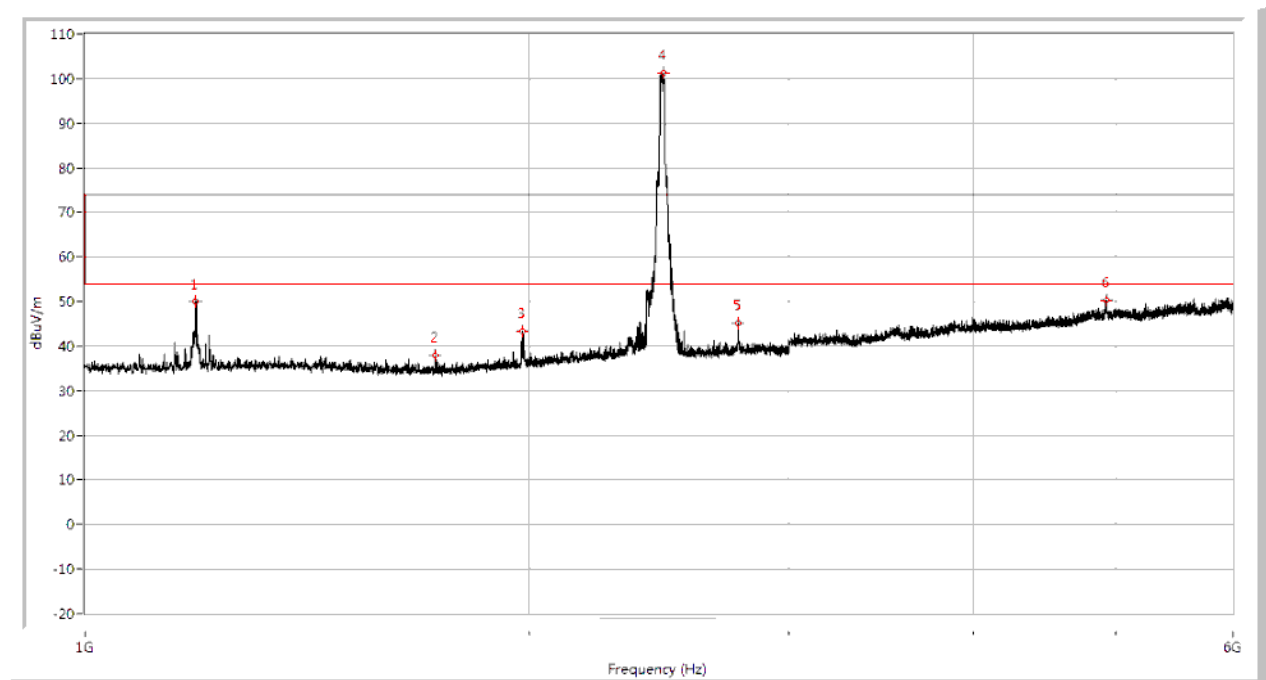
### A.8.59, 802.11n-20MHz HIGH CHANNEL 30MHz to 1GHz, ANT V



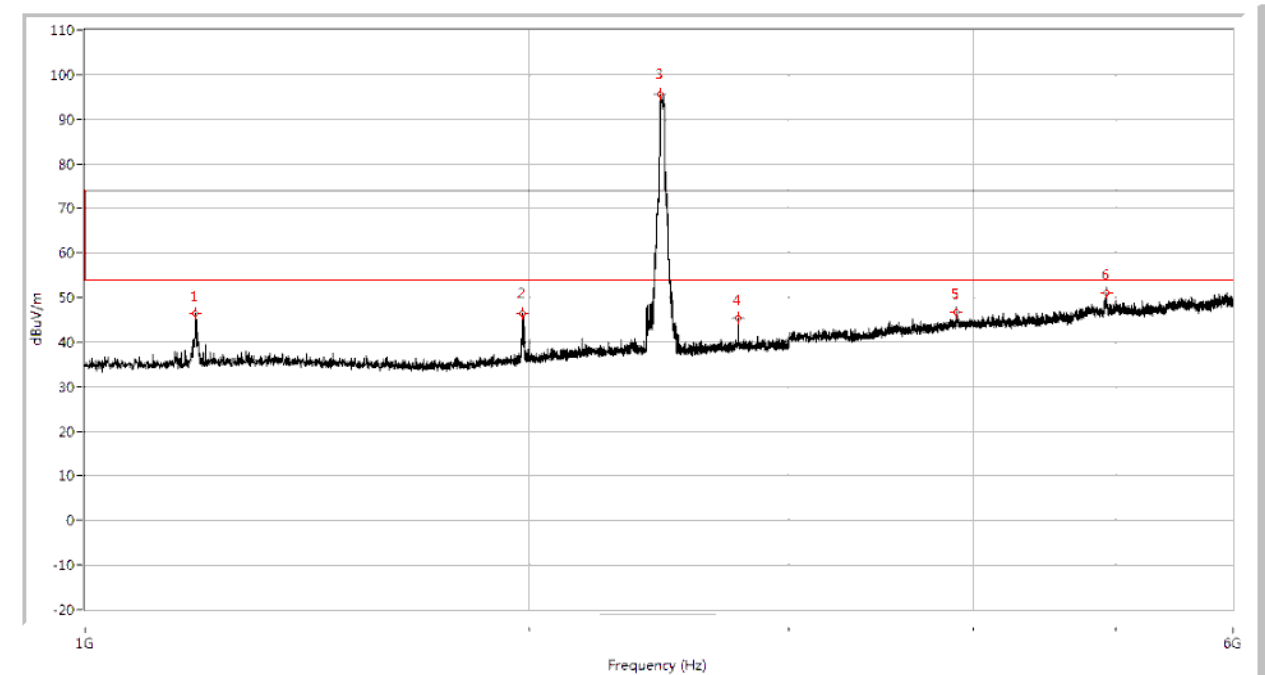
### A.8.60, 802.11n-20MHz HIGH CHANNEL 30MHz to 1GHz, ANT H



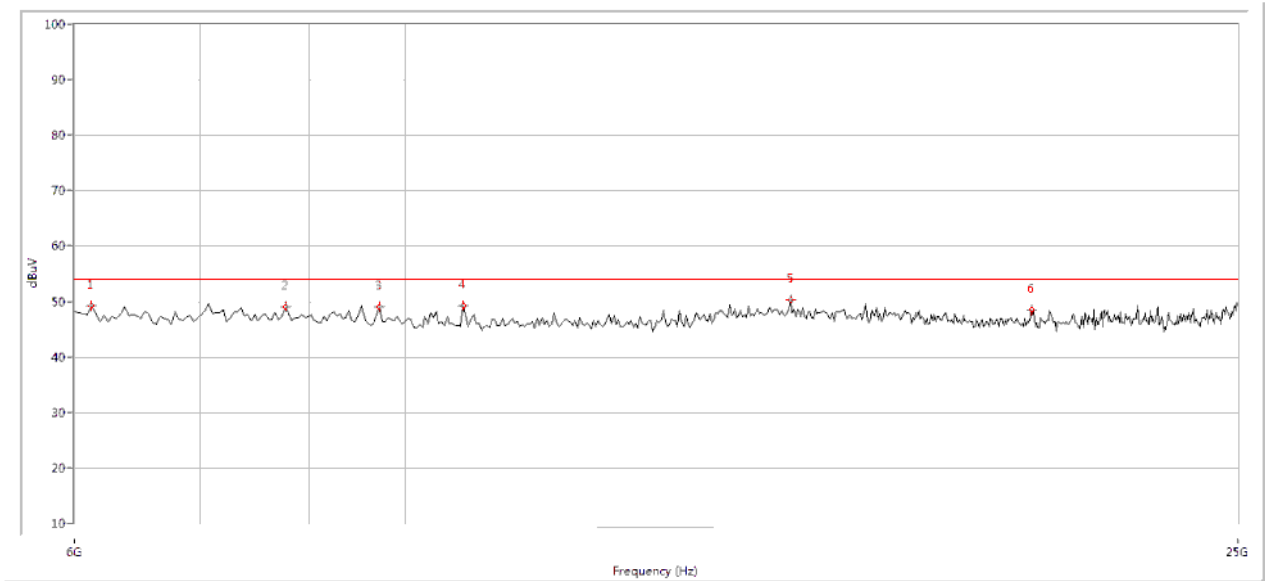
### A.8.61, 802.11n-20MHz HIGH CHANNEL 1GHz to 6GHz, ANT V



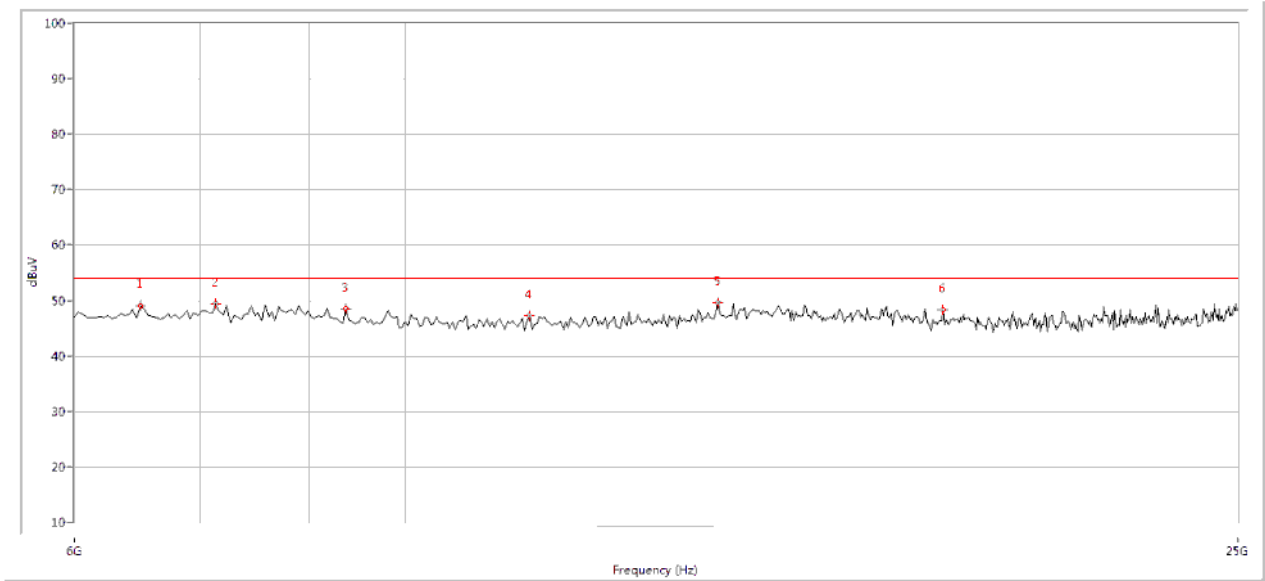
## A.8.62, 802.11n-20MHz HIGH CHANNEL 1GHz to 6GHz, ANT H



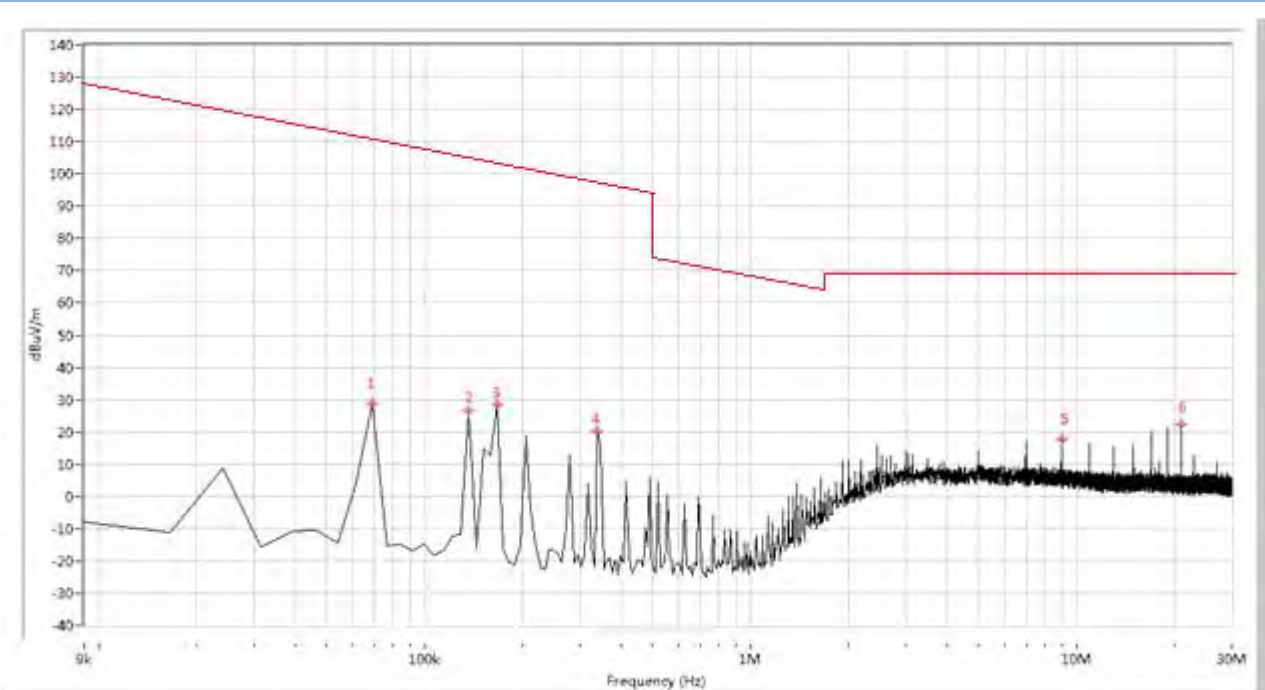
## A.8.63, 802.11n-20MHz HIGH CHANNEL 6GHz to 25GHz, ANT V



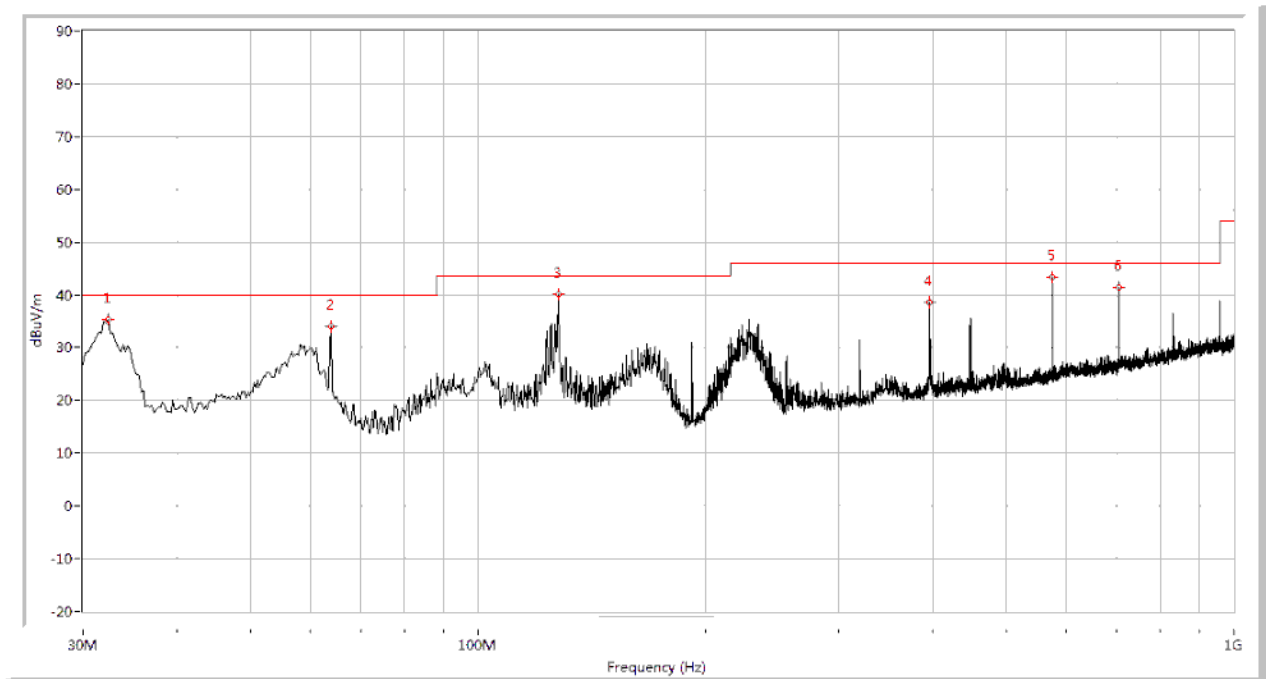
### A.8.64, 802.11n-20MHz HIGH CHANNEL 6GHz to 25GHz, ANT H



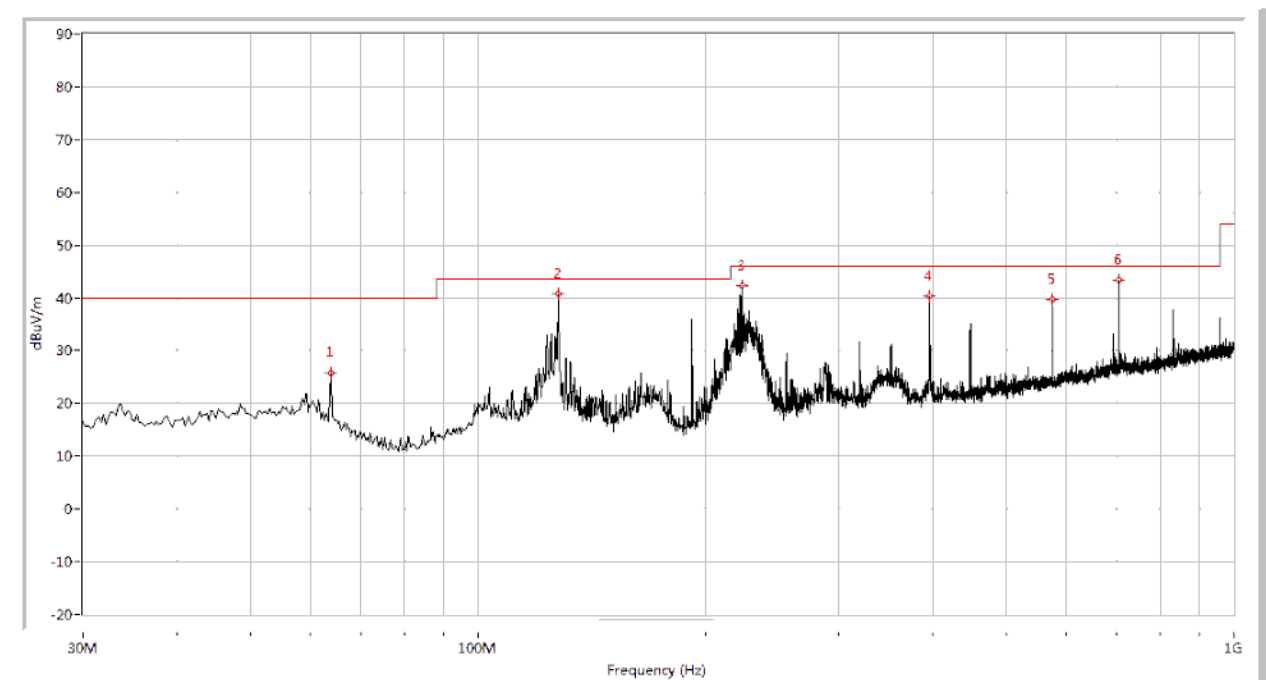
### A.8.65, 802.11n-40MHz LOW MODE Below 30MHz



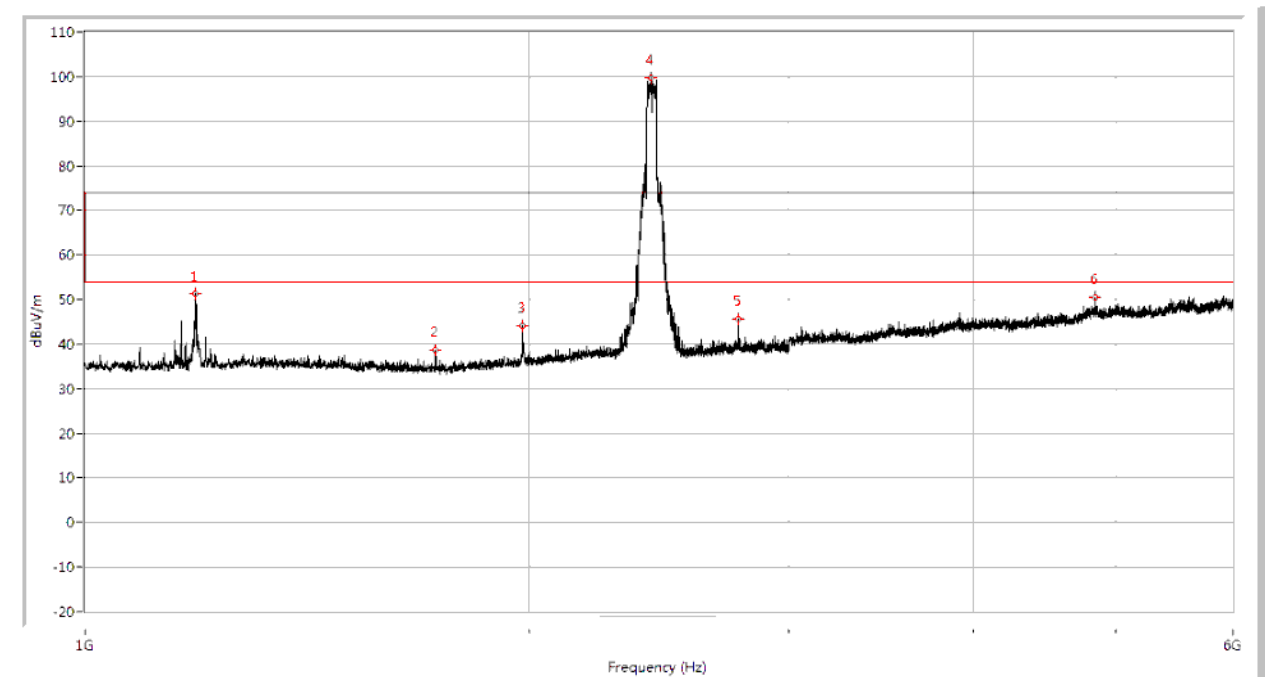
### A.8.66, 802.11N-40MHZ LOW MODE 30MHz to 1GHz, ANT V



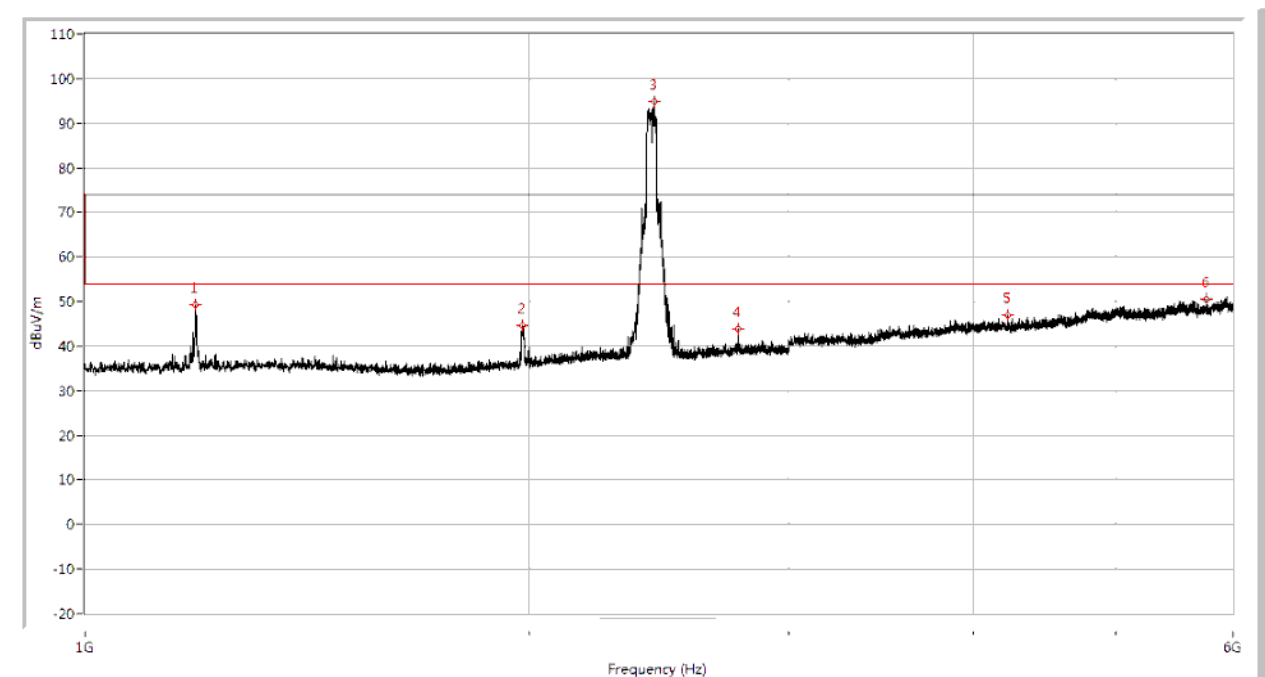
### A.8.67, 802.11N-40MHZ LOW MODE 30MHz to 1GHz, ANT H



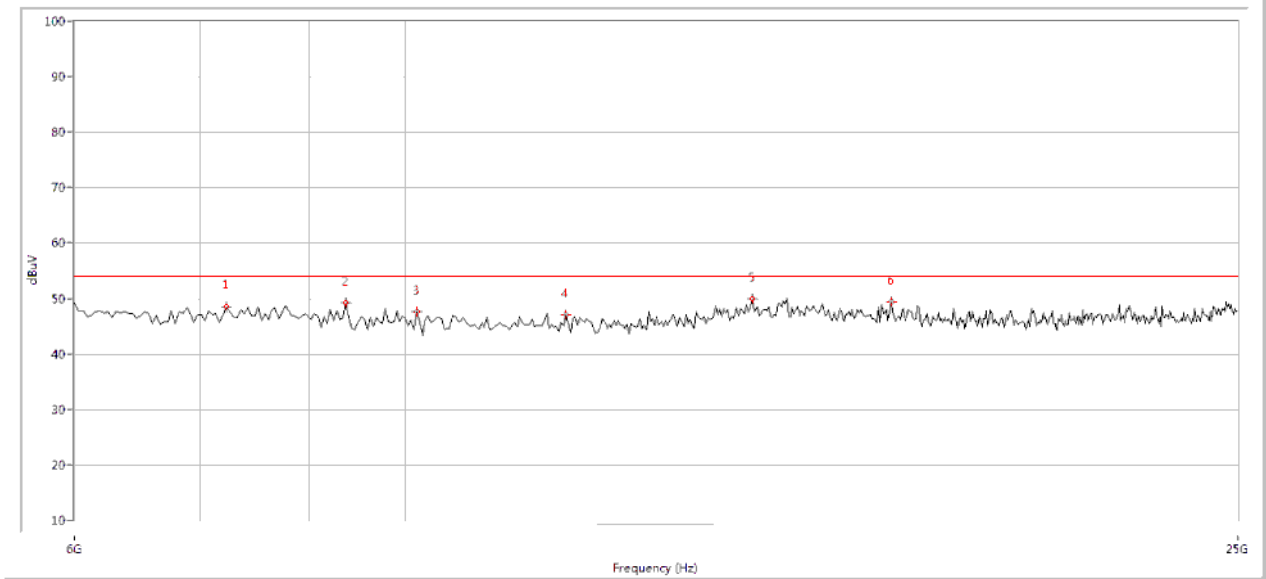
## A.8.68, 802.11N-40MHZ LOW MODE 1GHz to 6GHz, ANT V



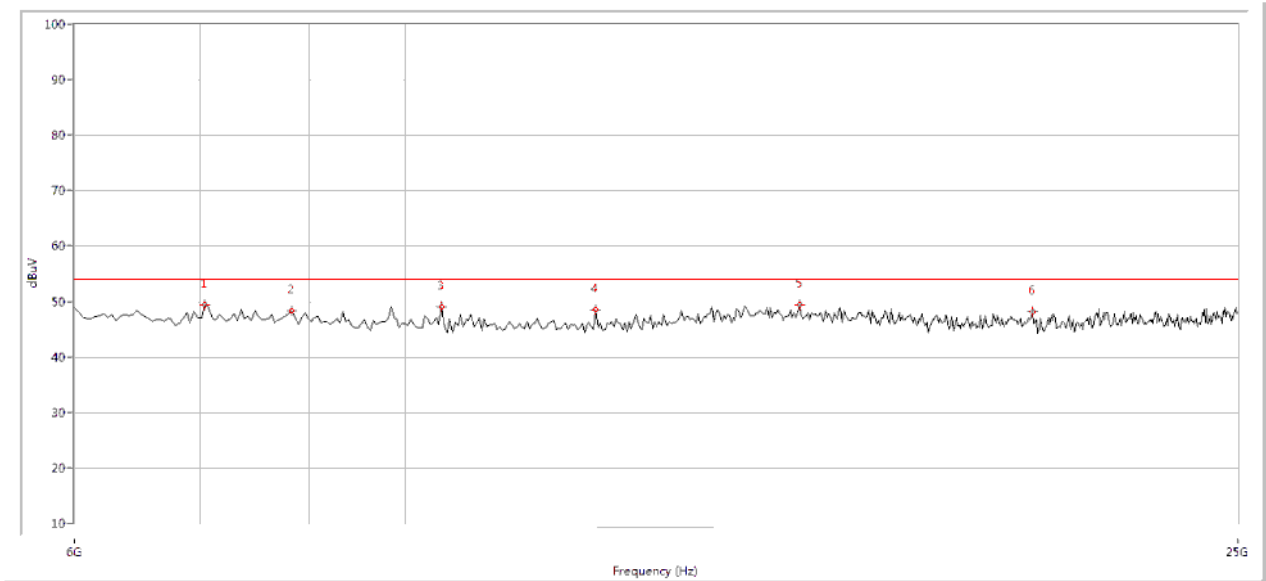
## A.8.69, 802.11N-40MHZ LOW MODE 1GHz to 6GHz, ANT H



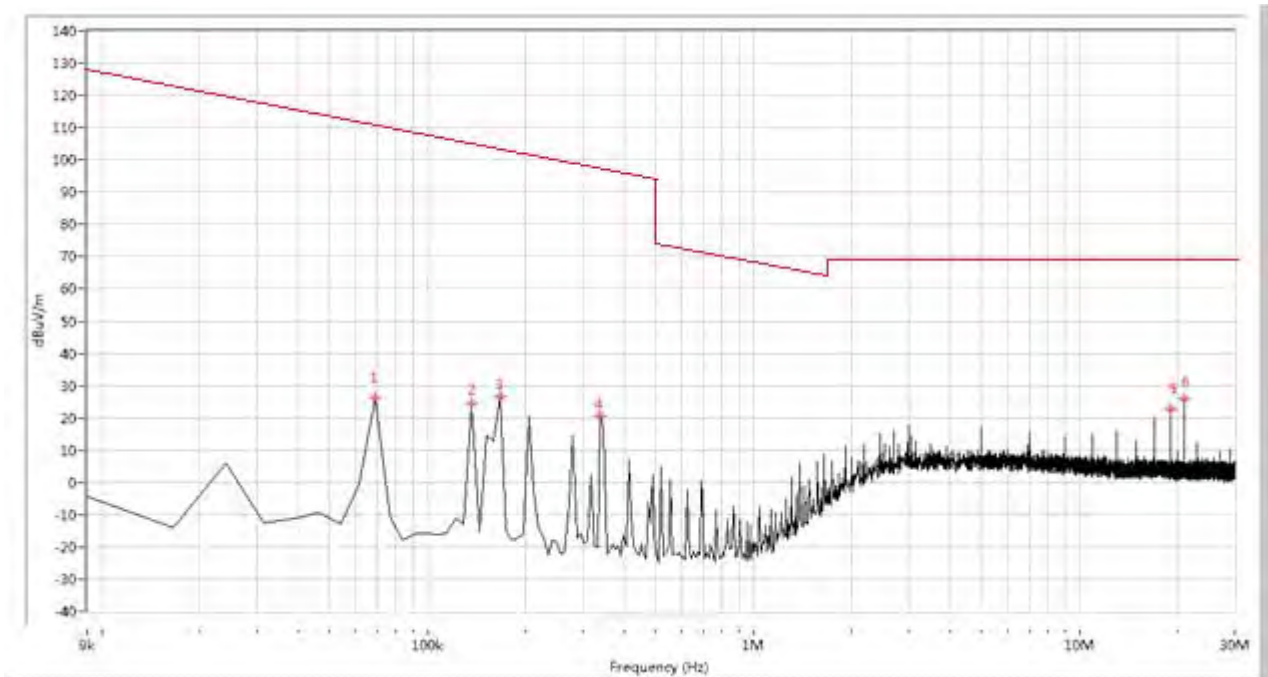
## A.8.70, 802.11N-40MHZ LOW MODE 6GHz to 25GHz, ANT V



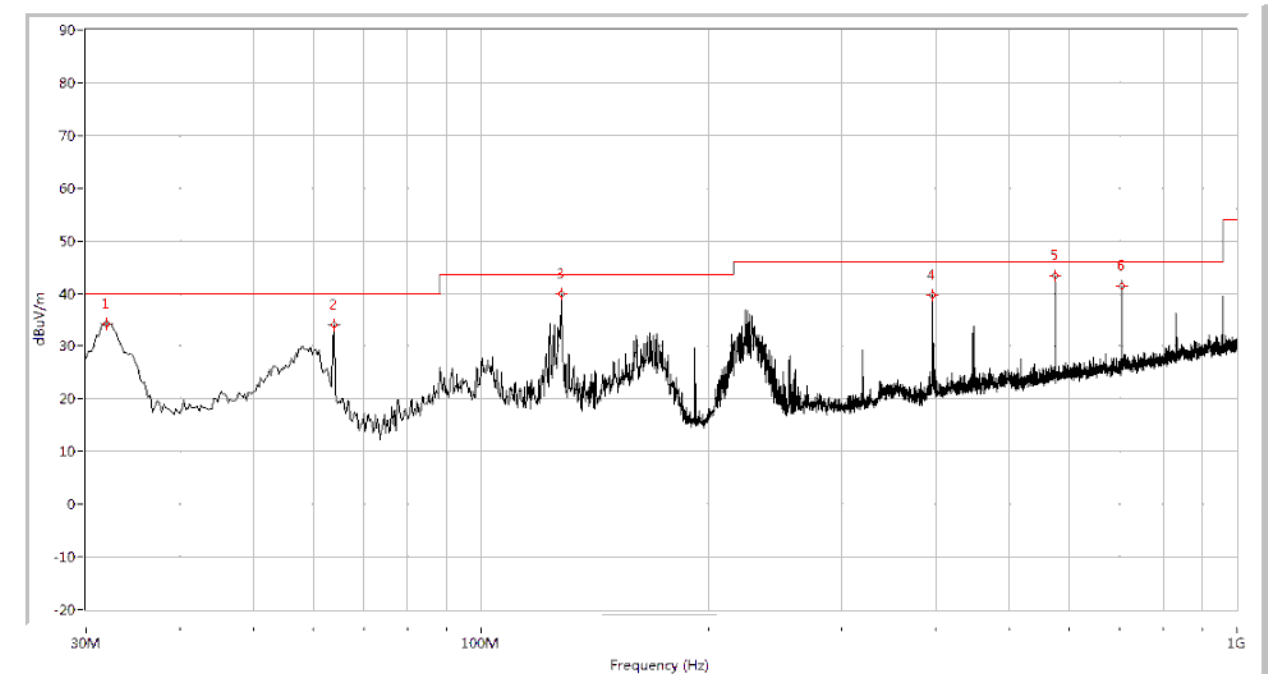
## A.8.71, 802.11N-40MHZ LOW MODE 6GHz to 25GHz, ANT H



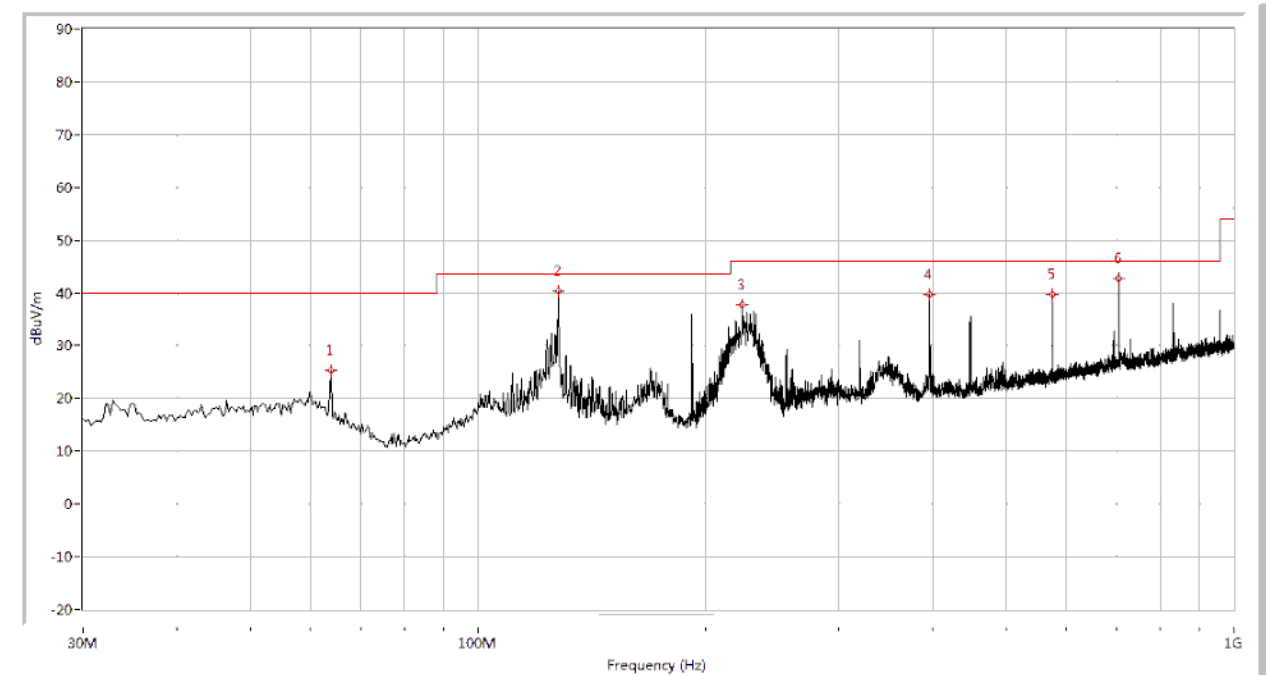
### A.8.72, 802.11n-40MHz MID MODE Below 30MHz



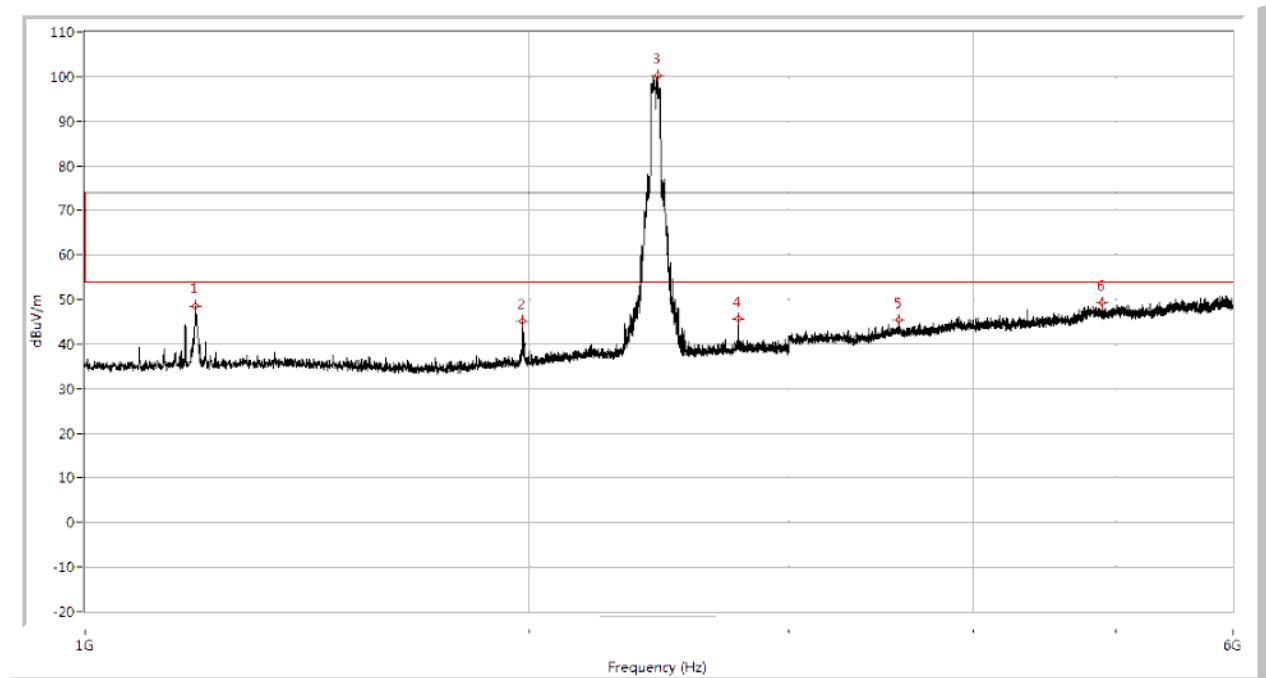
### A.8.73, 802.11N-40MHZ MID MODE 30MHz to 1GHz, ANT V



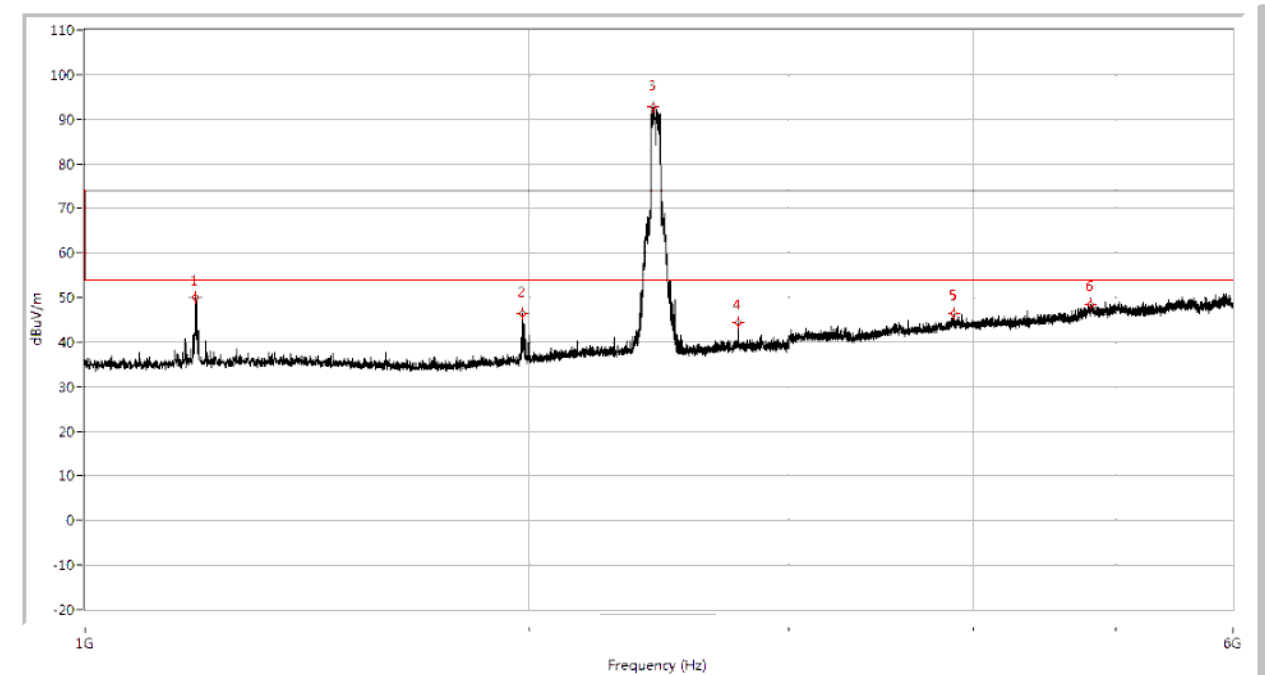
### A.8.74, 802.11N-40MHZ MID MODE 30MHz to 1GHz, ANT H



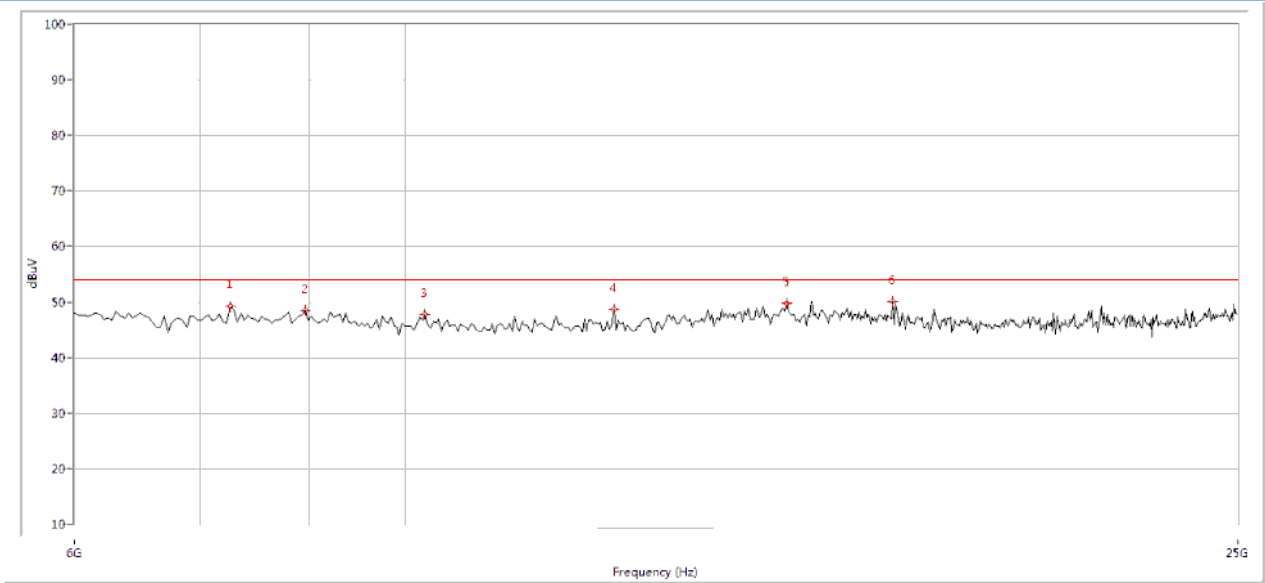
### A.8.75, 802.11N-40MHZ MID MODE 1GHz to 6GHz, ANT V



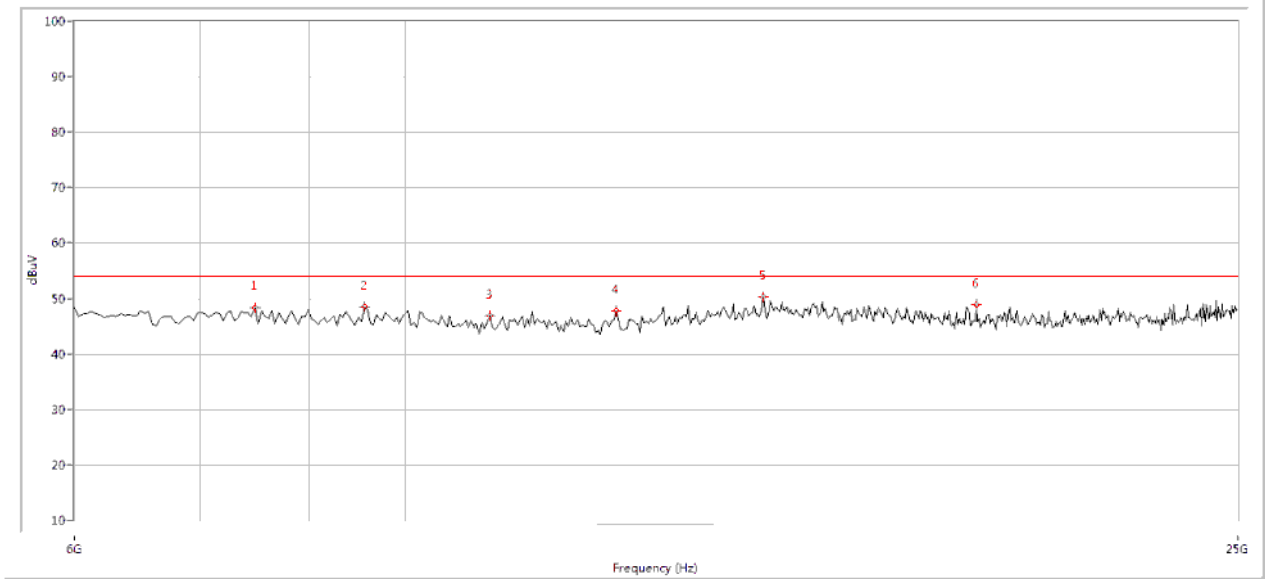
### A.8.76, 802.11N-40MHZ MID MODE 1GHz to 6GHz, ANT H



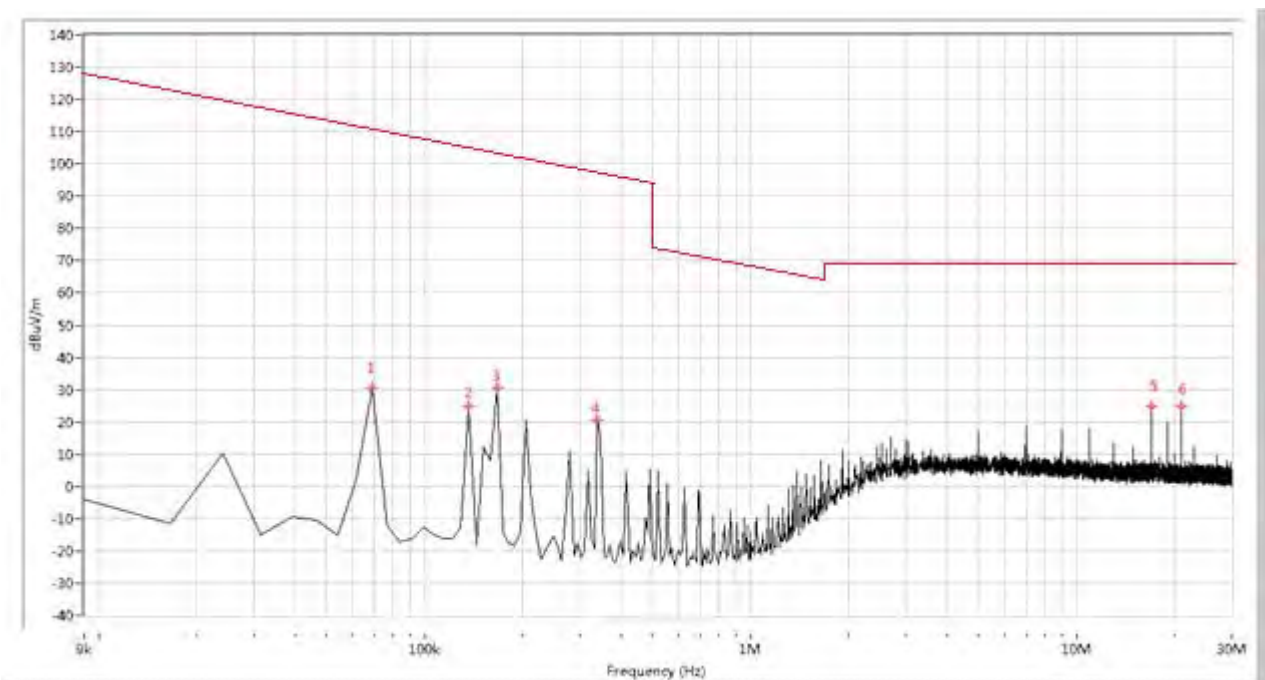
### A.8.77, 802.11N-40MHZ MID MODE 6GHz to 25GHz, ANT V



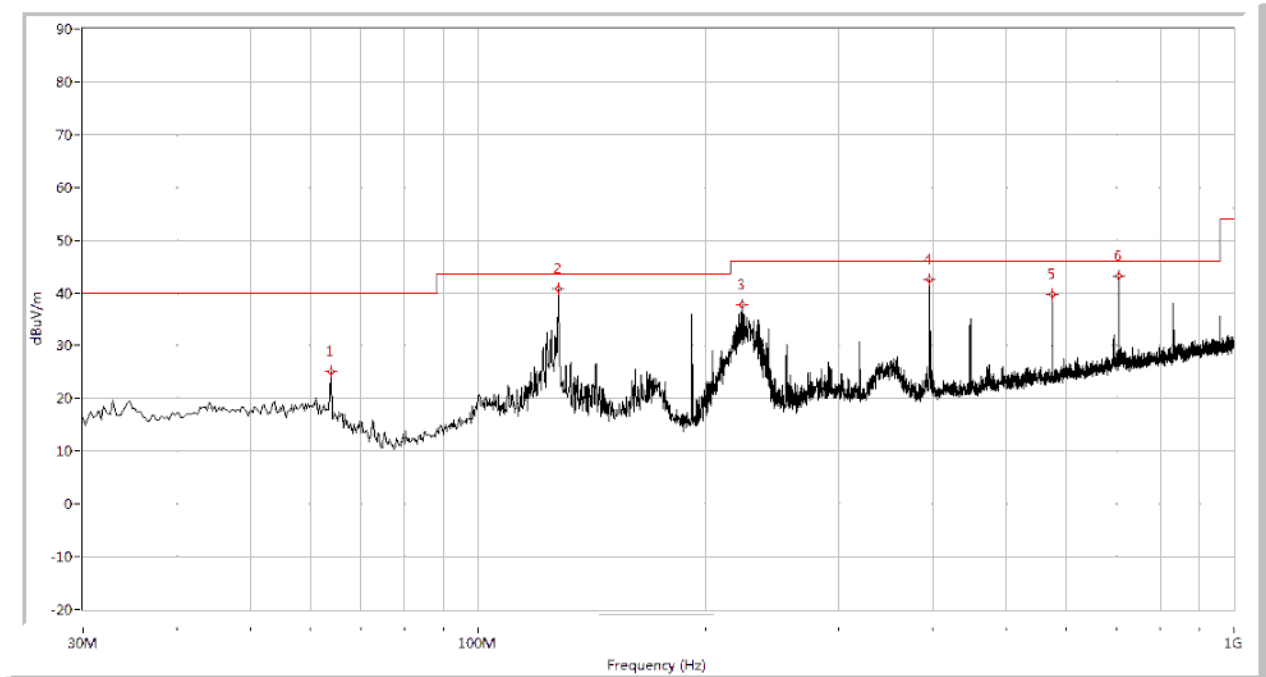
### A.8.78, 802.11N-40MHZ MID MODE 6GHz to 25GHz, ANT H



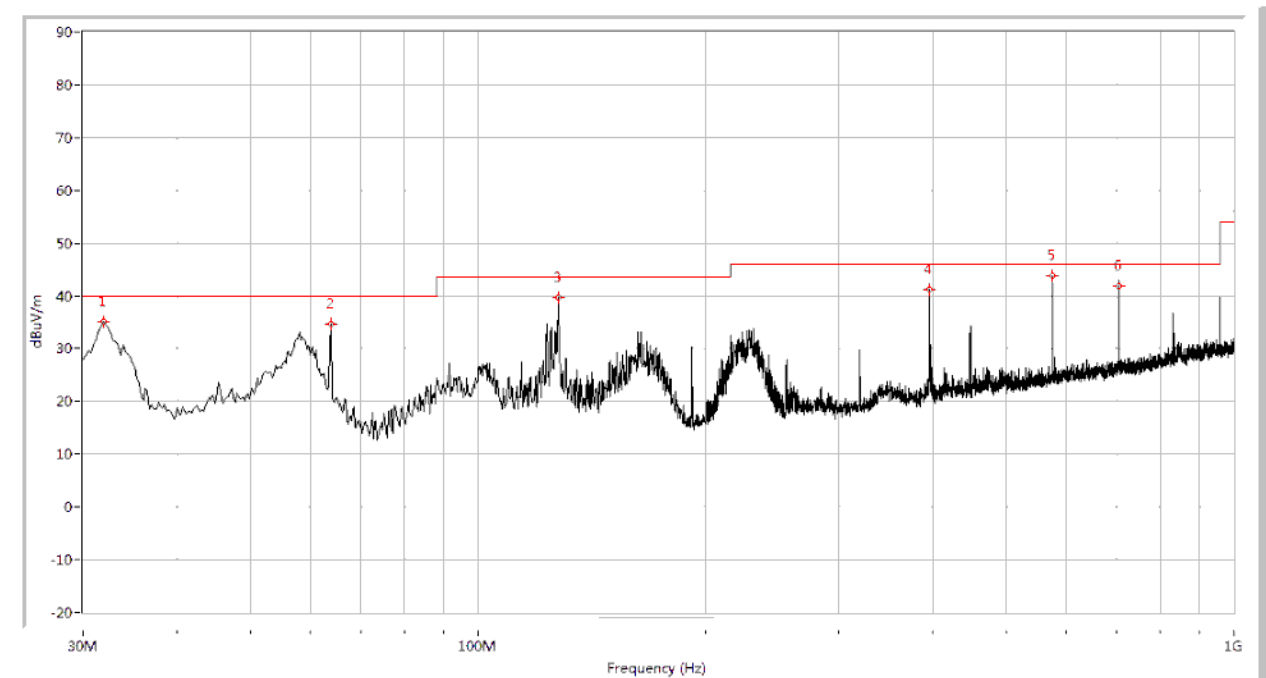
### A.8.79, 802.11n-40MHz HIGH MODE Below 30MHz



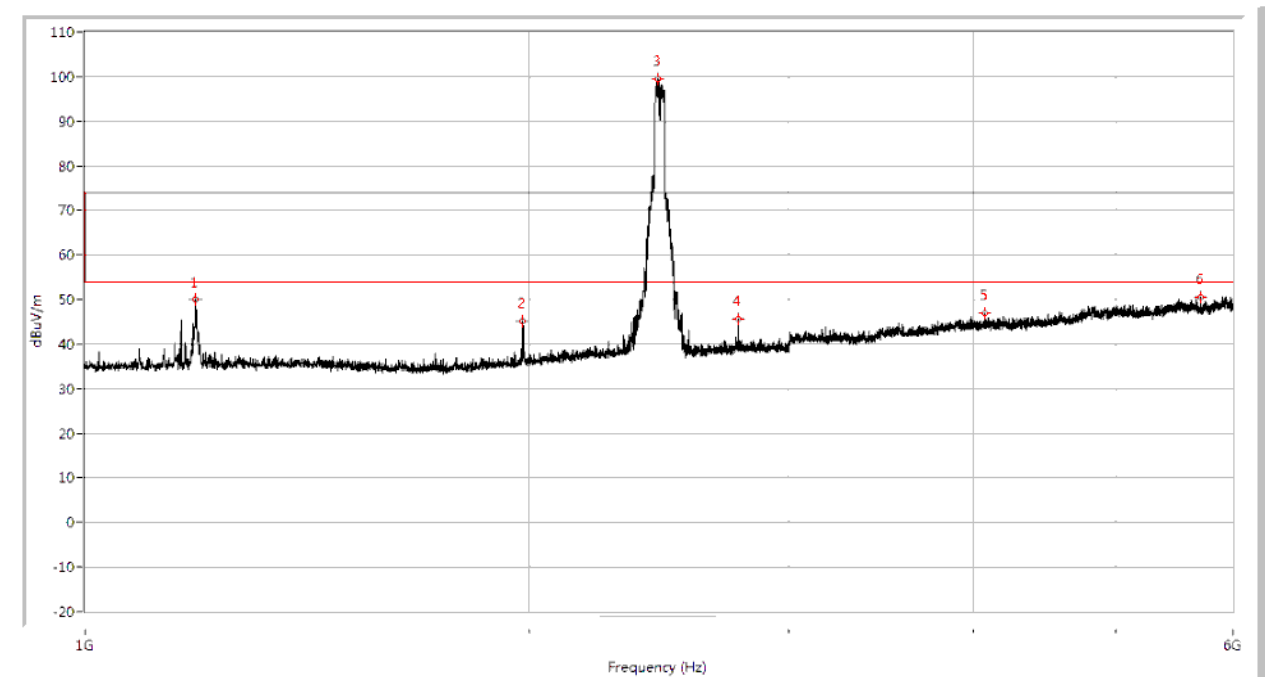
## A.8.80, 802.11N-40MHZ HIGH MODE 30MHz to 1GHz, ANT V



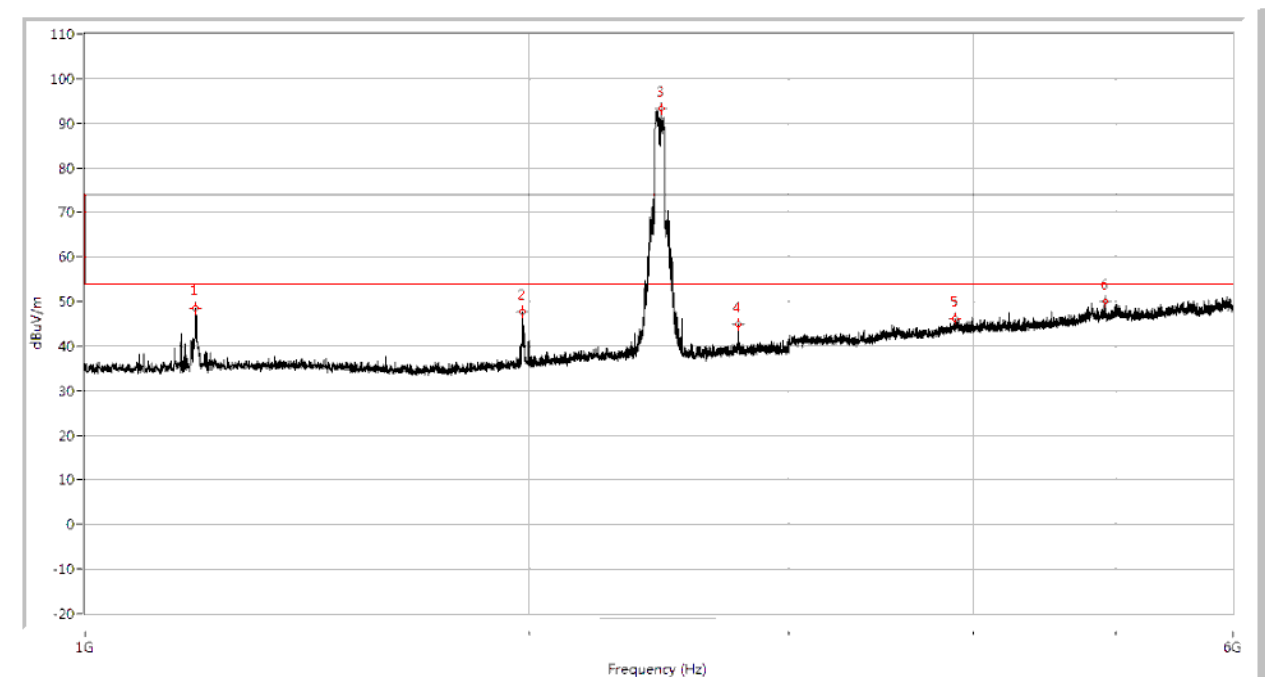
## A.8.81, 802.11N-40MHZ HIGH MODE 30MHz to 1GHz, ANT H



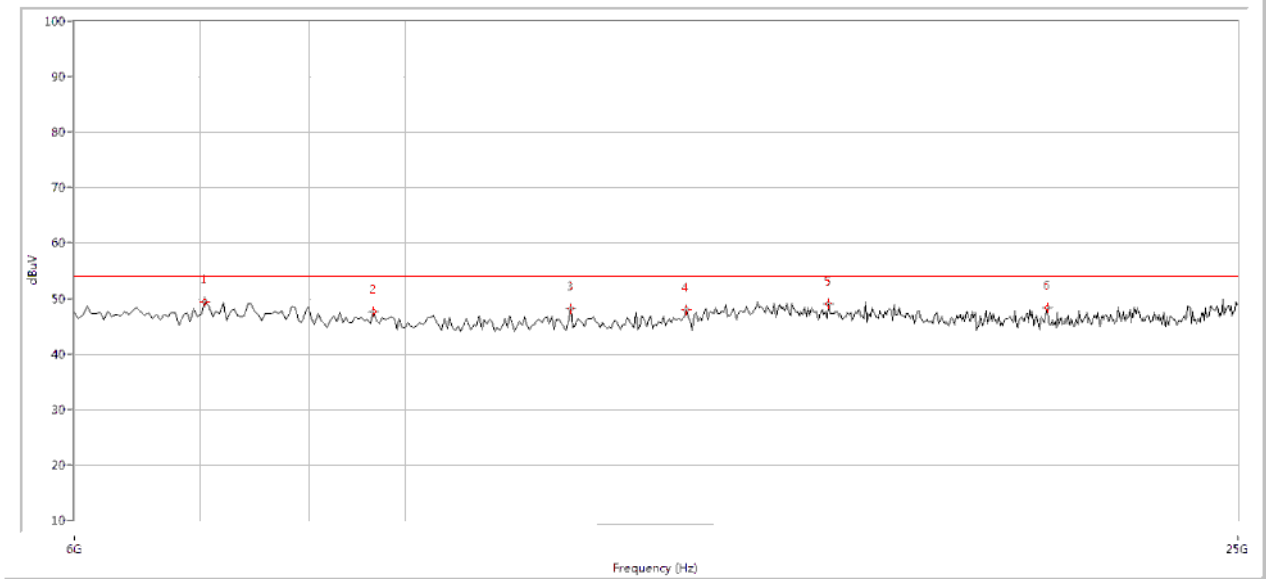
## A.8.82, 802.11N-40MHZ HIGH MODE 1GHz to 6GHz, ANT V



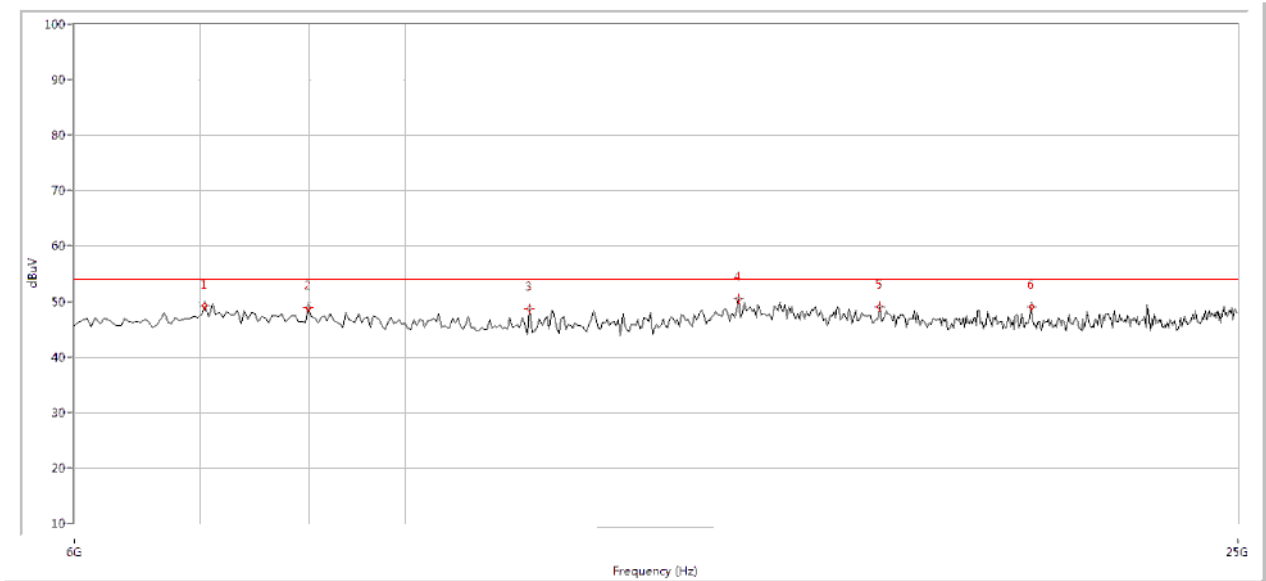
## A.8.83, 802.11N-40MHZ HIGH MODE 1GHz to 6GHz, ANT H



A.8.84, 802.11N-40MHZ HIGH MODE 6GHz to 25GHz, ANT V



A.8.85, 802.11N-40MHZ HIGH MODE 6GHz to 25GHz, ANT H



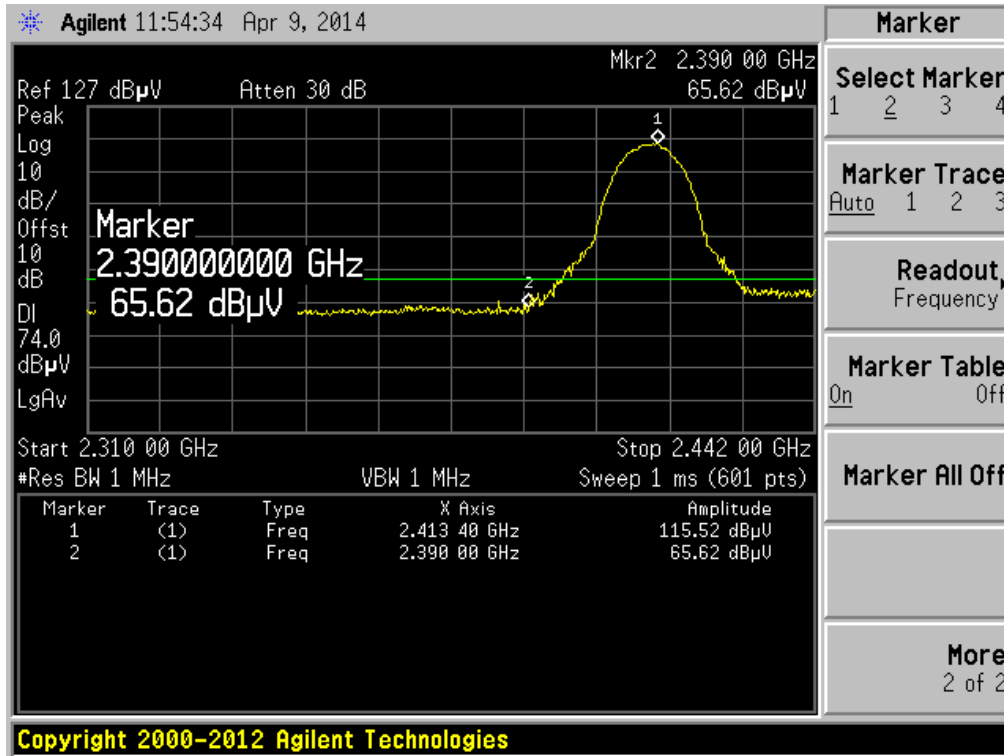
## A.6 Band Edge

### Test Data

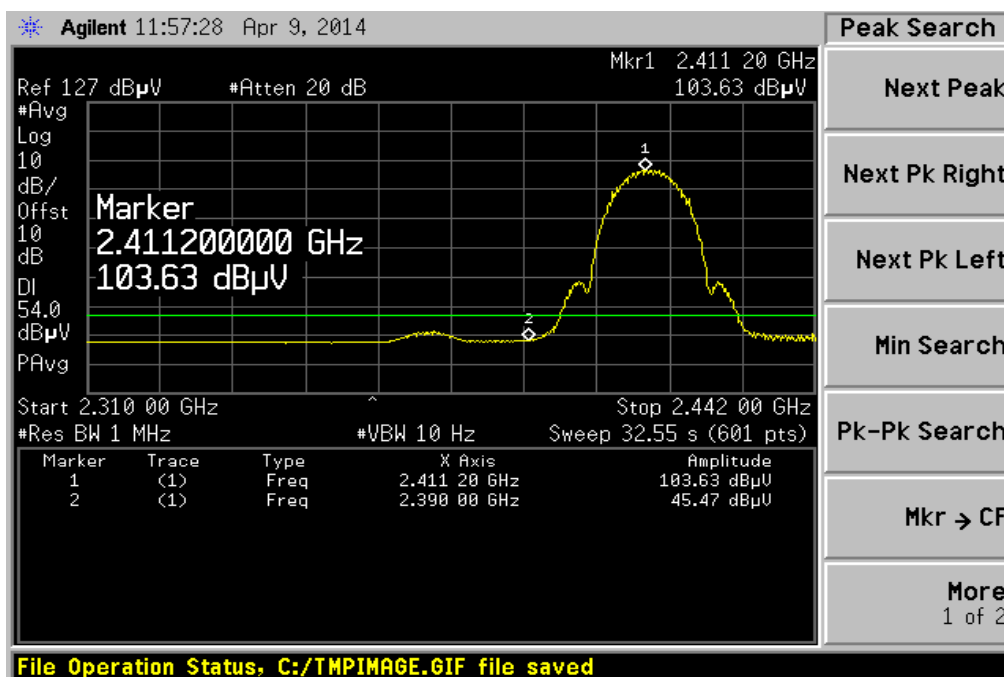
The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

### Test Plots

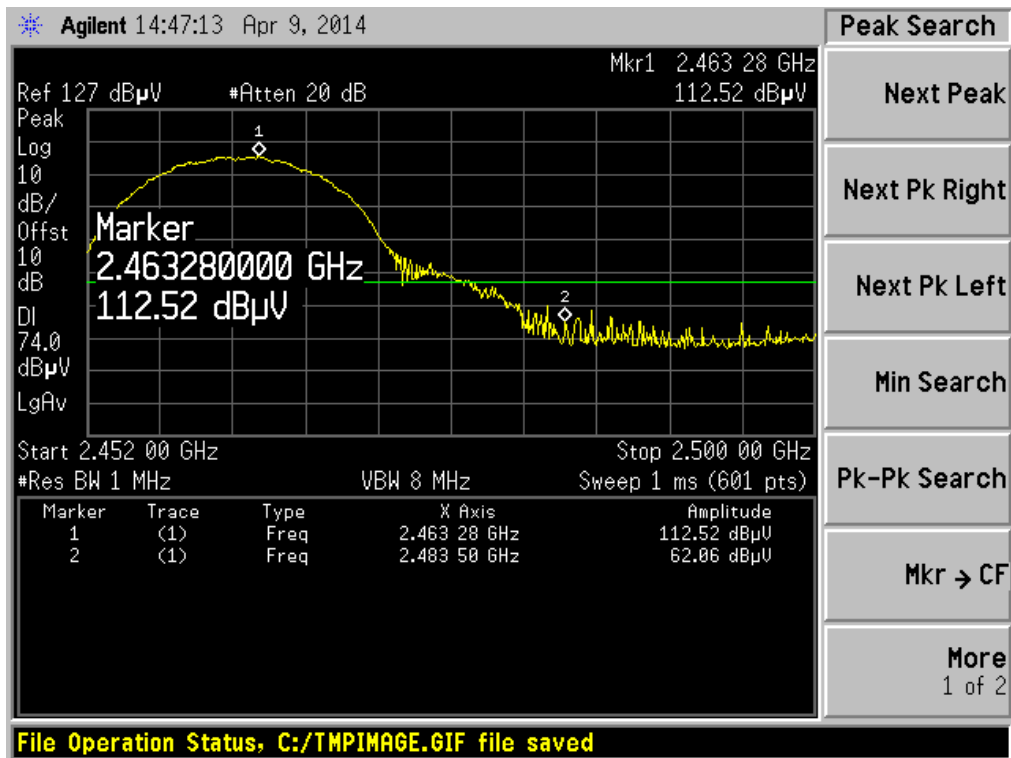
#### A.6.1, 802.11b LOW CHANNEL , PEAK



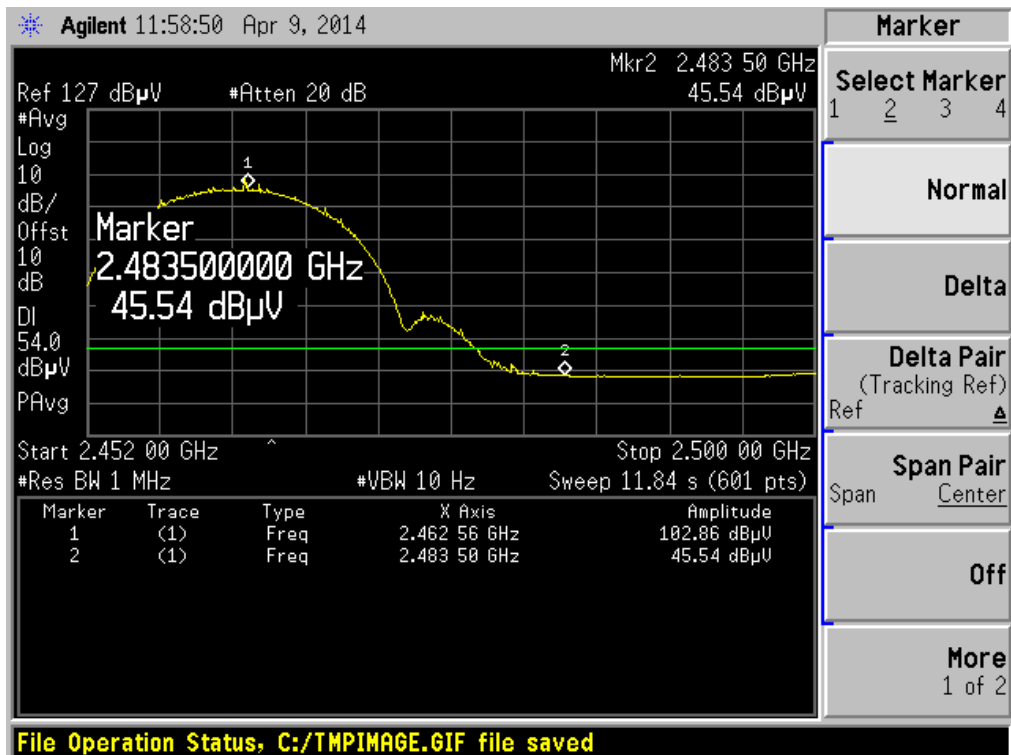
#### A.6.2, 802.11b LOW CHANNEL , AVERAGE



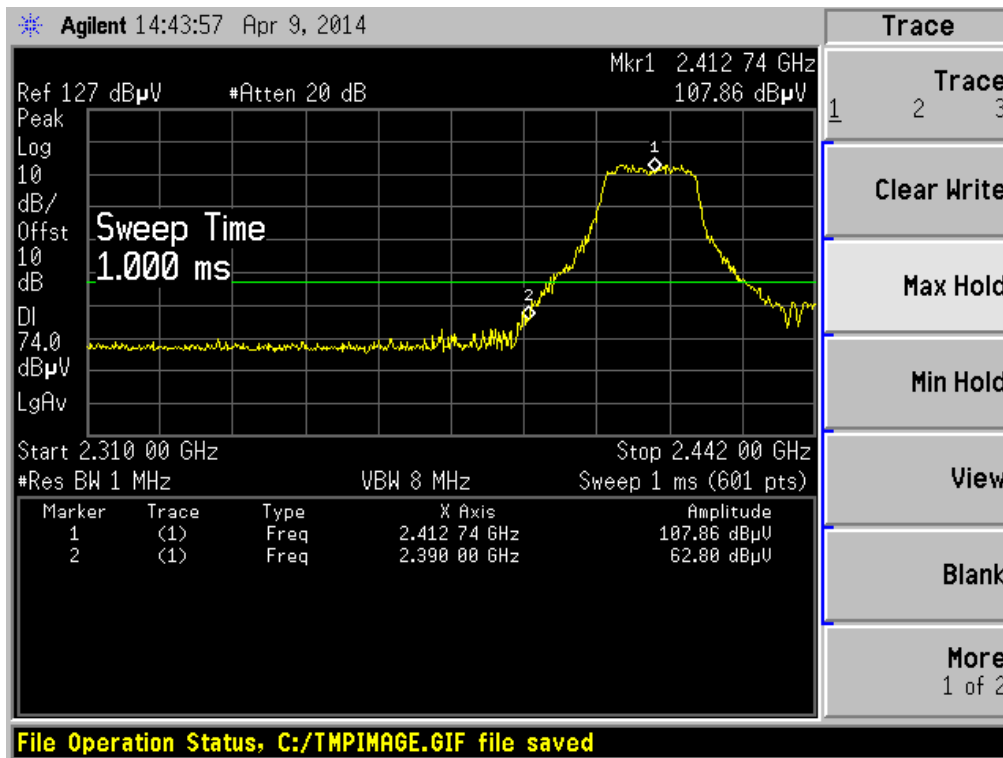
### A.6.3, 802.11b HIGH CHANNEL , PEAK



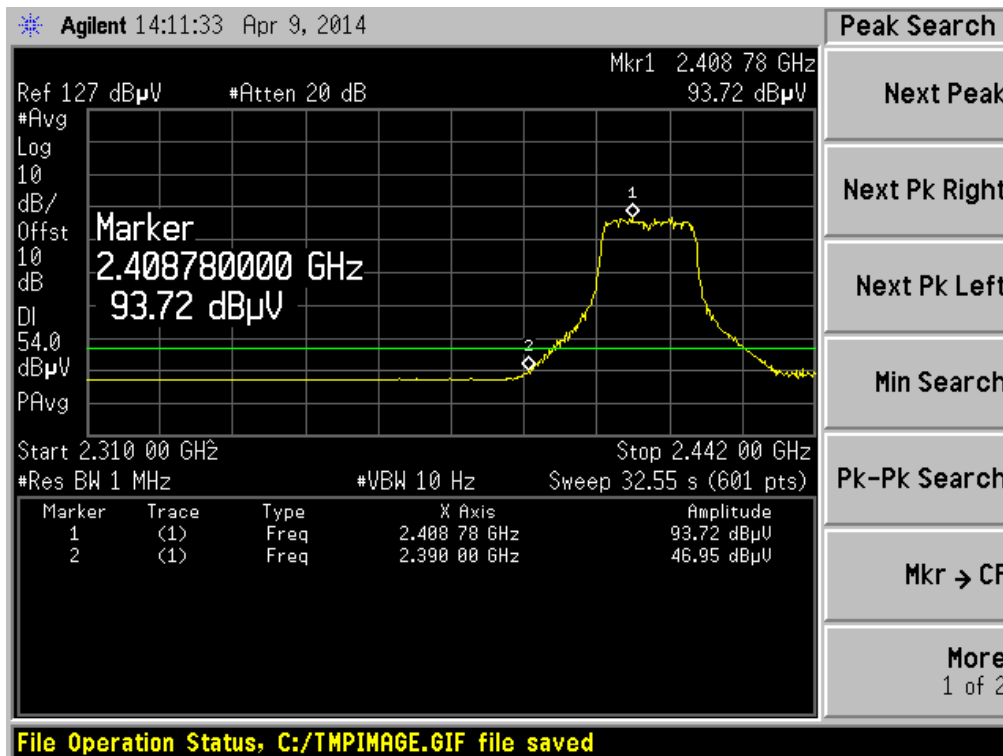
### A.6.4, 802.11b HIGH CHANNEL , AVERAGE



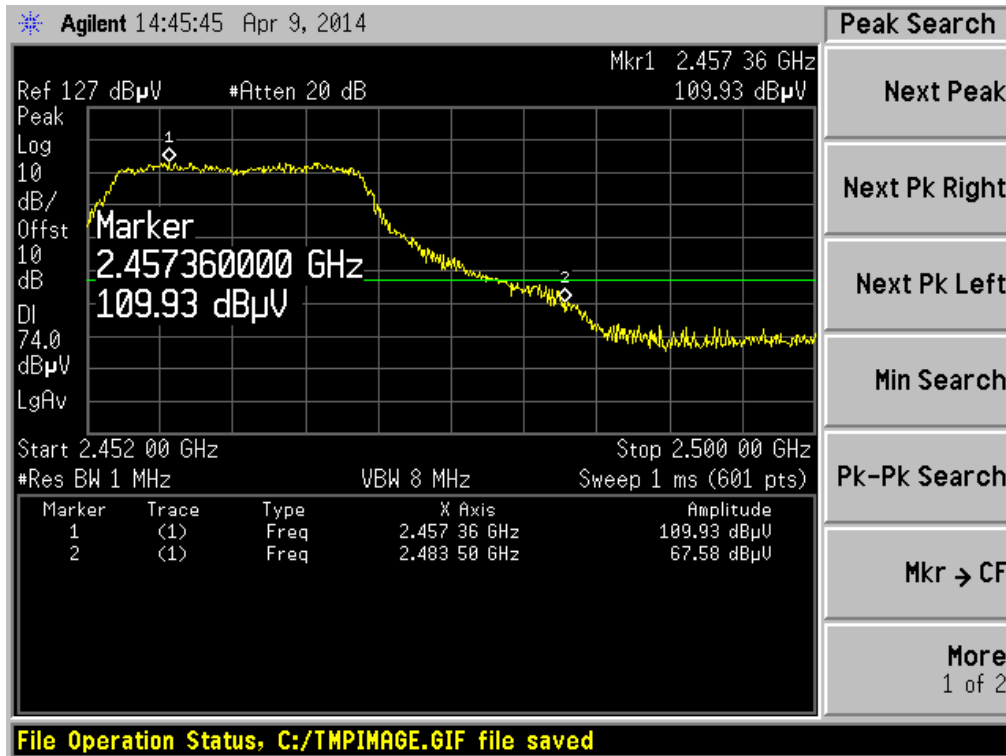
### A.6.5, 802.11g LOW CHANNEL , PEAK



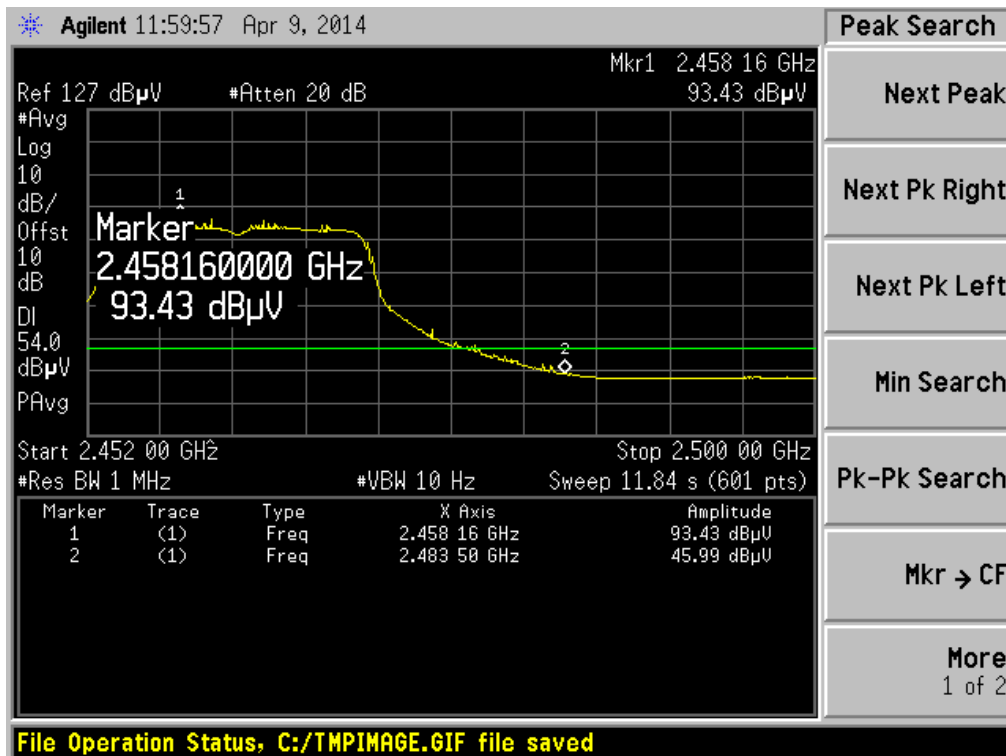
### A.6.6, 802.11g LOW CHANNEL , AVERAGE



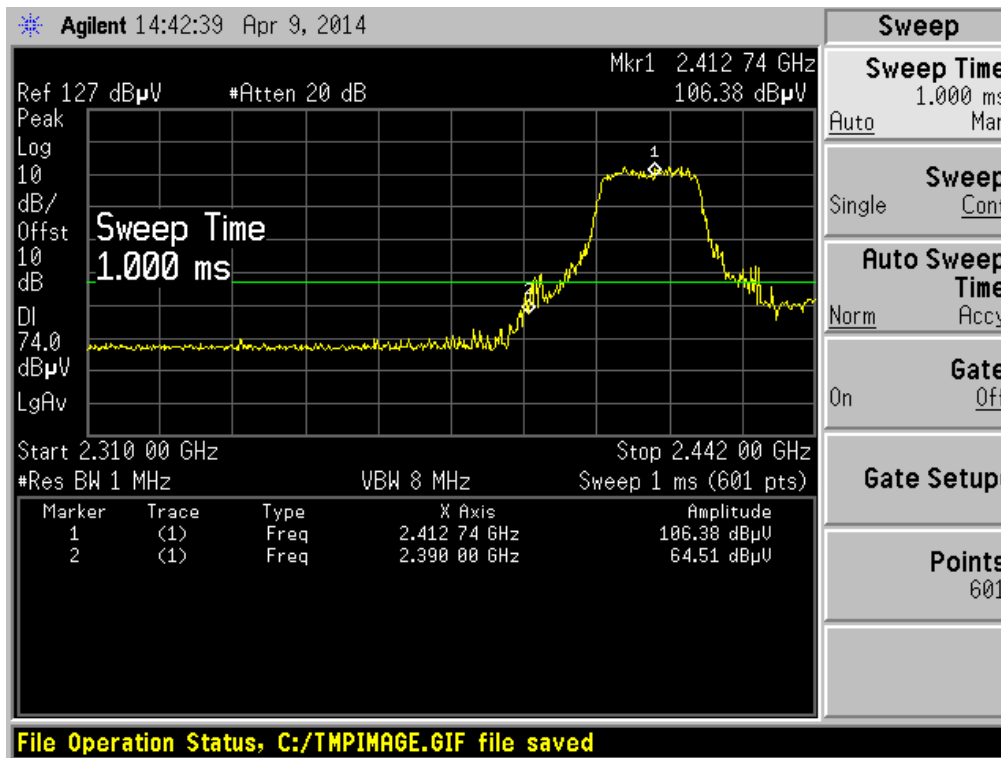
### A.6.7, 802.11g HIGH CHANNEL , PEAK



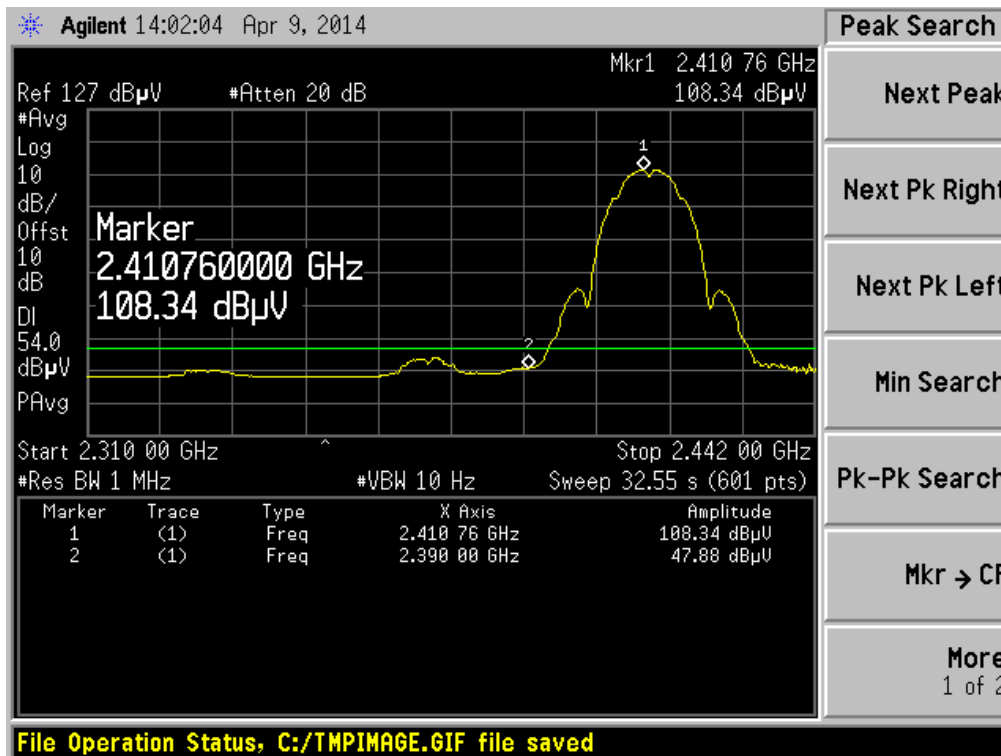
### A.6.8, 802.11g HIGH CHANNEL , AVERAGE



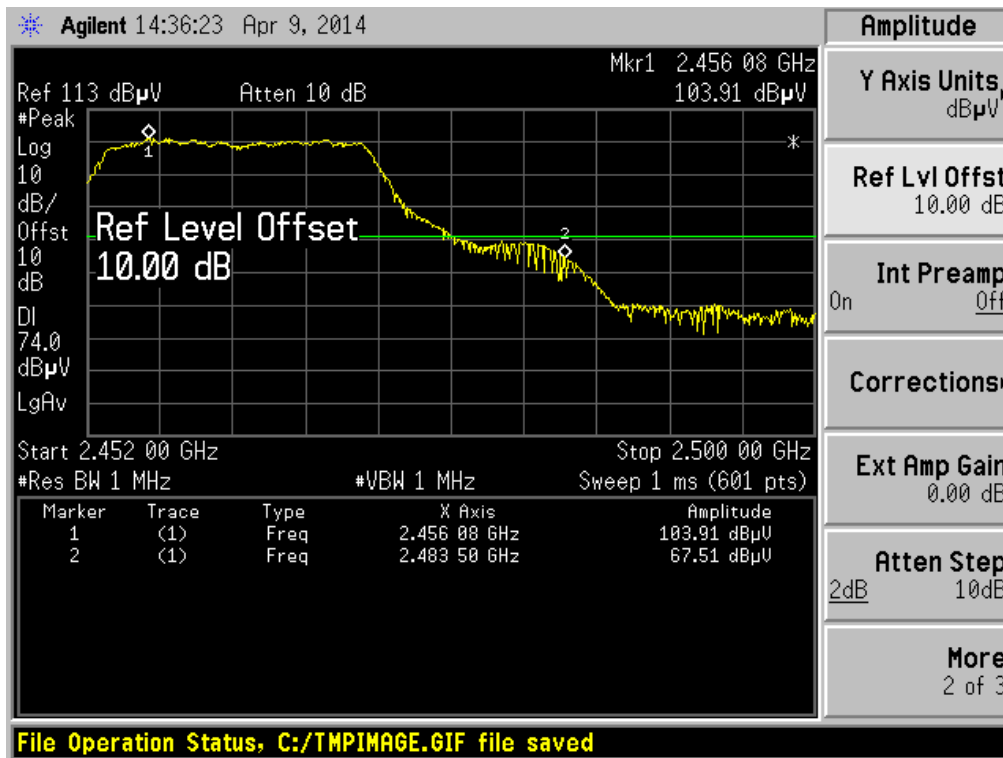
### A.6.9, 802.11n-20MHz LOW CHANNEL ,PEAK



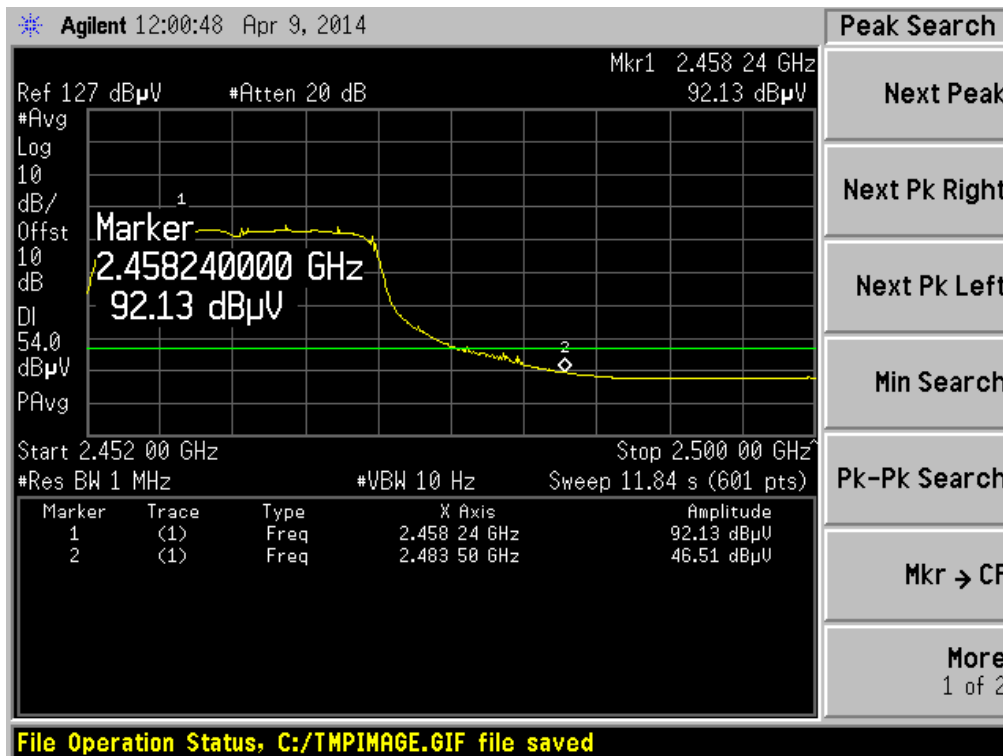
### A.6.10, 802.11n-20MHz LOW CHANNEL , AVERAGE



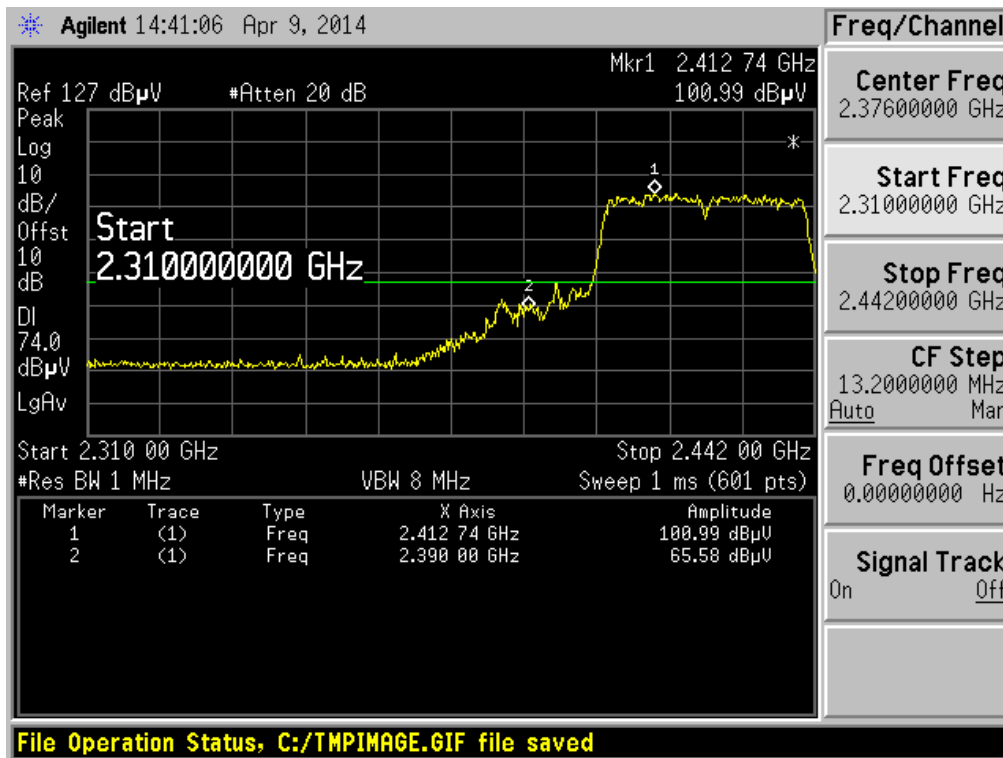
### A.6.11, 802.11n-20MHz HIGH CHANNEL , PEAK



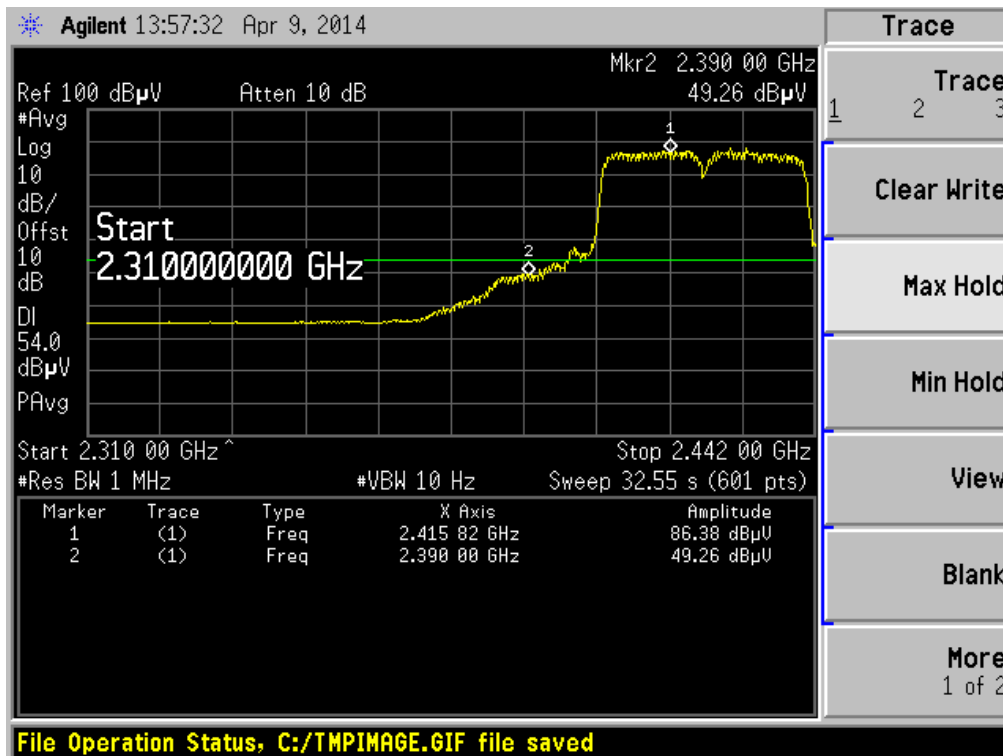
### A.6.12, 802.11n-20MHz HIGH CHANNEL , AVERAGE



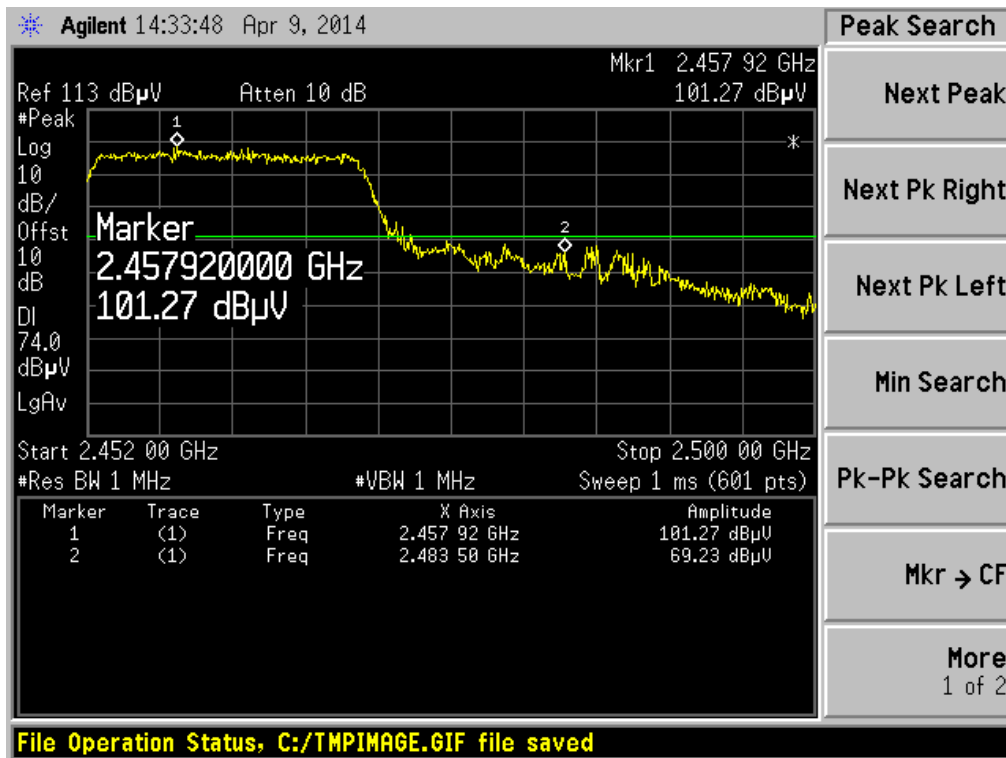
## A.6.13, 802.11n-40MHz LOW CHANNEL , PEAK



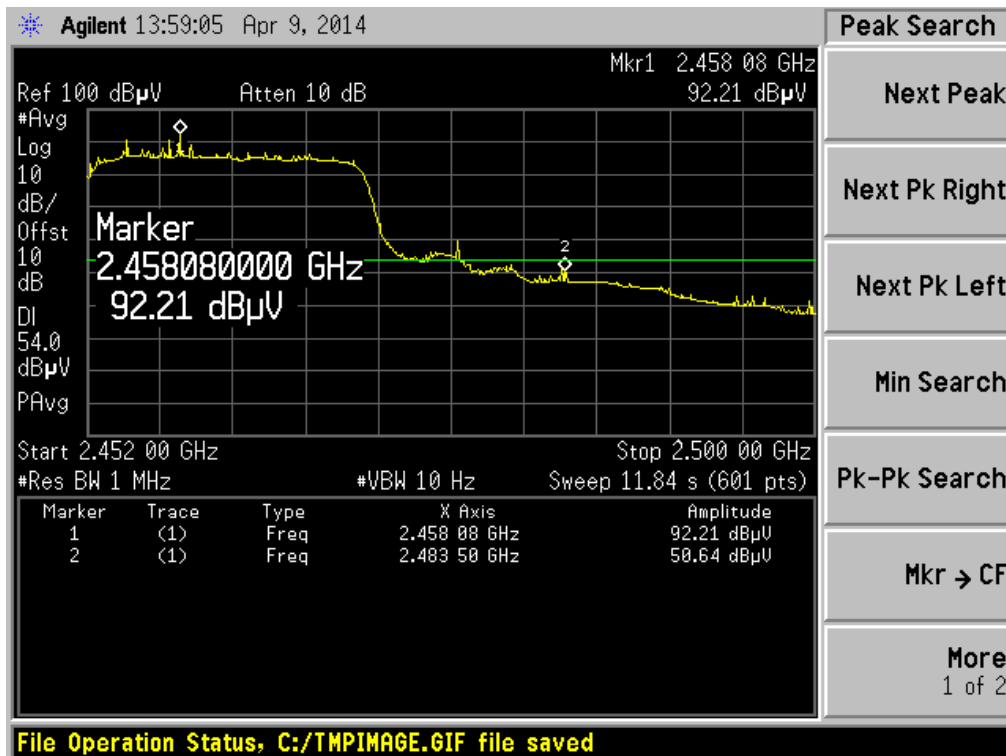
## A.6.14, 802.11n-40MHz LOW CHANNEL , AVERAGE



### A.6.15, 802.11n-40MHz HIGH CHANNEL , PEAK



### A.6.16, 802.11n-40MHz HIGH CHANNEL , AVERAGE



## A.7 Power Spectral Density (PSD)

### Test Data

802.11b Mode:

| Channel | Frequency (MHz) | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---------|-----------------|-----------------------------------|------------------|
| Low     | 2412            | -1.91                             | 8                |
| Middle  | 2437            | -13.77                            | 8                |
| High    | 2462            | -5.17                             | 8                |

802.11g Mode:

| Channel | Frequency (MHz) | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---------|-----------------|-----------------------------------|------------------|
| Low     | 2412            | -17.82                            | 8                |
| Middle  | 2437            | -18.80                            | 8                |
| High    | 2462            | -18.68                            | 8                |

802.11n-20MHz Mode:

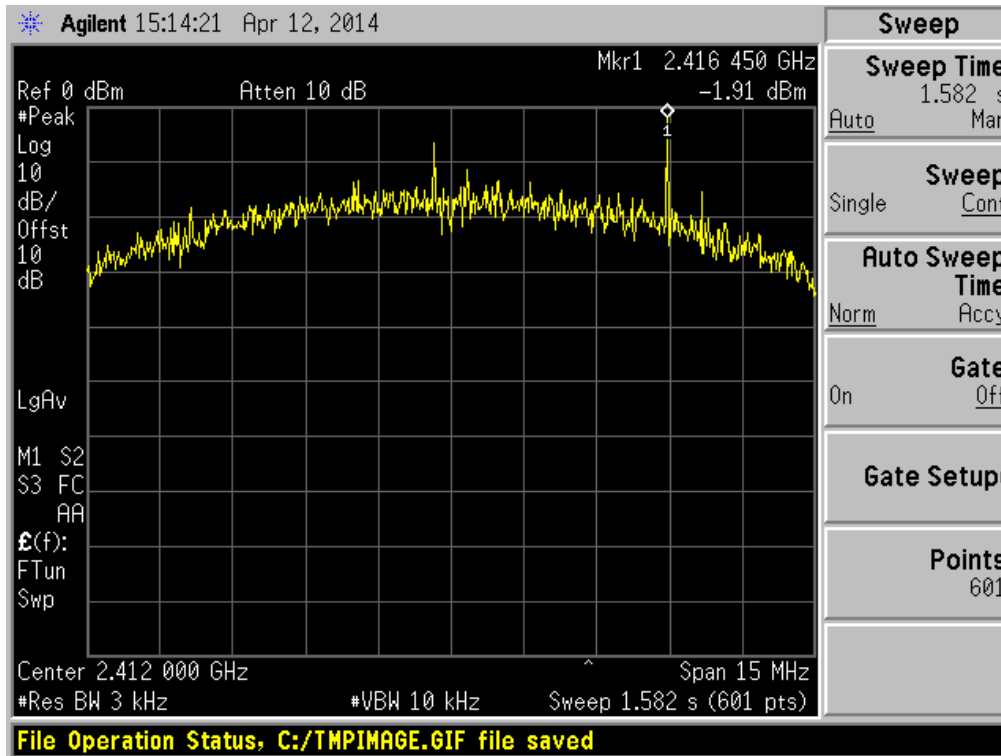
| Channel | Frequency (MHz) | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---------|-----------------|-----------------------------------|------------------|
| Low     | 2412            | -18.30                            | 8                |
| Middle  | 2437            | -19.17                            | 8                |
| High    | 2462            | -19.96                            | 8                |

802.11n-40MHz Mode:

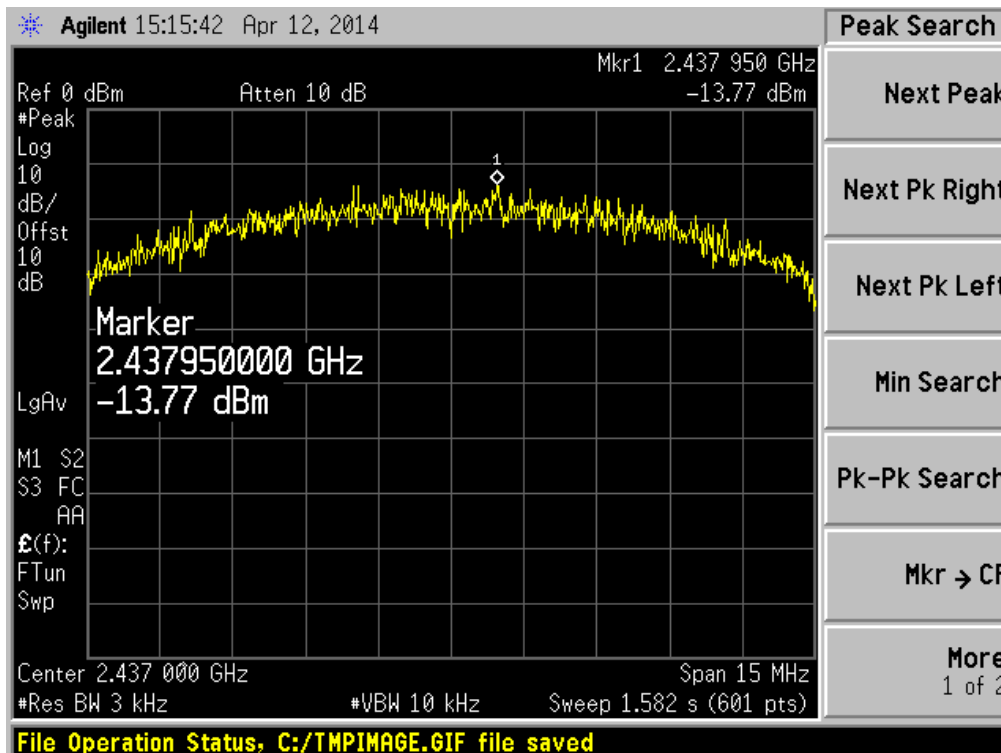
| Channel | Frequency (MHz) | Spectral power density (dBm/3kHz) | Limit (dBm/3kHz) |
|---------|-----------------|-----------------------------------|------------------|
| Low     | 2422            | -18.58                            | 8                |
| Middle  | 2437            | -20.52                            | 8                |
| High    | 2452            | -21.65                            | 8                |

## Test plots

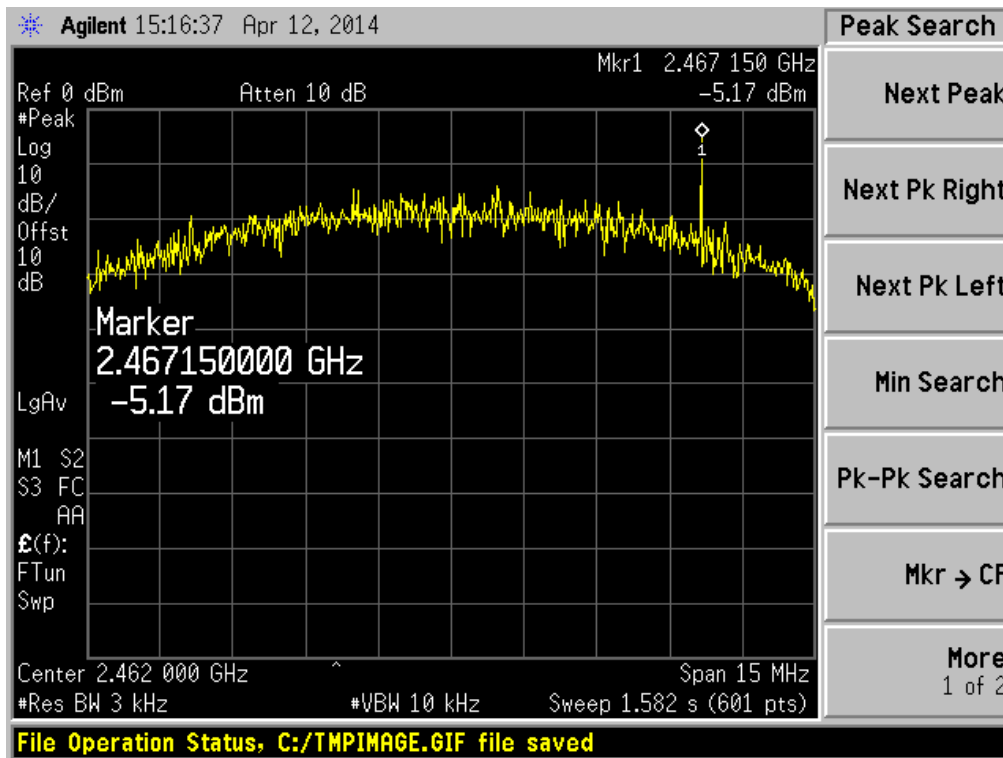
### A.1.1, 802.11b LOW CHANNEL



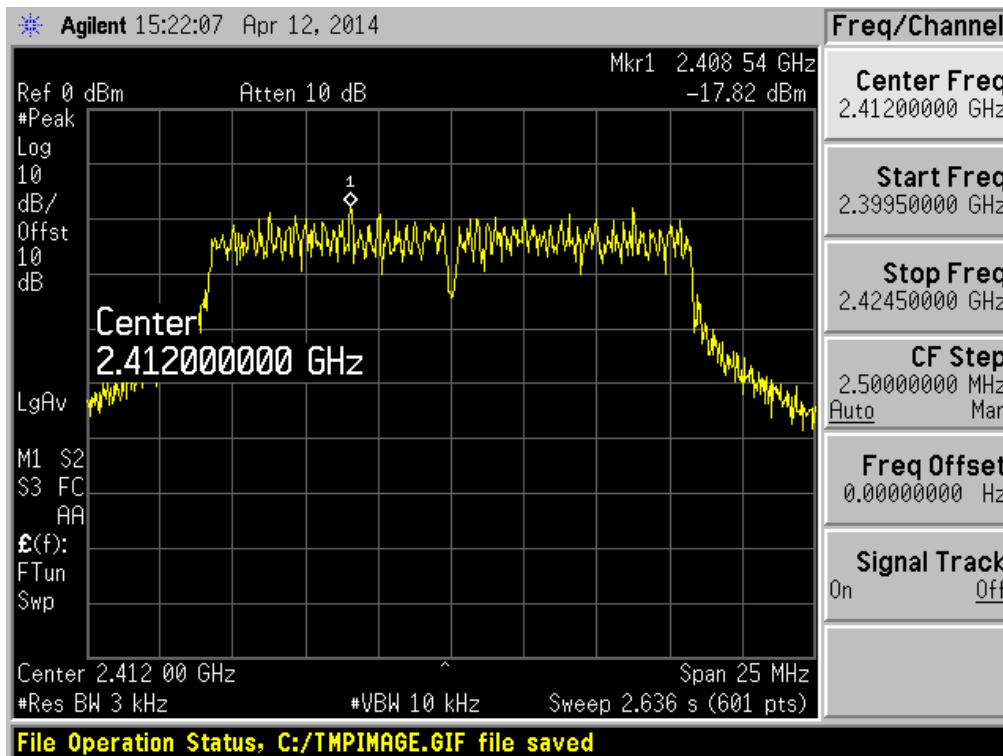
### A.1.2, 802.11b MID CHANAEL



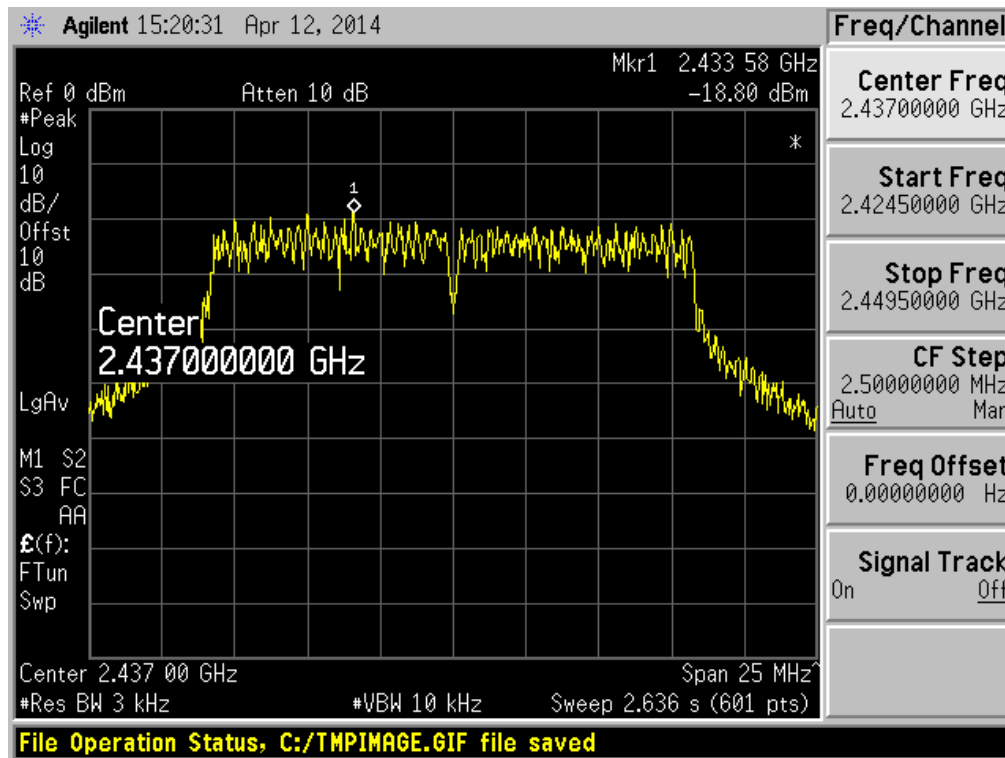
### A.1.3, 802.11b HIGH CHANNEL



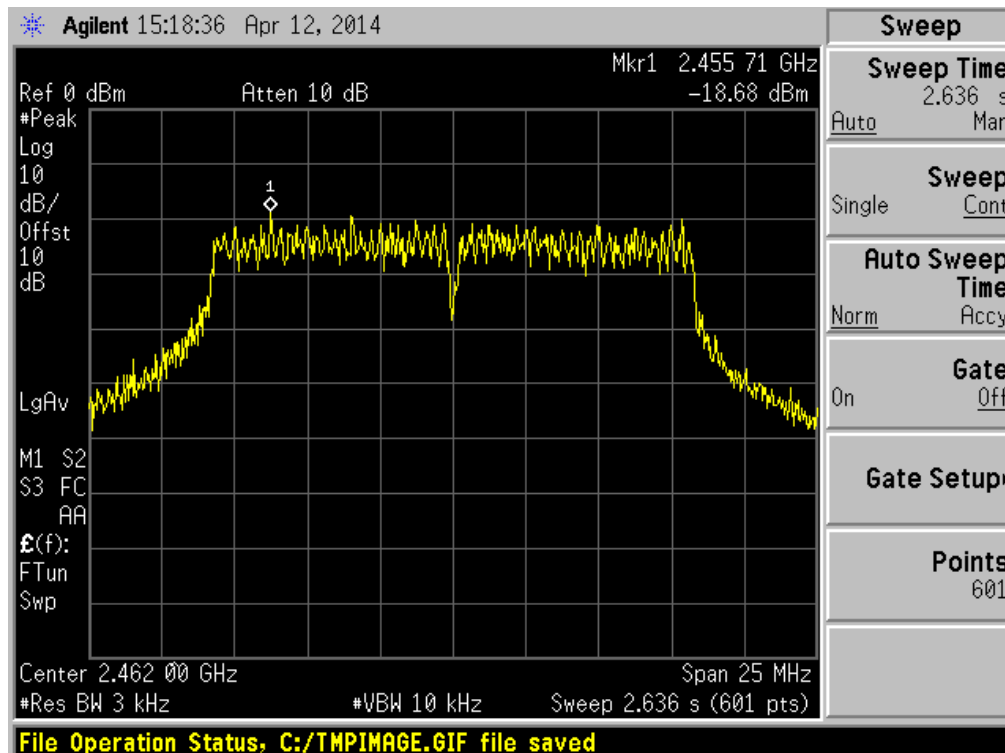
### A.1.4, 802.11g LOW CHANNEL



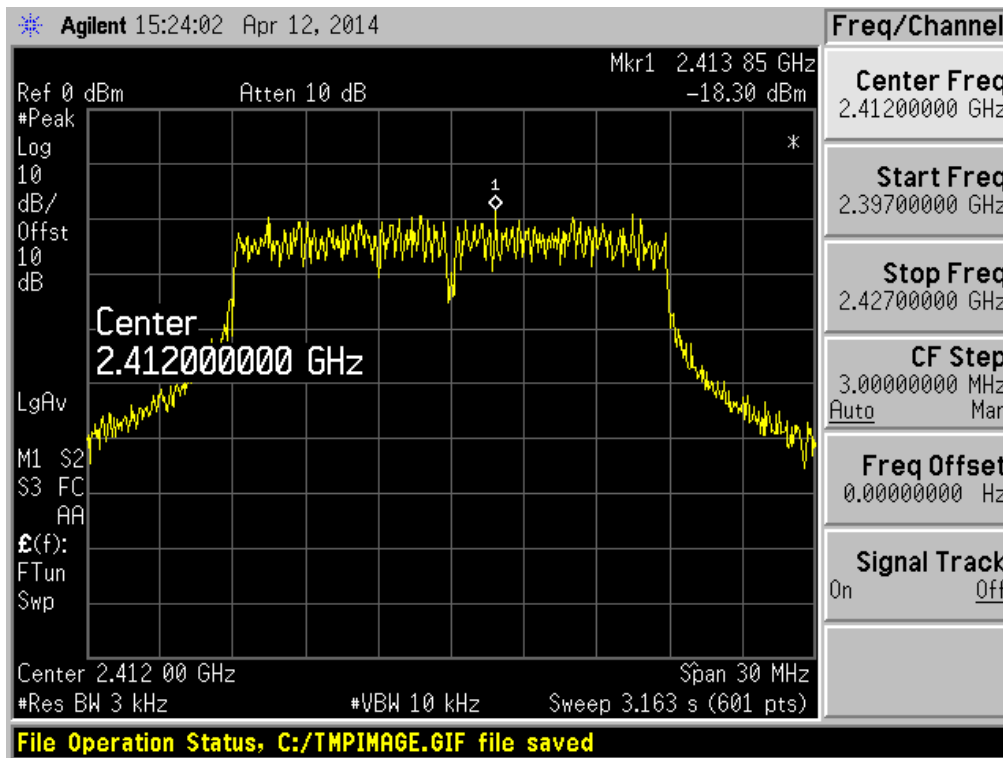
### A.1.5, 802.11g MID CHANAEL



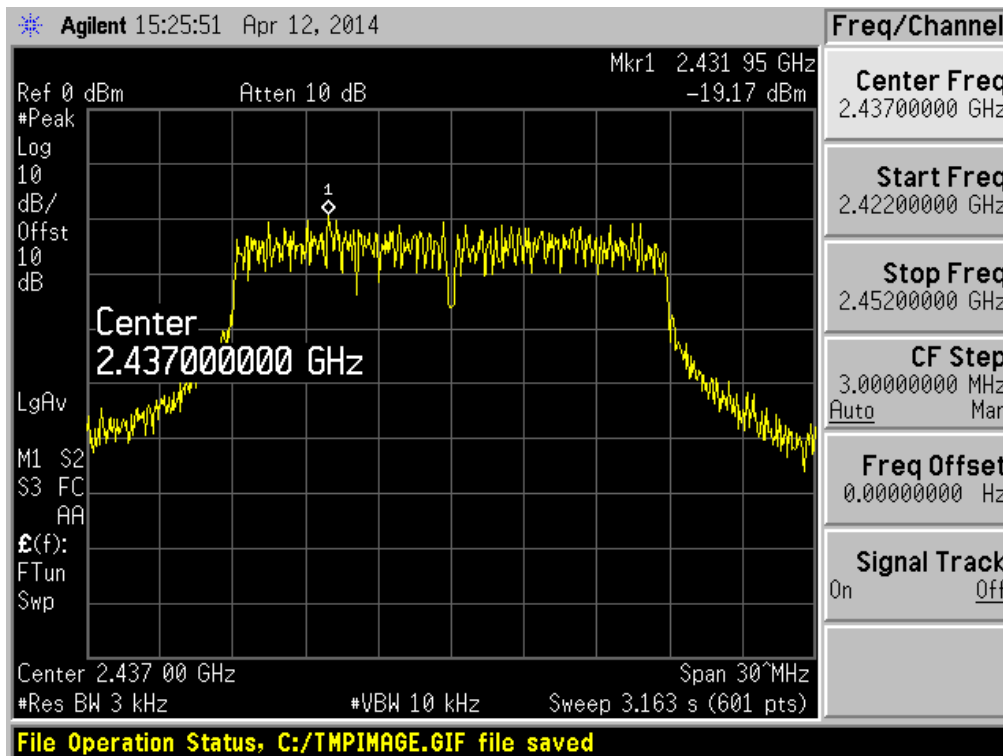
### A.1.6, 802.11g HIGH CHANNEL



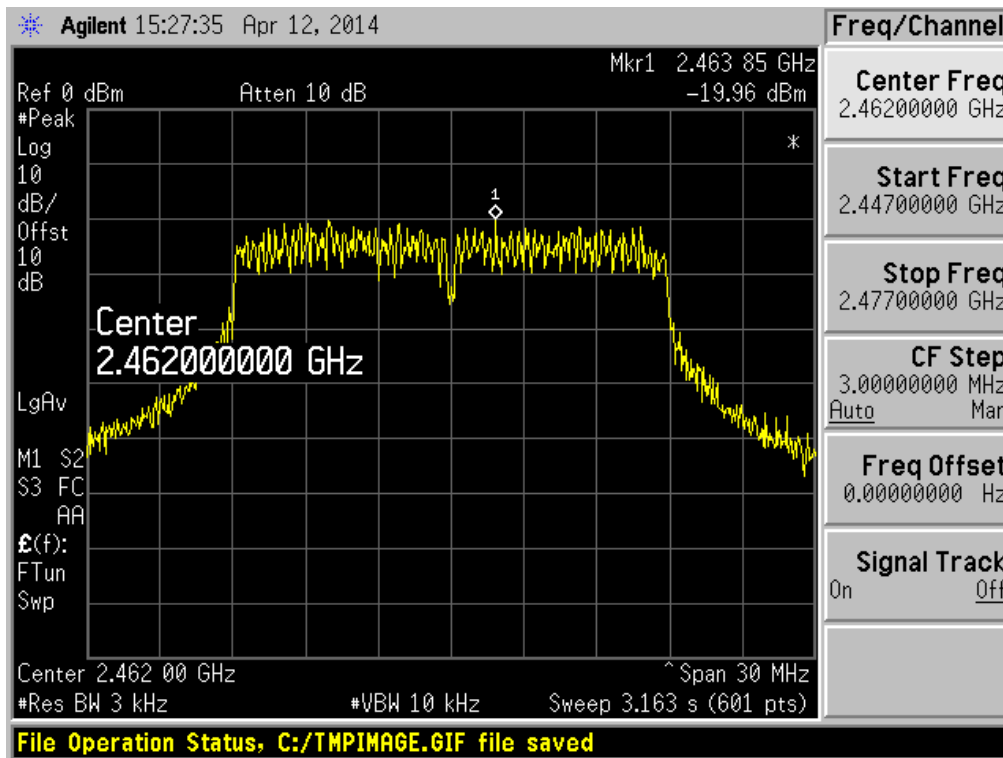
### A.1.7, 802.11n-20MHz LOW CHANNEL



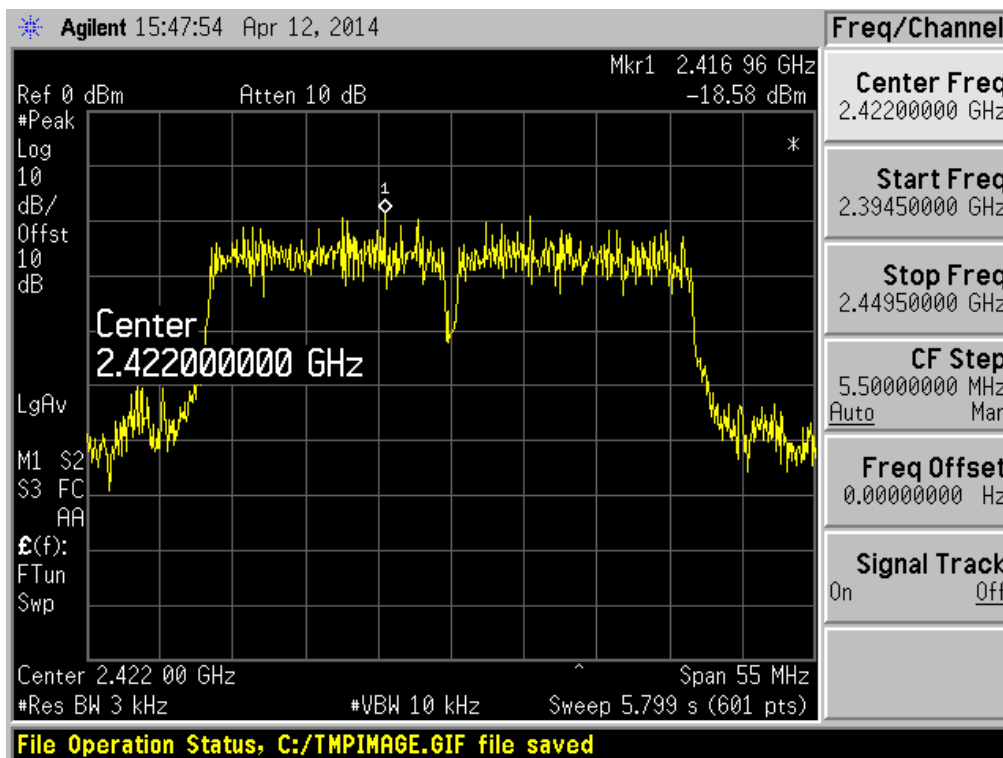
### A.1.8, 802.11n-20MHz MID CHANAEL



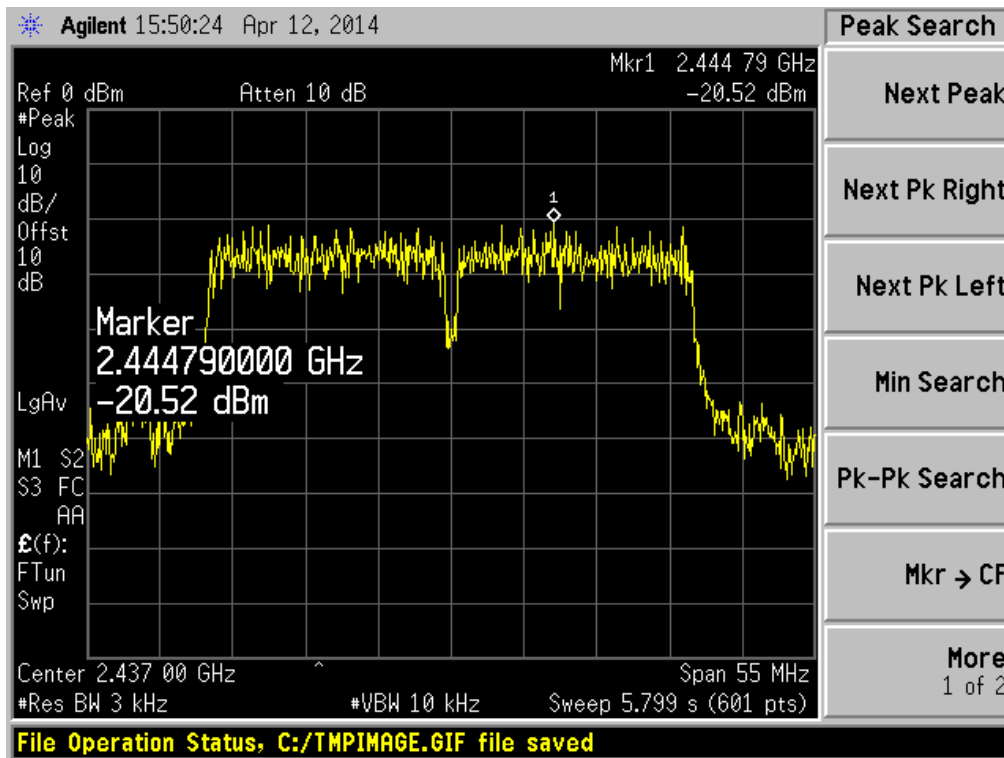
### A.1.9, 802.11n-20MHz HIGH CHANNEL



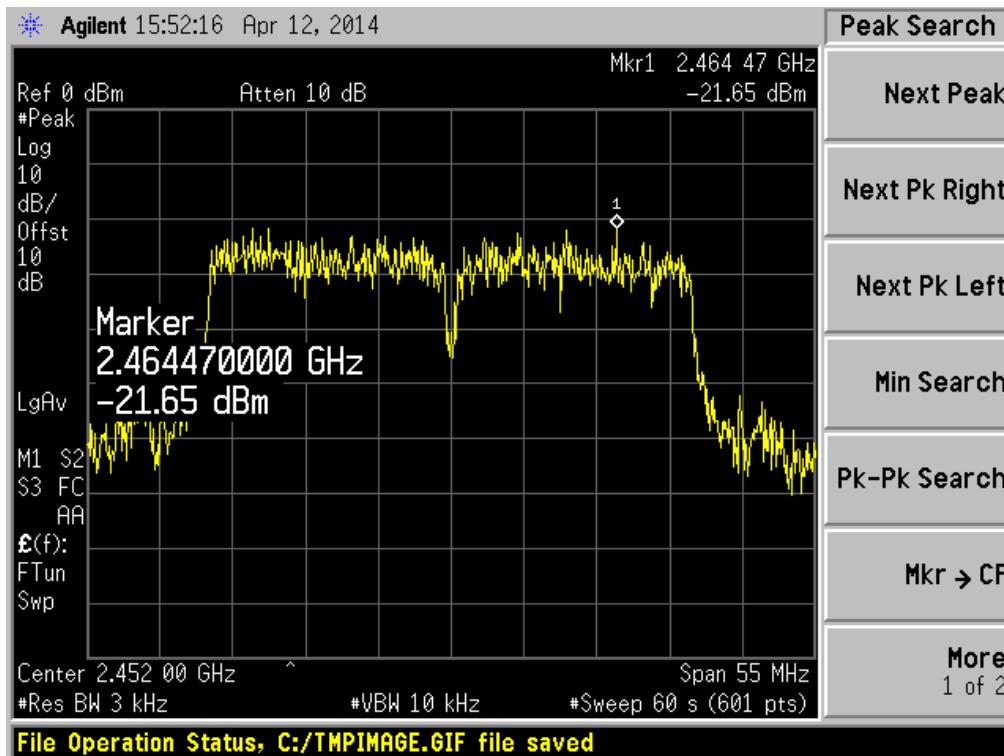
### A.1.10, 802.11n-40MHz LOW CHANNEL



### A.1.11, 802.11n-40MHz MID CHANNEL



### A.1.12, 802.11n-40MHz HIGH CHANNEL



--END OF REPORT--