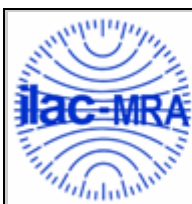


# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

**Product Name:** 7-inch Rugged Tablet  
**Brand Name:** Pioneerpos  
**Marketing Name:** DASH 7" Robust Tablet PC  
**Model No.:** DASH7E1  
**Model Difference:** N/A  
**FCC ID:** CPOD7E1  
**Report No.:** ER/2015/40012  
**Issue Date:** Jul. 09, 2015  
**FCC Rule Part:** §15.407  
**Prepared for:** Pioneer POS Solution, Inc.  
238 Benton Ct., City of Industry, CA 91789  
**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No.134, Wu Kung Road, New Taipei Industrial  
Park, Wuku District, New Taipei City, Taiwan  
24803



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## VERIFICATION OF COMPLIANCE

**Applicant:** Pioneer POS Solution, Inc.  
238 Benton Ct., City of Industry, CA 91789

**Product Name:** 7-inch Rugged Tablet

**Brand Name:** Pioneerpos

**Marketing Name:** DASH 7" Robust Tablet PC

**Model No.:** DASH7E1

**Model Difference:** N/A

**FCC ID:** CPOD7E1

**File Number:** ER/2015/40012

**Date of test:** Apr. 02, 2015 ~ Jul. 03, 2015

**Date of EUT Received:** Apr. 02, 2015

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

**Test By:** Marcus Tseng **Date:** Jul. 09, 2015

Marcus Tseng / Engineer

**Prepared By:** Violetta Tang **Date:** Jul. 09, 2015

Violetta Tang / Clerk

**Approved By:** Jim Chang **Date:** Jul. 09, 2015

Jim Chang / Asst. Manager

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## Revision History

| Report Number | Revision | Description                  | Issue Date    |
|---------------|----------|------------------------------|---------------|
| ER/2015/40012 | Rev.00   | Initial creation of document | Jul. 09, 2015 |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |

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## 1. GENERAL INFORMATION

### 1.1 Product Description

General:

|                              |                                                                      |                                                                    |
|------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|
| Product Name:                | 7-inch Rugged Tablet                                                 |                                                                    |
| Brand Name:                  | Pioneerpos                                                           |                                                                    |
| Marketing Name:              | DASH 7" Robust Tablet PC                                             |                                                                    |
| Model No.:                   | DASH7E1                                                              |                                                                    |
| Model Difference:            | N/A                                                                  |                                                                    |
| Product SW/HW version:       | 20150128 / A0.3_0_0                                                  |                                                                    |
| Radio SW/HW version:         | N/A                                                                  |                                                                    |
| Test SW Version:             | N/A                                                                  |                                                                    |
| RF power setting in TEST SW: | N/A                                                                  |                                                                    |
| Power Supply:                | 7.4Vdc from Rechargeable Li-ion Battery<br>or 12V from AC/DC Adapter |                                                                    |
|                              | Battery:                                                             | Model No.: J1067, Supplier: JHT                                    |
|                              | Adapter:                                                             | Model No.: LTE-24E-S2-2,<br>Supplier: Li Tone Electronics Co., Ltd |

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## WLAN 5GHz:

| Wi-Fi               | Frequency Range   | Channels | Rated Power (Avg.)                                                                                                                                                                                               | Modulation Technology |
|---------------------|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 11a                 | 5150~5250         | 4        | 9.88dBm                                                                                                                                                                                                          | OFDM                  |
|                     | 5250~5350         | 4        | 10.34dBm                                                                                                                                                                                                         |                       |
|                     | 5470~5725         | 11       | 10.19dBm                                                                                                                                                                                                         |                       |
|                     | 5725-5850         | 5        | 10.32dBm                                                                                                                                                                                                         |                       |
| 11n                 | HT20<br>5150~5250 | 4        | 10.36dBm (MIMO Chain 0+1)                                                                                                                                                                                        | OFDM                  |
|                     | HT20<br>5250~5350 | 4        | 10.31dBm (MIMO Chain 0+1)                                                                                                                                                                                        |                       |
|                     | HT20<br>5470~5725 | 11       | 10.50dBm (MIMO Chain 0+1)                                                                                                                                                                                        |                       |
|                     | HT20<br>5725-5850 | 5        | 10.15dBm (MIMO Chain 0+1)                                                                                                                                                                                        |                       |
| 11n                 | HT40<br>5150~5250 | 2        | 10.45dBm (MIMO Chain 0+1)                                                                                                                                                                                        | OFDM                  |
|                     | HT40<br>5250~5350 | 2        | 10.29dBm (MIMO Chain 0+1)                                                                                                                                                                                        |                       |
|                     | HT40<br>5470~5725 | 5        | 9.90dBm (MIMO Chain 0+1)                                                                                                                                                                                         |                       |
|                     | HT40<br>5725-5850 | 2        | 10.51dBm (MIMO Chain 0+1)                                                                                                                                                                                        |                       |
| Antenna Designation |                   |          | PIFA Antenna,<br>Main: Gain: 6.54dBi (5150MHz-5350MHz)<br>5.19dBi (5470MHz-5725MHz) / 3.67dBi (5725MHz-5850MHz)<br>Aux: Gain: 1.79dBi (5150MHz-5350MHz)<br>1.90dBi (5470MHz-5725MHz) / 2.43dBi (5725MHz-5850MHz) |                       |
| Modulation type     |                   |          | 64QAM, 16QAM, QPSK, BPSK for OFDM                                                                                                                                                                                |                       |
| Transition Rate:    |                   |          | 802.11 a: 6/9/12/18/24/36/48/54 Mbps<br>802.11 n_20MHz: 6.5 – 135Mbps<br>802.11 n_40MHz: 13.5 – 300Mbps                                                                                                          |                       |

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## 1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is 7-inch Rugged Tablet supporting, Wi-Fi 802.11abgn, Bluetooth with GPS and NFC features, and below is details of information.

| Product Feature     |                          |
|---------------------|--------------------------|
| Product Name:       | 7-inch Rugged Tablet     |
| Brand Name:         | Pioneerpos               |
| Marketing Name:     | DASH 7" Robust Tablet PC |
| Model No.:          | DASH7E1                  |
| Model Difference:   | N/A                      |
| FCC ID              | CPOD7E1                  |
| Wi-Fi Specification | 802.11a/b/g/n            |
| Bluetooth Version   | V4.0 dual mode +EDR      |
| NFC Specification   | NFC                      |

**Note:** The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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### 1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01

FCC KDB 662311 D01 Multiple Transmitter Output

ANSI C63.10:2009

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.
3. The EUT was placed 0.8m height for frequency above 1GHz in accordance with ANSI C63.10:2009.

### 1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-5.

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 1.6dB and 10dB attenuator.

Single mode offset

= RF cable loss (dB)+ attenuation factor(dB) +duty factor =11.6(dB)

N20 MIMO mode offset

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(NANT) dB+duty factor=14.6(dB)

N40 MIMO mode offset

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(NANT) dB+duty factor=14.6(dB)

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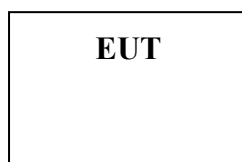
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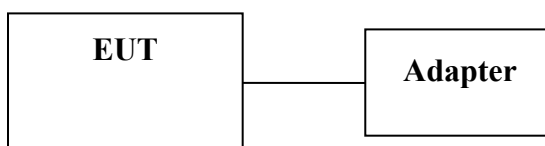
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## 2.5 Configuration of Tested System

**Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration**



**Fig. 2-2 AC Power Line Conducted Emission**



**Table 2-1 Equipment Used in Tested System**

| Item | Equipment          | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1.   | WLAN Test Software | N/A       | N/A            | N/A        | N/A        | N/A        |

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### 3. SUMMARY OF TEST RESULT

| FCC Rules                | Description Of Test                            | Result    |
|--------------------------|------------------------------------------------|-----------|
| §15.207                  | AC Power Line Conducted Emission               | Compliant |
| §15.403(i)<br>§15.407(e) | 26 dB & 6dB Emission Bandwidth                 | Compliant |
| §15.407(a)               | Maximum Conducted Output Power                 | Compliant |
| §15.407(a)               | Power Spectral Density                         | Compliant |
| §15.407(b)               | Undesirable Radiated Emissions                 | Compliant |
| §15.407(c)               | Transmission in case of Absence of Information | Compliant |
| §15.407(g)               | Frequency Stability                            | Compliant |
| §15.203<br>§15.407(a)    | Antenna Requirement                            | Compliant |

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## 4. DESCRIPTION OF TEST MODES

### 4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 44      | 5220 MHz  |
| 40      | 5200 MHz  | 48      | 5240 MHz  |

2 channels are provided for 802.11n HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 46      | 5230 MHz  |

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 60      | 5300 MHz  |
| 56      | 5280 MHz  | 64      | 5320 MHz  |

2 channels are provided for 802.11n HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 54      | 5270 MHz  | 62      | 5310 MHz  |

Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620 MHz  |
| 104     | 5520 MHz  | 128     | 5640 MHz  |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  |         |           |

5 channels are provided for 802.11n HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  |         |           |

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Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 161     | 5805 MHz  |
| 153     | 5765 MHz  | 165     | 5825 MHz  |
| 157     | 5785 MHz  |         |           |

2 channels are provided for 802.11n HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 151     | 5755 MHz  | 159     | 5795 MHz  |

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

### RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) |                      |                   |                |            |                  |              |
|--------------------------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a                              | 5180~5240            | 36 to 48          | 44             | OFDM       | 6                | MAIN         |
| 802.11a                              | 5260~5320            | 52 to 64          | 60             | OFDM       | 6                | MAIN         |
| 802.11a                              | 5500~5700            | 100 to 140        | 116            | OFDM       | 6                | MAIN         |
| 802.11a                              | 5745~5825            | 149 to 165        | 157            | OFDM       | 6                | MAIN         |
| RADIATED EMISSION TEST (ABOVE 1 GHz) |                      |                   |                |            |                  |              |
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a                              | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | 6                | MAIN         |
| 802.11n_HT20                         |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40                         | 5190~5230            | 38 to 46          | 38,46          | OFDM       | MCS8             | MIMO         |
| 802.11a                              | 5260~5320            | 52 to 64          | 52,60,64       | OFDM       | 6                | MAIN         |
| 802.11n_HT20                         |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40                         | 5270~5310            | 54 to 62          | 54,62          | OFDM       | MCS8             | MIMO         |
| 802.11a                              | 5500~5700            | 100 to 140        | 100,116,140    | OFDM       | 6                | MAIN         |
| 802.11n_HT20                         |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40                         | 5510~5670            | 102 to 134        | 102,110,134    | OFDM       | MCS8             | MIMO         |
| 802.11a                              | 5745~5825            | 149 to 165        | 149,157,165    | OFDM       | 6                | MAIN         |
| 802.11n_HT20                         |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40                         | 5755~5795            | 151 to 159        | 151,159        | OFDM       | MCS8             | MIMO         |

### Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n WLAN Transmitter for channel Low, Mid and High, the worst case E1 position was reported.

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**ANTENNA PORT CONDUCTED MEASUREMENT:**

| <b>CONDUCTED TEST</b> |                      |                   |                |            |                  |              |
|-----------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                  | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a               | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | 6                | MAIN         |
| 802.11n_HT20          |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40          | 5190~5230            | 38 to 46          | 38,46          | OFDM       | MCS8             | MIMO         |
| 802.11a               | 5260~5320            | 52 to 64          | 52,60,64       | OFDM       | 6                | MAIN         |
| 802.11n_HT20          |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40          | 5270~5310            | 54 to 62          | 54,62          | OFDM       | MCS8             | MIMO         |
| 802.11a               | 5500~5700            | 100 to 140        | 100,116,140    | OFDM       | 6                | MAIN         |
| 802.11n_HT20          |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40          | 5510~5670            | 102 to 134        | 102,110,134    | OFDM       | MCS8             | MIMO         |
| 802.11a               | 5745~5825            | 149 to 165        | 149,157,165    | OFDM       | 6                | MAIN         |
| 802.11n_HT20          |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40          | 5755~5795            | 151 to 159        | 151,159        | OFDM       | MCS8             | MIMO         |

Note: FCC ID, CPOD7E1, and FCC ID CPOD7E1-LTE share the equivalently identical enclosure, material of coating, I/O function, PCB board, display, and power source. In addition, ID CPOD7E1, and ID CPOD7E1-LTE implement the same Bluetooth/WLAN chipset/module with the same antenna that operates with the same transmitted power level. Hence, this given test report contains the identical test results that inherent from ID CPOD7E1-LTE.

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## 5. MEASUREMENT UNCERTAINTY

| Test Items                              | Uncertainty                |
|-----------------------------------------|----------------------------|
| AC Power Line Conducted Emission        | +/- 2.586 dB               |
| 26dB Emission Bandwidth                 | +/- 123.36 Hz              |
| The Maximum Output Power Measurement    | +/- 0.96 dB                |
| Peak Power Spectral Density Measurement | +/- 1.67 dB                |
| Frequency Stability                     | +/- 123.36 Hz              |
| Temperature                             | +/- 0.65 °C                |
| Humidity                                | +/- 4.6 %                  |
| DC / AC Power Source                    | DC= +/- 0.13%, AC=+/- 0.2% |

### Radiated Spurious Emission:

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Vertical</b> ) | 30MHz - 180MHz: +/- 3.37dB |
|                                                              | 180MHz -417MHz: +/- 3.19dB |
|                                                              | 0.417GHz-1GHz: +/- 3.19dB  |
|                                                              | 1GHz - 18GHz: +/- 4.04dB   |
|                                                              | 18GHz - 40GHz: +/- 4.04dB  |

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 30MHz - 167MHz: +/- 4.22dB |
|                                                                | 167MHz -500MHz: +/- 3.44dB |
|                                                                | 0.5GHz-1GHz: +/- 3.39dB    |
|                                                                | 1GHz - 18GHz: +/- 4.08dB   |
|                                                                | 18GHz - 40GHz: +/- 4.08dB  |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 6. CONDUCTED EMISSION TEST

### 6.1. Standard Applicable

According to §15.207, frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

| Frequency range<br>MHz                                                                                | Limits<br>dB(uV) |          |
|-------------------------------------------------------------------------------------------------------|------------------|----------|
|                                                                                                       | Quasi-peak       | Average  |
| 0.15 to 0.50                                                                                          | 66 to 56         | 56 to 46 |
| 0.50 to 5                                                                                             | 56               | 46       |
| 5 to 30                                                                                               | 60               | 50       |
| Note                                                                                                  |                  |          |
| 1.The lower limit shall apply at the transition frequencies                                           |                  |          |
| 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. |                  |          |

### 6.2. Measurement Equipment Used

| Conducted Emission Test Site |             |                             |                  |              |            |
|------------------------------|-------------|-----------------------------|------------------|--------------|------------|
| EQUIPMENT<br>TYPE            | MFR         | MODEL<br>NUMBER             | SERIAL<br>NUMBER | LAST<br>CAL. | CAL DUE.   |
| EMI Test Receiver            | R&S         | ESCI7                       | 100760           | 05/04/2014   | 05/03/2015 |
| LISN                         | SCHWARZBECK | NSLK 8127                   | 8127-649         | 05/15/2015   | 05/14/2016 |
| LISN                         | FCC         | FCC-LISN-50/250-25<br>-2-01 | 04034            | 03/13/2015   | 03/12/2016 |
| Coaxial Cables               | N/A         | WK CE Cable                 | N/A              | 11/26/2014   | 11/25/2015 |

### 6.3. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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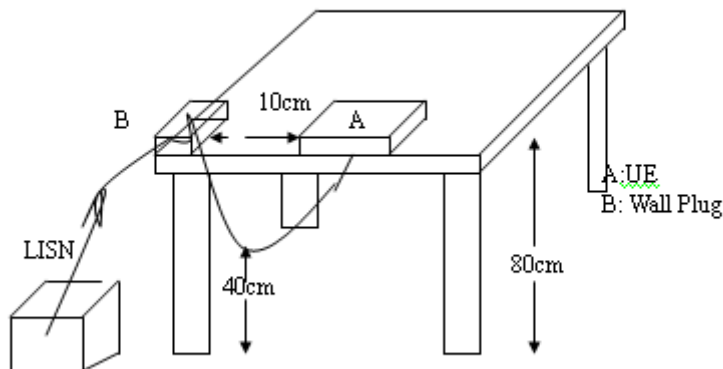
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## 6.4. Test SET-UP



## 6.5. Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

## 6.6. Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that that closet to the limit

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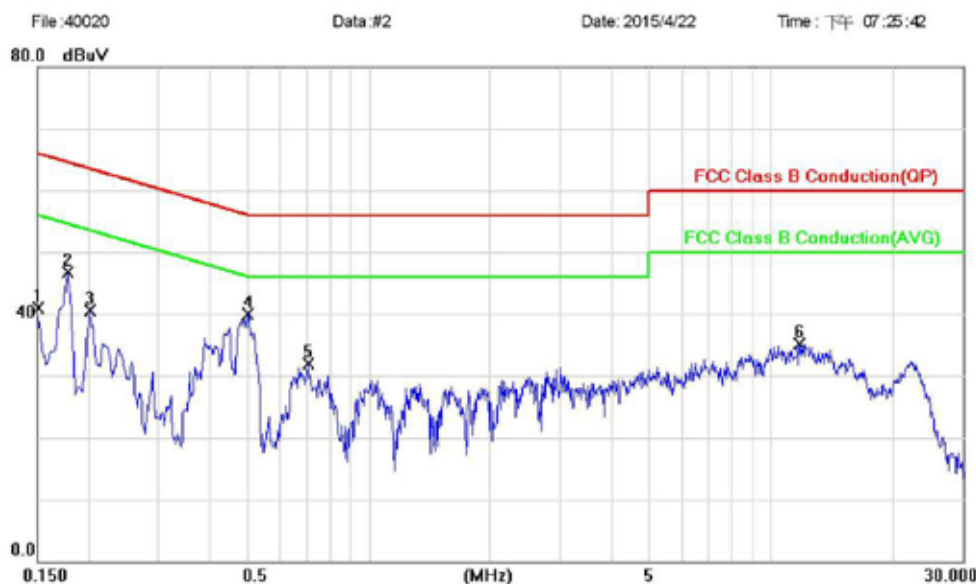
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

|                 |                |           |      |            |               |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Operation mode |           |      | Test Date: | Apr. 22, 2015 |
| Temperature:    | 24             | Humidity: | 66 % | Test By:   | Marcus        |
|                 |                |           |      | Phase:     | L1            |

Site: ConductionRoom Phase: **L1** Temperature: 24 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 66%  
Mode: Operation  
Note: Adapter:LTE24E-S2-2

## ConductedEmission



| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   |     | 0.1500  | 40.84         | 0.05           | 40.89       | 66.00 | -25.11 | peak     |         |
| 2   |     | 0.1780  | 46.69         | 0.06           | 46.75       | 64.58 | -17.83 | peak     |         |
| 3   |     | 0.2020  | 40.51         | 0.06           | 40.57       | 63.53 | -22.96 | peak     |         |
| 4 * |     | 0.5020  | 39.79         | 0.08           | 39.87       | 56.00 | -16.13 | peak     |         |
| 5   |     | 0.7060  | 31.80         | 0.09           | 31.89       | 56.00 | -24.11 | peak     |         |
| 6   |     | 11.7460 | 34.79         | 0.38           | 35.17       | 60.00 | -24.83 | peak     |         |

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|                 |                |           |      |            |               |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Operation mode |           |      | Test Date: | Apr. 22, 2015 |
| Temperature:    | 24             | Humidity: | 66 % | Test By:   | Marcus        |
|                 |                |           |      | Phase:     | N             |

Site: ConductionRoom Phase: **N** Temperature: 24 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 66%  
Mode: Operation  
Note: Adapter:LTE24E-S2-2

### Conducted Emission



| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   |     | 0.1580  | 44.67         | 0.05           | 44.72       | 65.57 | -20.85 | peak     |         |
| 2   |     | 0.1740  | 45.55         | 0.05           | 45.60       | 64.77 | -19.17 | peak     |         |
| 3   |     | 0.2060  | 41.01         | 0.06           | 41.07       | 63.37 | -22.30 | peak     |         |
| 4   |     | 0.2140  | 39.17         | 0.06           | 39.23       | 63.05 | -23.82 | peak     |         |
| 5 * |     | 0.4900  | 37.61         | 0.07           | 37.68       | 56.17 | -18.49 | peak     |         |
| 6   |     | 10.5420 | 33.70         | 0.35           | 34.05       | 60.00 | -25.95 | peak     |         |

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## 7. DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

### Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

|                      | Duty Cycle | Duty Factor (dB) |
|----------------------|------------|------------------|
| 802.11a              | 95.35%     | 0.21             |
| 802.11n_20<br>(MIMO) | 90.78%     | 0.42             |
| 802.11n_40<br>(MIMO) | 83.76%     | 0.77             |

$$\text{Duty Cycle Factor: } 10 * \log (1/0.9535) = 0.21$$

$$\text{Duty Cycle Factor: } 10 * \log (1/0.9078) = 0.42$$

$$\text{Duty Cycle Factor: } 10 * \log (1/0.8376) = 0.77$$

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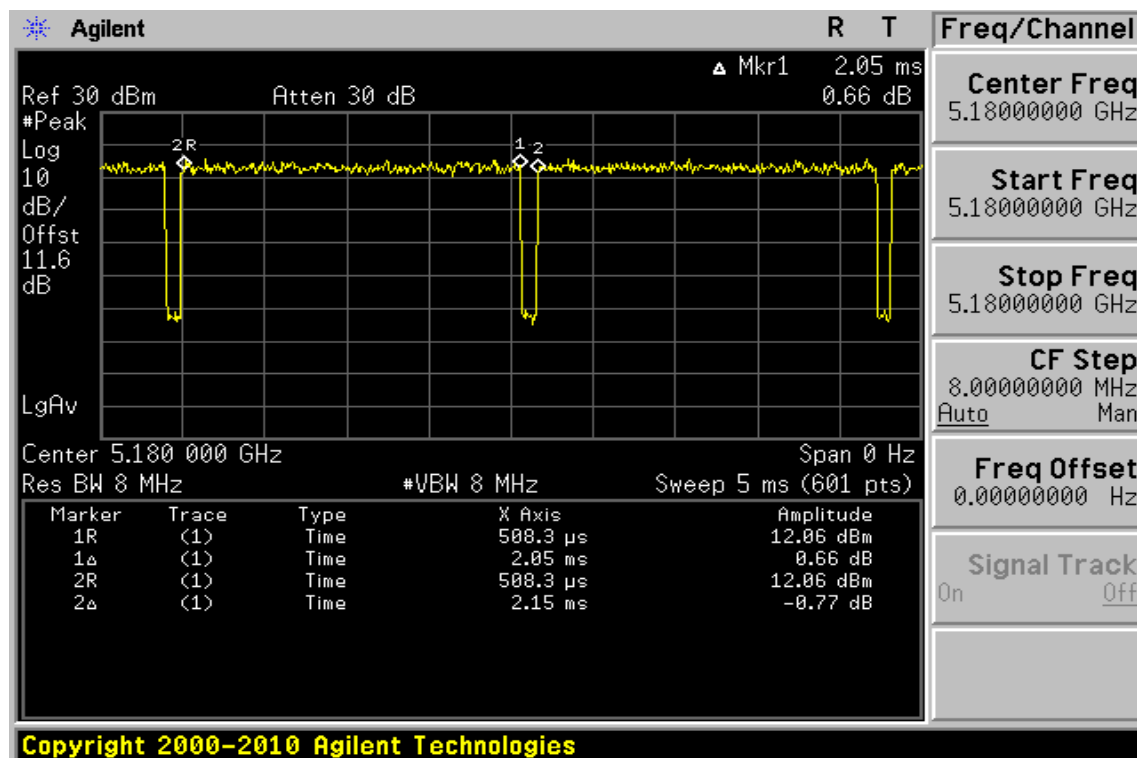
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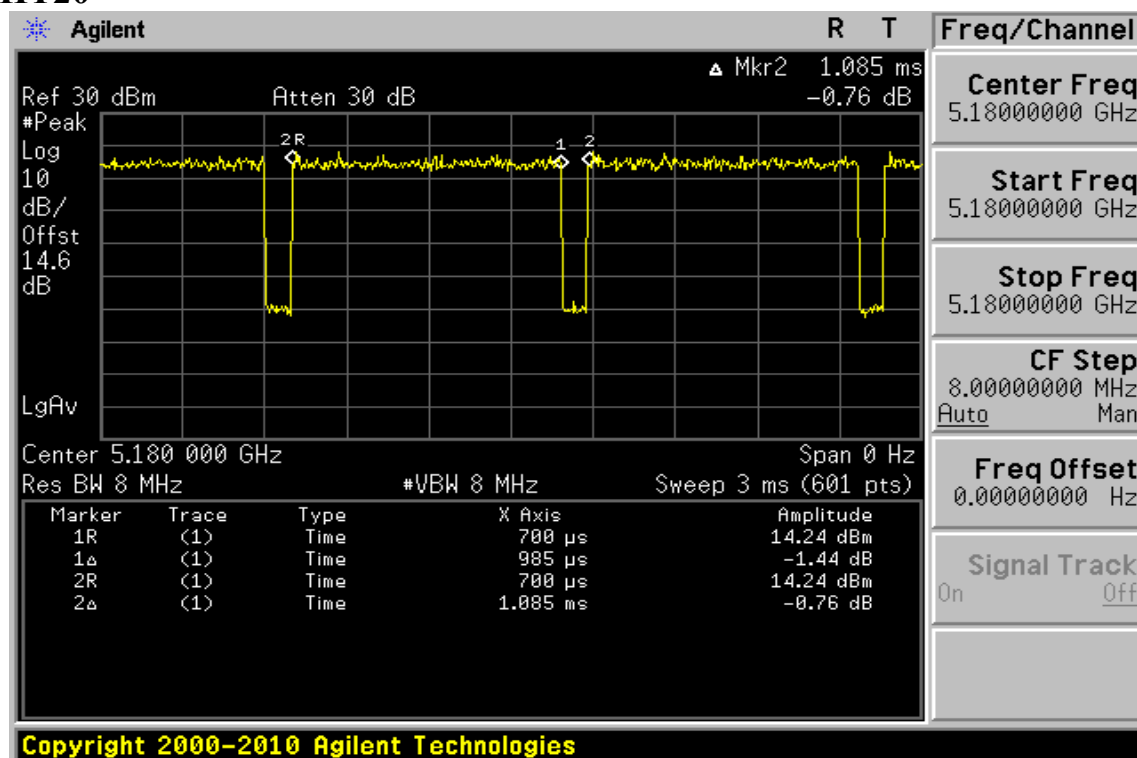
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## DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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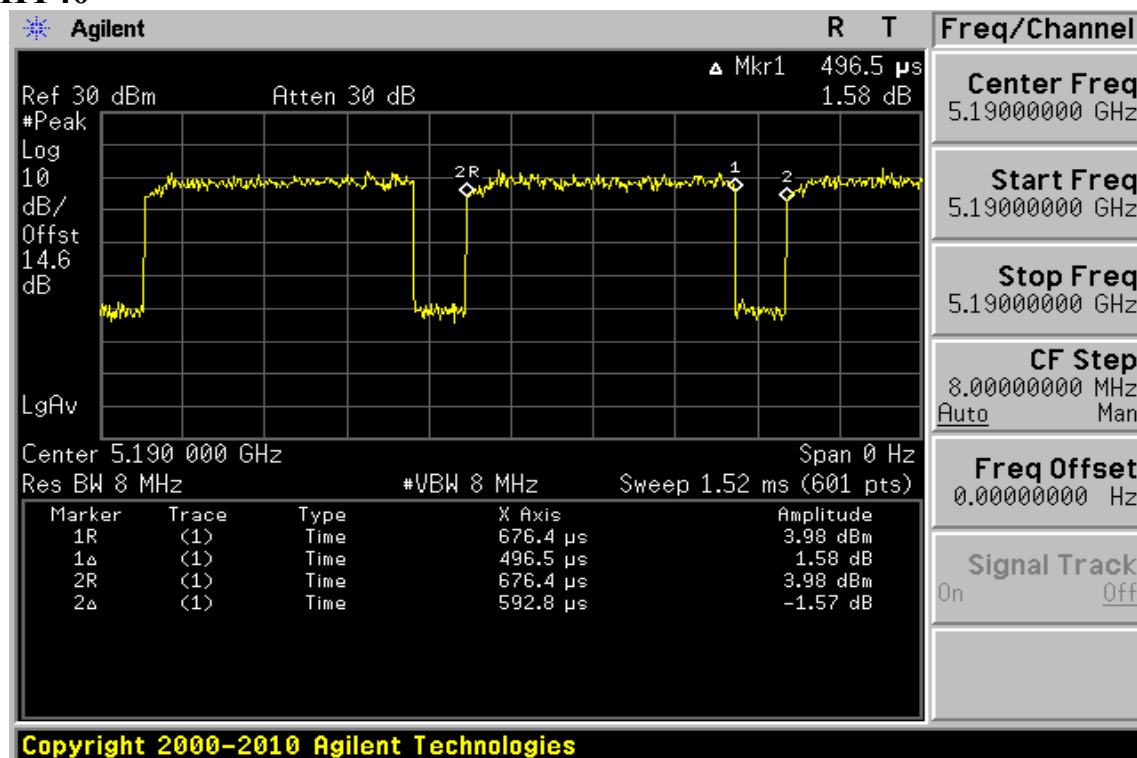
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## 802.11n HT40



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## 8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

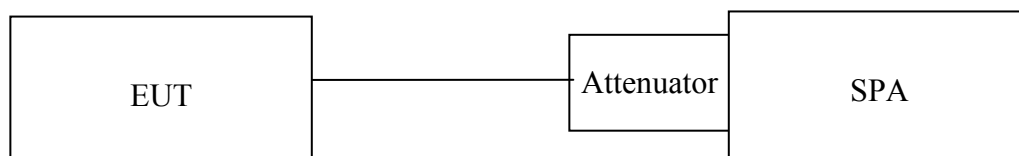
### 8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
  - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
  - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3\*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
  - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

### 8.3 Measurement Equipment Used

| Conducted Emission Test Site |               |              |               |            |            |
|------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer            | Agilent       | E4446A       | MY51100003    | 01/29/2015 | 01/28/2016 |
| DC Block                     | Mini-Circuits | BLK-18-S+    | 1             | 01/02/2015 | 01/01/2016 |
| Attenuator                   | Mini-Circuit  | BW-S10W2+    | 002           | 01/02/2015 | 01/01/2016 |
| Splitter                     | Agilent       | 11636B       | N/A           | 01/02/2015 | 01/01/2016 |

### 8.4 Test Set-up



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## 8.5 Measurement Result

### 26dB Bandwidth

802.11a

| Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|-------------------------|--------------------|
| 5180               | 22.518                  | 13.53              |
| 5220               | 22.371                  | 13.50              |
| 5240               | 22.396                  | 13.50              |
| 5260               | 22.930                  | 13.60              |
| 5300               | 22.060                  | 13.44              |
| 5320               | 22.482                  | 13.52              |
| 5500               | 21.460                  | 13.32              |
| 5580               | 22.861                  | 13.59              |
| 5700               | 22.014                  | 13.43              |

802.11n\_HT20 (Main)

| Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 10 Log (B)<br>(dB) |
|--------------------|-------------------------|--------------------|
| 5180               | 22.055                  | 13.44              |
| 5220               | 22.698                  | 13.56              |
| 5240               | 23.189                  | 13.65              |
| 5260               | 22.683                  | 13.56              |
| 5300               | 22.535                  | 13.53              |
| 5320               | 21.449                  | 13.31              |
| 5500               | 22.401                  | 13.50              |
| 5580               | 22.316                  | 13.49              |
| 5700               | 22.875                  | 13.59              |

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## 802.11n\_HT20 (Aux)

| Frequency (MHz) | 26dB Bandwidth (MHz) | 10 Log (B) (dB) |
|-----------------|----------------------|-----------------|
| 5180            | 23.103               | 13.64           |
| 5220            | 22.306               | 13.48           |
| 5240            | 21.651               | 13.35           |
| 5260            | 21.922               | 13.41           |
| 5300            | 23.094               | 13.63           |
| 5320            | 21.443               | 13.31           |
| 5500            | 21.446               | 13.31           |
| 5580            | 22.073               | 13.44           |
| 5700            | 22.679               | 13.56           |

## 802.11n\_HT40 (Main)

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5190            | 48.519                   | 16.86           |
| 5230            | 48.013                   | 16.81           |
| 5270            | 48.328                   | 16.84           |
| 5310            | 47.937                   | 16.81           |
| 5510            | 47.612                   | 16.78           |
| 5550            | 46.976                   | 16.72           |
| 5670            | 47.254                   | 16.74           |

## 802.11n\_HT40 (Aux)

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5190            | 48.864                   | 16.89           |
| 5230            | 48.464                   | 16.85           |
| 5270            | 47.912                   | 16.80           |
| 5310            | 48.593                   | 16.87           |
| 5510            | 47.130                   | 16.73           |
| 5550            | 47.396                   | 16.76           |
| 5670            | 47.708                   | 16.79           |

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**6dB Bandwidth (5725 MHz~ 5850 MHz)**

802.11a

| Frequency (MHz) | 6dB Bandwidth (MHz) | 10 Log (B) (dB) |
|-----------------|---------------------|-----------------|
| 5745            | 15.158              | 11.81           |
| 5785            | 16.055              | 12.06           |
| 5825            | 15.888              | 12.01           |

802.11n\_HT20 (Main)

| Frequency (MHz) | 6dB Bandwidth (MHz) | 10 Log (B) (dB) |
|-----------------|---------------------|-----------------|
| 5745            | 14.476              | 11.61           |
| 5785            | 15.939              | 12.02           |
| 5825            | 14.802              | 11.70           |

802.11n\_HT20 (Aux)

| Frequency (MHz) | 6dB Bandwidth (MHz) | 10 Log (B) (dB) |
|-----------------|---------------------|-----------------|
| 5745            | 15.120              | 11.80           |
| 5785            | 15.160              | 11.81           |
| 5825            | 15.516              | 11.91           |

802.11n\_HT40 (Main)

| Frequency (MHz) | 6dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5755            | 36.370                  | 15.61           |
| 5795            | 36.387                  | 15.61           |

802.11n\_HT40 (Aux)

| Frequency (MHz) | 6dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5755            | 36.304                  | 15.60           |
| 5795            | 36.380                  | 15.61           |

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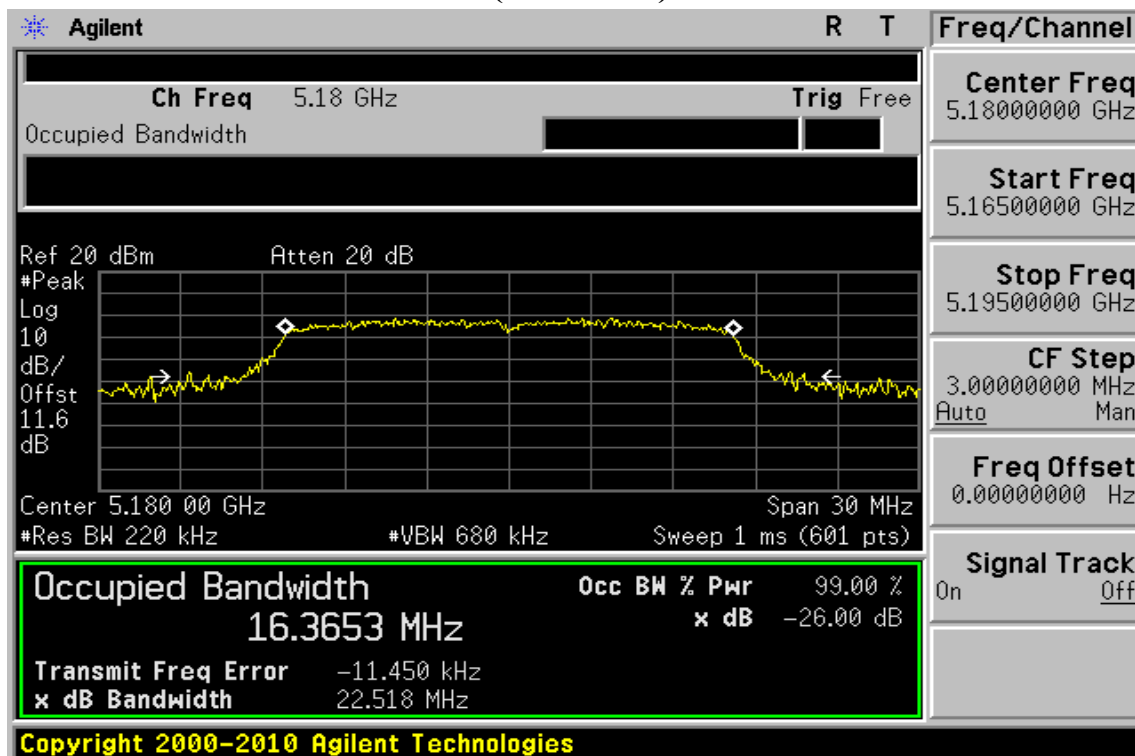
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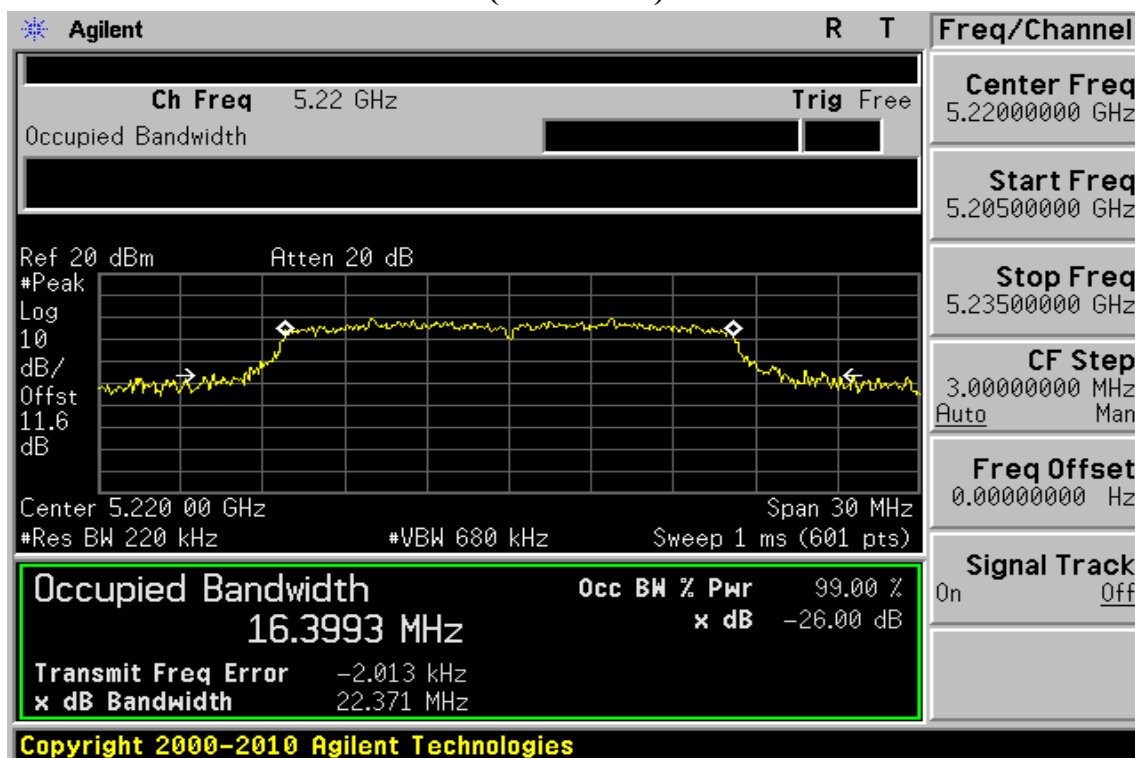
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## 802.11a, 5150~5250 MHz

## 26dB Band Width Test Data CH-Low (5180MHz)



## 26dB Band Width Test Data CH-Mid (5220MHz)



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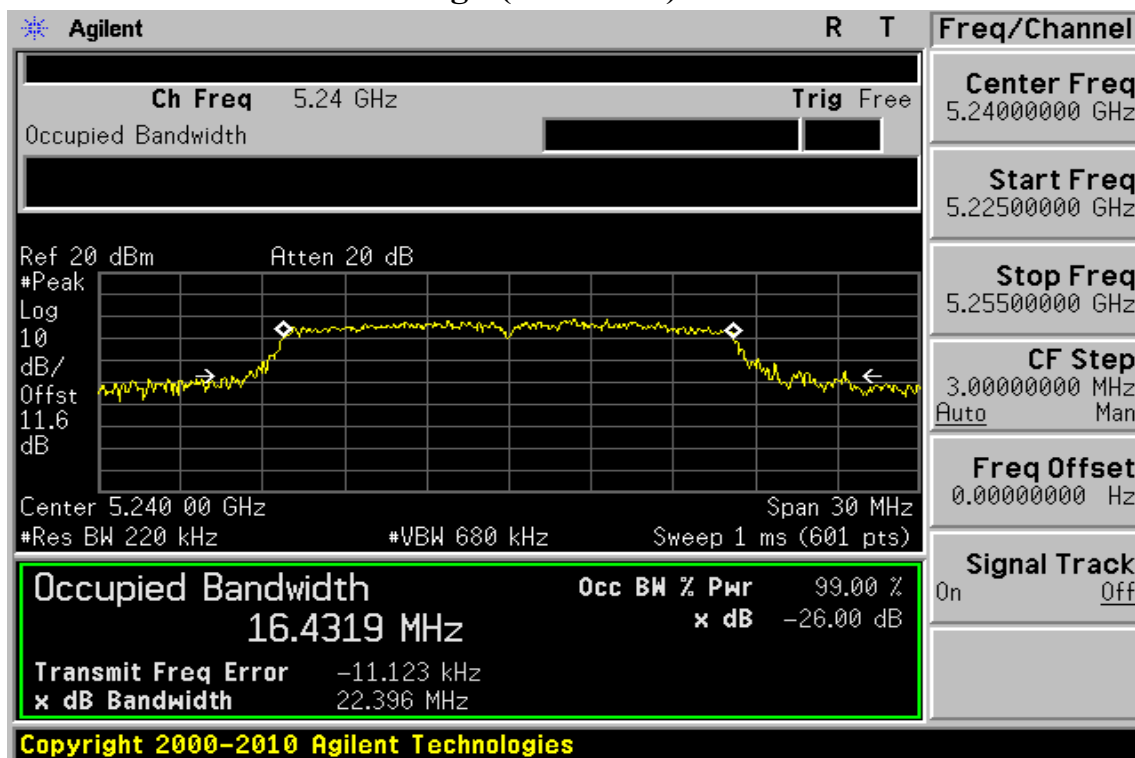
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## 26dB Band Width Test Data CH-High (5240MHz)



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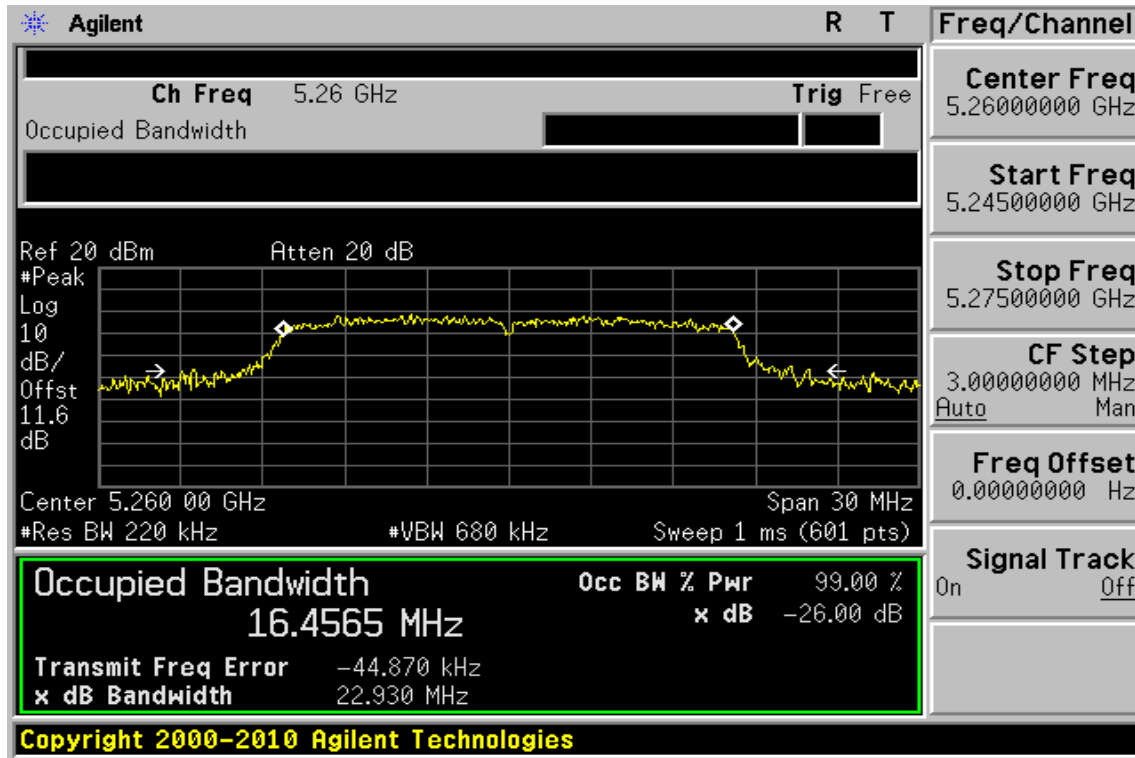
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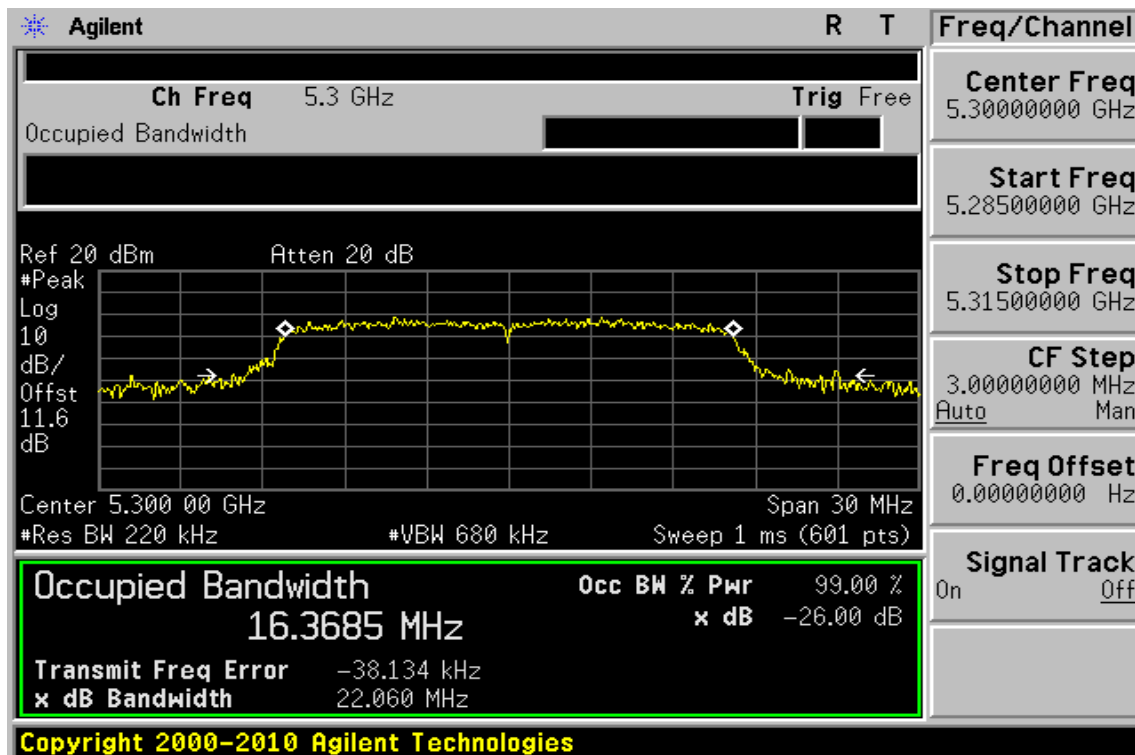
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## 802.11a, 5250~5350 MHz

## 26dB Band Width Test Data CH-Low (5260MHz)



## 26dB Band Width Test Data CH-Mid (5300MHz)



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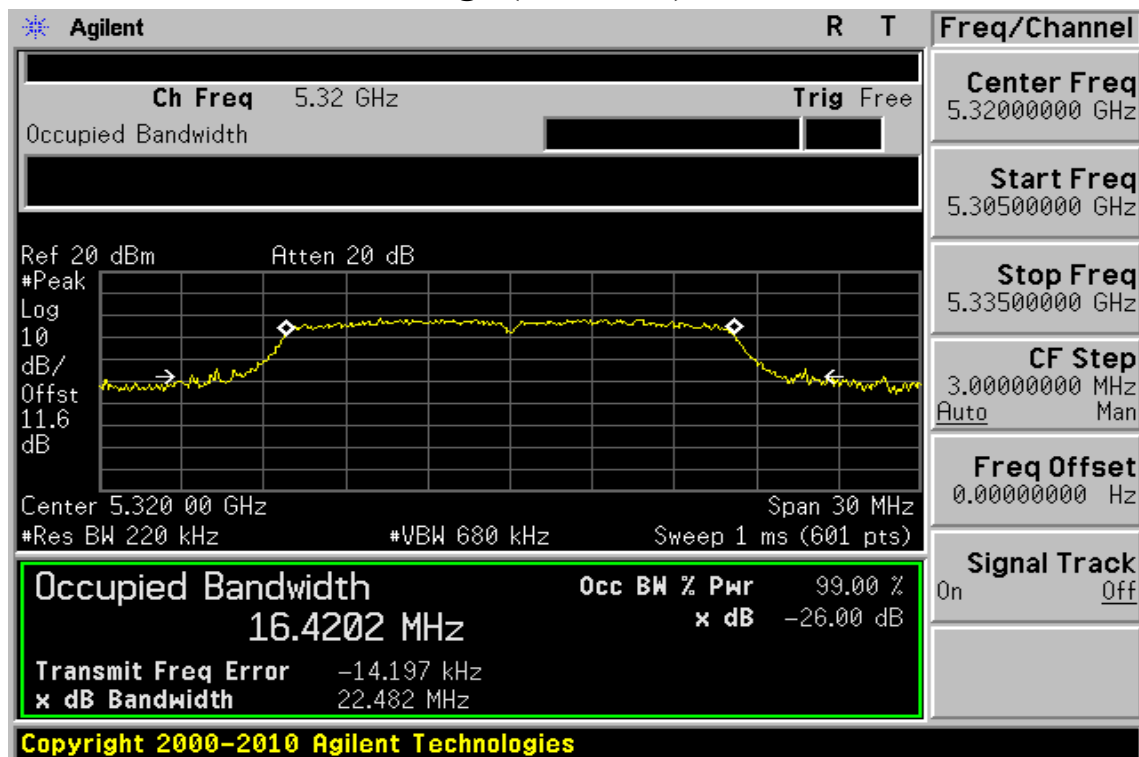
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## 26dB Band Width Test Data CH-High (5320MHz)



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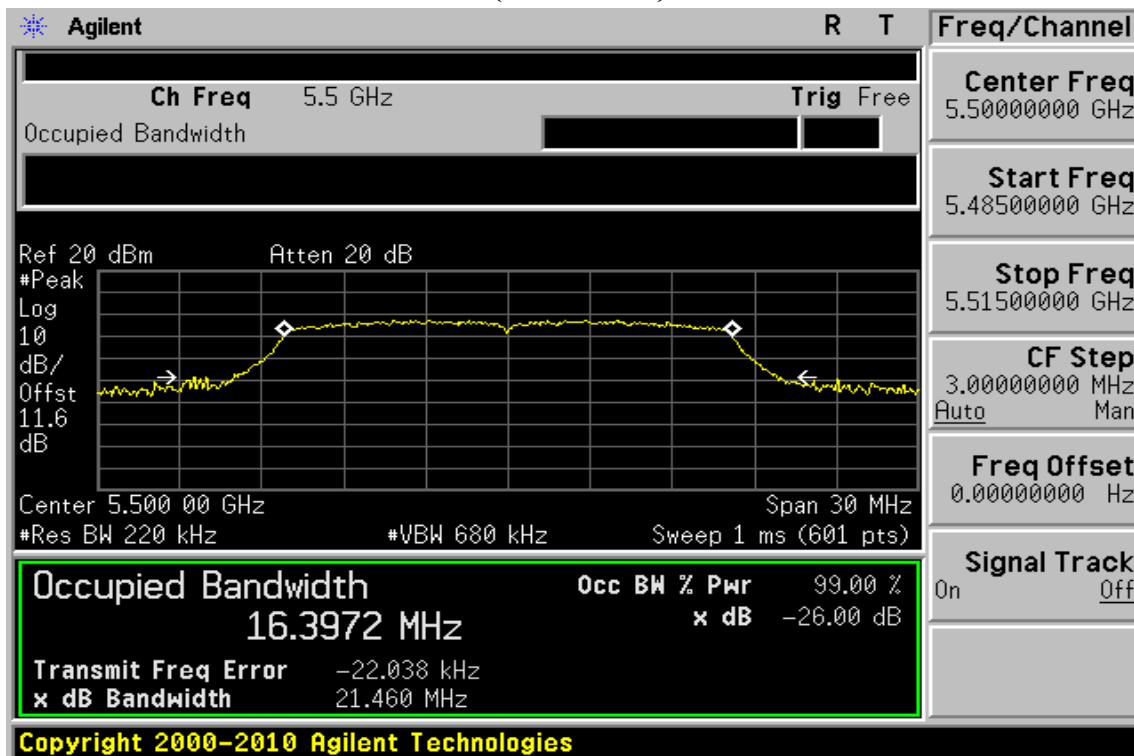
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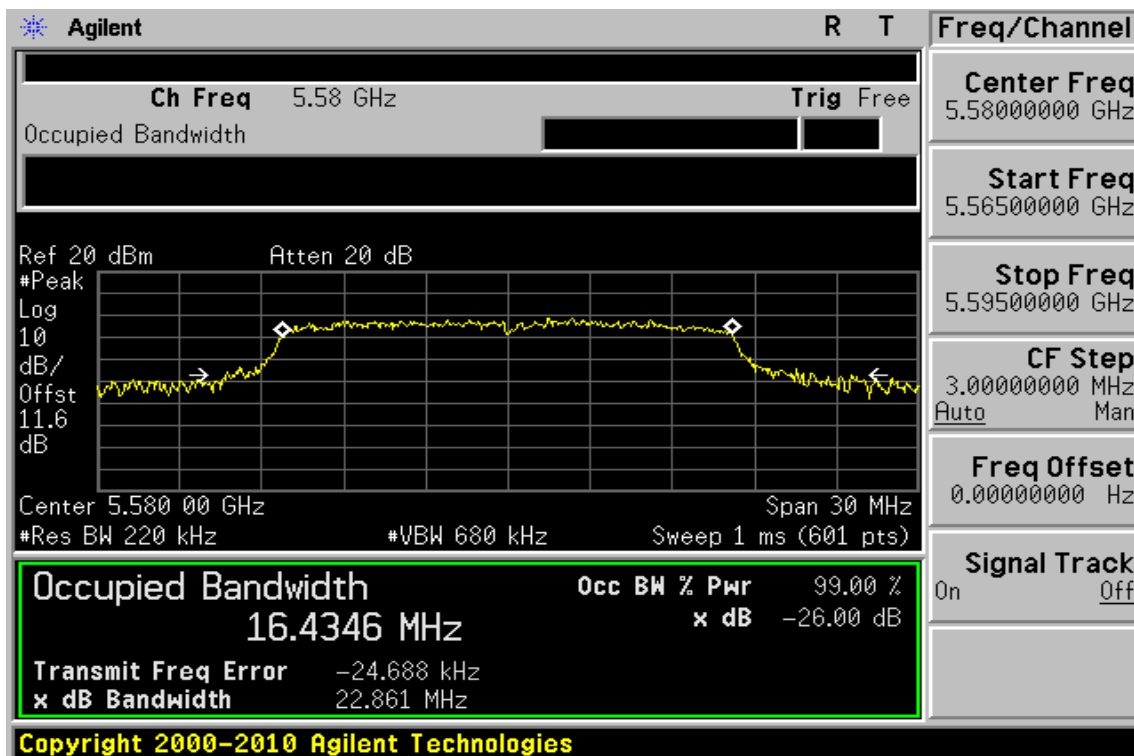
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## 802.11a, 5470~5725 MHz

## 26dB Band Width Test Data CH-Low (5500MHz)



## 26dB Band Width Test Data CH-Mid (5580MHz)



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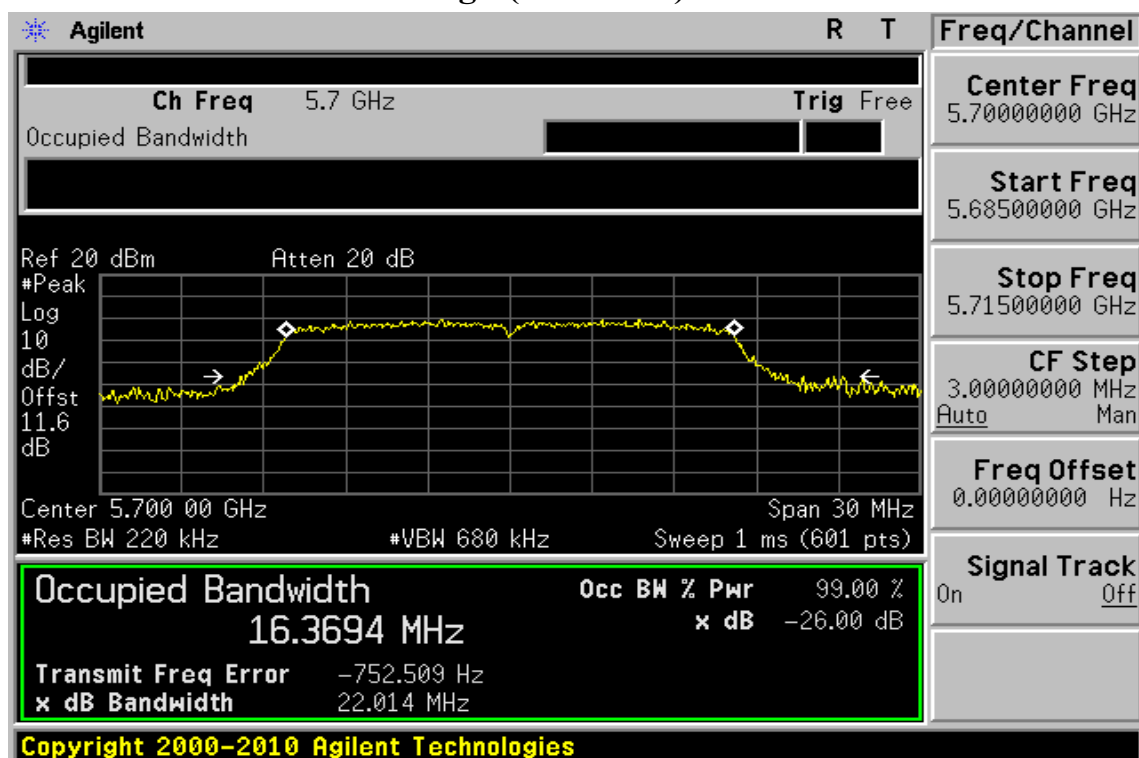
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## 26dB Band Width Test Data CH-High (5700MHz)



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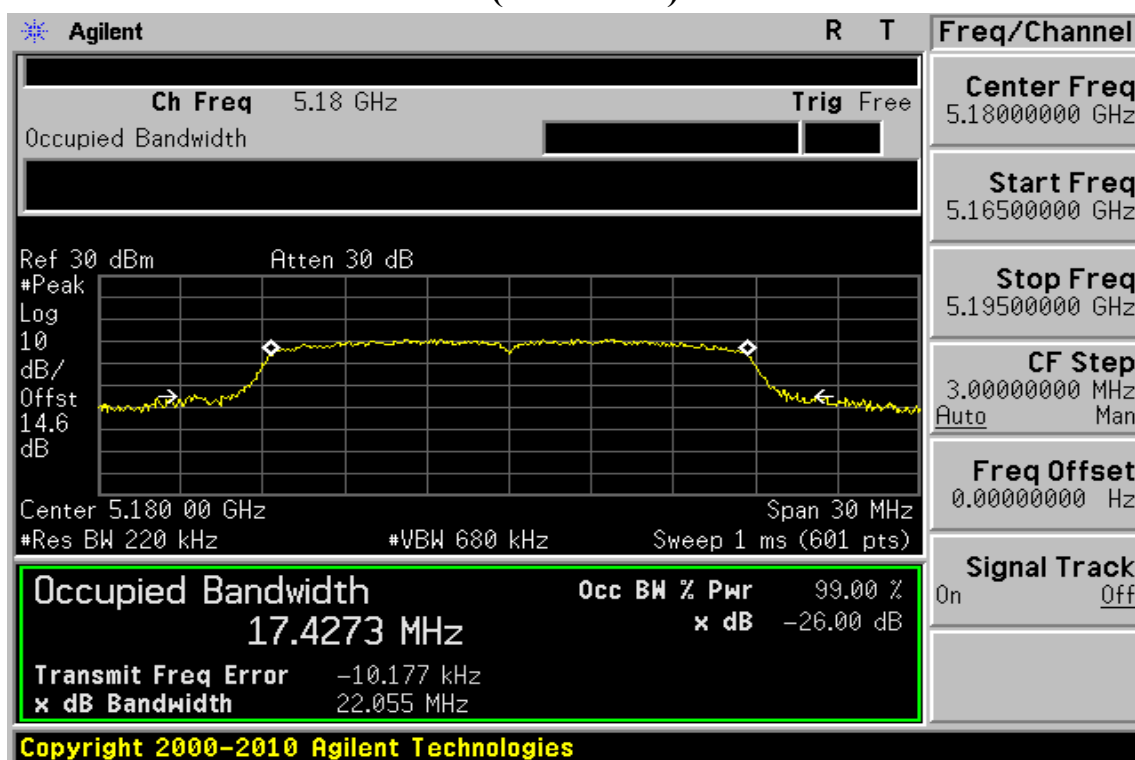
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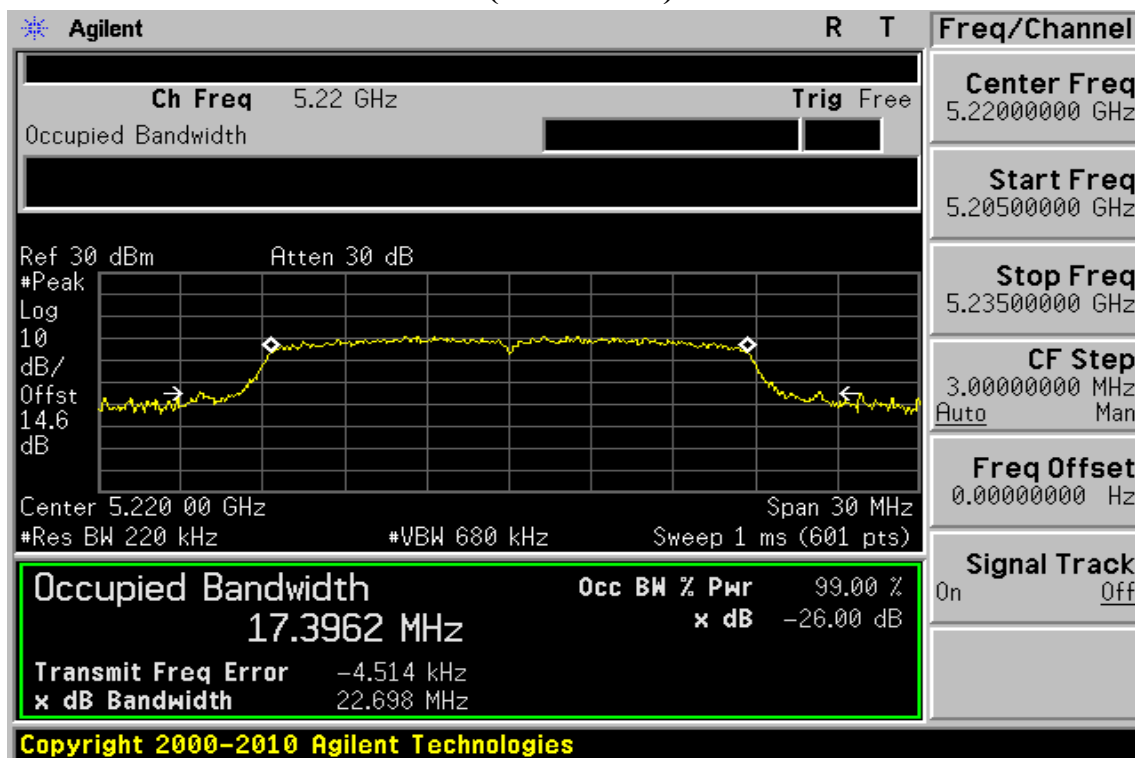
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## 802.11n HT20, 5150~5250 MHz (Main)

## 26dB Band Width Test Data CH-Low (5180 MHz)



## 26dB Band Width Test Data CH-Mid (5220 MHz)



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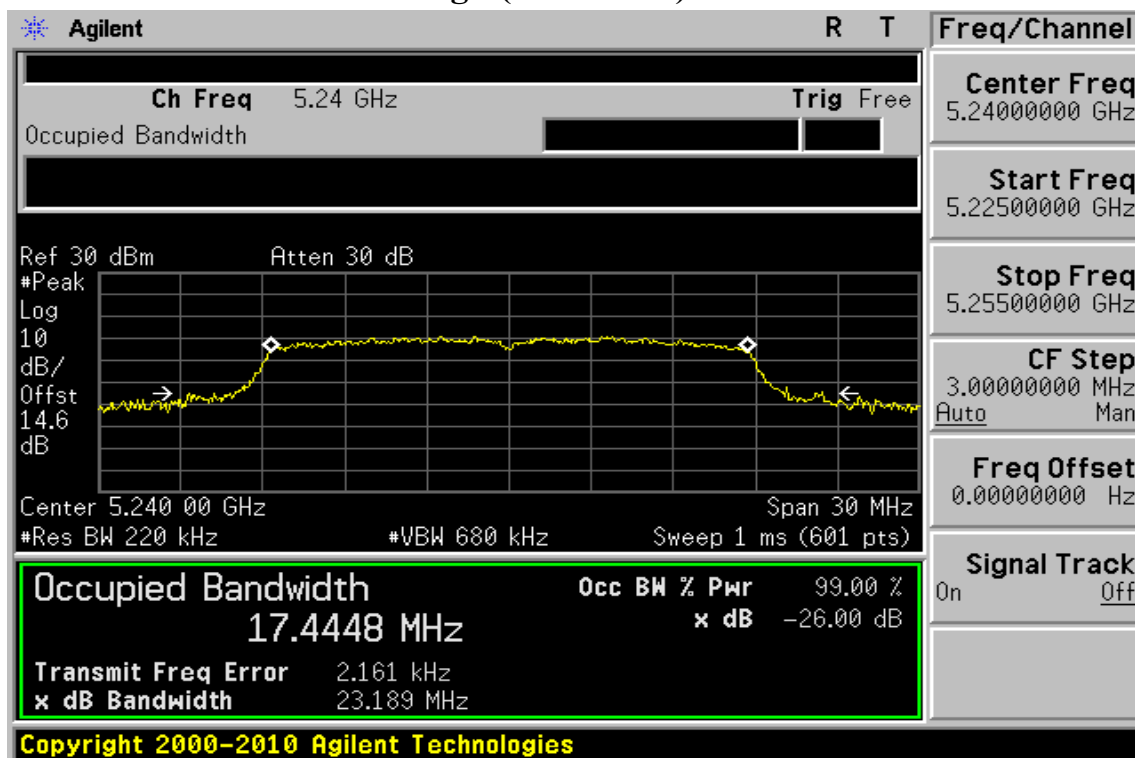
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## 26dB Band Width Test Data CH-High (5240 MHz)



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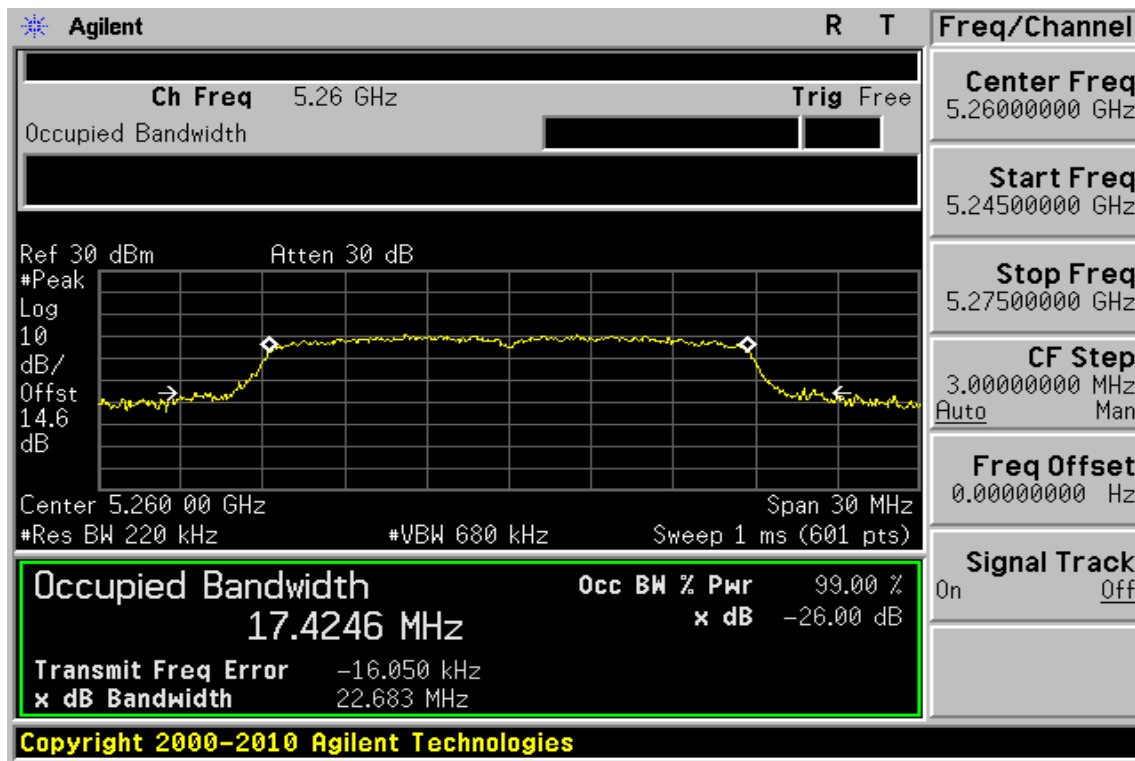
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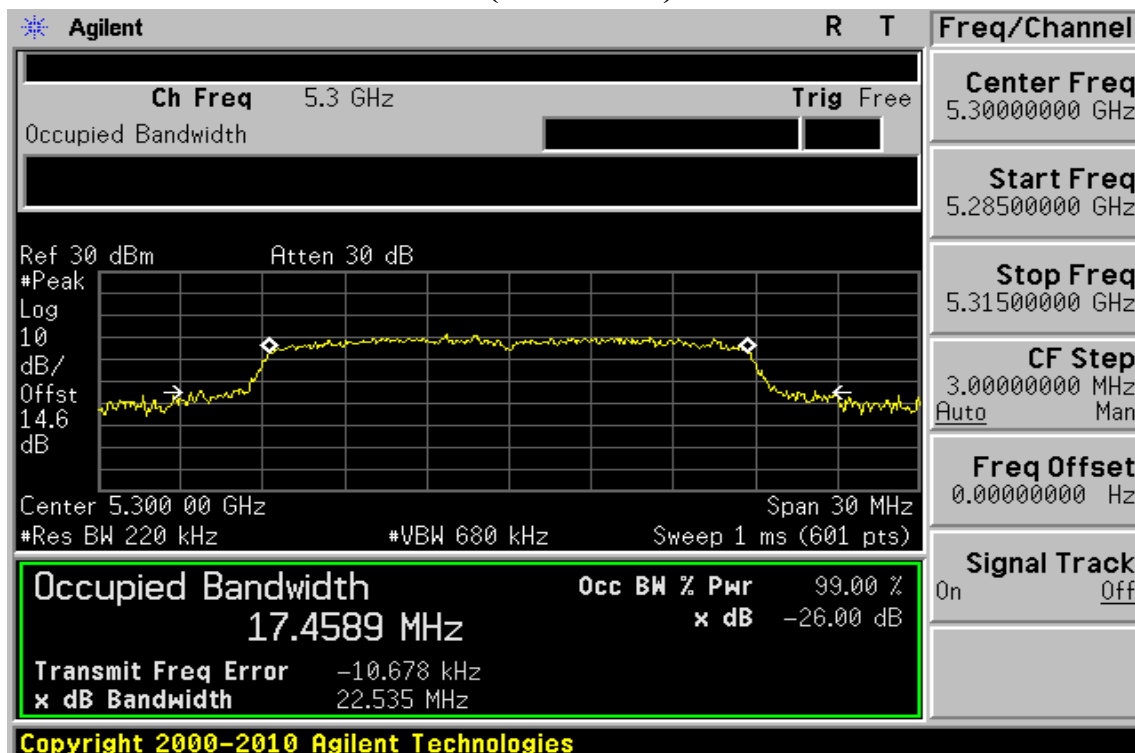
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## 802.11n HT20, 5250~5350 MHz (Main)

### 26dB Band Width Test Data CH-Low (5260 MHz)



### 26dB Band Width Test Data CH-Mid (5300 MHz)



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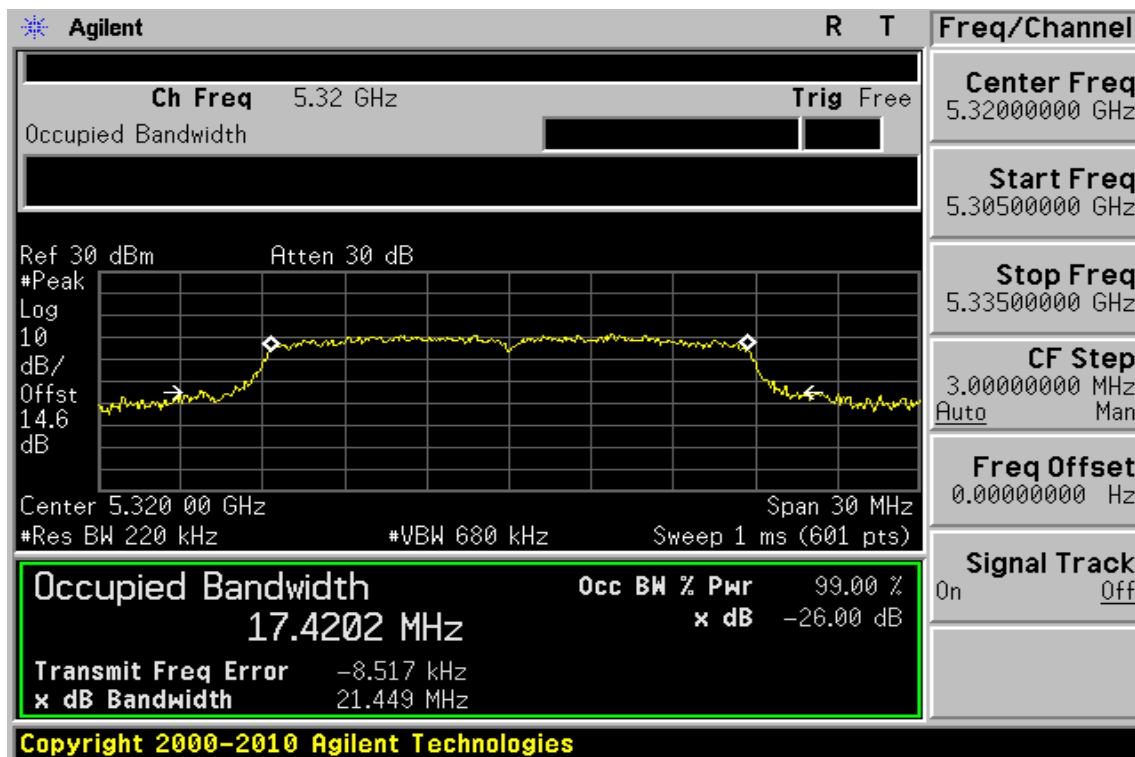
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## 26dB Band Width Test Data CH-High (5320 MHz)



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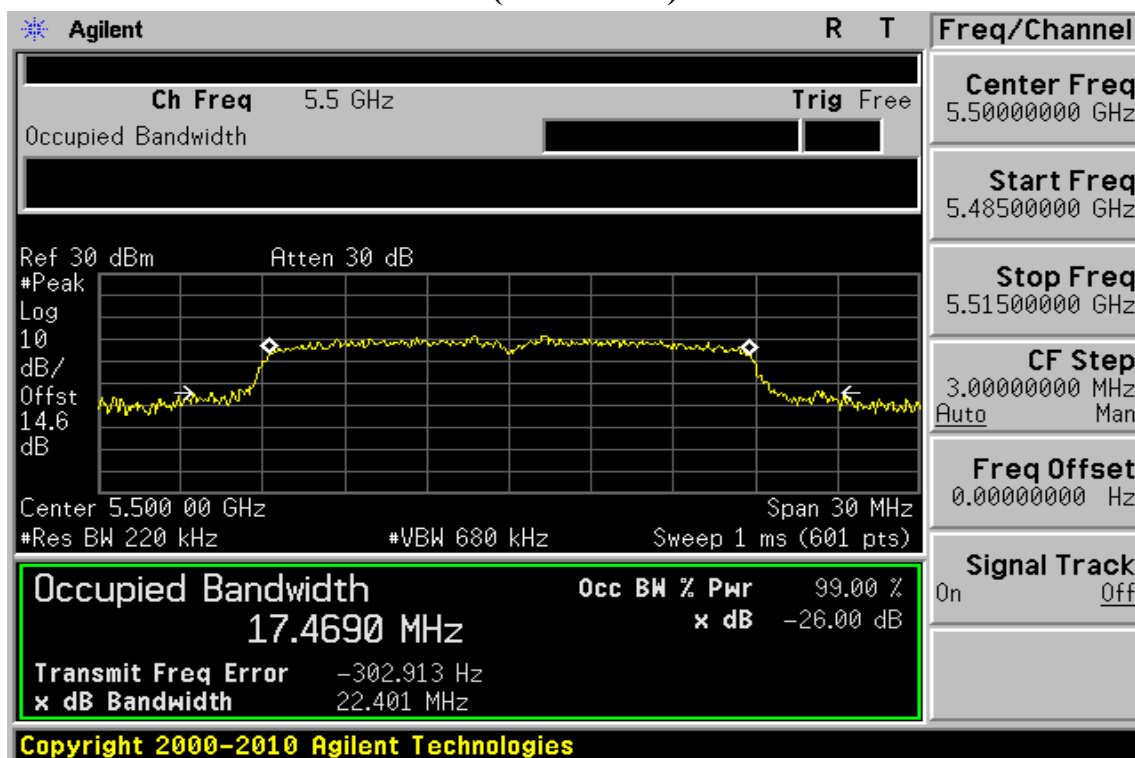
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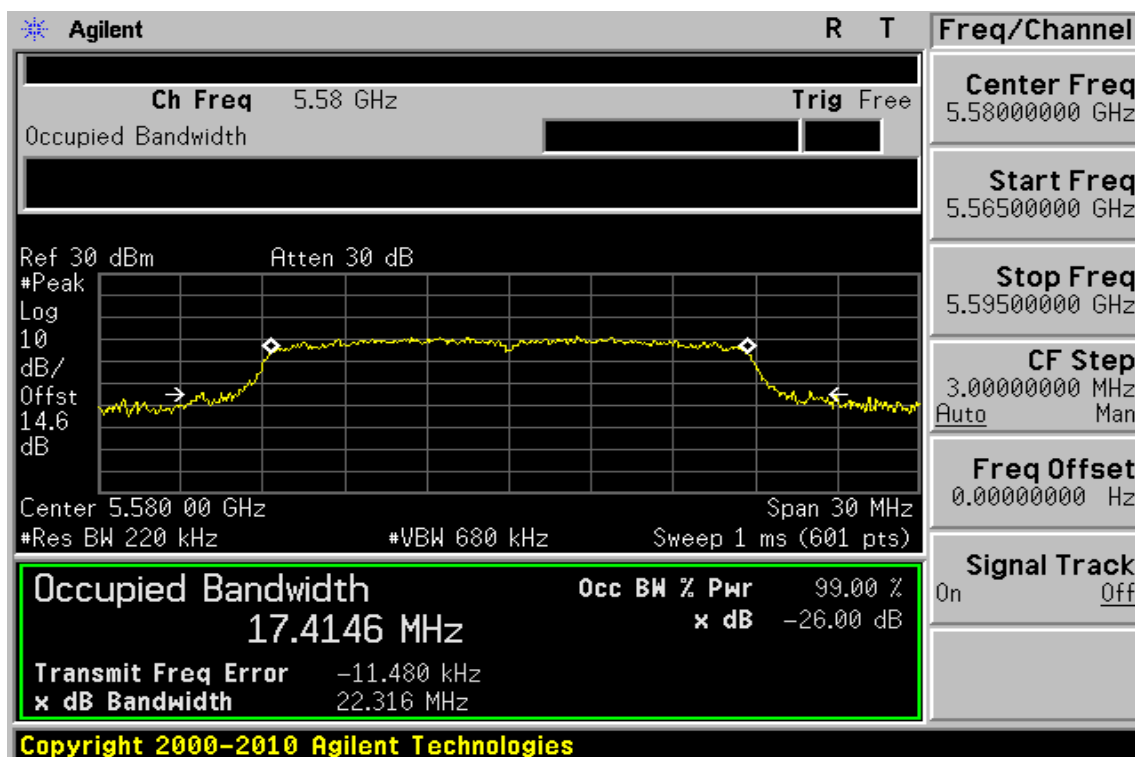
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### 802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



### 26dB Band Width Test Data CH-Mid (5580 MHz)



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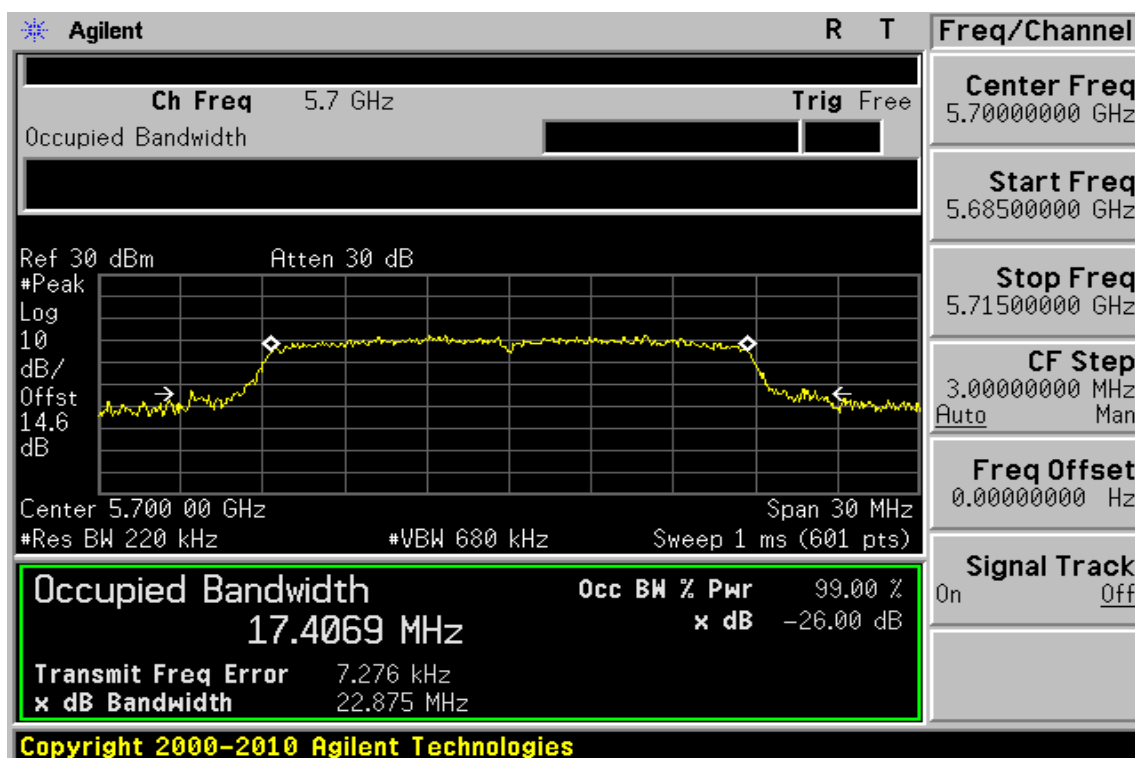
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## 26dB Band Width Test Data CH-High (5700 MHz)



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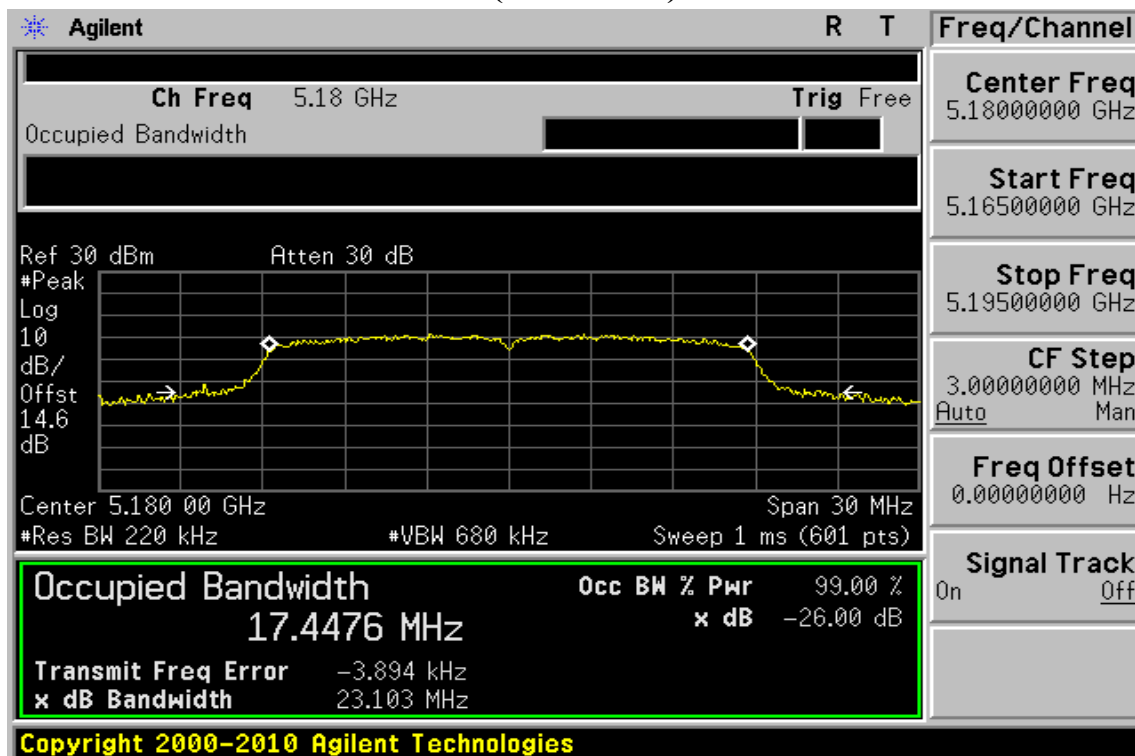
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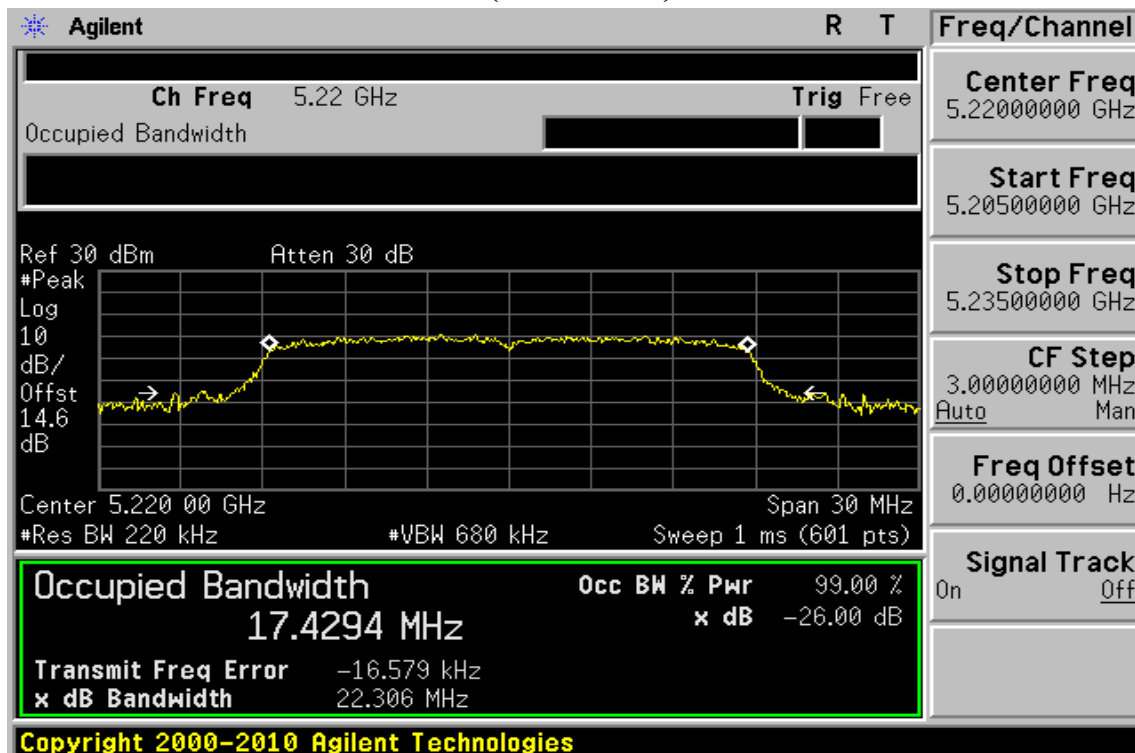
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## 802.11n HT20, 5150~5250 MHz (Aux)

## 26dB Band Width Test Data CH-Low (5180 MHz)



## 26dB Band Width Test Data CH-Mid (5220 MHz)



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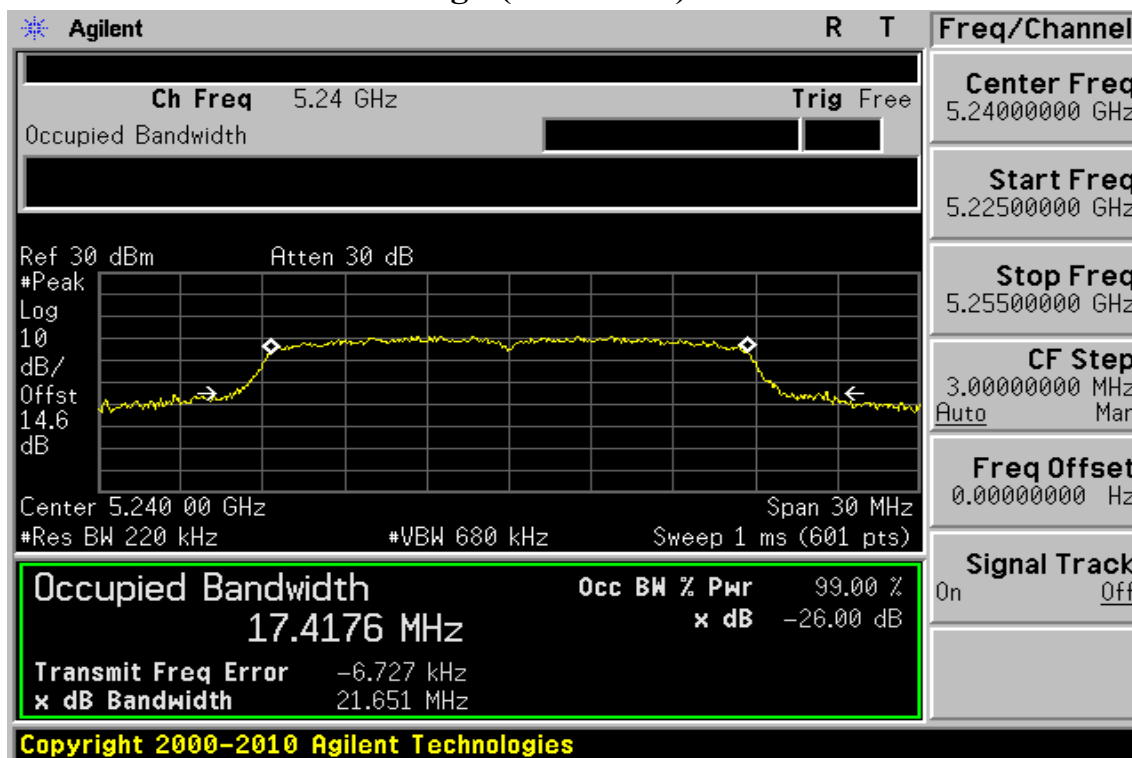
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## 26dB Band Width Test Data CH-High (5240 MHz)



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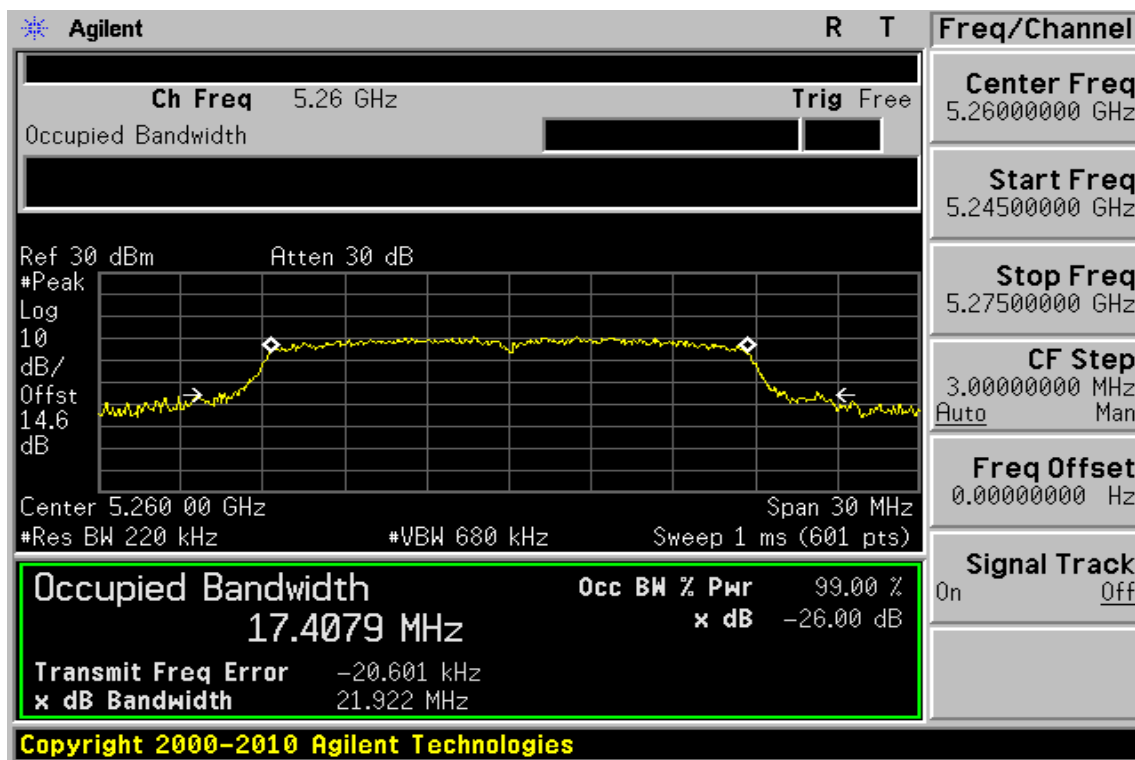
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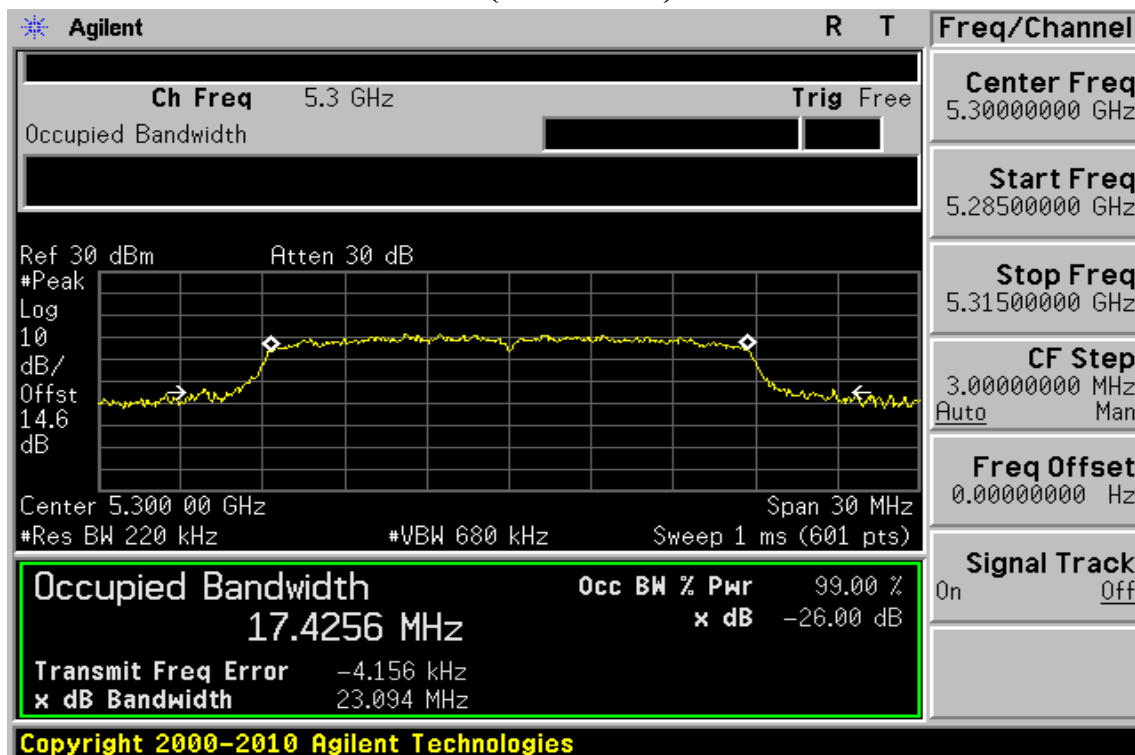
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## 802.11n HT20, 5250~5350 MHz (Aux)

## 26dB Band Width Test Data CH-Low (5260 MHz)



## 26dB Band Width Test Data CH-Mid (5300 MHz)



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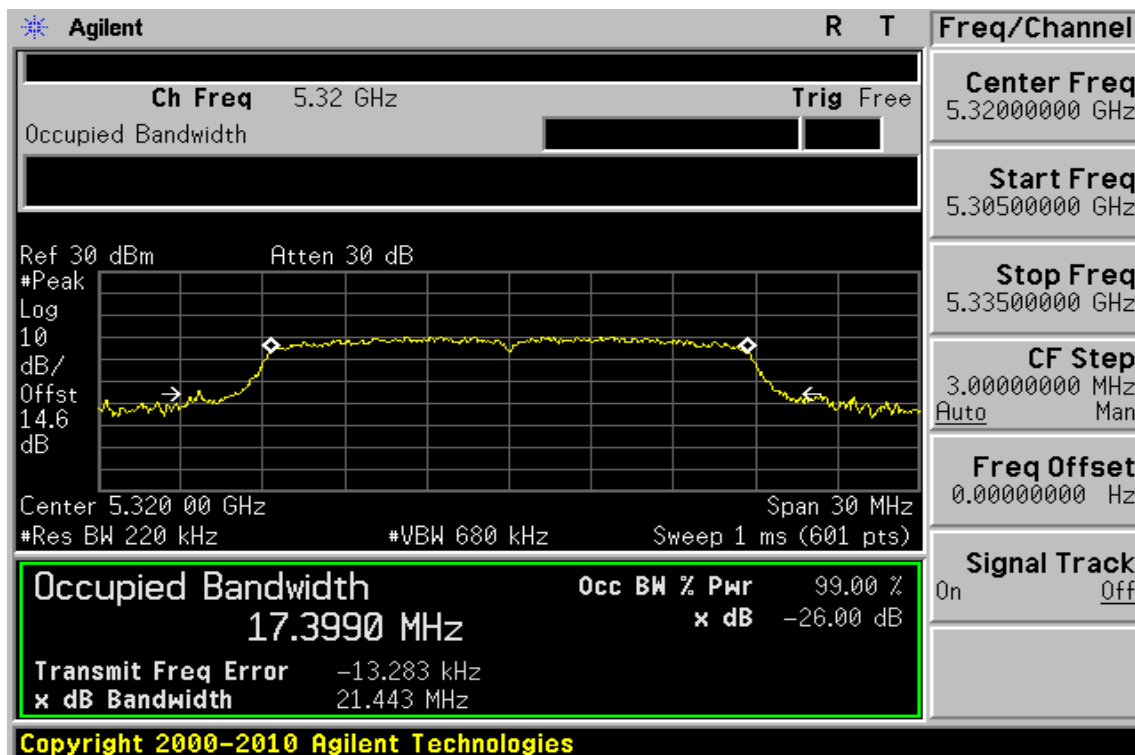
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## 26dB Band Width Test Data CH-High (5320 MHz)



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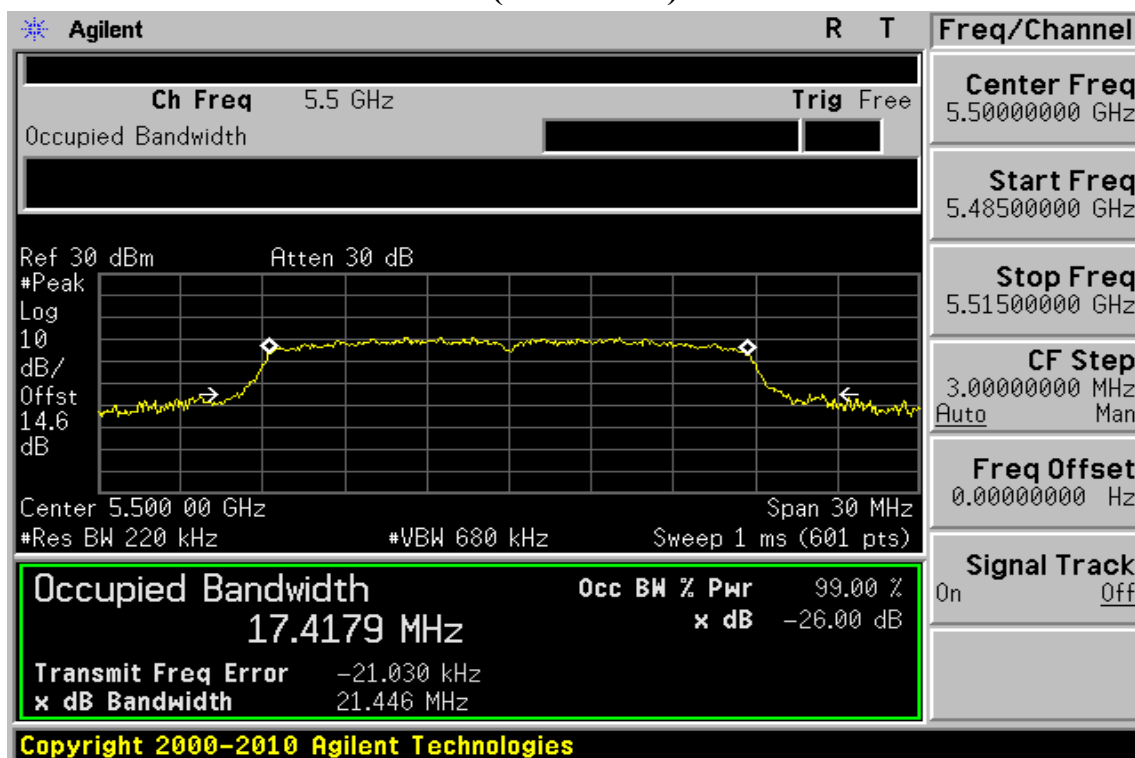
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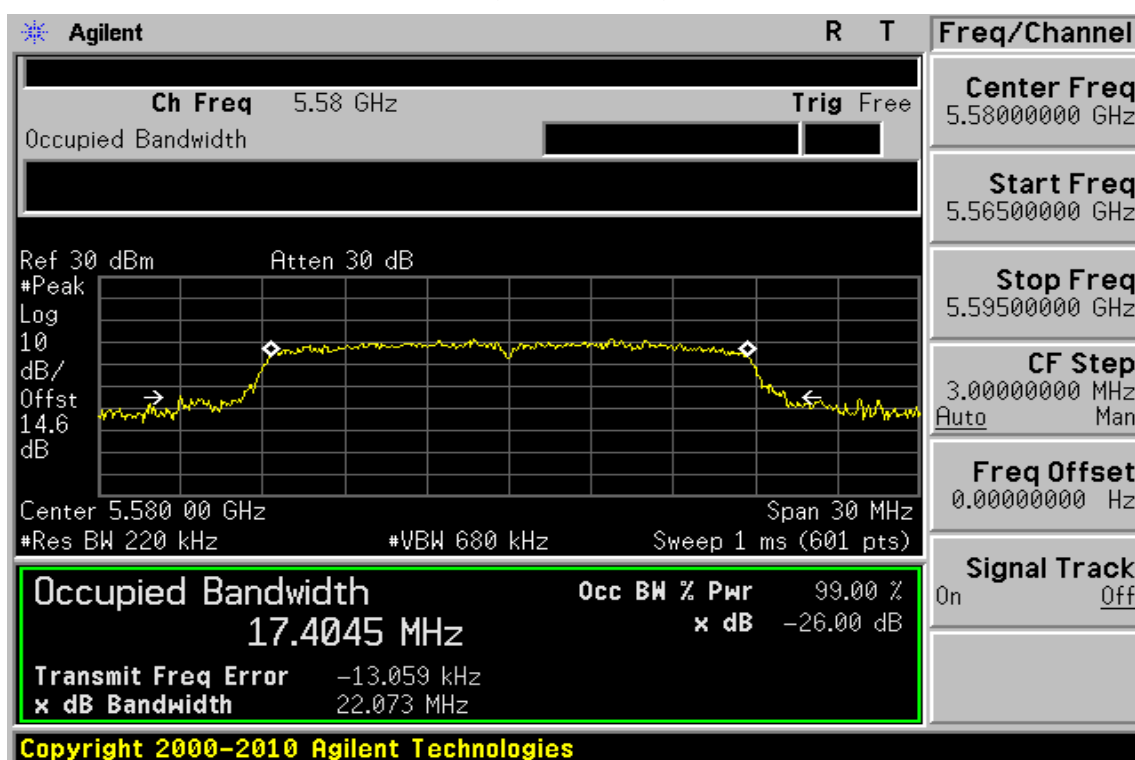
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## 802.11n HT20, 5470~5725 MHz (Aux)

## 26dB Band Width Test Data CH-Low (5500 MHz)



## 26dB Band Width Test Data CH-Mid (5580 MHz)



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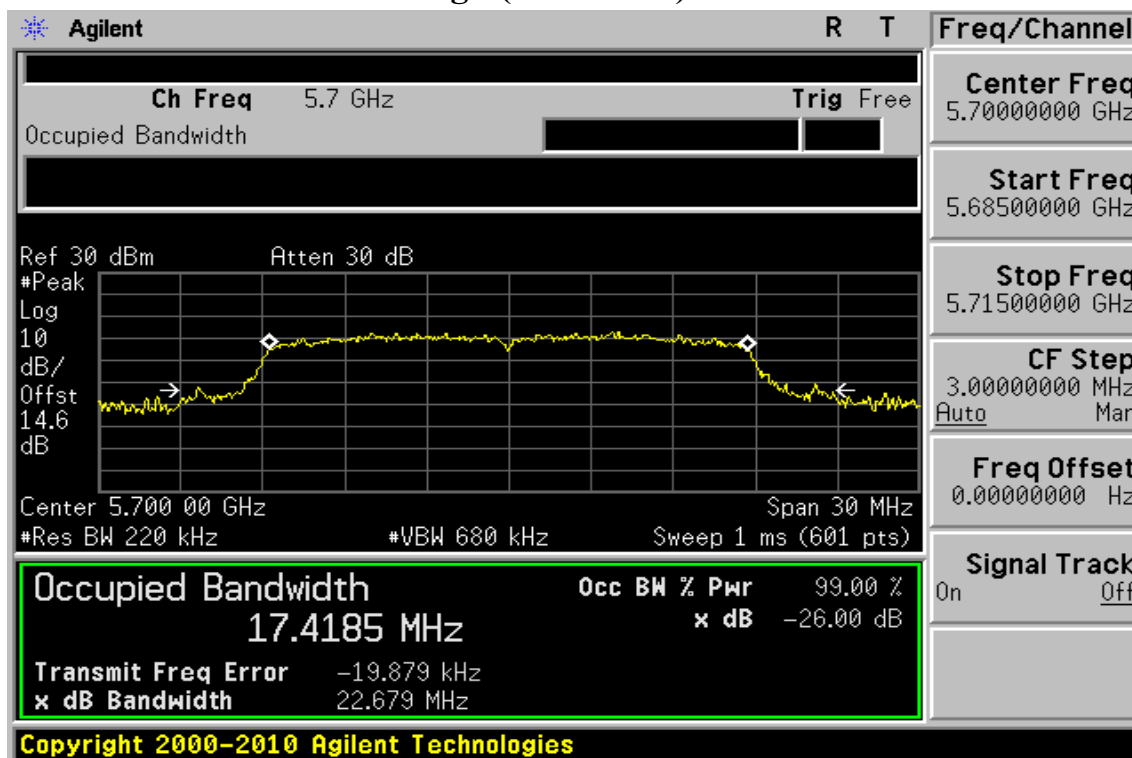
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## 26dB Band Width Test Data CH-High (5700 MHz)



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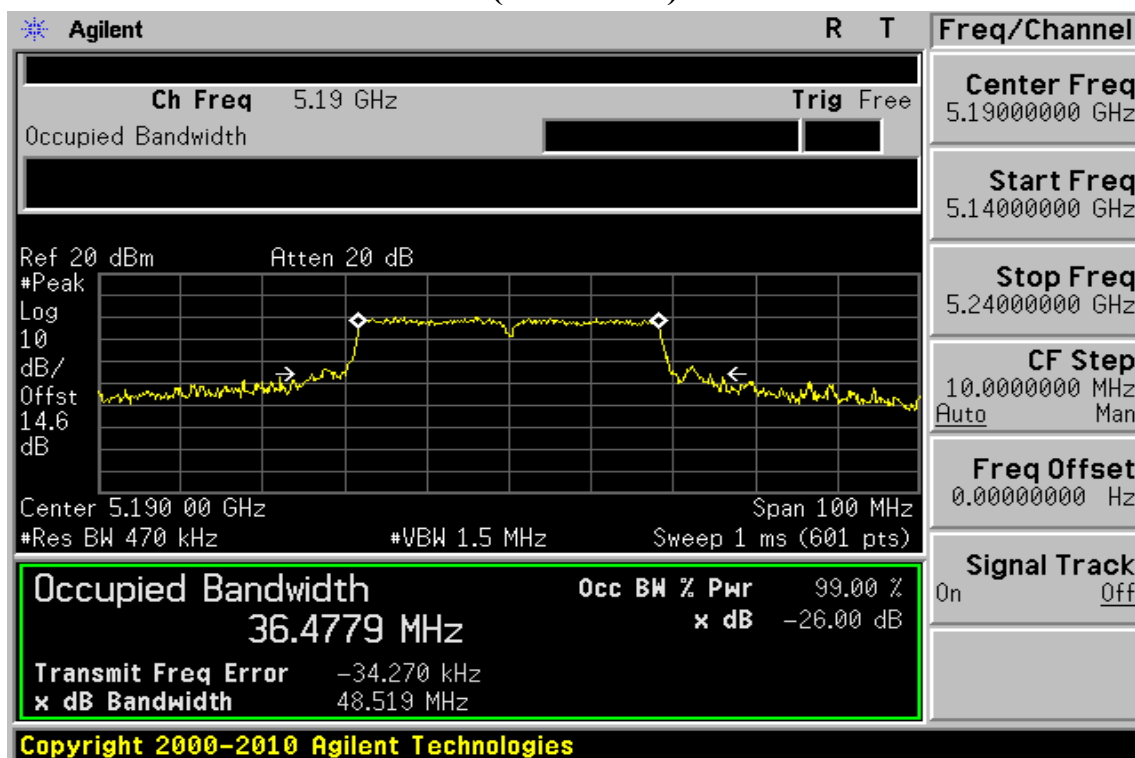
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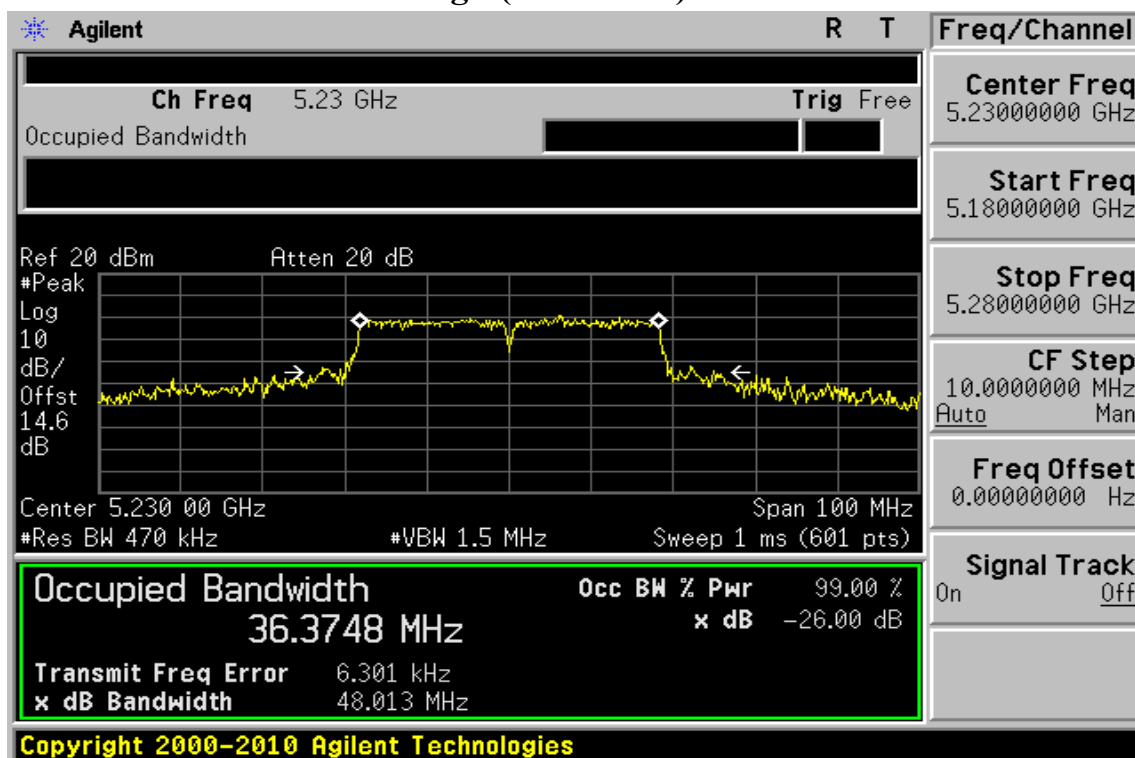
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## 802.11n HT40, 5150~5250 MHz (Main)

## 26dB Band Width Test Data CH-Low (5190 MHz)



## 26dB Band Width Test Data CH-High (5230 MHz)



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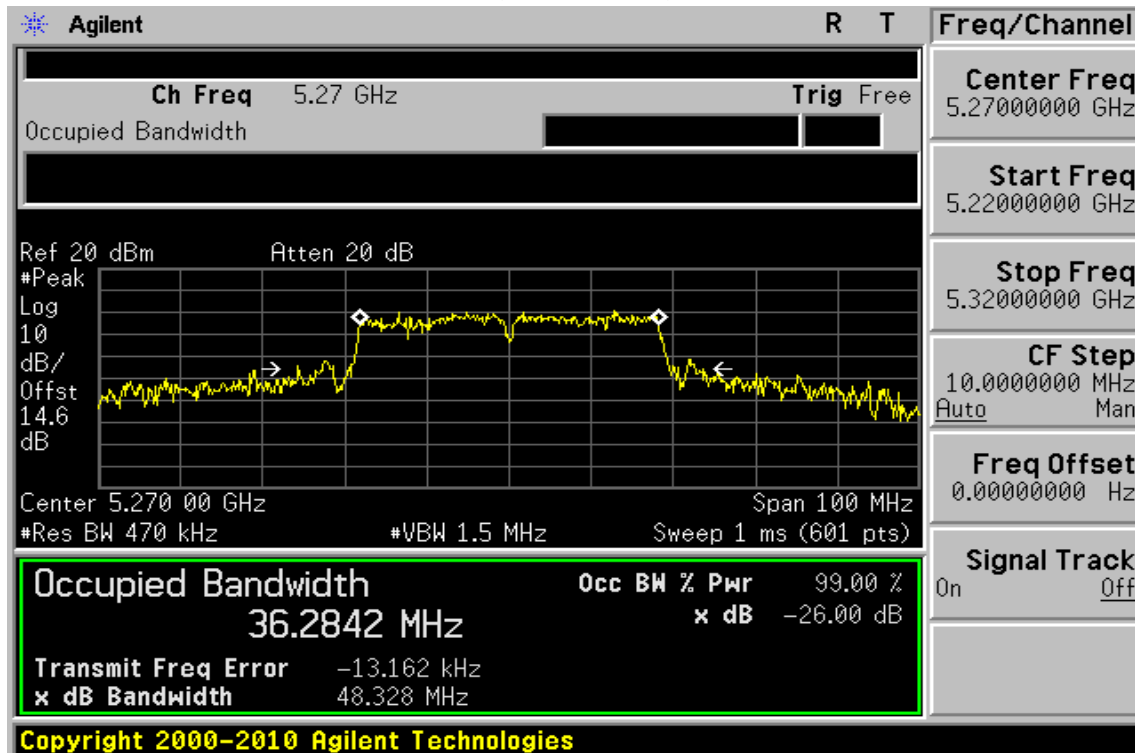
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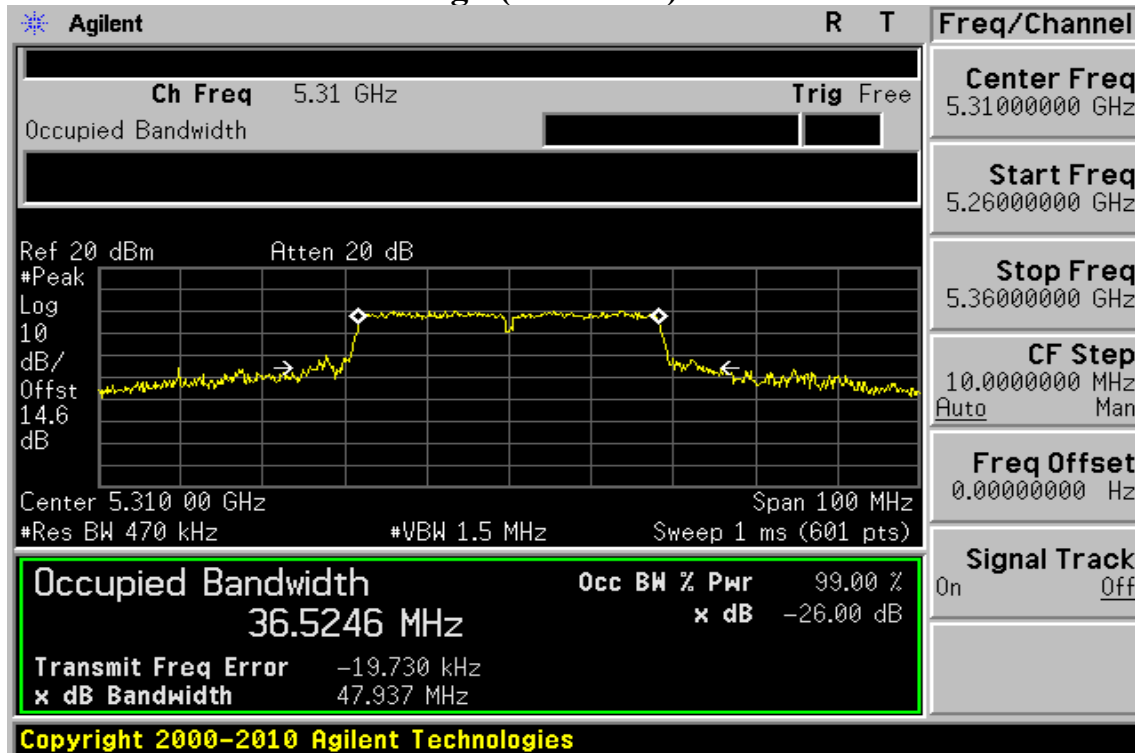
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## 802.11n HT40, 5250~5350 MHz (Main)

## 26dB Band Width Test Data CH-Low (5270 MHz)



## 26dB Band Width Test Data CH-High (5310MHz)



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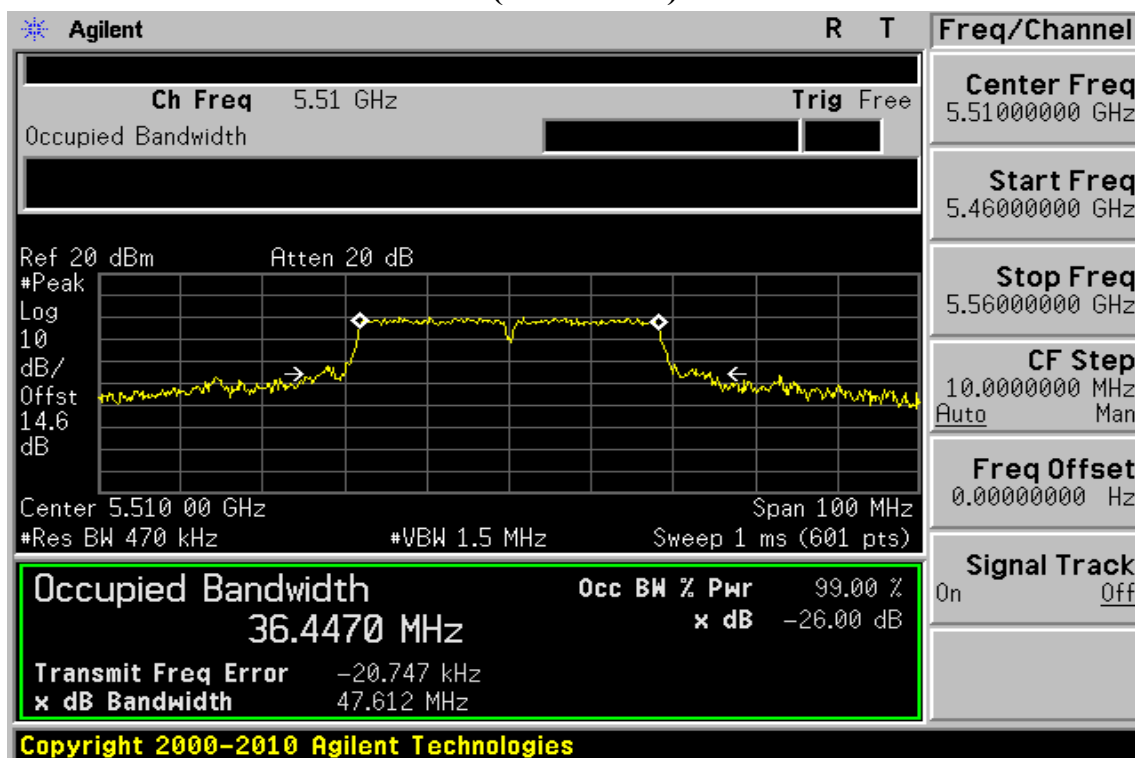
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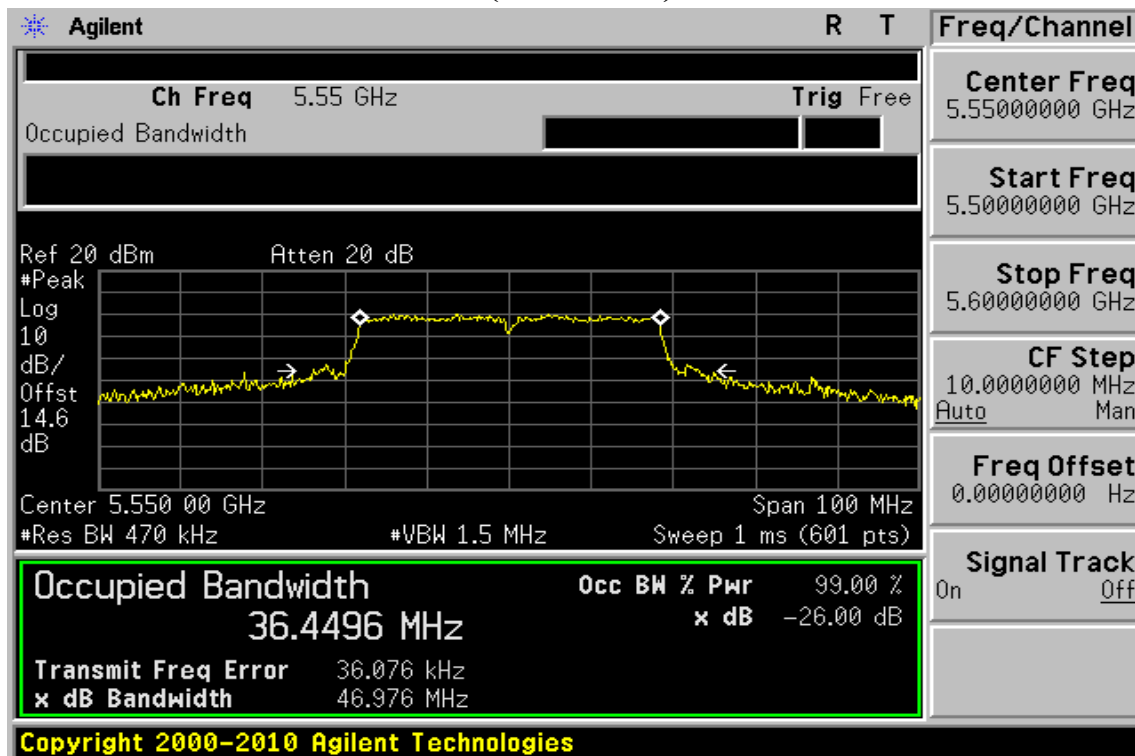
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## 802.11n HT40, 5470~5725 MHz (Main)

## 26dB Band Width Test Data CH-Low (5510 MHz)



## 26dB Band Width Test Data CH-Mid (5550 MHz)



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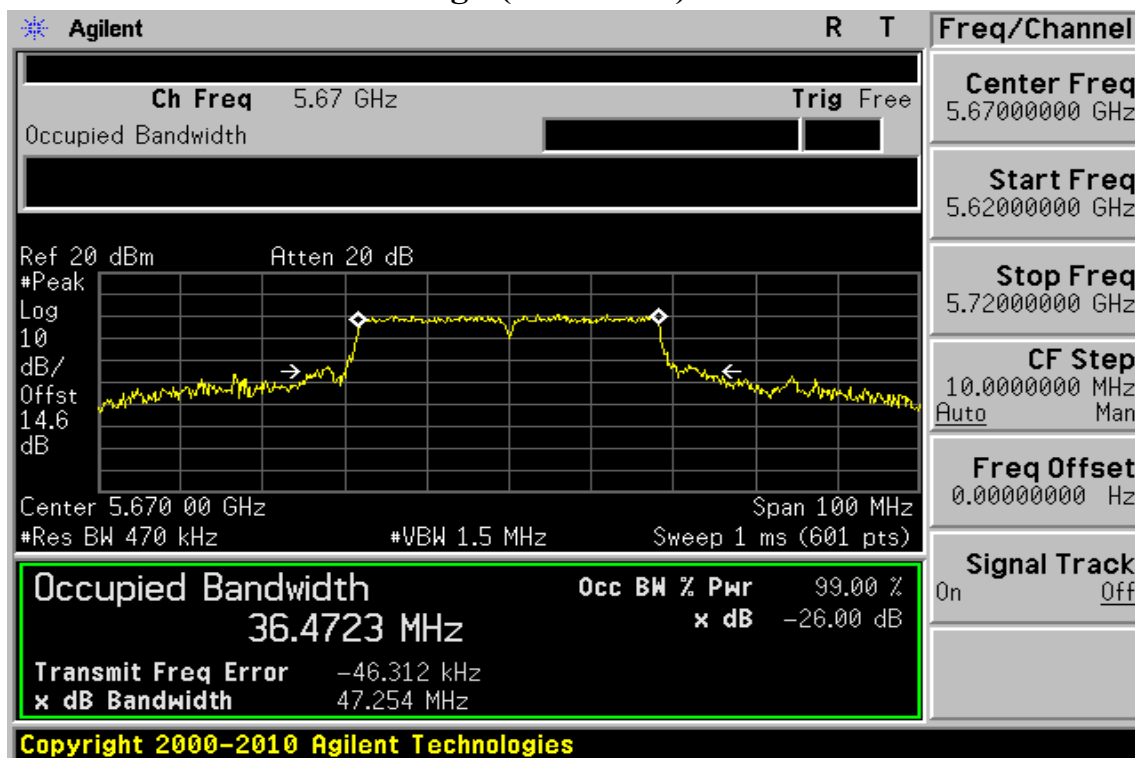
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## 26dB Band Width Test Data CH-High (5670 MHz)



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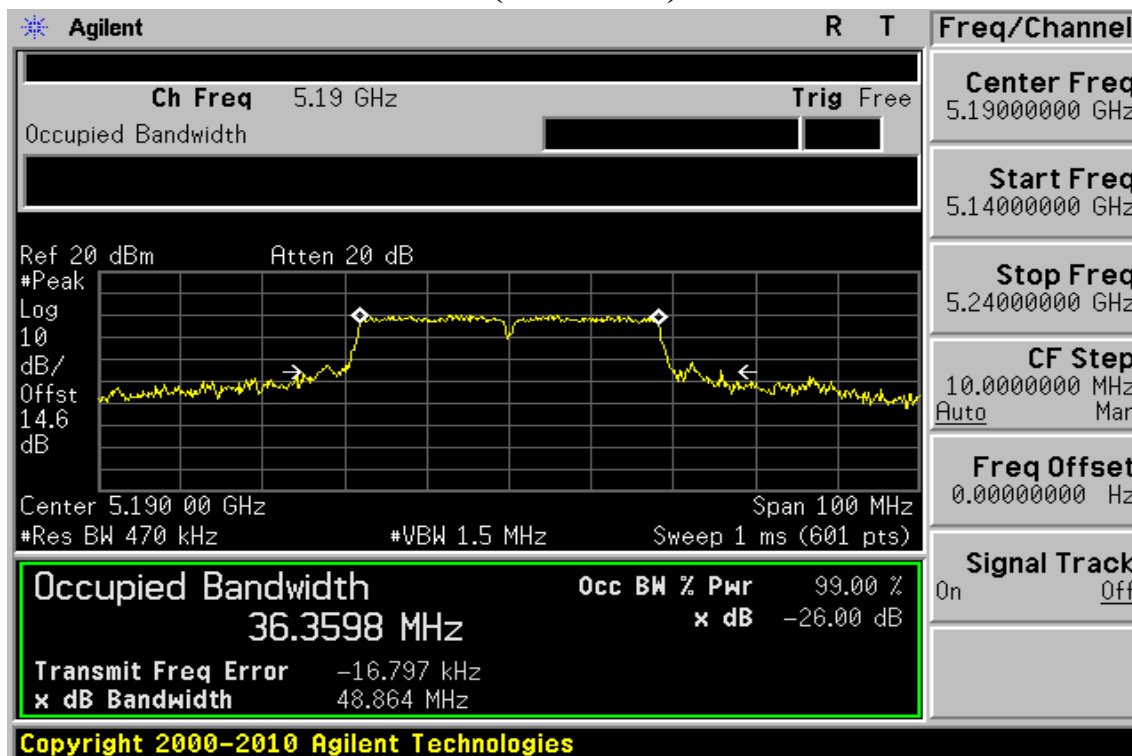
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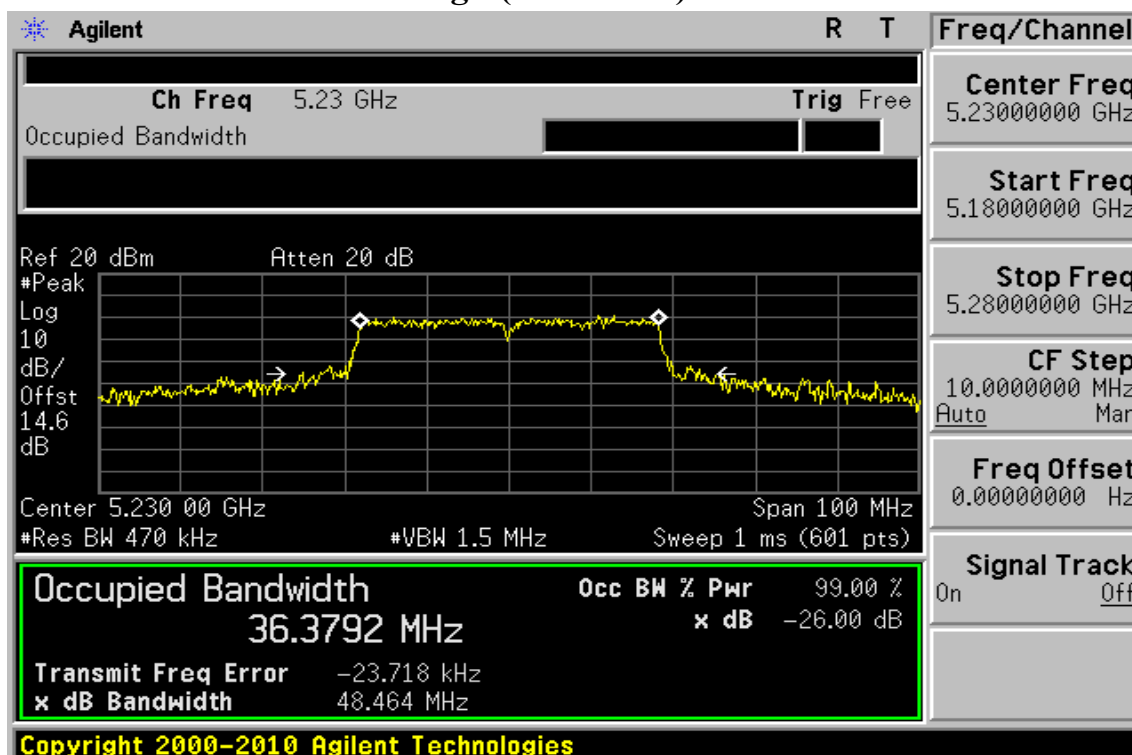
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## 802.11n HT40, 5150~5250 MHz (Aux)

## 26dB Band Width Test Data CH-Low (5190 MHz)



## 26dB Band Width Test Data CH-High (5230 MHz)



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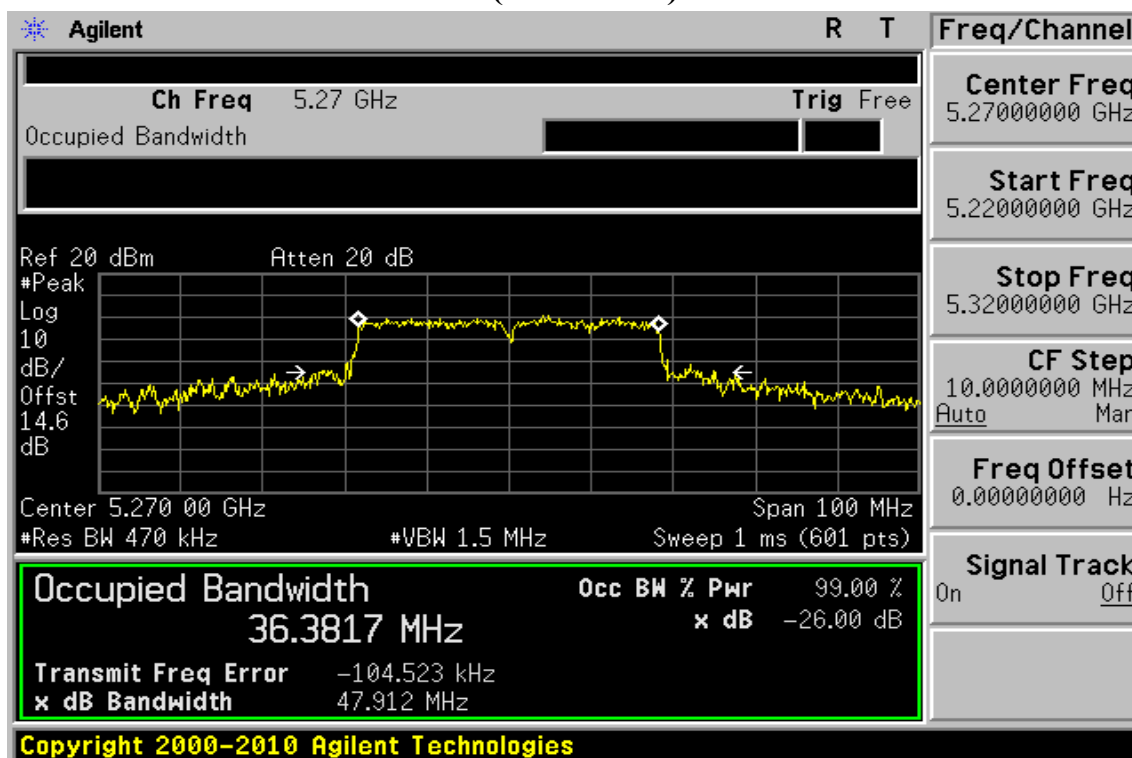
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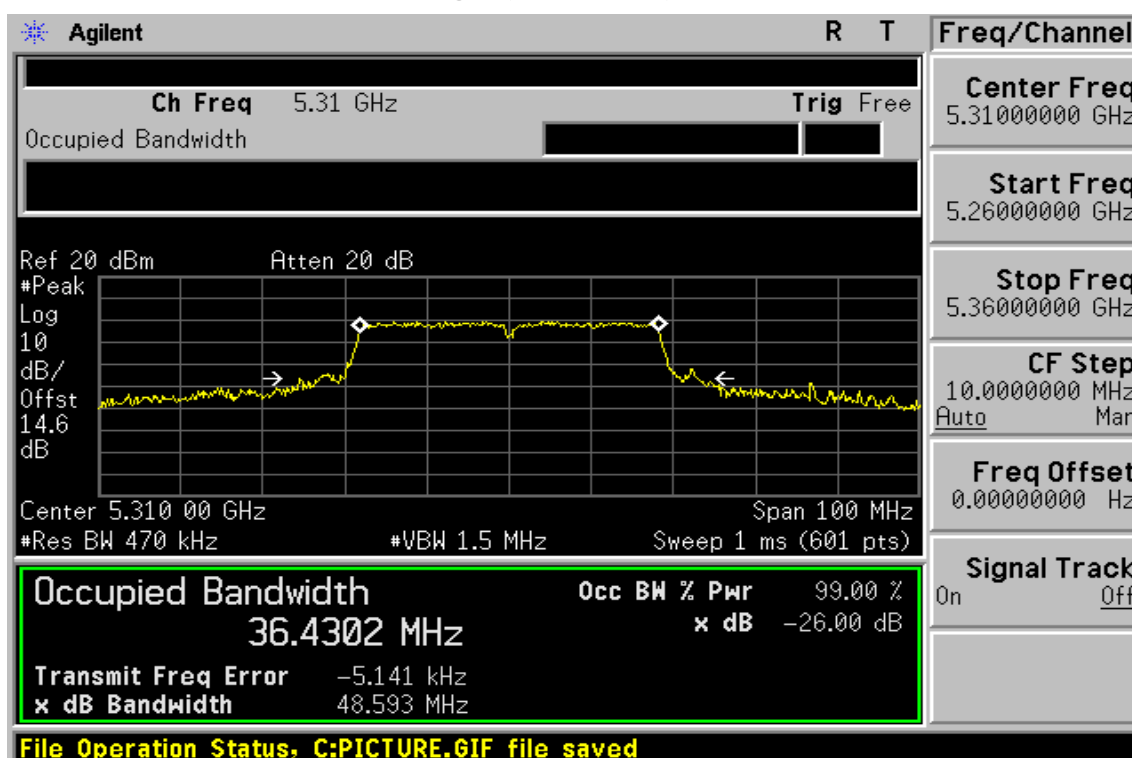
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## 802.11n HT40, 5250~5350 MHz (Aux)

### 26dB Band Width Test Data CH-Low (5270 MHz)



### 26dB Band Width Test Data CH-High (5310MHz)



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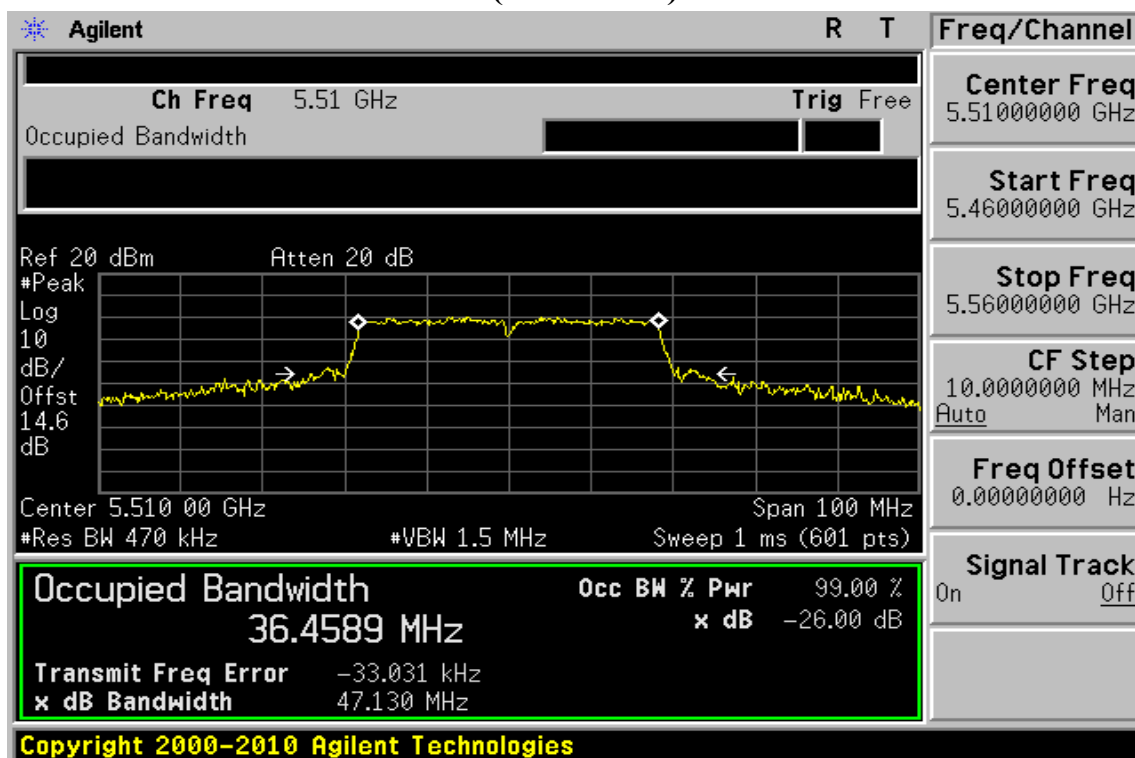
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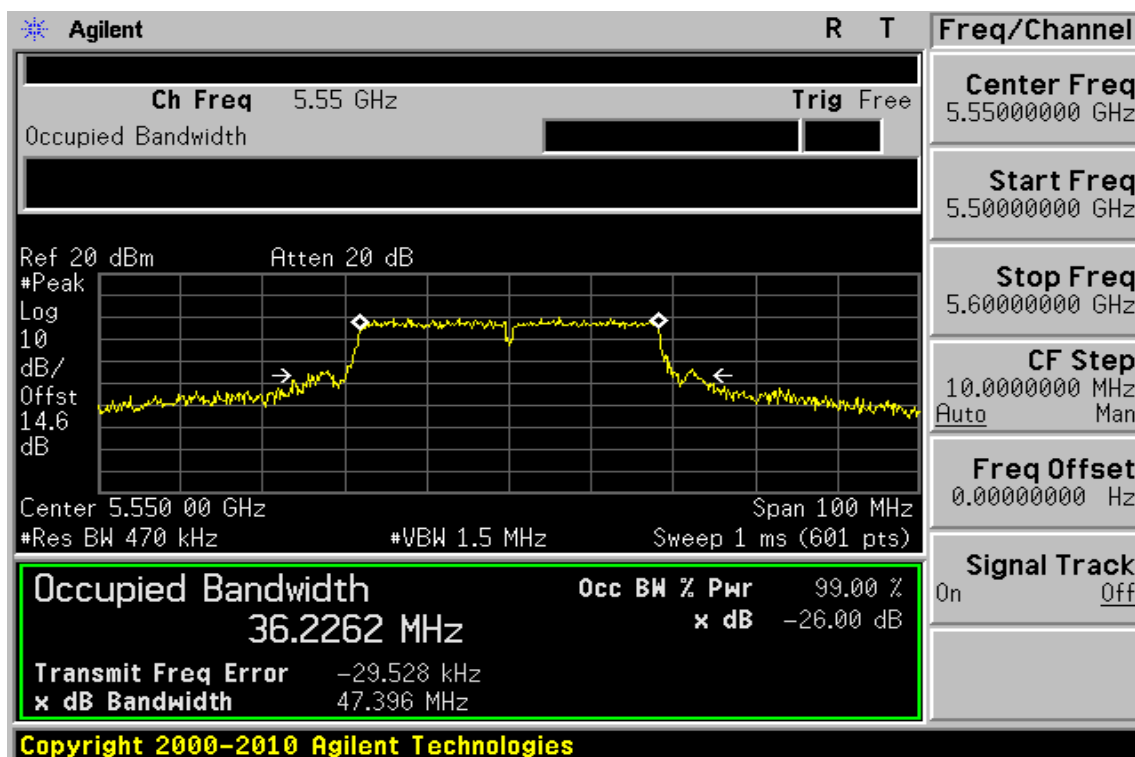
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## 802.11n HT40, 5470~5725 MHz (Aux)

## 26dB Band Width Test Data CH-Low (5510 MHz)



## 26dB Band Width Test Data CH-Mid (5550 MHz)



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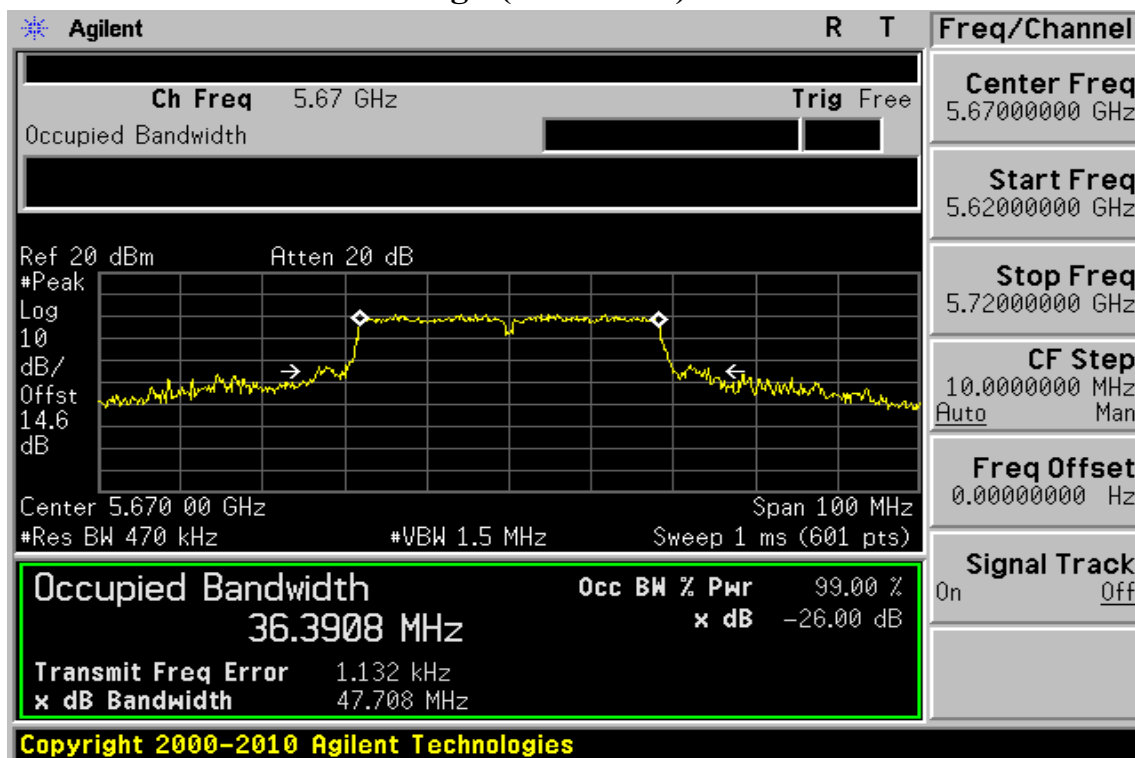
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## 26dB Band Width Test Data CH-High (5670 MHz)



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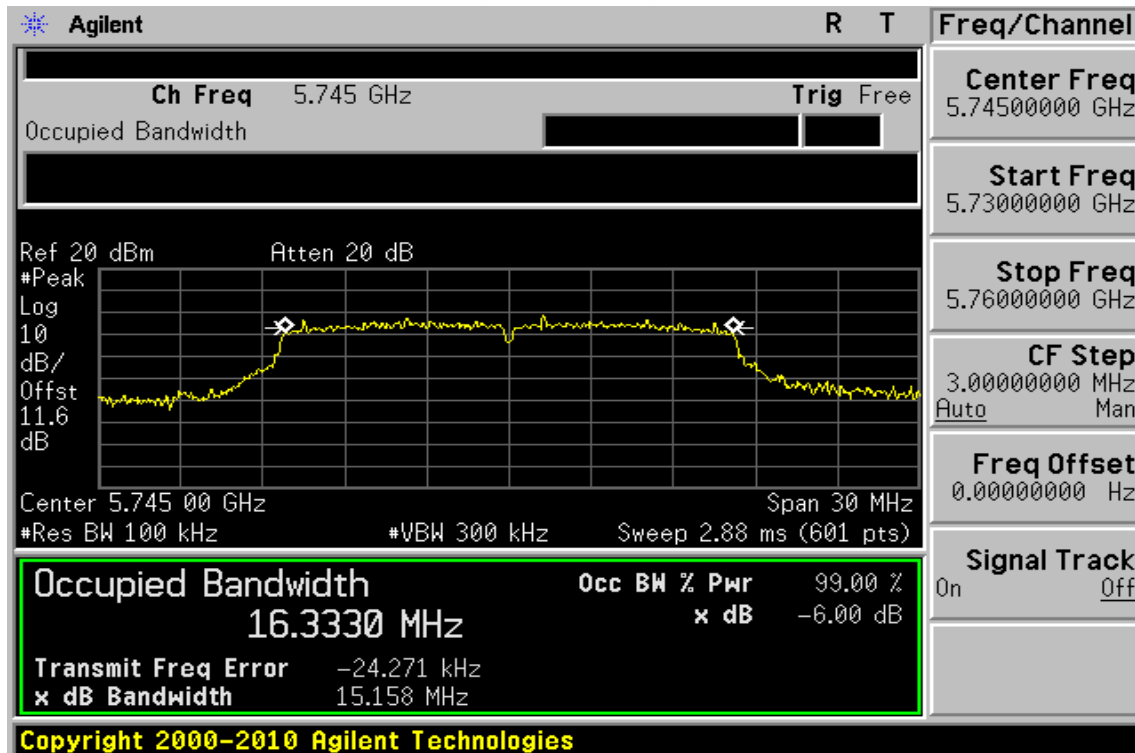
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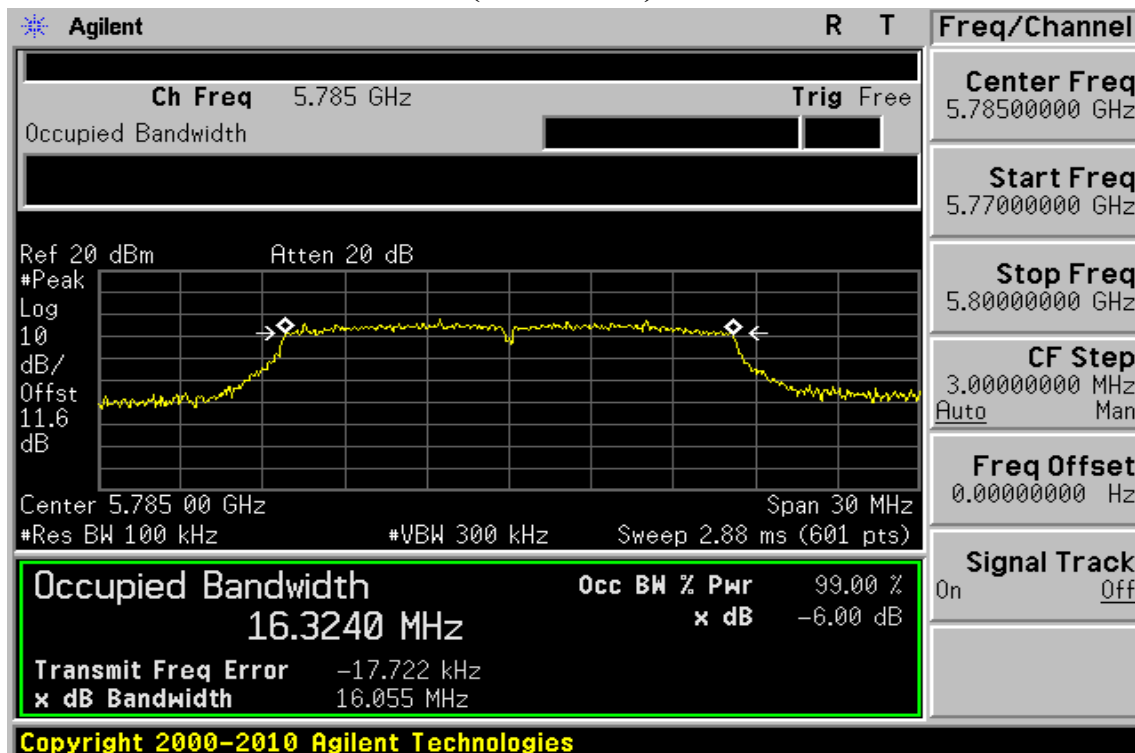
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## 802.11a, 5725~5850 MHz

## 6dB Band Width Test Data CH-Low (5745 MHz)



## 6dB Band Width Test Data CH-Mid (5785 MHz)



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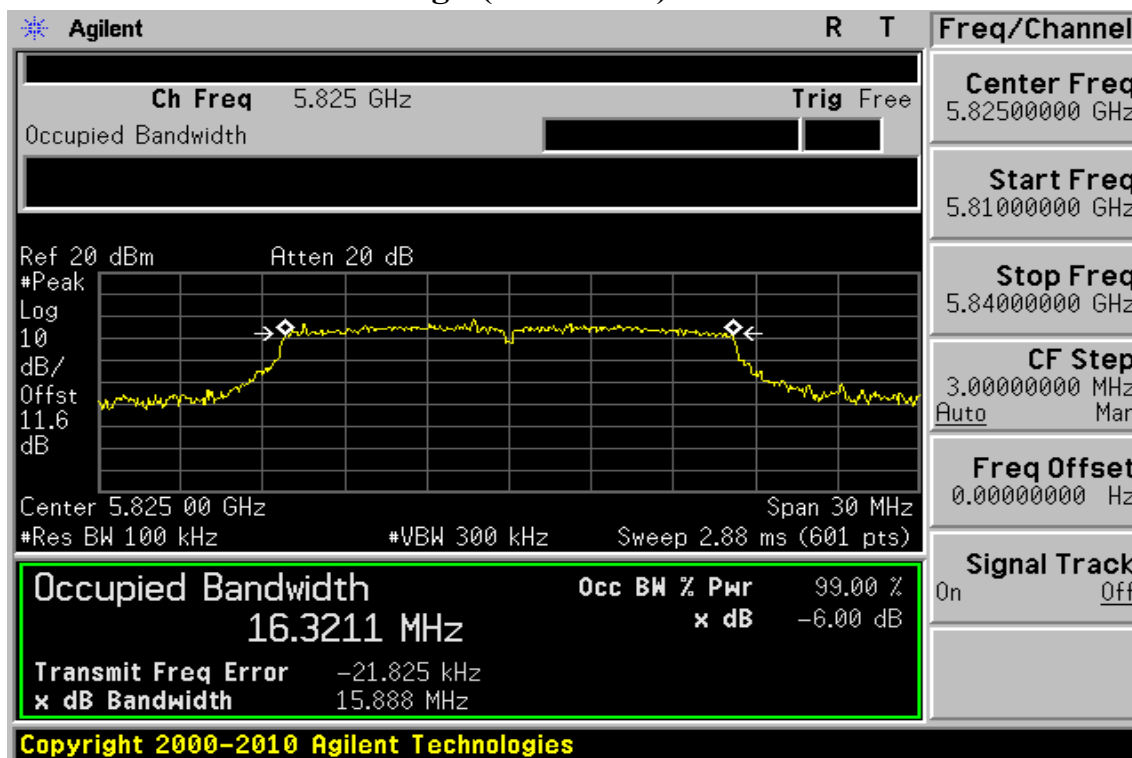
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## 6dB Band Width Test Data CH-High (5825 MHz)



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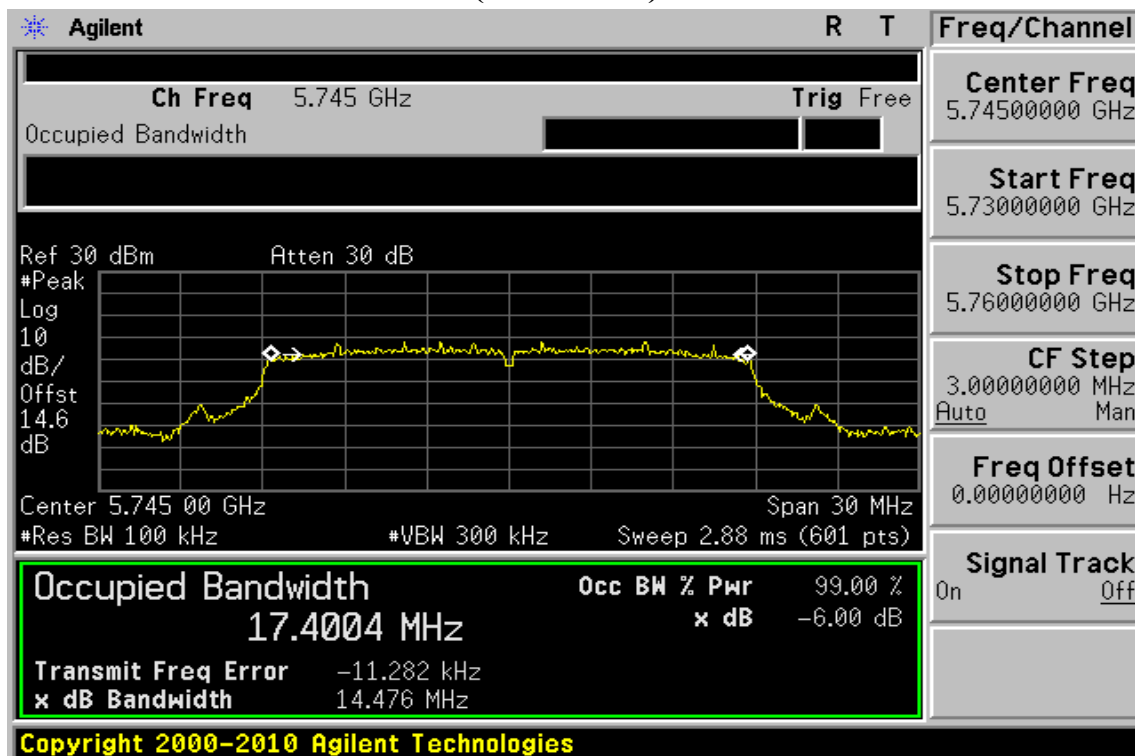
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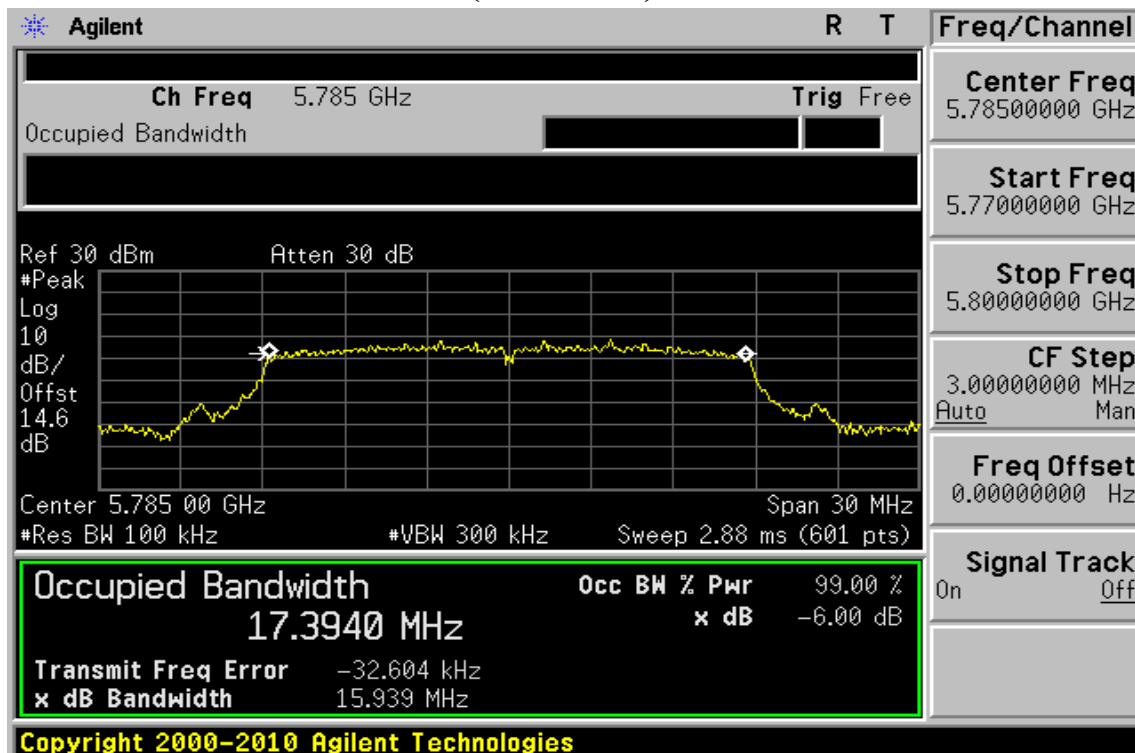
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### 802.11n HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



### 6dB Band Width Test Data CH-Mid (5785 MHz)



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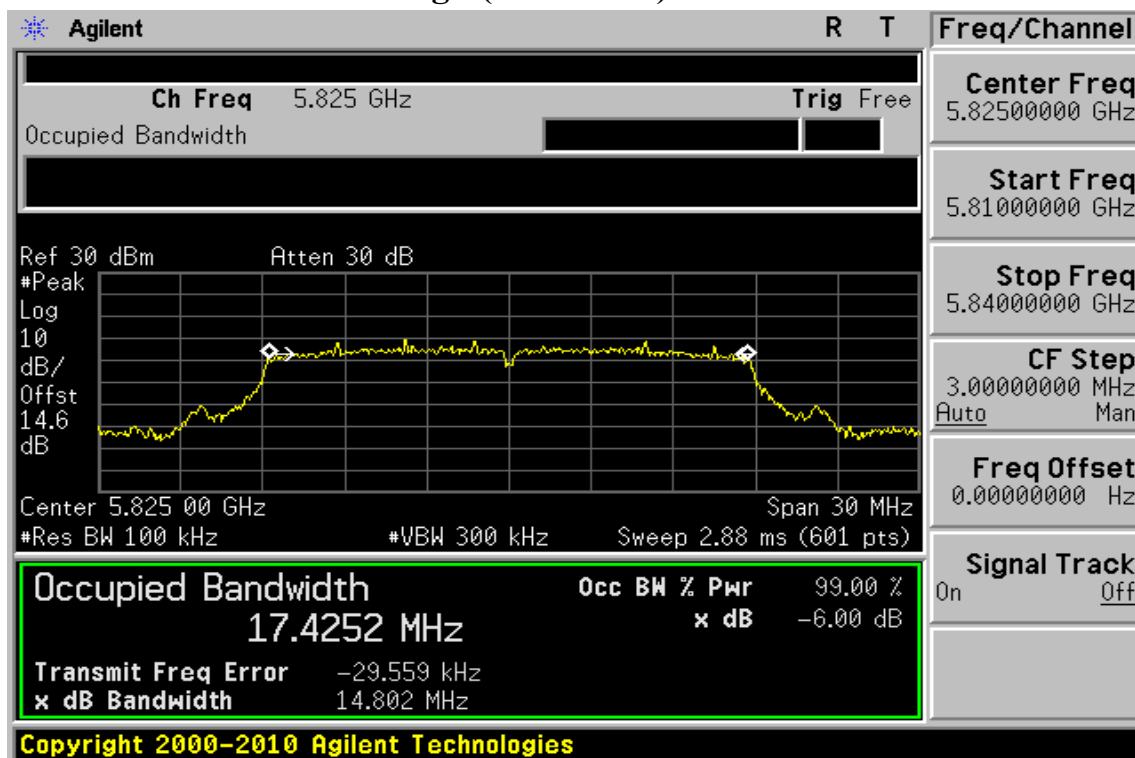
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## 6dB Band Width Test Data CH-High (5825 MHz)



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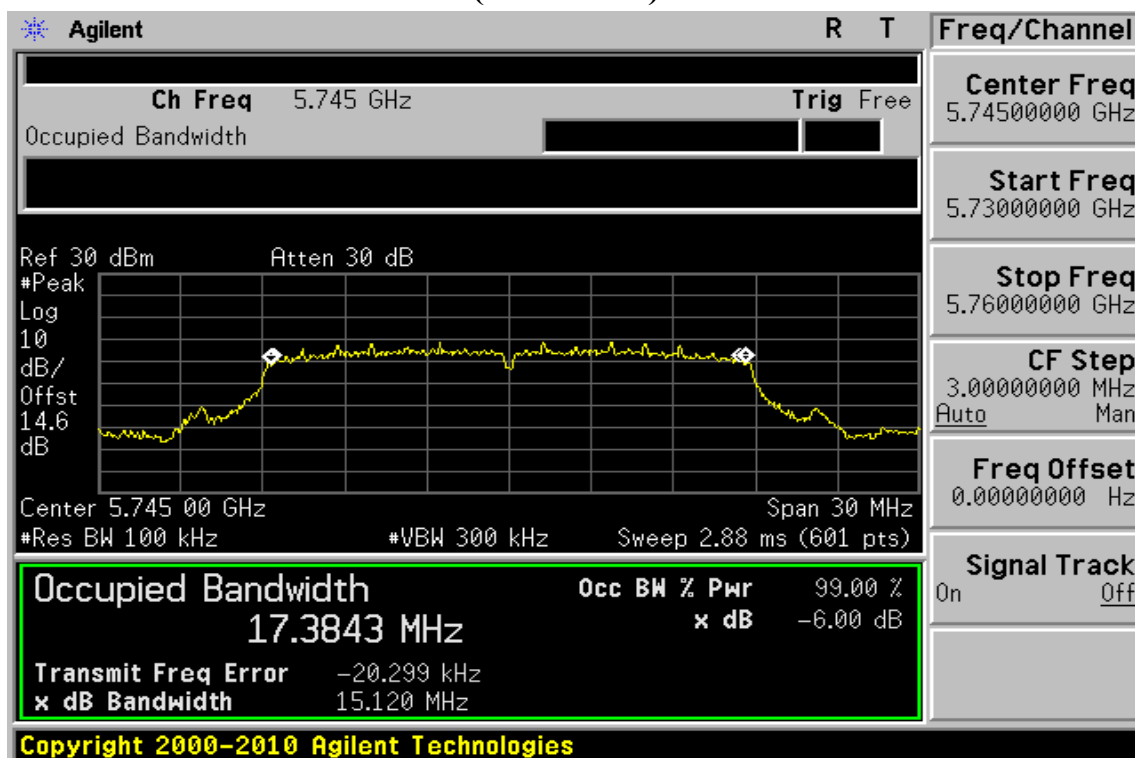
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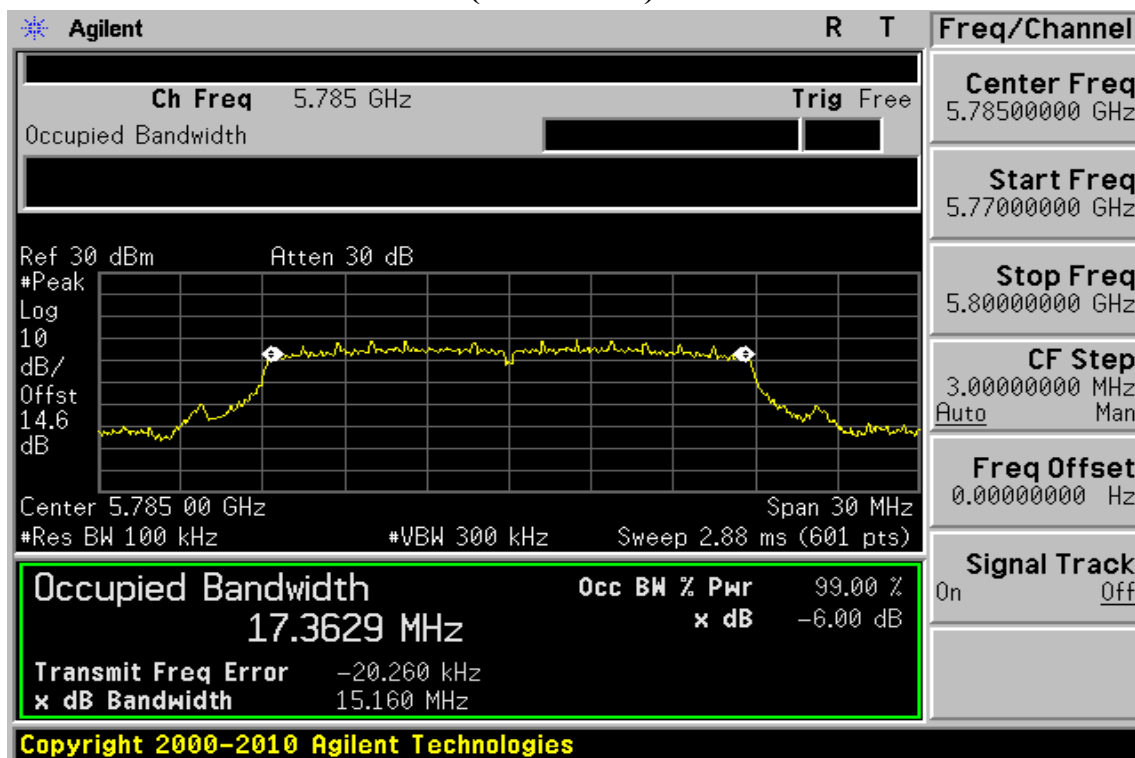
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802.11n HT20, 5725~5850 MHz (Aux)  
6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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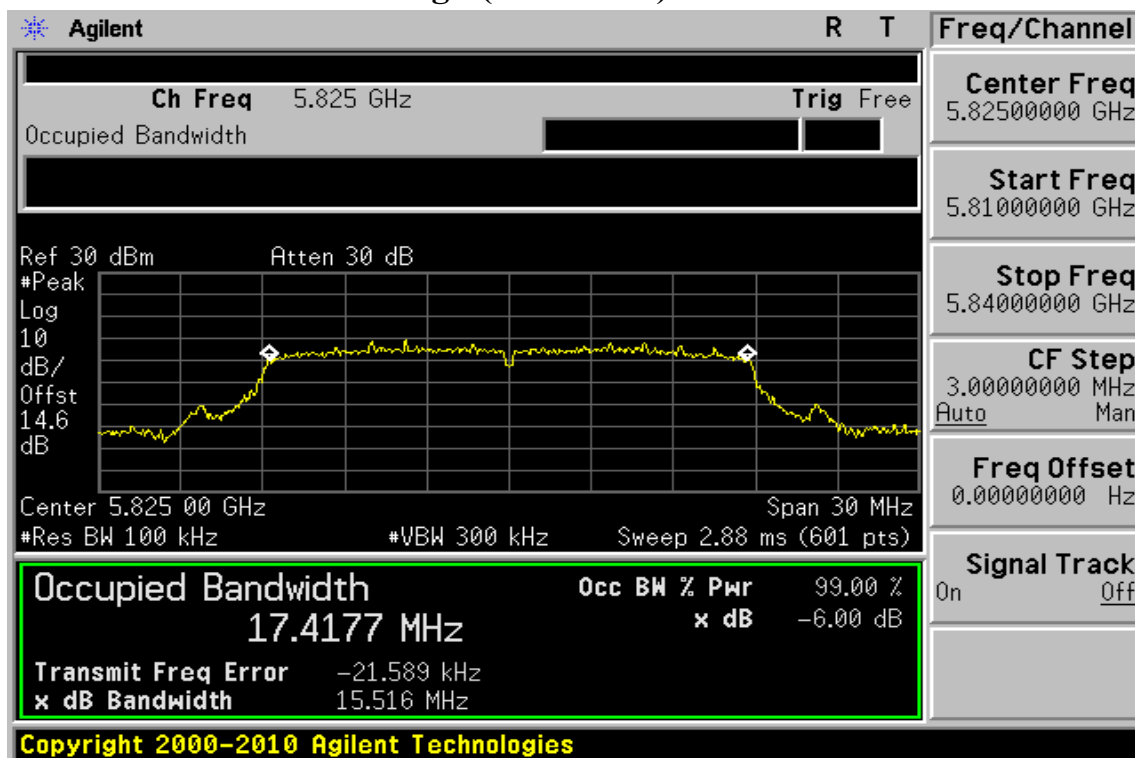
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## 6dB Band Width Test Data CH-High (5825 MHz)



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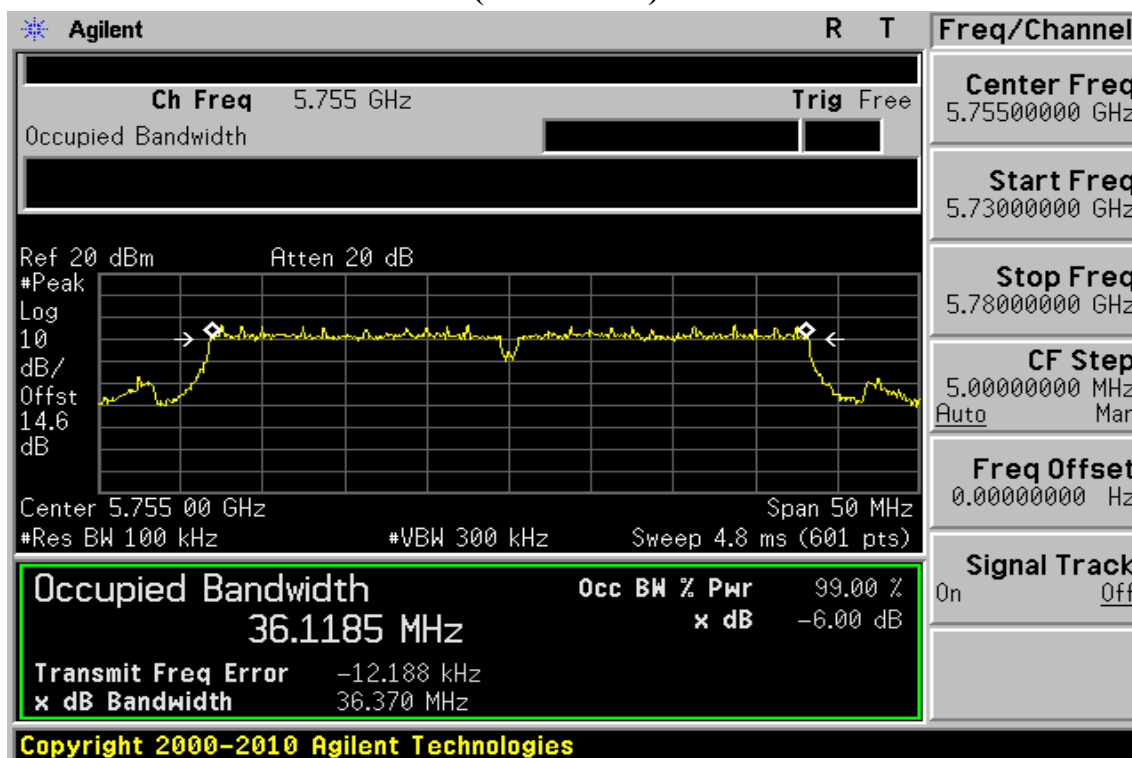
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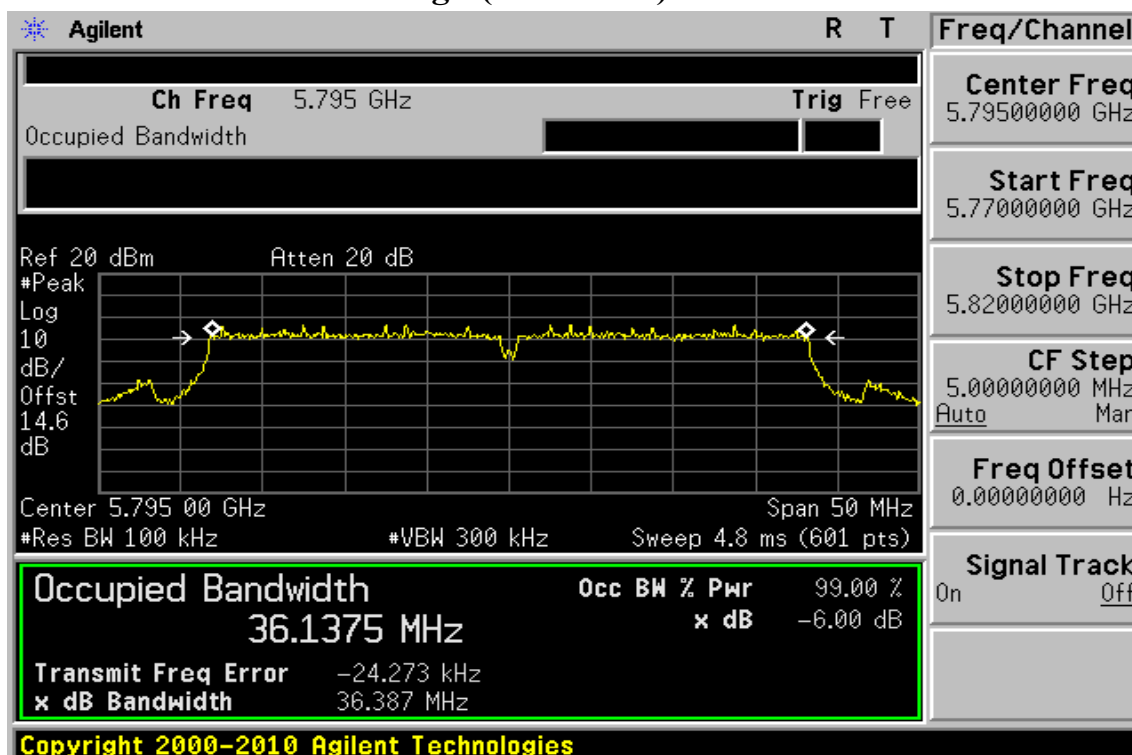
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## 802.11n HT40, 5725~5850 MHz (Main)

## 6dB Band Width Test Data CH-Low (5755 MHz)



## 6dB Band Width Test Data CH-High (5795 MHz)



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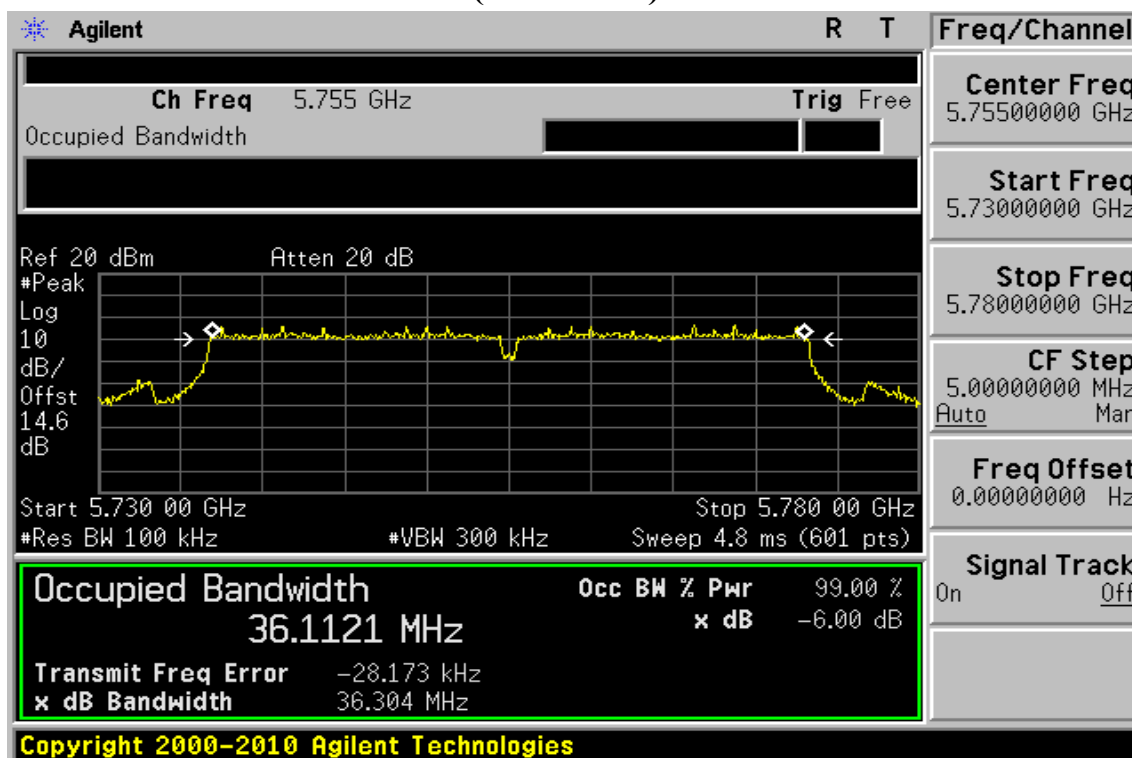
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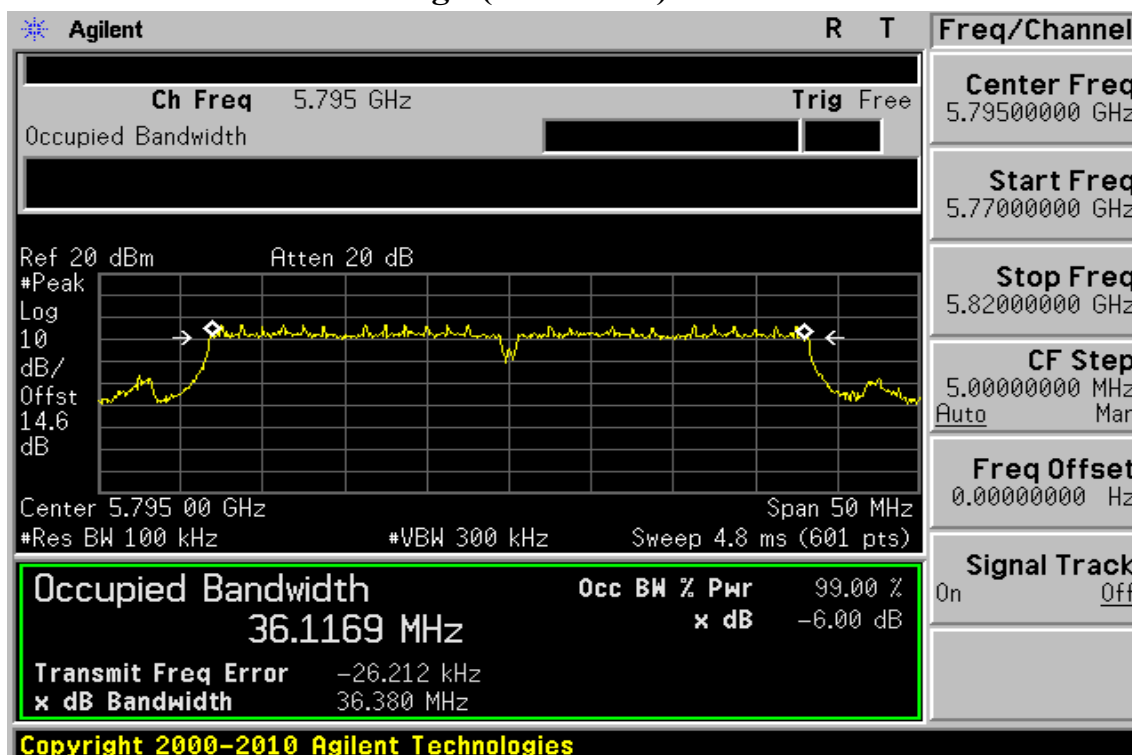
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## 802.11n HT40, 5725~5850 MHz (Aux)

## 6dB Band Width Test Data CH-Low (5755 MHz)



## 6dB Band Width Test Data CH-High (5795 MHz)



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## 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

| OPERZTION<br>Band | EUT CATEGORY |                                   | LIMIT                             |
|-------------------|--------------|-----------------------------------|-----------------------------------|
| U-NII-1           |              | Access Point (Mater device )      | 1 Watt(30dBm)                     |
|                   |              | Fixed point-to-point Acess Ponit  | 1 Watt(30dBm)                     |
|                   | √            | Mobile and portable clinet device | 250mW(23.98dBm)                   |
| U-NII-2A          | √            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-2C          | √            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-3           | √            |                                   | 1 Watt(30dBm)                     |

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6dBi.

The antenna gain is greater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.54+3.01=9.55dBi

Limit: 23.98dBm – (9.55– 6dBi) = 20.43dBm

Therefore the limit needs to reduce for the U-NII-1 and U-NII-2A band.

Effective Legacy Gain (dBi) = 5.19+3.01=8.20dBi

Limit: 23.98dBm – (8.20– 6dBi) = 21.78dBm

Therefore the limit needs to reduce for the U-NII-2C band.

Effective Legacy Gain (dBi) = 3.67+3.01=6.68dBi

Limit: 30dBm – (6.68– 6dBi) = 29.32dBm

Therefore the limit needs to reduce for the U-NII-3 Band.

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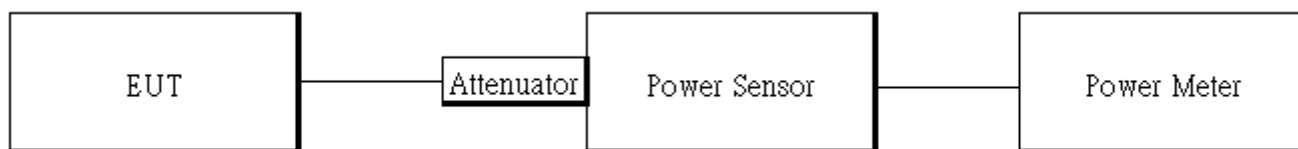
## 9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

## 9.3 Measurement Equipment Used

Refer to section 8.3 for details.

## 9.4 Test Set-up



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## 9.5 Measurement Result

802.11a

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)                     | RESULT |
|-----|-----------------|-------------------|------------------|------------------------------------------|--------|
| 36  | 5180            | 9.36              | 8.630            | 23.98                                    | PASS   |
| 44  | 5220            | <b>9.88</b>       | <b>9.727</b>     | 23.98                                    | PASS   |
| 48  | 5240            | 9.76              | 9.462            | 23.98                                    | PASS   |
| 52  | 5260            | 10.32             | 10.765           | $23.98 \text{ or } 11+10\log(B) = 24.60$ | PASS   |
| 60  | 5300            | <b>10.34</b>      | <b>10.814</b>    | $23.98 \text{ or } 11+10\log(B) = 24.44$ | PASS   |
| 64  | 5320            | 8.91              | 7.780            | $23.98 \text{ or } 11+10\log(B) = 24.52$ | PASS   |
| 100 | 5500            | 5.90              | 3.890            | $23.98 \text{ or } 11+10\log(B) = 24.32$ | PASS   |
| 116 | 5580            | <b>10.19</b>      | <b>10.447</b>    | $23.98 \text{ or } 11+10\log(B) = 24.59$ | PASS   |
| 140 | 5700            | 7.69              | 5.875            | $23.98 \text{ or } 11+10\log(B) = 24.43$ | PASS   |
| 149 | 5745            | 10.08             | 10.186           | 30                                       | PASS   |
| 157 | 5785            | <b>10.32</b>      | <b>10.765</b>    | 30                                       | PASS   |
| 165 | 5825            | 10.24             | 10.568           | 30                                       | PASS   |

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## 802.11n HT20 (MIMO)

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |             | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)            | RESULT |
|-----|-----------------|---------------------|-------------|-------------------|------------------|---------------------------------|--------|
|     |                 | CHAIN 0             | CHAIN 1     |                   |                  |                                 |        |
| 36  | 5180            | <b>7.60</b>         | <b>7.08</b> | <b>10.36</b>      | <b>10.859</b>    | 20.43                           | PASS   |
| 44  | 5220            | 7.45                | 6.55        | 10.03             | 10.078           | 20.43                           | PASS   |
| 48  | 5240            | 7.33                | 6.41        | 9.90              | 9.783            | 20.43                           | PASS   |
| 52  | 5260            | 7.27                | 6.18        | 9.77              | 9.483            | 20.43 or $11+10\log(B) = 24.56$ | PASS   |
| 60  | 5300            | <b>7.67</b>         | <b>6.89</b> | <b>10.31</b>      | <b>10.734</b>    | 20.43 or $11+10\log(B) = 24.53$ | PASS   |
| 64  | 5320            | 6.90                | 6.04        | 9.50              | 8.916            | 20.43 or $11+10\log(B) = 24.31$ | PASS   |
| 100 | 5500            | 5.73                | 5.17        | 8.47              | 7.030            | 21.78 or $11+10\log(B) = 24.50$ | PASS   |
| 116 | 5580            | 7.29                | 6.73        | 10.03             | 10.068           | 21.78 or $11+10\log(B) = 24.49$ | PASS   |
| 140 | 5700            | <b>7.75</b>         | <b>7.22</b> | <b>10.50</b>      | <b>11.229</b>    | 21.78 or $11+10\log(B) = 24.59$ | PASS   |
| 149 | 5745            | 7.26                | 6.50        | 9.91              | 9.788            | 29.32                           | PASS   |
| 157 | 5785            | 7.21                | 6.69        | 9.97              | 9.927            | 29.32                           | PASS   |
| 165 | 5825            | <b>7.36</b>         | <b>6.90</b> | <b>10.15</b>      | <b>10.343</b>    | 29.32                           | PASS   |

## 802.11n HT40 (MIMO)

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |             | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)            | RESULT |
|-----|-----------------|---------------------|-------------|-------------------|------------------|---------------------------------|--------|
|     |                 | CHAIN 0             | CHAIN 1     |                   |                  |                                 |        |
| 38  | 5190            | 6.33                | 5.63        | 9.00              | 7.951            | 20.43                           | PASS   |
| 46  | 5230            | <b>7.87</b>         | <b>6.97</b> | <b>10.45</b>      | <b>11.101</b>    | 20.43                           | PASS   |
| 54  | 5270            | <b>7.73</b>         | <b>6.77</b> | <b>10.29</b>      | <b>10.683</b>    | 20.43 or $11+10\log(B) = 27.84$ | PASS   |
| 62  | 5310            | 5.59                | 4.49        | 8.09              | 6.434            | 20.43 or $11+10\log(B) = 27.81$ | PASS   |
| 102 | 5510            | 3.93                | 3.50        | 6.73              | 4.710            | 21.78 or $11+10\log(B) = 27.78$ | PASS   |
| 110 | 5550            | 6.93                | 6.55        | 9.75              | 9.450            | 21.78 or $11+10\log(B) = 27.72$ | PASS   |
| 134 | 5670            | <b>7.13</b>         | <b>6.63</b> | <b>9.90</b>       | <b>9.767</b>     | 21.78 or $11+10\log(B) = 27.74$ | PASS   |
| 151 | 5755            | 7.66                | 7.11        | 10.40             | 10.975           | 29.32                           | PASS   |
| 159 | 5795            | <b>7.80</b>         | <b>7.18</b> | <b>10.51</b>      | <b>11.250</b>    | 29.32                           | PASS   |

**\* Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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## 10. PEAK POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

| OPERZTION<br>Band | EUT CATEGORY |                                   | LIMIT         |
|-------------------|--------------|-----------------------------------|---------------|
| U-NII-1           |              | Access Point (Mater device )      | 17dBm/ MHz    |
|                   |              | Fixed point-to-point Acess Ponit  |               |
|                   | √            | Mobile and portable clinet device | 11dBm/ MHz    |
| U-NII-2A          | √            |                                   | 11dBm/ MHz    |
| U-NII-2C          | √            |                                   | 11dBm/ MHz    |
| U-NII-3           | √            |                                   | 30dBm/ 500kHz |

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Note: The antenna gain is granter than 6 dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 6.54+3.01=9.55dBi

Limit: 11dBm – (9.55– 6dBi) = 7.45dBm

Therefore the limit needs to reduce for the U-NII-1 and U-NII-2A band.

Effective Legacy Gain (dBi) = 5.19+3.01=8.20dBi

Limit: 11dBm – (8.20– 6dBi) = 8.80dBm

Therefore the limit needs to reduce for the U-NII-2C band.

Effective Legacy Gain (dBi) = 3.67+3.01=6.68dBi

Limit: 30dBm – (6.68– 6dBi) = 29.32dBm

Therefore the limit needs to reduce for the U-NII-3 band.

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## 10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)  
**For U-NII-3 Band:**  
Set RBW=510 kHz, VBW= 3\*RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
7. MIMO Mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss +  $10 \log (N)$ , where N is number of transmitting antenna. N=2 for this given application.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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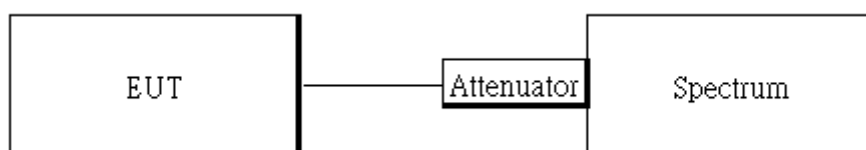
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### 10.3 Measurement Equipment Used

| Conducted Emission Test Site |               |              |               |            |            |
|------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer            | Agilent       | E4446A       | MY51100003    | 01/29/2015 | 01/28/2016 |
| DC Block                     | Mini-Circuits | BLK-18-S+    | 1             | 01/02/2015 | 01/01/2016 |
| Attenuator                   | Mini-Circuit  | BW-S10W2+    | 002           | 01/02/2015 | 01/01/2016 |

### 10.4 Test Set-up



### 10.5 Measurement Result

802.11a

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5180            | -5.71      | 11.00       | -16.71      |
| 5220            | -5.83      | 11.00       | -16.83      |
| 5240            | -4.81      | 11.00       | -15.81      |
| 5260            | -3.83      | 11.00       | -14.83      |
| 5300            | -4.27      | 11.00       | -15.27      |
| 5320            | -5.85      | 11.00       | -16.85      |
| 5500            | -9.61      | 11.00       | -20.61      |
| 5580            | -4.69      | 11.00       | -15.69      |
| 5700            | -6.29      | 11.00       | -17.29      |
| 5745            | 2.86       | 30.00       | -27.14      |
| 5785            | 3.84       | 30.00       | -26.16      |
| 5825            | 3.10       | 30.00       | -26.90      |

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## 802.11n HT20 (MIMO)

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5180            | -4.16      | 7.45        | -11.61      |
| 5220            | -6.34      | 7.45        | -13.79      |
| 5240            | -5.71      | 7.45        | -13.16      |
| 5260            | -6.06      | 7.45        | -13.51      |
| 5300            | -4.29      | 7.45        | -11.74      |
| 5320            | -6.79      | 7.45        | -14.24      |
| 5500            | -6.86      | 8.80        | -15.66      |
| 5580            | -6.29      | 8.80        | -15.09      |
| 5700            | -6.30      | 8.80        | -15.10      |
| 5745            | 2.94       | 29.32       | -26.38      |
| 5785            | 4.08       | 29.32       | -25.24      |
| 5825            | 3.75       | 29.32       | -25.57      |

## 802.11n HT40 (MIMO)

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5190            | -14.22     | 7.45        | -21.67      |
| 5230            | -10.98     | 7.45        | -18.43      |
| 5270            | -11.88     | 7.45        | -19.33      |
| 5310            | -12.94     | 7.45        | -20.39      |
| 5510            | -14.48     | 8.80        | -23.28      |
| 5550            | -11.46     | 8.80        | -20.26      |
| 5670            | -11.58     | 8.80        | -20.38      |
| 5755            | 0.93       | 29.32       | -28.39      |
| 5795            | 1.92       | 29.32       | -27.40      |

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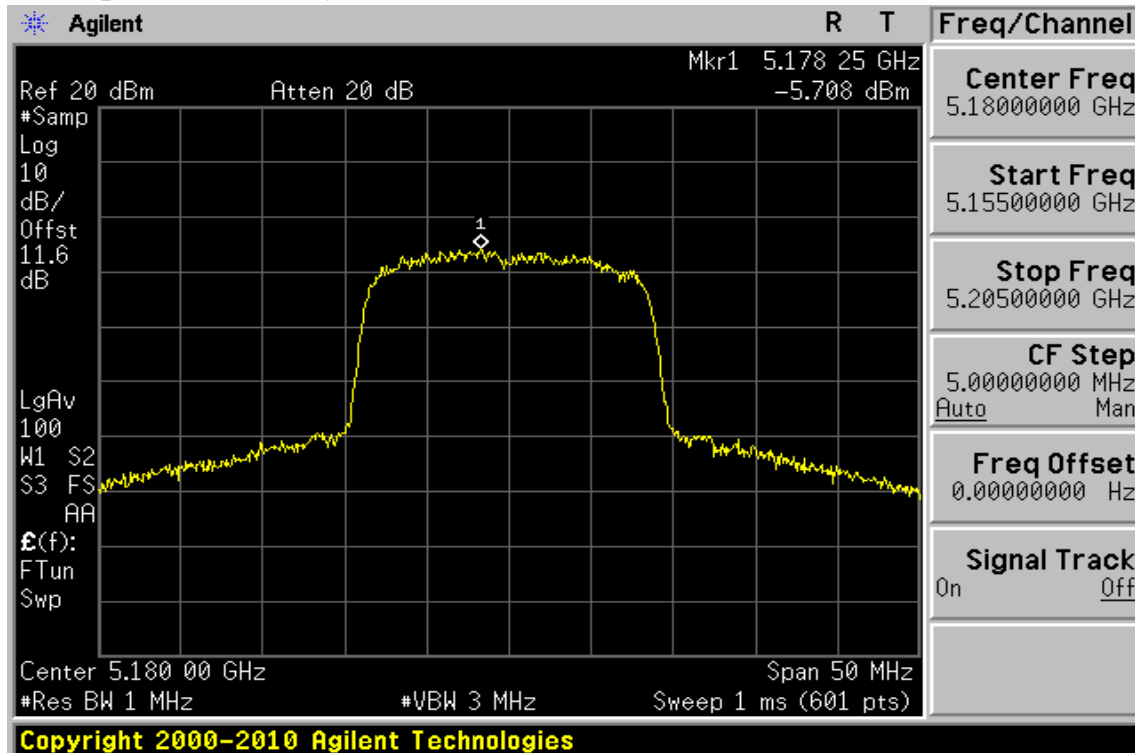
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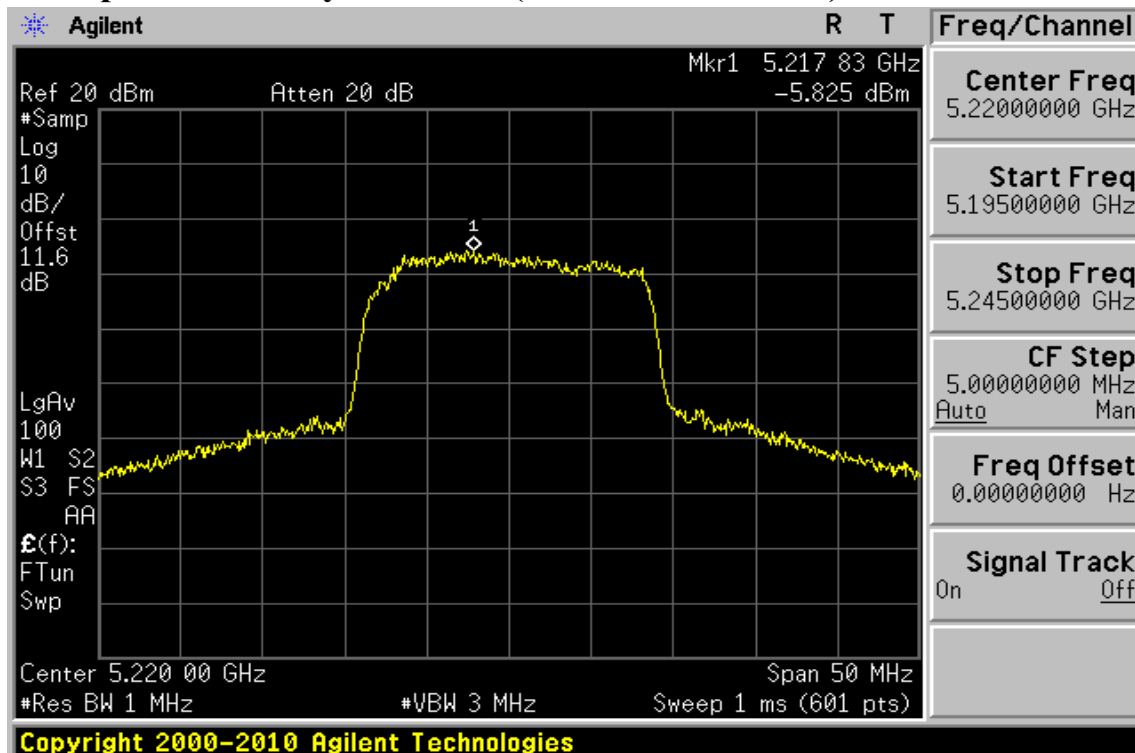
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## 802.11a, 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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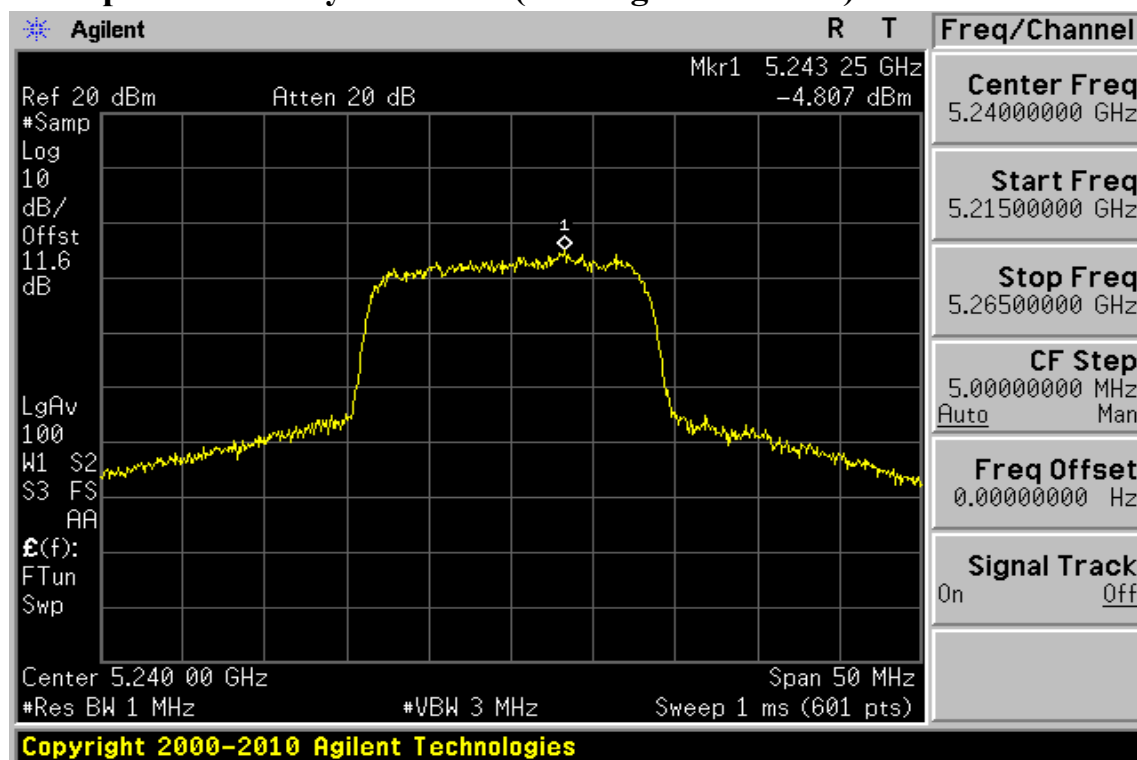
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## Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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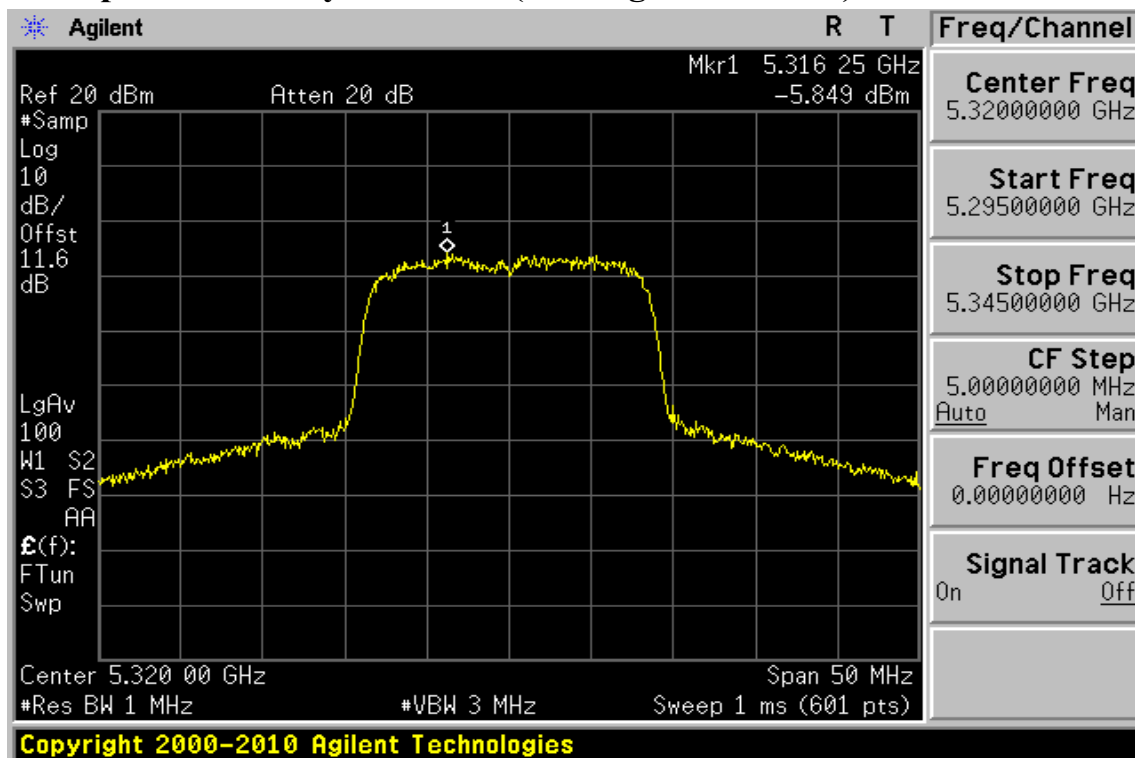
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## Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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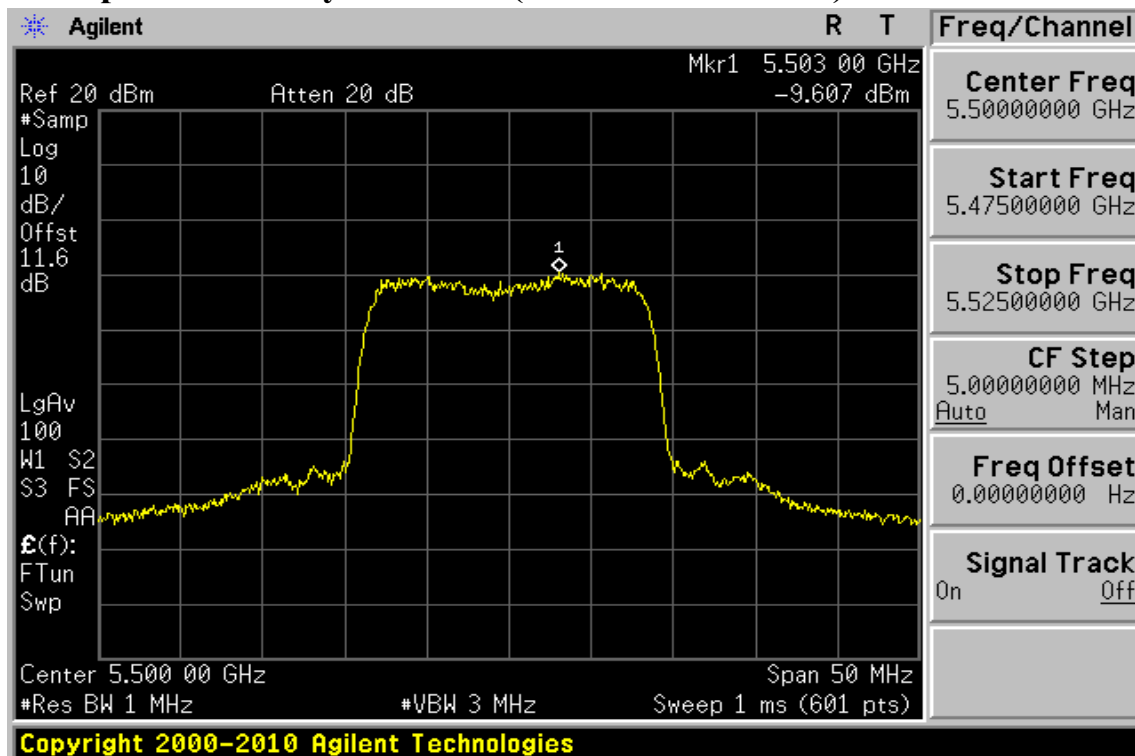
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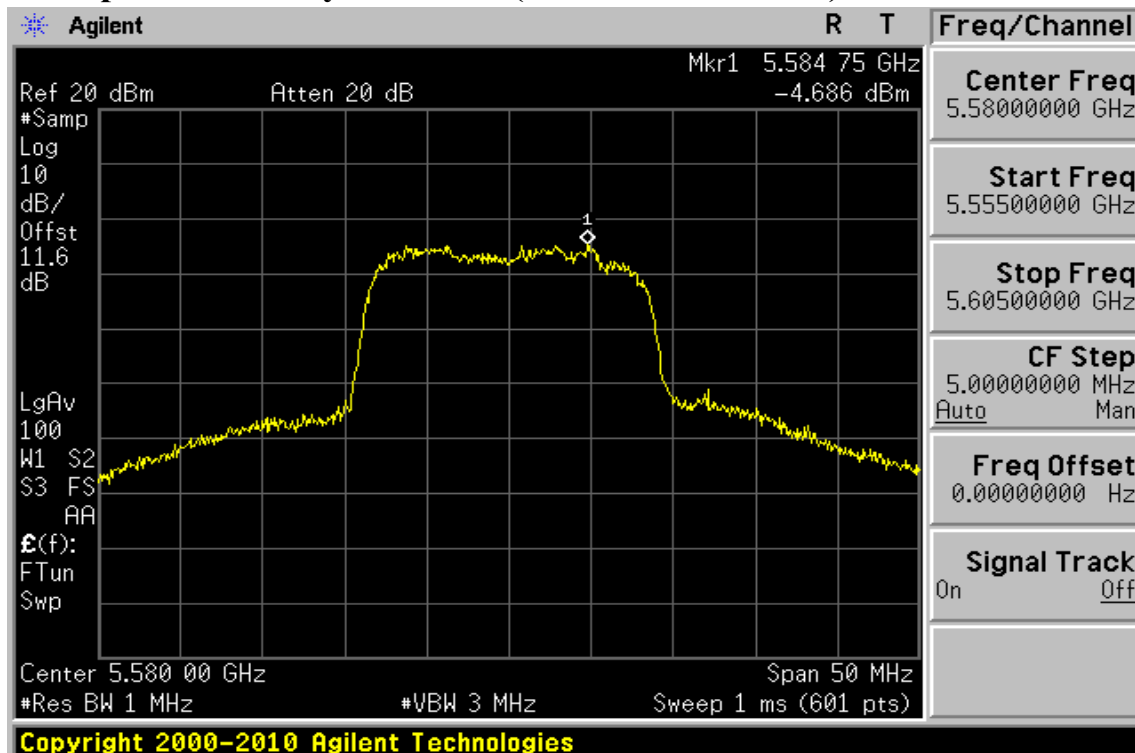
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## 802.11a, 5470~5725 MHz

## Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



## Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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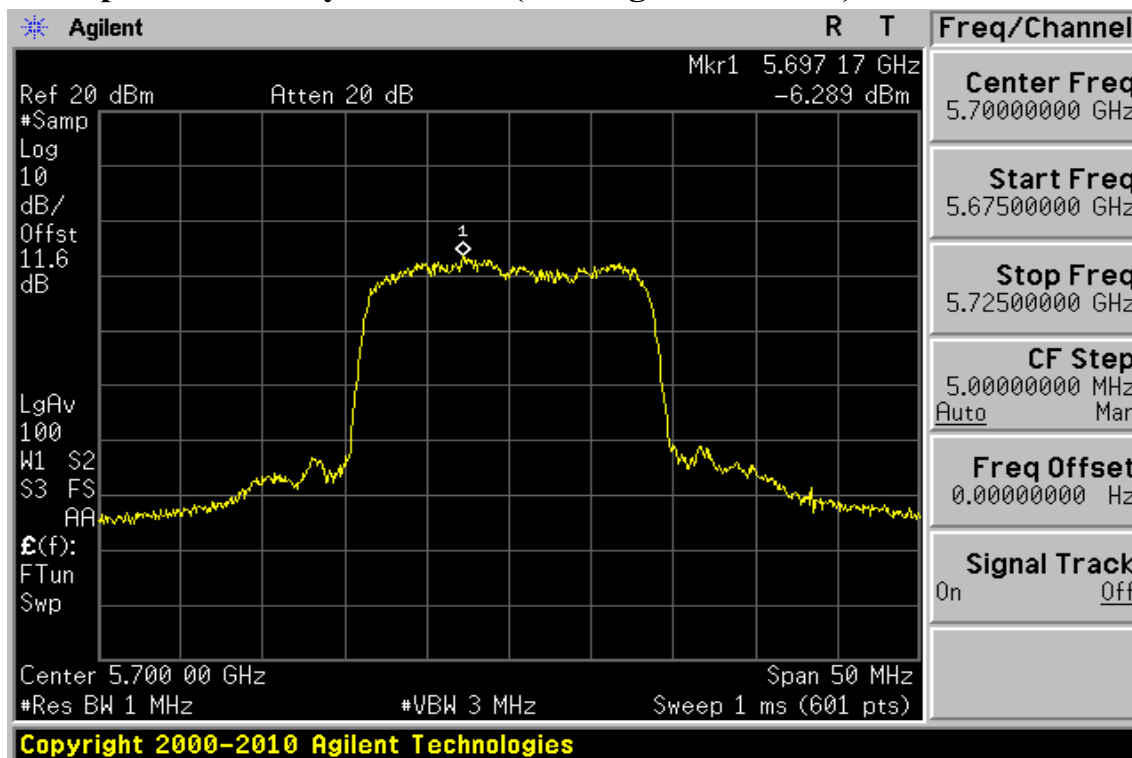
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## Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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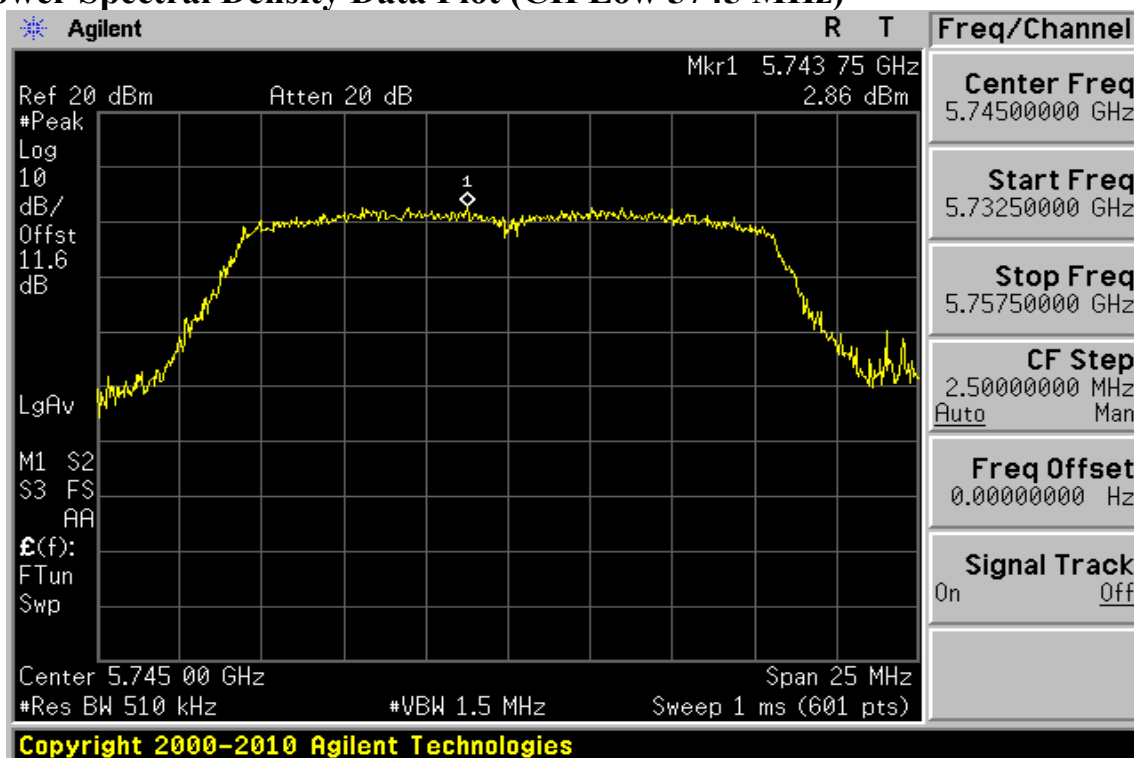
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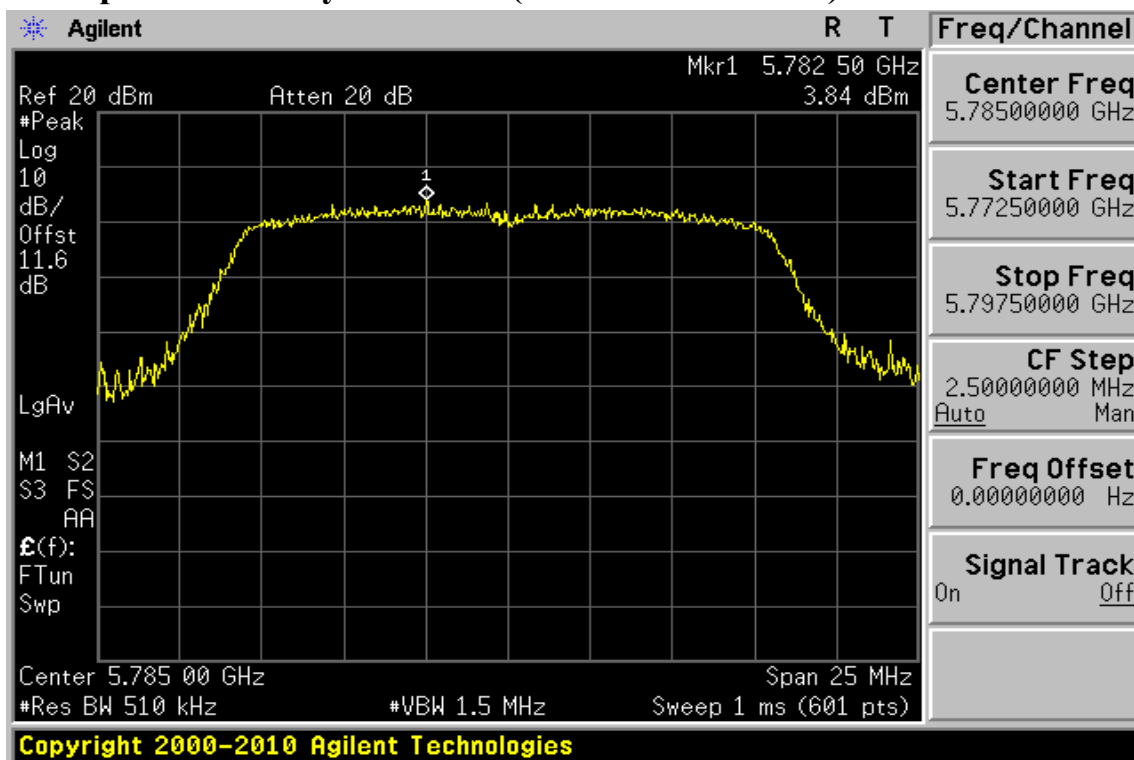
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## 802.11a, 5725~5850 MHz

## Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



## Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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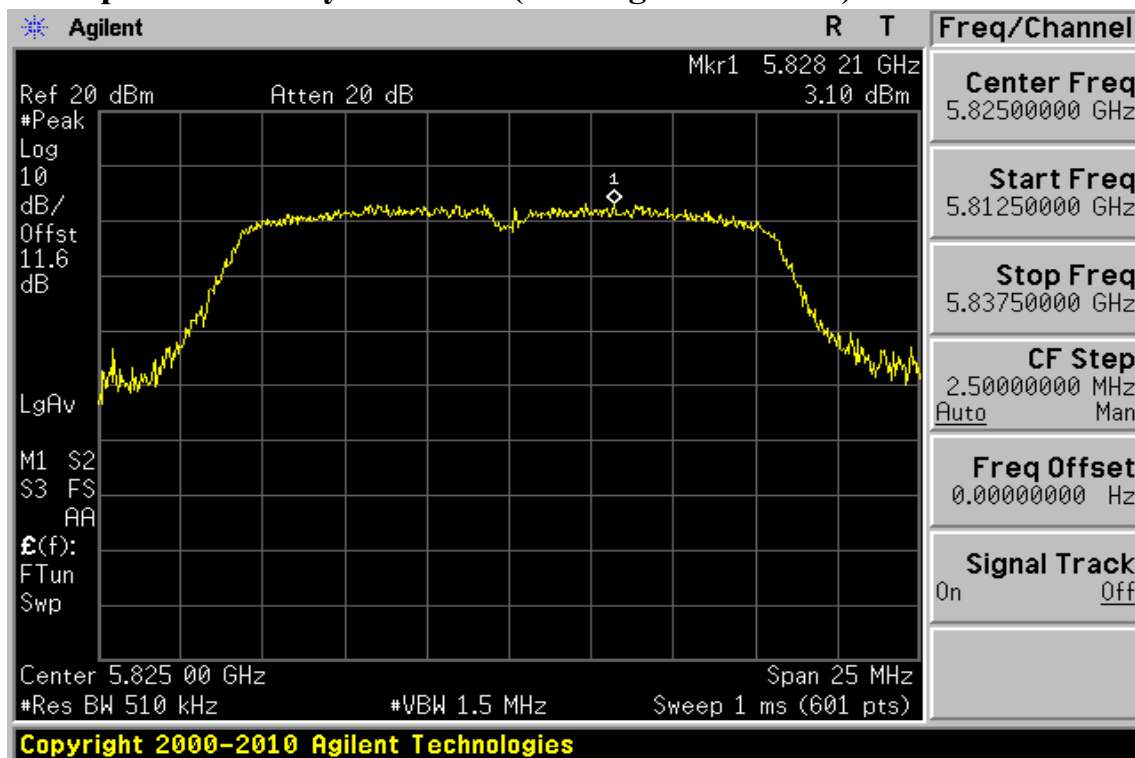
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## Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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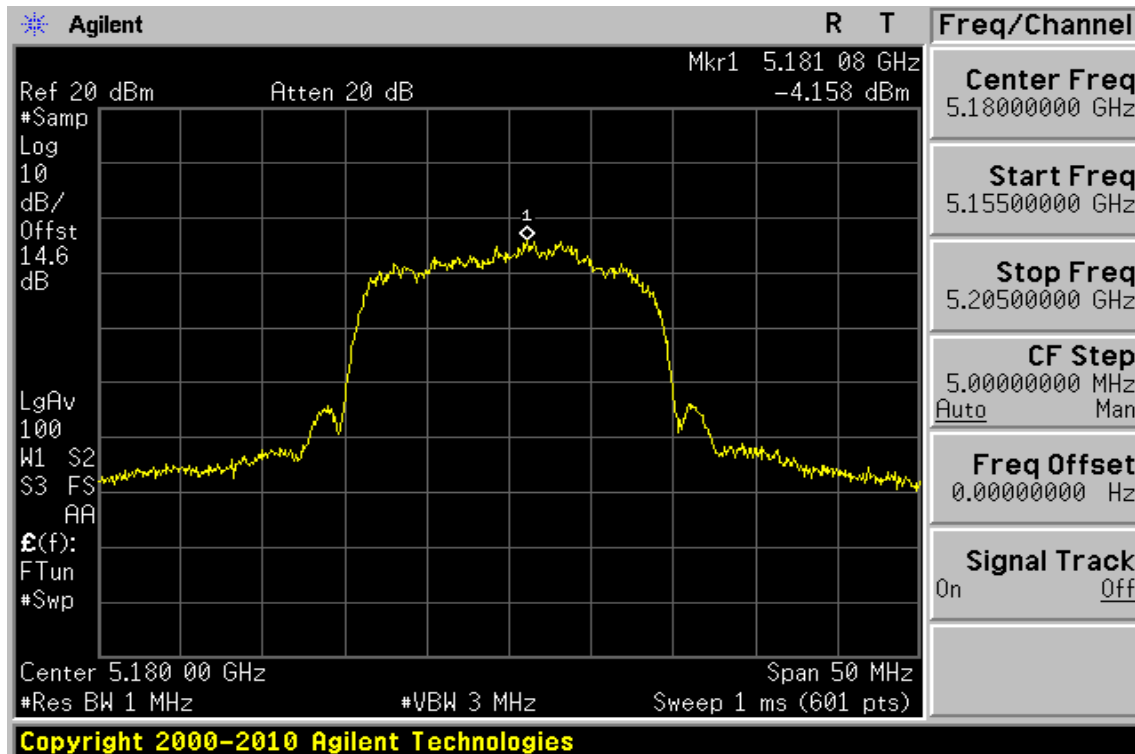
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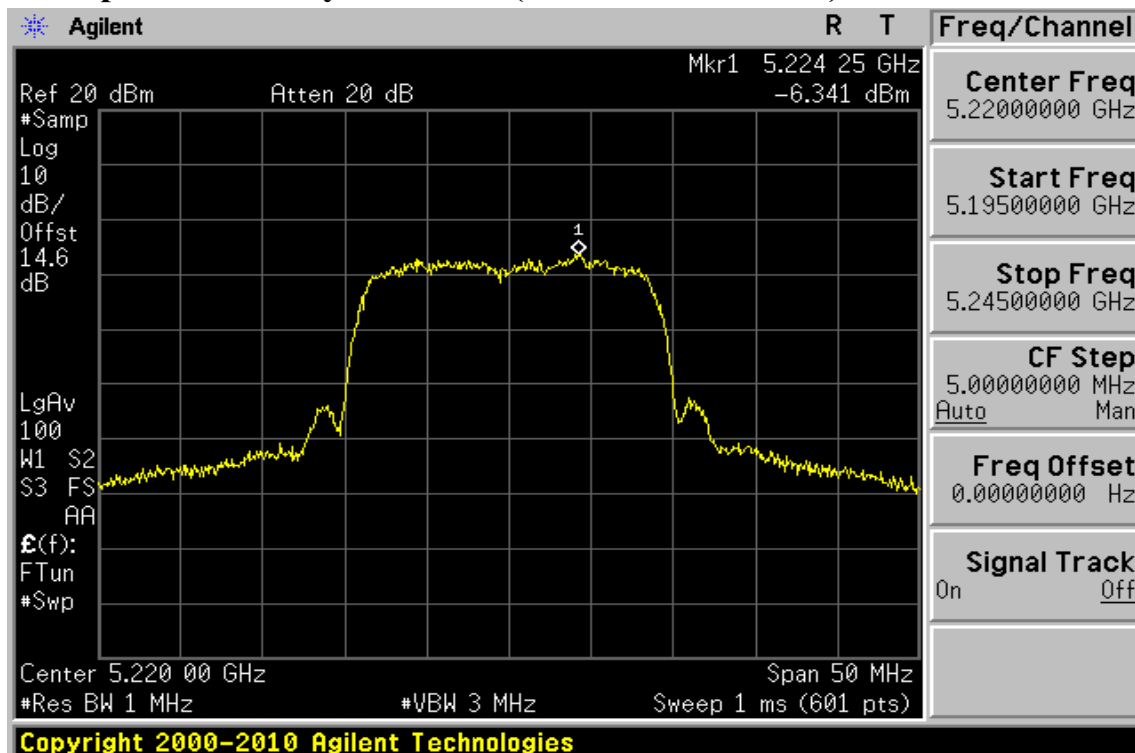
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## 802.11n HT20, 5150~5250 MHz (MIMO)

### Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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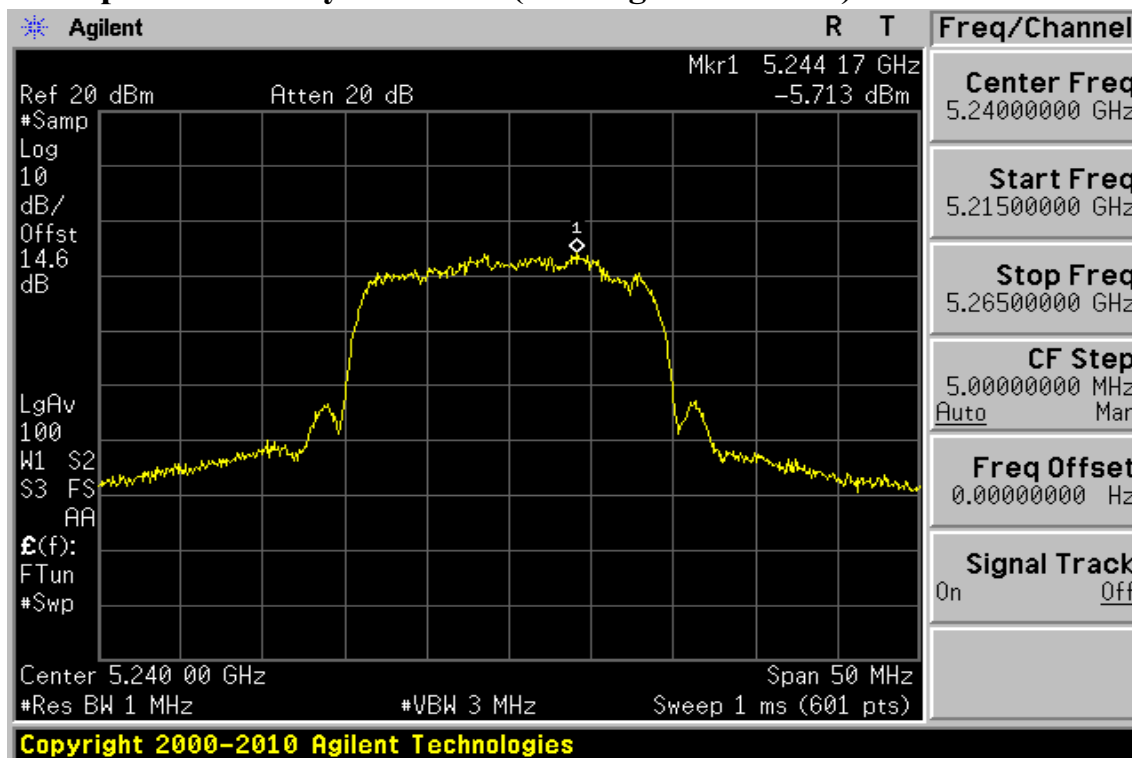
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## Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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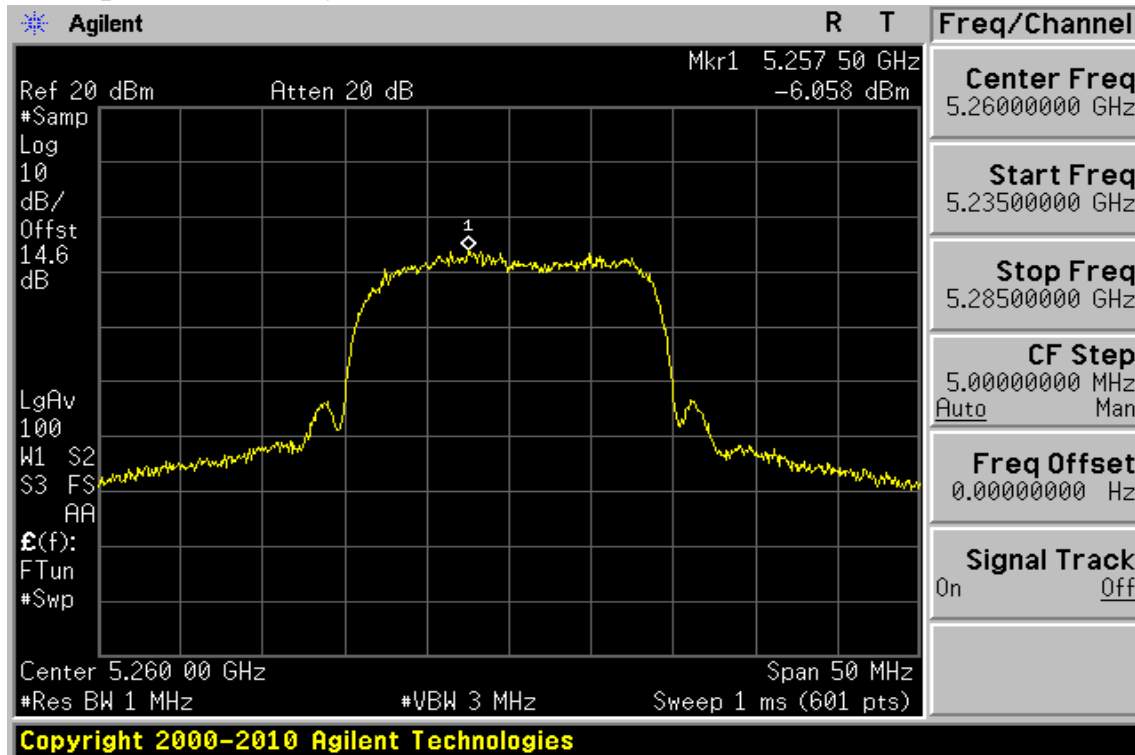
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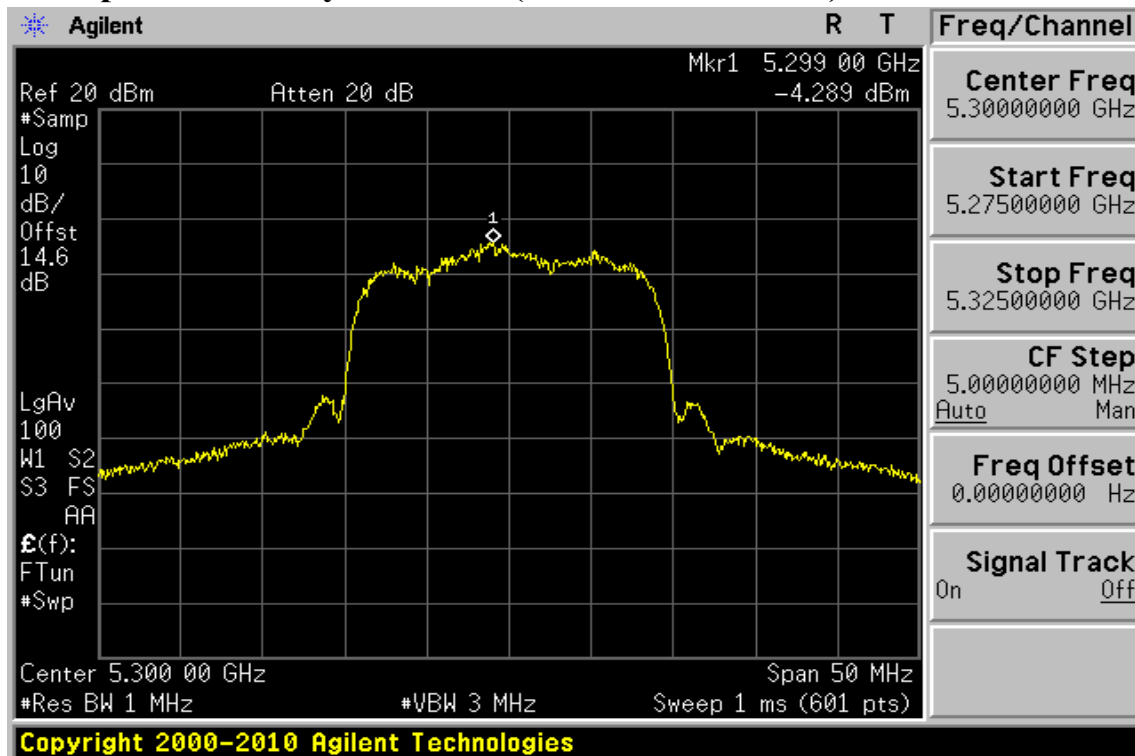
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## 802.11n HT20, 5250~5350 MHz (MIMO)

### Peak Power Spectral Density Data Plot (CH Low 5260MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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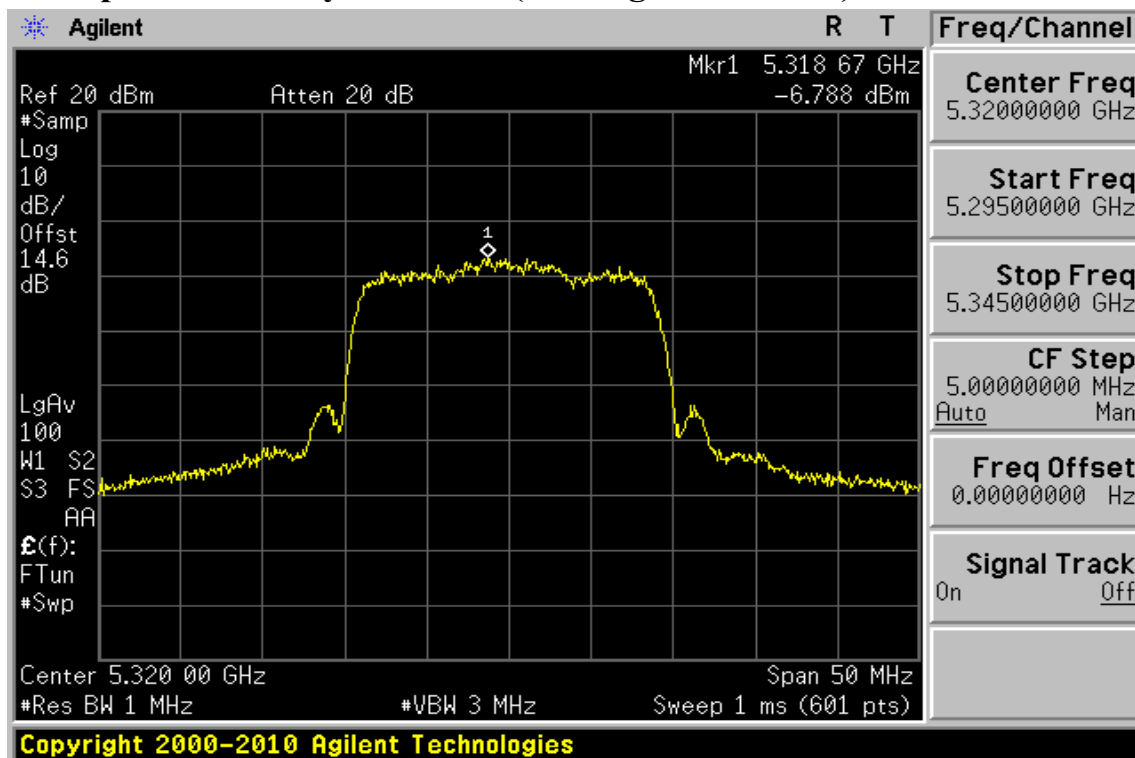
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## Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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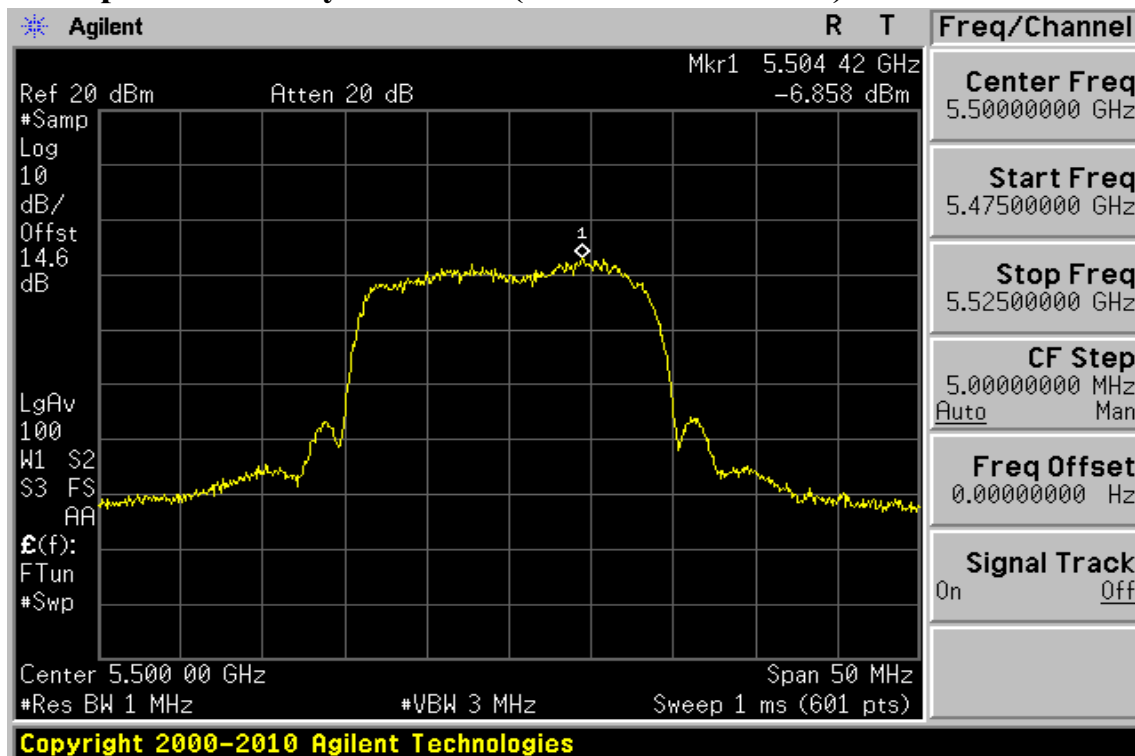
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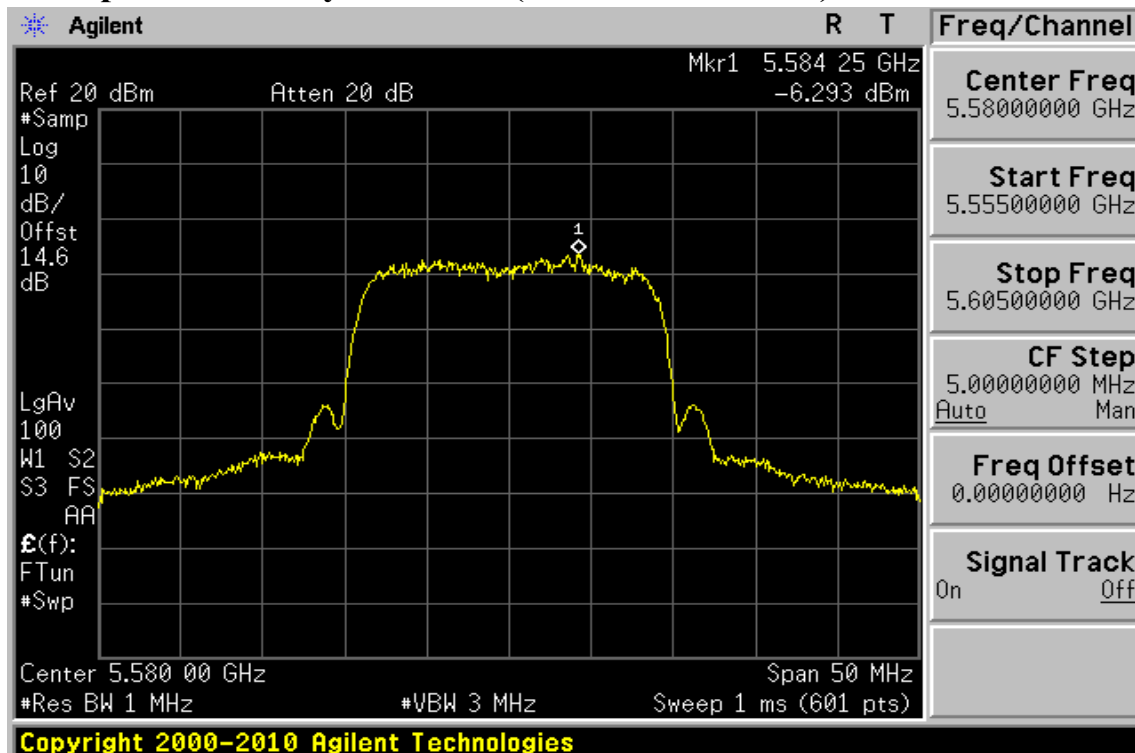
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## 802.11n HT20, 5470~5725 MHz (MIMO)

### Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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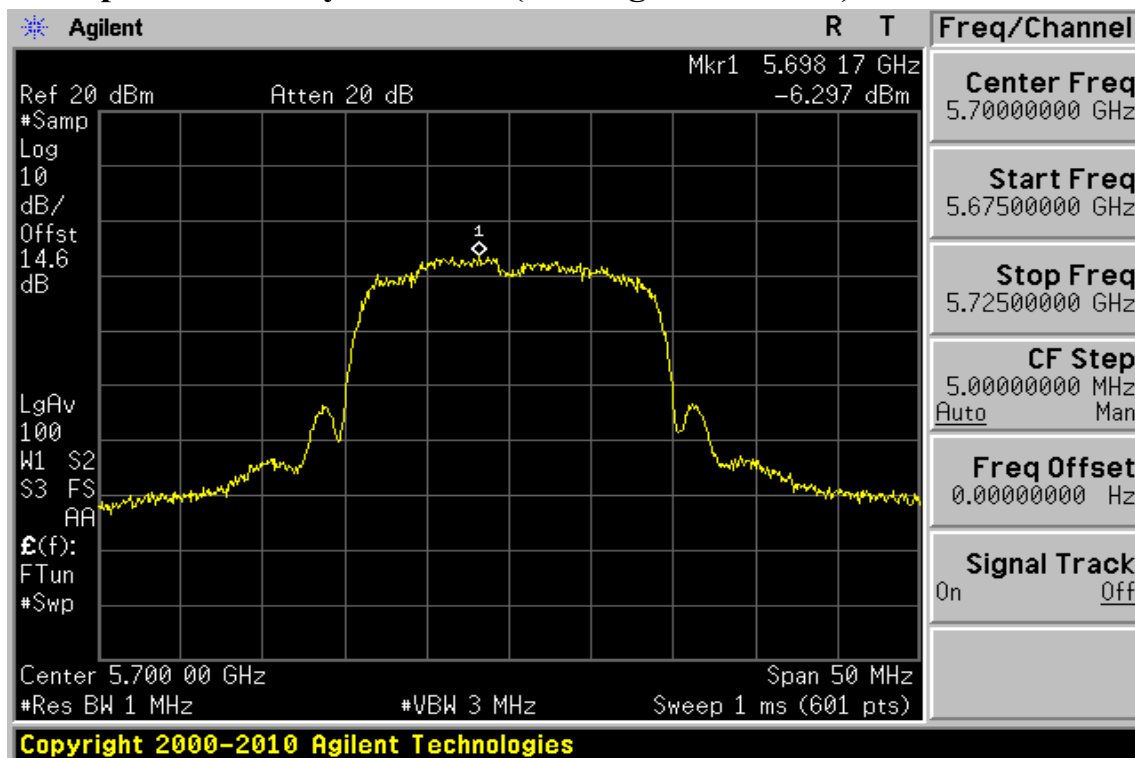
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## Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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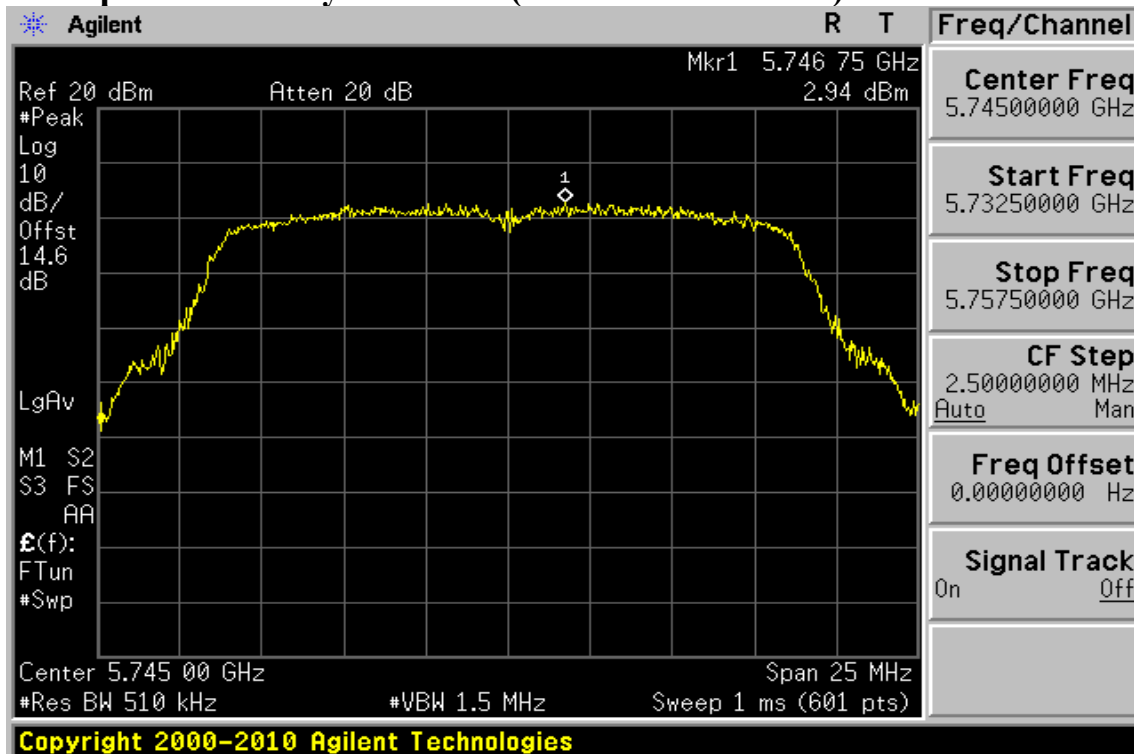
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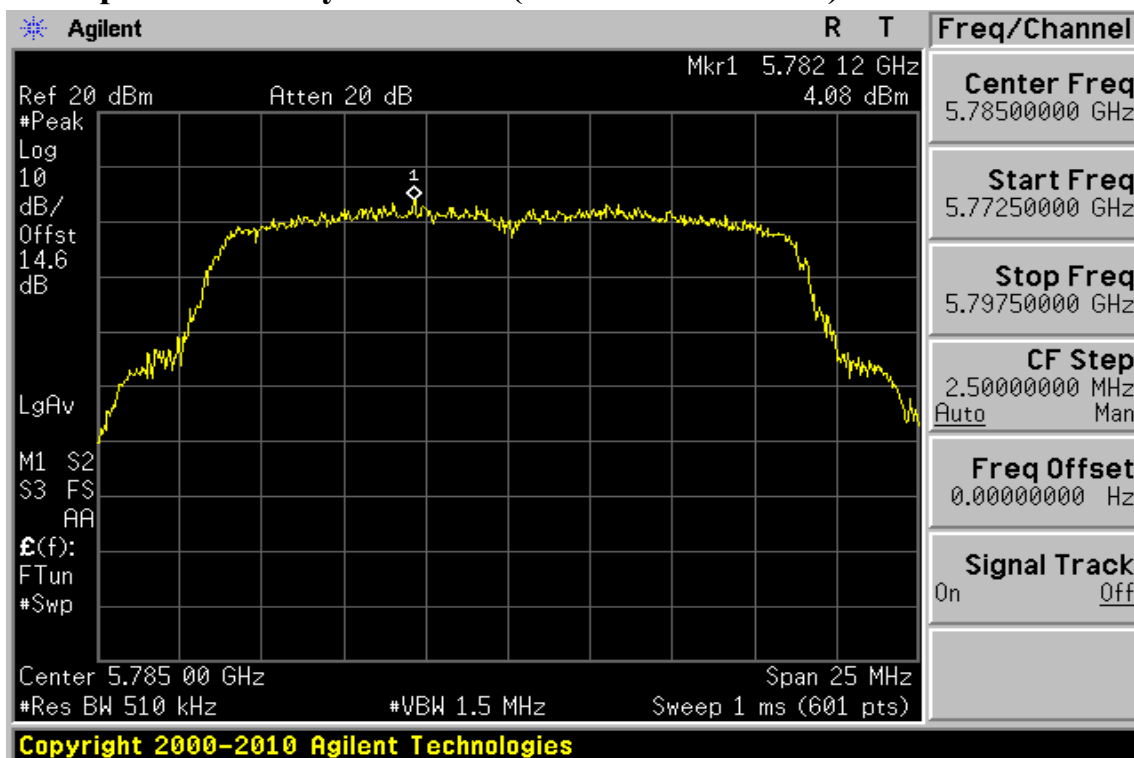
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## 802.11n HT20, 5725~5850 MHz (MIMO)

### Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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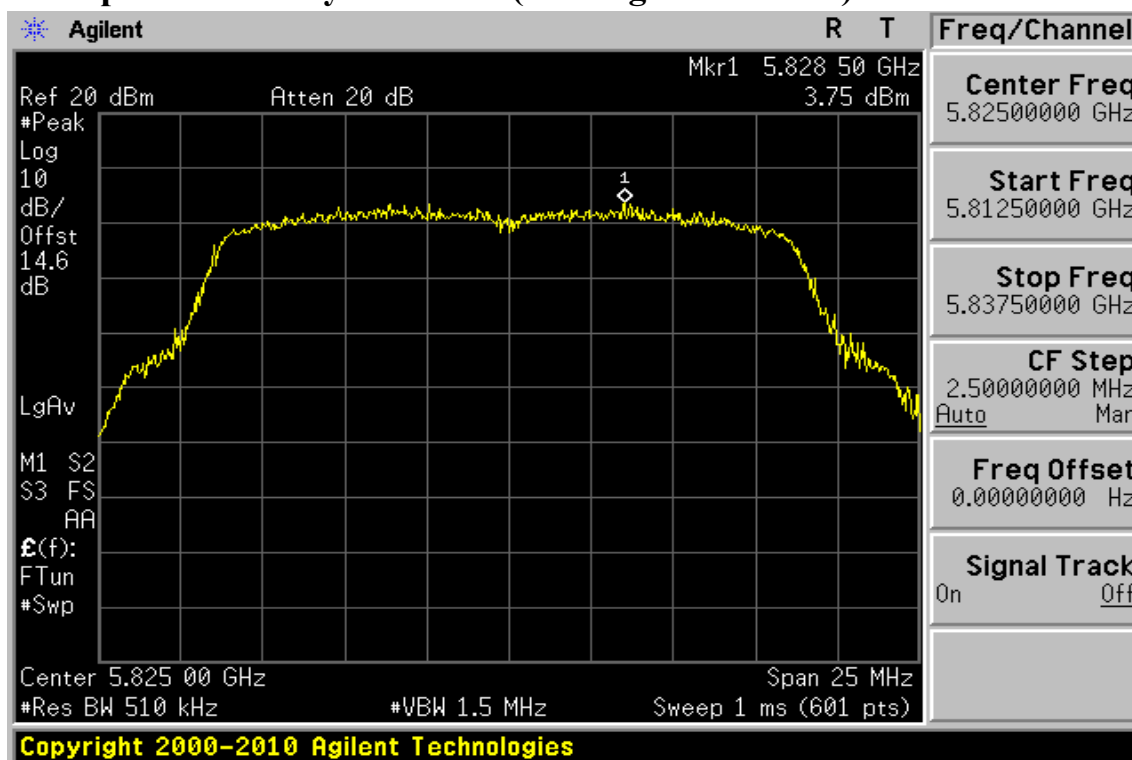
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## Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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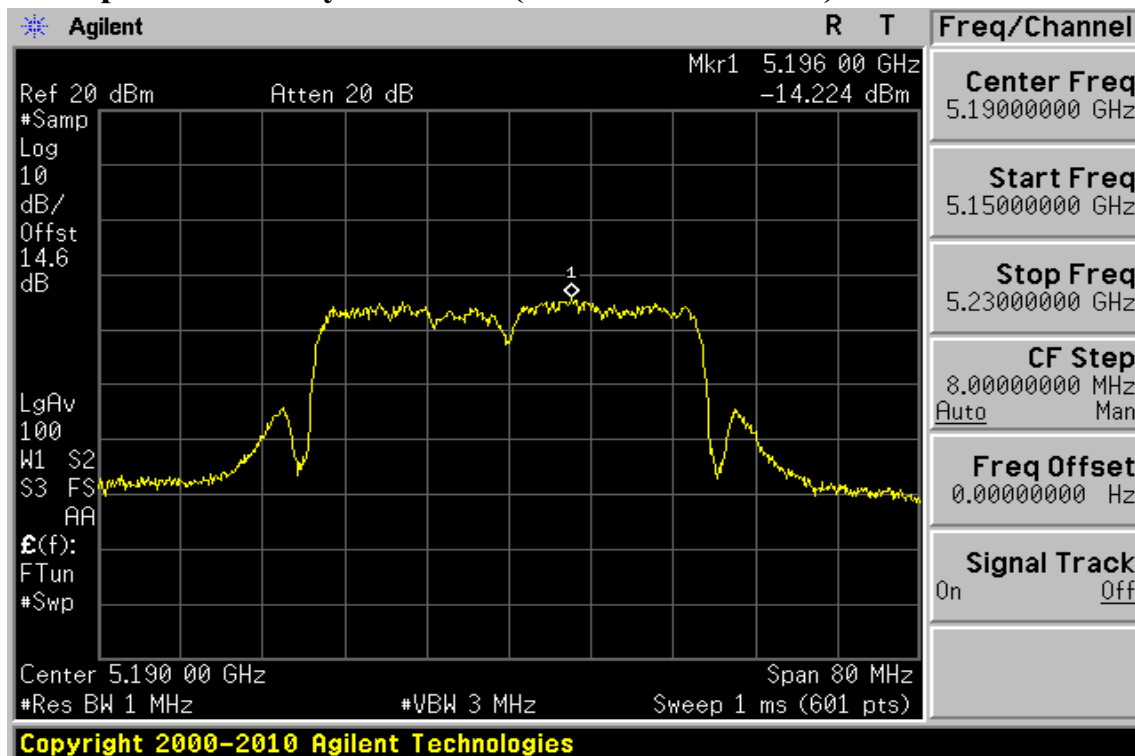
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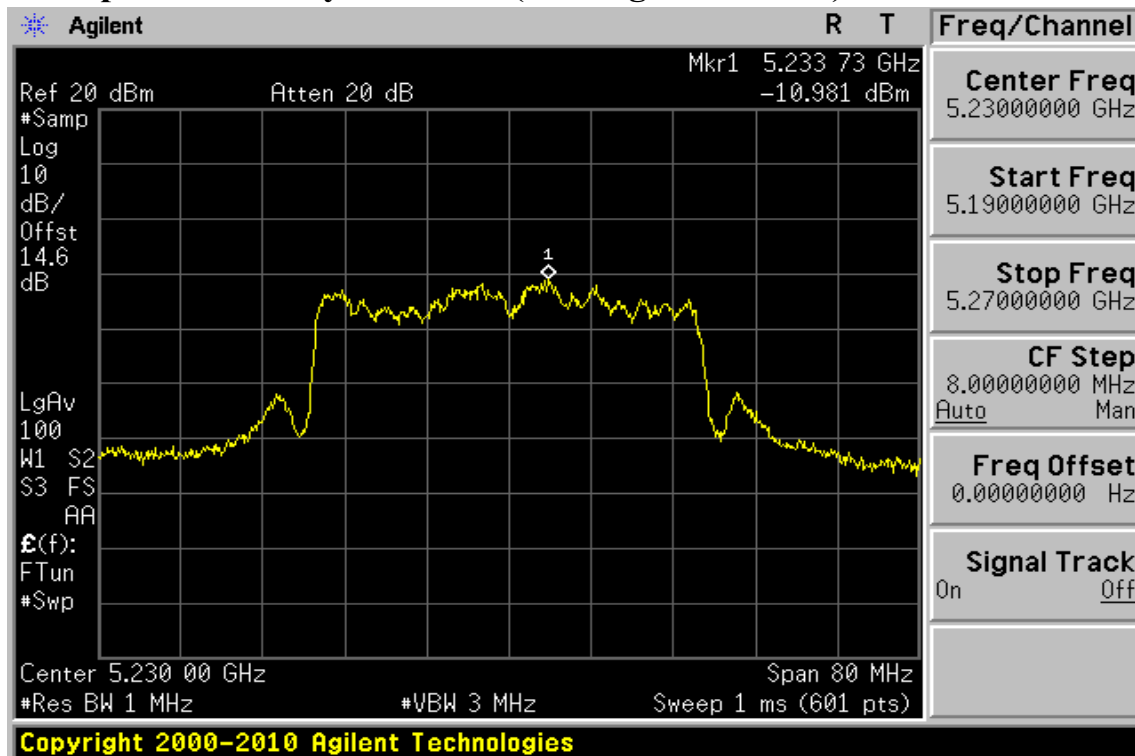
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## 802.11n HT40, 5150~5250 MHz (MIMO)

## Peak Power Spectral Density Data Plot (CH Low 5190MHz)



## Peak Power Spectral Density Data Plot (CH High 5230MHz)



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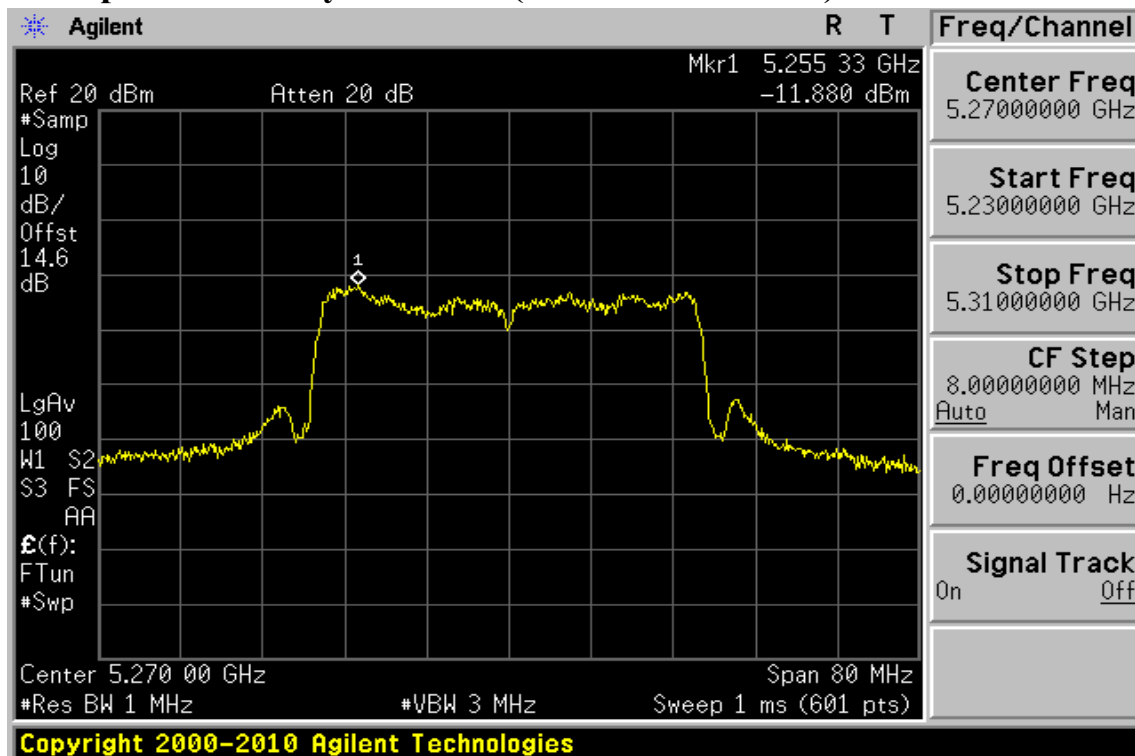
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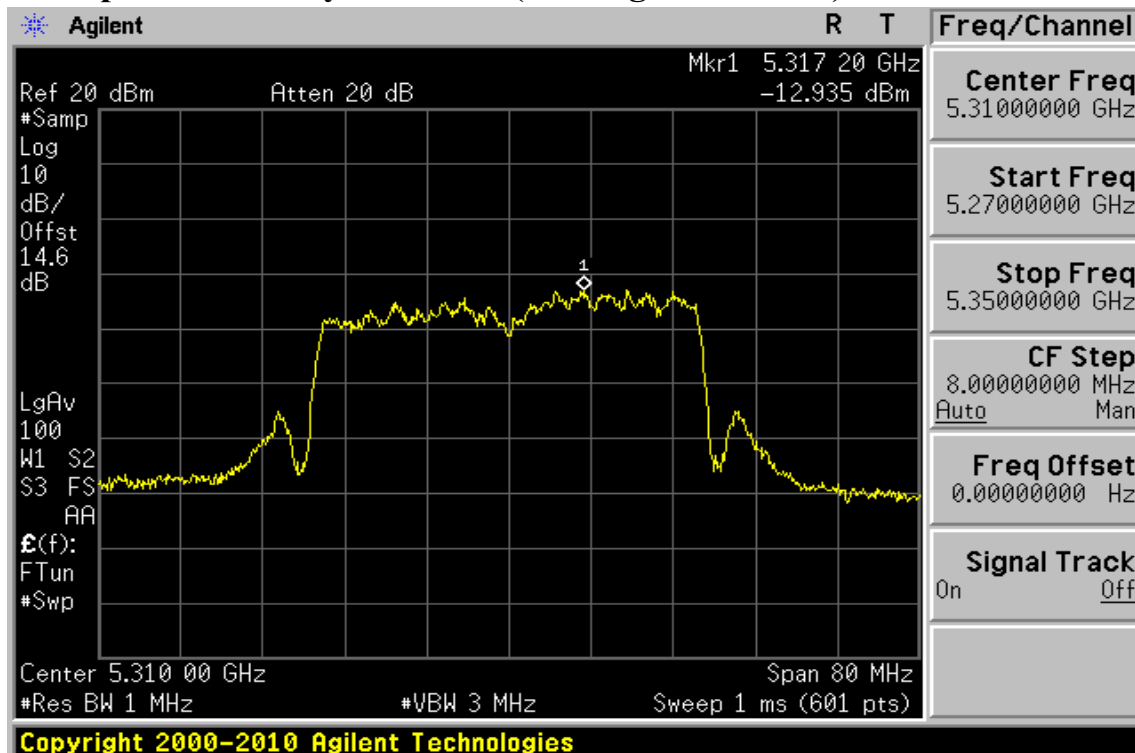
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## 802.11n HT40, 5250~5350 MHz (MIMO)

## Peak Power Spectral Density Data Plot (CH Low 5270MHz)



## Peak Power Spectral Density Data Plot (CH High 5310MHz)



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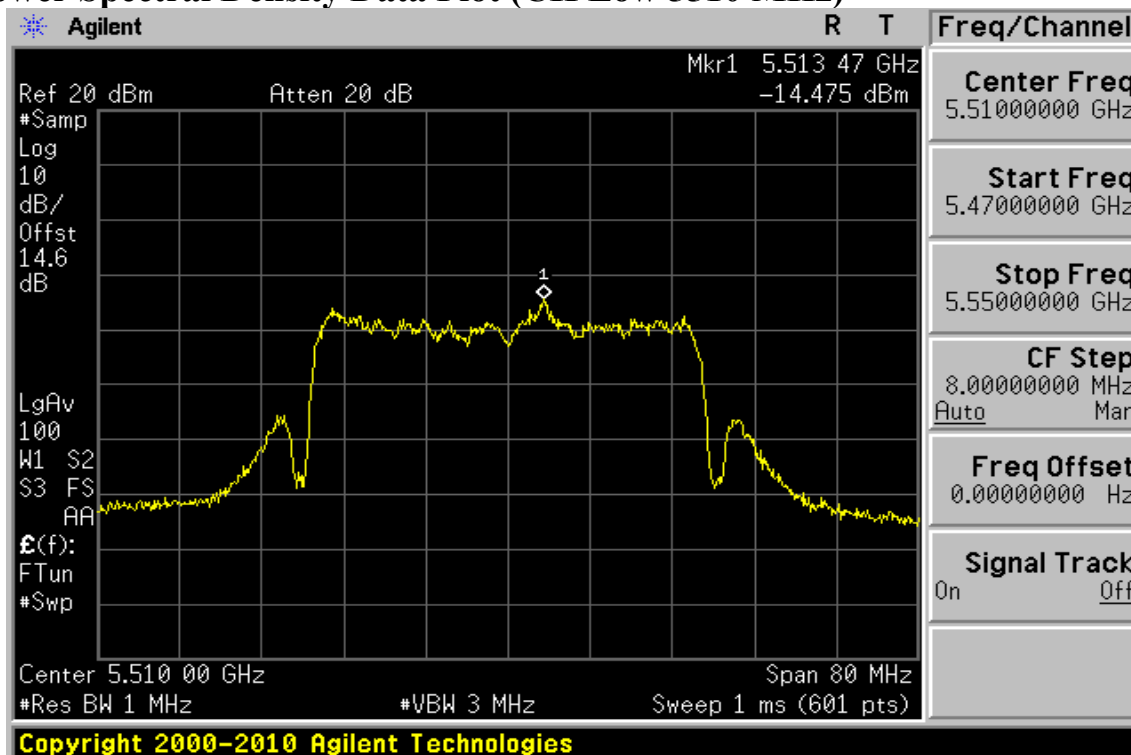
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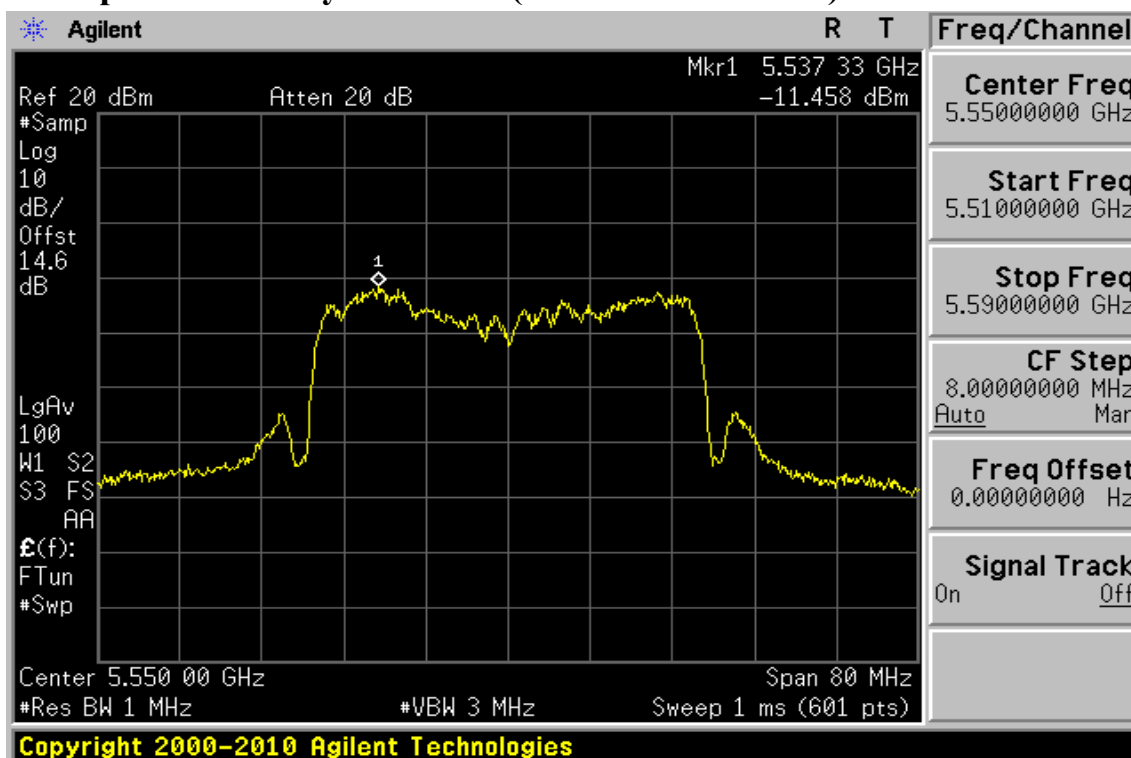
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## 802.11n HT40, 5470~5725 MHz (MIMO)

### Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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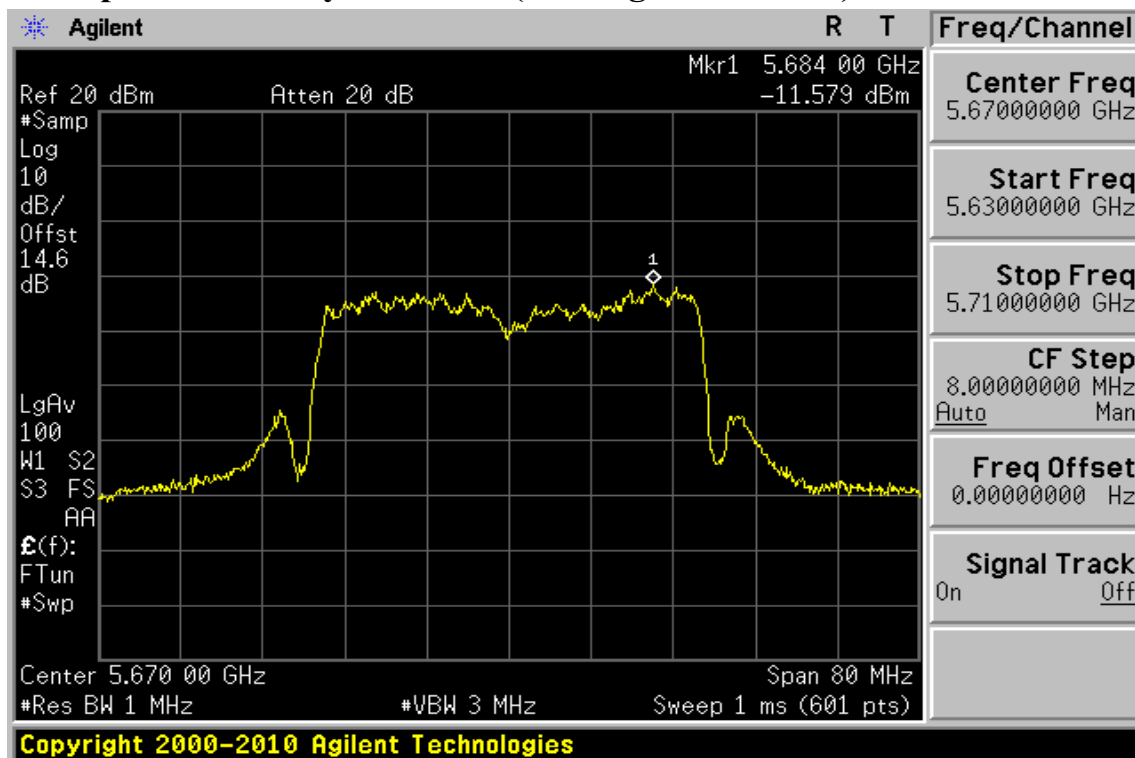
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## Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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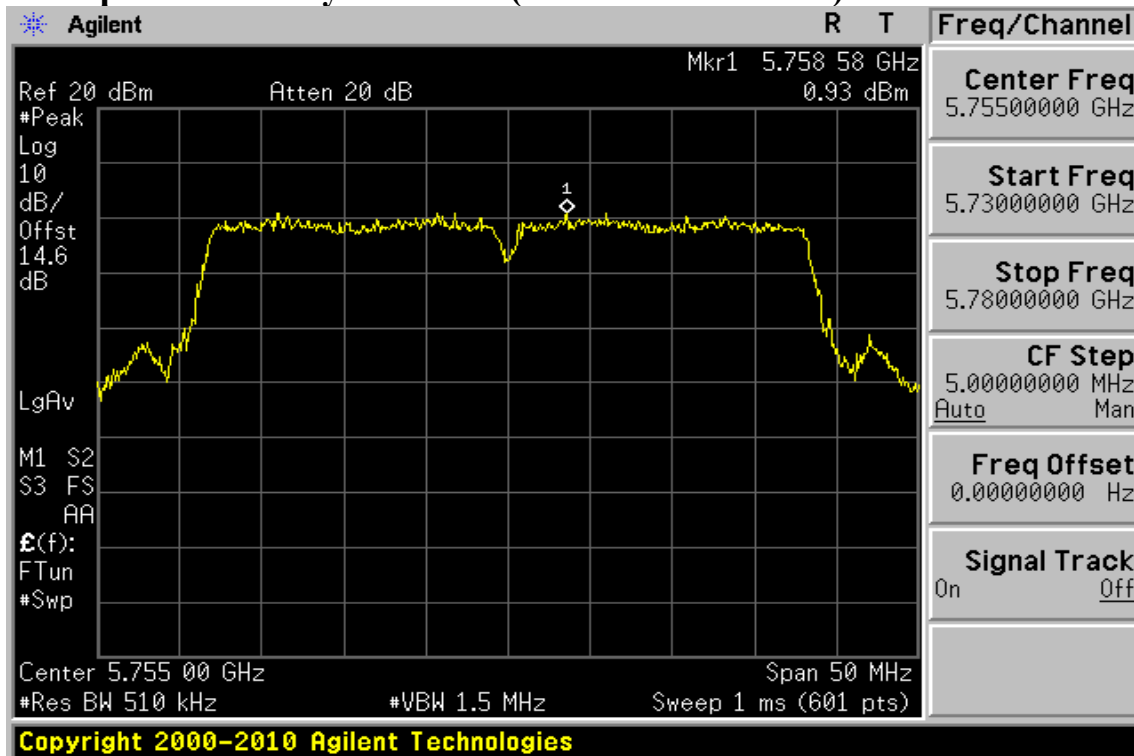
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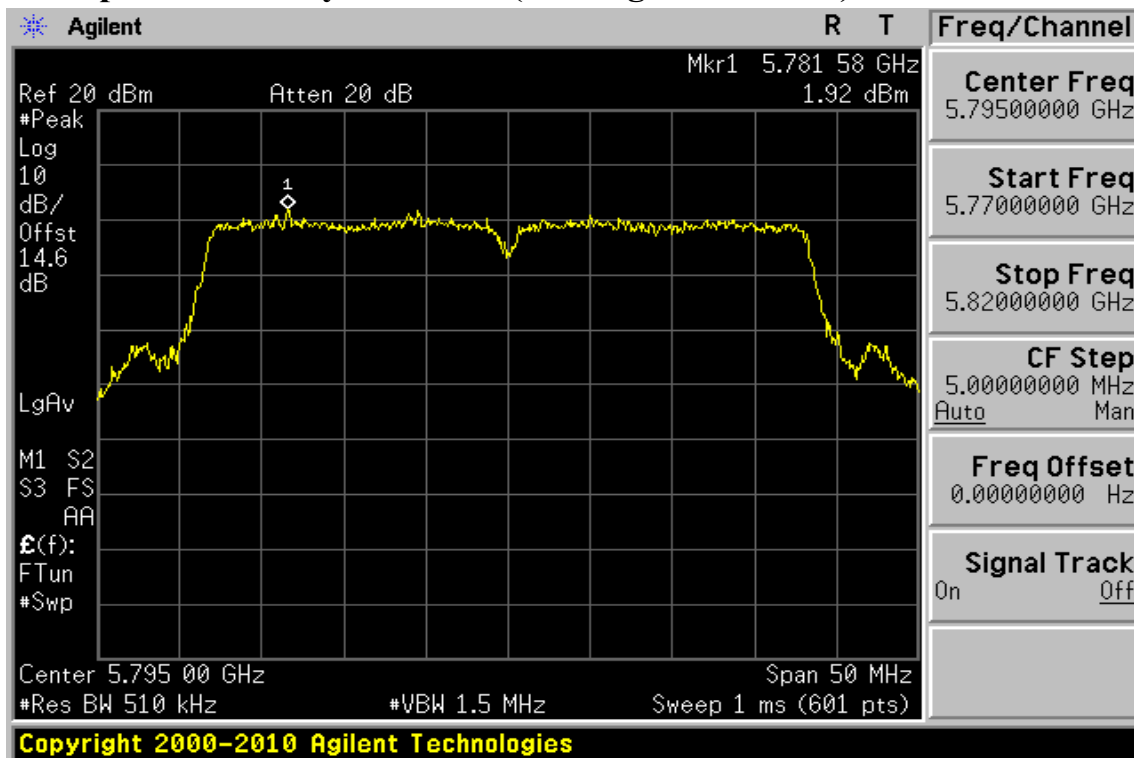
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## 802.11n HT40, 5725~5850 MHz (MIMO)

### Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



### Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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## 11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

### 11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

| APPLICABLE TO                                                    | LIMIT                                  |                                                    |
|------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|
| FCC KDB 789033 D02 General<br>UNII Test Procedures New Rules v01 | FIELD STRENGTH AT 3m                   |                                                    |
|                                                                  | PK: 74 (dB $\mu$ V/m)                  | AV 54 (dB $\mu$ V/m)                               |
| APPLICABLE TO                                                    | EIRP LIMIT                             | FIELD STRENGTH AT 3m                               |
| 15.407(b)(1)                                                     | PK: -27 (dBm/MHz)                      | PK: 68.3 (dB $\mu$ V/m)                            |
| 15.407(b)(2)                                                     |                                        |                                                    |
| 15.407(b)(3)                                                     |                                        |                                                    |
| 15.407(b)(4)                                                     | PK: -27 (dBm/MHz)<br>PK: -17 (dBm/MHz) | PK: 68.3 (dB $\mu$ V/m)<br>PK: 78.2 (dB $\mu$ V/m) |

$EIRP = (E \cdot d)^2 / 30$ , where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequency<br>(MHz) | Field strength<br>(microvolts/meter) | Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------|
| 0.009-0.490        | 2400/F(kHz)                          | 300                  |
| 0.490-1.705        | 24000/F(kHz)                         | 30                   |
| 1.705-30           | 30                                   | 30                   |
| 30-88              | 100                                  | 3                    |
| 88-216             | 150                                  | 3                    |
| 216-960            | 200                                  | 3                    |
| Above 960          | 500                                  | 3                    |

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB $\mu$ V/m) = 20 log Emission level (dB $\mu$ V/m)

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## 11.2 Measurement Equipment Used

| 966 Chamber                  |                       |              |               |            |            |
|------------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR                   | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver            | R&S                   | ESC17        | 100760        | 05/04/2015 | 05/03/2016 |
| Spectrum Analyzer            | Agilent               | E4446A       | MY51100003    | 01/29/2015 | 01/28/2016 |
| EXA Spectrum Analyzer        | Agilent               | N9010A       | MY50420195    | 12/22/2014 | 12/21/2015 |
| Spectrum Analyzer            | R&S                   | FSV-30       | 101398        | 10/07/2014 | 10/06/2015 |
| Loop Antenna                 | ETS.LINDGREN          | 6502         | 00148045      | 07/03/2014 | 07/02/2015 |
| Bilog Antenna                | SCHWAZBECK            | VULB9168     | 378           | 12/23/2014 | 12/22/2015 |
| Horn antenna                 | ETS.LINDGREN          | 3117         | 123995        | 05/05/2015 | 05/04/2016 |
| Horn Antenna                 | Schwarzbeck           | BBHA9170     | 184           | 12/25/2014 | 12/24/2015 |
| Pre-Amplifier                | EMC Instruments Corp. | EMC0126530   | 980038        | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier                | Agilent               | 8447D        | 2944A07676    | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier                | Agilent               | 8449B        | 3008A00578    | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier                | EMC Instruments Corp. | EMC184045    | 980135        | 01/02/2015 | 01/01/2016 |
| 5150-5350 Band Reject Filter | Micro-Tronics         | BRM50703     | 1             | 01/02/2015 | 01/01/2016 |
| 5470-5725 Band Reject Filter | Micro-Tronics         | BRM50704     | 1             | 01/02/2015 | 01/01/2016 |
| 5725-5875 Band Reject Filter | Micro-Tronics         | BRM50705     | 1             | 01/02/2015 | 01/01/2016 |
| 1GHz High Pass Filter        | Micro-Tronics         | HPM50108     | 32            | 01/02/2015 | 01/01/2016 |
| 2GHz High Pass Filter        | Micro-Tronics         | HPM50110     | 36            | 01/02/2015 | 01/01/2016 |
| Attenuator                   | Mini-Circuit          | BW-S10W2+    | 002           | 01/02/2015 | 01/01/2016 |
| Turn Table                   | HD                    | DT420        | N/A           | N.C.R      | N.C.R      |
| Antenna Tower                | HD                    | MA240-N      | 240/657       | N.C.R      | N.C.R      |
| Controller                   | HD                    | HD100        | N/A           | N.C.R      | N.C.R      |
| Low Loss Cable               | Huber Suhner          | 966_Rx       | 9             | 01/02/2015 | 01/01/2016 |
| 3m Site NSA                  | SGS                   | 966 chamber  | N/A           | 07/15/2014 | 07/14/2015 |

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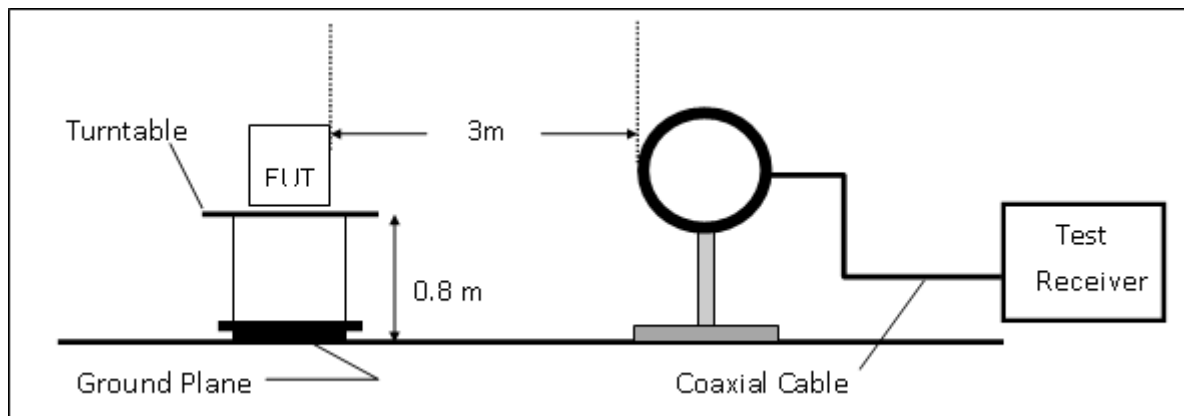
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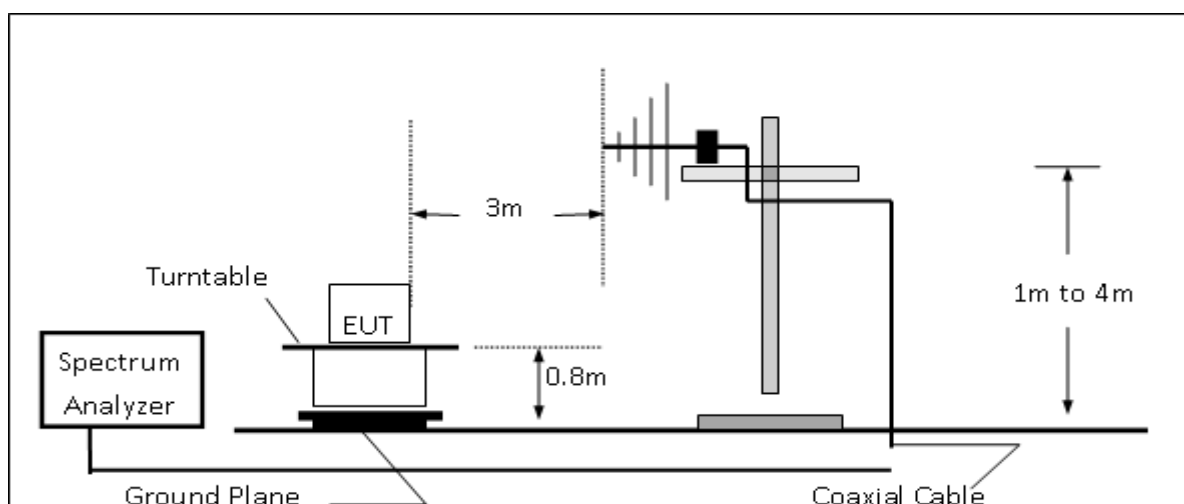
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## 11.3 Test SET-UP

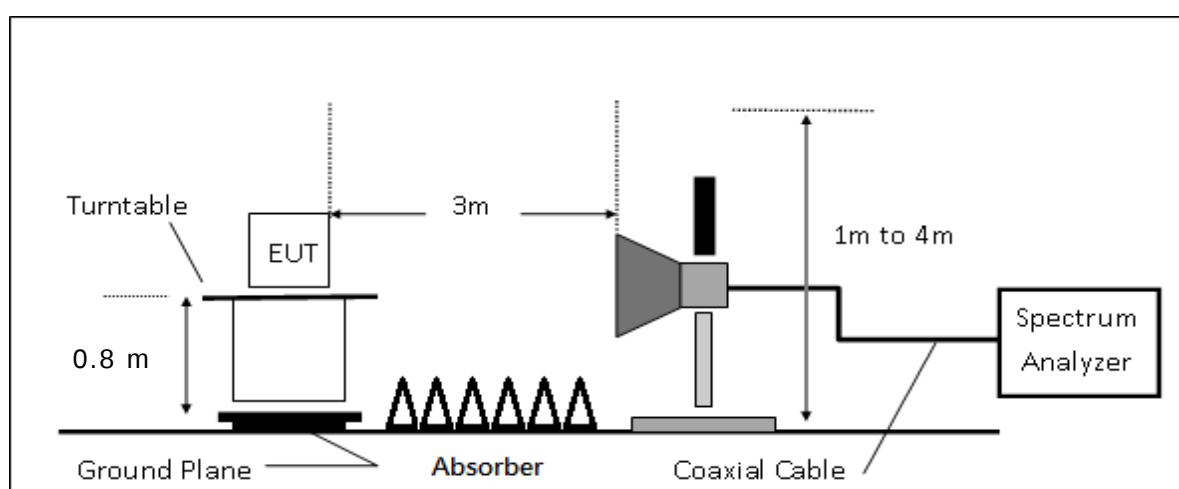
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



### (B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



### (C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 0.8m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

## 11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|       |                        |                                            |
|-------|------------------------|--------------------------------------------|
| Where | FS = Field Strength    | CL = Cable Attenuation Factor (Cable Loss) |
|       | RA = Reading Amplitude | AG = Amplifier Gain                        |
|       | AF = Antenna Factor    |                                            |

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre\_Amplifier Gain(dB)}$$

### Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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## 11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

## 11.7 Measurement Result

Refer to attach tabular data sheets.

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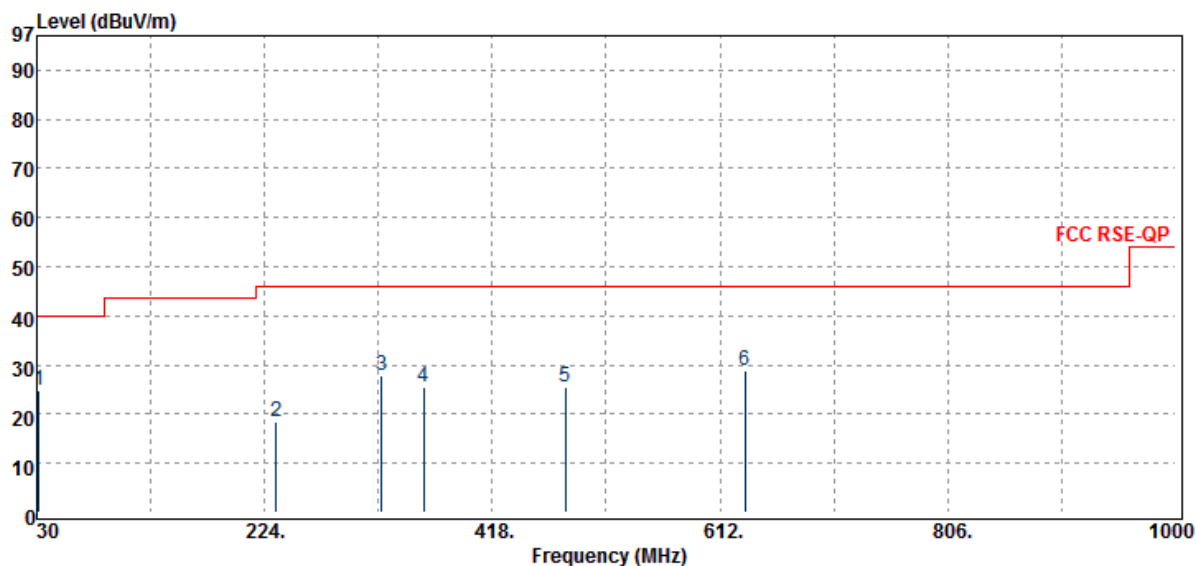
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## Radiated Spurious Emission Measurement Result

## Below 1GHz Worst-Case Data:

## 802.11a, 5150~5250 MHz

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5220 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|--------|---------|----------|---------------|--------|----------------|----------------|--------|
|        |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz    | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 31.94  | S       | Peak     | 34.99         | -10.22 | 24.77          | 40.00          | -15.23 |
| 233.70 | S       | Peak     | 29.05         | -10.69 | 18.36          | 46.00          | -27.64 |
| 323.91 | S       | Peak     | 35.68         | -7.67  | 28.01          | 46.00          | -17.99 |
| 359.80 | S       | Peak     | 32.41         | -7.03  | 25.38          | 46.00          | -20.62 |
| 480.08 | S       | Peak     | 30.23         | -4.59  | 25.64          | 46.00          | -20.36 |
| 633.34 | S       | Peak     | 31.24         | -2.44  | 28.80          | 46.00          | -17.20 |

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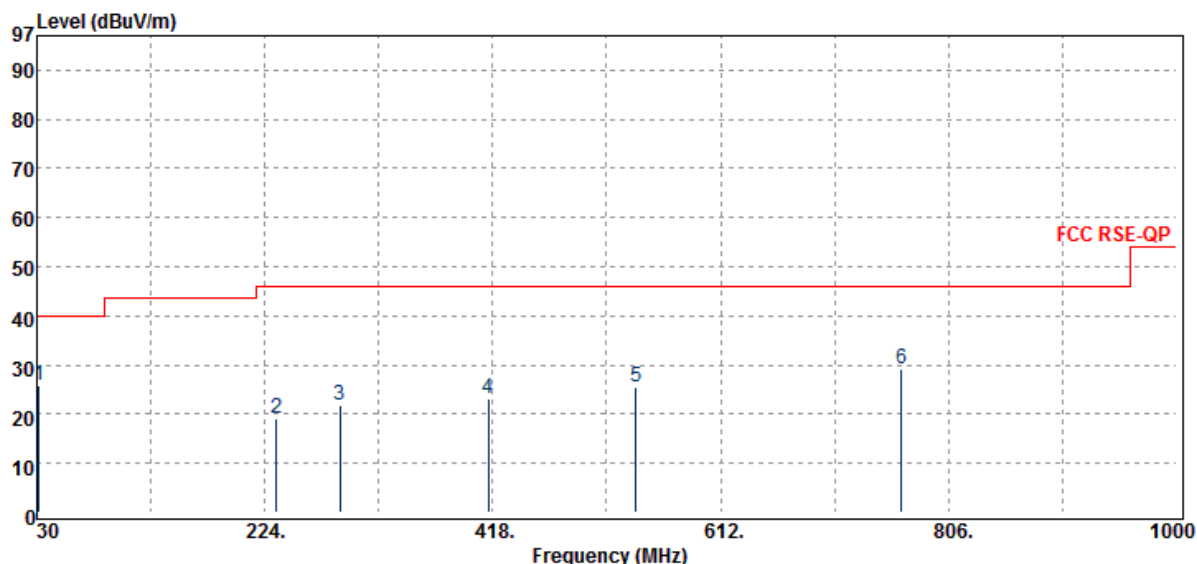
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5220 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|--------|---------|----------|---------------|--------|----------|----------|--------|
| MHz    | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|        |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 31.94  | S       | Peak     | 35.97         | -10.22 | 25.75    | 40.00    | -14.25 |
| 233.70 | S       | Peak     | 29.84         | -10.69 | 19.15    | 46.00    | -26.85 |
| 288.02 | S       | Peak     | 29.96         | -8.24  | 21.72    | 46.00    | -24.28 |
| 414.12 | S       | Peak     | 28.97         | -5.75  | 23.22    | 46.00    | -22.78 |
| 540.22 | S       | Peak     | 29.53         | -4.01  | 25.52    | 46.00    | -20.48 |
| 766.23 | S       | Peak     | 28.26         | 1.09   | 29.35    | 46.00    | -16.65 |

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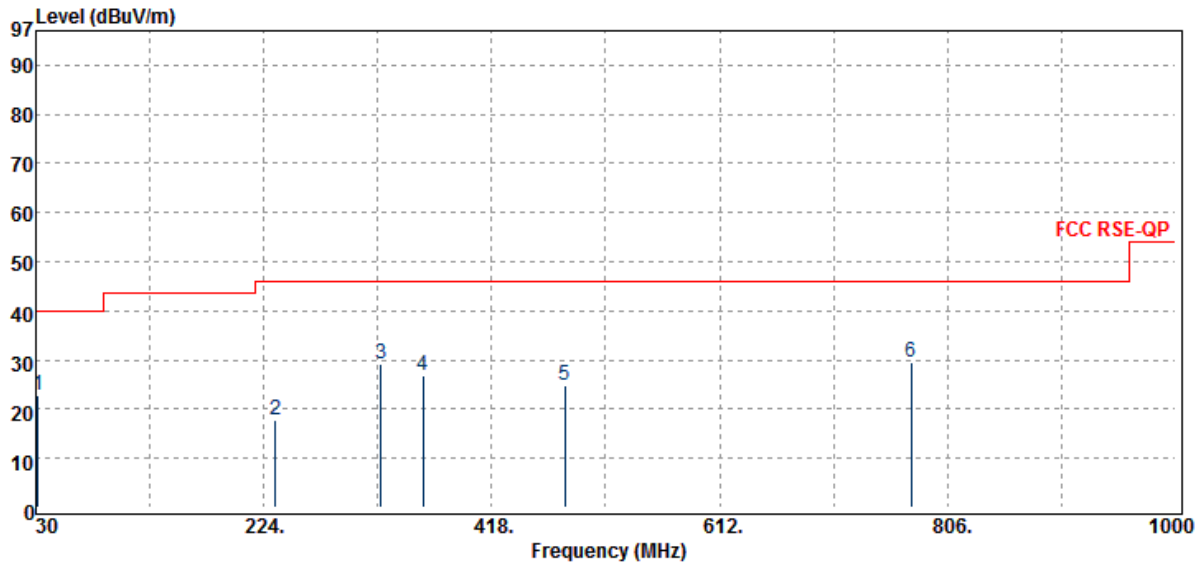
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**802.11a, 5250~5350 MHz**

Operation Band :802.11 a  
 Fundamental Frequency :5300 MHz  
 Operation Mode :TX MID  
 EUT Pol. :E1 Plan

Test Date :2015-06-25  
 Temp./Humi. :23 deg\_C / 58 RH  
 Engineer :Curry  
 Measurement Antenna Pol. :VERTICAL



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|--------|---------|----------|---------------|--------|----------|----------|--------|
| MHz    | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz    | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 31.94  | S       | Peak     | 32.91         | -10.22 | 22.69    | 40.00    | -17.31 |
| 233.70 | S       | Peak     | 28.32         | -10.69 | 17.63    | 46.00    | -28.37 |
| 323.91 | S       | Peak     | 36.90         | -7.67  | 29.23    | 46.00    | -16.77 |
| 359.80 | S       | Peak     | 33.72         | -7.03  | 26.69    | 46.00    | -19.31 |
| 480.08 | S       | Peak     | 29.34         | -4.59  | 24.75    | 46.00    | -21.25 |
| 774.96 | S       | Peak     | 28.72         | 0.73   | 29.45    | 46.00    | -16.55 |

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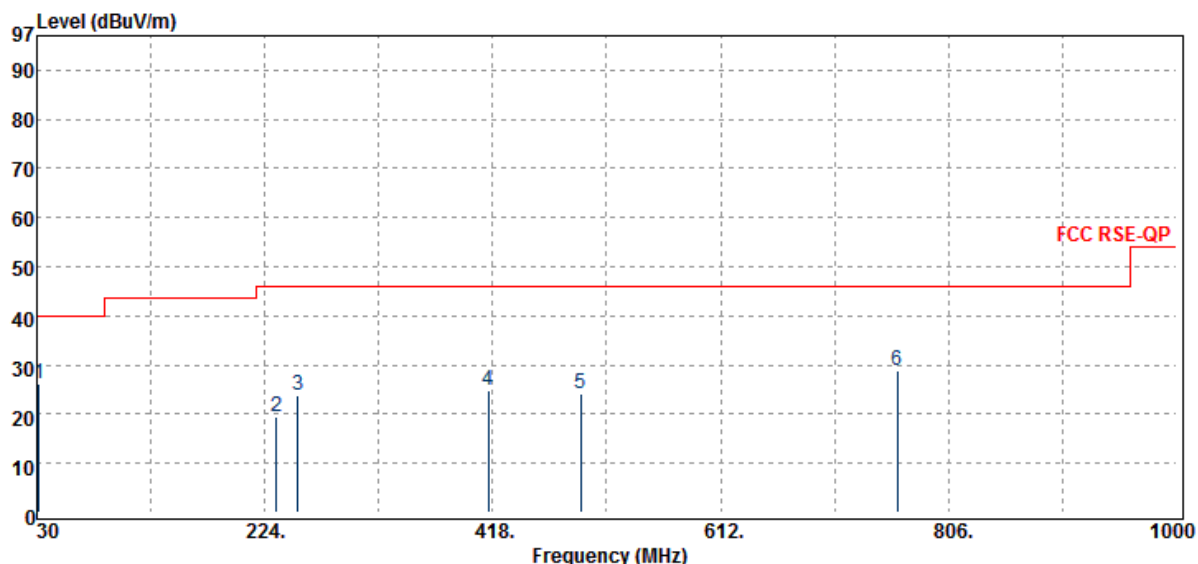
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5300 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|--------|---------|----------|---------------|--------|----------|----------|--------|
|        |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz    | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 31.94  | S       | Peak     | 36.36         | -10.22 | 26.14    | 40.00    | -13.86 |
| 233.70 | S       | Peak     | 30.23         | -10.69 | 19.54    | 46.00    | -26.46 |
| 252.13 | S       | Peak     | 33.58         | -9.79  | 23.79    | 46.00    | -22.21 |
| 414.12 | S       | Peak     | 30.72         | -5.75  | 24.97    | 46.00    | -21.03 |
| 492.69 | S       | Peak     | 28.41         | -4.29  | 24.12    | 46.00    | -21.88 |
| 762.35 | S       | Peak     | 27.78         | 1.14   | 28.92    | 46.00    | -17.08 |

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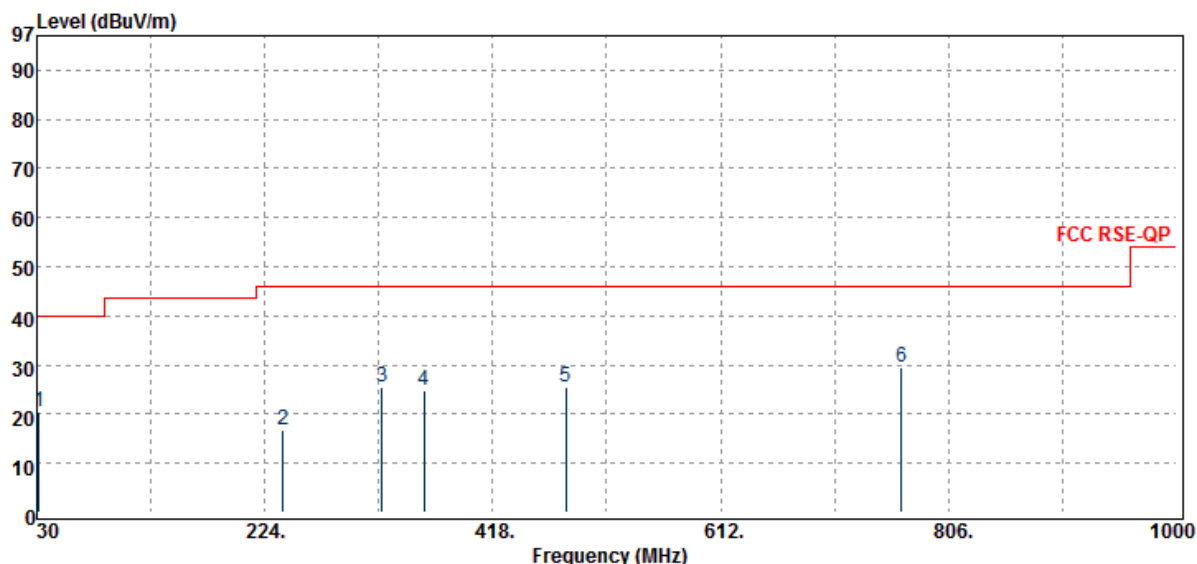
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**802.11a, 5470~5725 MHz**

Operation Band :802.11 a  
 Fundamental Frequency :5580 MHz  
 Operation Mode :TX MID  
 EUT Pol. :E1 Plan

Test Date :2015-06-25  
 Temp./Humi. :23 deg\_C / 58 RH  
 Engineer :Curry  
 Measurement Antenna Pol. :VERTICAL



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|--------|---------|----------|---------------|--------|----------|----------|--------|
| MHz    | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz    | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 31.94  | S       | Peak     | 30.67         | -10.22 | 20.45    | 40.00    | -19.55 |
| 239.52 | S       | Peak     | 27.01         | -10.28 | 16.73    | 46.00    | -29.27 |
| 323.91 | S       | Peak     | 33.05         | -7.67  | 25.38    | 46.00    | -20.62 |
| 359.80 | S       | Peak     | 31.96         | -7.03  | 24.93    | 46.00    | -21.07 |
| 480.08 | S       | Peak     | 30.10         | -4.59  | 25.51    | 46.00    | -20.49 |
| 766.23 | S       | Peak     | 28.60         | 1.09   | 29.69    | 46.00    | -16.31 |

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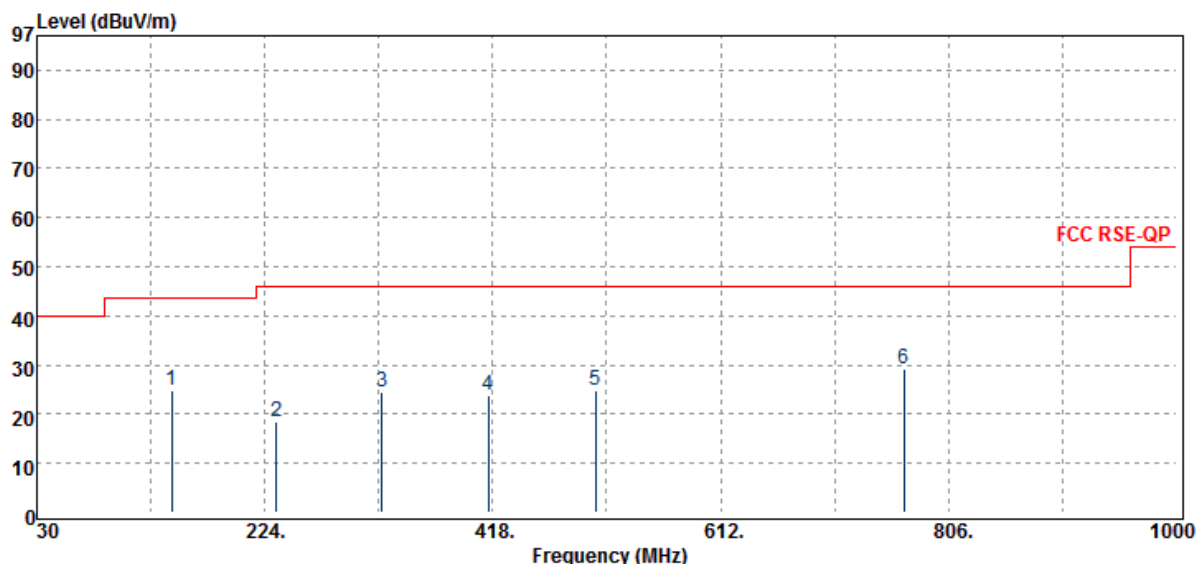
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5580 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|--------|---------|----------|---------------|--------|----------------|----------------|--------|
|        |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz    | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 144.46 | S       | Peak     | 34.58         | -9.69  | 24.89          | 43.50          | -18.61 |
| 233.70 | S       | Peak     | 29.24         | -10.69 | 18.55          | 46.00          | -27.45 |
| 323.91 | S       | Peak     | 32.32         | -7.67  | 24.65          | 46.00          | -21.35 |
| 414.12 | S       | Peak     | 29.67         | -5.75  | 23.92          | 46.00          | -22.08 |
| 505.30 | S       | Peak     | 29.22         | -4.43  | 24.79          | 46.00          | -21.21 |
| 768.17 | S       | Peak     | 28.28         | 1.03   | 29.31          | 46.00          | -16.69 |

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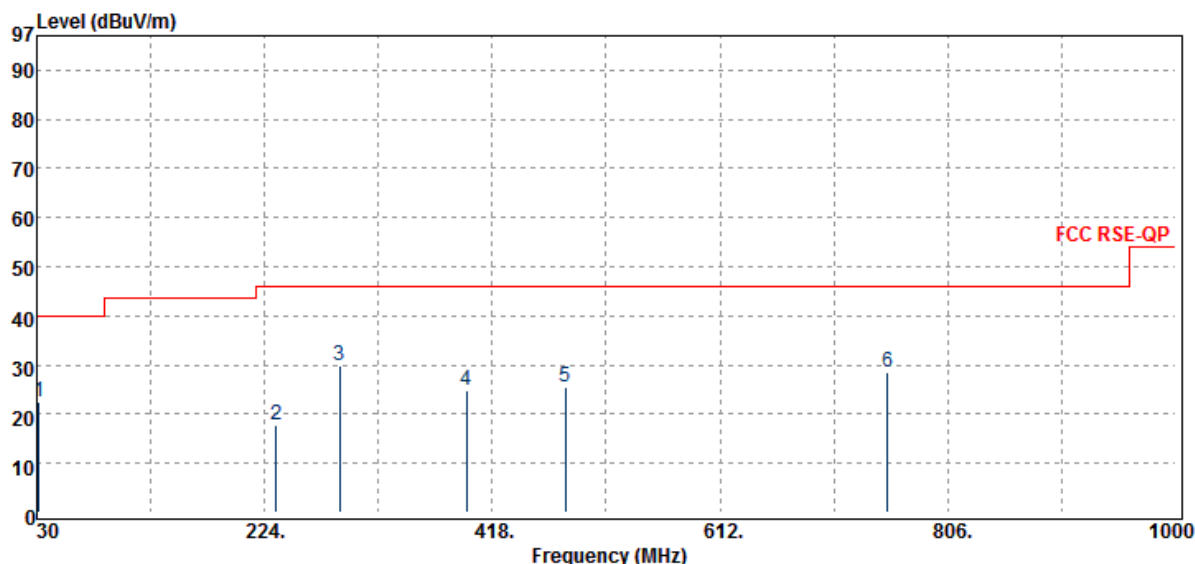
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**802.11a, 5725~5850 MHz**

Operation Band :802.11 a  
 Fundamental Frequency :5785 MHz  
 Operation Mode :TX MID  
 EUT Pol. :E1 Plan

Test Date :2015-06-25  
 Temp./Humi. :23 deg\_C / 58 RH  
 Engineer :Curry  
 Measurement Antenna Pol. :VERTICAL



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|--------|---------|----------|---------------|--------|----------|----------|--------|
|        |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz    | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 31.94  | S       | Peak     | 32.65         | -10.22 | 22.43    | 40.00    | -17.57 |
| 233.70 | S       | Peak     | 28.54         | -10.69 | 17.85    | 46.00    | -28.15 |
| 288.02 | S       | Peak     | 38.19         | -8.24  | 29.95    | 46.00    | -16.05 |
| 395.69 | S       | Peak     | 30.84         | -6.07  | 24.77    | 46.00    | -21.23 |
| 480.08 | S       | Peak     | 30.21         | -4.59  | 25.62    | 46.00    | -20.38 |
| 754.59 | S       | Peak     | 27.65         | 0.73   | 28.38    | 46.00    | -17.62 |

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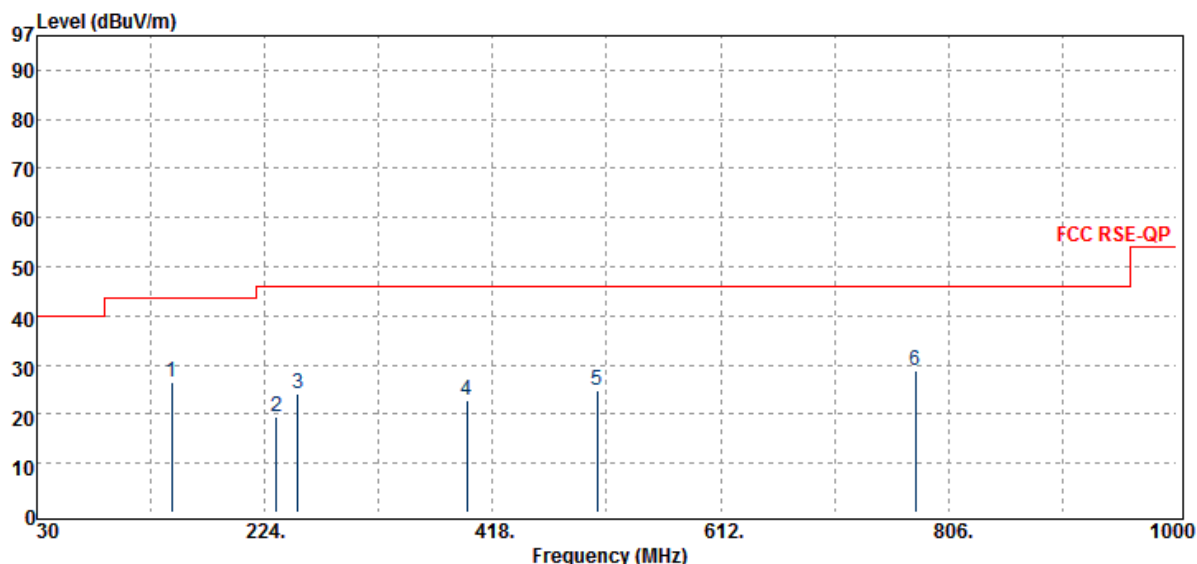
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5785 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|--------|---------|----------|---------------|--------|----------------|----------------|--------|
| MHz    | F/H/E/S | Mode     | Reading Level |        | FS             | @3m            |        |
|        |         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 144.46 | S       | Peak     | 36.30         | -9.69  | 26.61          | 43.50          | -16.89 |
| 233.70 | S       | Peak     | 30.31         | -10.69 | 19.62          | 46.00          | -26.38 |
| 252.13 | S       | Peak     | 33.90         | -9.79  | 24.11          | 46.00          | -21.89 |
| 395.69 | S       | Peak     | 28.80         | -6.07  | 22.73          | 46.00          | -23.27 |
| 507.24 | S       | Peak     | 29.30         | -4.47  | 24.83          | 46.00          | -21.17 |
| 777.87 | S       | Peak     | 28.40         | 0.50   | 28.90          | 46.00          | -17.10 |

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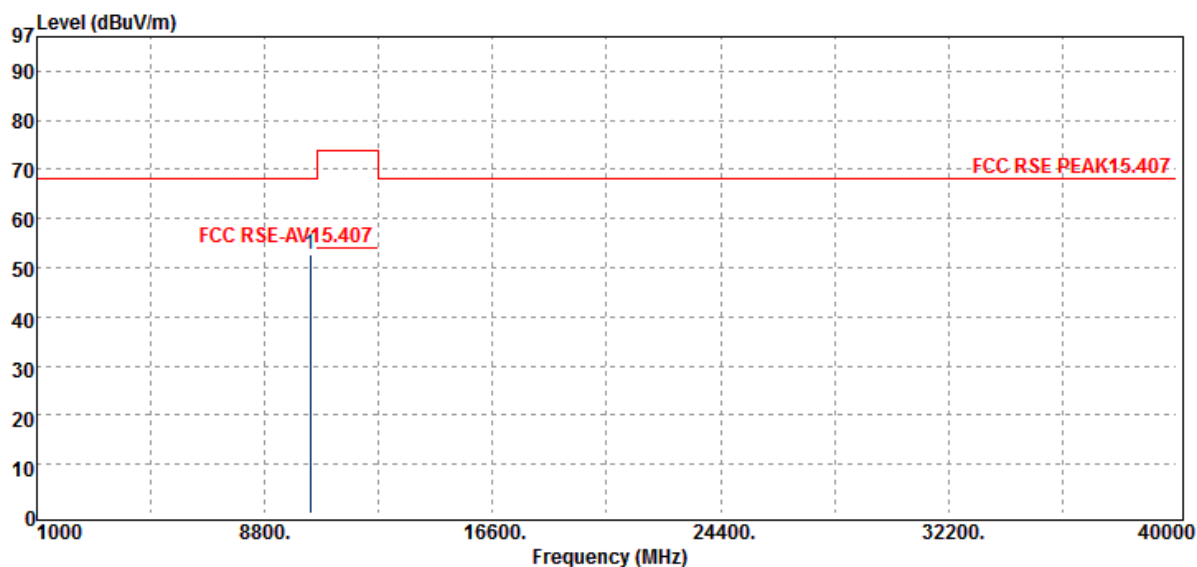
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**Above 1GHz Worst-Case Data:****802.11a, 5150~5250 MHz**

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5180 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 10360.00 | H       | Peak     | 34.89         | 17.65  | 52.54          | 68.30          | -15.76 |

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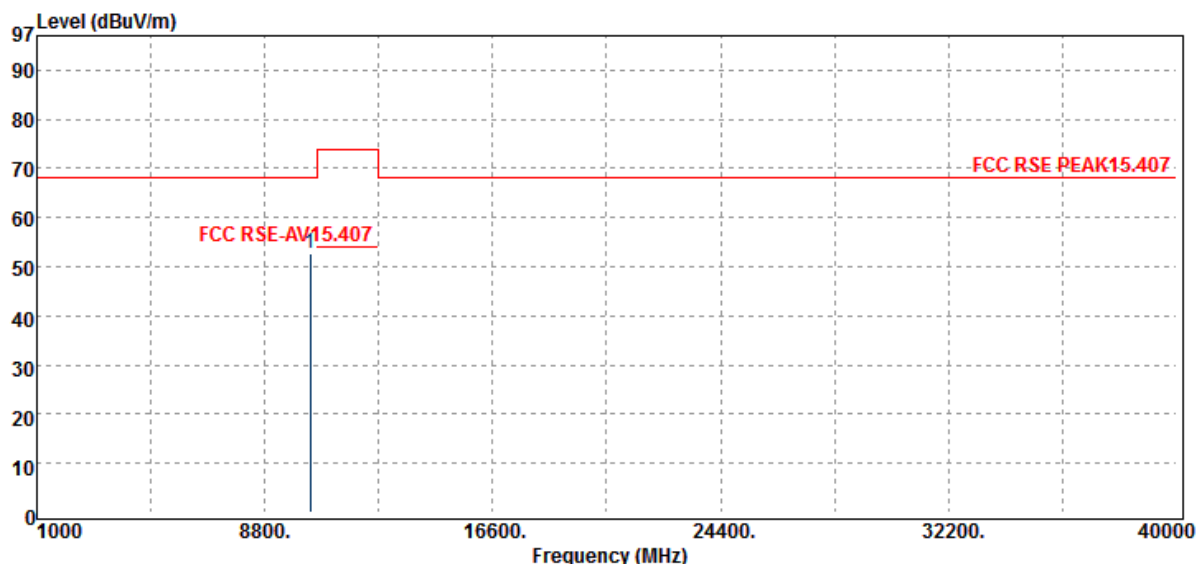
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5180 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10360.00 | H       | Peak     | 35.07         | 17.65  | 52.72    | 68.30    | -15.58 |

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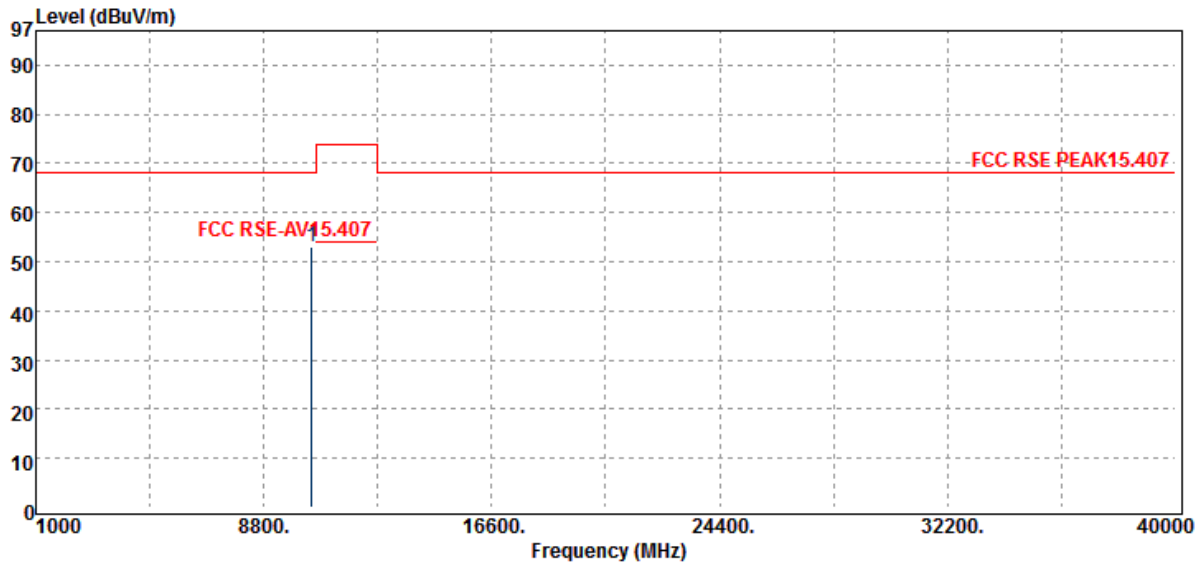
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5220 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10440.00 | H       | Peak     | 34.43         | 18.47  | 52.90    | 68.30    | -15.40 |

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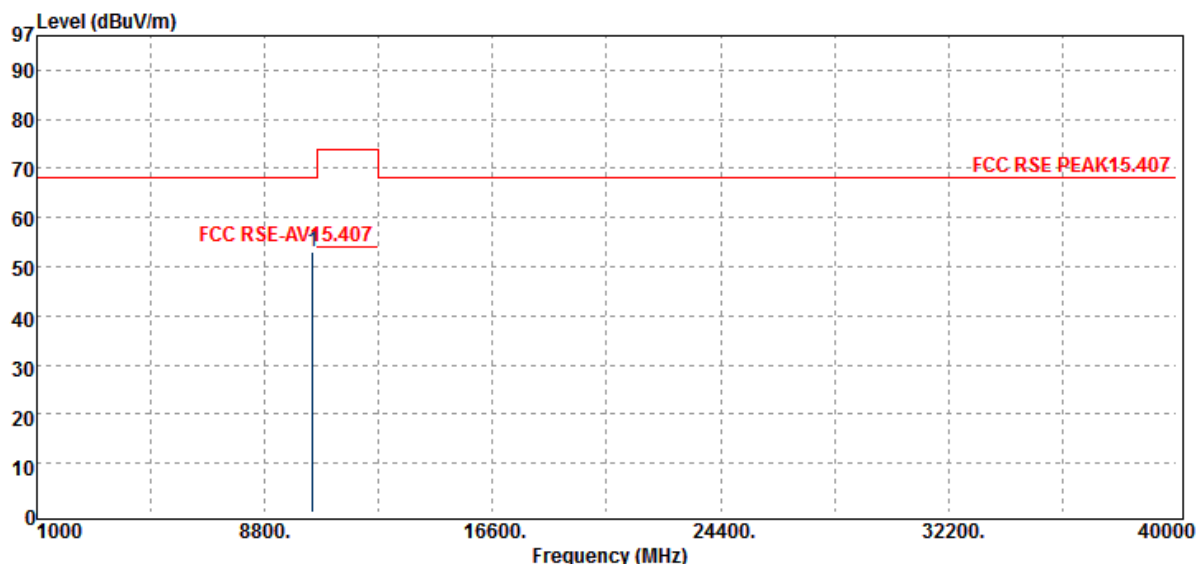
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5220 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10440.00 | H       | Peak     | 34.45         | 18.47  | 52.92    | 68.30    | -15.38 |

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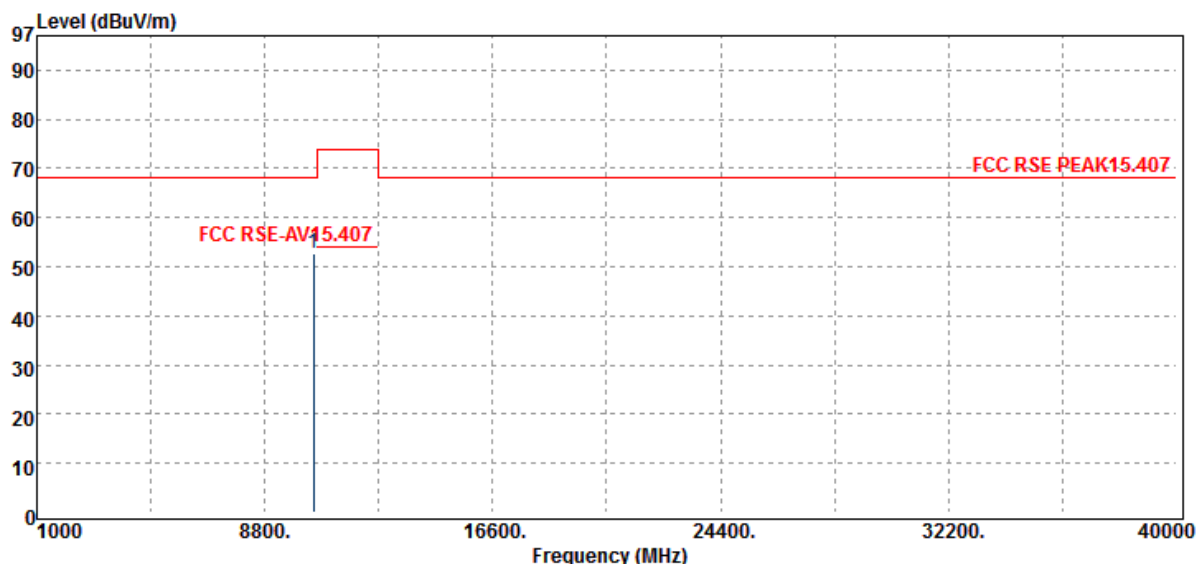
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5240 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10480.00 | H       | Peak     | 34.62         | 18.23  | 52.85    | 68.30    | -15.45 |

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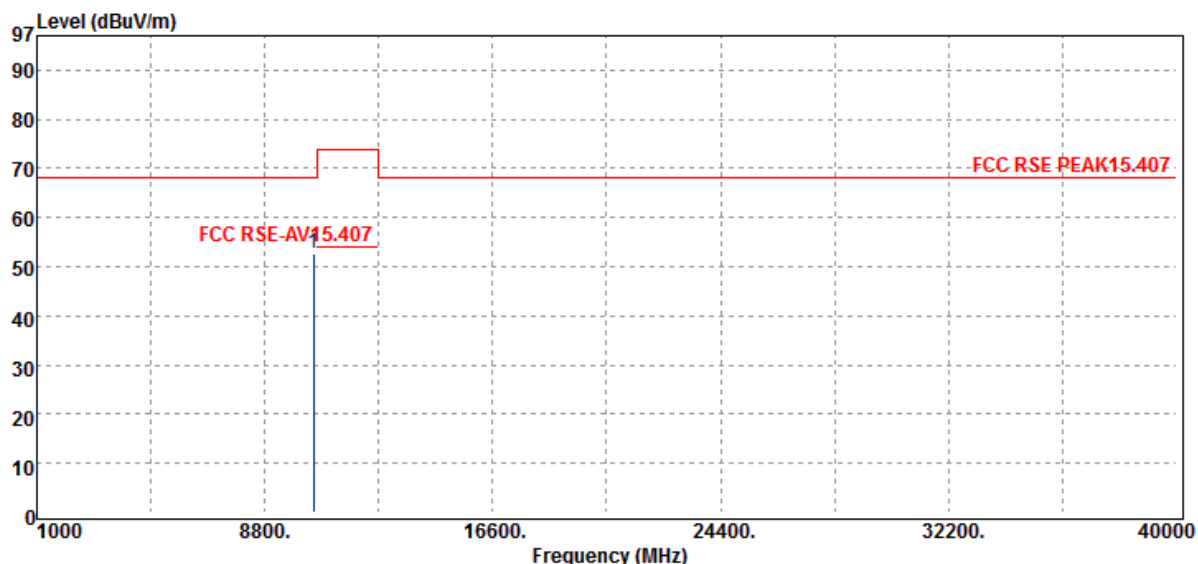
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5240 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10480.00 | H       | Peak     | 34.42         | 18.23  | 52.65    | 68.30    | -15.65 |

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**Band edge falling to restricted band**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2015-06-23       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 40.61                     | 9.74   | 50.35        | 54.00        | -3.65  |
| 5150.00 | E       | Peak             | 61.37                     | 9.74   | 71.11        | 74.00        | -2.89  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2015-06-23       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 41.24                     | 9.74   | 50.98        | 54.00        | -3.02  |
| 5150.00 | E       | Peak             | 63.23                     | 9.74   | 72.97        | 74.00        | -1.03  |

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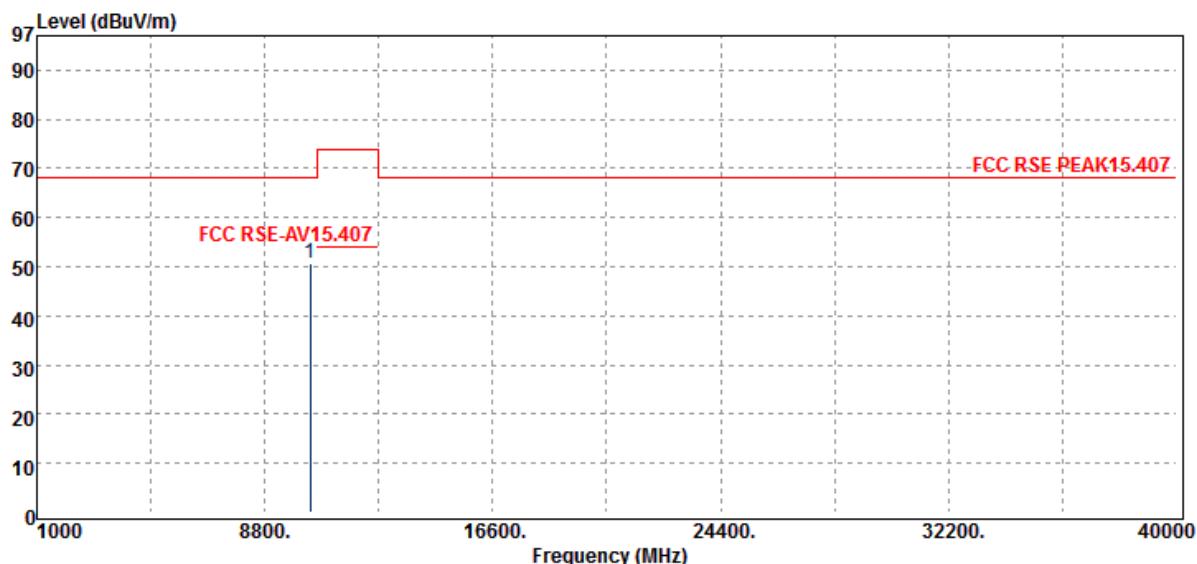
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz (MIMO)**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5180 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10360.00 | H       | Peak     | 33.01         | 17.65  | 50.66    | 68.30    | -17.64 |

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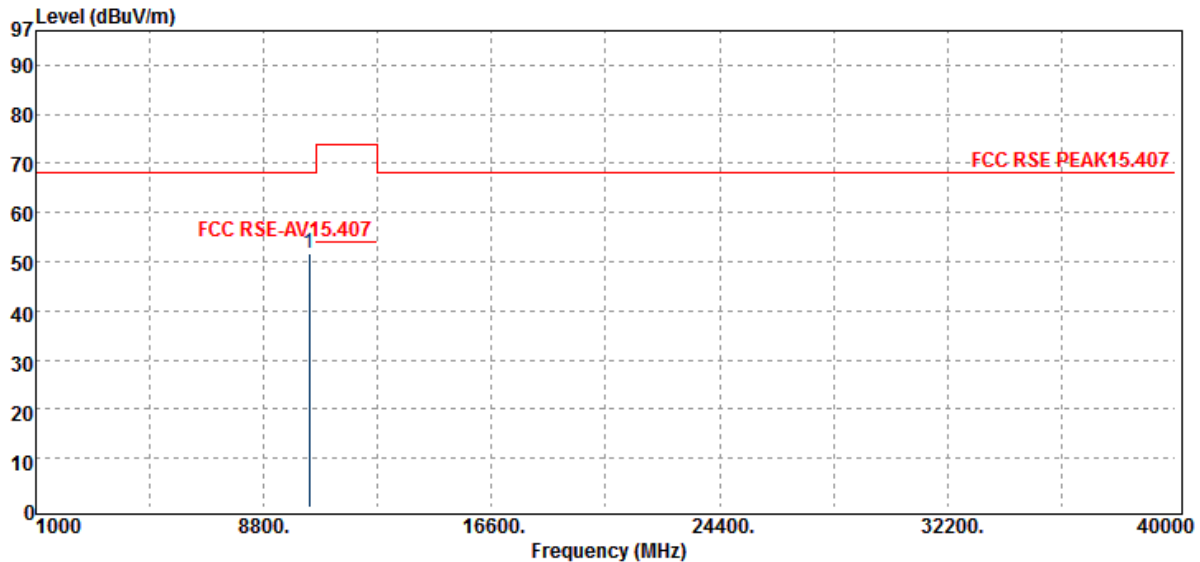
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5180 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10360.00 | H       | Peak     | 34.13         | 17.65  | 51.78    | 68.30    | -16.52 |

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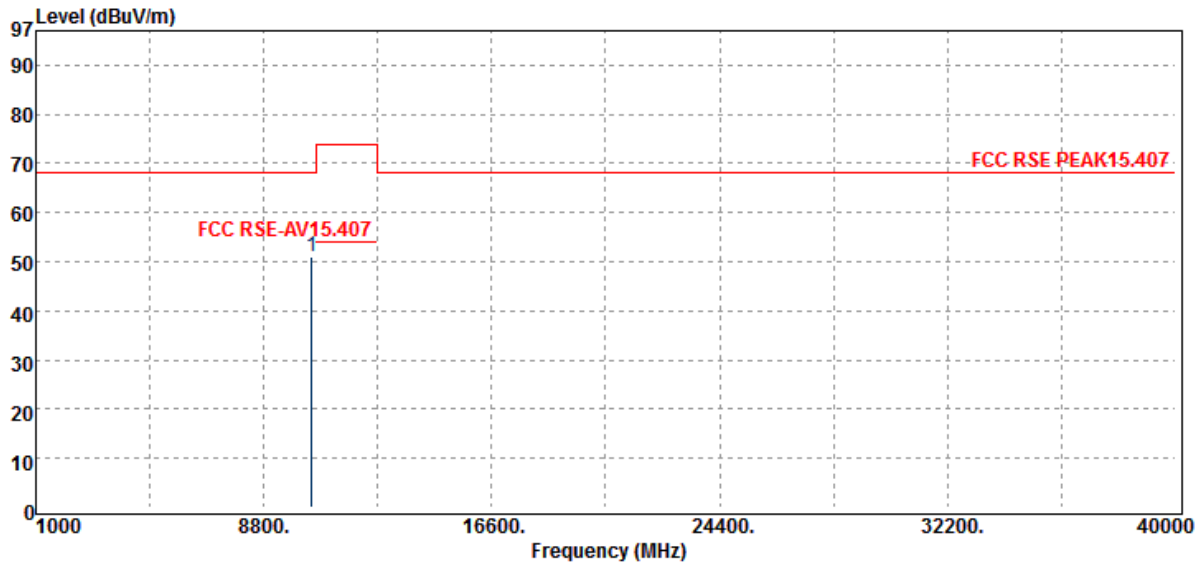
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5220 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10440.00 | H       | Peak     | 32.63         | 18.47  | 51.10    | 68.30    | -17.20 |

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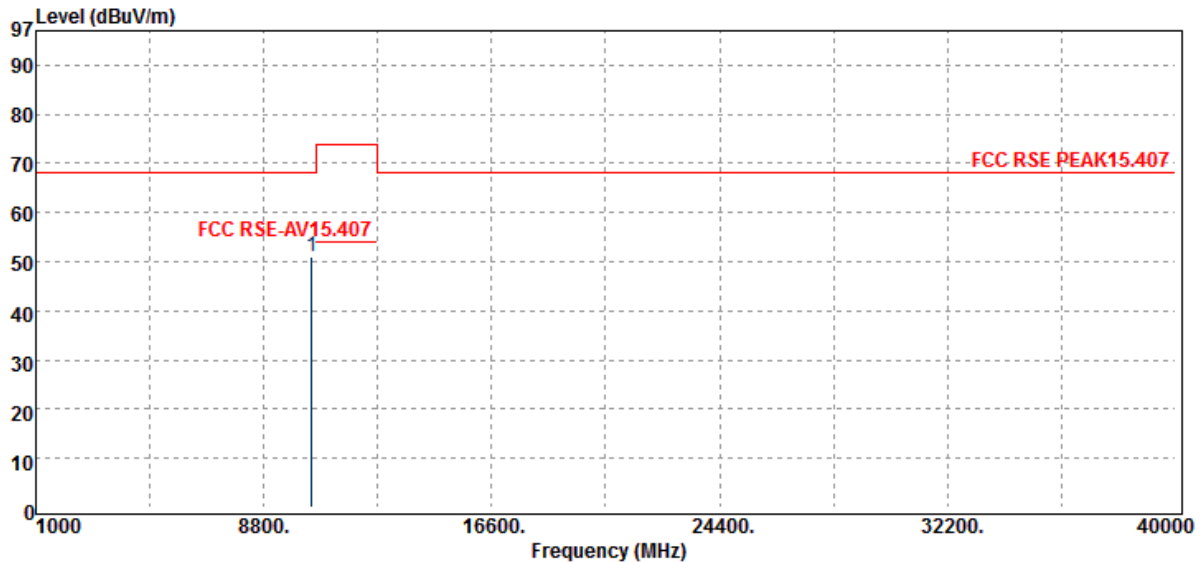
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5220 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10440.00 | H       | Peak     | 32.64         | 18.47  | 51.11    | 68.30    | -17.19 |

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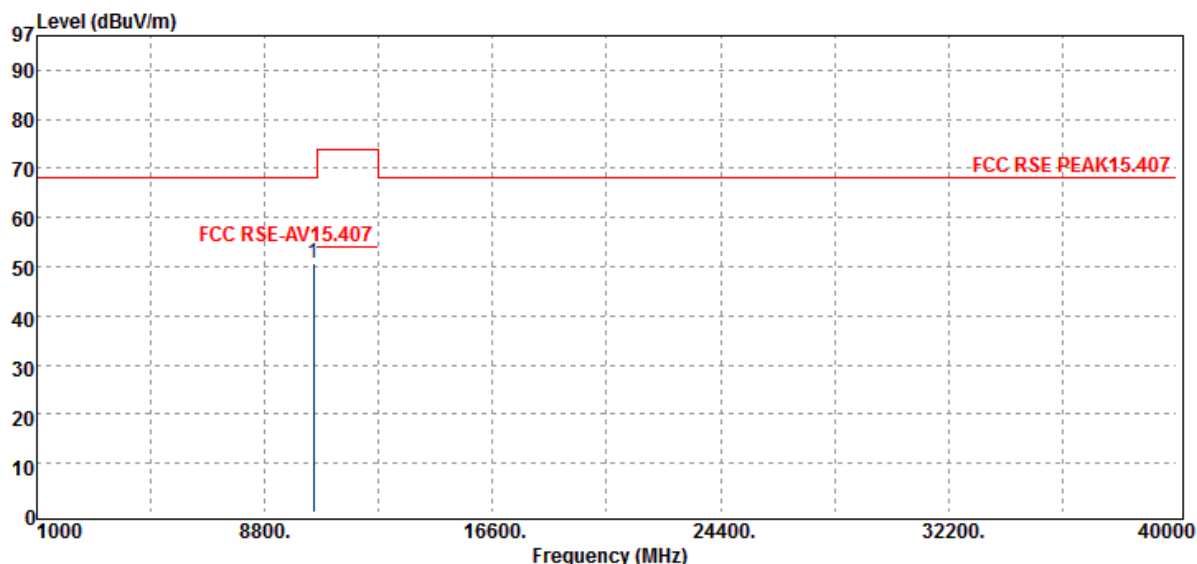
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5240 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10480.00 | H       | Peak     | 32.59         | 18.23  | 50.82    | 68.30    | -17.48 |

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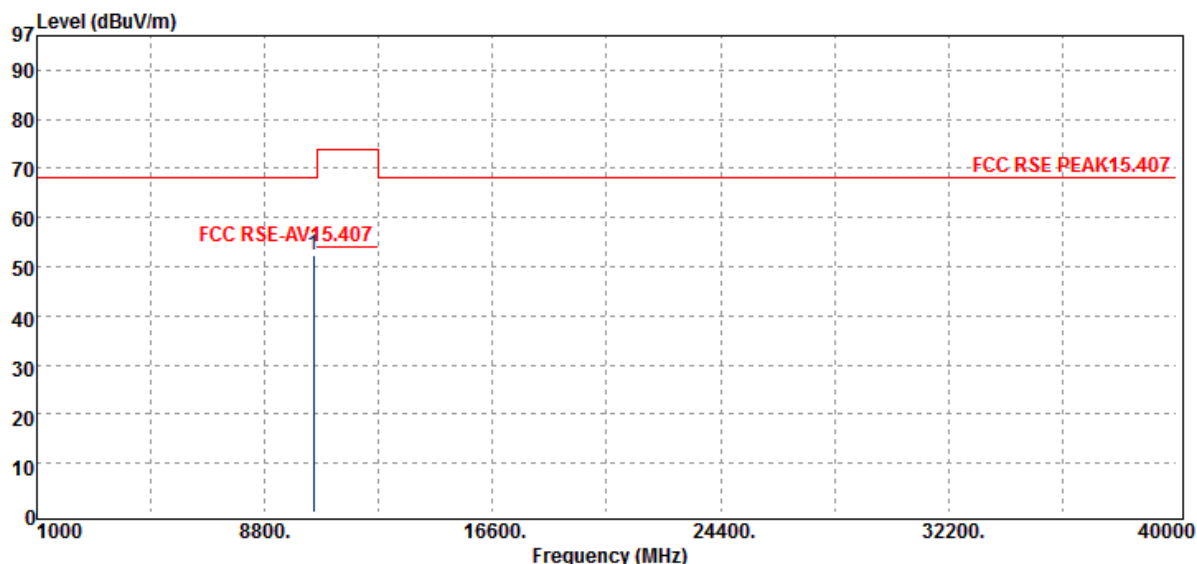
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5240 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10480.00 | H       | Peak     | 34.29         | 18.23  | 52.52    | 68.30    | -15.78 |

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**Band edge falling to restricted band**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 40.93                     | 10.32  | 51.25        | 54.00        | -2.75  |
| 5150.00 | E       | Peak             | 58.49                     | 10.32  | 68.81        | 74.00        | -5.19  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5180 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL       |

Actual FS(dBμV / m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 41.22                     | 10.32  | 51.54        | 54.00        | -2.46  |
| 5150.00 | E       | Peak             | 60.07                     | 10.32  | 70.39        | 74.00        | -3.61  |

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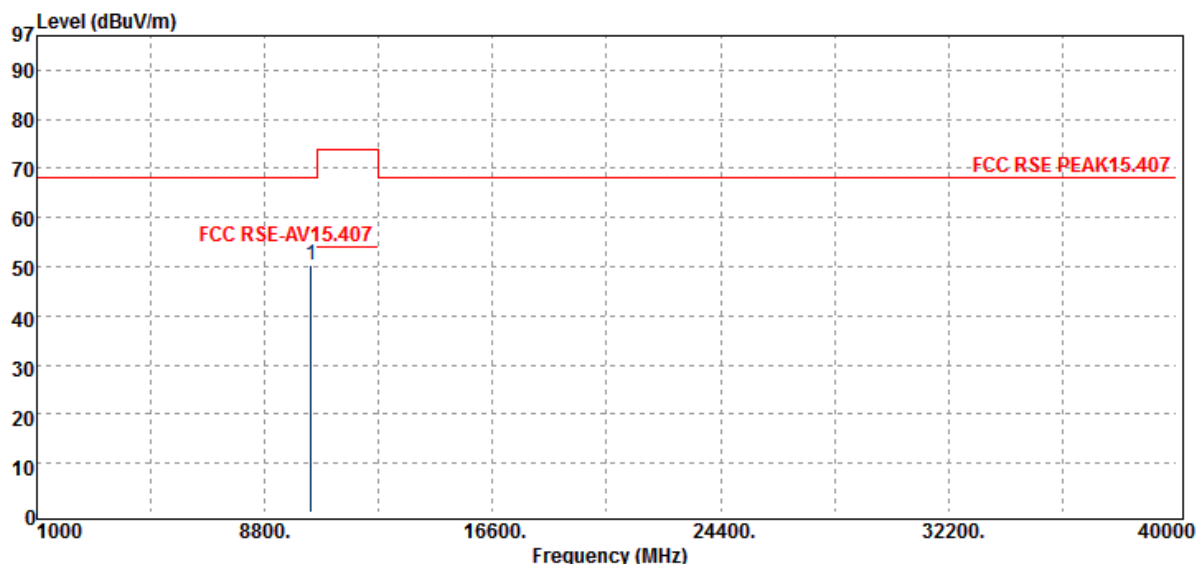
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz (MIMO)

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5190 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10380.00 | H       | Peak     | 32.43         | 18.00  | 50.43    | 68.30    | -17.87 |

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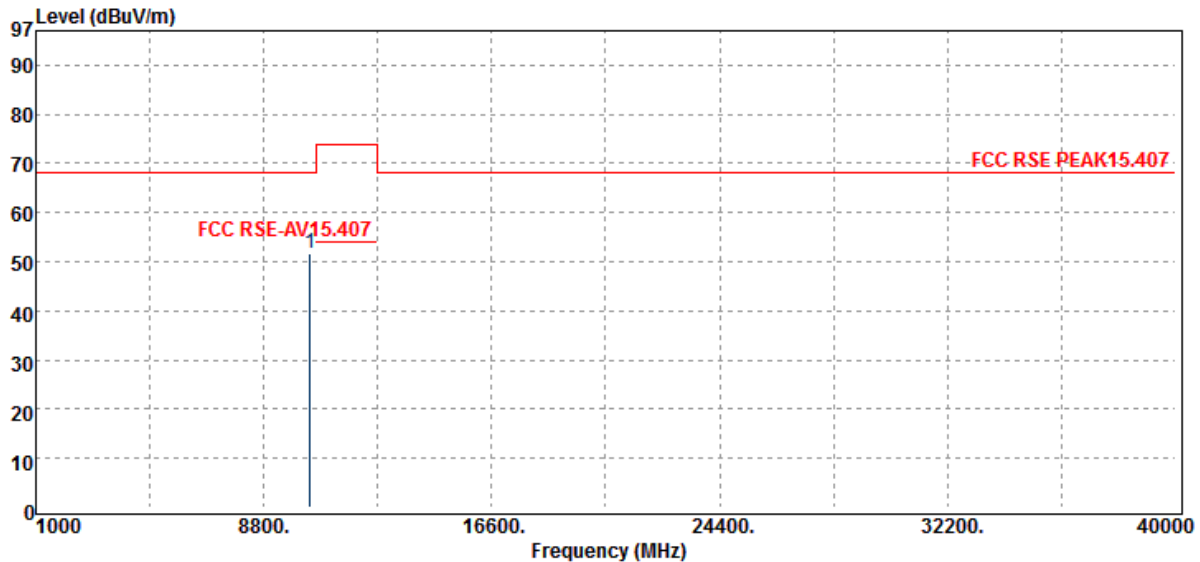
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5190 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10380.00 | H       | Peak     | 33.60         | 18.00  | 51.60    | 68.30    | -16.70 |

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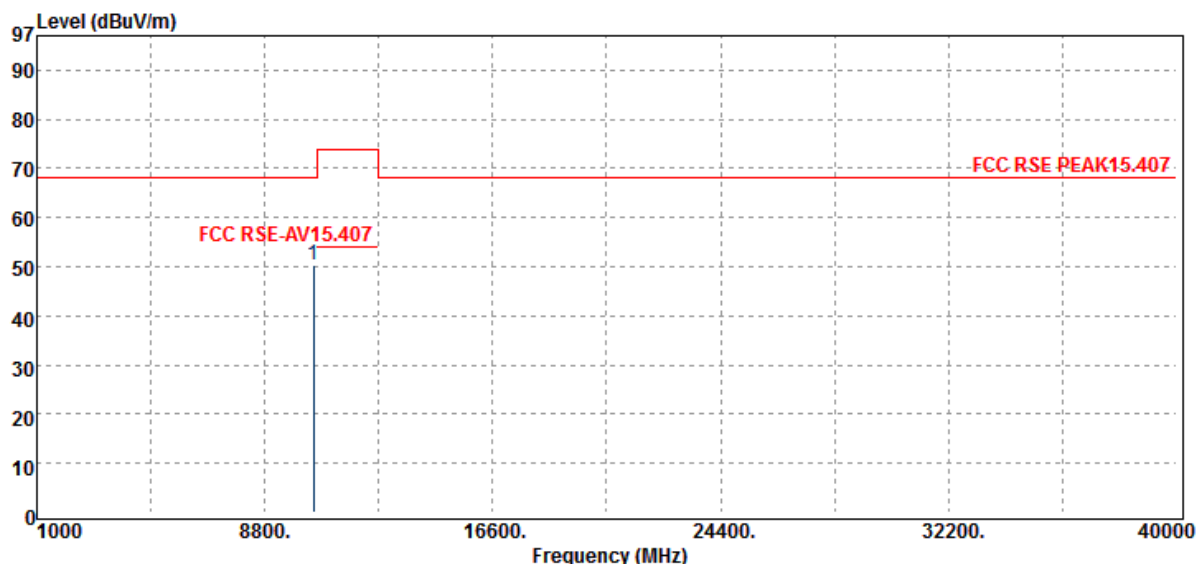
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5230 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10460.00 | H       | Peak     | 32.10         | 18.36  | 50.46    | 68.30    | -17.84 |

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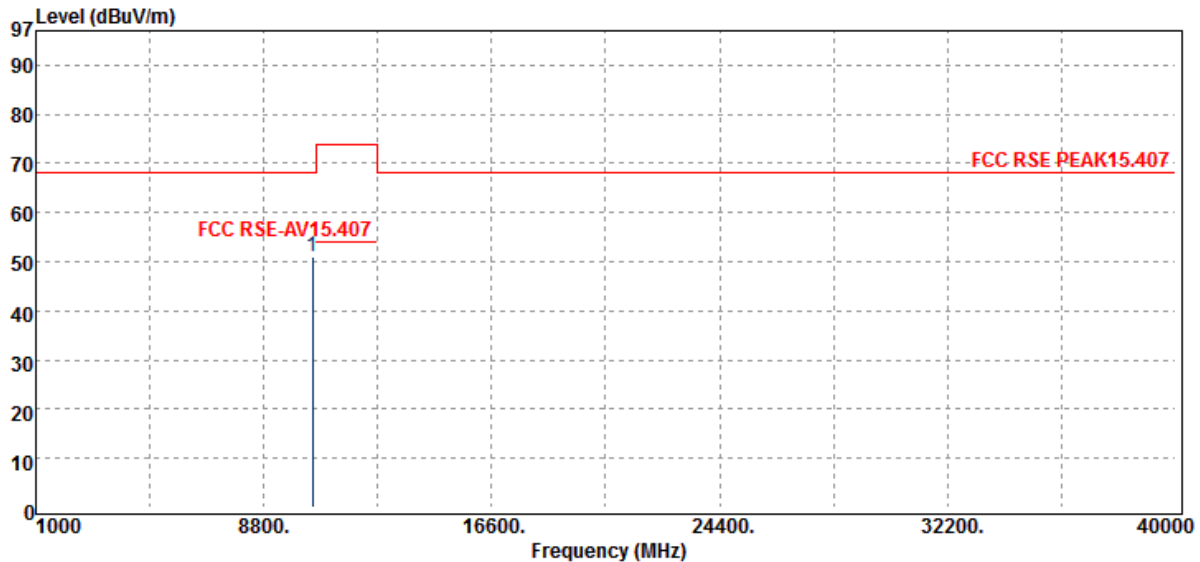
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Operation Band :802.11 n40M  
Fundamental Frequency :5230 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10460.00 | H       | Peak     | 32.82         | 18.36  | 51.18    | 68.30    | -17.12 |

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**Band edge falling to restricted band**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5190 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 42.79                     | 10.32  | 53.11        | 54.00        | -0.89  |
| 5150.00 | E       | Peak             | 60.18                     | 10.32  | 70.50        | 74.00        | -3.50  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5190 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5150.00 | E       | Average          | 42.38                     | 10.32  | 52.70        | 54.00        | -1.30  |
| 5150.00 | E       | Peak             | 61.15                     | 10.32  | 71.47        | 74.00        | -2.53  |

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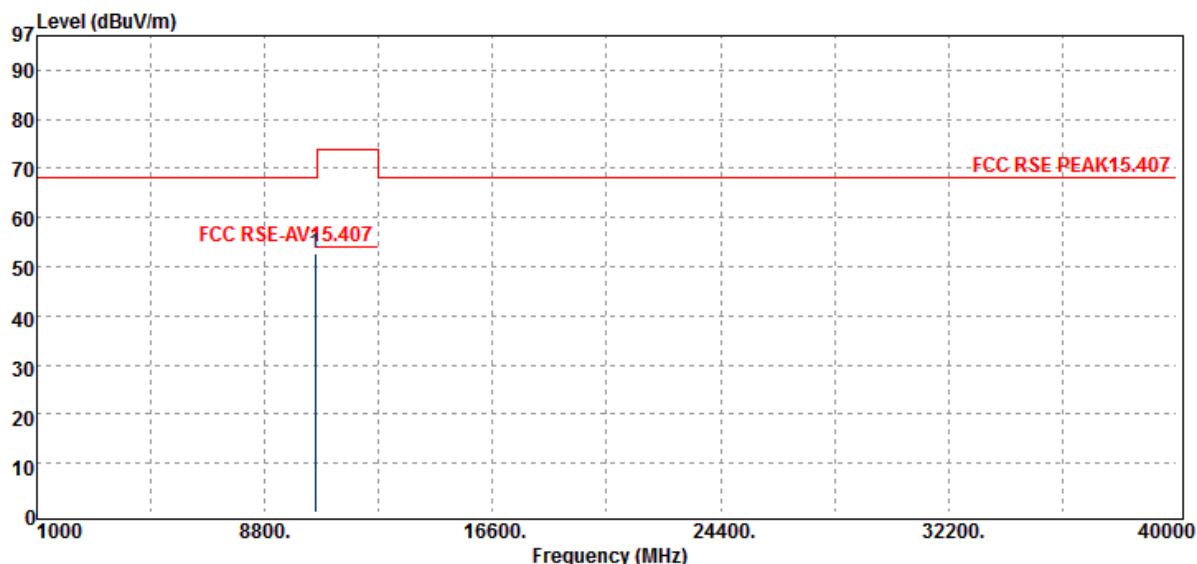
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**Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz**

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5260 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10520.00 | H       | Peak     | 34.24         | 18.35  | 52.59    | 68.30    | -15.71 |

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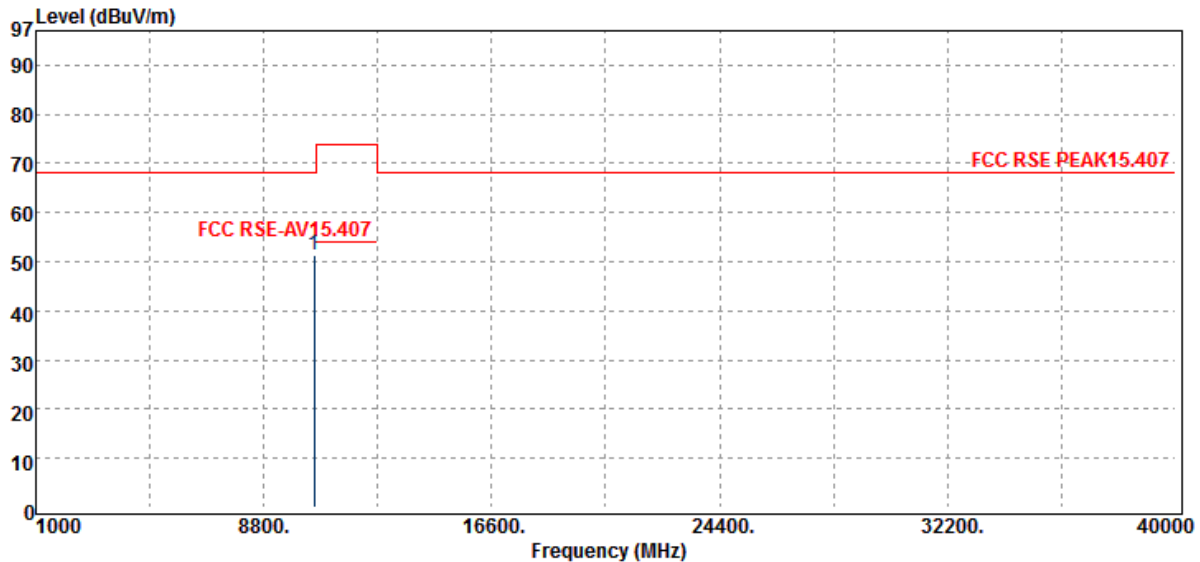
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5260 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10520.00 | H       | Peak     | 33.03         | 18.35  | 51.38    | 68.30    | -16.92 |

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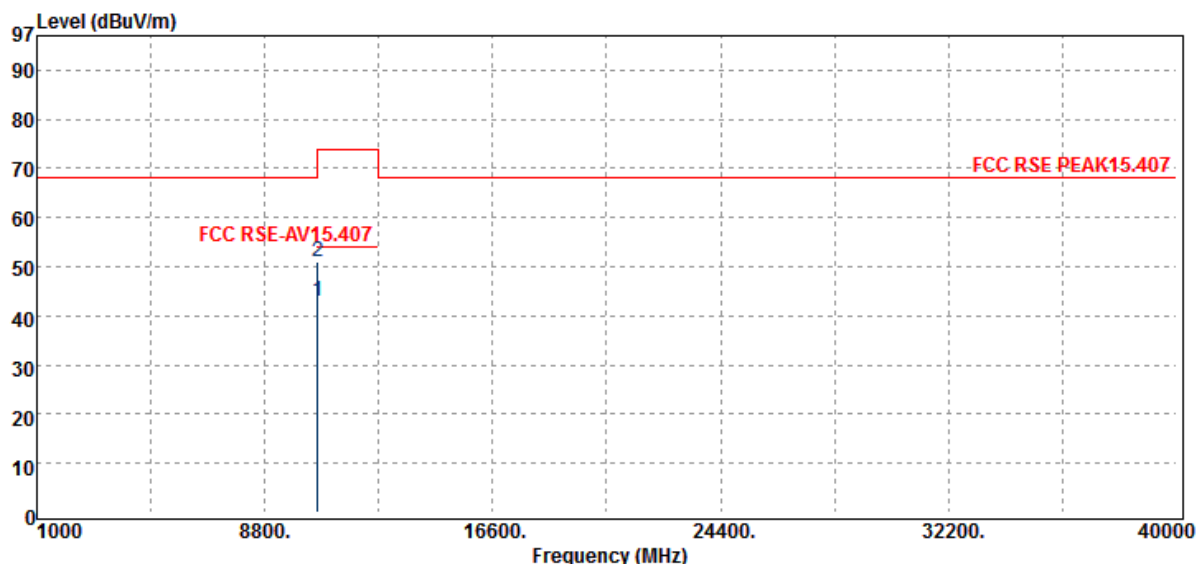
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5300 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10600.00 | H       | Average  | 24.31         | 18.69  | 43.00    | 54.00    | -11.00 |
| 10600.00 | H       | Peak     | 32.36         | 18.69  | 51.05    | 74.00    | -22.95 |

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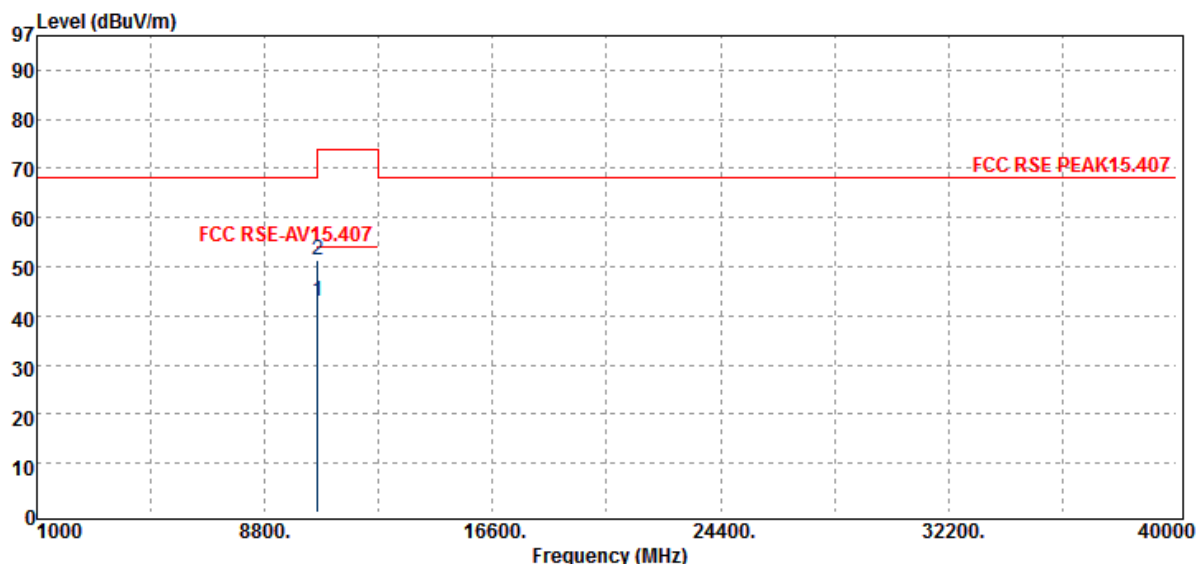
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5300 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10600.00 | H       | Average  | 24.19         | 18.69  | 42.88    | 54.00    | -11.12 |
| 10600.00 | H       | Peak     | 32.69         | 18.69  | 51.38    | 74.00    | -22.62 |

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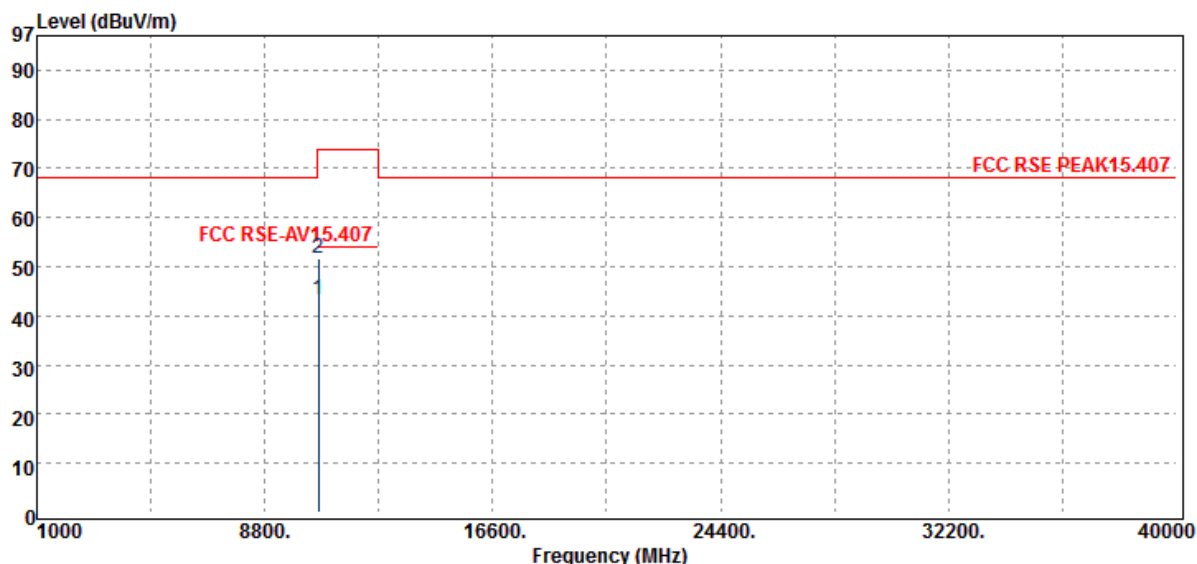
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5320 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 10640.00 | H       | Average  | 24.42         | 19.02  | 43.44          | 54.00          | -10.56 |
| 10640.00 | H       | Peak     | 32.58         | 19.02  | 51.60          | 74.00          | -22.40 |

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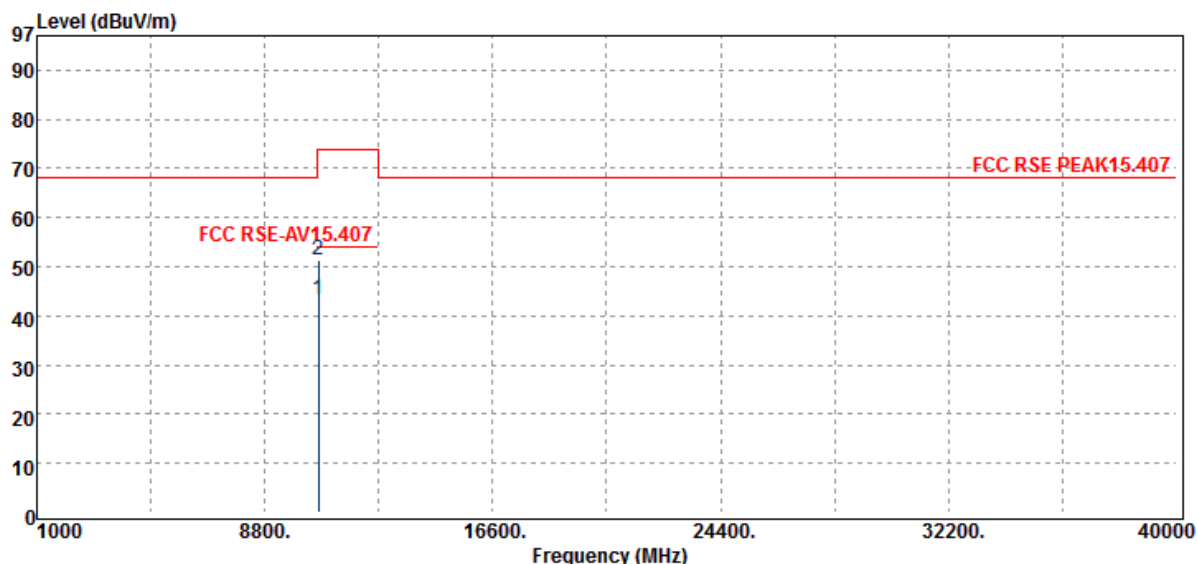
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5320 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 10640.00 | H       | Average  | 24.39         | 19.02  | 43.41          | 54.00          | -10.59 |
| 10640.00 | H       | Peak     | 32.49         | 19.02  | 51.51          | 74.00          | -22.49 |

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**Band edge falling to restricted band**

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2015-06-23       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5350.00 | E       | Average          | 43.10                     | 10.38  | 53.48        | 54.00        | -0.52  |
| 5350.00 | E       | Peak             | 61.95                     | 10.38  | 72.33        | 74.00        | -1.67  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2015-06-23       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5350.00 | E       | Average          | 43.18                     | 10.38  | 53.56        | 54.00        | -0.44  |
| 5350.00 | E       | Peak             | 62.59                     | 10.38  | 72.97        | 74.00        | -1.03  |

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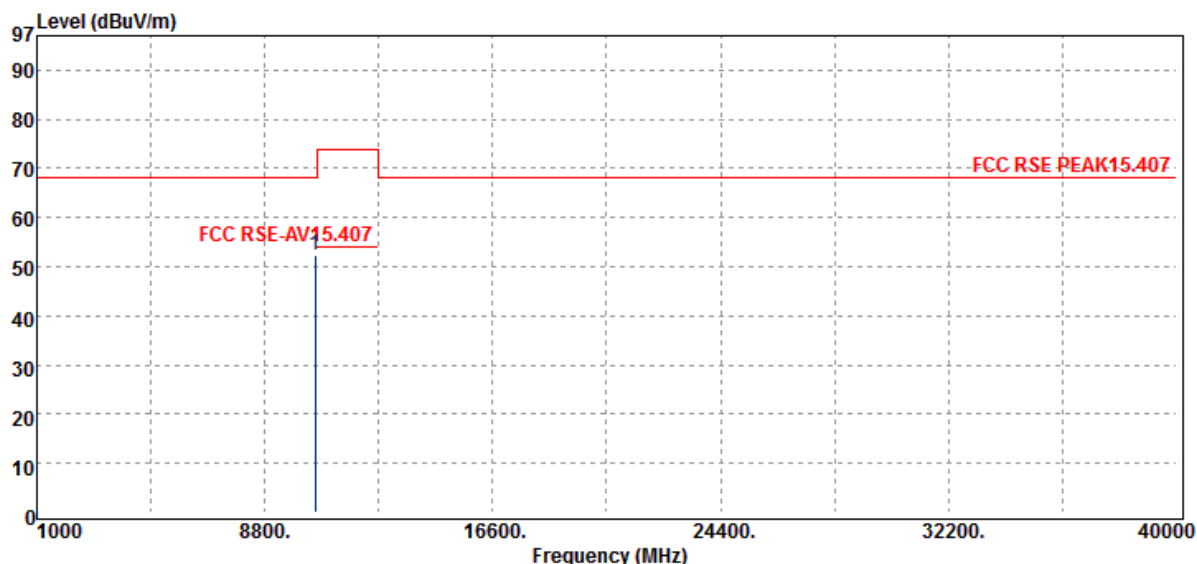
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz (MIMO)**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5260 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10520.00 | H       | Peak     | 34.12         | 18.35  | 52.47    | 68.30    | -15.83 |

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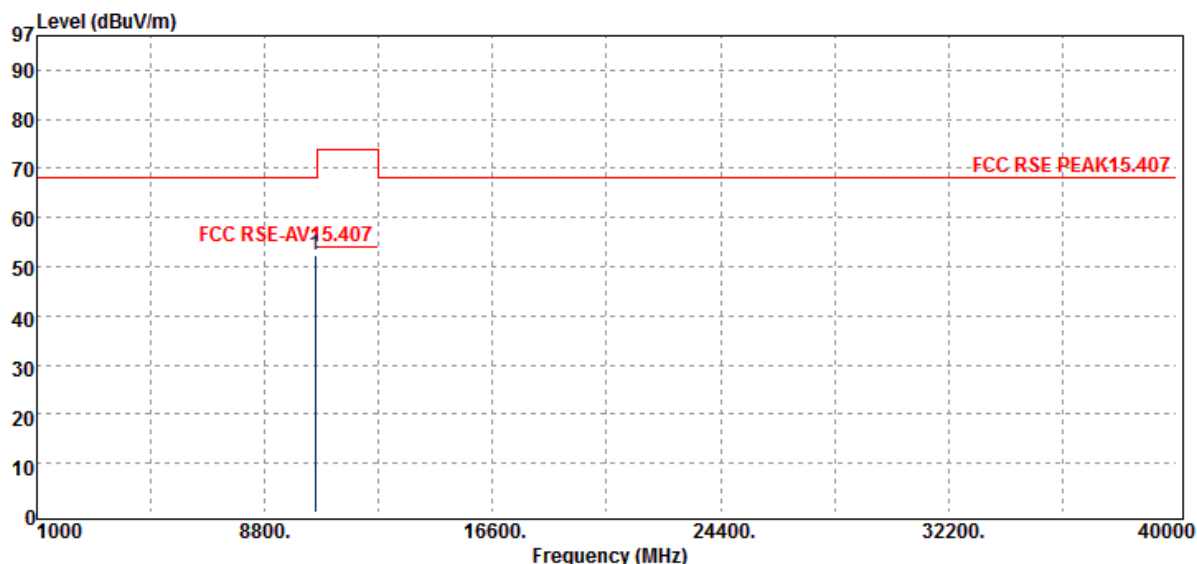
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5260 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10520.00 | H       | Peak     | 34.09         | 18.35  | 52.44    | 68.30    | -15.86 |

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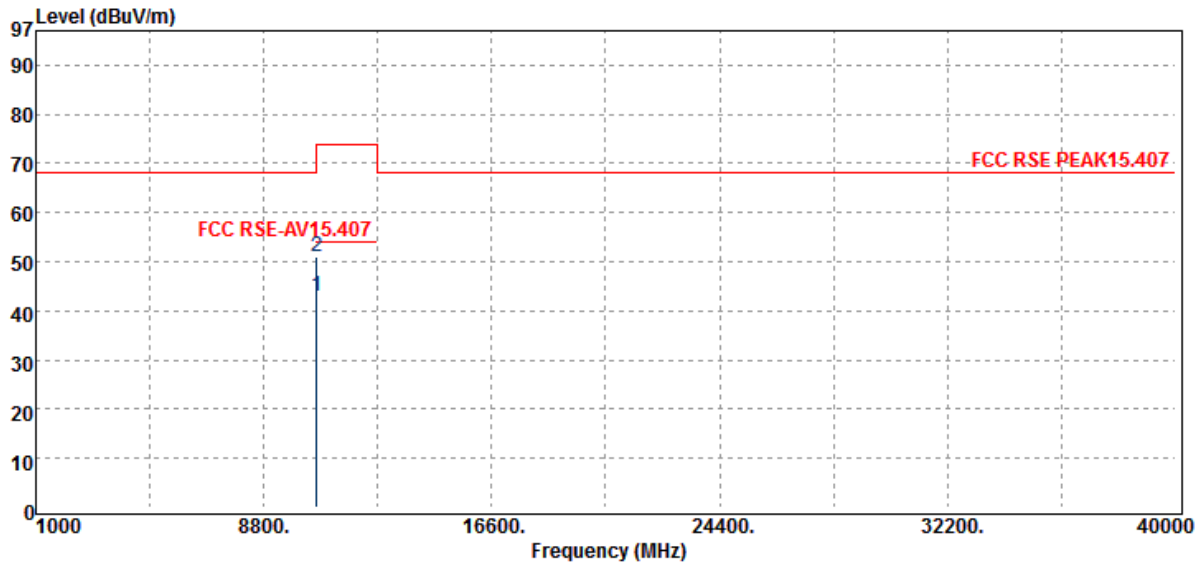
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Operation Band :802.11 n20M  
Fundamental Frequency :5300 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :VERTICAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 10600.00 | H       | Average  | 24.41         | 18.69  | 43.10          | 54.00          | -10.90 |
| 10600.00 | H       | Peak     | 32.20         | 18.69  | 50.89          | 74.00          | -23.11 |

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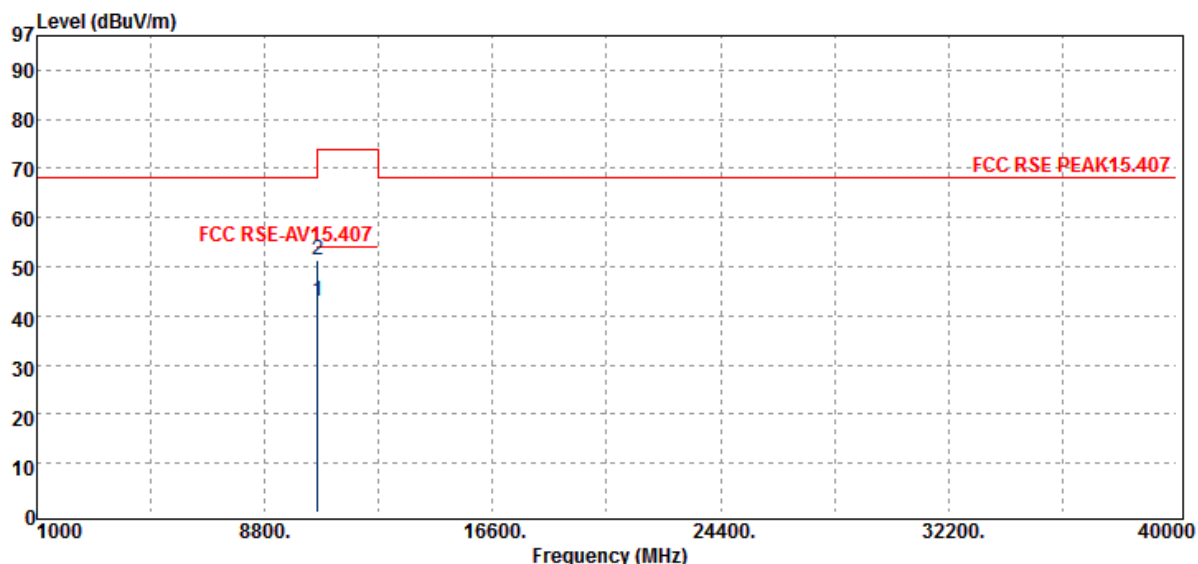
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Operation Band :802.11 n20M  
Fundamental Frequency :5300 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23 deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10600.00 | H       | Average  | 24.36         | 18.69  | 43.05    | 54.00    | -10.95 |
| 10600.00 | H       | Peak     | 32.68         | 18.69  | 51.37    | 74.00    | -22.63 |

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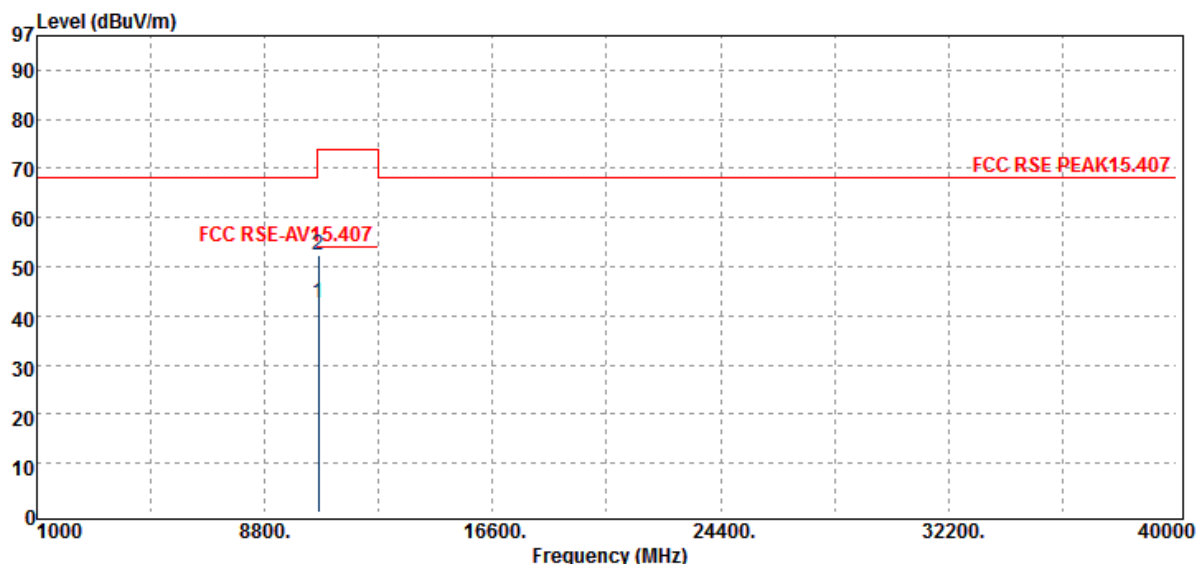
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5320 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10640.00 | H       | Average  | 23.46         | 19.02  | 42.48    | 54.00    | -11.52 |
| 10640.00 | H       | Peak     | 33.38         | 19.02  | 52.40    | 74.00    | -21.60 |

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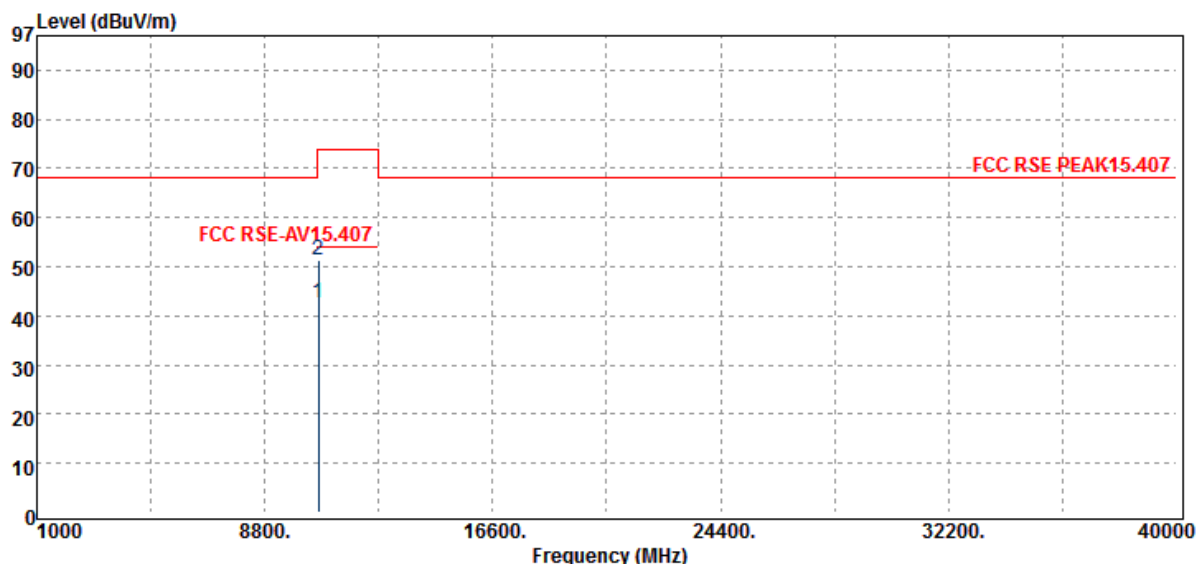
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5320 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10640.00 | H       | Average  | 23.55         | 19.02  | 42.57    | 54.00    | -11.43 |
| 10640.00 | H       | Peak     | 32.23         | 19.02  | 51.25    | 74.00    | -22.75 |

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**Band edge falling to restricted band**

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5350.00 | E       | Average          | 40.99                     | 10.97  | 51.96        | 54.00        | -2.04  |
| 5350.00 | E       | Peak             | 56.81                     | 10.97  | 67.78        | 74.00        | -6.22  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5320 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5350.00 | E       | Average          | 41.20                     | 10.97  | 52.17        | 54.00        | -1.83  |
| 5350.00 | E       | Peak             | 58.47                     | 10.97  | 69.44        | 74.00        | -4.56  |

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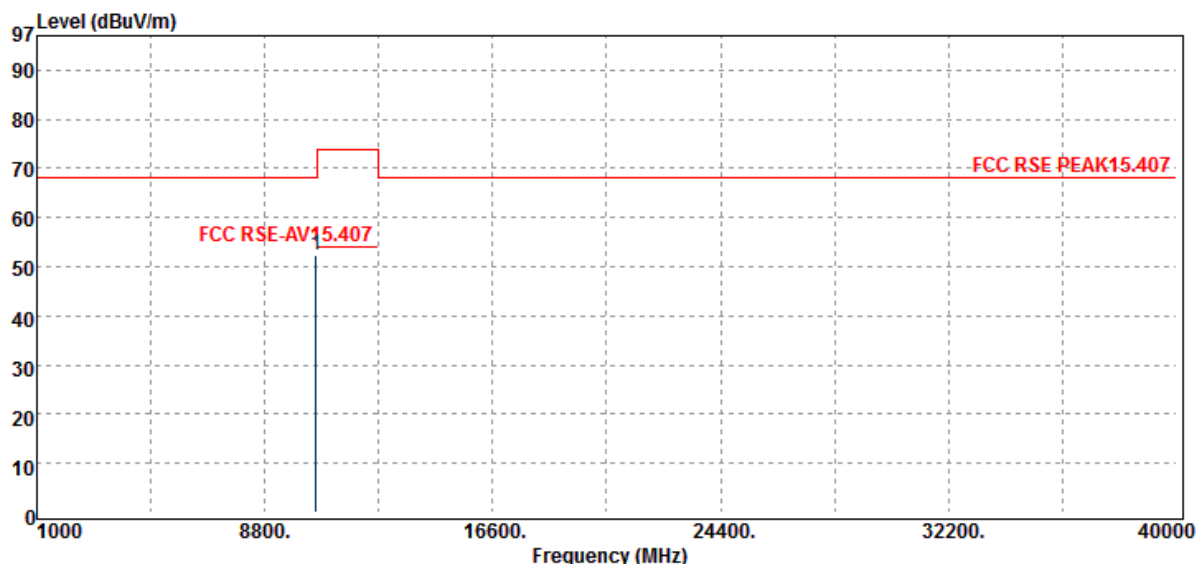
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz (MIMO)**

|                       |              |                          |                  |
|-----------------------|--------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25      |
| Fundamental Frequency | :5270 MHz    | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL        |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10540.00 | H       | Peak     | 34.06         | 18.45  | 52.51    | 68.30    | -15.79 |

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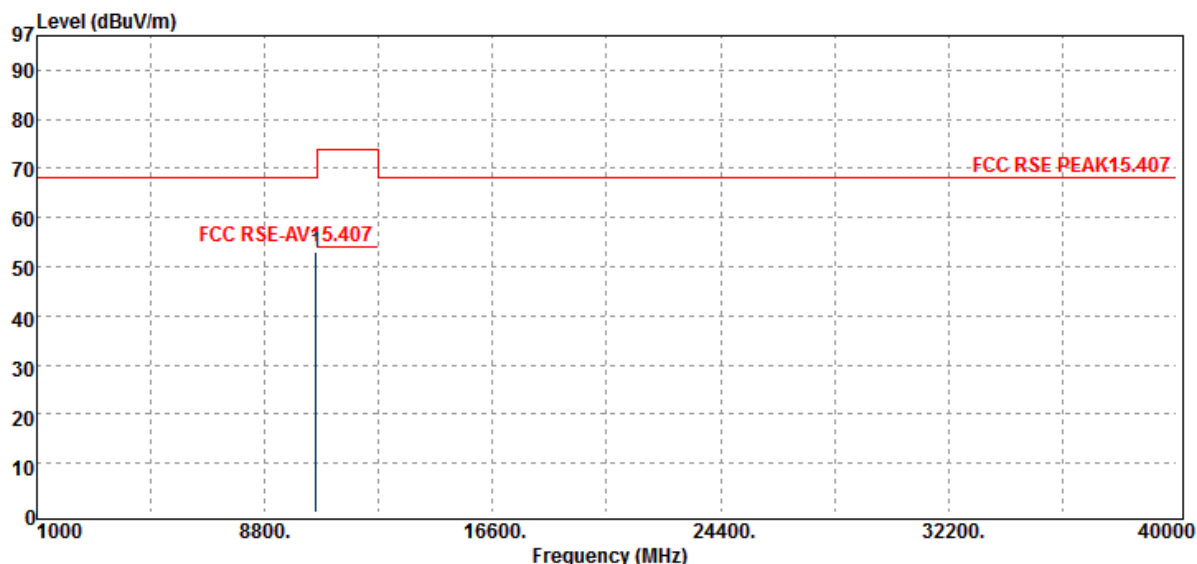
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|                       |              |                          |                  |
|-----------------------|--------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25      |
| Fundamental Frequency | :5270 MHz    | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL      |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10540.00 | H       | Peak     | 34.61         | 18.45  | 53.06    | 68.30    | -15.24 |

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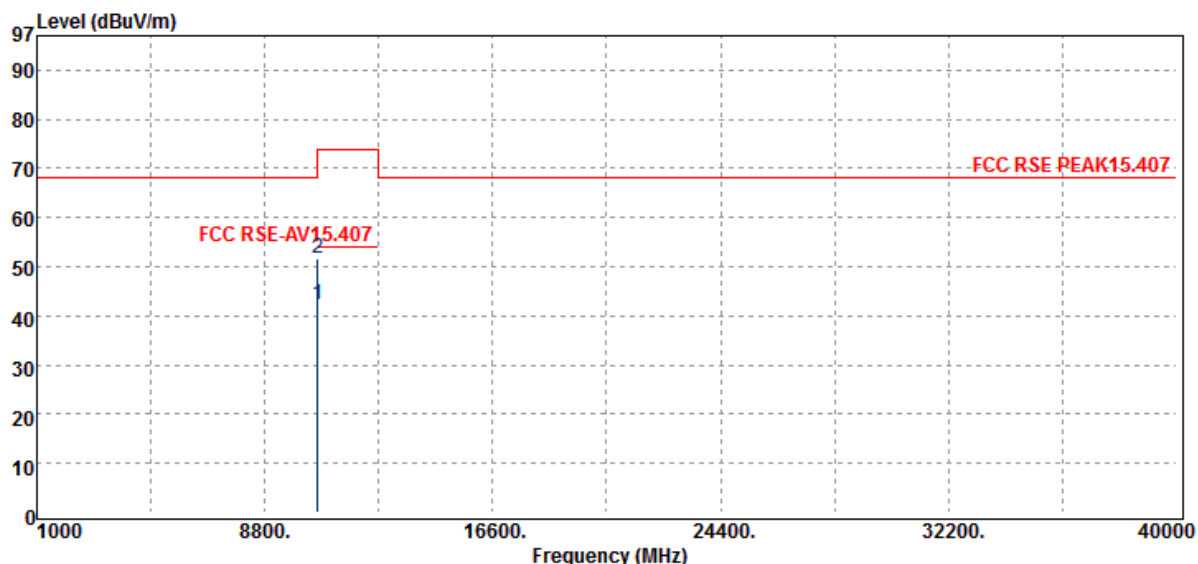
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Operation Band :802.11 n40M  
Fundamental Frequency :5310 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :VERTICAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 10620.00 | H       | Average  | 23.60         | 18.86  | 42.46    | 54.00    | -11.54 |
| 10620.00 | H       | Peak     | 32.77         | 18.86  | 51.63    | 74.00    | -22.37 |

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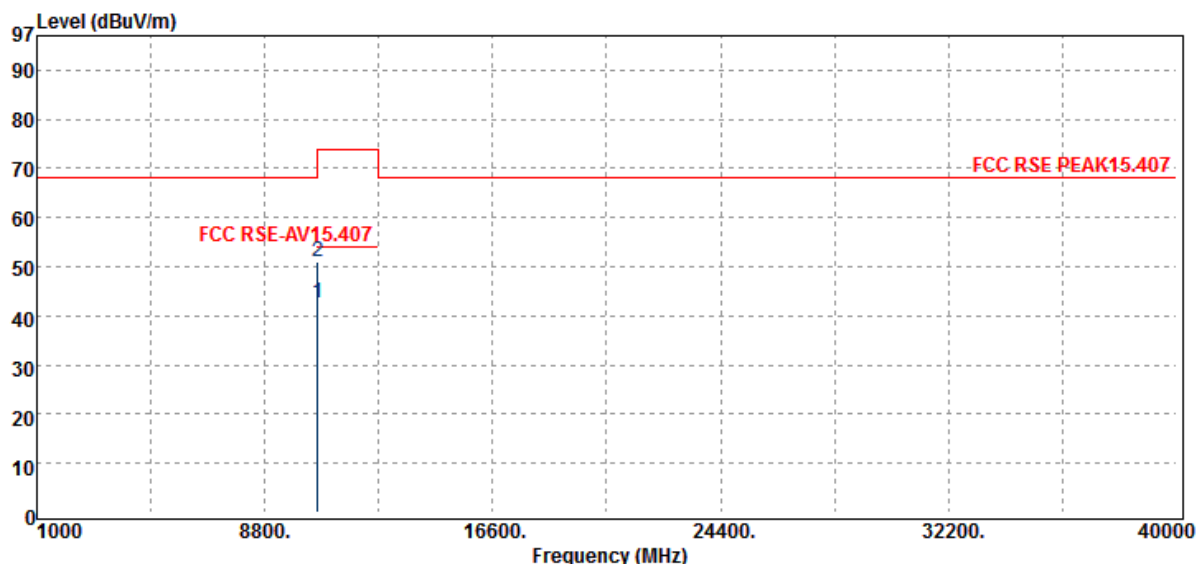
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|                       |              |                          |                  |
|-----------------------|--------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25      |
| Fundamental Frequency | :5310 MHz    | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL      |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 10620.00 | H       | Average  | 23.84         | 18.86  | 42.70          | 54.00          | -11.30 |
| 10620.00 | H       | Peak     | 32.11         | 18.86  | 50.97          | 74.00          | -23.03 |

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### Band edge falling to restricted band

|                       |                 |                          |                  |
|-----------------------|-----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5310 MHz       | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL        |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5350.00 | E       | Average          | 42.43                     | 10.97  | 53.40        | 54.00        | -0.60  |
| 5350.00 | E       | Peak             | 59.83                     | 10.97  | 70.80        | 74.00        | -3.20  |

|                       |                 |                          |                  |
|-----------------------|-----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5310 MHz       | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL      |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5350.00 | E       | Average          | 42.07                     | 10.97  | 53.04        | 54.00        | -0.96  |
| 5350.00 | E       | Peak             | 59.97                     | 10.97  | 70.94        | 74.00        | -3.06  |

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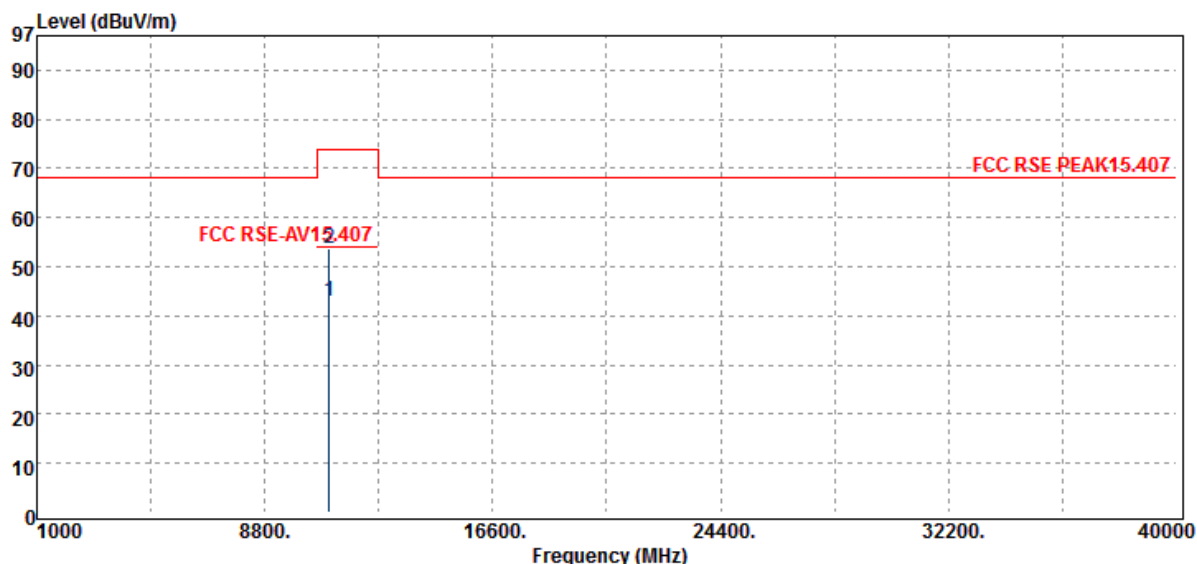
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**Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz**

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5500 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11000.00 | H       | Average  | 23.16         | 19.82  | 42.98    | 54.00    | -11.02 |
| 11000.00 | H       | Peak     | 33.87         | 19.82  | 53.69    | 74.00    | -20.31 |

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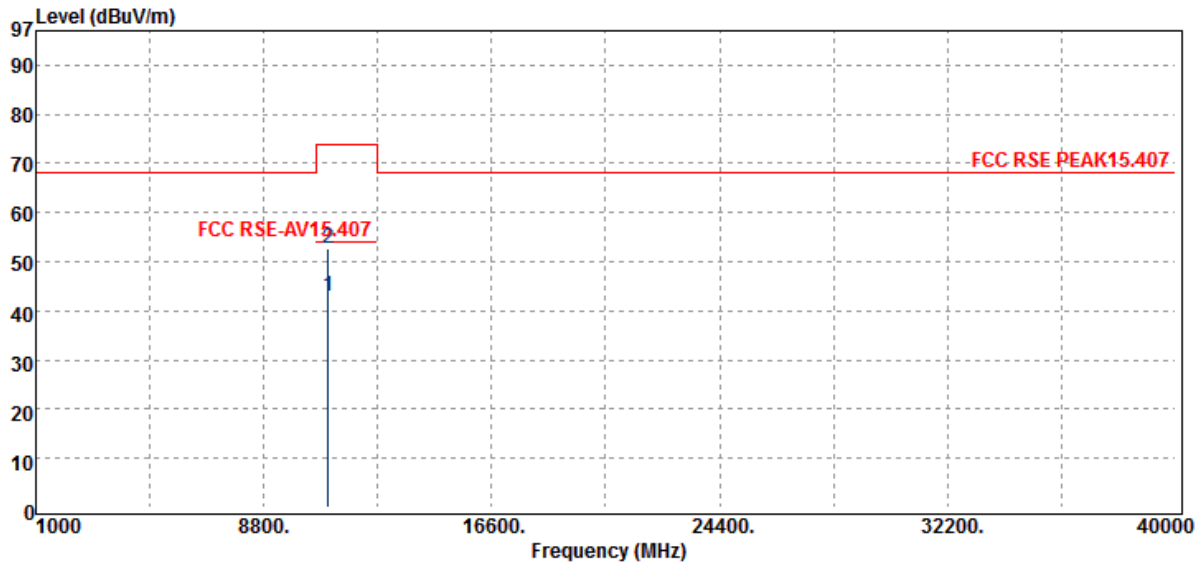
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5500 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 11000.00 | H       | Average  | 23.24         | 19.82  | 43.06          | 54.00          | -10.94 |
| 11000.00 | H       | Peak     | 32.79         | 19.82  | 52.61          | 74.00          | -21.39 |

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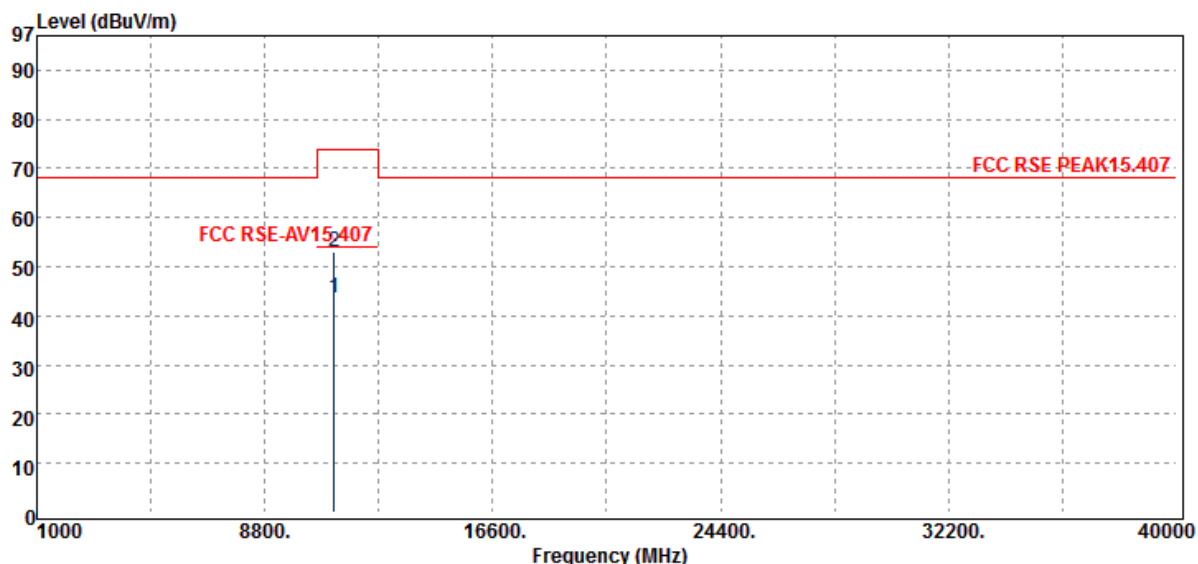
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5580 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11160.00 | H       | Average  | 23.55         | 20.21  | 43.76    | 54.00    | -10.24 |
| 11160.00 | H       | Peak     | 32.96         | 20.21  | 53.17    | 74.00    | -20.83 |

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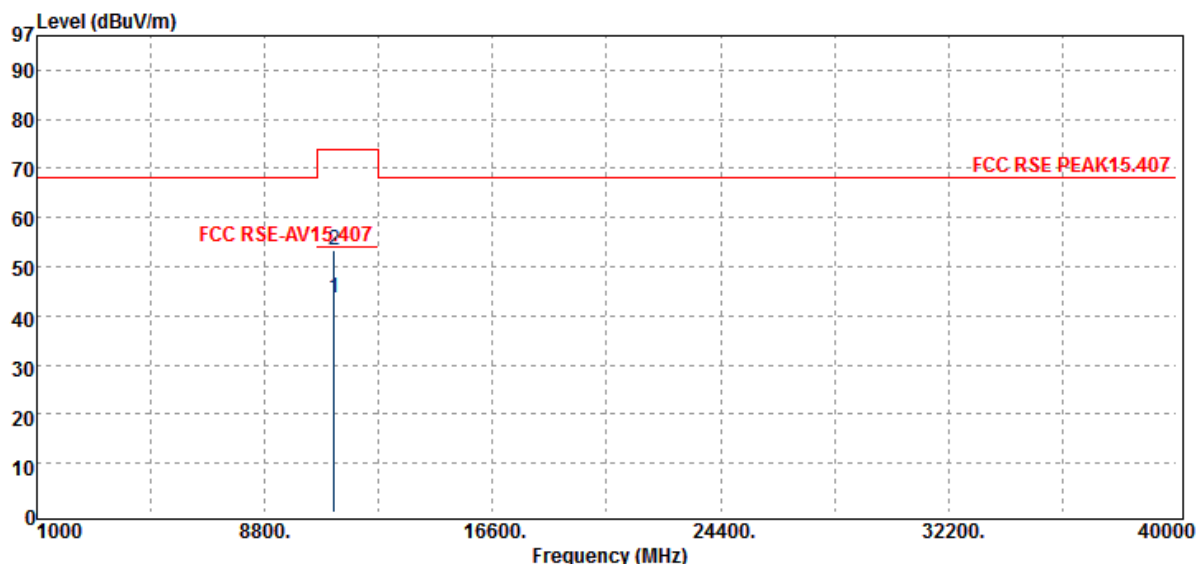
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5580 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11160.00 | H       | Average  | 23.47         | 20.21  | 43.68    | 54.00    | -10.32 |
| 11160.00 | H       | Peak     | 33.17         | 20.21  | 53.38    | 74.00    | -20.62 |

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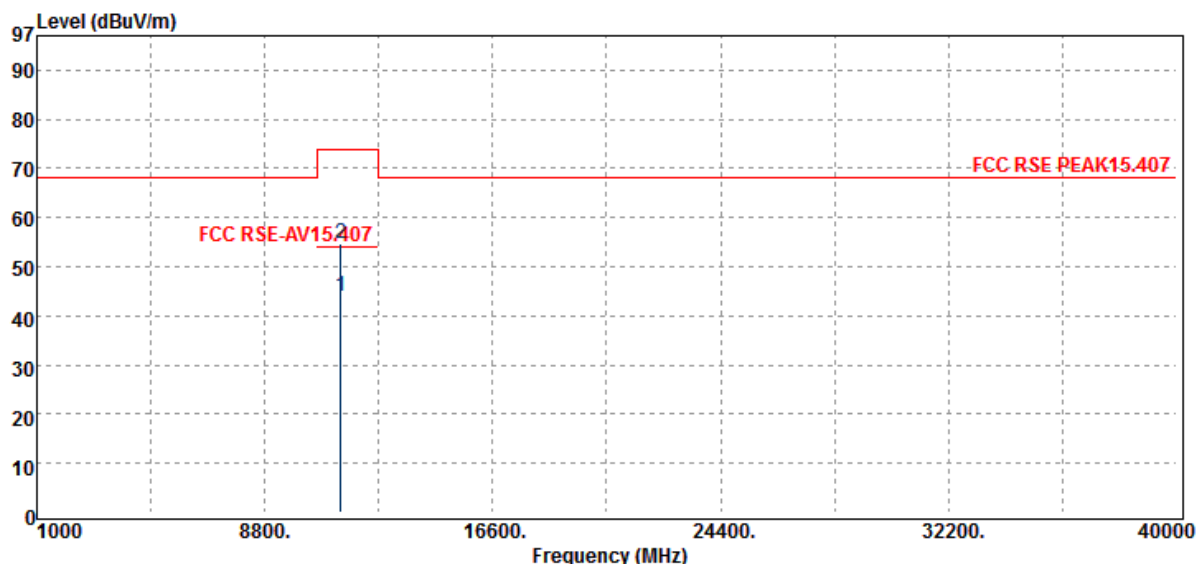
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5700 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11400.00 | H       | Average  | 23.48         | 20.65  | 44.13    | 54.00    | -9.87  |
| 11400.00 | H       | Peak     | 34.10         | 20.65  | 54.75    | 74.00    | -19.25 |

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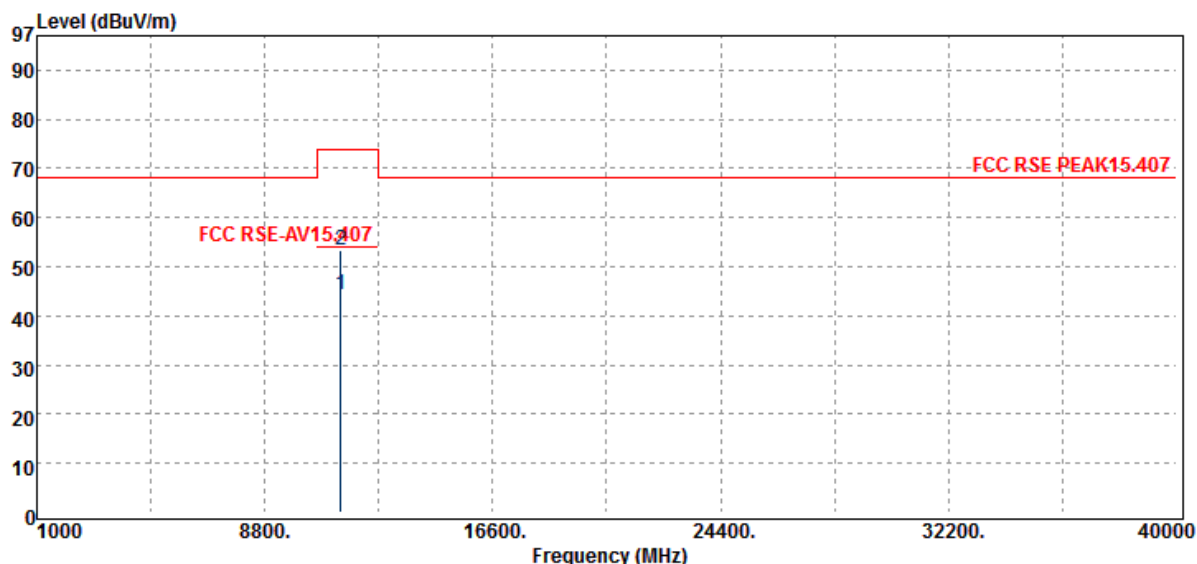
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5700 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11400.00 | H       | Average  | 23.57         | 20.65  | 44.22    | 54.00    | -9.78  |
| 11400.00 | H       | Peak     | 32.69         | 20.65  | 53.34    | 74.00    | -20.66 |

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### Band edge falling to restricted band

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5460.00 | E       | Average          | 37.88                     | 10.89  | 48.77        | 54.00        | -5.23  |
| 5460.00 | E       | Peak             | 52.59                     | 10.89  | 63.48        | 74.00        | -10.52 |
| 5470.00 | E       | Peak             | 54.27                     | 10.91  | 65.18        | 68.30        | -3.12  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5460.00 | E       | Average          | 37.88                     | 10.89  | 48.77        | 54.00        | -5.23  |
| 5460.00 | E       | Peak             | 52.92                     | 10.89  | 63.81        | 74.00        | -10.19 |
| 5470.00 | E       | Peak             | 55.42                     | 10.91  | 66.33        | 68.30        | -1.97  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 55.85                     | 11.04  | 66.89        | 68.30        | -1.41  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 56.10                     | 11.04  | 67.14        | 68.30        | -1.16  |

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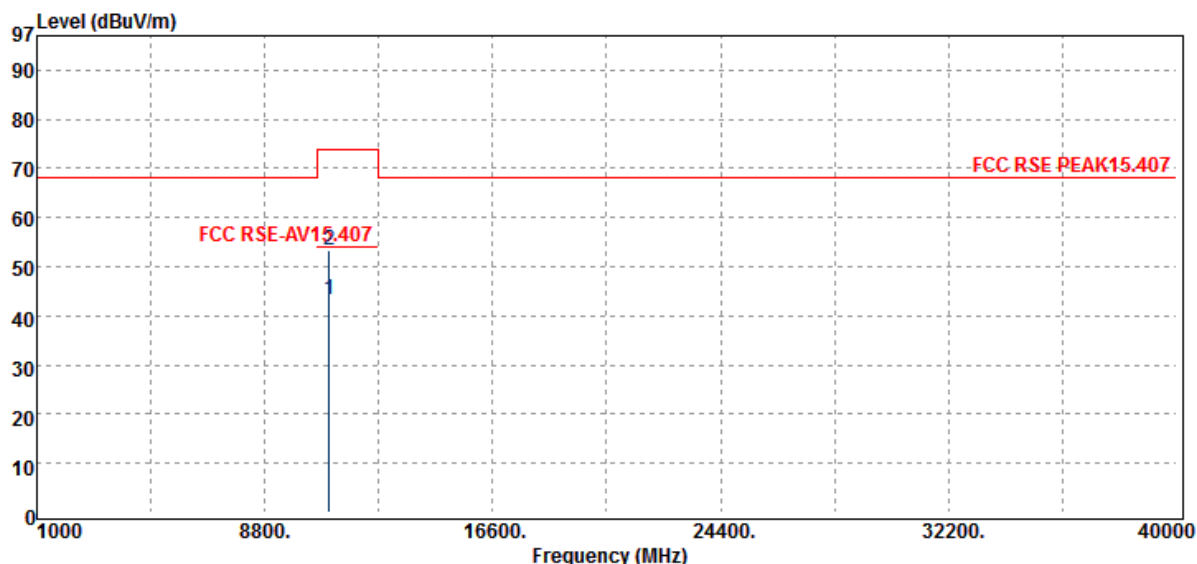
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz (MIMO)

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5500 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11000.00 | H       | Average  | 23.61         | 19.82  | 43.43    | 54.00    | -10.57 |
| 11000.00 | H       | Peak     | 33.69         | 19.82  | 53.51    | 74.00    | -20.49 |

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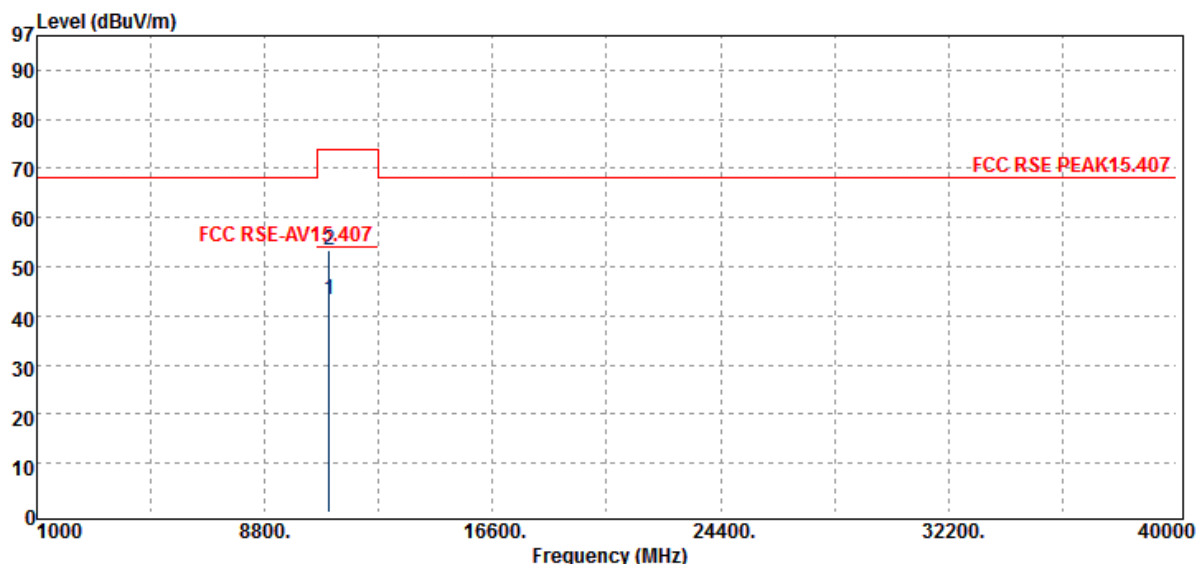
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5500 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11000.00 | H       | Average  | 23.51         | 19.82  | 43.33    | 54.00    | -10.67 |
| 11000.00 | H       | Peak     | 33.65         | 19.82  | 53.47    | 74.00    | -20.53 |

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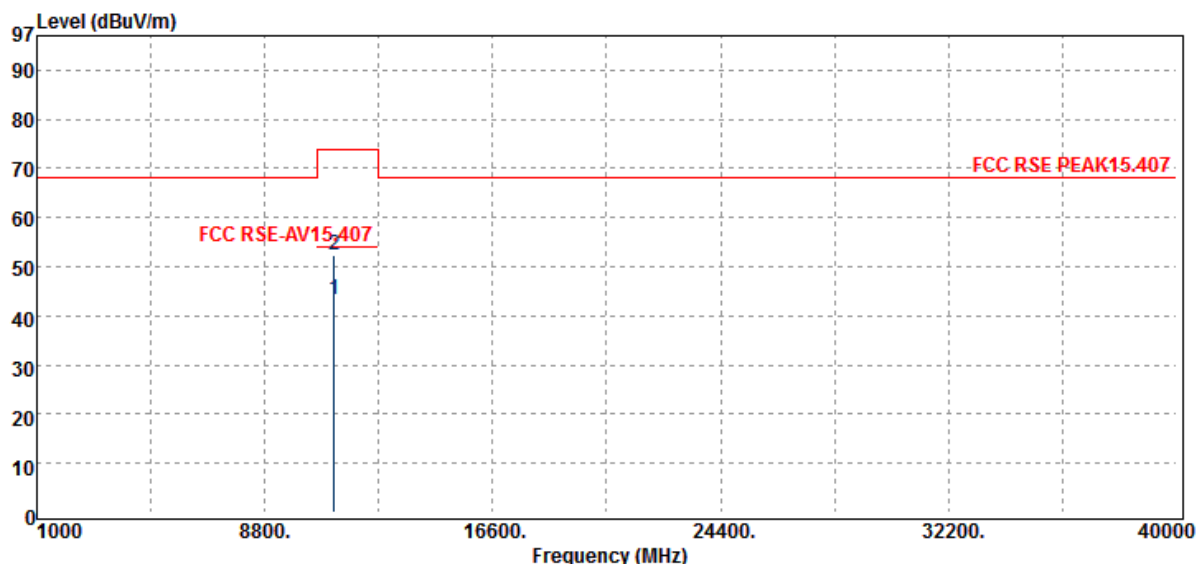
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5580 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 11160.00 | H       | Average  | 23.17         | 20.21  | 43.38          | 54.00          | -10.62 |
| 11160.00 | H       | Peak     | 32.21         | 20.21  | 52.42          | 74.00          | -21.58 |

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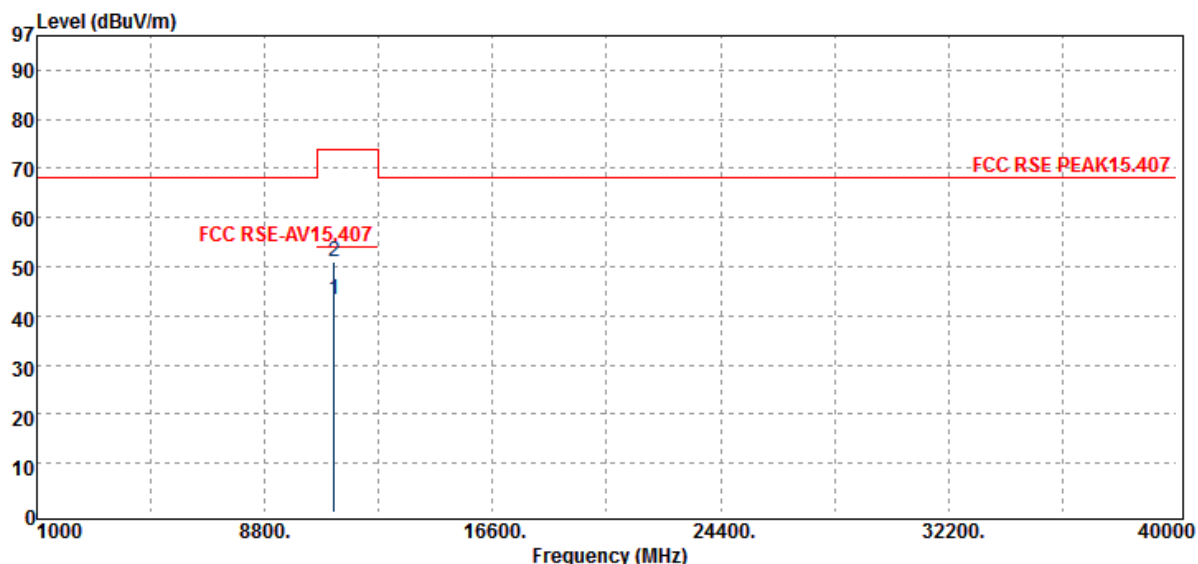
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5580 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11160.00 | H       | Average  | 23.24         | 20.21  | 43.45    | 54.00    | -10.55 |
| 11160.00 | H       | Peak     | 30.87         | 20.21  | 51.08    | 74.00    | -22.92 |

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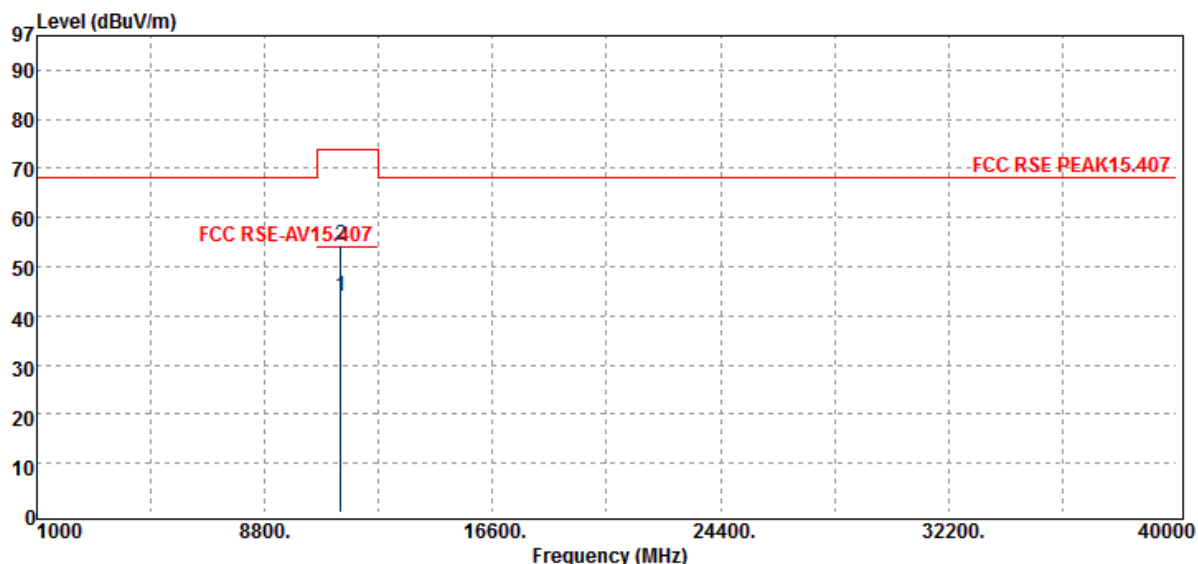
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5700 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11400.00 | H       | Average  | 23.48         | 20.65  | 44.13    | 54.00    | -9.87  |
| 11400.00 | H       | Peak     | 33.63         | 20.65  | 54.28    | 74.00    | -19.72 |

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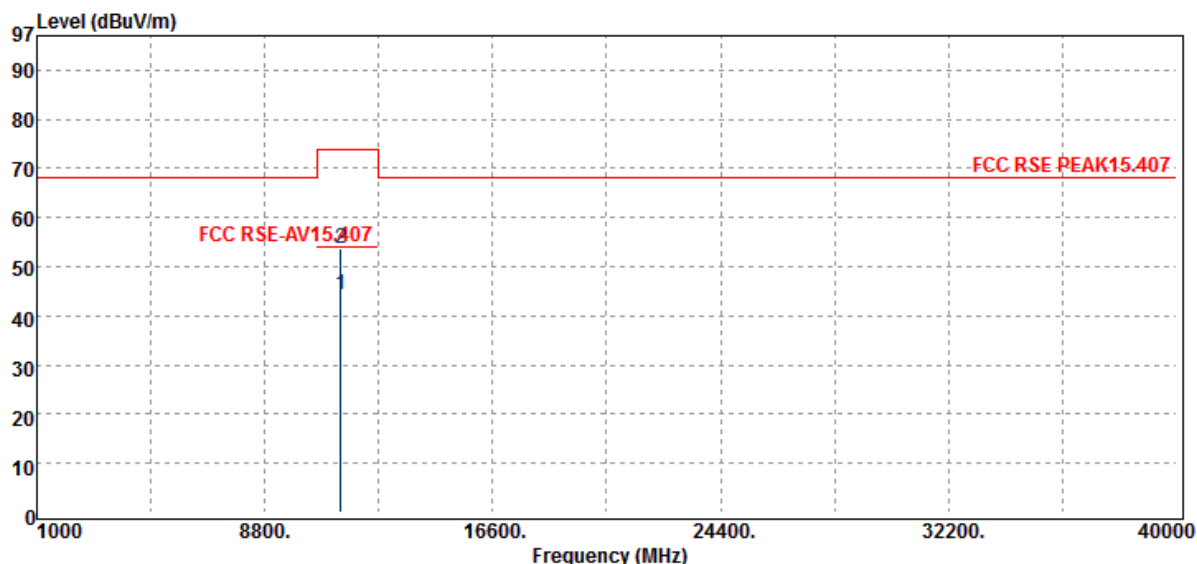
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5700 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11400.00 | H       | Average  | 23.52         | 20.65  | 44.17    | 54.00    | -9.83  |
| 11400.00 | H       | Peak     | 33.20         | 20.65  | 53.85    | 74.00    | -20.15 |

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**Band edge falling to restricted band**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5460.00 | E       | Average          | 39.61                     | 10.89  | 50.50        | 54.00        | -3.50  |
| 5460.00 | E       | Peak             | 52.03                     | 10.89  | 62.92        | 74.00        | -11.08 |
| 5470.00 | E       | Peak             | 51.85                     | 10.91  | 62.76        | 68.30        | -5.54  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5500 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5460.00 | E       | Average          | 39.84                     | 10.89  | 50.73        | 54.00        | -3.27  |
| 5460.00 | E       | Peak             | 53.59                     | 10.89  | 64.48        | 74.00        | -9.52  |
| 5470.00 | E       | Peak             | 54.53                     | 10.91  | 65.44        | 68.30        | -2.86  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 55.06                     | 11.04  | 66.10        | 68.30        | -2.20  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5700 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 55.50                     | 11.04  | 66.54        | 68.30        | -1.76  |

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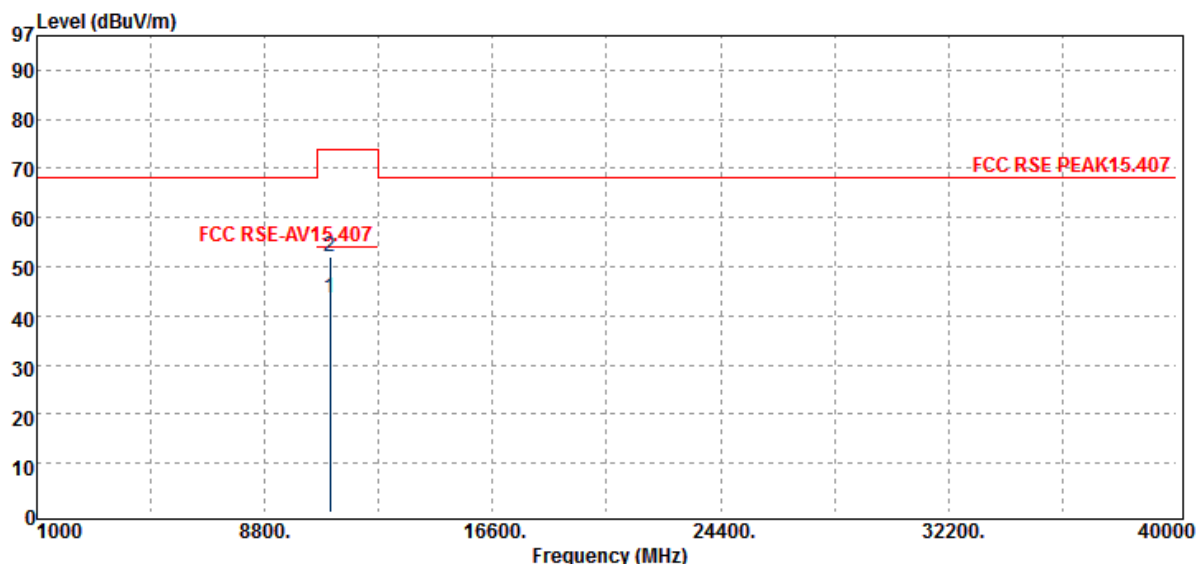
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz (MIMO)**

|                       |              |                          |                  |
|-----------------------|--------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25      |
| Fundamental Frequency | :5510 MHz    | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL        |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 11020.00 | H       | Average  | 23.67         | 19.81  | 43.48          | 54.00          | -10.52 |
| 11020.00 | H       | Peak     | 32.34         | 19.81  | 52.15          | 74.00          | -21.85 |

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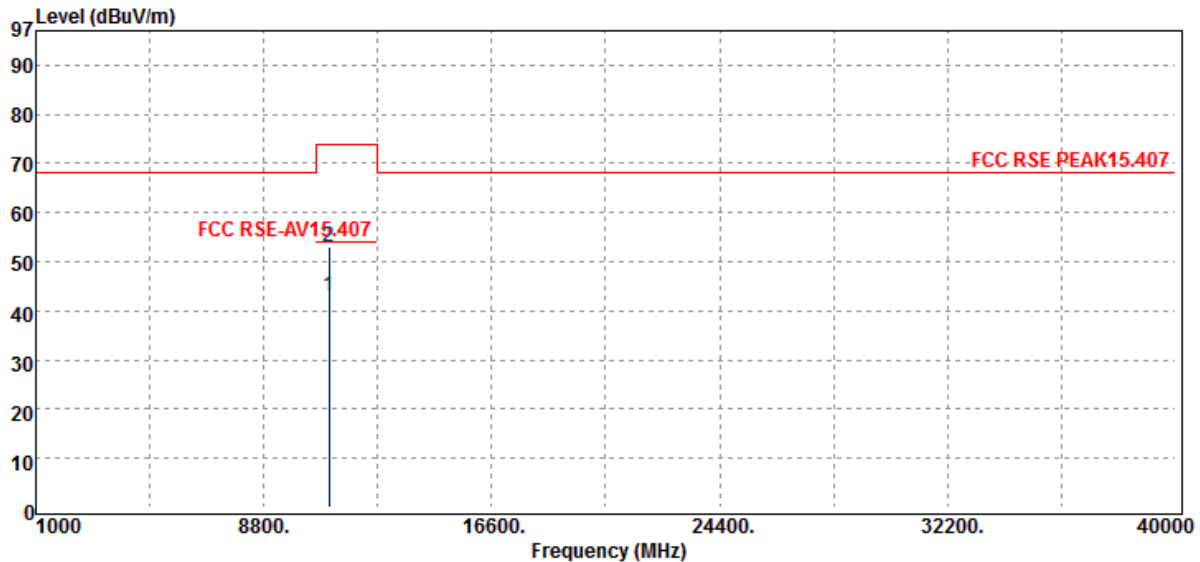
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Operation Band :802.11 n40M  
Fundamental Frequency :5510 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11020.00 | H       | Average  | 23.13         | 19.81  | 42.94    | 54.00    | -11.06 |
| 11020.00 | H       | Peak     | 33.27         | 19.81  | 53.08    | 74.00    | -20.92 |

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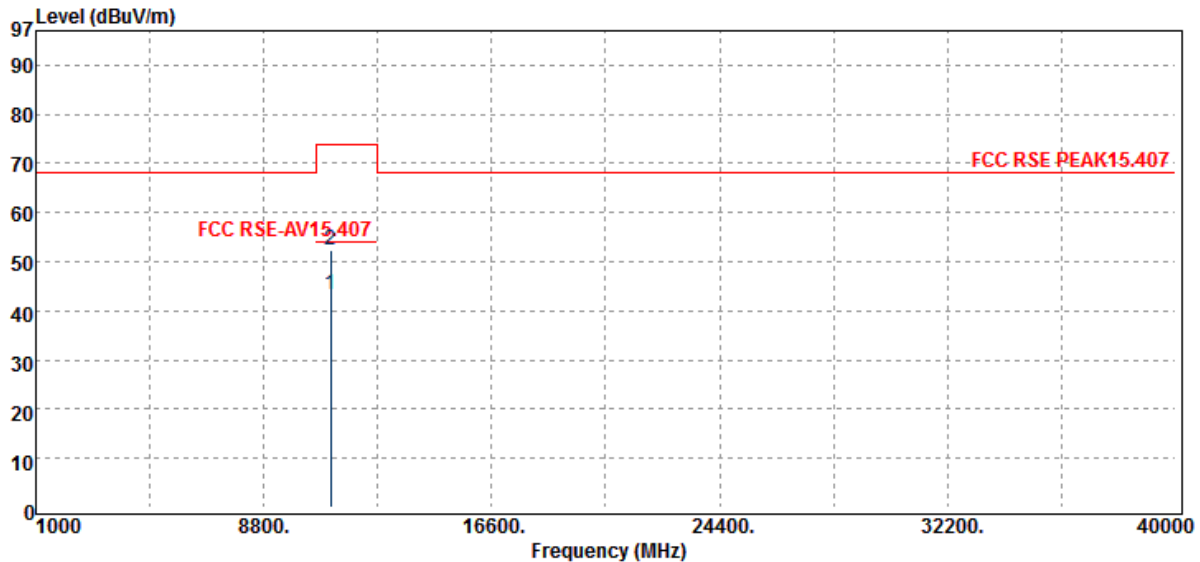
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Operation Band :802.11 n40M  
Fundamental Frequency :5550 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :VERTICAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11100.00 | H       | Average  | 23.23         | 20.23  | 43.46    | 54.00    | -10.54 |
| 11100.00 | H       | Peak     | 32.03         | 20.23  | 52.26    | 74.00    | -21.74 |

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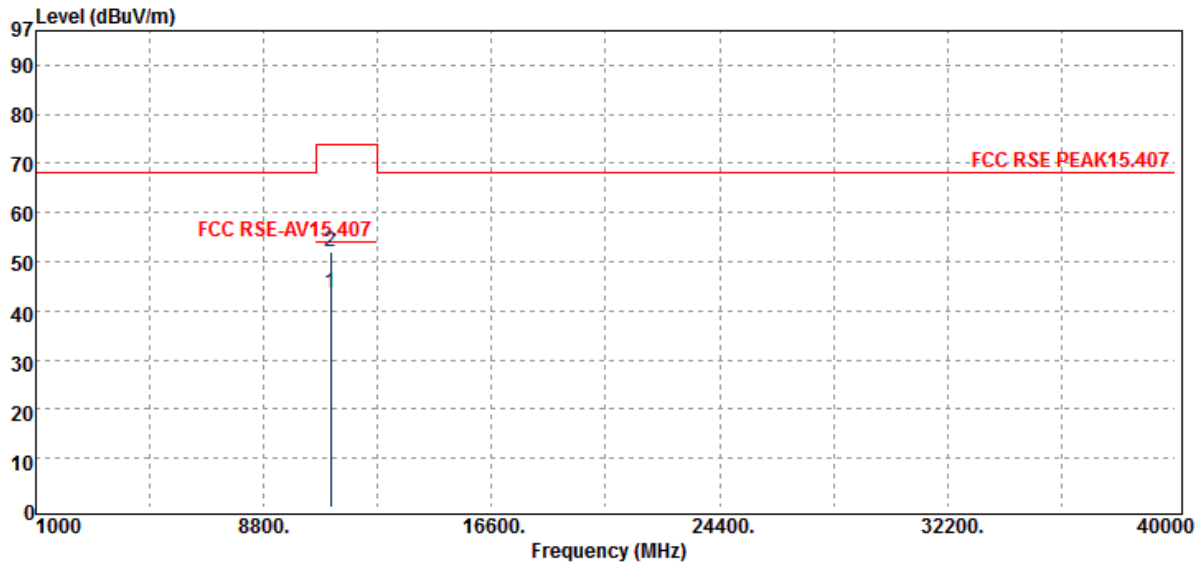
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Operation Band :802.11 n40M  
Fundamental Frequency :5550 MHz  
Operation Mode :TX MID  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11100.00 | H       | Average  | 23.42         | 20.23  | 43.65    | 54.00    | -10.35 |
| 11100.00 | H       | Peak     | 31.77         | 20.23  | 52.00    | 74.00    | -22.00 |

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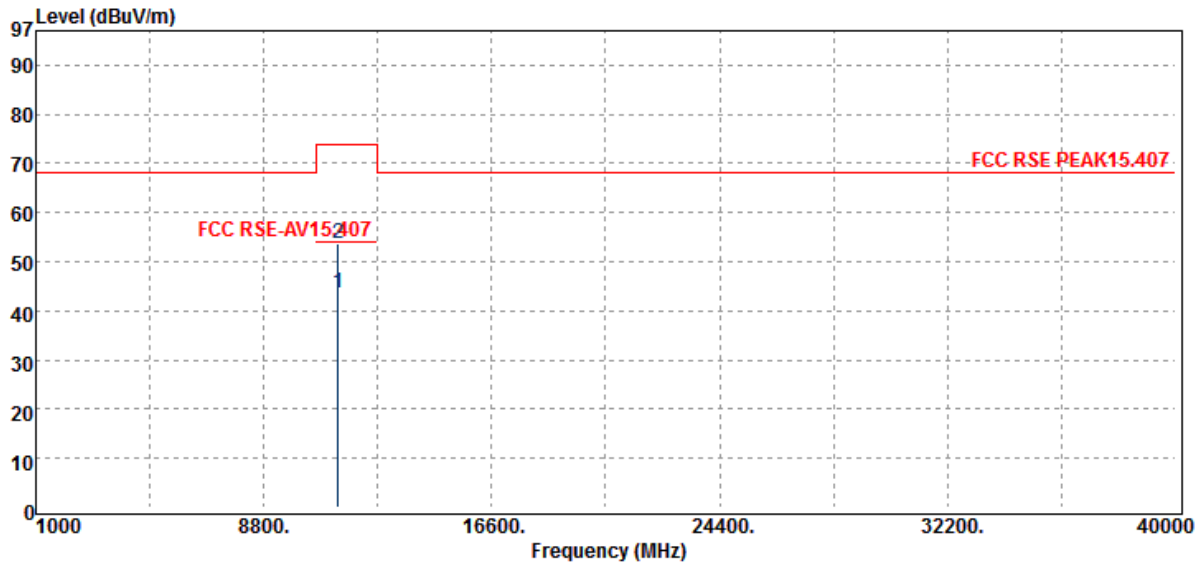
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Operation Band :802.11 n40M  
Fundamental Frequency :5670 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :VERTICAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11340.00 | H       | Average  | 23.11         | 20.64  | 43.75    | 54.00    | -10.25 |
| 11340.00 | H       | Peak     | 33.07         | 20.64  | 53.71    | 74.00    | -20.29 |

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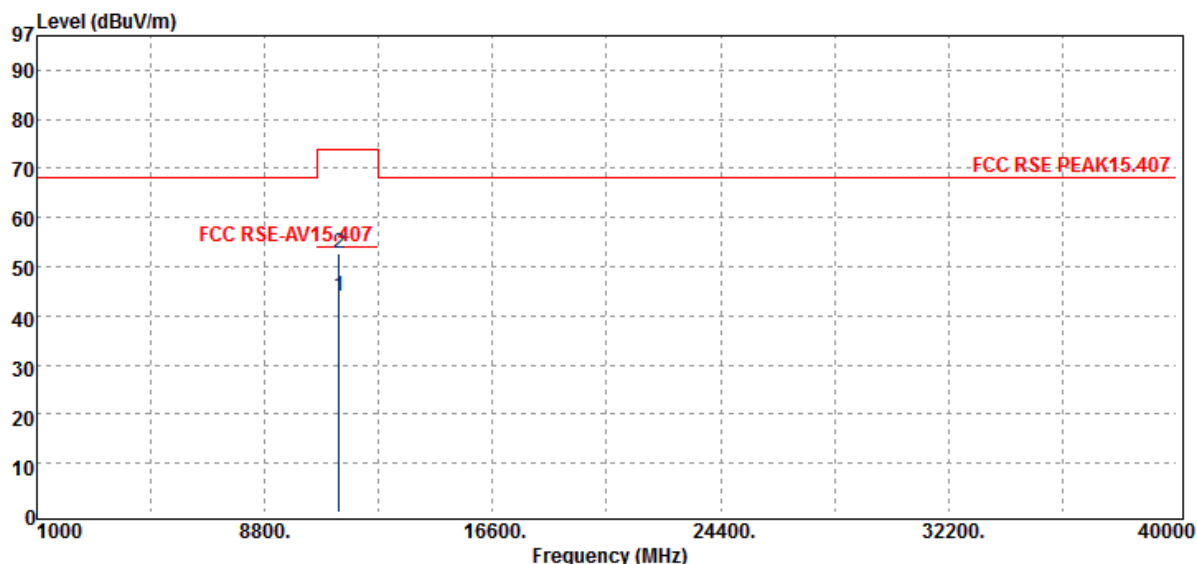
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Operation Band :802.11 n40M  
Fundamental Frequency :5670 MHz  
Operation Mode :TX HIGH  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11340.00 | H       | Average  | 23.24         | 20.64  | 43.88    | 54.00    | -10.12 |
| 11340.00 | H       | Peak     | 32.04         | 20.64  | 52.68    | 74.00    | -21.32 |

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### Band edge falling to restricted band

|                       |                |                          |                  |
|-----------------------|----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL        |

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 39.49         | 10.89  | 50.38    | 54.00    | -3.62  |
| 5460.00 | E       | Peak     | 52.54         | 10.89  | 63.43    | 74.00    | -10.57 |
| 5470.00 | E       | Peak     | 55.83         | 10.91  | 66.74    | 68.30    | -1.56  |

|                       |                |                          |                  |
|-----------------------|----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5510 MHz      | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL      |

Actual FS(dBμV / m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV / m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq.   | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|---------|---------|----------|---------------|--------|----------|----------|--------|
|         |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz     | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 5460.00 | E       | Average  | 39.94         | 10.89  | 50.83    | 54.00    | -3.17  |
| 5460.00 | E       | Peak     | 52.35         | 10.89  | 63.24    | 74.00    | -10.76 |
| 5470.00 | E       | Peak     | 55.91         | 10.91  | 66.82    | 68.30    | -1.48  |

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|                       |                 |                          |                  |
|-----------------------|-----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5670 MHz       | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL        |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 53.91                     | 11.04  | 64.95        | 68.30        | -3.35  |

|                       |                 |                          |                  |
|-----------------------|-----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5670 MHz       | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL      |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 53.71                     | 11.04  | 64.75        | 68.30        | -3.55  |

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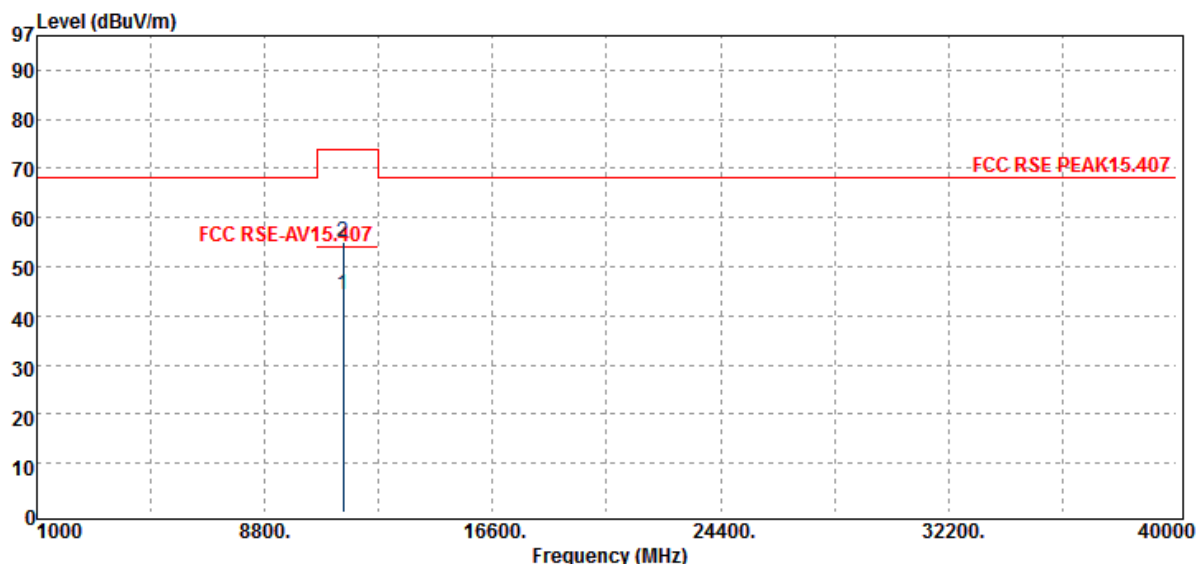
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# Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5745 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS       | @3m      | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV / m | dBμV / m |        |
| 11490.00 | H       | Average  | 23.61         | 20.81  | 44.42    | 54.00    | -9.58  |
| 11490.00 | H       | Peak     | 34.18         | 20.81  | 54.99    | 74.00    | -19.01 |

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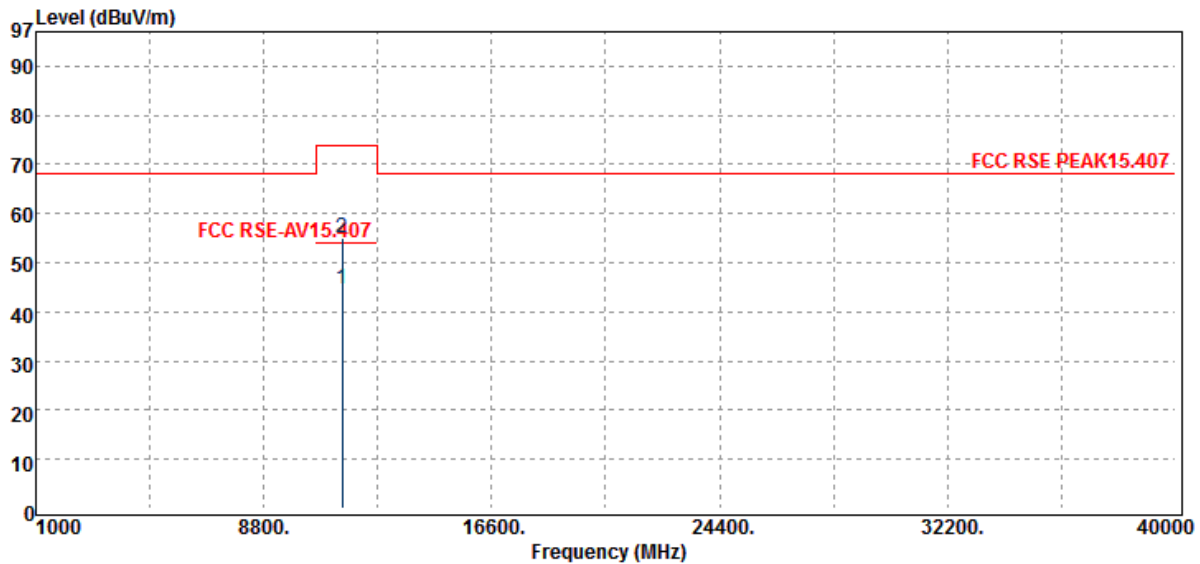
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5745 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11490.00 | H       | Average  | 23.72         | 20.81  | 44.53    | 54.00    | -9.47  |
| 11490.00 | H       | Peak     | 34.30         | 20.81  | 55.11    | 74.00    | -18.89 |

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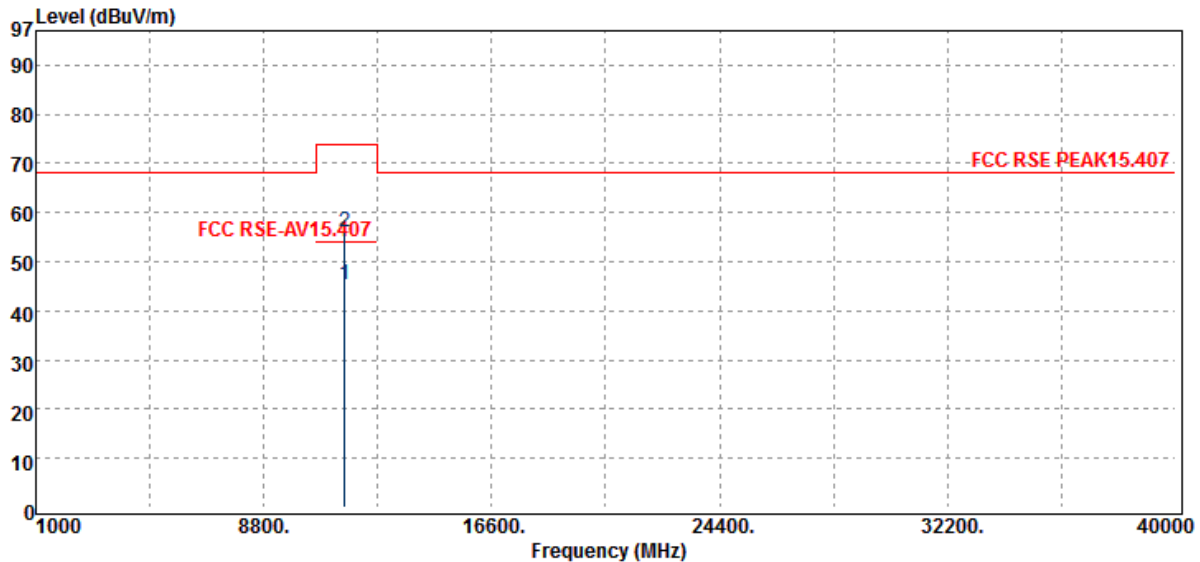
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5785 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11570.00 | H       | Average  | 24.26         | 21.16  | 45.42    | 54.00    | -8.58  |
| 11570.00 | H       | Peak     | 34.90         | 21.16  | 56.06    | 74.00    | -17.94 |

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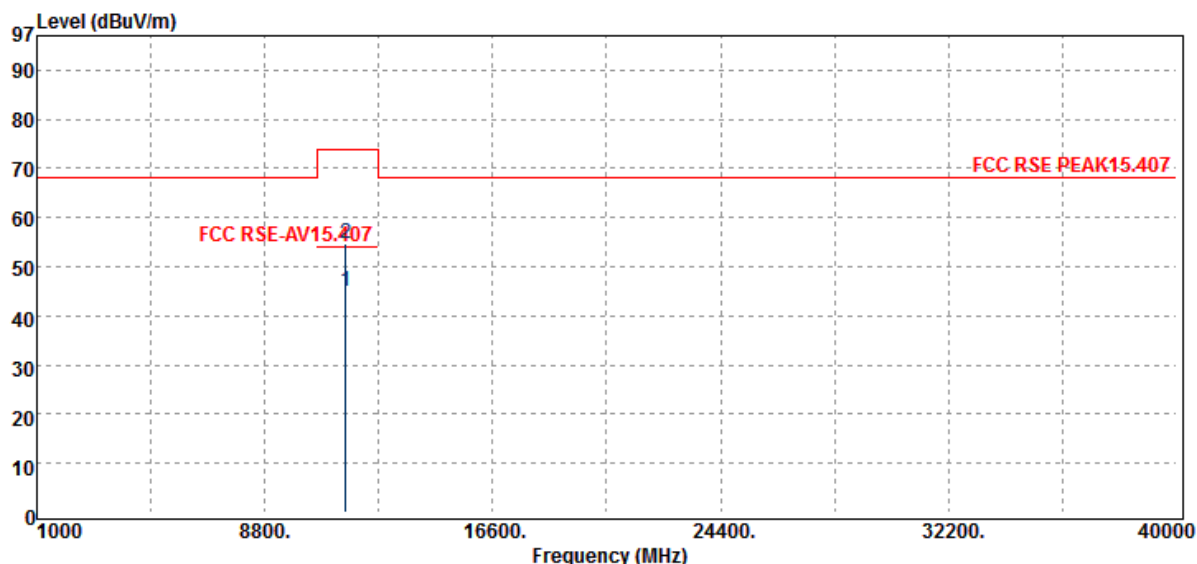
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5785 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID   | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11570.00 | H       | Average  | 23.90         | 21.16  | 45.06    | 54.00    | -8.94  |
| 11570.00 | H       | Peak     | 33.63         | 21.16  | 54.79    | 74.00    | -19.21 |

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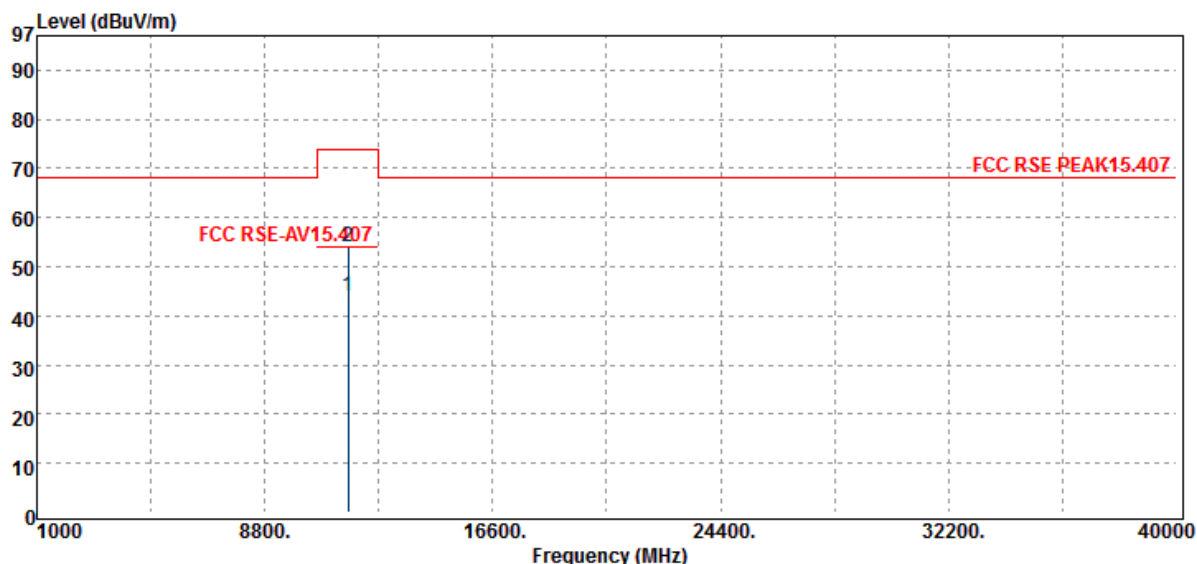
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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5825 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11650.00 | H       | Average  | 23.12         | 20.93  | 44.05    | 54.00    | -9.95  |
| 11650.00 | H       | Peak     | 33.05         | 20.93  | 53.98    | 74.00    | -20.02 |

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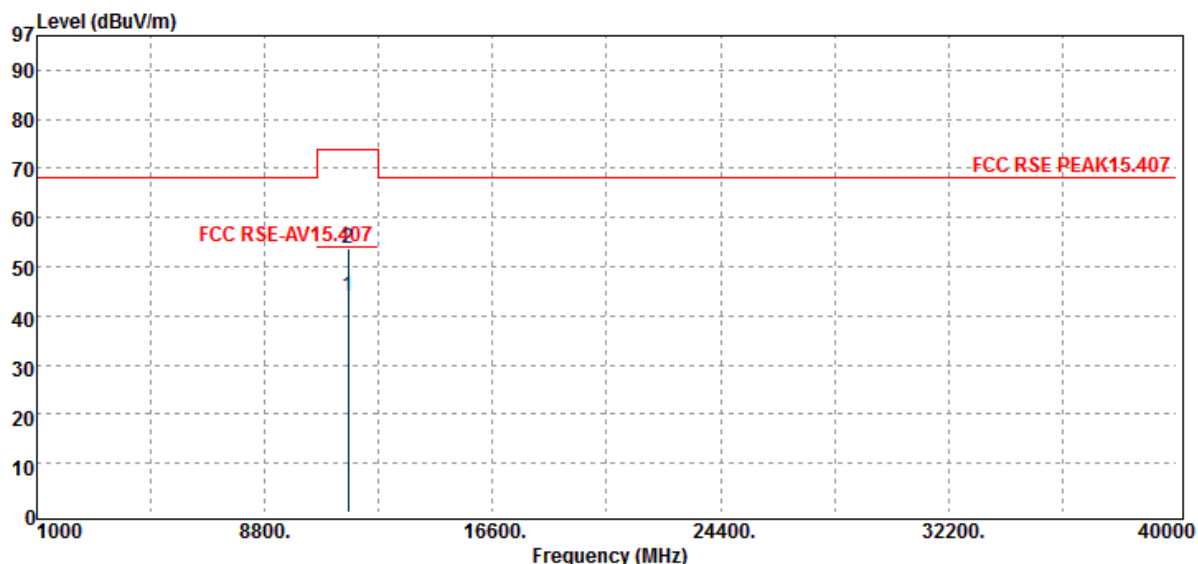
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|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :802.11 a | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5825 MHz | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH  | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan  | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11650.00 | H       | Average  | 23.17         | 20.93  | 44.10    | 54.00    | -9.90  |
| 11650.00 | H       | Peak     | 32.74         | 20.93  | 53.67    | 74.00    | -20.33 |

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**Band edge falling to restricted band**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 63.37                     | 11.04  | 74.41        | 78.20        | -3.79  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a      | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 64.72                     | 11.04  | 75.76        | 78.20        | -2.44  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 58.09                     | 11.50  | 69.59        | 78.20        | -8.61  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 a       | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 55.50                     | 11.50  | 67.00        | 78.20        | -11.20 |

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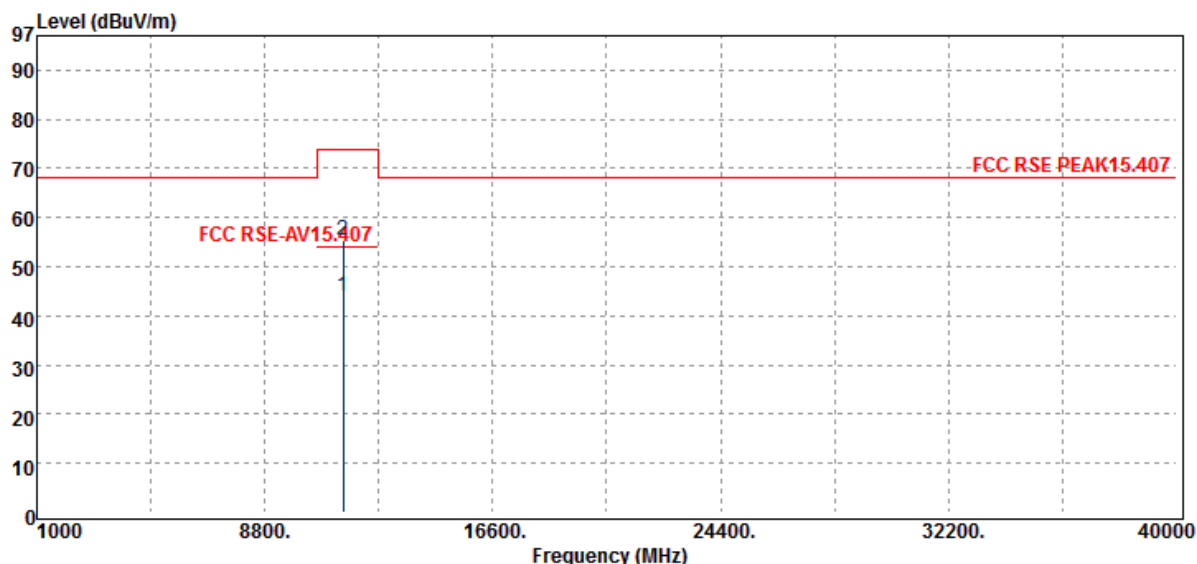
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz (MIMO)**

|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5745 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11490.00 | H       | Average  | 23.22         | 20.81  | 44.03    | 54.00    | -9.97  |
| 11490.00 | H       | Peak     | 34.58         | 20.81  | 55.39    | 74.00    | -18.61 |

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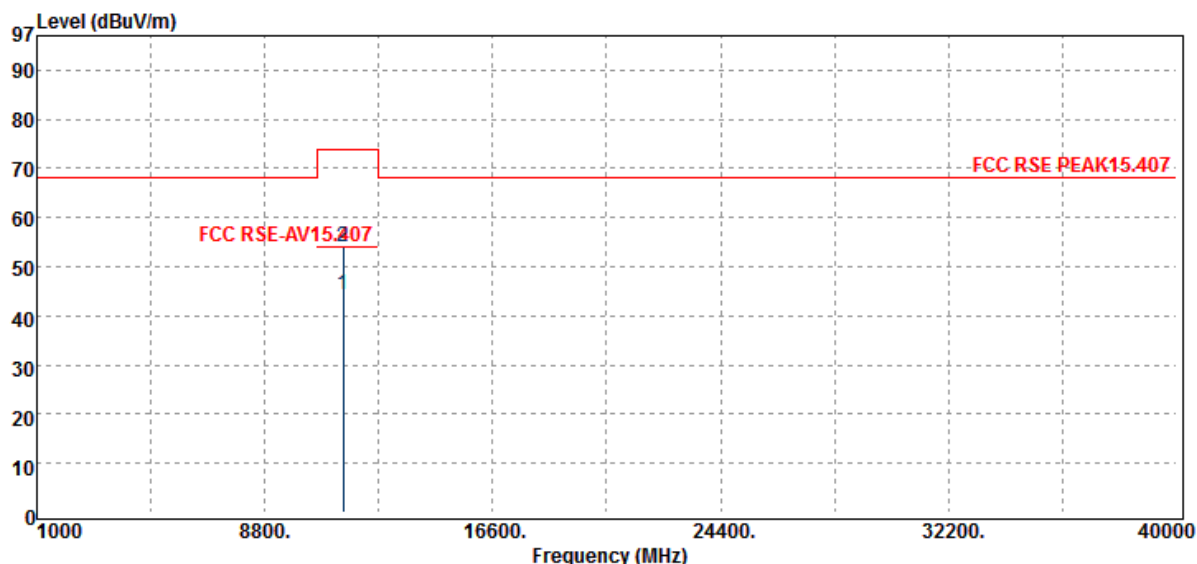
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5745 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11490.00 | H       | Average  | 23.47         | 20.81  | 44.28    | 54.00    | -9.72  |
| 11490.00 | H       | Peak     | 33.19         | 20.81  | 54.00    | 74.00    | -20.00 |

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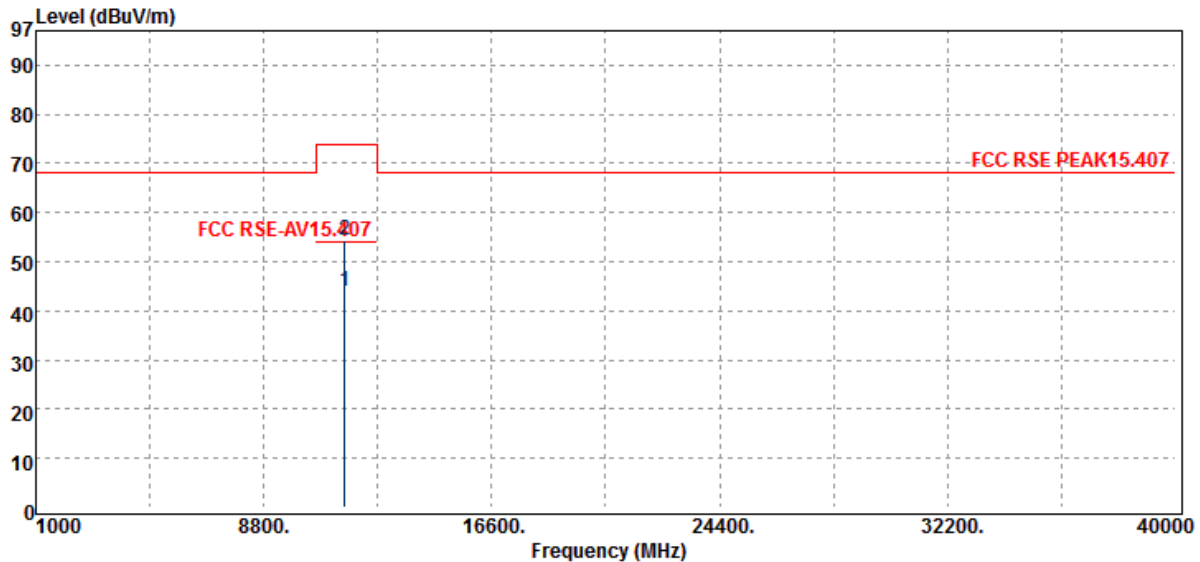
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5785 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL         |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11570.00 | H       | Average  | 22.95         | 21.16  | 44.11    | 54.00    | -9.89  |
| 11570.00 | H       | Peak     | 33.09         | 21.16  | 54.25    | 74.00    | -19.75 |

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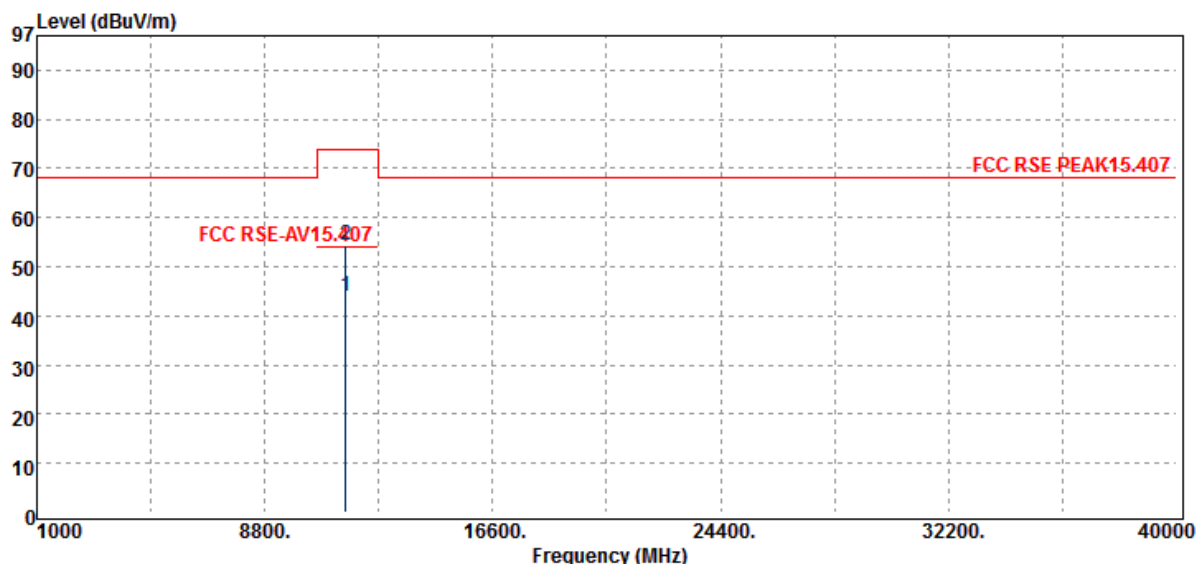
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5785 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX MID      | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11570.00 | H       | Average  | 22.89         | 21.16  | 44.05    | 54.00    | -9.95  |
| 11570.00 | H       | Peak     | 33.17         | 21.16  | 54.33    | 74.00    | -19.67 |

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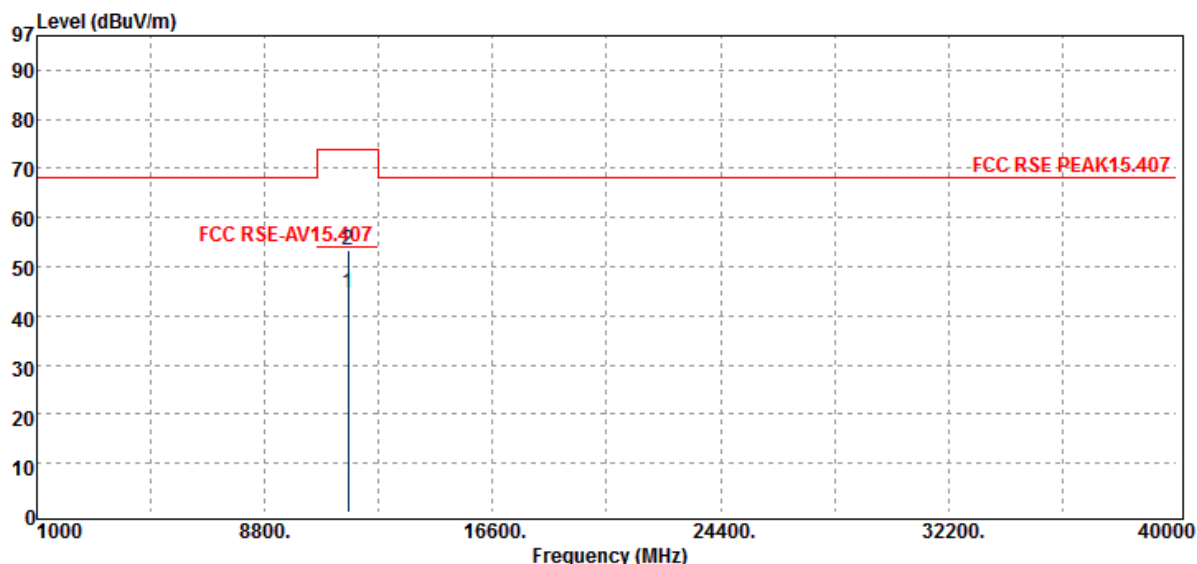
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Operation Band :802.11 n20M  
 Fundamental Frequency :5825 MHz  
 Operation Mode :TX HIGH  
 EUT Pol. :E1 Plan

Test Date :2015-06-25  
 Temp./Humi. :23 deg\_C / 58 RH  
 Engineer :Curry  
 Measurement Antenna Pol. :VERTICAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11650.00 | H       | Average  | 23.66         | 20.93  | 44.59    | 54.00    | -9.41  |
| 11650.00 | H       | Peak     | 32.49         | 20.93  | 53.42    | 74.00    | -20.58 |

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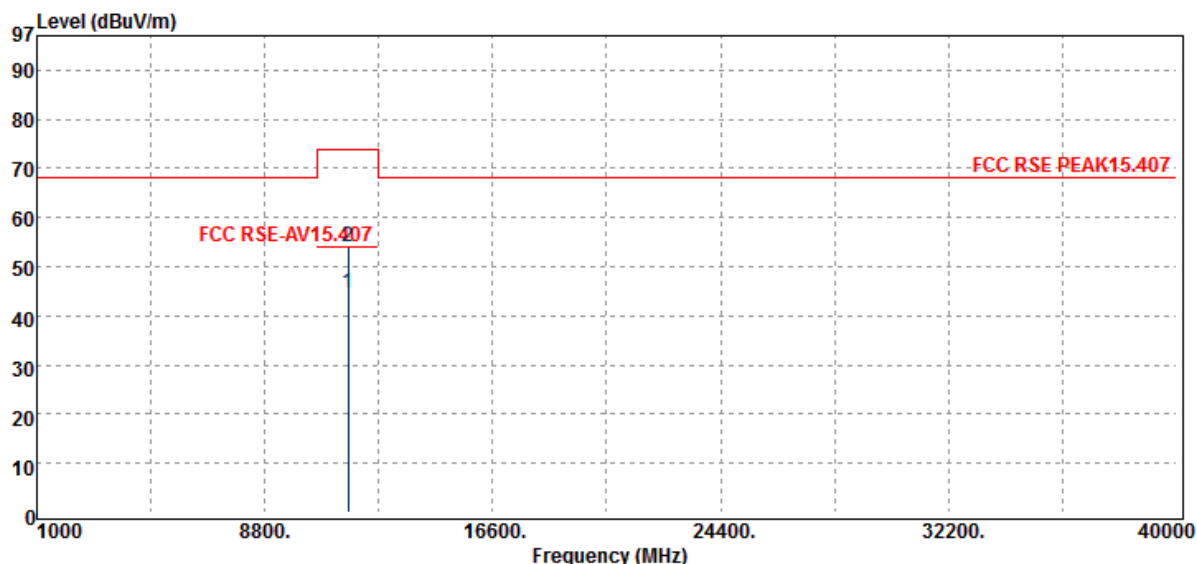
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|                       |              |                          |                   |
|-----------------------|--------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M | Test Date                | :2015-06-25       |
| Fundamental Frequency | :5825 MHz    | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL       |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11650.00 | H       | Average  | 23.71         | 20.93  | 44.64    | 54.00    | -9.36  |
| 11650.00 | H       | Peak     | 33.11         | 20.93  | 54.04    | 74.00    | -19.96 |

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**Band edge falling to restricted band**

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 57.86                     | 11.04  | 68.90        | 78.20        | -9.30  |

|                       |                |                          |                   |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M   | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5745 MHz      | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5725.00 | E       | Peak             | 63.23                     | 11.04  | 74.27        | 78.20        | -3.93  |

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|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 59.48                     | 11.50  | 70.98        | 78.20        | -7.22  |

|                       |                 |                          |                   |
|-----------------------|-----------------|--------------------------|-------------------|
| Operation Band        | :802.11 n20M    | Test Date                | :2015-06-24       |
| Fundamental Frequency | :5825 MHz       | Temp./Humi.              | :23 deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry            |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 53.01                     | 11.50  | 64.51        | 78.20        | -13.69 |

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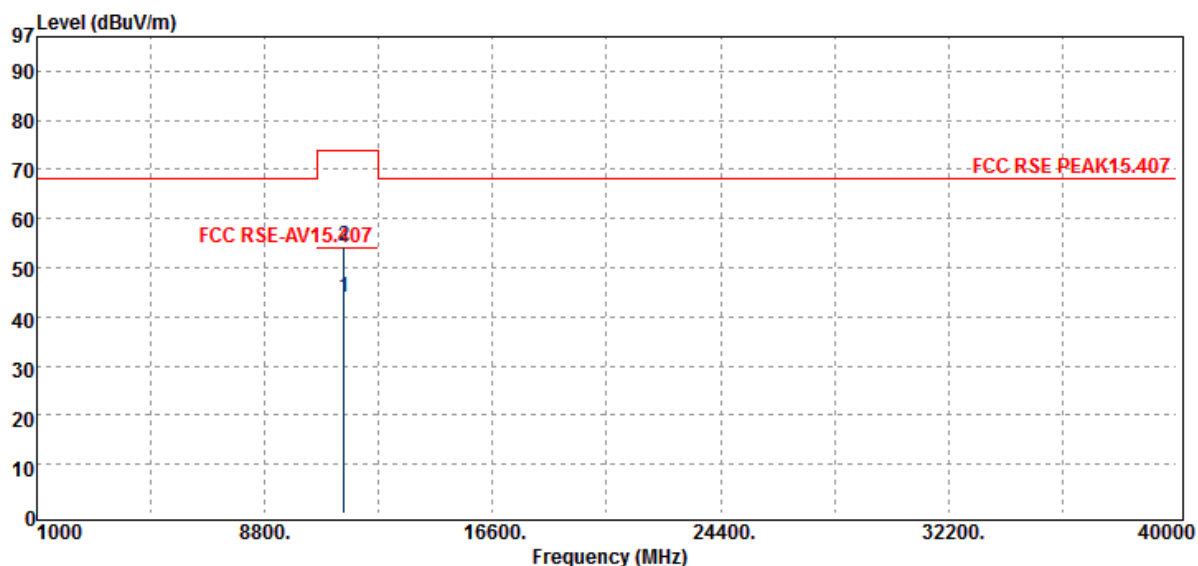
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz (MIMO)**

|                       |              |                          |                  |
|-----------------------|--------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25      |
| Fundamental Frequency | :5755 MHz    | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :TX LOW      | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL        |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS             | @3m            |        |
|          |         | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 11510.00 | H       | Average  | 22.99         | 21.03  | 44.02          | 54.00          | -9.98  |
| 11510.00 | H       | Peak     | 33.37         | 21.03  | 54.40          | 74.00          | -19.60 |

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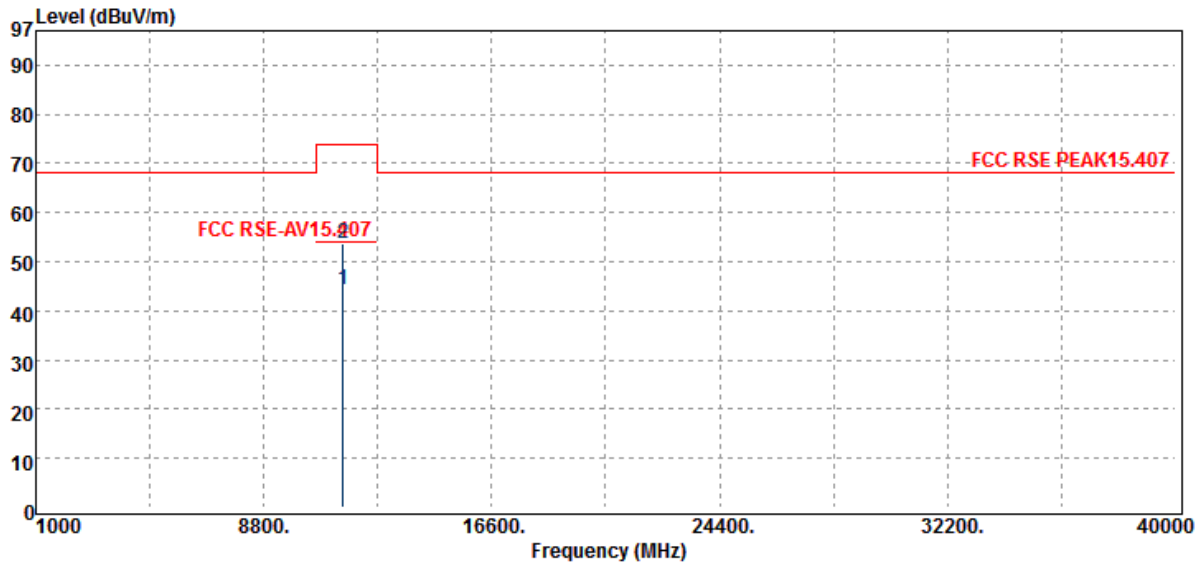
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Operation Band :802.11 n40M  
Fundamental Frequency :5755 MHz  
Operation Mode :TX LOW  
EUT Pol. :E1 Plan

Test Date :2015-06-25  
Temp./Humi. :23deg\_C / 58 RH  
Engineer :Curry  
Measurement Antenna Pol. :HORIZONTAL



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11510.00 | H       | Average  | 23.11         | 21.03  | 44.14    | 54.00    | -9.86  |
| 11510.00 | H       | Peak     | 32.55         | 21.03  | 53.58    | 74.00    | -20.42 |

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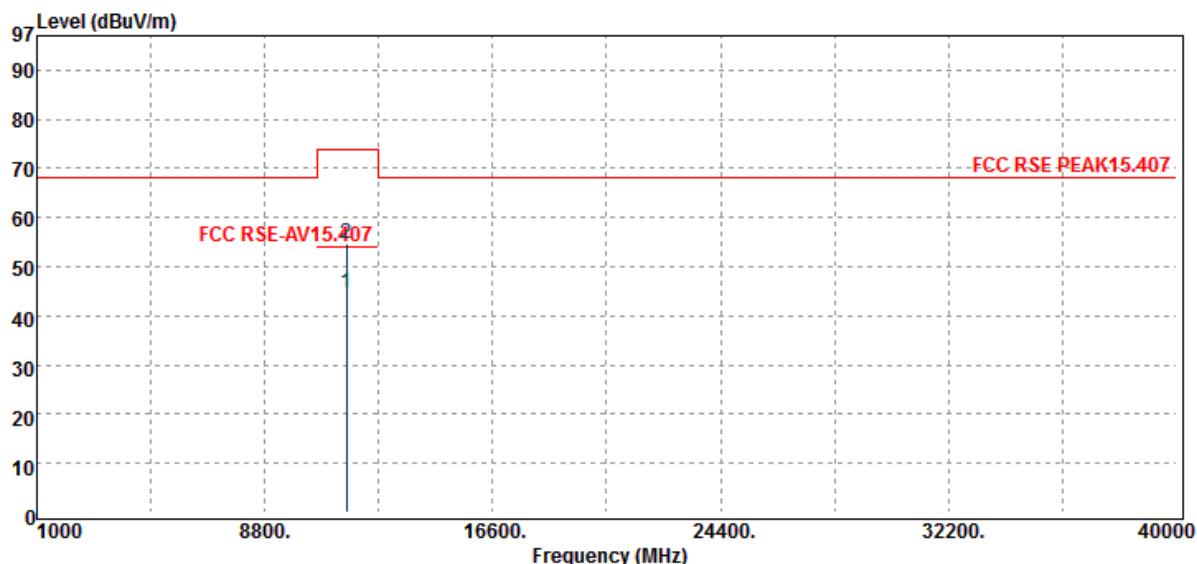
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|                       |              |                          |                  |
|-----------------------|--------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25      |
| Fundamental Frequency | :5795 MHz    | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :VERTICAL        |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual   | Limit    | Margin |
|----------|---------|----------|---------------|--------|----------|----------|--------|
|          |         | Mode     | Reading Level |        | FS       | @3m      |        |
| MHz      | F/H/E/S | PK/QP/AV | dBμV          | dB     | dBμV / m | dBμV / m | dB     |
| 11590.00 | H       | Average  | 23.69         | 21.11  | 44.80    | 54.00    | -9.20  |
| 11590.00 | H       | Peak     | 33.57         | 21.11  | 54.68    | 74.00    | -19.32 |

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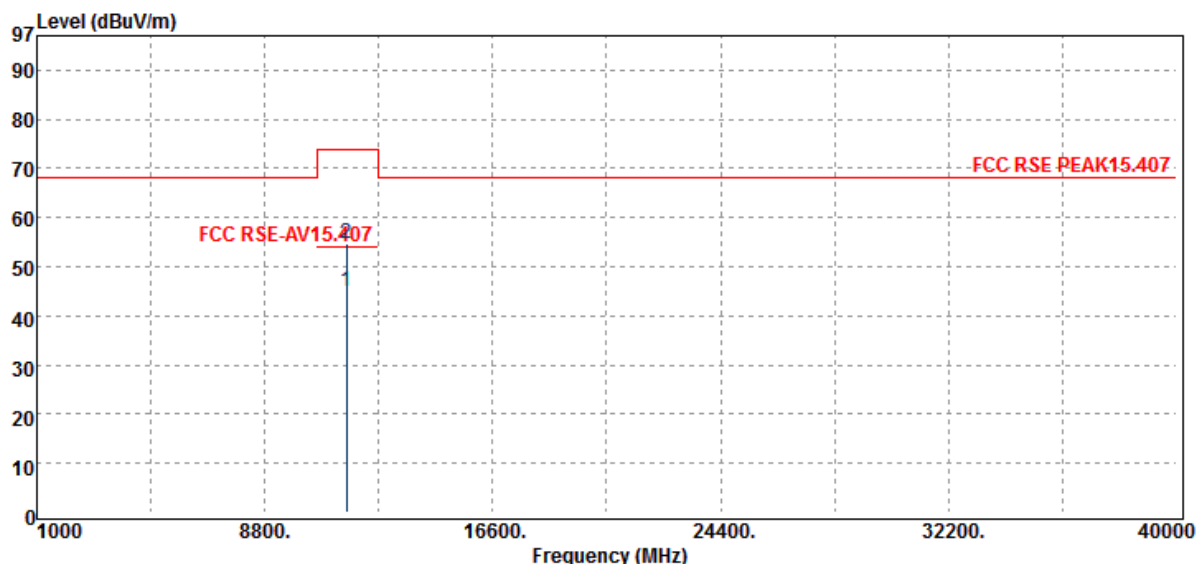
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|                       |              |                          |                  |
|-----------------------|--------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M | Test Date                | :2015-06-25      |
| Fundamental Frequency | :5795 MHz    | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :TX HIGH     | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan     | Measurement Antenna Pol. | :HORIZONTAL      |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual         | Limit          | Margin |
|----------|---------|----------|---------------|--------|----------------|----------------|--------|
|          |         | Mode     | Reading Level |        | FS             | @3m            |        |
| MHz      | F/H/E/S | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 11590.00 | H       | Average  | 23.71         | 21.11  | 44.82          | 54.00          | -9.18  |
| 11590.00 | H       | Peak     | 33.70         | 21.11  | 54.81          | 74.00          | -19.19 |

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**Band edge falling to restricted band**

|                       |                |                          |                  |
|-----------------------|----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5755 MHz      | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :VERTICAL        |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS   | Limit<br>@3m   | Margin |
|---------|---------|------------------|---------------------------|--------|----------------|----------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dB $\mu$ V                | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 5725.00 | E       | Peak             | 60.73                     | 11.04  | 71.77          | 78.20          | -6.43  |

|                       |                |                          |                  |
|-----------------------|----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M   | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5755 MHz      | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge LOW | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan       | Measurement Antenna Pol. | :HORIZONTAL      |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS   | Limit<br>@3m   | Margin |
|---------|---------|------------------|---------------------------|--------|----------------|----------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dB $\mu$ V                | dB     | dB $\mu$ V / m | dB $\mu$ V / m | dB     |
| 5725.00 | E       | Peak             | 60.06                     | 11.04  | 71.10          | 78.20          | -7.10  |

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|-----------------------|-----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5795 MHz       | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :VERTICAL        |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 52.91                     | 11.50  | 64.41        | 78.20        | -13.79 |

|                       |                 |                          |                  |
|-----------------------|-----------------|--------------------------|------------------|
| Operation Band        | :802.11 n40M    | Test Date                | :2015-06-24      |
| Fundamental Frequency | :5795 MHz       | Temp./Humi.              | :23deg_C / 58 RH |
| Operation Mode        | :Band Edge HIGH | Engineer                 | :Curry           |
| EUT Pol.              | :E1 Plan        | Measurement Antenna Pol. | :HORIZONTAL      |

| Freq.   | Note    | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz     | F/H/E/S | PK/QP/AV         | dBμV                      | dB     | dBμV / m     | dBμV / m     | dB     |
| 5850.00 | E       | Peak             | 53.44                     | 11.50  | 64.94        | 78.20        | -13.26 |

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## 12. TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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## 13. FREQUENCY STABILITY

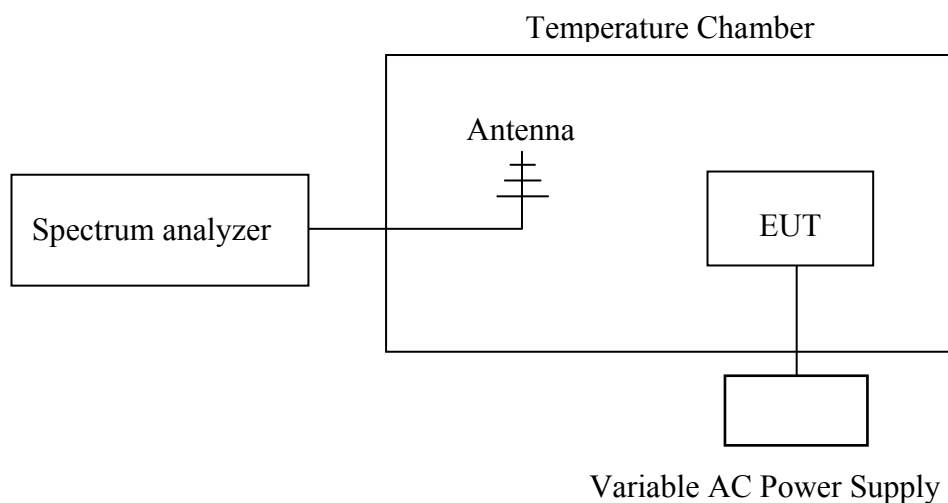
### 13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

### 13.3 Test SET-UP



### 13.4 Measurement Equipment Used

| Conducted Emission Test Site |          |              |               |            |            |
|------------------------------|----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE               | MFR      | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer            | Agilent  | E4446A       | MY51100003    | 01/29/2015 | 01/28/2016 |
| Temperature Chamber          | TERCHY   | MHG-120LF    | 911009        | 05/06/2015 | 05/05/2016 |
| AC Power Supply              | APW-105N | 887592       | All Power     | N/A        | N/A        |

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## 13.5 Measurement Result

|                |      |           |            |
|----------------|------|-----------|------------|
| Operation Mode | TX   | Test Date | 2015.07.01 |
| Temperature    | 25   | Test By   | Cooper     |
| Humidity       | 62 % |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | $\Delta$ Frequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|--------------------------|
| 25         | 7.4V         | 36      | 5180.0000                | 5,180.012431             | -0.0124                  |
|            |              | 44      | 5220.0000                | 5,220.012516             | -0.0125                  |
|            |              | 48      | 5240.0000                | 5,240.012364             | -0.0124                  |
|            |              | 52      | 5260.0000                | 5,260.012451             | -0.0125                  |
|            |              | 60      | 5300.0000                | 5,300.012396             | -0.0124                  |
|            |              | 64      | 5320.0000                | 5,320.012357             | -0.0124                  |
|            |              | 100     | 5500.0000                | 5,500.012422             | -0.0124                  |
|            |              | 116     | 5580.0000                | 5,580.012412             | -0.0124                  |
|            |              | 140     | 5700.0000                | 5,700.012461             | -0.0125                  |
|            |              | 149     | 5745.0000                | 5,745.012511             | -0.0125                  |
|            |              | 157     | 5785.0000                | 5,785.012486             | -0.0125                  |
|            |              | 165     | 5825.0000                | 5,825.012400             | -0.0124                  |
| -20        | 8.14V        | 36      | 5180.0000                | 5,180.012431             | -0.0124                  |
|            |              | 44      | 5220.0000                | 5,220.012516             | -0.0125                  |
|            |              | 48      | 5240.0000                | 5,240.012364             | -0.0124                  |
|            |              | 52      | 5260.0000                | 5,260.012451             | -0.0125                  |
|            |              | 60      | 5300.0000                | 5,300.012396             | -0.0124                  |
|            |              | 64      | 5320.0000                | 5,320.012357             | -0.0124                  |
|            |              | 100     | 5500.0000                | 5,500.012422             | -0.0124                  |
|            |              | 116     | 5580.0000                | 5,580.012412             | -0.0124                  |
|            |              | 140     | 5700.0000                | 5,700.012461             | -0.0125                  |
|            |              | 149     | 5745.0000                | 5,745.012511             | -0.0125                  |
|            |              | 157     | 5785.0000                | 5,785.012486             | -0.0125                  |
|            |              | 165     | 5825.0000                | 5,825.012400             | -0.0124                  |

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|     |       |     |           |              |         |
|-----|-------|-----|-----------|--------------|---------|
| 50  | 8.14V | 36  | 5180.0000 | 5,180.012431 | -0.0124 |
|     |       | 44  | 5220.0000 | 5,220.012516 | -0.0125 |
|     |       | 48  | 5240.0000 | 5,240.012364 | -0.0124 |
|     |       | 52  | 5260.0000 | 5,260.012451 | -0.0125 |
|     |       | 60  | 5300.0000 | 5,300.012396 | -0.0124 |
|     |       | 64  | 5320.0000 | 5,320.012357 | -0.0124 |
|     |       | 100 | 5500.0000 | 5,500.012422 | -0.0124 |
|     |       | 116 | 5580.0000 | 5,580.012412 | -0.0124 |
|     |       | 140 | 5700.0000 | 5,700.012461 | -0.0125 |
|     |       | 149 | 5745.0000 | 5,745.012511 | -0.0125 |
|     |       | 157 | 5785.0000 | 5,785.012486 | -0.0125 |
|     |       | 165 | 5825.0000 | 5,825.012400 | -0.0124 |
| -20 | 6.66V | 36  | 5180.0000 | 5,180.012431 | -0.0124 |
|     |       | 44  | 5220.0000 | 5,220.012516 | -0.0125 |
|     |       | 48  | 5240.0000 | 5,240.012364 | -0.0124 |
|     |       | 52  | 5260.0000 | 5,260.012451 | -0.0125 |
|     |       | 60  | 5300.0000 | 5,300.012396 | -0.0124 |
|     |       | 64  | 5320.0000 | 5,320.012357 | -0.0124 |
|     |       | 100 | 5500.0000 | 5,500.012422 | -0.0124 |
|     |       | 116 | 5580.0000 | 5,580.012412 | -0.0124 |
|     |       | 140 | 5700.0000 | 5,700.012461 | -0.0125 |
|     |       | 149 | 5745.0000 | 5,745.012511 | -0.0125 |
|     |       | 157 | 5785.0000 | 5,785.012486 | -0.0125 |
|     |       | 165 | 5825.0000 | 5,825.012400 | -0.0124 |
| 50  | 6.66V | 36  | 5180.0000 | 5,180.012431 | -0.0124 |
|     |       | 44  | 5220.0000 | 5,220.012516 | -0.0125 |
|     |       | 48  | 5240.0000 | 5,240.012364 | -0.0124 |
|     |       | 52  | 5260.0000 | 5,260.012451 | -0.0125 |
|     |       | 60  | 5300.0000 | 5,300.012396 | -0.0124 |
|     |       | 64  | 5320.0000 | 5,320.012357 | -0.0124 |
|     |       | 100 | 5500.0000 | 5,500.012422 | -0.0124 |
|     |       | 116 | 5580.0000 | 5,580.012412 | -0.0124 |
|     |       | 140 | 5700.0000 | 5,700.012461 | -0.0125 |
|     |       | 149 | 5745.0000 | 5,745.012511 | -0.0125 |
|     |       | 157 | 5785.0000 | 5,785.012486 | -0.0125 |
|     |       | 165 | 5825.0000 | 5,825.012400 | -0.0124 |

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## 14. ANTENNA REQUIREMENT

### 14.1 Standard Applicable

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

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power power limit.

~ End of Report ~

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