# FCC 47 CFR PART 15 SUBPART E AND ANSI C63.10:2013 TEST REPORT

**For**

**Computer**

**Model : MIT-W101 ; MIT-W101XXXXXXXXXXXXXXX**
**(where "X" may be any alphanumeric character , "-" or blank)**

**Trade Name : ADVANTECH**

**Issued for**

**Advantech Co. Ltd.**

**No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.**

**Issued by**

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**Issued Date: April 21, 2016**

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# Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|---|---|---|---|---|
| 00 | 11/23/2015 | Initial Issue | All Page 203 | Michelle Chiu |
| 01 | 12/03/2015 | Added one adapter | P.6, P.8, P.183-184, All Page 205 | Michelle Chiu |
| 02 | 04/21/2016 | Revised Power & PSD Limit | P.16, P.33-38, P.56-58, P.62-66 | Gloria Chang |
| | | | | |
| | | | | |


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# 1. TEST REPORT CERTIFICATION

| | | |
|---|---|---|
| **Applicant** | ： | Advantech Co. Ltd. |
| **Address** | ： | No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C. |
| **Equipment Under Test** | ： | Computer |
| **Model** | ： | MIT-W101; MIT-W101XXXXXXXXXXXXXXX (where "X" may be any alphanumeric character , "-" or blank) |
| **Trade Name** | ： | ADVANTECH |
| **Tested Date** | ： | July 23 ~ November 09, 2015 |

| APPLICABLE STANDARD | |
|---|---|
| **Standard** | **Test Result** |
| FCC Part 15 Subpart E AND ANSI C63.10:2013 | PASS |

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

***Approved by:***

Sb. Lu
Sr. Engineer

***Reviewed by:***

Gundam Lin
Sr. Engineer



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# 2. EUT DESCRIPTION

| | |
|---|---|
| **Product Name** | Computer |
| **Model Number** | MIT-W101; MIT-W101XXXXXXXXXXXXXXX<br>(where “X” may be any alphanumeric character , “-” or blank) |
| **Identify Number** | T150723L02 |
| **Received Date** | July 23, 2015 |
| **Frequency Range** | UNII Band 1:<br>IEEE 802.11a, 802.11an HT20 : 5180MHz ~ 5240MHz<br>IEEE 802.11an HT40 : 5190MHz ~ 5230MH<br>UNII Band 2A:<br>IEEE 802.11a, 802.11an HT20 : 5260MHz ~ 5320MHz<br>IEEE 802.11an HT40 : 5270MHz ~ 5310MHz<br>UNII Band 2C:<br>IEEE 802.11a, 802.11an HT20 : 5500MHz ~ 5700MHz<br>IEEE 802.11an HT40 : 5510MHz ~ 5670MHz<br>(Exclude 5600MHz ~ 5650MHz)<br>UNII Band 3:<br>IEEE 802.11a, 802.11an HT20 : 5745MHz ~ 5825MHz<br>IEEE 802.11an HT40 : 5755MHz ~ 5795MHz |
| **Transmit Power** | UNII Band 1:<br>IEEE 802.11a : 16.16dBm (0.0413W)<br>IEEE 802.11an HT20 : 16.38dBm (0.0435W)<br>IEEE 802.11an HT40 : 16.30dBm (0.0427W)<br>UNII Band 2A:<br>IEEE 802.11a : 16.26dBm (0.0423W)<br>IEEE 802.11an HT20 : 16.28dBm (0.0425W)<br>IEEE 802.11an HT40 : 15.99dBm (0.0397W)<br>UNII Band 2C:<br>IEEE 802.11a : 16.14dBm (0.0411W)<br>IEEE 802.11an HT20 : 16.03dBm (0.0401W)<br>IEEE 802.11an HT40 : 16.13dBm (0.0410 W)<br>UNII Band 3:<br>IEEE 802.11a : 16.27dBm (0.0424W)<br>IEEE 802.11an HT20 : 15.36dBm (0.0344W)<br>IEEE 802.11an HT40 : 15.66dBm (0.0368W) |
| **Channel Spacing** | IEEE 802.11a, 802.11an HT20 : 20MHz<br>IEEE 802.11an HT40 : 40MHz |


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| | |
|---|---|
| **Channel Number** | IEEE 802.11a, 802.11an HT20 :<br>5150MHz ~ 5250MHz : 4 Channels<br>5250MHz ~ 5350MHz : 4 Channels<br>5470MHz ~ 5725MHz : 8 Channels<br>5725MHz ~ 5850MHz : 5 Channels<br>IEEE 802.11an HT40 : 5150MHz ~ 5250MHz : 2 Channels<br>5250MHz ~ 5350MHz : 2 Channels<br>5470MHz ~ 5725MHz : 3 Channels<br>5725MHz ~ 5850MHz : 2 Channels |
| **Transmit Data Rate** | IEEE 802.11a : up to 54 Mbps<br>IEEE 802.11an (HT20,800ns GI) : up to 130.00 Mbps<br>IEEE 802.11an (HT20,400ns GI) : up to 144.40 Mbps<br>IEEE 802.11an (HT40,800ns GI) : up to 270.00 Mbps<br>IEEE 802.11an (HT40,400ns GI) : up to 300.00 Mbps |
| **Type of Modulation** | IEEE 802.11a : OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11an HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK) |
| **Antenna Type** | PIFA Antenna × 2 :<br>Antenna 1(Main) / Chain 0, Antenna Gain: 4.26dBi<br>Antenna 2(Aux) / Chain 1, Antenna Gain : 5.19dBi |
| **Power Rating** | 11.1Vdc, 2860mAh, 31.75WH (For Battery)<br>19Vdc (For Charging) |
| **Test Voltage** | 120Vac, 60Hz |
| **AC Power Cord Type** | Non-shielded cable, 1.8m (Detachable)<br>(For Power Adapter 1, 2) |
| **DC Power Cable Type** | Non-shielded cable, 1.5m (Non-detachable), with a ferrite core<br>(For Power Adapter 1, 2) |
| **I/O Port** | Micro HDMI Port × 1, USB Port × 2, Audio Port × 1, Power Port × 1, Docking Connector × 1, Connected pin for expansion module × 1 |

**Power Adapter :**

| No. | Manufacturer | Model No. | Power Input | Power Output |
|---|---|---|---|---|
| 1 | FSP | FSP065-REBN2 | 100-240Vac, 1.5A, 50-60Hz | 19Vdc, 3.42A |
| 2 | SINPRO | HPU63A-107 | 100-240Vac, 1.62-0.72A, 47-63Hz | 18Vdc, 3.5A max |


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**The difference of the series model**

| Model Number | Difference |
|---|---|
| MIT-W101 | 1. For marketing purpose only.<br>2. where "X" may be any alphanumeric character , "-" or blank |
| MIT-W101XXXXXXXXXXXXXXX | |

***Remark :***

*1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.*

*2. For more details, please refer to the User's manual of the EUT.*

*3. The model MIT-W101 was considered the main model for testing.*

*4. This submittal(s) (test report) is intended for FCC ID: M82-MITW101 filing to comply with Section 15.207, 15.209 and 15.407 of the FCC Part 15, Subpart E Rules.*



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# 3. DESCRIPTION OF TEST MODES

The EUT (MIT-W101) had been tested under operating condition.

The EUT is an 802.11n transceiver in Computer form factor.

For IEEE 802.11a, E 802.11an HT20/HT40 mode : 2TX / 2RX.

**Conducted Emission / Radiated Emission Test (Below 1 GHz)**

1. The following test modes were scanned during the preliminary test:

| No. | Pre-Test Mode |
|---|---|
| 1 | TX Mode / Power Adapter 1 |
| 2 | TX Mode / Power Adapter 2 |

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

| Final Test Mode | | |
|---|---|---|
| Emission | Radiated Emission | Mode 1 |
| | Conducted Emission | Mode 1 |

***Remark :*** *Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.*



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**Conducted / Radiated Emission Test (Above 1 GHz)**

**IEEE 802.11a, 802.11an HT20 mode**

The EUT had been tested under operating condition.

There are three channels have been tested as following :

**UNII Band 1:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5180 |
| Middle | 5220 |
| High | 5240 |

**UNII Band 2A:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5260 |
| Middle | 5280 |
| High | 5320 |

**UNII Band 2C:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5500 |
| Middle | 5580 |
| High | 5700 |

**UNII Band 3:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5745 |
| Middle | 5785 |
| High | 5825 |

IEEE 802.11a mode : 6Mbps data rate (worst case) were chosen for full testing.
IEEE 802.11an HT20 mode : 6.5Mbps data rate (worst case) were chosen for full testing.



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**IEEE 802.11an HT40 mode**

The EUT had been tested under operating condition.

There are two and three channels have been tested as following :

**UNII Band 1:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5190 |
| High | 5230 |

**UNII Band 2A:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5270 |
| High | 5310 |

**UNII Band 2C:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5510 |
| Middle | 5550 |
| High | 5670 |

**UNII Band 3:**

| Channel | Frequency (MHz) |
|---|---|
| Low | 5755 |
| High | 5795 |

IEEE 802.11an HT40 mode : 13.5Mbps data rate (worst case) were chosen for full testing.

***Remark*** *：The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X, Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.*



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# 4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47, 15.207, 15.209 and 15. 407.

# 5. FACILITIES AND ACCREDITATION

## 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

NO. 989-1, Wenshan Rd., Shangshan Village,
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

## 5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

| | |
|---|---|
| **Taiwan** | TAF |

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

| | |
|---|---|
| **Canada** | INDUSTRY CANADA |
| **Japan** | VCCI |
| **Taiwan** | BSMI |
| **USA** | FCC MRA |

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com



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## 5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

| PARAMETER | UNCERTAINTY |
|---|---|
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz | +/- 3.97 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz | +/- 3.58 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz | +/- 3.59 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz | +/- 3.81 |
| Conducted Emission (Mains Terminals), 9kHz to 30MHz | +/- 2.48 |

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

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than $U_{CISPR}$ which is 3.6dB and 5.2dB respectively. CCS values (called $U_{Lab}$ in CISPR 16-4-2) is less than $U_{CISPR}$ as shown in the table above. Therefore, MU need not be considered for compliance.



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# 6. SETUP OF EQUIPMENT UNDER TEST

## SUPPORT EQUIPMENT

| No. | Product | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| 1 | Notebook PC | HP | ProBook 4421s | CNF03242PJ |

| No. | Signal Cable Description |
|---|---|
| 1 | Non-shielded RJ-45 cable, 12m × 1 |

## SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

## EUT OPERATING CONDITION

1. EUT & peripherals setup diagram is shown in appendix setup photos.
2. TX Mode:
   - ⇨ **Tx Data Rate:** 6Mbps Bandwidth 20 (IEEE 802.11a mode)
     6.5Mbps Bandwidth 20 (IEEE 802.11an HT20 mode)
     13.5Mbps Bandwidth 40 (IEEE 802.11an HT40 mode)
   - ⇨ **Power control :**

     **UNII Band 1**

     IEEE 802.11a Channel Low (5180MHz) Chain 0/1 Power set 13
     IEEE 802.11a Channel Mid (5220MHz) Chain 0/1 Power set 13
     IEEE 802.11a Channel High (5240MHz) Chain 0/1 Power set 13
     IEEE 802.11an HT20 Channel Low (5180MHz) Chain 0/1 Power set 13
     IEEE 802.11an HT20 Channel Mid (5220MHz) Chain 0/1 Power set 13.5
     IEEE 802.11an HT20 Channel High (5240MHz) Chain 0/1 Power set 13.5
     IEEE 802.11an HT40 Channel Low (5190MHz) Chain 0/1 Power set 10.5
     IEEE 802.11an HT40 Channel High (5230MHz) Chain 0/1 Power set 13

     **UNII Band 2A**

     IEEE 802.11a Channel Low (5260MHz) Chain 0/1 Power set 13.5
     IEEE 802.11a Channel Mid (5280MHz) Chain 0/1 Power set 13.5
     IEEE 802.11a Channel High (5320MHz) Chain 0/1 Power set 13.5
     IEEE 802.11an HT20 Channel Low (5260MHz) Chain 0/1 Power set 13.5
     IEEE 802.11an HT20 Channel Mid (5280MHz) Chain 0/1 Power set 13
     IEEE 802.11an HT20 Channel High (5320MHz) Chain 0/1 Power set 13
     IEEE 802.11an HT40 Channel Low (5270MHz) Chain 0/1 Power set 13
     IEEE 802.11an HT40 Channel High (5310MHz) Chain 0/1 Power set 11.5


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**UNII Band 2C**

IEEE 802.11a Channel Low (5500MHz) Chain 0/1 Power set 12.5
IEEE 802.11a Channel Mid (5580MHz) Chain 0/1 Power set 13
IEEE 802.11a Channel High (5700MHz) Chain 0/1 Power set 13
IEEE 802.11an HT20 Channel Low (5500MHz) Chain 0/1 Power set 12.5
IEEE 802.11an HT20 Channel Mid (5580MHz) Chain 0/1 Power set 13
IEEE 802.11an HT20 Channel High (5700MHz) Chain 0/1 Power set 13
IEEE 802.11an HT40 Channel Low (5510MHz) Chain 0/1 Power set 12.5
IEEE 802.11an HT40 Channel Mid (5550MHz) Chain 0/1 Power set 13
IEEE 802.11an HT40 Channel High (5670MHz) Chain 0/1 Power set 13.5

**UNII Band 3**

IEEE 802.11a Channel Low (5745MHz) Chain 0/1 Power set 8.5
IEEE 802.11a Channel Mid (5785MHz) Chain 0/1 Power set 12.5
IEEE 802.11a Channel High (5825MHz) Chain 0/1 Power set 12.5
IEEE 802.11an HT20 Channel Low (5745MHz) Chain 0/1 Power set 7.5
IEEE 802.11an HT20 Channel Mid (5785MHz) Chain 0/1 Power set 12
IEEE 802.11an HT20 Channel High (5825MHz) Chain 0/1 Power set 11
IEEE 802.11an HT40 Channel Low (5755MHz) Chain 0/1 Power set 9
IEEE 802.11an HT40 Channel High (5795MHz) Chain 0/1 Power set 12.5

3. All of the functions are under run.
4. Start test.


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# 7. FCC PART 15.407 REQUIREMENTS

## 7.1 26dB BANDWIDTH

**LIMITS**

§ 15.303 (c), For purposes of this subpart, the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

**TEST EQUIPMENT**

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| EXA Signal Analyzer | Agilent | N9010A | MY52220817 | 03/19/2016 |

***Remark:*** *Each piece of equipment is scheduled for calibration once a year.*

**TEST SETUP**

**TEST PROCEDURE**

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.


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## TEST RESULTS

**IEEE 802.11a Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | 26dB Bandwidth (MHz) | |
|---|---|---|---|---|
| | | | Chain 0 | Chain 1 |
| Band 2A | Low | 5260 | 29.42 | 27.00 |
| | Middle | 5280 | 37.30 | 27.15 |
| | High | 5320 | 29.93 | 28.56 |
| Band 2C | Low | 5500 | 39.97 | 29.95 |
| | Middle | 5580 | 39.41 | 39.25 |
| | High | 5700 | 27.42 | 25.05 |

**IEEE 802.11an HT20 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | 26dB Bandwidth (MHz) | |
|---|---|---|---|---|
| | | | Chain 0 | Chain 1 |
| Band 2A | Low | 5260 | 39.45 | 29.94 |
| | Middle | 5280 | 38.72 | 29.38 |
| | High | 5320 | 29.99 | 28.00 |
| Band 2C | Low | 5500 | 39.31 | 29.89 |
| | Middle | 5580 | 39.86 | 39.14 |
| | High | 5700 | 28.38 | 26.02 |

**IEEE 802.11an HT40 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | 26dB Bandwidth (MHz) | |
|---|---|---|---|---|
| | | | Chain 0 | Chain 1 |
| Band 2A | Low | 5270 | 47.84 | 41.23 |
| | High | 5310 | 42.20 | 40.73 |
| Band 2C | Low | 5510 | 41.87 | 40.20 |
| | Middle | 5550 | 45.04 | 41.72 |
| | High | 5670 | 51.09 | 43.87 |


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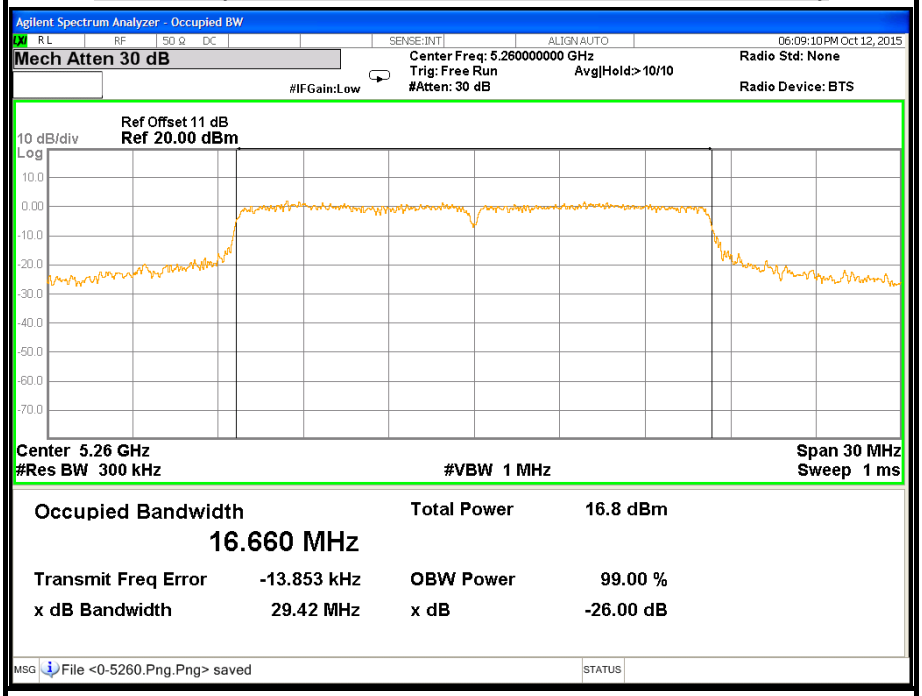
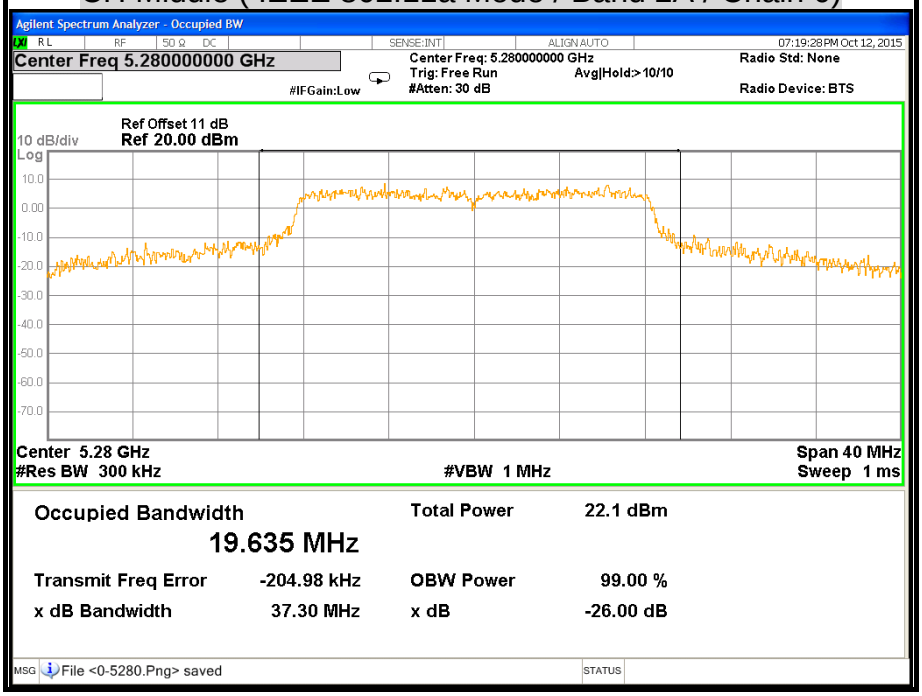
## 26dB BANDWIDTH

CH Low ( IEEE 802.11a Mode / Band 2A / Chain 0 )




CH Middle ( IEEE 802.11a Mode / Band 2A / Chain 0)





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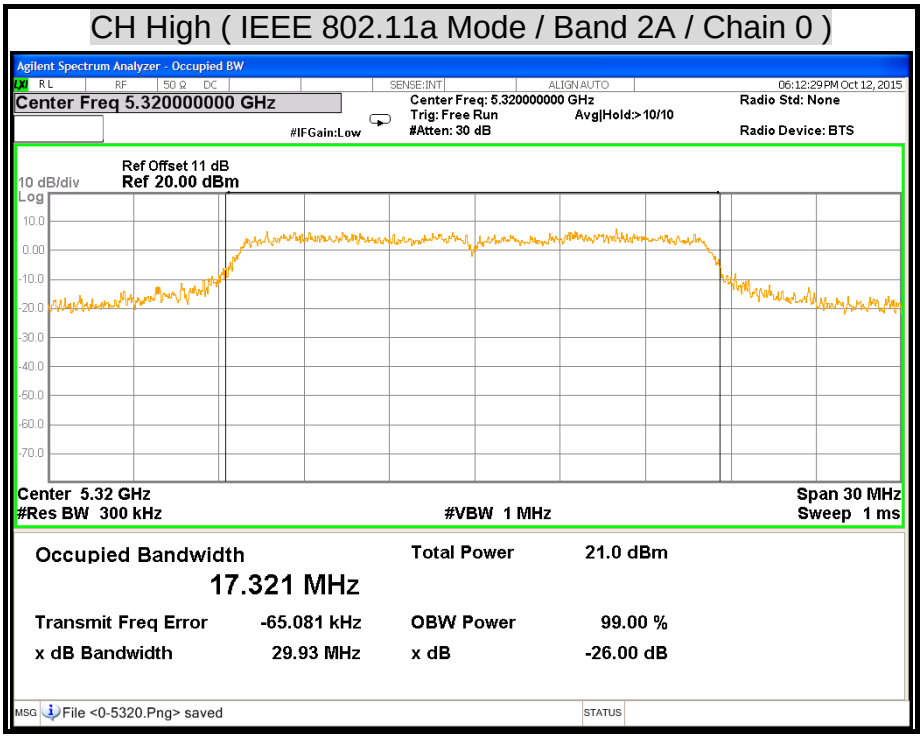
CH High ( IEEE 802.11a Mode / Band 2A / Chain 0 )



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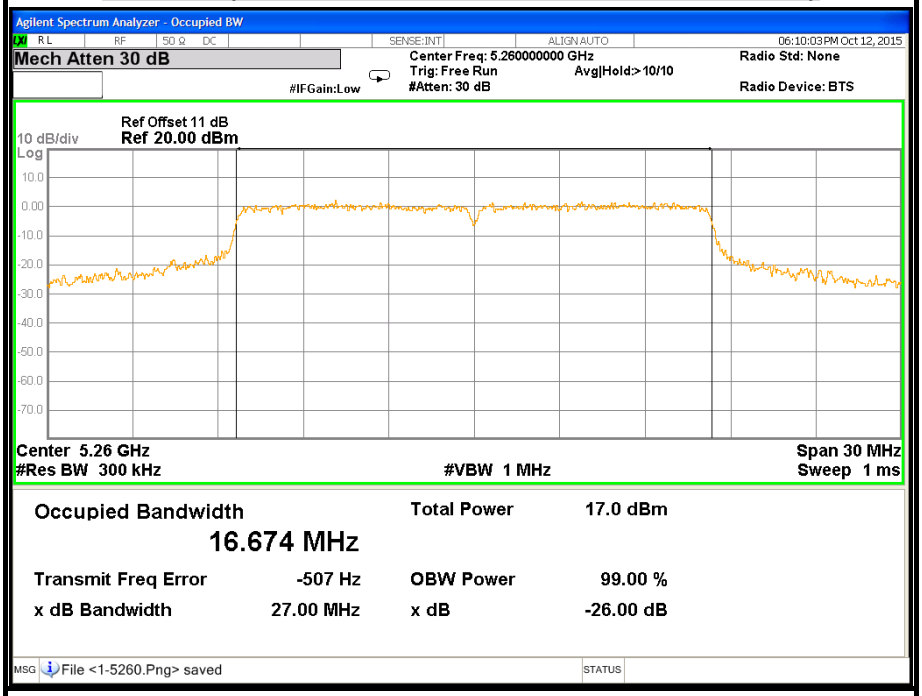
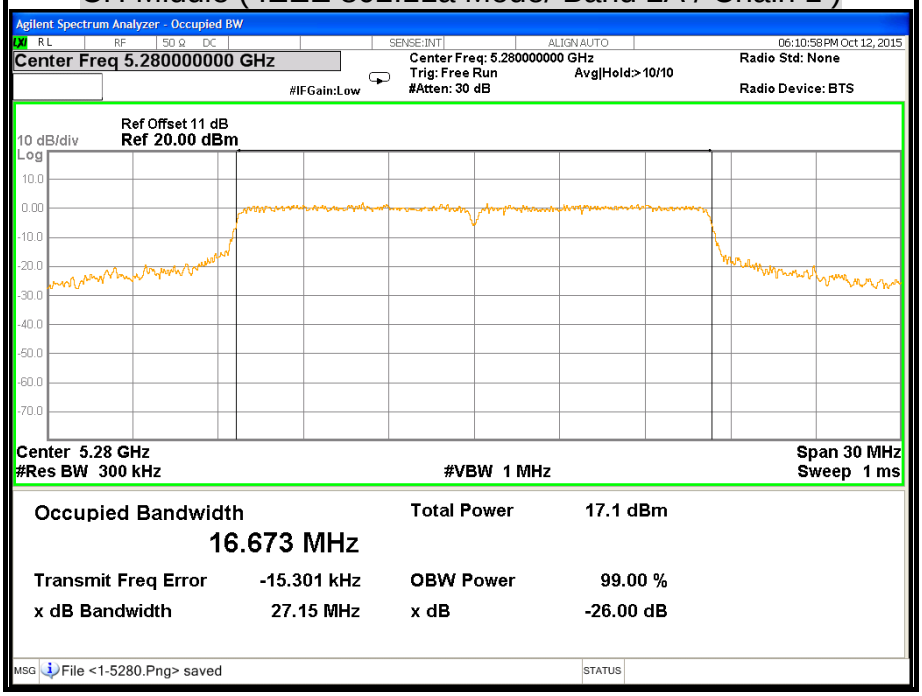
CH Low ( IEEE 802.11a Mode/ Band 2A / Chain 1)




CH Middle ( IEEE 802.11a Mode/ Band 2A / Chain 1 )





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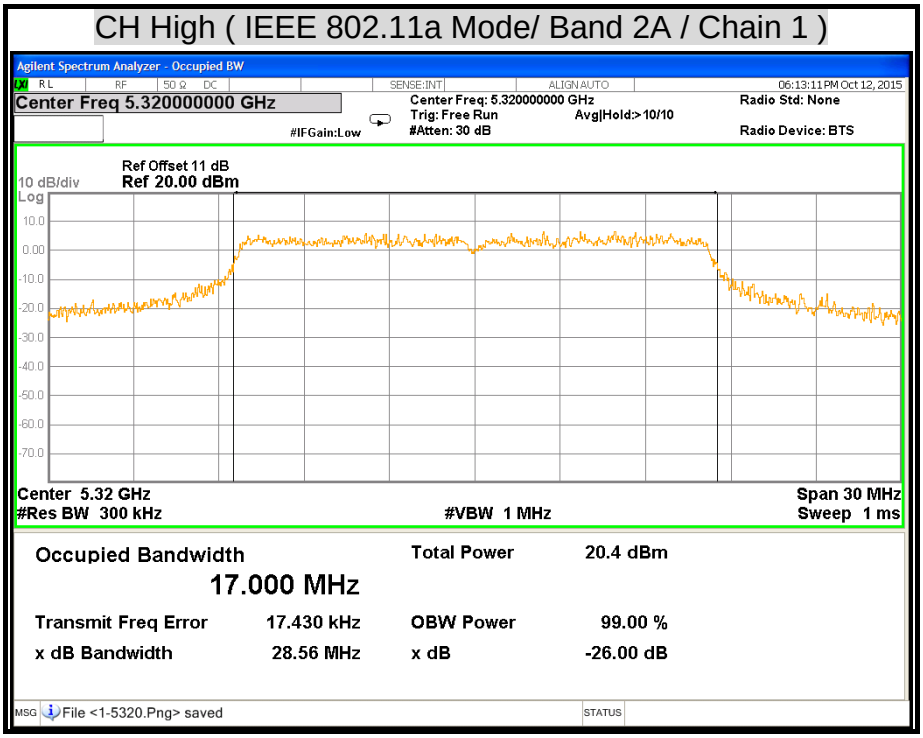
CH High ( IEEE 802.11a Mode/ Band 2A / Chain 1 )



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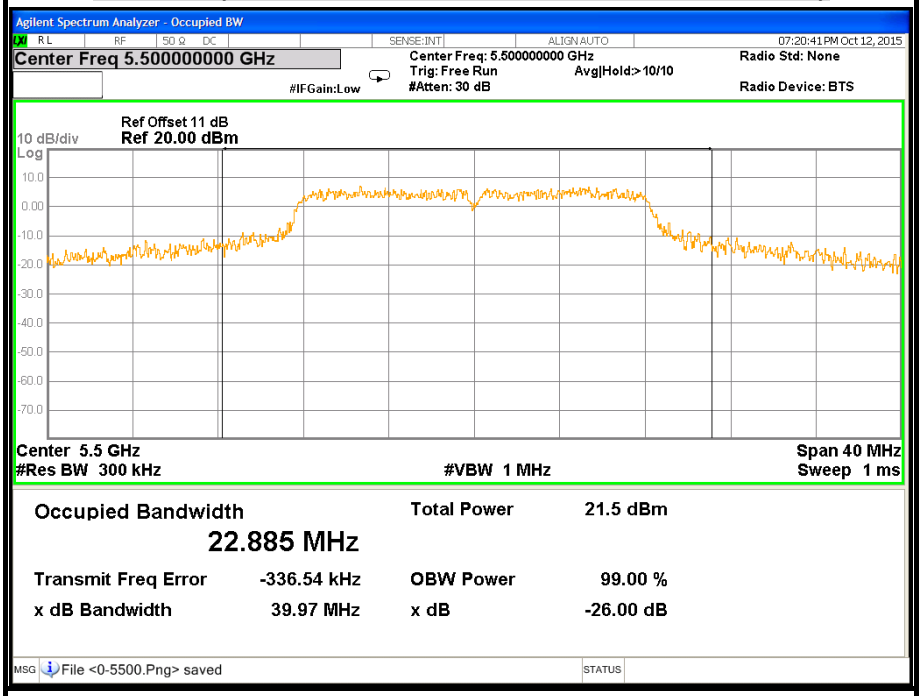
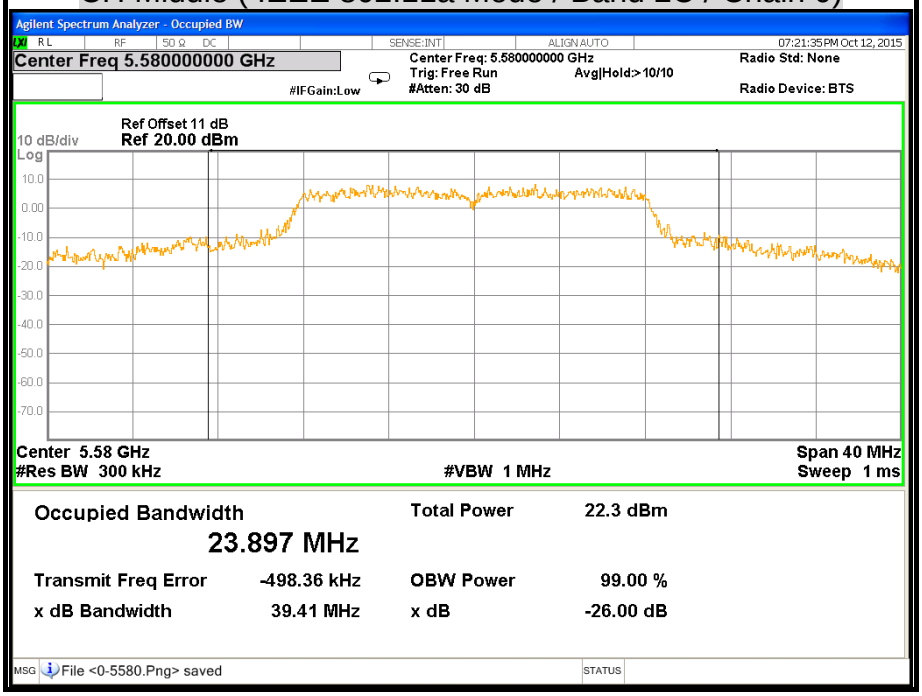
CH Low ( IEEE 802.11a Mode / Band 2C / Chain 0 )




CH Middle ( IEEE 802.11a Mode / Band 2C / Chain 0)





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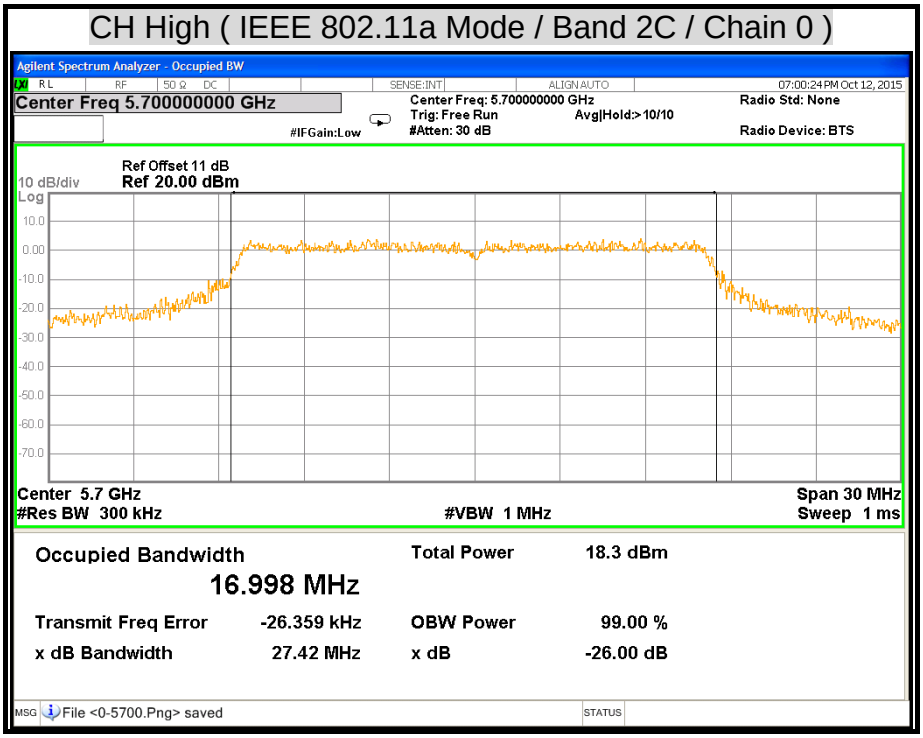
CH High ( IEEE 802.11a Mode / Band 2C / Chain 0 )



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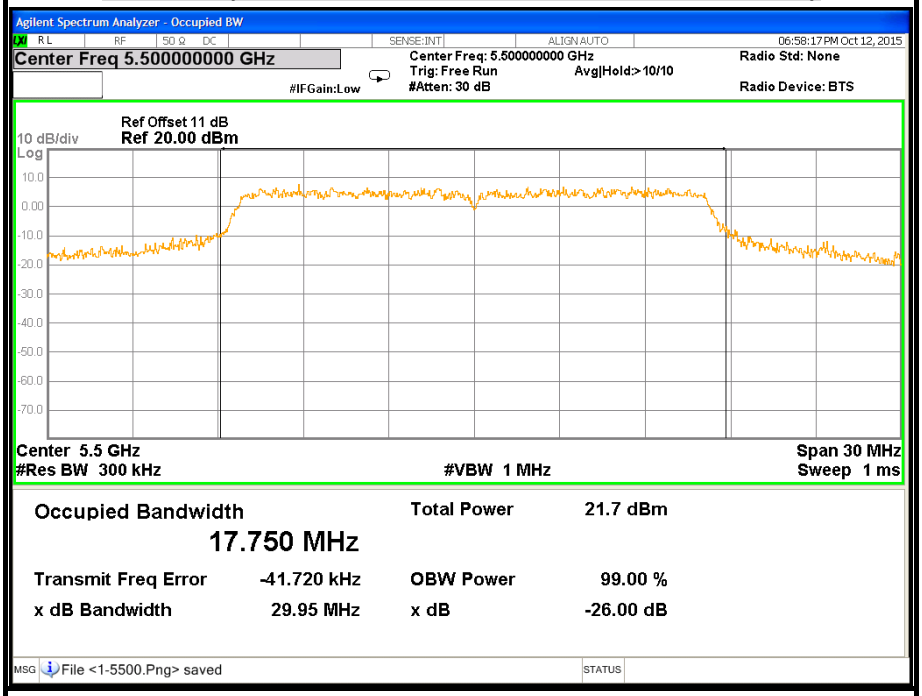
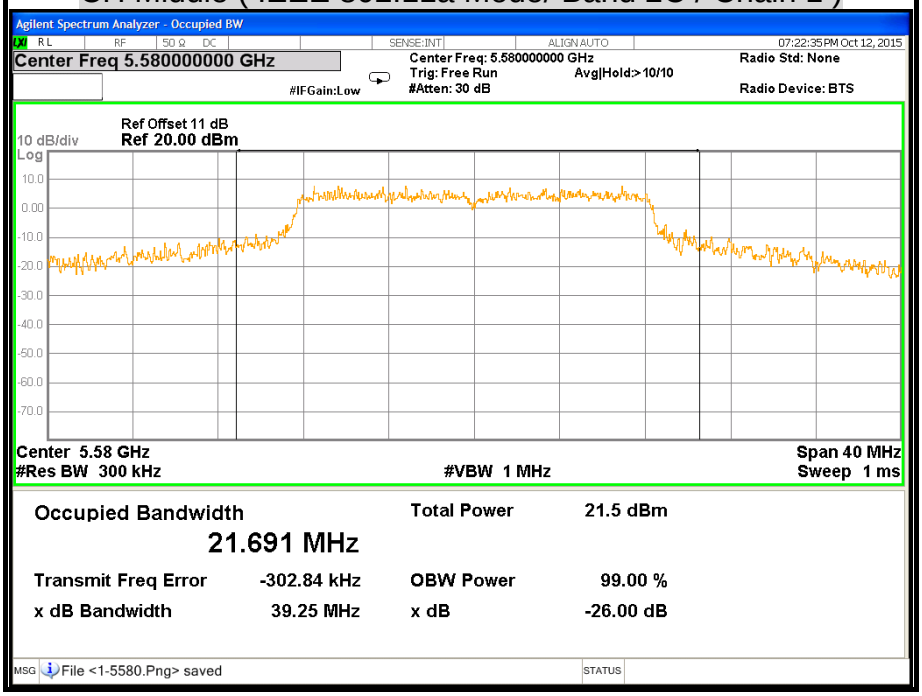
CH Low ( IEEE 802.11a Mode/ Band 2C / Chain 1)




CH Middle ( IEEE 802.11a Mode/ Band 2C / Chain 1 )





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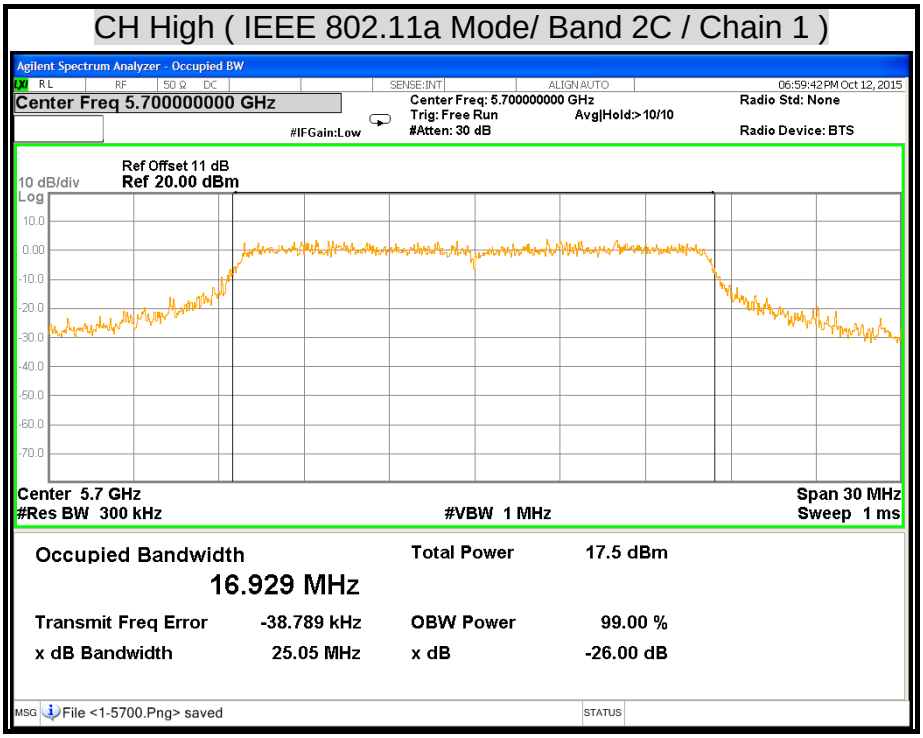
CH High ( IEEE 802.11a Mode/ Band 2C / Chain 1 )



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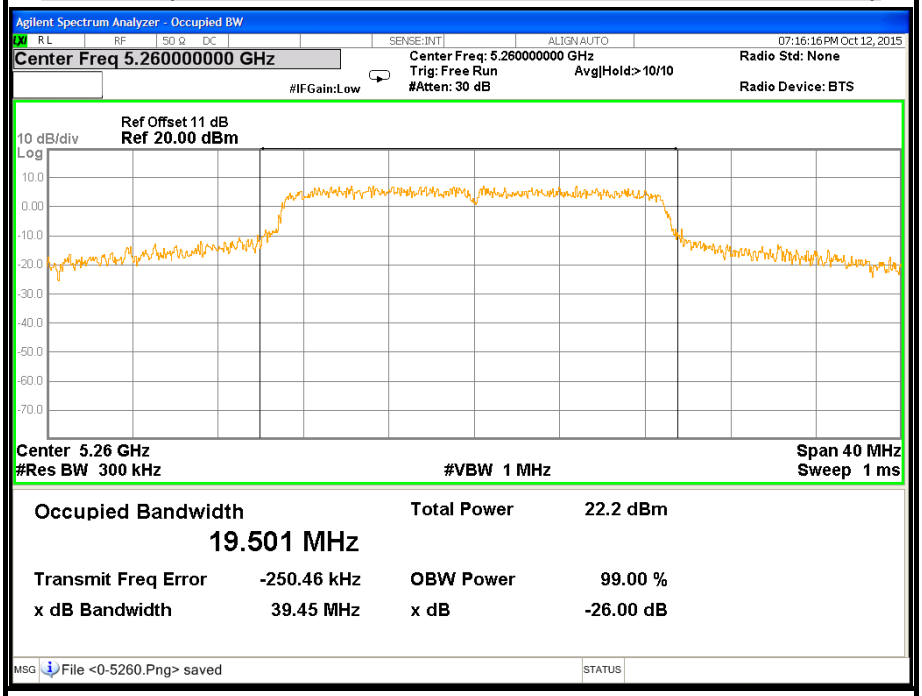
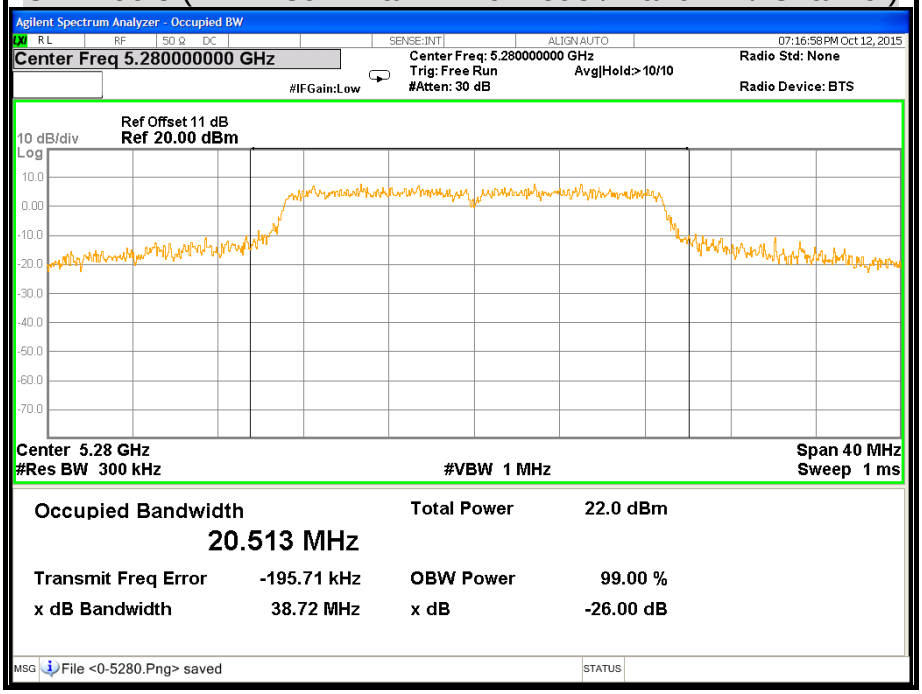
CH Low ( IEEE 802.11an HT20 Mode / Band 2A / Chain 0 )




CH Middle ( IEEE 802.11an HT20 Mode / Band 2A / Chain 0 )





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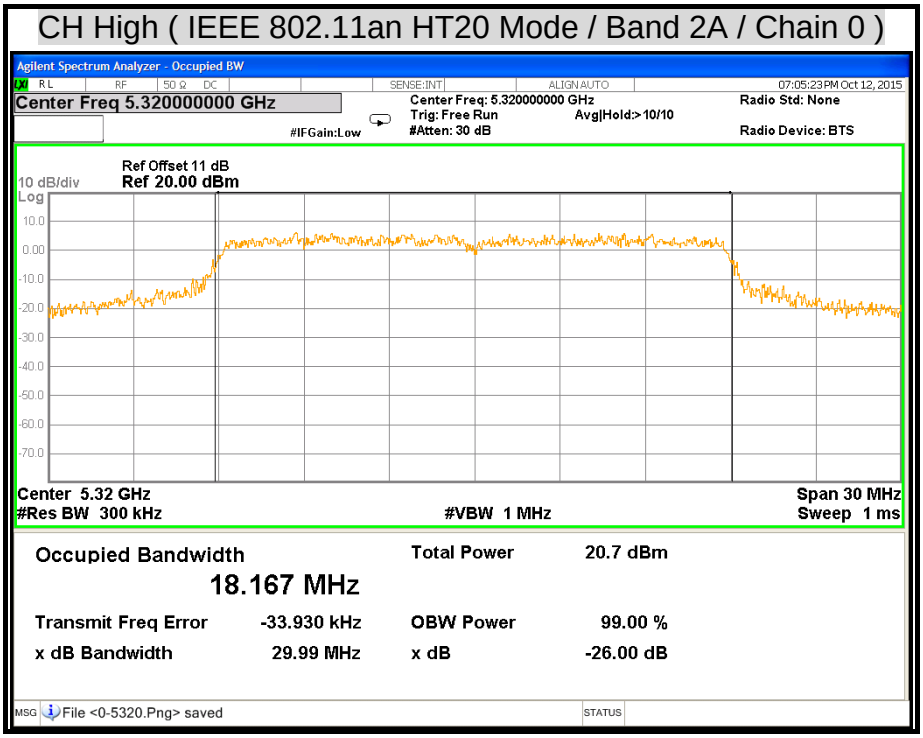
CH High ( IEEE 802.11an HT20 Mode / Band 2A / Chain 0 )



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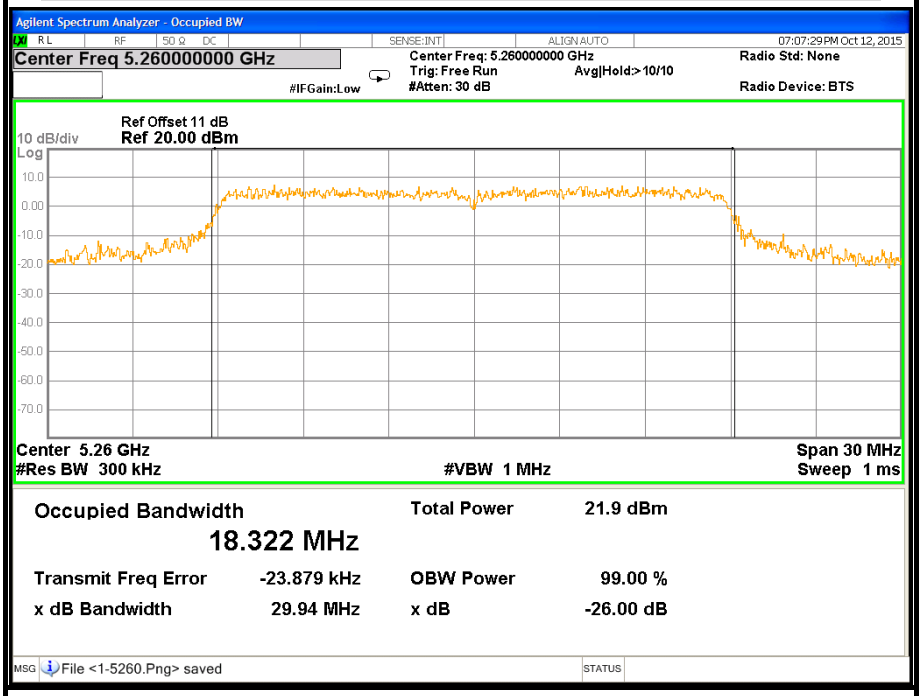
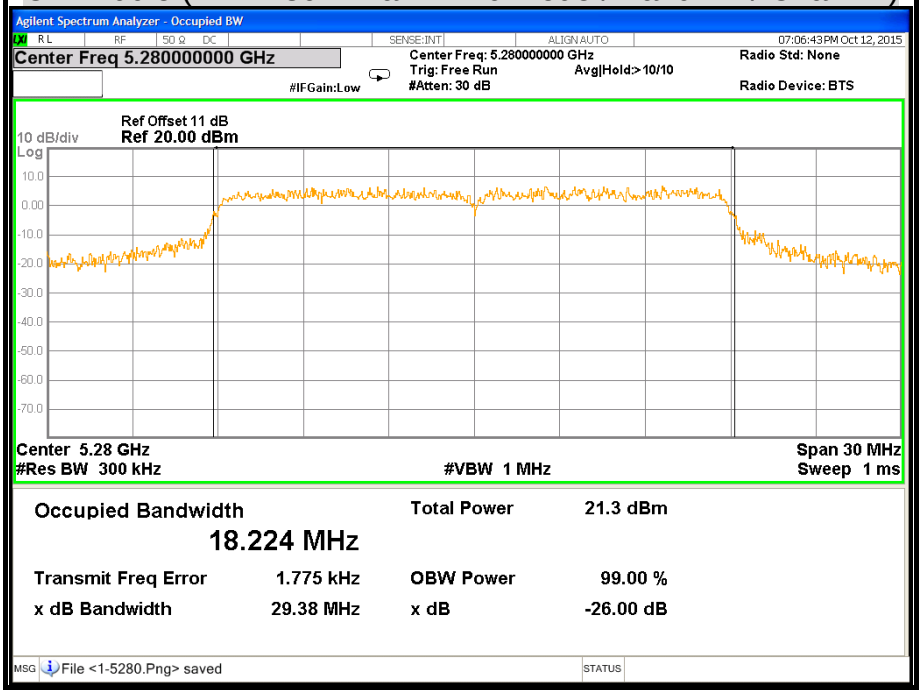
CH Low ( IEEE 802.11an HT20 Mode / Band 2A / Chain 1 )




CH Middle ( IEEE 802.11an HT20 Mode / Band 2A / Chain 1 )





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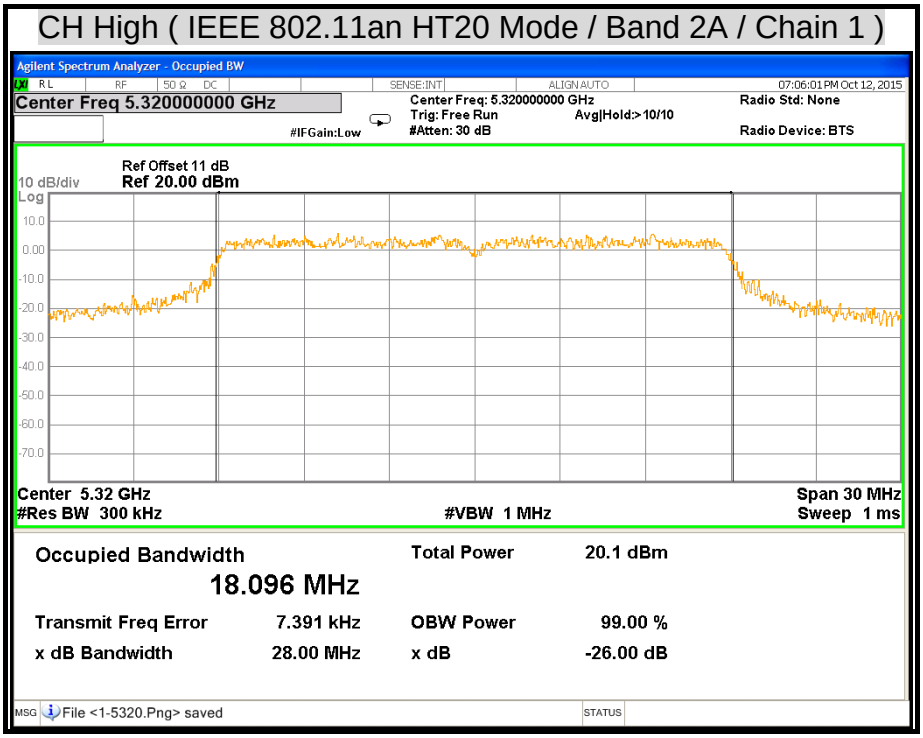
CH High ( IEEE 802.11an HT20 Mode / Band 2A / Chain 1 )



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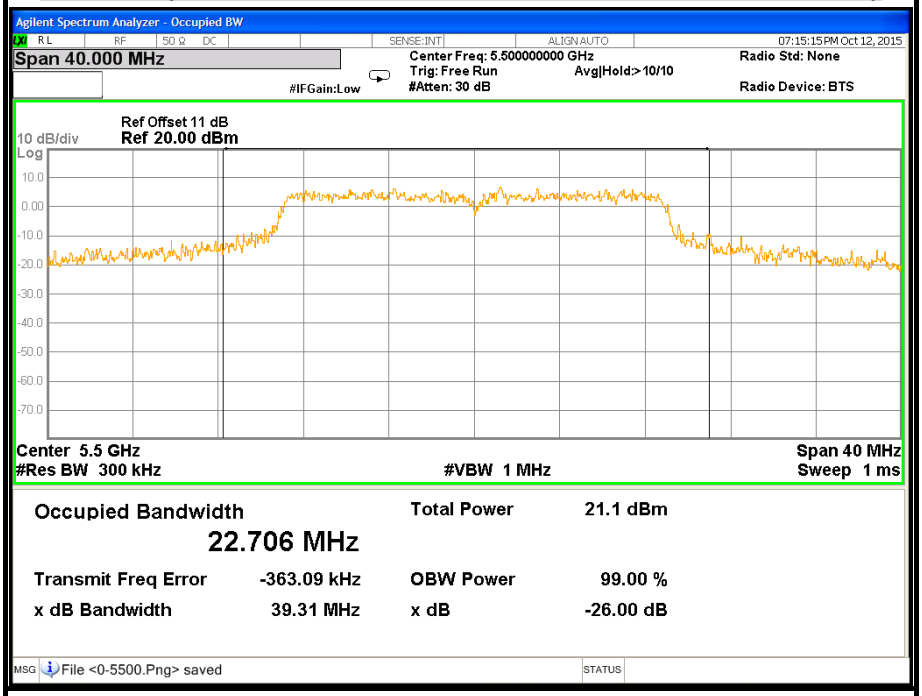
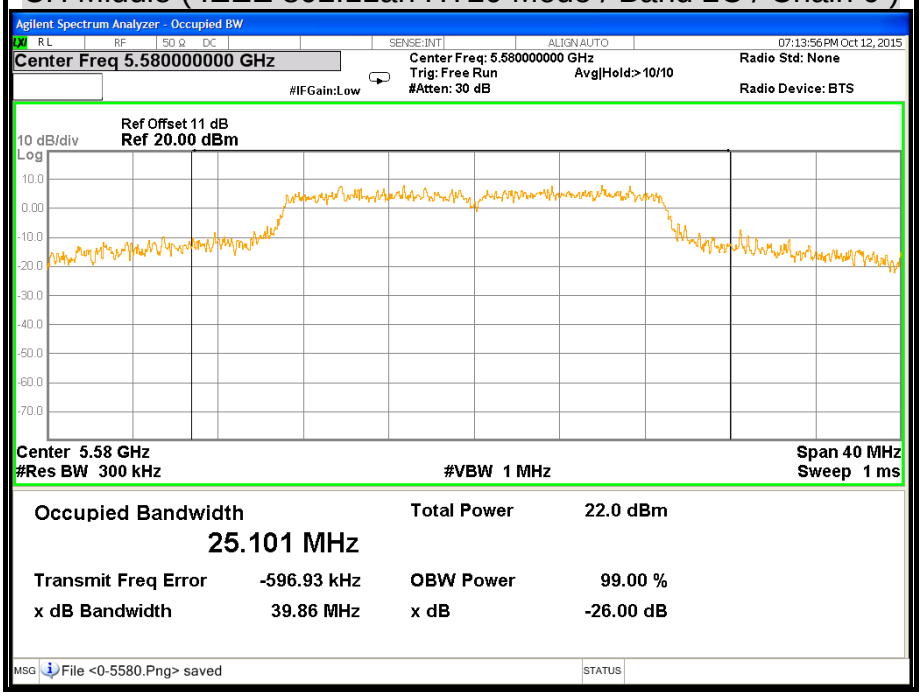
CH Low ( IEEE 802.11an HT20 Mode / Band 2C / Chain 0 )




CH Middle ( IEEE 802.11an HT20 Mode / Band 2C / Chain 0 )





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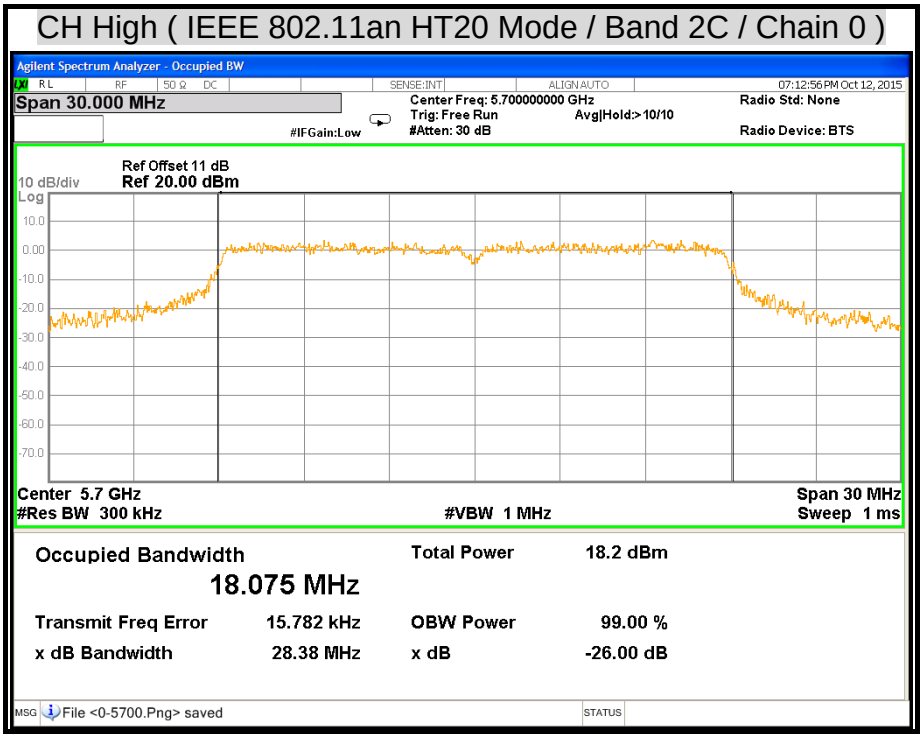
CH High ( IEEE 802.11an HT20 Mode / Band 2C / Chain 0 )



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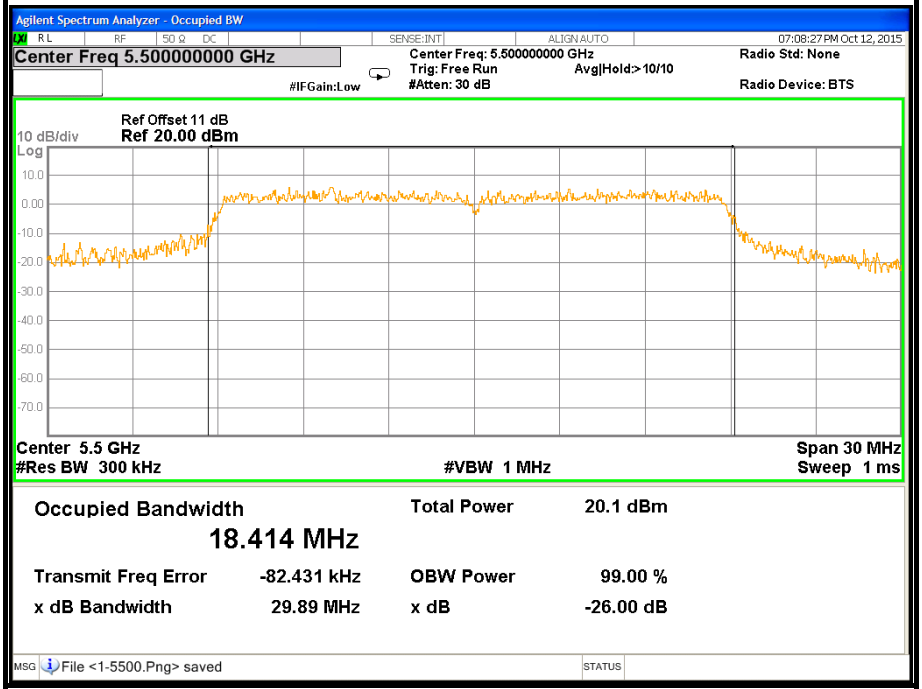
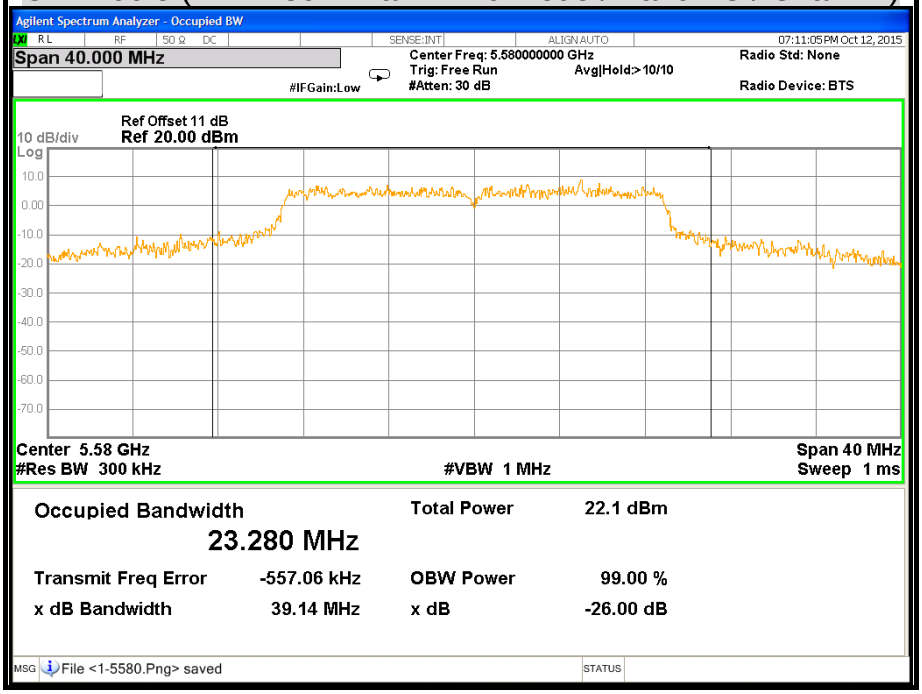
CH Low ( IEEE 802.11an HT20 Mode / Band 2C / Chain 1 )




CH Middle ( IEEE 802.11an HT20 Mode / Band 2C / Chain 1 )





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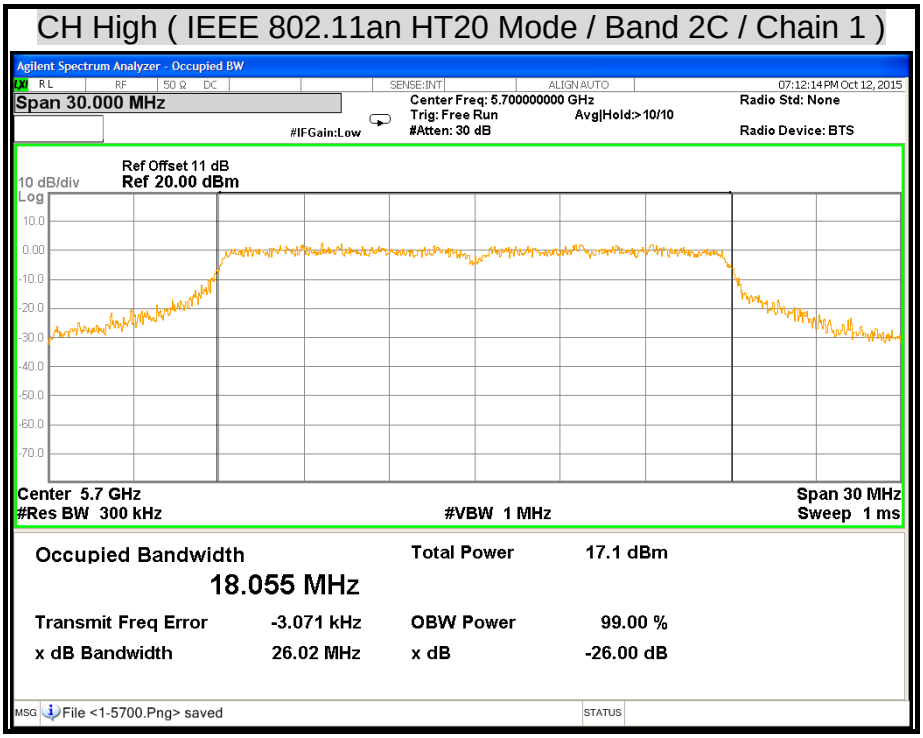
CH High ( IEEE 802.11an HT20 Mode / Band 2C / Chain 1 )



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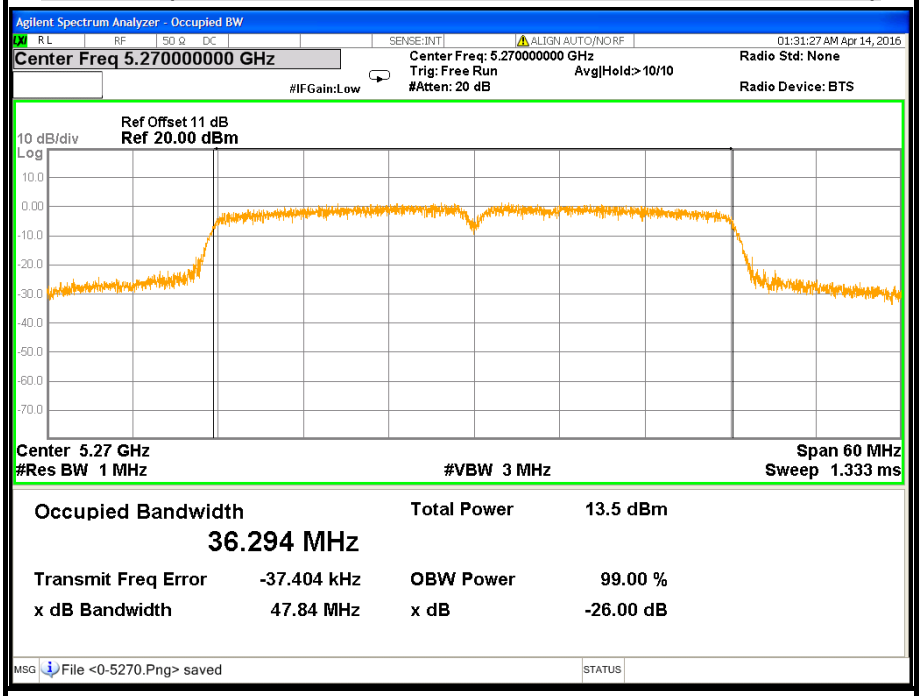
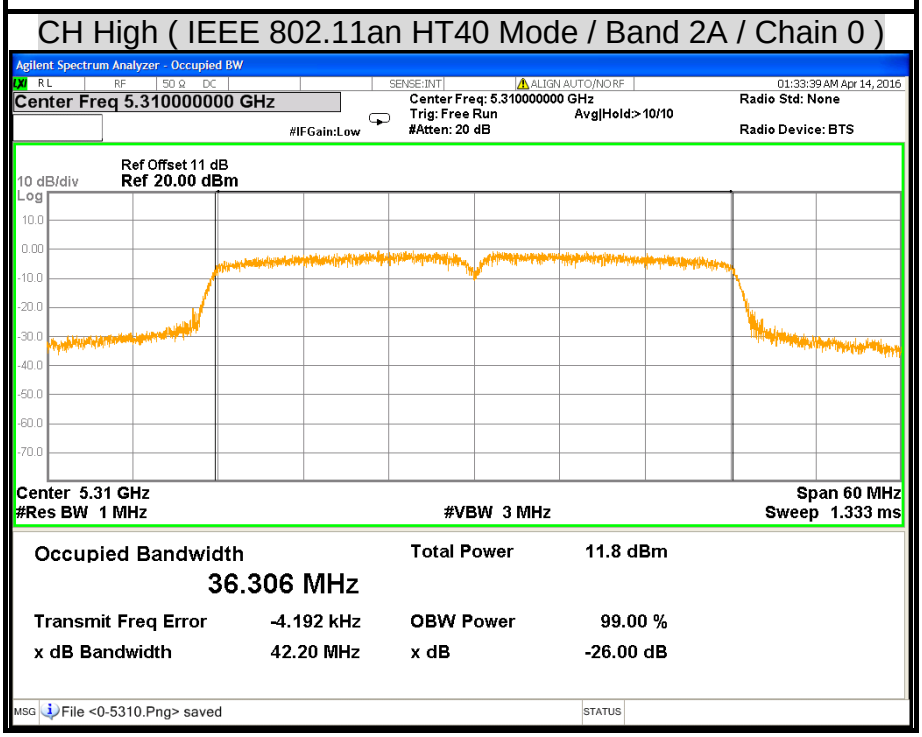
CH Low ( IEEE 802.11an HT40 Mode / Band 2A / Chain 0 )




CH High ( IEEE 802.11an HT40 Mode / Band 2A / Chain 0 )





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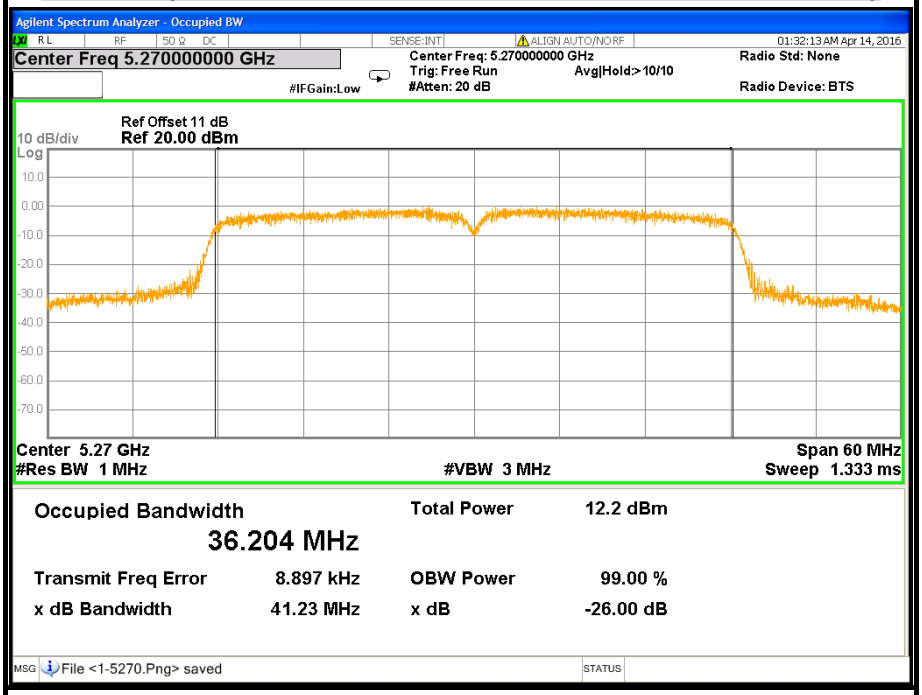
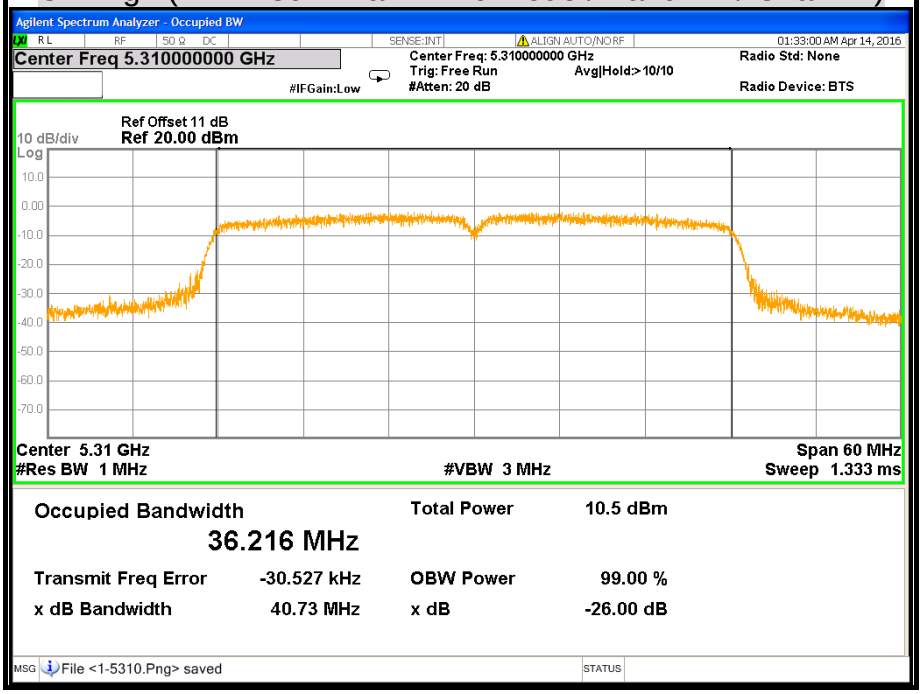
CH Low ( IEEE 802.11an HT40 Mode / Band 2A / Chain 1 )




CH High ( IEEE 802.11an HT40 Mode / Band 2A / Chain 1 )





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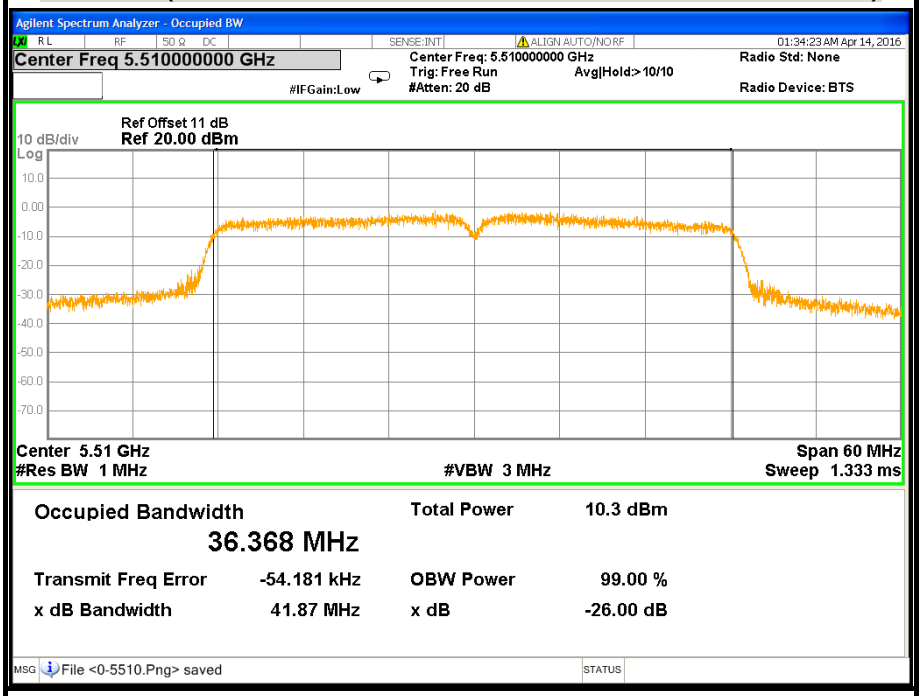
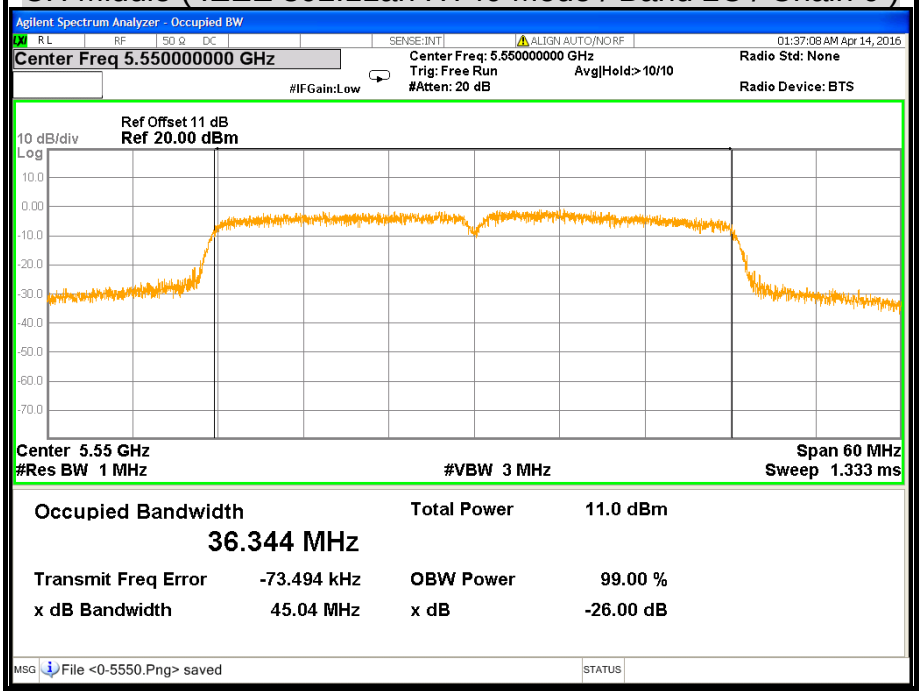
CH Low ( IEEE 802.11an HT40 Mode / Band 2C / Chain 0 )




CH Middle ( IEEE 802.11an HT40 Mode / Band 2C / Chain 0 )





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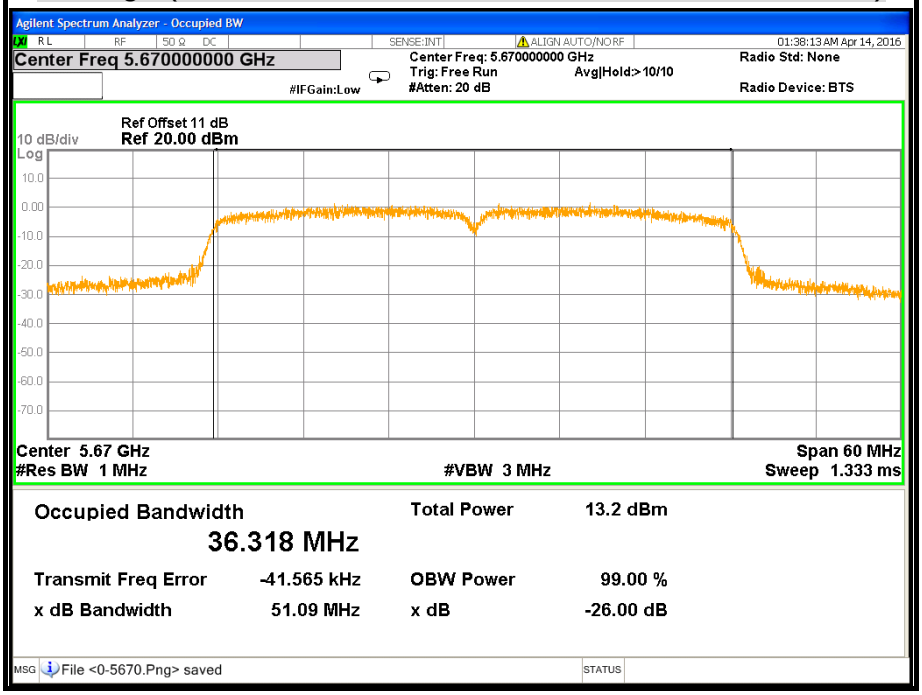
CH High ( IEEE 802.11an HT40 Mode / Band 2C / Chain 0 )





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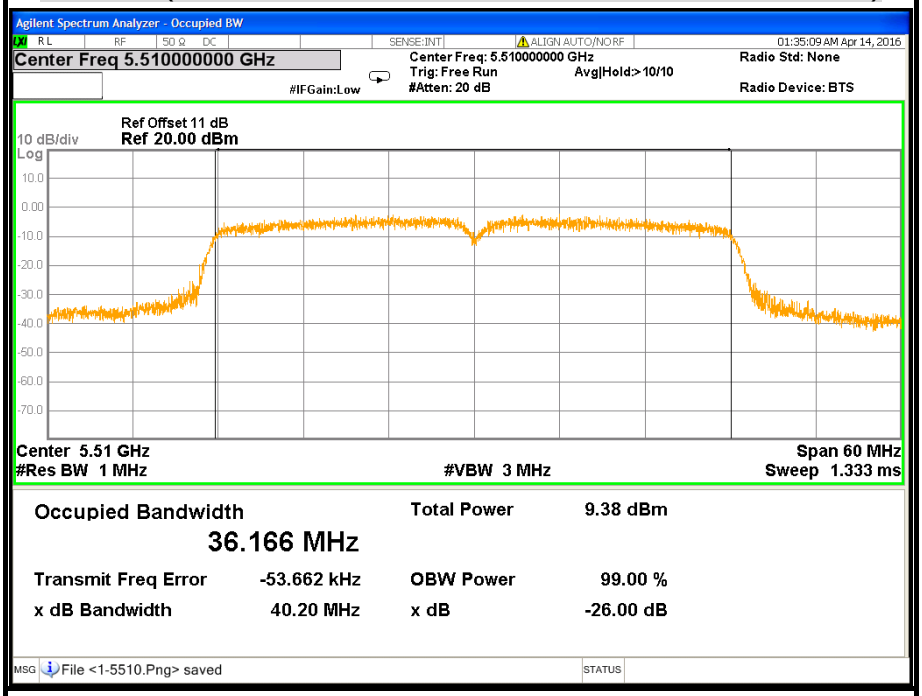
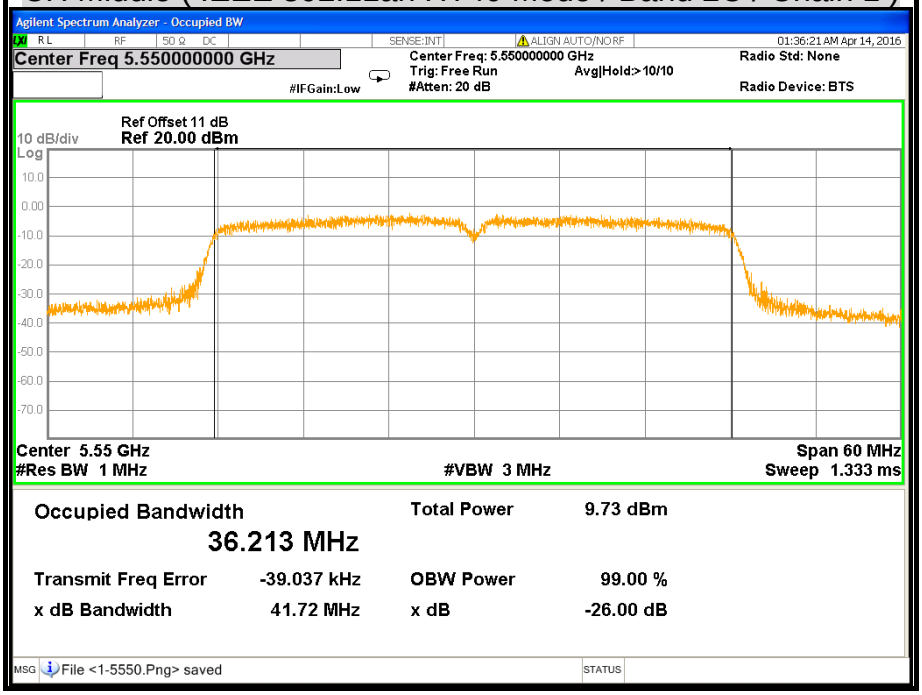
CH Low ( IEEE 802.11an HT40 Mode / Band 2C / Chain 1 )




CH Middle ( IEEE 802.11an HT40 Mode / Band 2C / Chain 1 )





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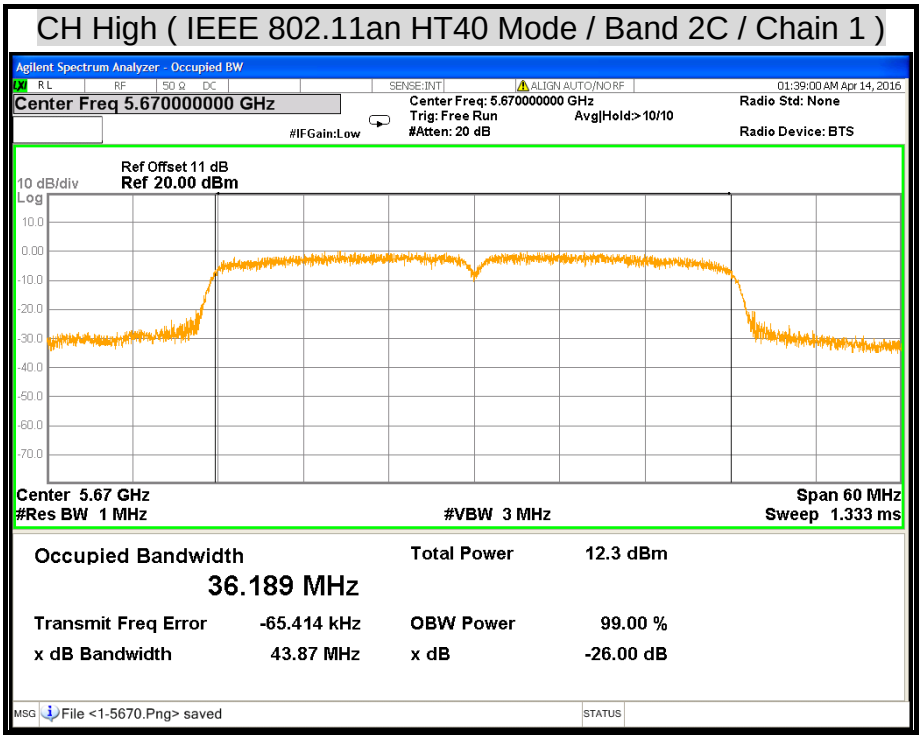
CH High ( IEEE 802.11an HT40 Mode / Band 2C / Chain 1 )



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## 7.2 6dB BANDWIDTH

**LIMITS**

According to§ 15.407 (e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

**TEST EQUIPMENT**

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| EXA Signal Analyzer | Agilent | N9010A | MY52220817 | 03/19/2016 |

***Remark:*** *Each piece of equipment is scheduled for calibration once a year.*

**TEST SETUP**

**TEST PROCEDURE**

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 100kHz, VBW = 300kHz, Sweep = auto.
4. Mark the peak frequency and –6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.


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## TEST RESULTS

**IEEE 802.11a Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | |
|---|---|---|---|---|
| | | | Chain 0 | Chain 1 |
| Band 3 | Low | 5745 | 16.4000 | 16.4300 |
| | Middle | 5785 | 16.4000 | 16.4100 |
| | High | 5825 | 16.4600 | 16.3800 |

**IEEE 802.11an HT20 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | |
|---|---|---|---|---|
| | | | Chain 0 | Chain 1 |
| Band 3 | Low | 5745 | 17.7200 | 17.6900 |
| | Middle | 5785 | 17.6300 | 17.6800 |
| | High | 5825 | 17.5900 | 17.6100 |

**IEEE 802.11an HT40 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | |
|---|---|---|---|---|
| | | | Chain 0 | Chain 1 |
| Band 3 | Low | 5755 | 35.8900 | 36.0900 |
| | High | 5795 | 35.9500 | 36.0100 |


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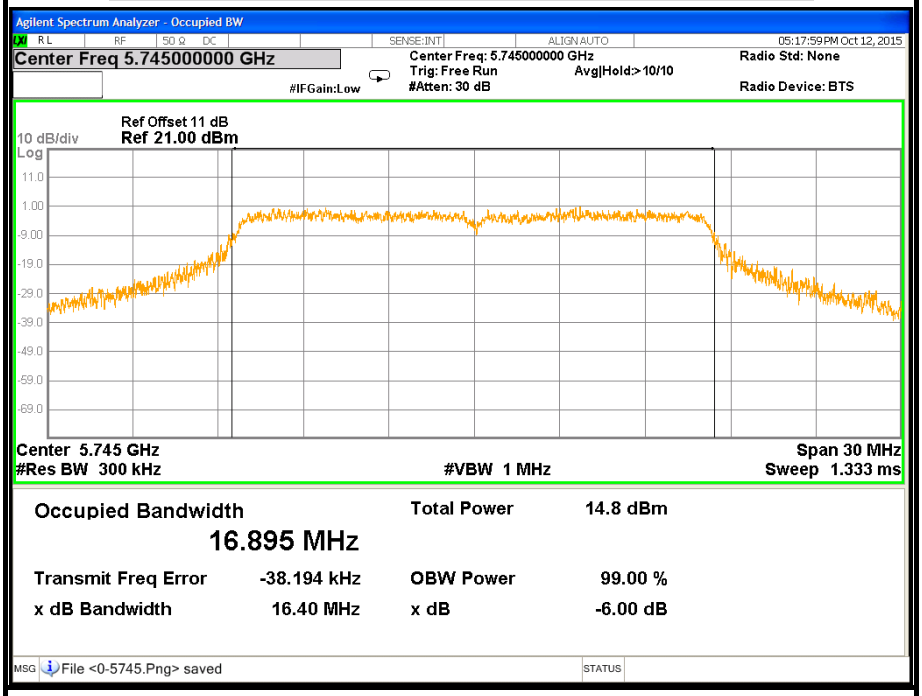
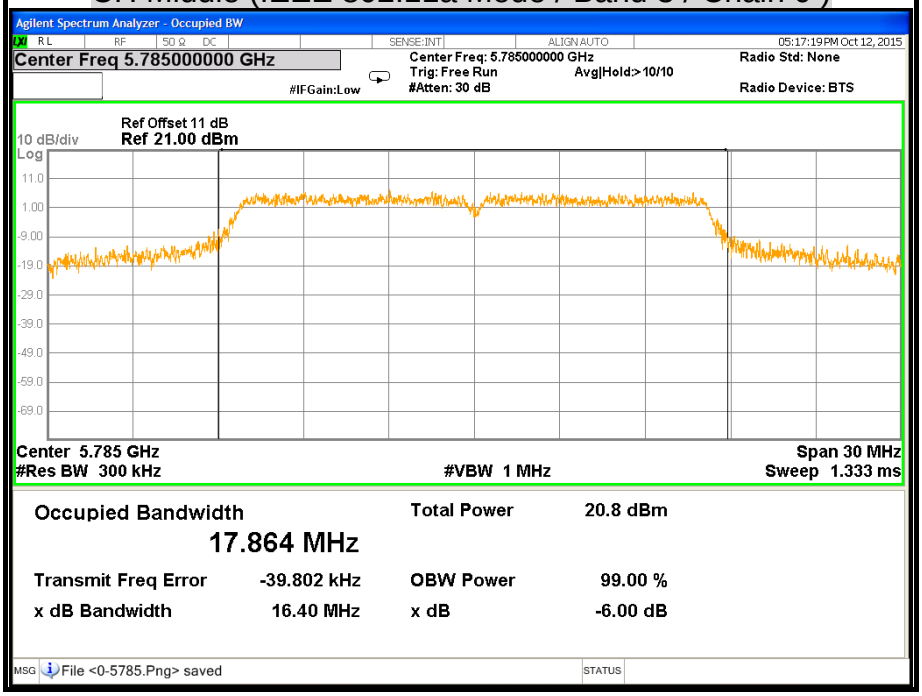
## 6dB BANDWIDTH

CH Low (IEEE 802.11a Mode / Band 3 / Chain 0 )




CH Middle (IEEE 802.11a Mode / Band 3 / Chain 0 )





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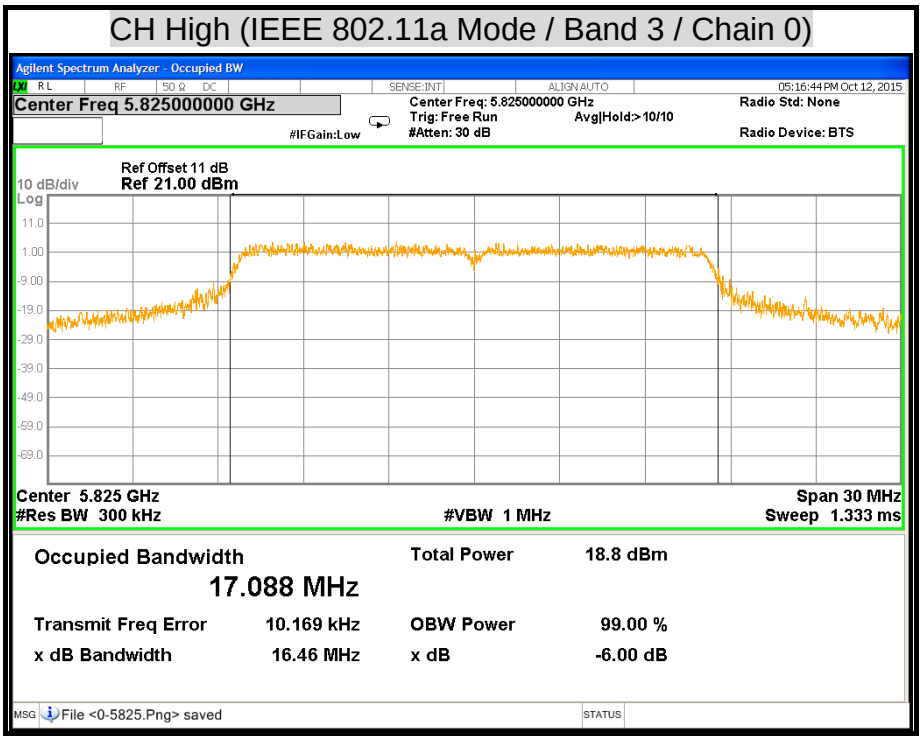
CH High (IEEE 802.11a Mode / Band 3 / Chain 0)



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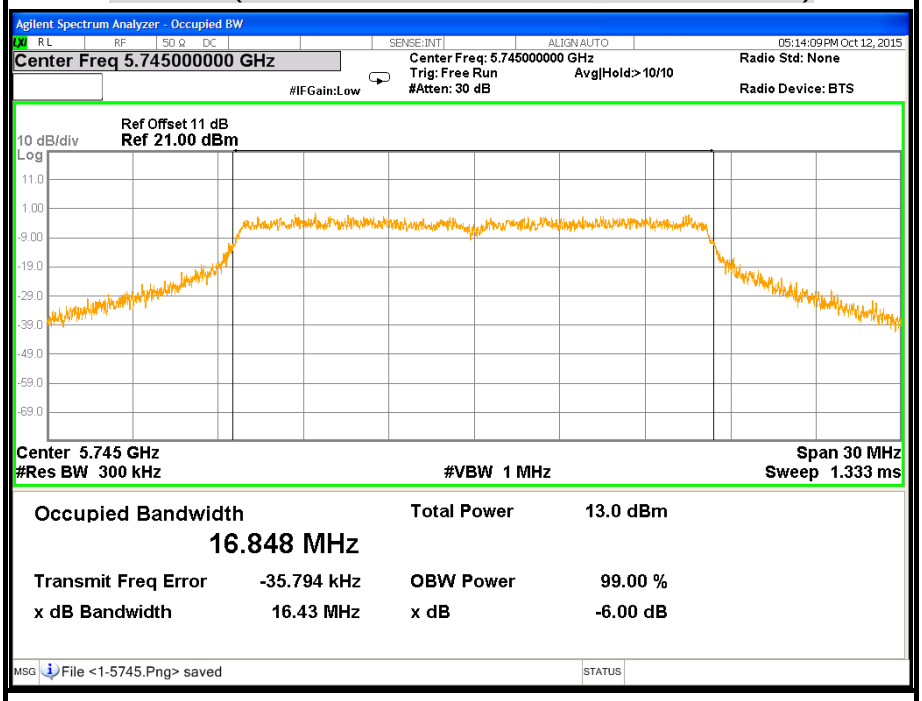
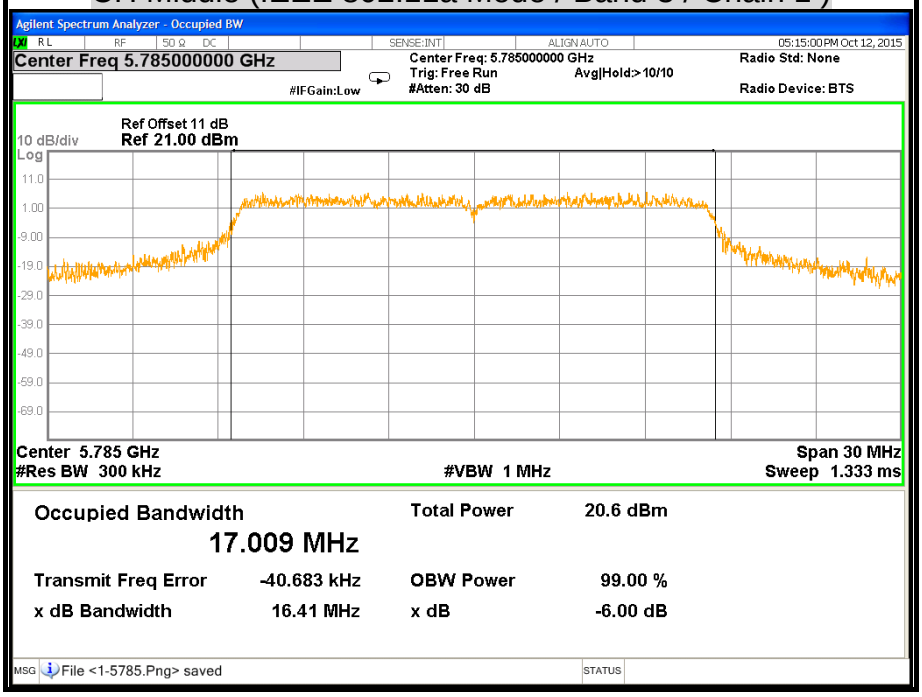
CH Low (IEEE 802.11a Mode / Band 3 / Chain 1 )




CH Middle (IEEE 802.11a Mode / Band 3 / Chain 1 )





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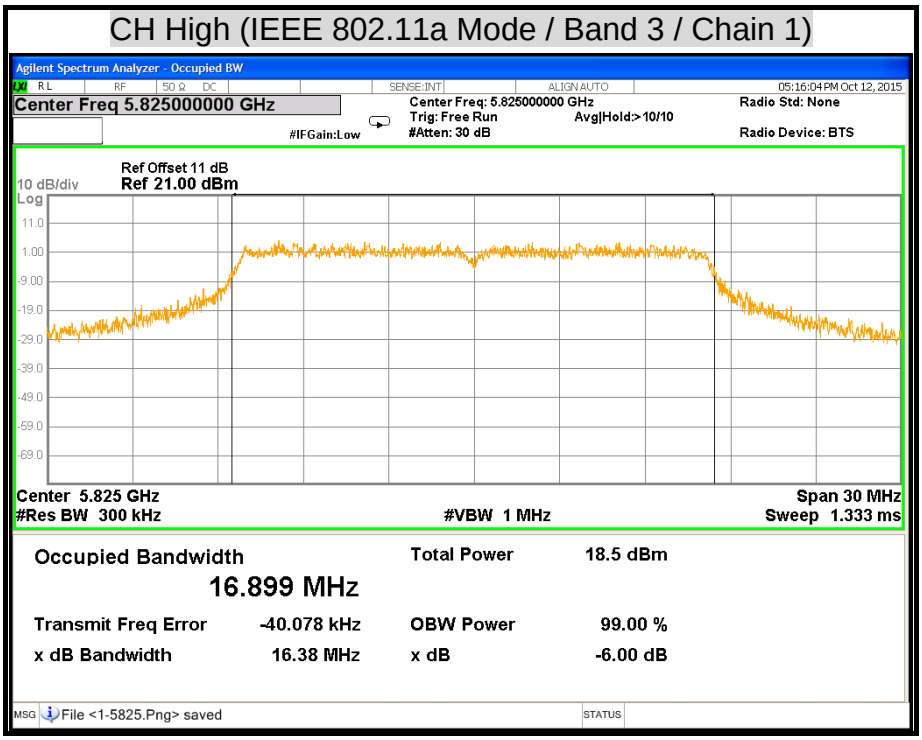
CH High (IEEE 802.11a Mode / Band 3 / Chain 1)



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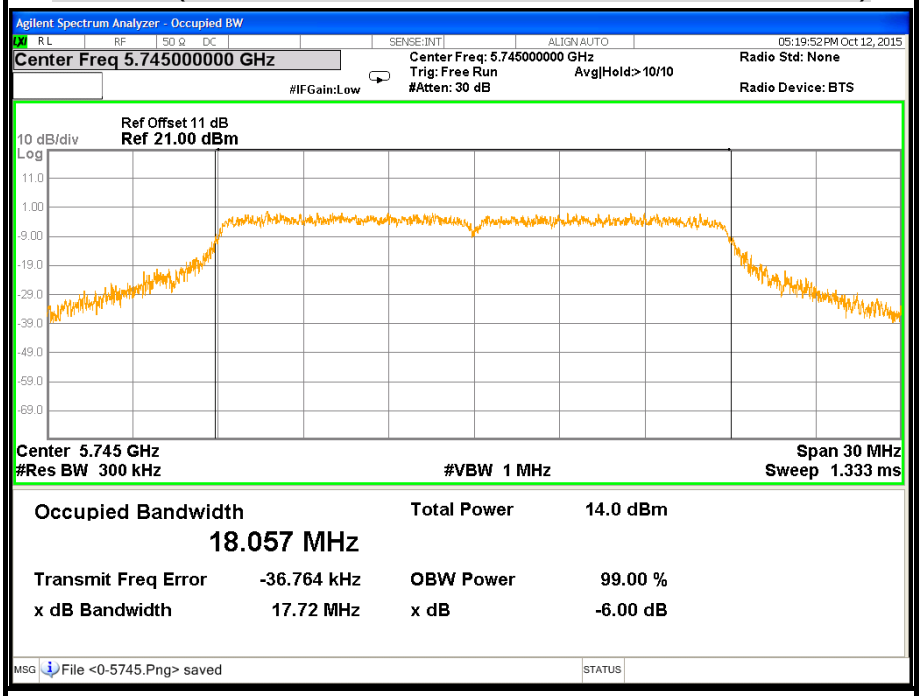
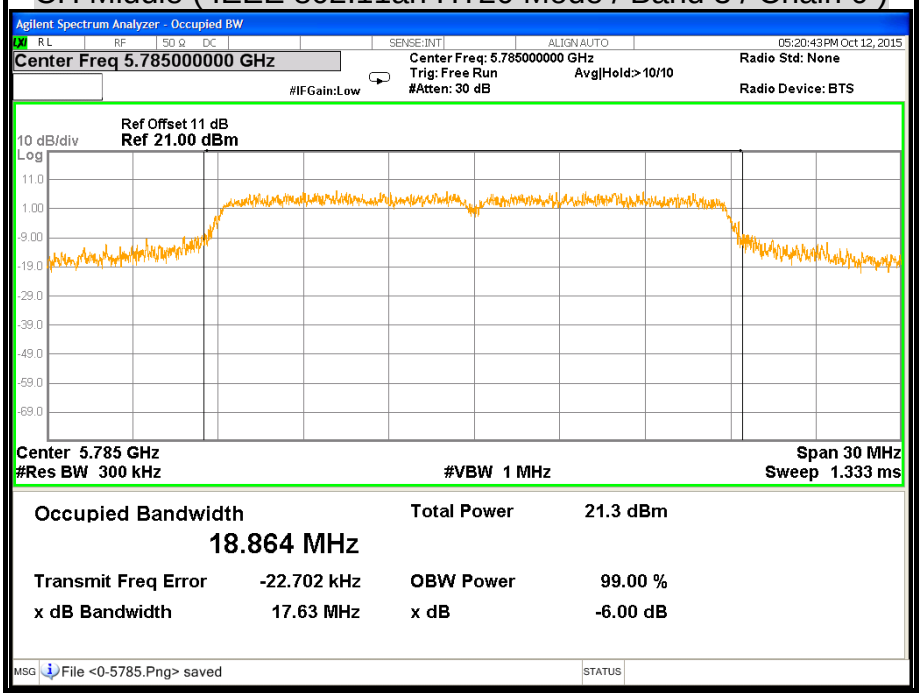
CH Low ( IEEE 802.11an HT20 Mode / Band 3 / Chain 0 )




CH Middle ( IEEE 802.11an HT20 Mode / Band 3 / Chain 0 )





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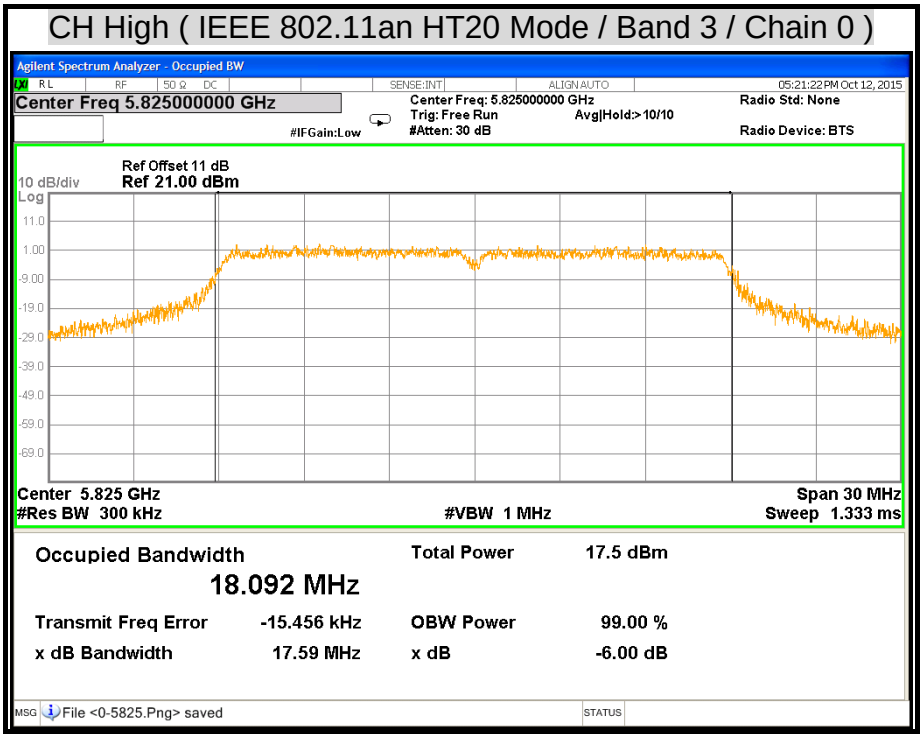
CH High ( IEEE 802.11an HT20 Mode / Band 3 / Chain 0 )



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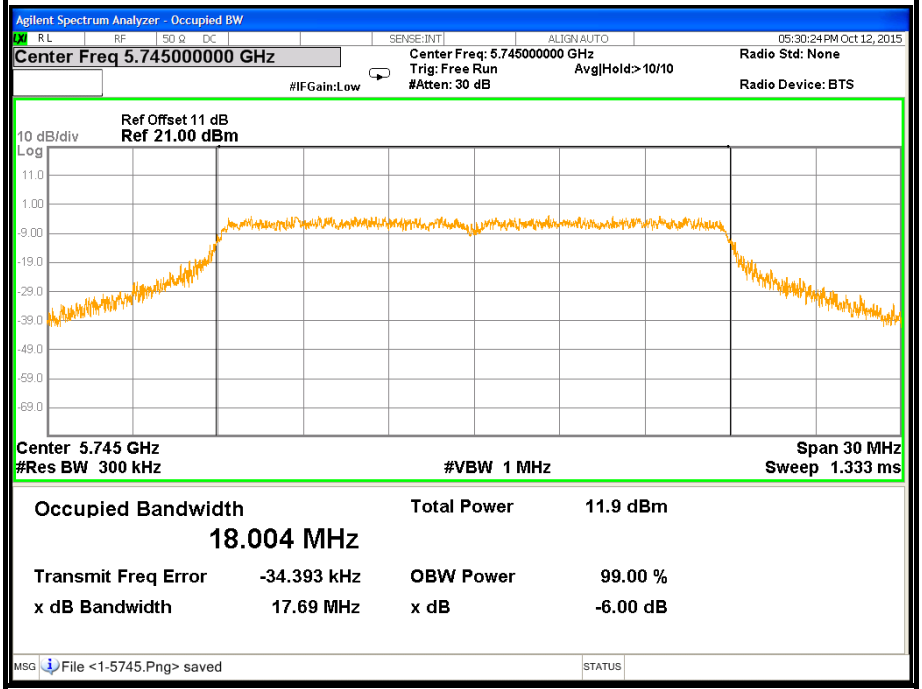
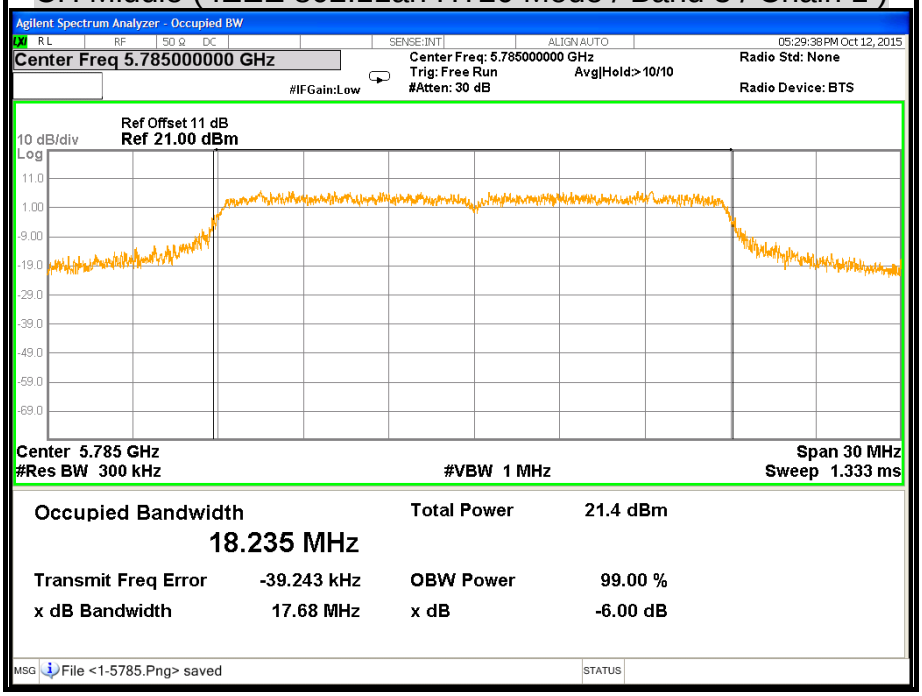
CH Low ( IEEE 802.11an HT20 Mode / Band 3 / Chain 1 )




CH Middle ( IEEE 802.11an HT20 Mode / Band 3 / Chain 1 )





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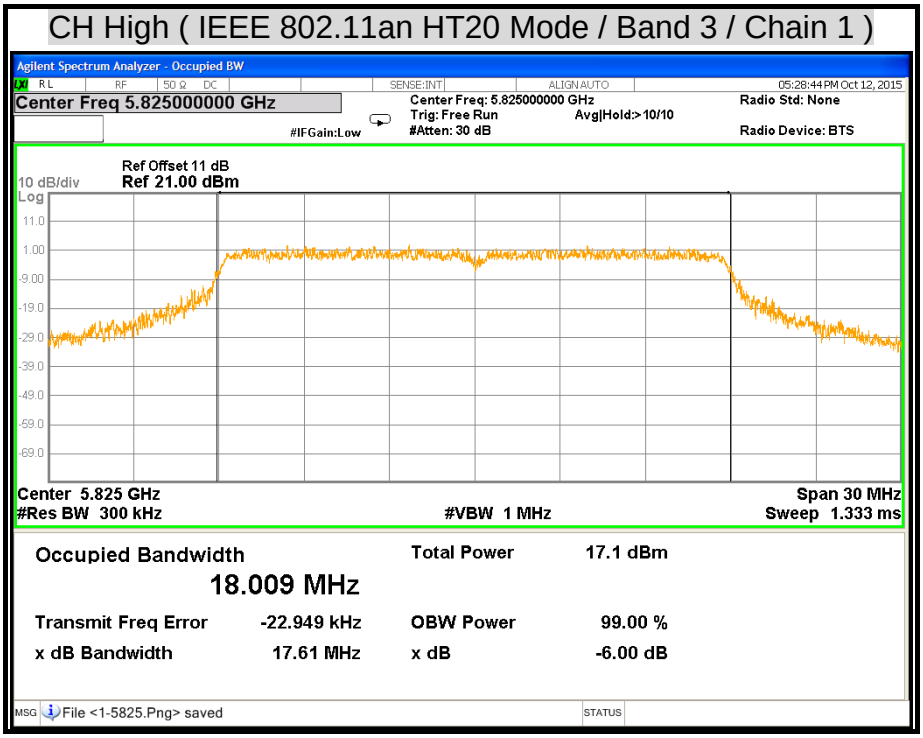
CH High ( IEEE 802.11an HT20 Mode / Band 3 / Chain 1 )



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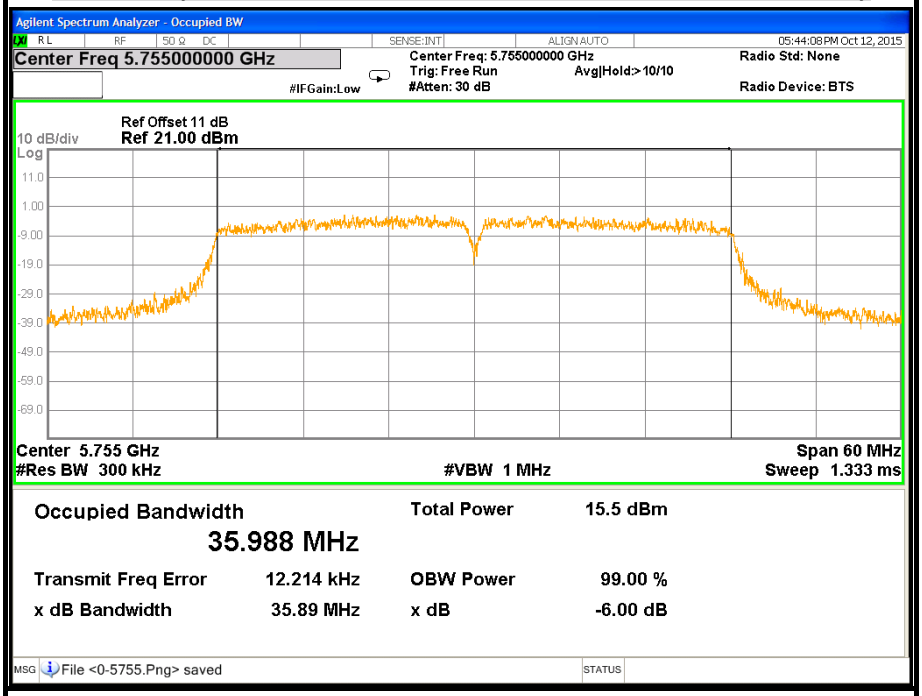
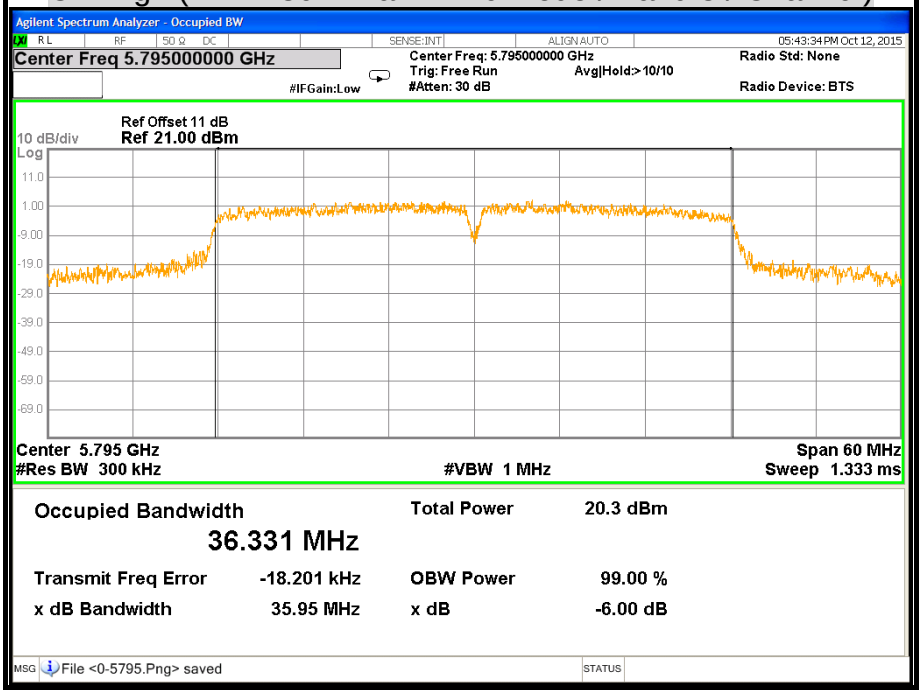
CH Low ( IEEE 802.11an HT40 Mode / Band 3 / Chain 0 )




CH High ( IEEE 802.11an HT40 Mode / Band 3 / Chain 0 )





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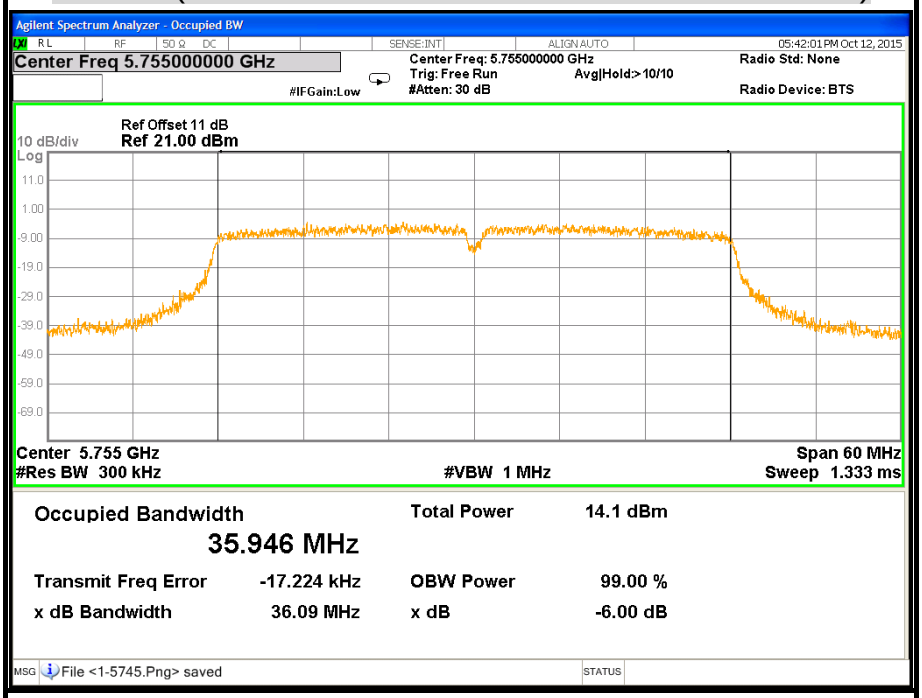
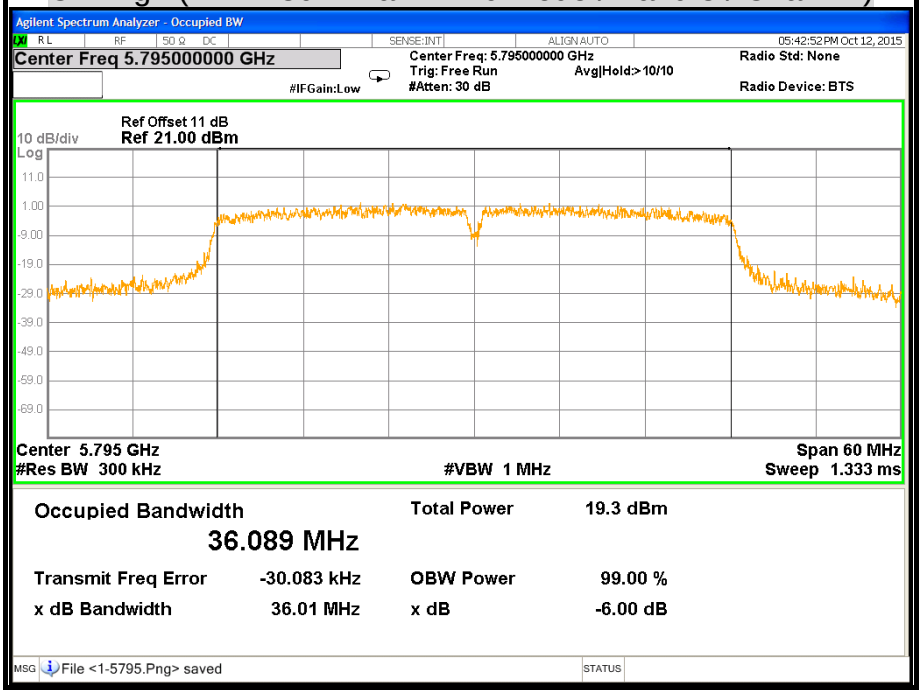
CH Low ( IEEE 802.11an HT40 Mode / Band 3 / Chain 1 )




CH High ( IEEE 802.11an HT40 Mode / Band 3 / Chain 1 )





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## 7.2 MAXIMUM CONDUCTED OUTPUT POWER

**LIMITS**

§ 15.407(a)

(1) For the band 5.15-5.25 GHz,

(I) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(II)For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6dBi 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 6dBi.

(III) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.



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(IV) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

§ KDB 662911 : For power measurements on IEEE 802.11 devices

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any $N_{ANT}$ ;

Array Gain = 5 log($N_{ANT}/N_{SS}$) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.



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## TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| Power Meter | ANRITSU | ML2495A | 1149001 | 12/11/2015 |
| Power Sensor | ANRITSU | MA2411B | 1126148 | 12/11/2015 |

***Remark:*** *Each piece of equipment is scheduled for calibration once a year.*

## TEST SETUP

## TEST PROCEDURE

The transmitter output is connected to the power meter. The power meter is set to the power detection.


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## TEST RESULTS

The power shall not exceeded the limit as follows:

### IEEE 802.11a Mode / UNII Band 2A (Two TX)

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (B) (MHz) | | 10 Log B (dB) | | 11dBm + 10 Log B (dBm) | | Maximum Conducted Output Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low | 5260 | 29.42 | 27.00 | 14.69 | 14.31 | 25.69 | 25.31 | 24 |
| Middle | 5280 | 37.30 | 27.15 | 15.72 | 14.34 | 26.72 | 25.34 | 24 |
| High | 5320 | 29.93 | 28.56 | 14.76 | 14.56 | 25.76 | 25.56 | 24 |

### IEEE 802.11a Mode / UNII Band 2C (Two TX)

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (B) (MHz) | | 10 Log B (dB) | | 11dBm + 10 Log B (dBm) | | Maximum Conducted Output Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low | 5500 | 39.97 | 29.95 | 16.02 | 14.76 | 27.02 | 25.76 | 24 |
| Middle | 5580 | 39.41 | 39.25 | 15.96 | 15.94 | 26.96 | 26.94 | 24 |
| High | 5700 | 27.42 | 25.05 | 14.38 | 13.99 | 25.38 | 24.99 | 24 |

### IEEE 802.11an HT20 Mode/ UNII Band 2A (Two TX)

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (B) (MHz) | | 10 Log B (dB) | | 11dBm + 10 Log B (dBm) | | Maximum Conducted Output Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low | 5260 | 39.45 | 29.94 | 15.96 | 14.76 | 26.96 | 25.76 | 24 |
| Middle | 5280 | 38.72 | 29.38 | 15.88 | 14.68 | 26.88 | 25.68 | 24 |
| High | 5320 | 29.99 | 28.00 | 14.77 | 14.47 | 25.77 | 25.47 | 24 |



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**IEEE 802.11an HT20 Mode/ UNII Band 2C (Two TX)**

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (B) (MHz) | | 10 Log B (dB) | | 11dBm + 10 Log B (dBm) | | Maximum Conducted Output Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low | 5500 | 39.31 | 29.89 | 15.95 | 14.76 | 26.95 | 25.76 | 24 |
| Middle | 5580 | 39.86 | 39.14 | 16.01 | 15.93 | 27.01 | 26.93 | 24 |
| High | 5700 | 28.38 | 26.02 | 14.53 | 14.15 | 25.53 | 25.15 | 24 |

**IEEE 802.11an HT40 Mode/ UNII Band 2A (Two TX)**

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (B) (MHz) | | 10 Log B (dB) | | 11dBm + 10 Log B (dBm) | | Maximum Conducted Output Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low | 5270 | 79.18 | 78.73 | 18.99 | 18.96 | 29.99 | 29.96 | 24 |
| High | 5310 | 42.82 | 40.12 | 16.32 | 16.03 | 27.32 | 27.03 | 24 |

**IEEE 802.11an HT40 Mode/ UNII Band 2C (Two TX)**

| Channel | Channel Frequency (MHz) | 26dB Bandwidth (B) (MHz) | | 10 Log B (dB) | | 11dBm + 10 Log B (dBm) | | Maximum Conducted Output Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| Low | 5510 | 54.51 | 43.63 | 17.36 | 16.40 | 28.36 | 27.40 | 24 |
| Middle | 5550 | 79.97 | 78.34 | 19.03 | 18.94 | 30.03 | 29.94 | 24 |
| High | 5670 | 59.68 | 57.67 | 17.76 | 17.61 | 28.76 | 28.61 | 24 |


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**IEEE 802.11a Mode (Two TX)**

| UNII Band | Channel | Channel Frequency (MHz) | Power (dBm) | | Power Total | | Power Limit | | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | (dBm) | (W) | (dBm) | (W) | |
| Band 1 | Low | 5180 | 13.31 | 12.58 | 15.97 | 0.0395 | 22.23 | 0.167 | Pass |
| | Middle | 5220 | 13.37 | 12.92 | 16.16 | 0.0413 | 22.23 | 0.167 | Pass |
| | High | 5240 | 13.17 | 12.75 | 15.98 | 0.0396 | 22.23 | 0.167 | Pass |
| Band 2A | Low | 5260 | 13.45 | 13.04 | 16.26 | 0.0423 | 22.23 | 0.167 | Pass |
| | Middle | 5280 | 13.46 | 13.02 | 16.26 | 0.0423 | 22.23 | 0.167 | Pass |
| | High | 5320 | 13.46 | 13.01 | 16.25 | 0.0422 | 22.23 | 0.167 | Pass |
| Band 2C | Low | 5500 | 13.39 | 12.08 | 15.79 | 0.0379 | 22.23 | 0.167 | Pass |
| | Middle | 5580 | 13.34 | 12.91 | 16.14 | 0.0411 | 22.23 | 0.167 | Pass |
| | High | 5700 | 13.42 | 12.67 | 16.07 | 0.0405 | 22.23 | 0.167 | Pass |
| Band 3 | Low | 5745 | 9.38 | 8.49 | 11.97 | 0.0157 | 28.23 | 0.665 | Pass |
| | Middle | 5785 | 12.97 | 12.17 | 15.60 | 0.0363 | 28.23 | 0.665 | Pass |
| | High | 5825 | 13.36 | 13.15 | 16.27 | 0.0424 | 28.23 | 0.665 | Pass |

***Remark:***

1. *At finial test to get the worst-case emission at 6 Mbps.*
2. *The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*
3. *The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 22.23dBm (for band1/band2A/band 2C) and 28.23dBm (for band 3).*
4. *Total peak power = Chain 0 + Chain 1.*



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**IEEE 802.11an HT20 Mode (Two TX)**

| UNII Band | Channel | Channel Frequency (MHz) | Power (dBm) | | Power Total | | Power Limit | | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | (dBm) | (W) | (dBm) | (W) | |
| Band 1 | Low | 5180 | 13.49 | 12.37 | 15.98 | 0.0396 | 22.23 | 0.167 | Pass |
| | Middle | 5220 | 13.41 | 13.32 | 16.38 | 0.0435 | 22.23 | 0.167 | Pass |
| | High | 5240 | 13.49 | 13.21 | 16.36 | 0.0433 | 22.23 | 0.167 | Pass |
| Band 2A | Low | 5260 | 13.34 | 13.20 | 16.28 | 0.0425 | 22.23 | 0.167 | Pass |
| | Middle | 5280 | 13.29 | 12.77 | 16.05 | 0.0403 | 22.23 | 0.167 | Pass |
| | High | 5320 | 13.25 | 12.73 | 16.01 | 0.0399 | 22.23 | 0.167 | Pass |
| Band 2C | Low | 5500 | 13.34 | 12.08 | 15.77 | 0.0378 | 22.23 | 0.167 | Pass |
| | Middle | 5580 | 13.35 | 12.66 | 16.03 | 0.0401 | 22.23 | 0.167 | Pass |
| | High | 5700 | 13.35 | 12.50 | 15.96 | 0.0394 | 22.23 | 0.167 | Pass |
| Band 3 | Low | 5745 | 8.92 | 7.33 | 11.21 | 0.0132 | 28.23 | 0.665 | Pass |
| | Middle | 5785 | 12.64 | 12.04 | 15.36 | 0.0344 | 28.23 | 0.665 | Pass |
| | High | 5825 | 12.24 | 11.92 | 15.09 | 0.0323 | 28.23 | 0.665 | Pass |

***Remark:***

1. *At finial test to get the worst-case emission at 6.5 Mbps.*
2. *The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*
3. *The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 22.23dBm (for band1/band2A/band 2C) and 28.23dBm (for band 3).*
4. *Total peak power = Chain 0 + Chain 1.*



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**IEEE 802.11an HT40 Mode (Two TX)**

| UNII Band | Channel | Channel Frequency (MHz) | Power (dBm) | | Power Total | | Power Limit | | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | (dBm) | (W) | (dBm) | (W) | |
| Band 1 | Low | 5190 | 10.68 | 10.14 | 13.43 | 0.0220 | 22.23 | 0.167 | Pass |
| | High | 5230 | 13.44 | 13.13 | 16.30 | 0.0427 | 22.23 | 0.167 | Pass |
| Band 2A | Low | 5270 | 13.22 | 12.73 | 15.99 | 0.0397 | 22.23 | 0.167 | Pass |
| | High | 5310 | 12.55 | 11.96 | 15.28 | 0.0337 | 22.23 | 0.167 | Pass |
| Band 2C | Low | 5510 | 13.41 | 12.03 | 15.78 | 0.0378 | 22.23 | 0.167 | Pass |
| | Middle | 5550 | 13.47 | 12.73 | 16.13 | 0.0410 | 22.23 | 0.167 | Pass |
| | High | 5670 | 13.45 | 12.75 | 16.12 | 0.0409 | 22.23 | 0.167 | Pass |
| Band 3 | Low | 5755 | 10.55 | 9.33 | 12.99 | 0.0199 | 28.23 | 0.665 | Pass |
| | High | 5795 | 12.92 | 12.37 | 15.66 | 0.0368 | 28.23 | 0.665 | Pass |

***Remark:***

1. *At finial test to get the worst-case emission at 13.5 Mbps.*
2. *The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*
3. *The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 22.23dBm (for band1/band2A/band 2C) and 28.23dBm (for band 3).*
4. *Total peak power = Chain 0 + Chain 1.*



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## 7.3 PEAK POWER SPECTRAL DENSITY

**LIMITS**

§ 15.407 (a)

(1) For the band 5.15-5.25 GHz

(I) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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 6dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(II) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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 6dBi.

(IV) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed
250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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 6dBi.



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(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

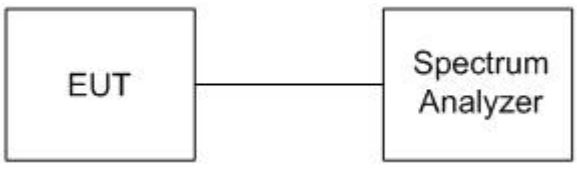
(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

## TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| EXA Signal Analyzer | Agilent | N9010A | MY52220817 | 03/19/2016 |

***Remark:*** *Each piece of equipment is scheduled for calibration once a year.*

## TEST SETUP





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**TEST PROCEDURE**

1. Place the EUT on the table and set it in transmitting mode.
   Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span = Sweep= AUTO
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.


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## TEST RESULTS

### IEEE 802.11a Mode (Two TX)

| U-NII | Channel | Channel Frequency (MHz) | PPSD (dBm) | | PSD Total (dBm) | Minimum Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | | | |
| Band 1 | Low | 5180 | 5.45 | 4.74 | 8.12 | 9.23 | Pass |
| | Middle | 5220 | 6.19 | 5.54 | 8.89 | 9.23 | Pass |
| | High | 5240 | 5.95 | 5.74 | 8.85 | 9.23 | Pass |
| Band 2A | Low | 5260 | 5.80 | 6.32 | 9.07 | 9.23 | Pass |
| | Middle | 5280 | 5.92 | 6.42 | 9.19 | 9.23 | Pass |
| | High | 5320 | 5.16 | 4.94 | 8.06 | 9.23 | Pass |
| Band 2C | Low | 5500 | 5.68 | 5.90 | 8.80 | 9.23 | Pass |
| | Middle | 5580 | 6.12 | 6.52 | 9.33 | 9.23 | Pass |
| | High | 5700 | 1.98 | 2.55 | 5.28 | 9.23 | Pass |

***Remark:***

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
3. *The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 9.23dBm.*
4. *Total power spectral density = Chain 0 + Chain 1.*



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**IEEE 802.11an HT20 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | PPSD (dBm) | | PSD Total (dBm) | Minimum Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | | | |
| Band 1 | Low | 5180 | 3.74 | 4.33 | 7.05 | 9.23 | Pass |
| | Middle | 5220 | 5.07 | 5.73 | 8.42 | 9.23 | Pass |
| | High | 5240 | 6.15 | 6.19 | 9.18 | 9.23 | Pass |
| Band 2A | Low | 5260 | 6.20 | 6.21 | 9.22 | 9.23 | Pass |
| | Middle | 5280 | 5.66 | 6.02 | 8.86 | 9.23 | Pass |
| | High | 5320 | 4.15 | 4.44 | 7.31 | 9.23 | Pass |
| Band 2C | Low | 5500 | 4.38 | 5.06 | 7.74 | 9.23 | Pass |
| | Middle | 5580 | 5.87 | 6.25 | 9.07 | 9.23 | Pass |
| | High | 5700 | 1.02 | 1.73 | 4.40 | 9.23 | Pass |

***Remark:***

*1. At finial test to get the worst-case emission at 6.5Mbps.*
*2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
*3. The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 9.23dBm.*
*4. Total power spectral density = Chain 0 + Chain 1.*


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**IEEE 802.11an HT40 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | PPSD (dBm) | | PSD Total (dBm) | Minimum Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | | | |
| Band 1 | Low | 5190 | -3.64 | -1.92 | 0.32 | 9.23 | Pass |
| | High | 5230 | 4.92 | 4.71 | 7.83 | 9.23 | Pass |
| Band 2A | Low | 5270 | 5.67 | 5.43 | 8.56 | 9.23 | Pass |
| | High | 5310 | -1.80 | -2.06 | 1.09 | 9.23 | Pass |
| Band 2C | Low | 5510 | -1.06 | -2.20 | 1.42 | 9.23 | Pass |
| | Middle | 5550 | 3.66 | 3.17 | 6.43 | 9.23 | Pass |
| | High | 5670 | 1.42 | 0.83 | 4.14 | 9.23 | Pass |

***Remark:***

*1. At finial test to get the worst-case emission at 13.5Mbps.*
*2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
*3. The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 9.23dBm.*
*4. Total power spectral density = Chain 0 + Chain 1.*


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**IEEE 802.11a Mode**

| U-NII | Channel | Channel Frequency (MHz) | PPSD (dBm) | | PSD Total (dBm) | Minimum Limit (dBm/500kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | | | |
| Band 3 | Low | 5745 | -4.57 | -6.25 | -2.32 | 28.23 | PASS |
| | Middle | 5785 | 1.50 | 1.38 | 4.45 | 28.23 | PASS |
| | High | 5825 | -0.33 | -0.73 | 2.49 | 28.23 | PASS |

***Remark:***

*1. At finial test to get the worst-case emission at 6.5Mbps.*
*2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
*3. The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 28.23dBm.*
*4. Total power spectral density = Chain 0 + Chain 1.*

**IEEE 802.11an HT20 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | PPSD (dBm) | | PSD Total (dBm) | Minimum Limit (dBm/500kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | | | |
| Band 3 | Low | 5745 | -5.58 | -7.84 | -3.55 | 28.23 | PASS |
| | Middle | 5785 | 2.16 | 1.93 | 5.06 | 28.23 | PASS |
| | High | 5825 | -2.21 | -2.23 | 0.79 | 28.23 | PASS |

***Remark:***

*1. At finial test to get the worst-case emission at 6.5Mbps.*
*2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
*3. The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 28.23dBm.*
*4. Total power spectral density = Chain 0 + Chain 1.*


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**IEEE 802.11an HT40 Mode (Two TX)**

| U-NII | Channel | Channel Frequency (MHz) | PPSD (dBm) | | PSD Total (dBm) | Minimum Limit (dBm/500kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | | Chain 0 | Chain 1 | | | |
| Band 3 | Low | 5755 | -6.72 | -8.52 | -4.52 | 28.23 | PASS |
| | High | 5795 | -1.39 | -1.37 | 1.63 | 28.23 | PASS |

***Remark:***

1. *At finial test to get the worst-case emission at 13.5Mbps.*
2. *The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*
3. *The directional gain is 7.77 dBi which is more than 6dBi, the limit should be 28.23dBm.*
4. *Total power spectral density = Chain 0 + Chain 1.*



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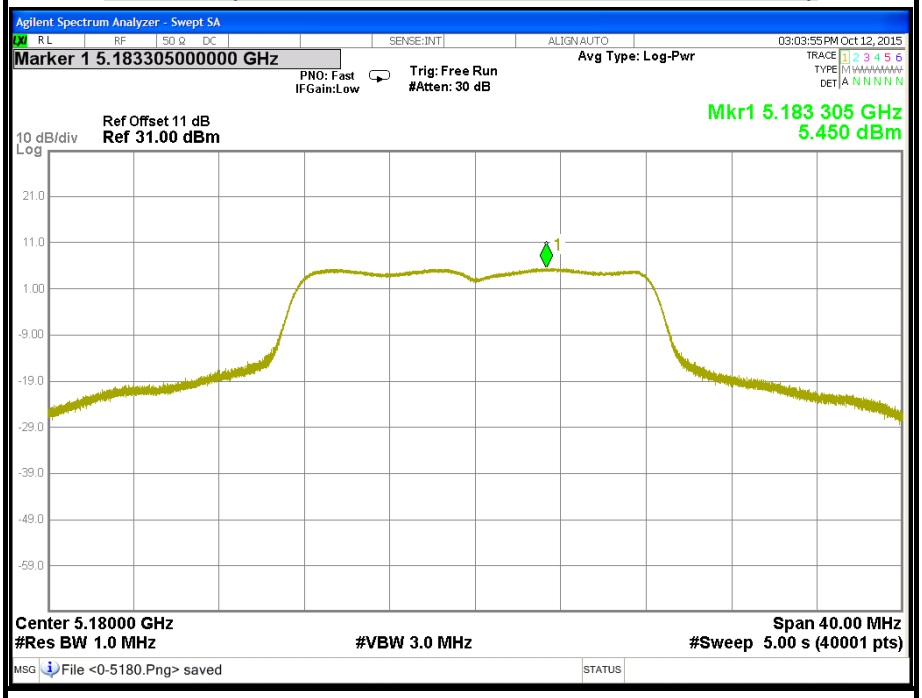
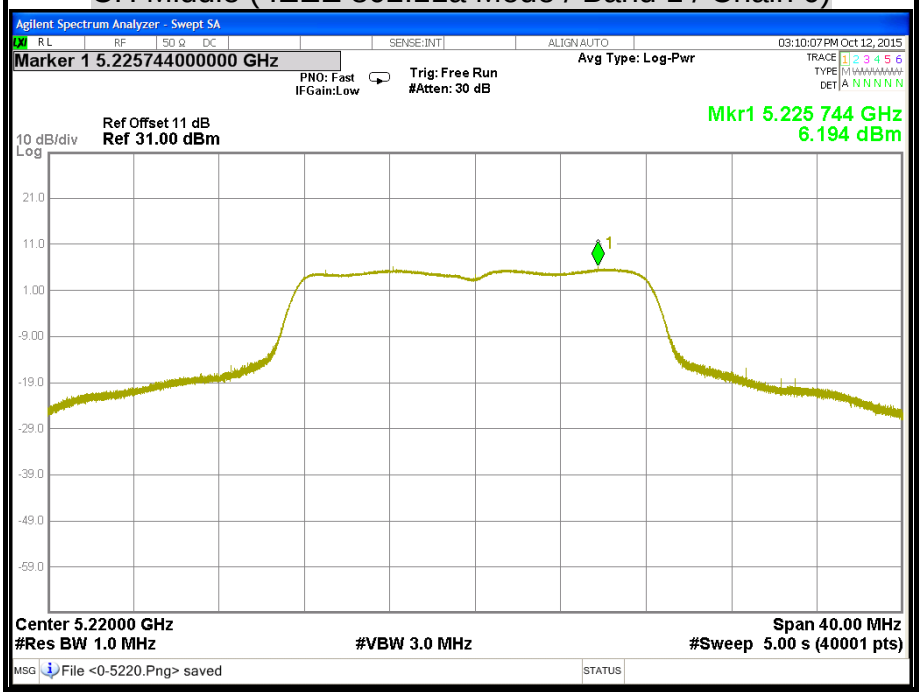
## POWER SPECTRAL DENSITY

CH Low ( IEEE 802.11a Mode / Band 1 / Chain 0 )




CH Middle ( IEEE 802.11a Mode / Band 1 / Chain 0)





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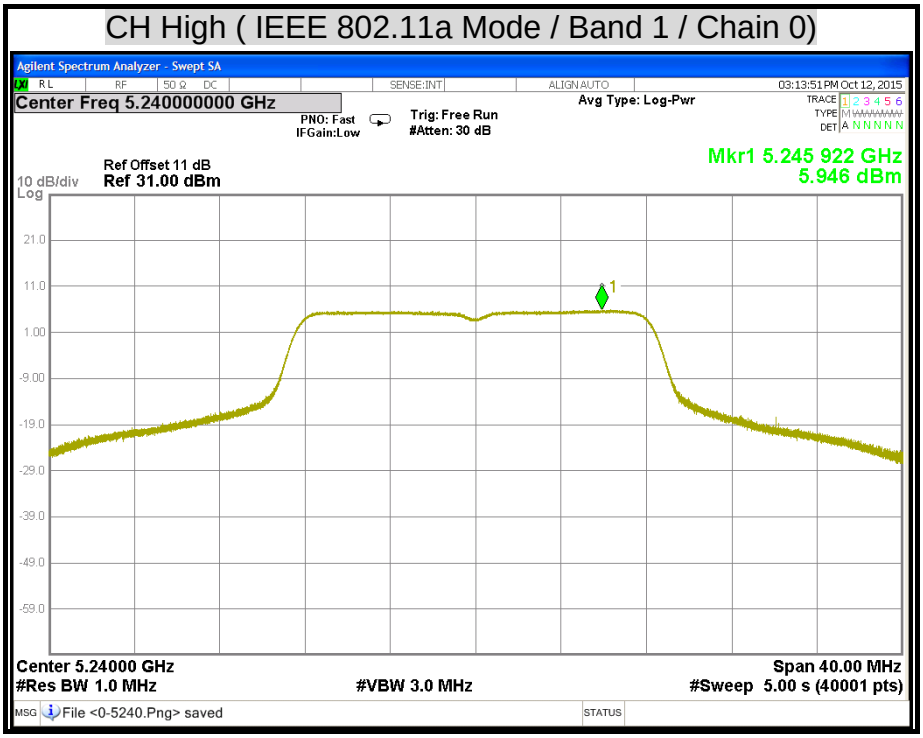
CH High ( IEEE 802.11a Mode / Band 1 / Chain 0)



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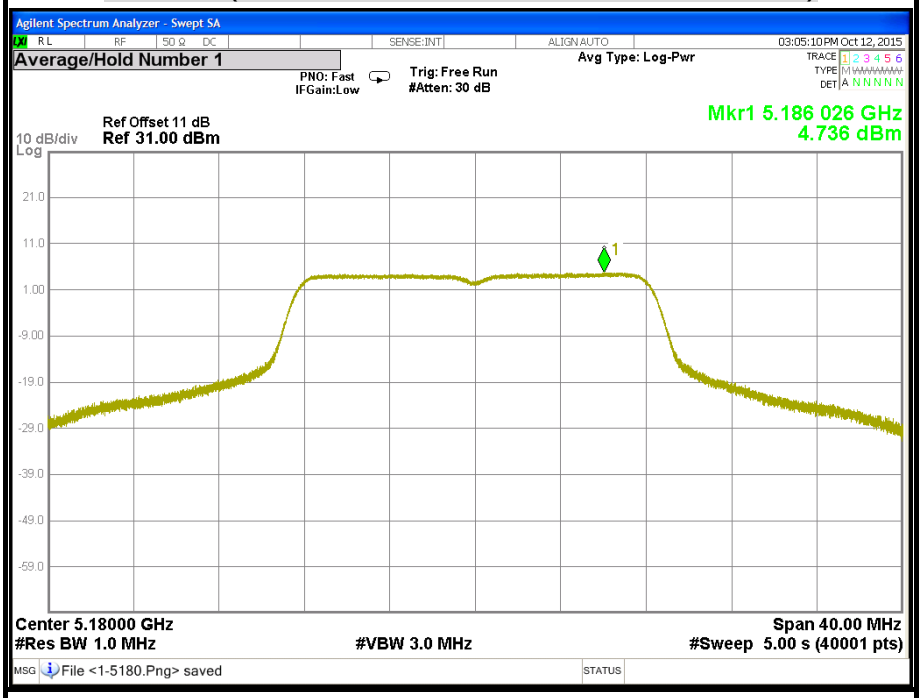
CH Low ( IEEE 802.11a Mode / Band 1 / Chain 1 )

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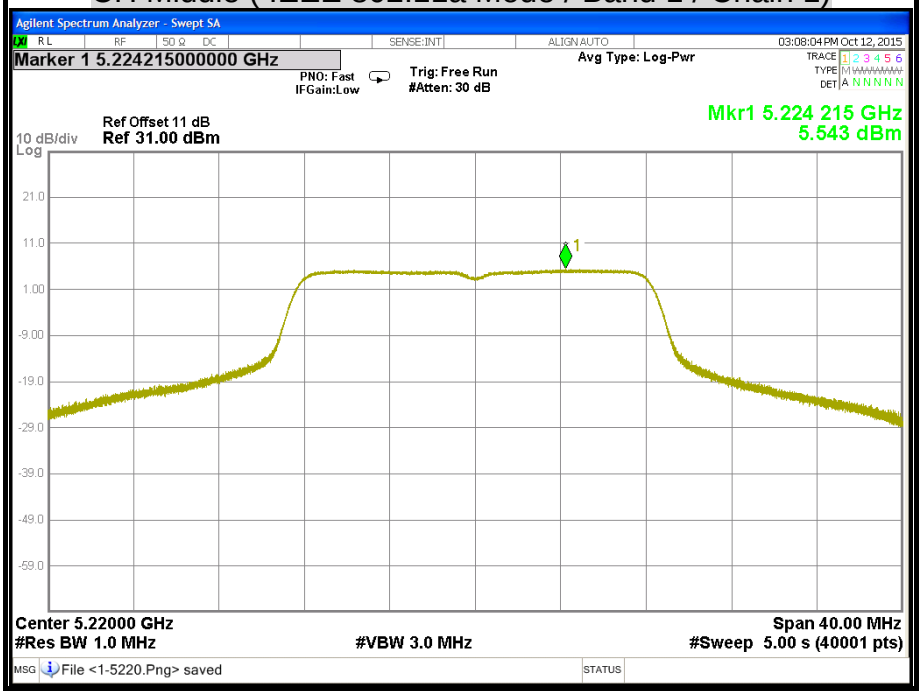



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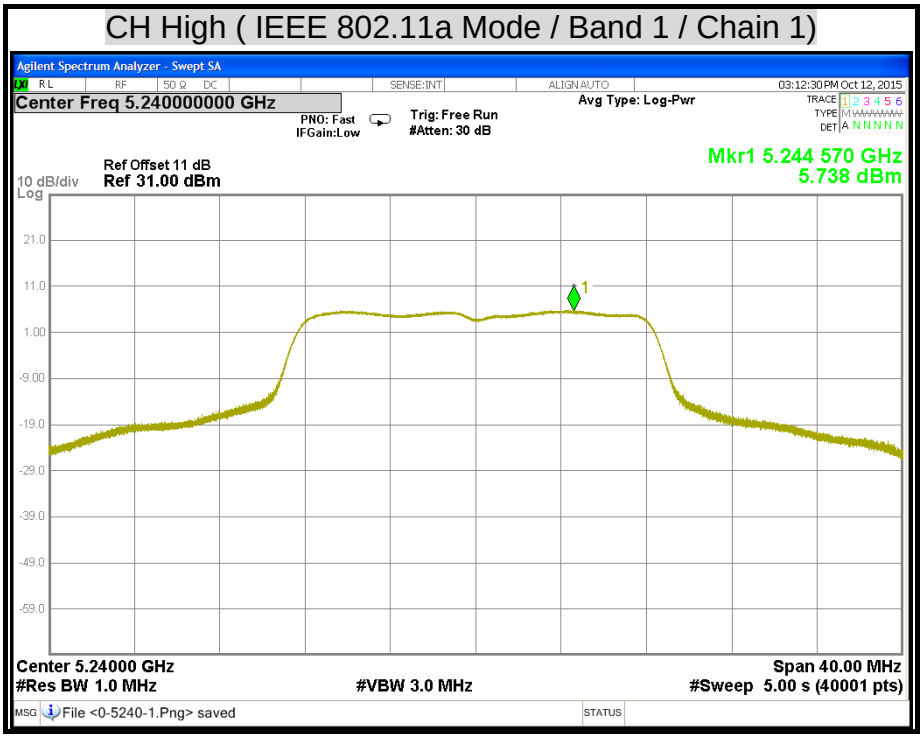




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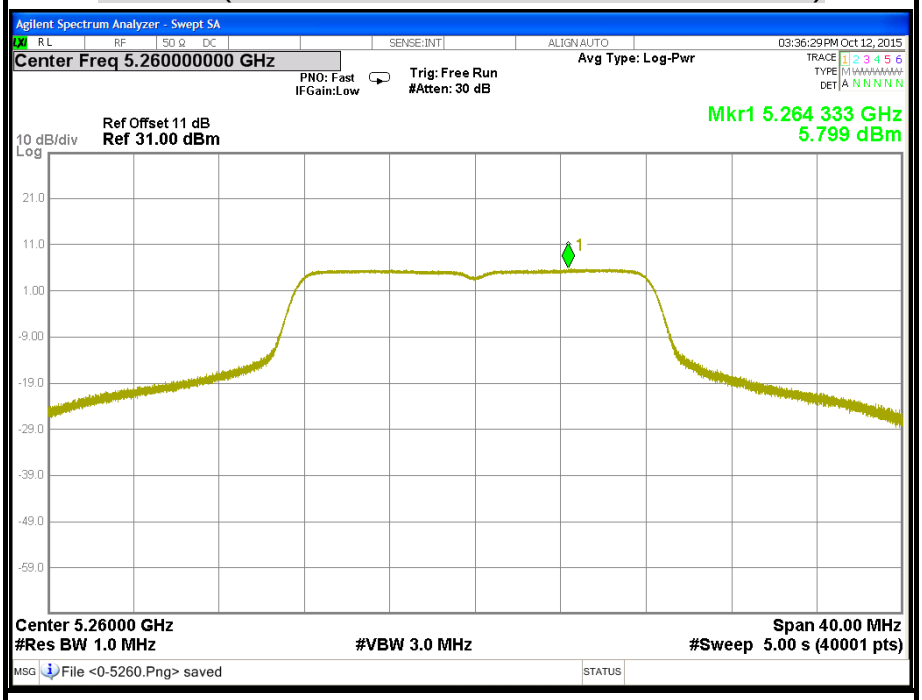


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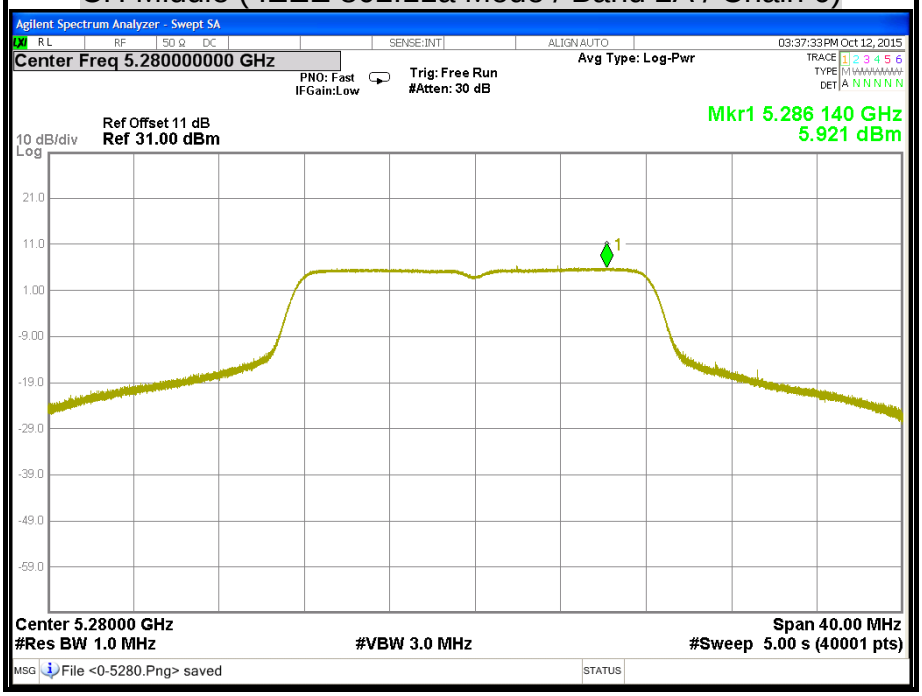



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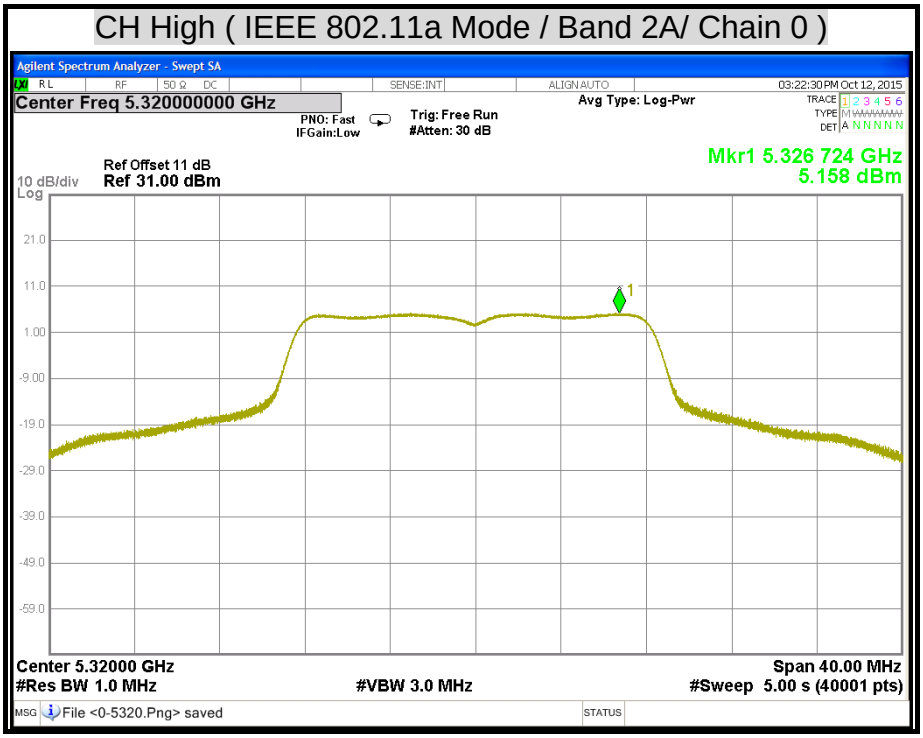




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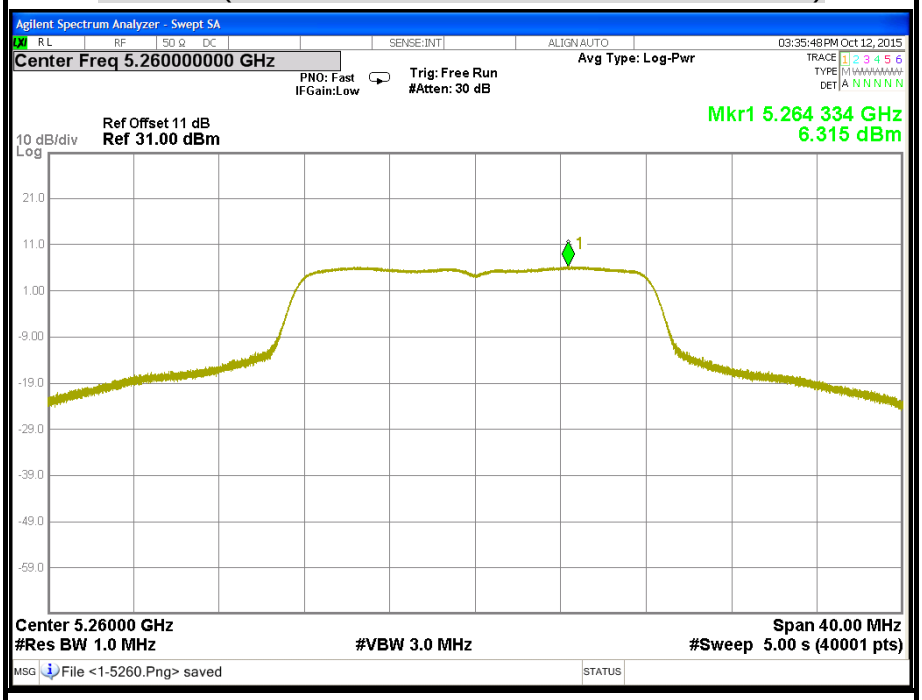


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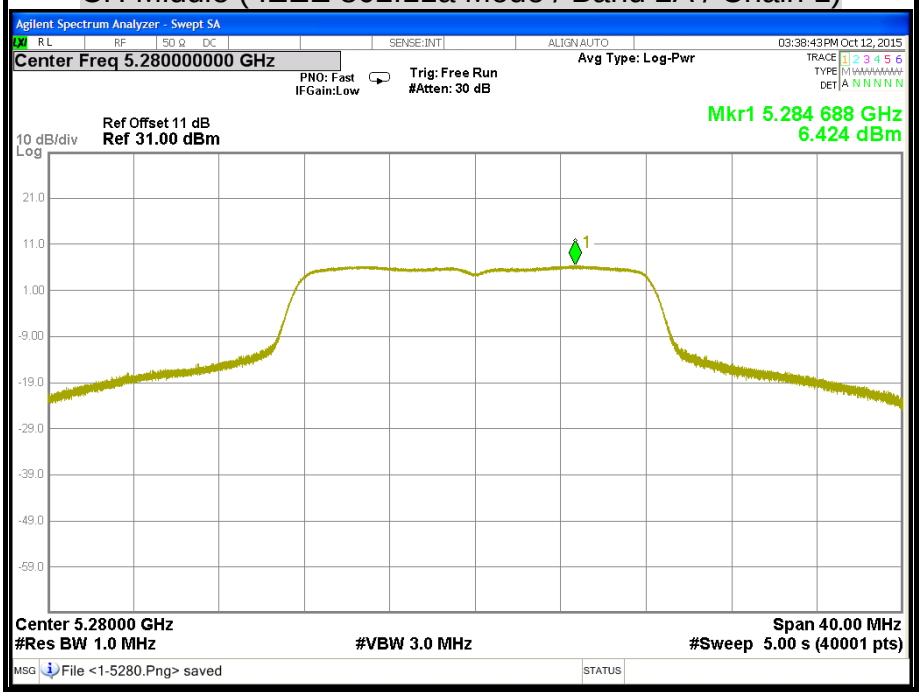



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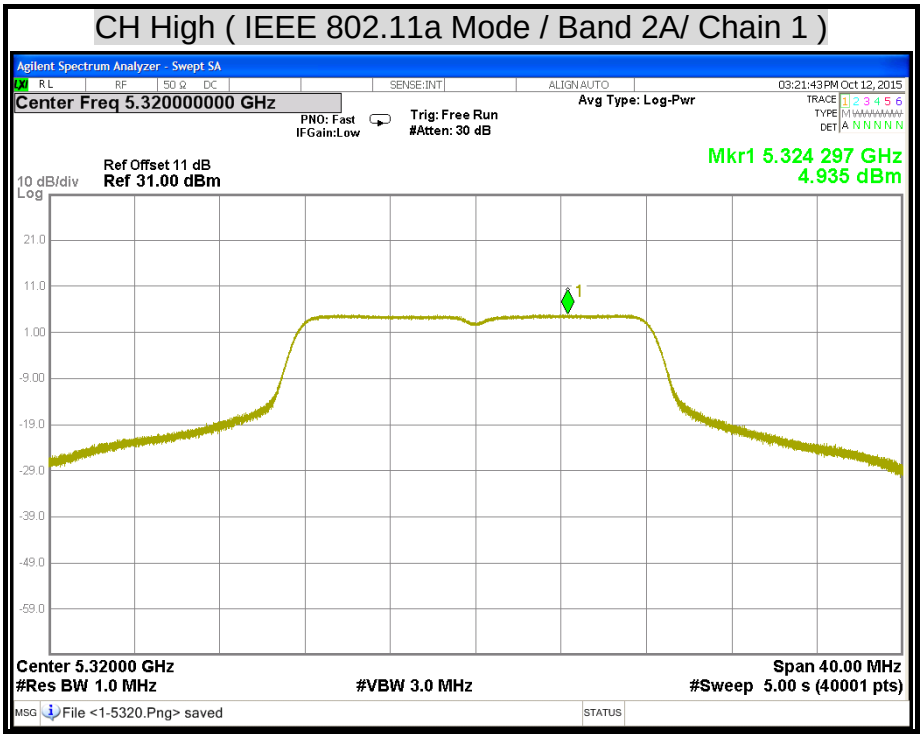




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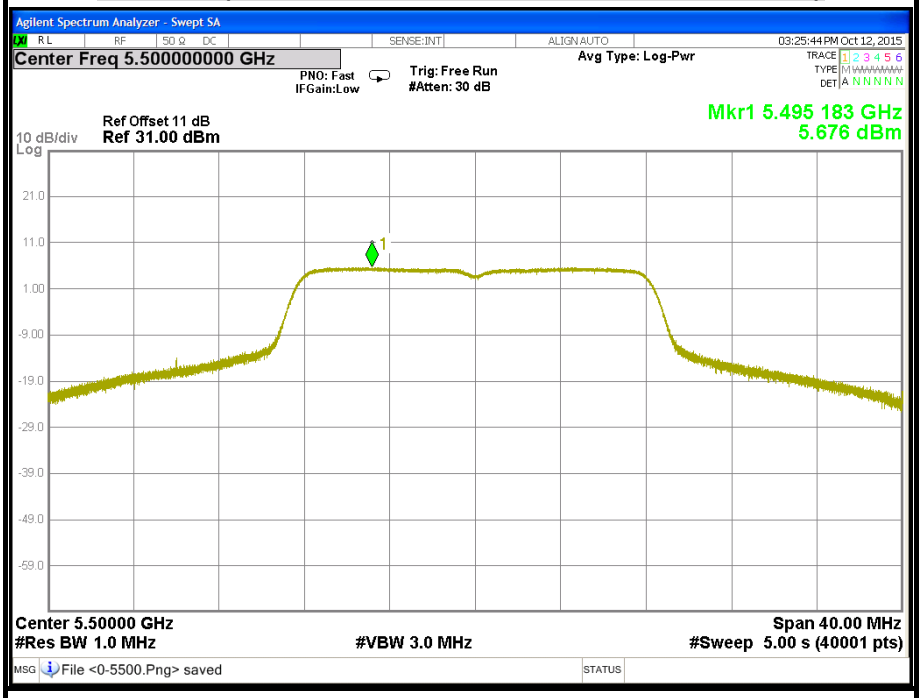


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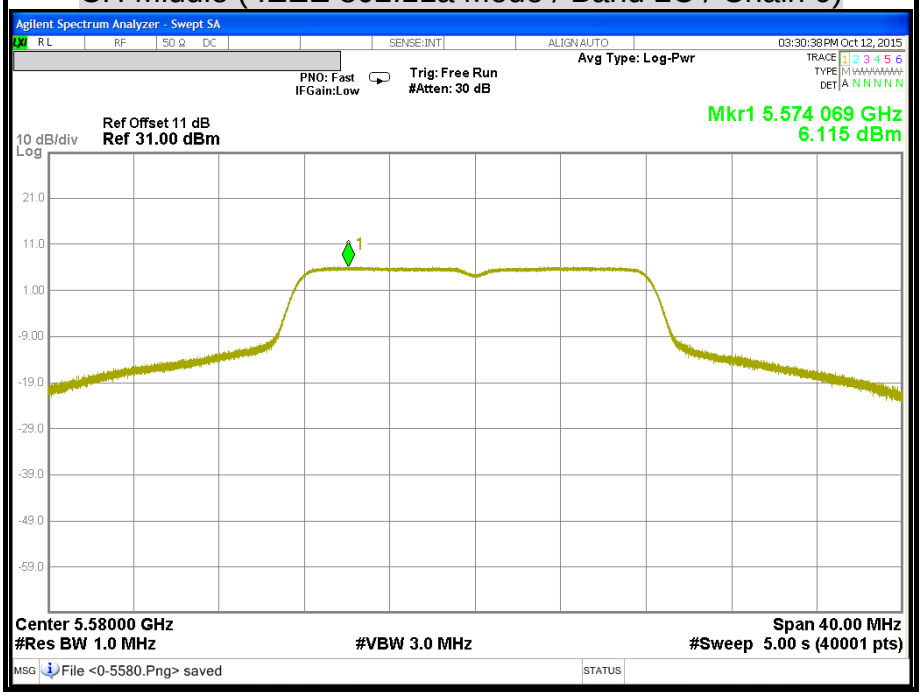



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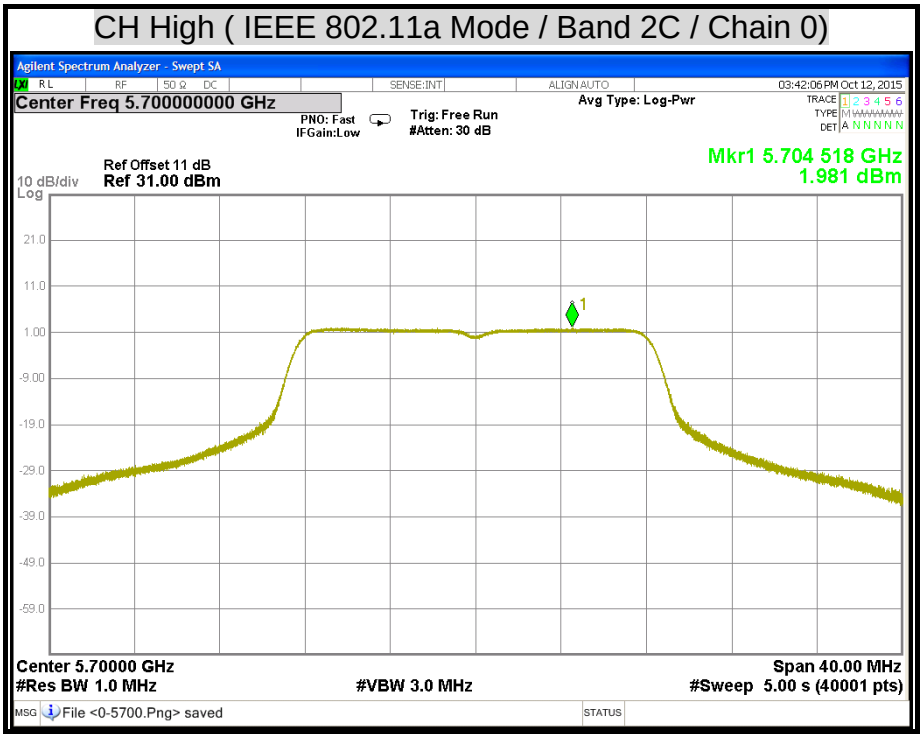




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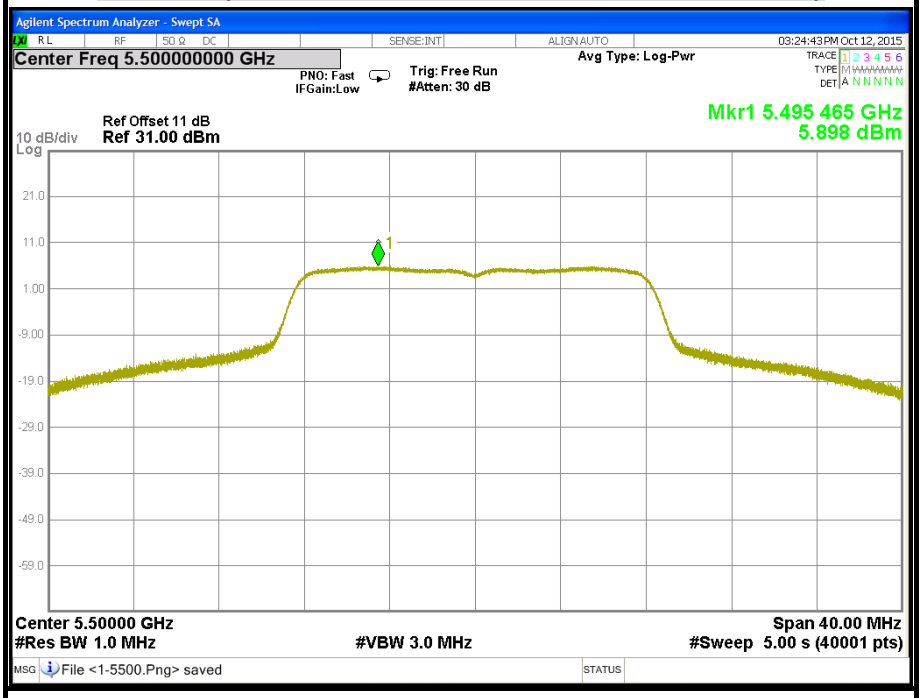


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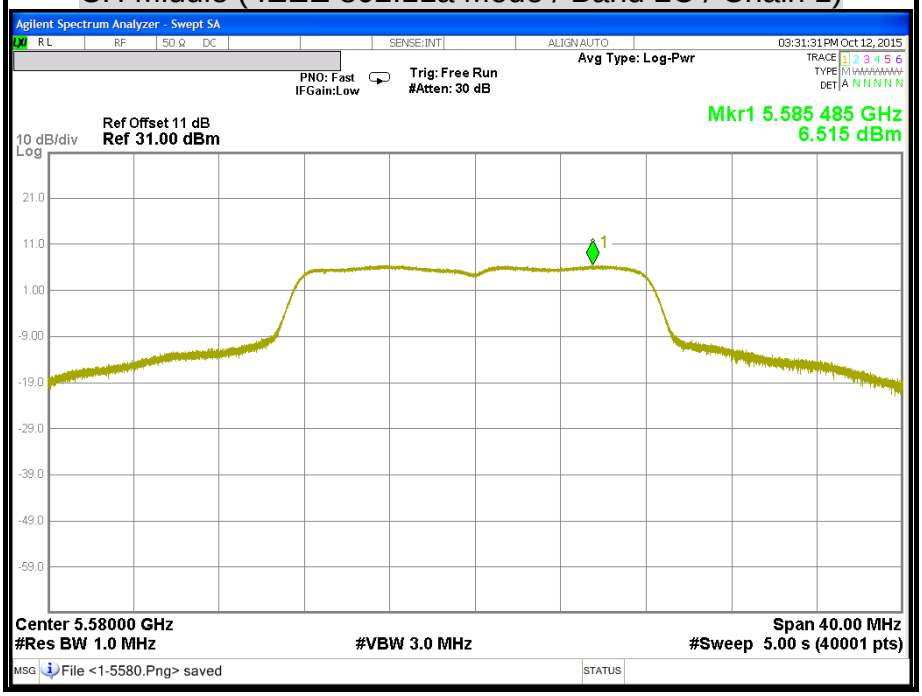



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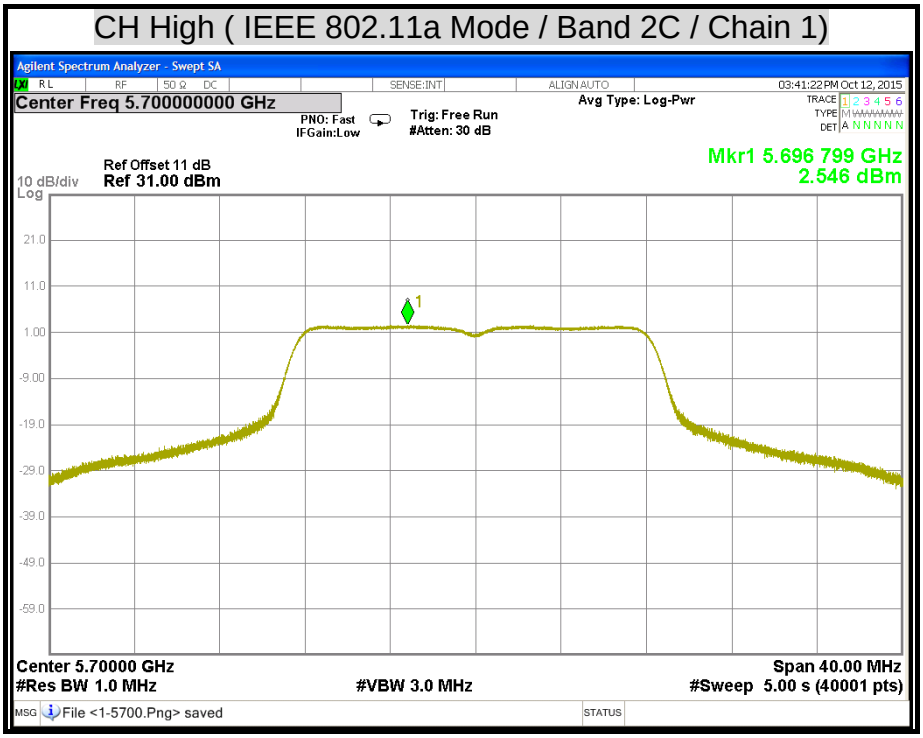




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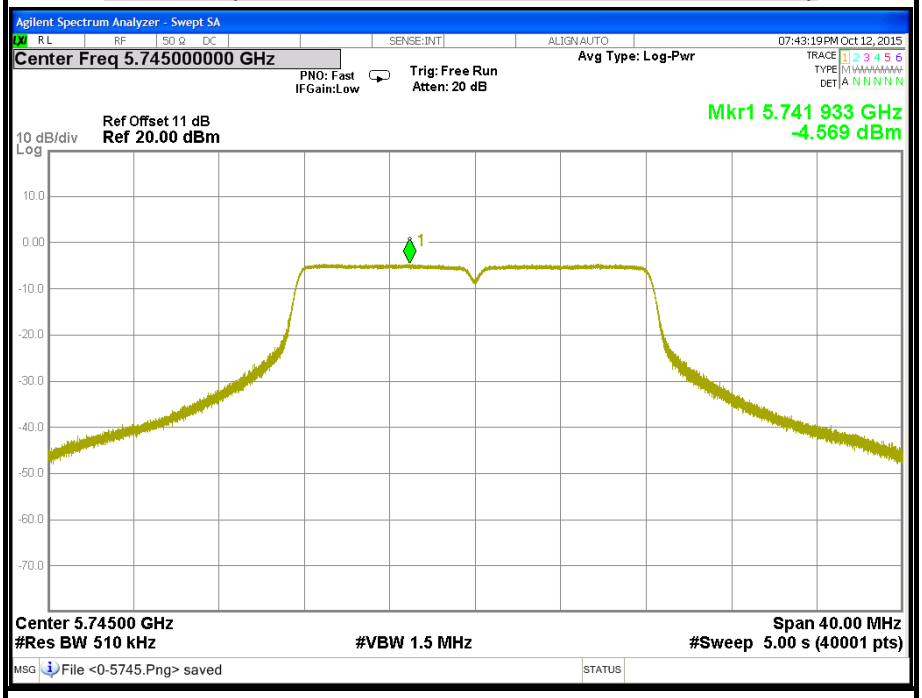
CH Low ( IEEE 802.11a Mode / Band 3 / Chain 0 )

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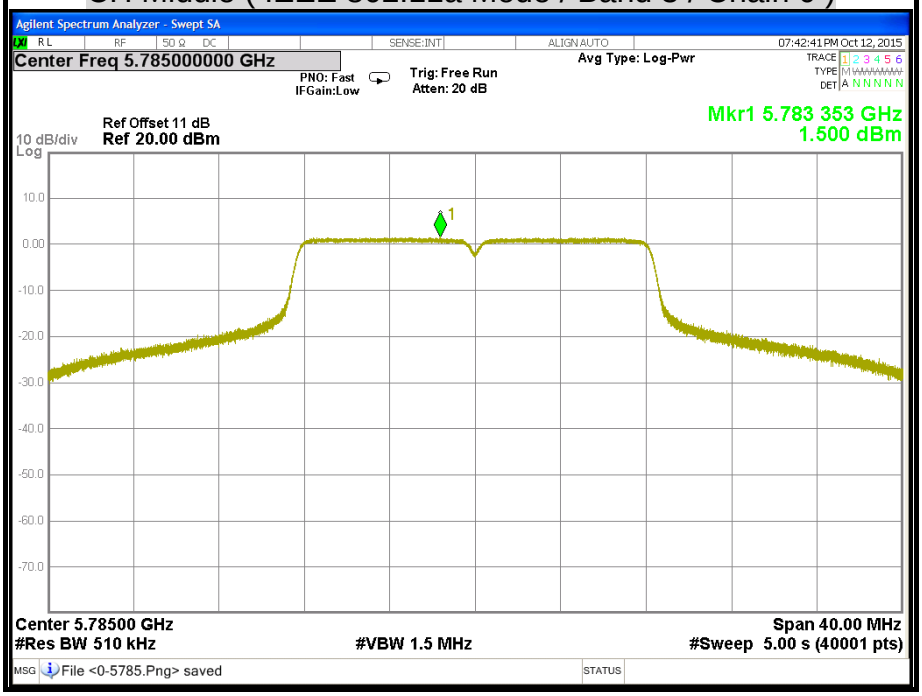



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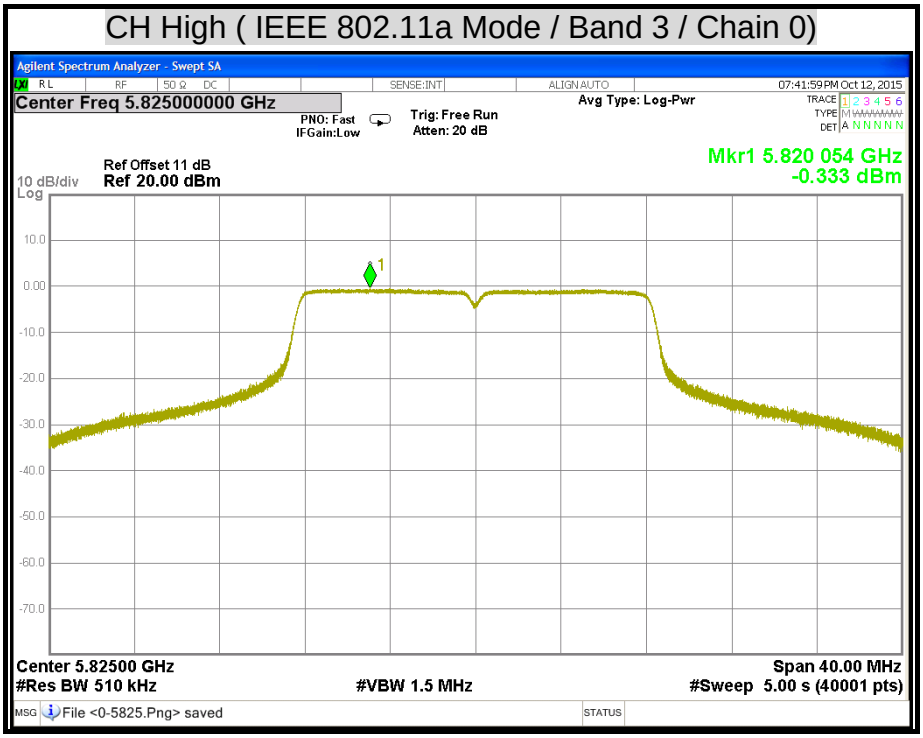
CH High ( IEEE 802.11a Mode / Band 3 / Chain 0)



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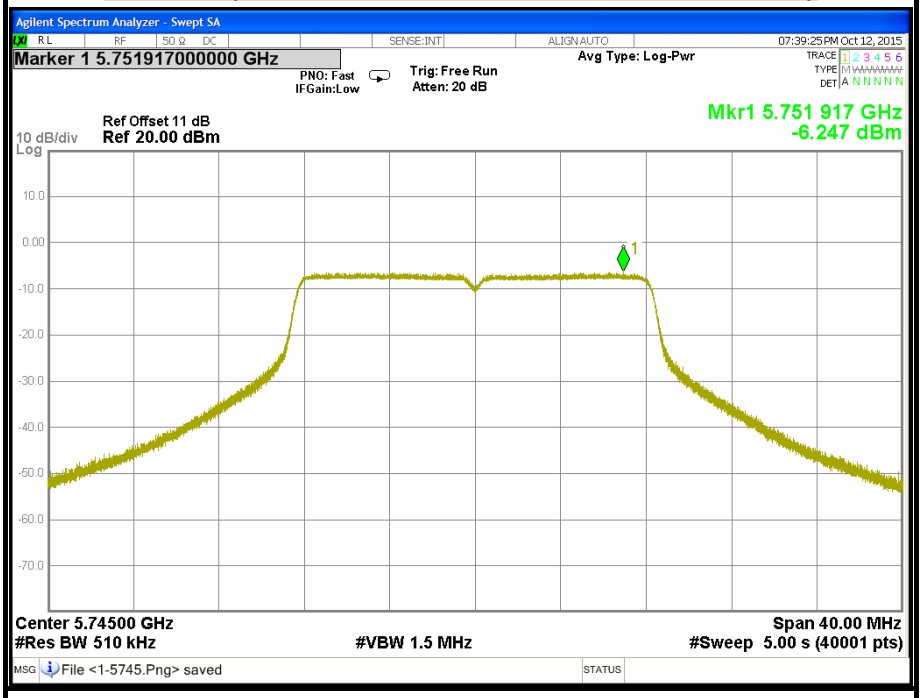


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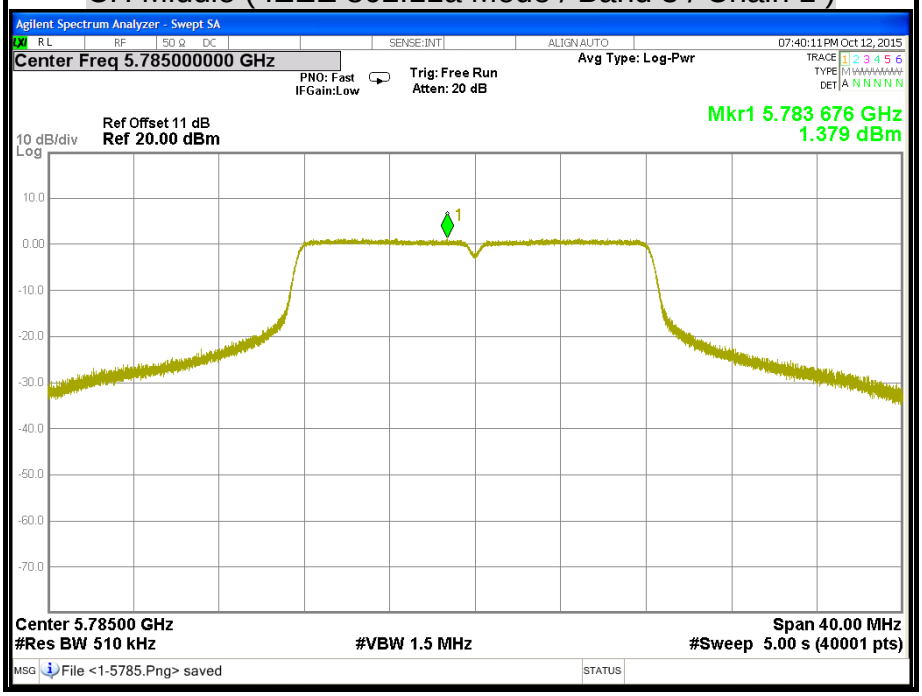



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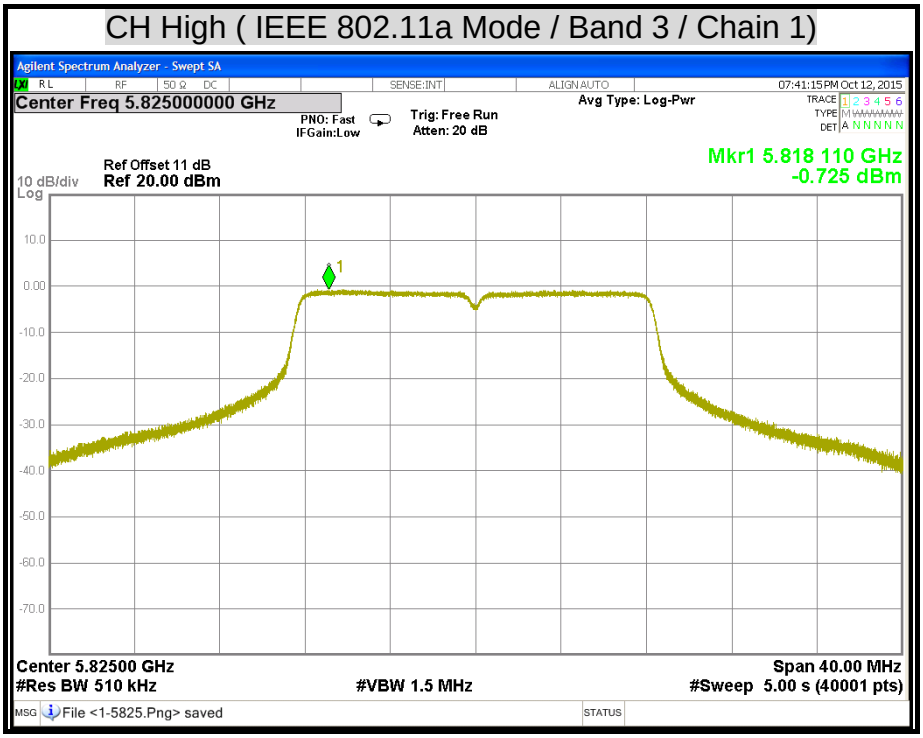
CH High ( IEEE 802.11a Mode / Band 3 / Chain 1)



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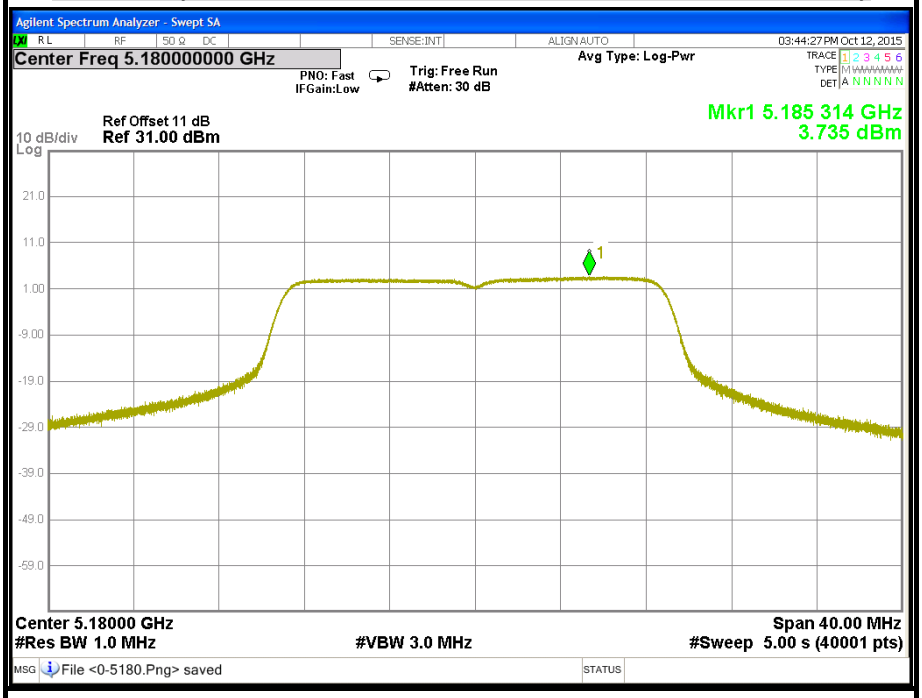
CH Low ( IEEE 802.11an HT20 Mode / Band 1 / Chain 0 )

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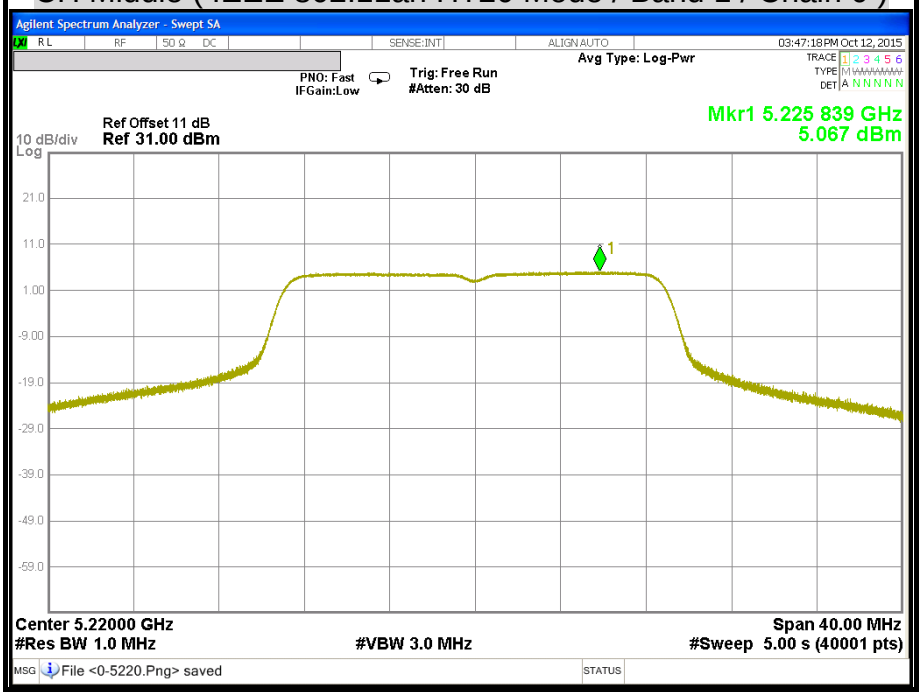



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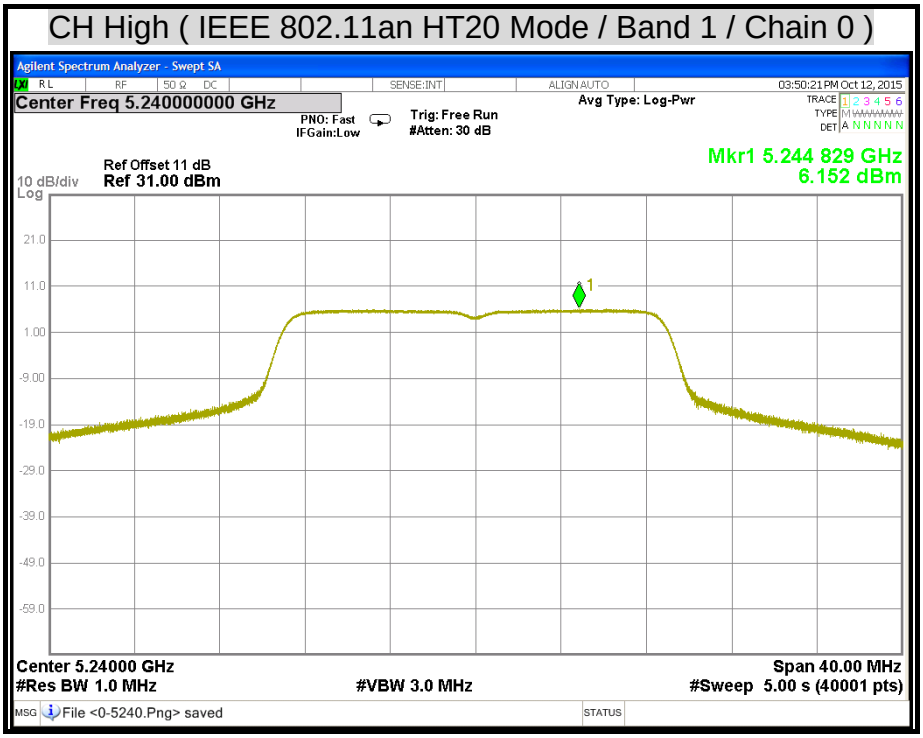




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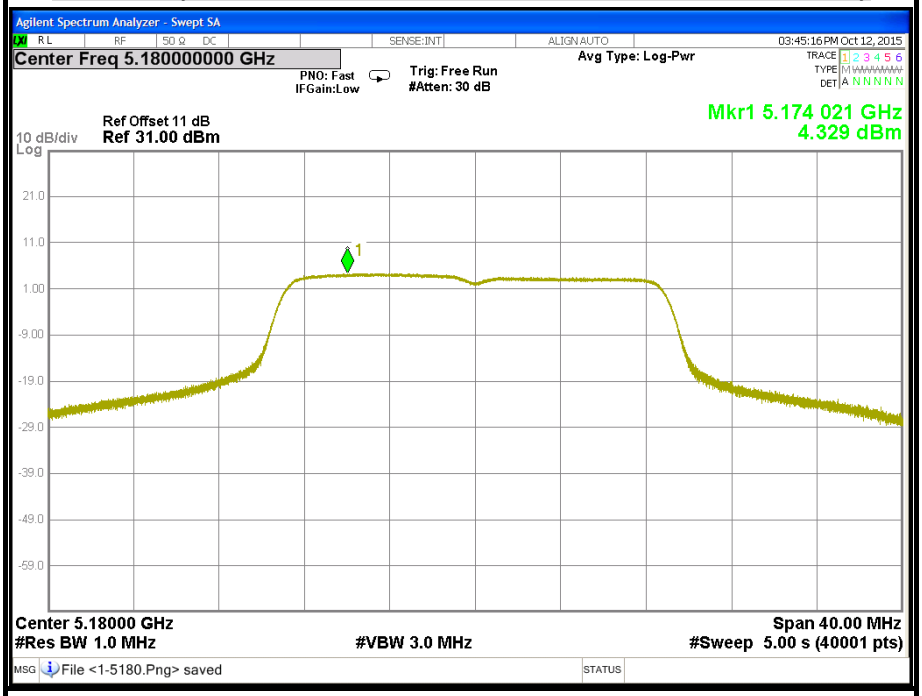


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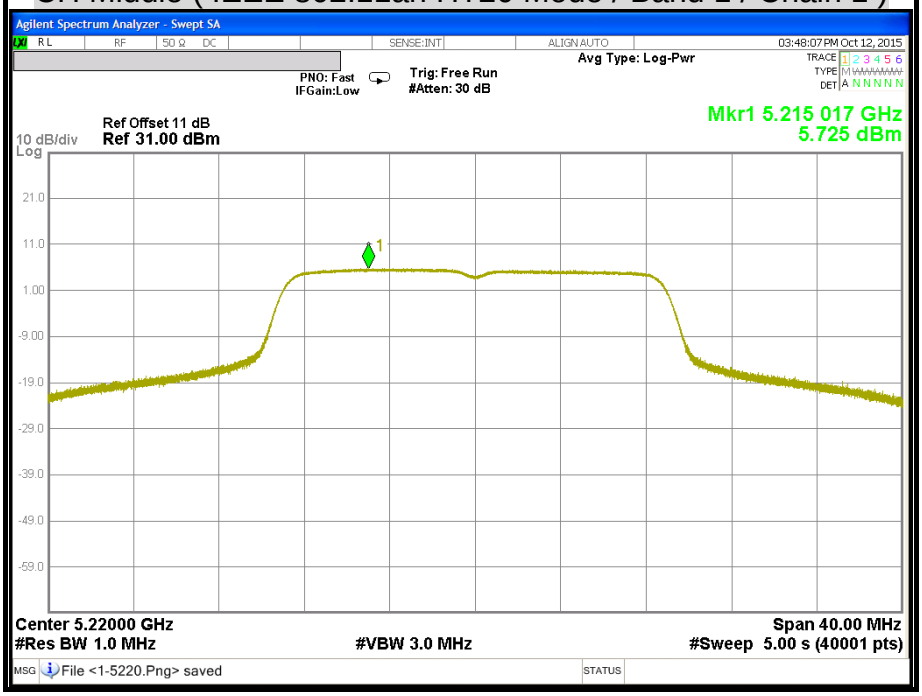



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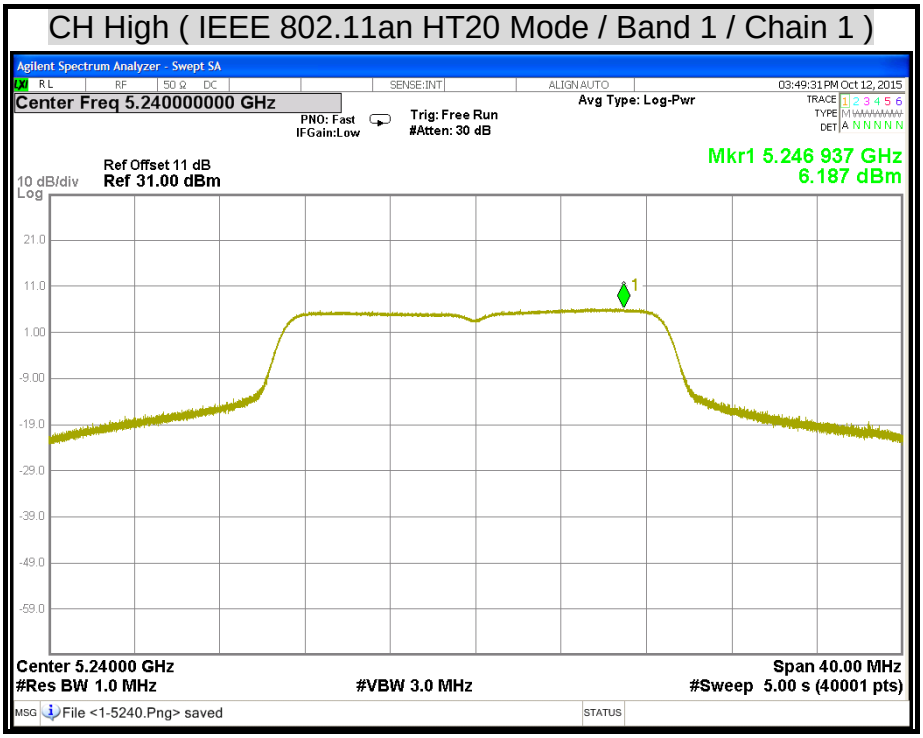
CH High ( IEEE 802.11an HT20 Mode / Band 1 / Chain 1 )



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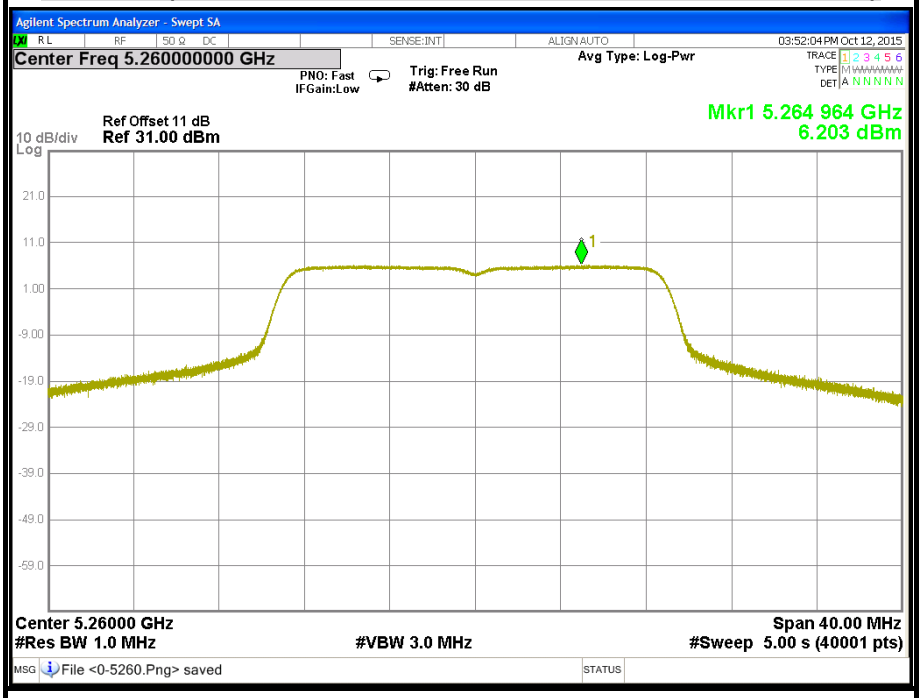


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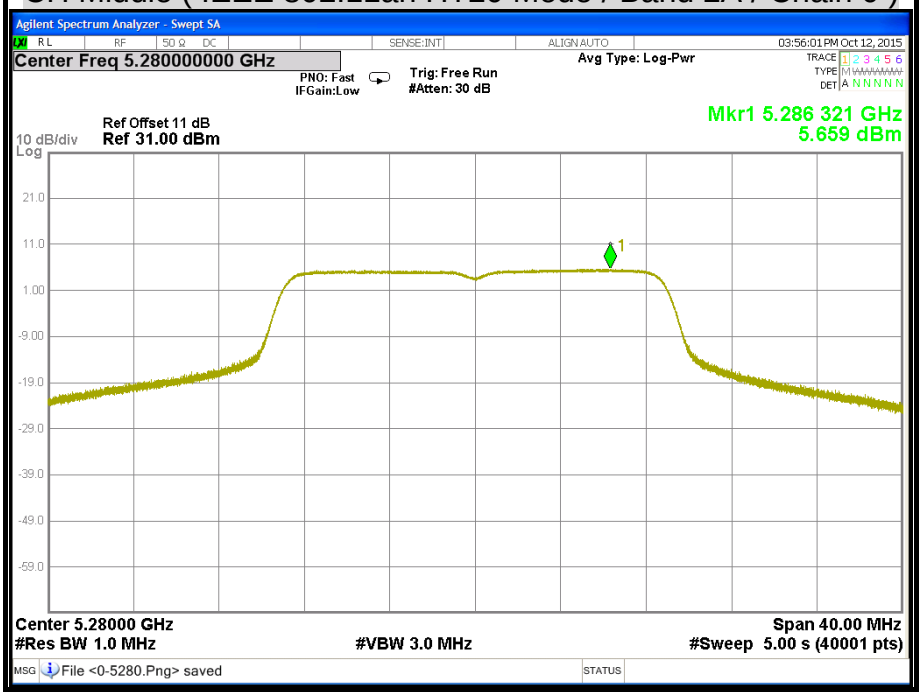



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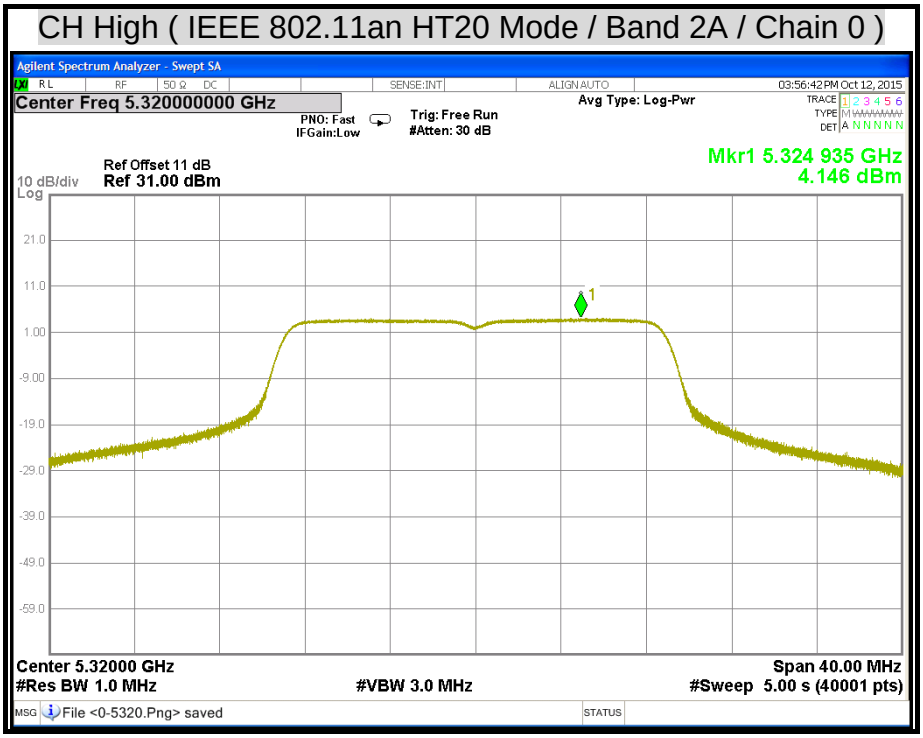




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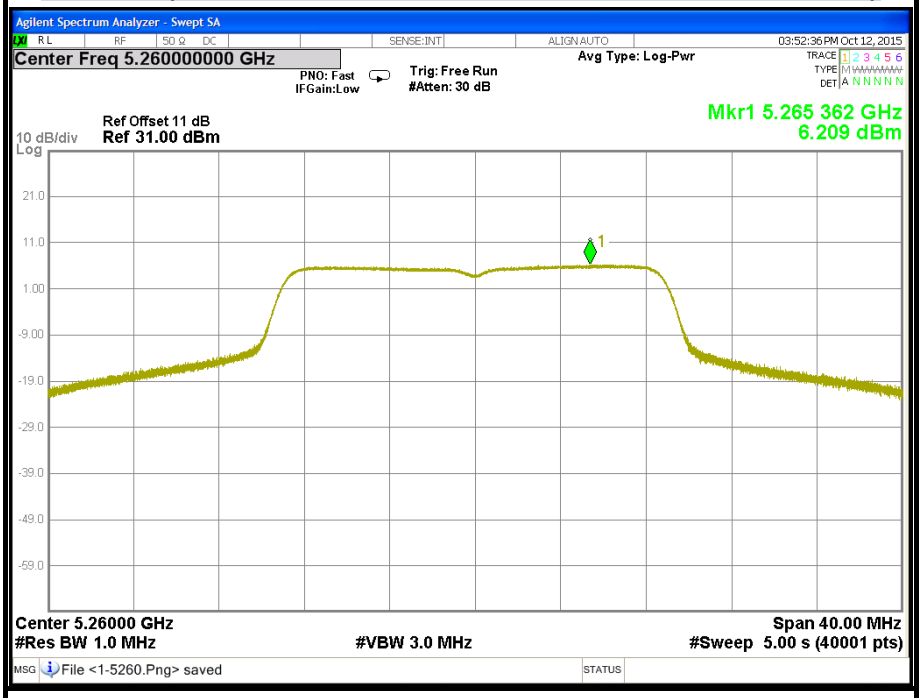


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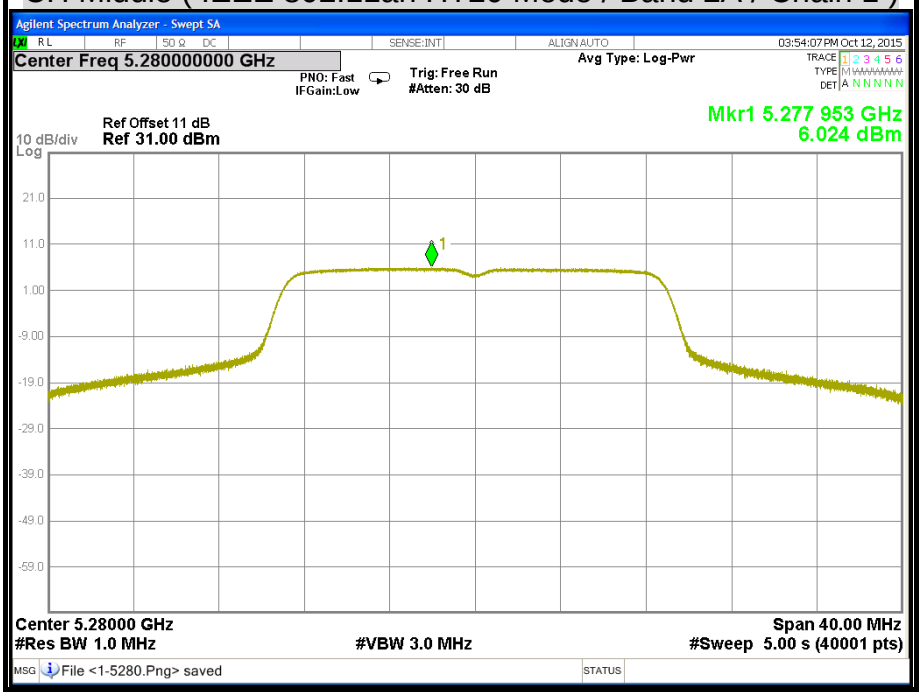



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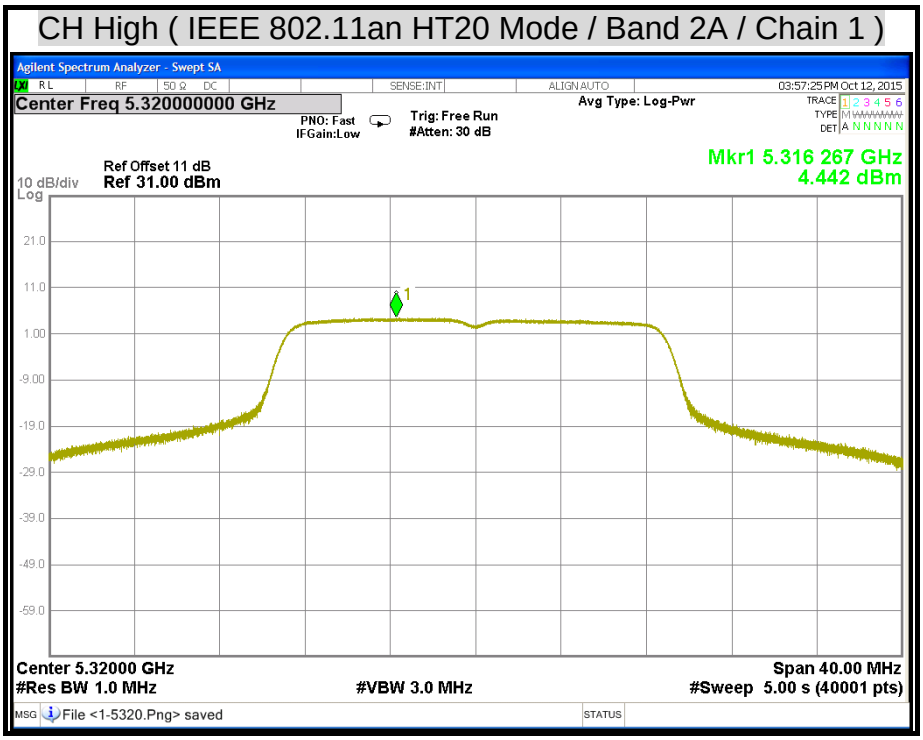



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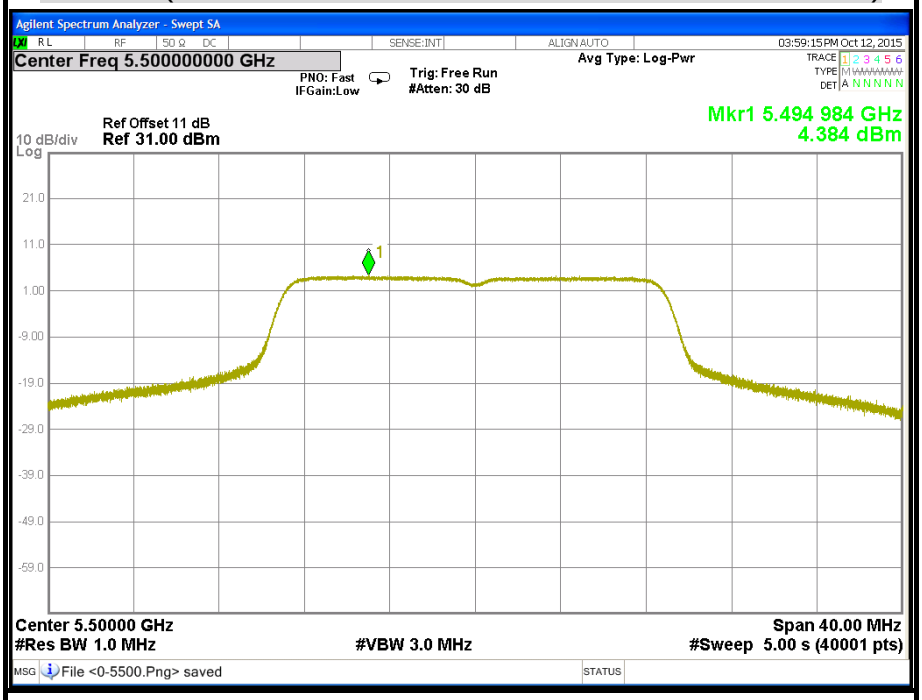


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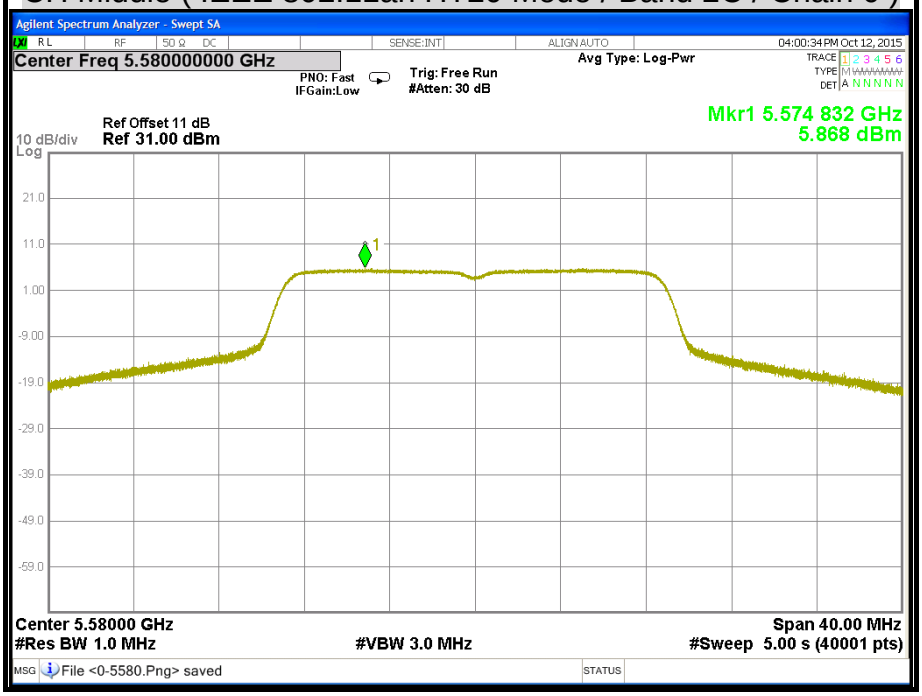



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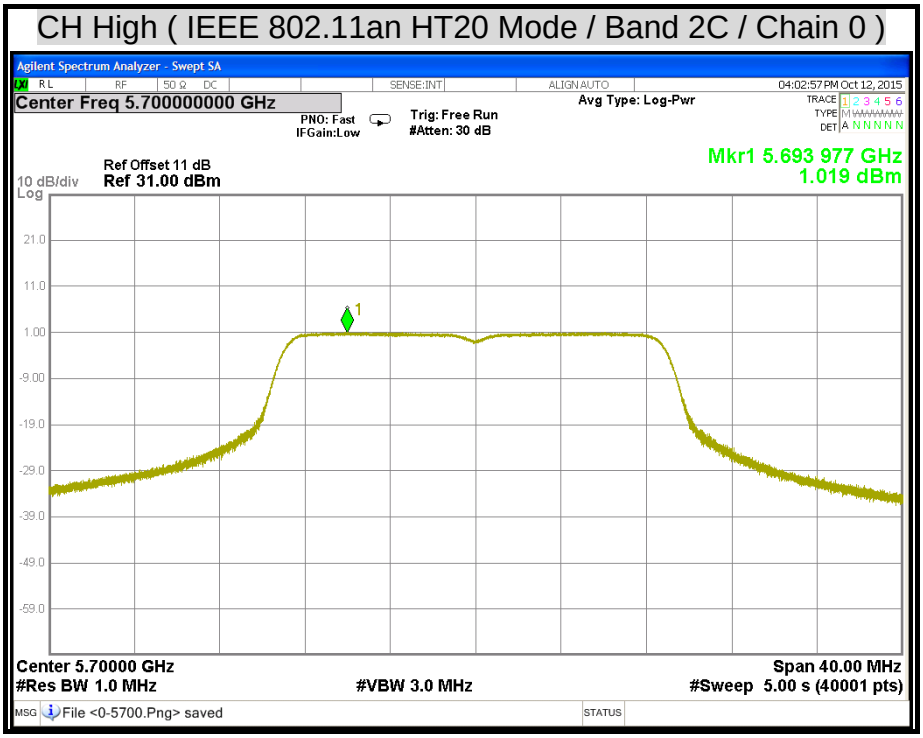




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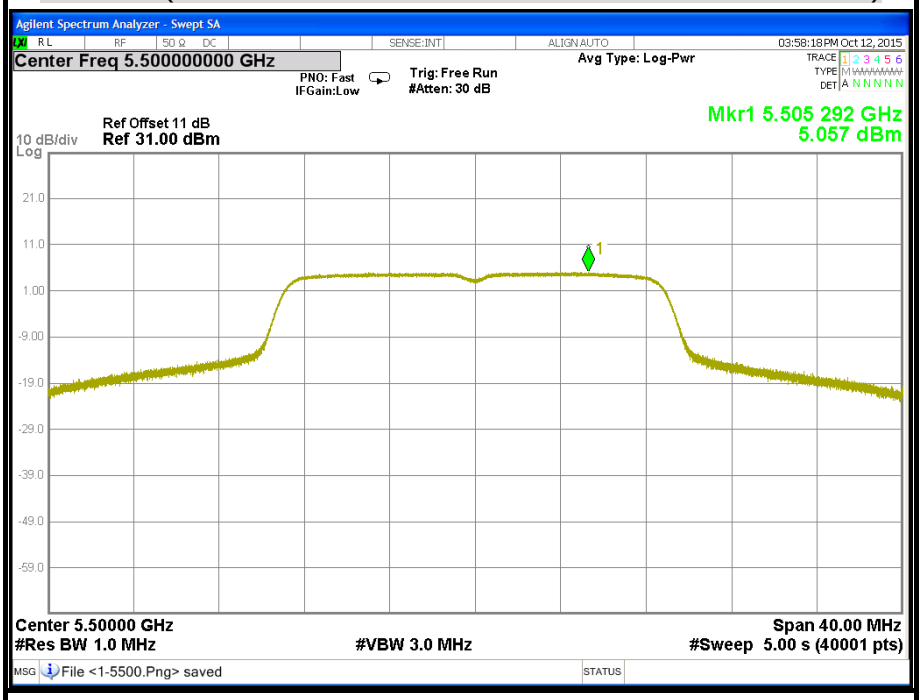


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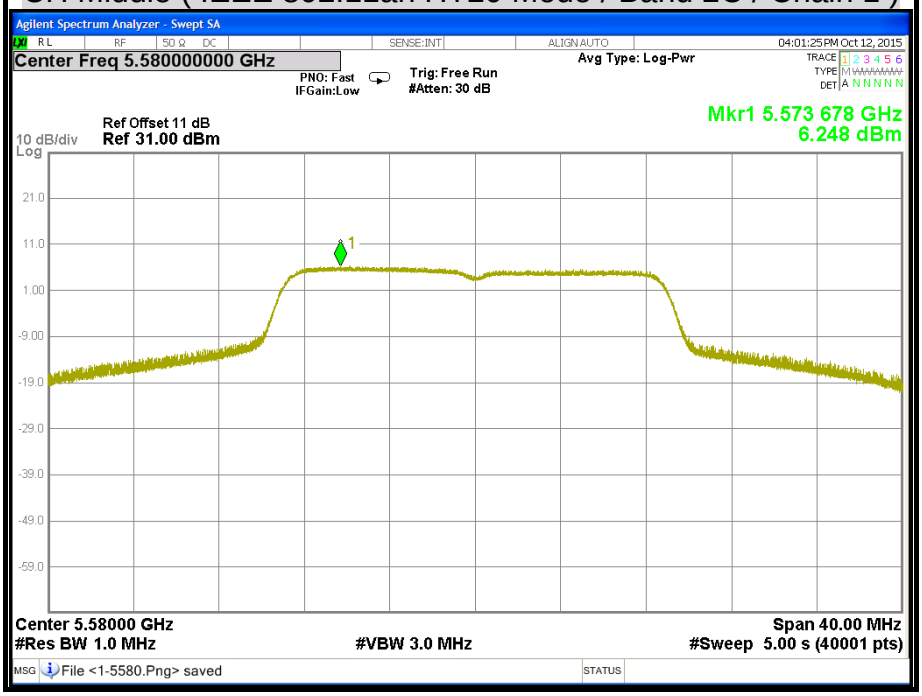



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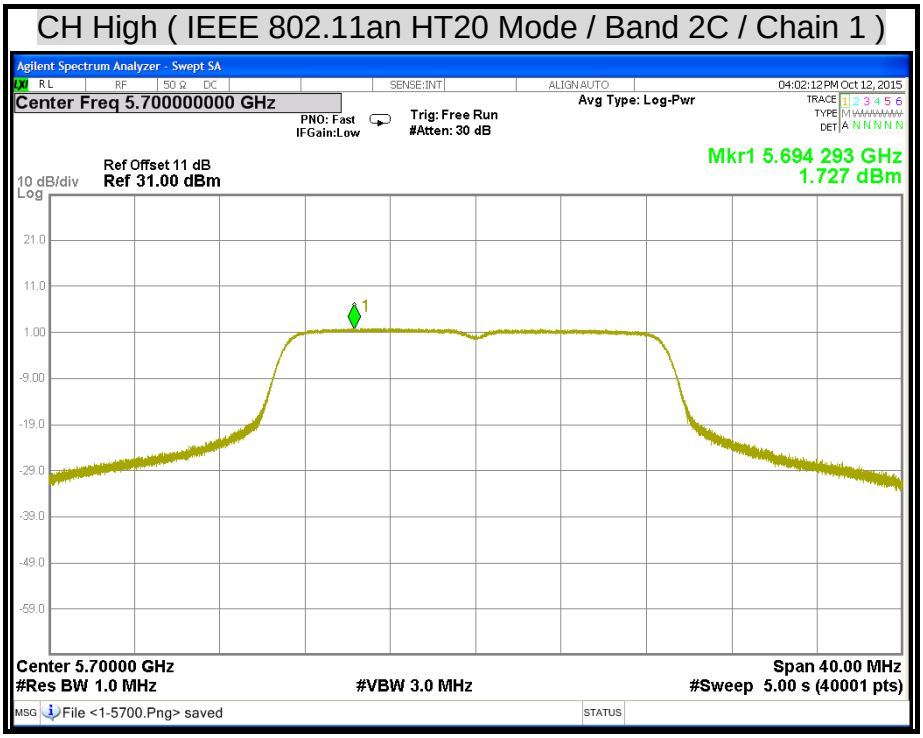
CH High ( IEEE 802.11an HT20 Mode / Band 2C / Chain 1 )



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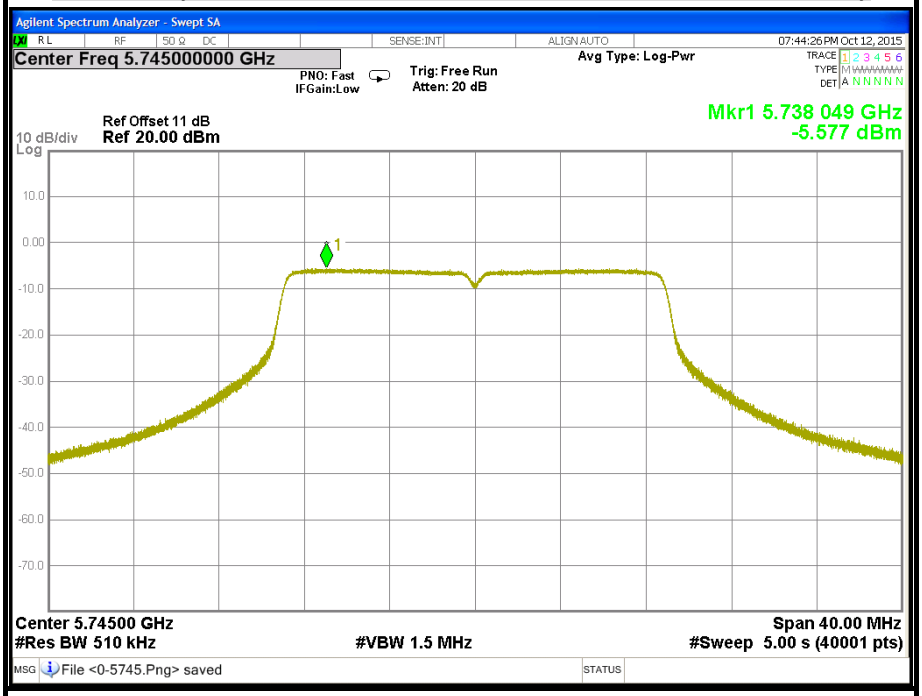
CH Low ( IEEE 802.11an HT20 Mode / Band 3 / Chain 0 )

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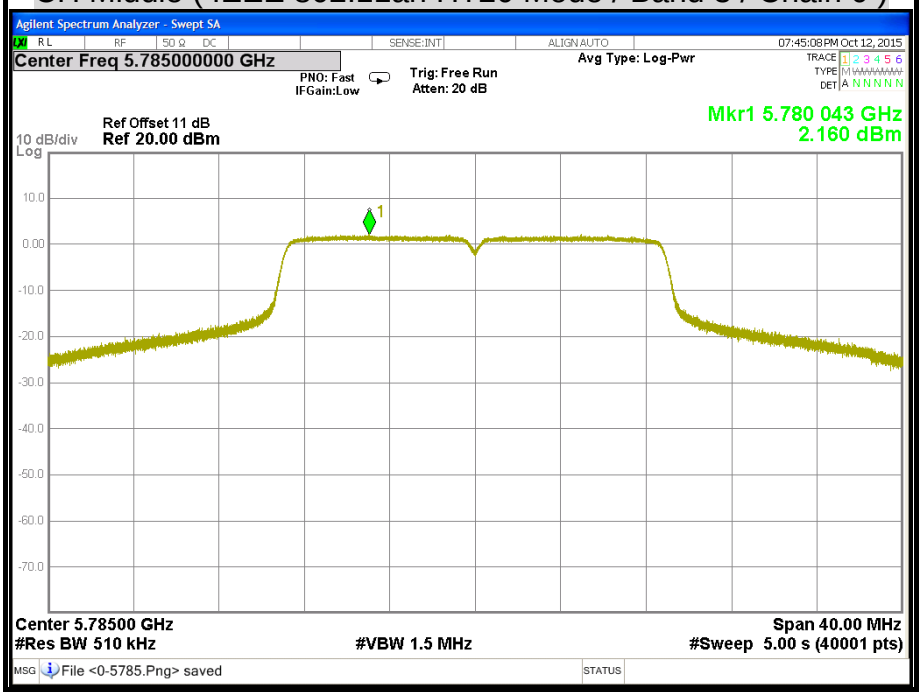



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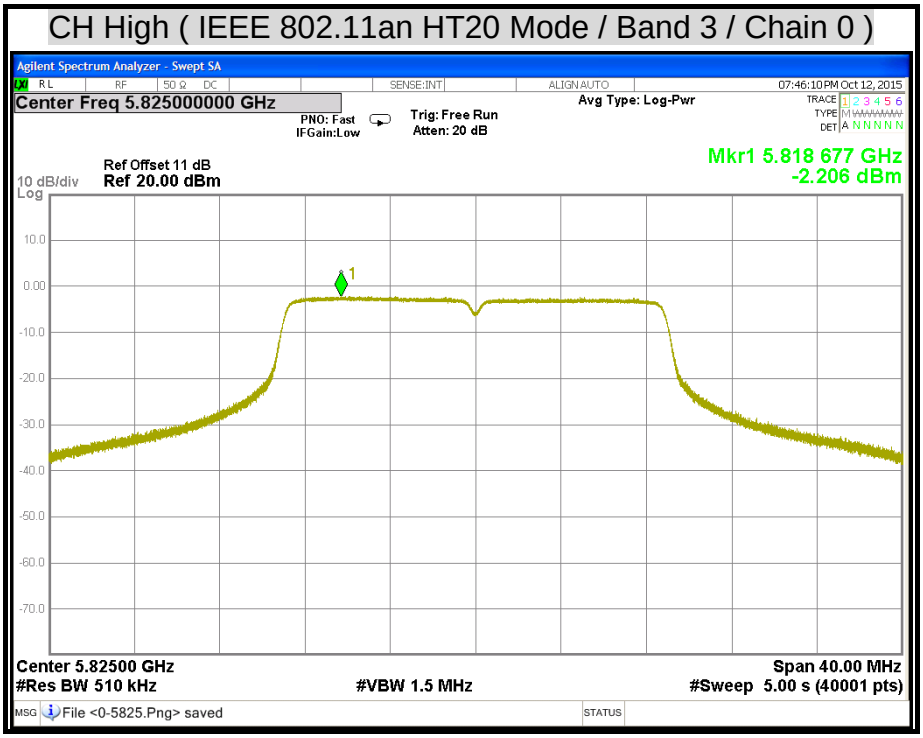
CH High ( IEEE 802.11an HT20 Mode / Band 3 / Chain 0 )



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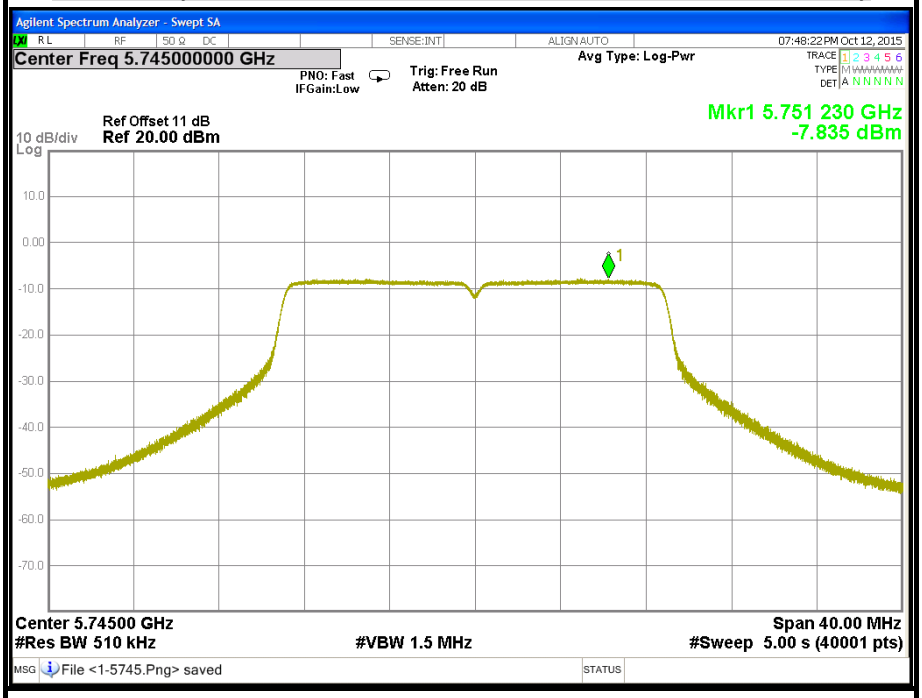
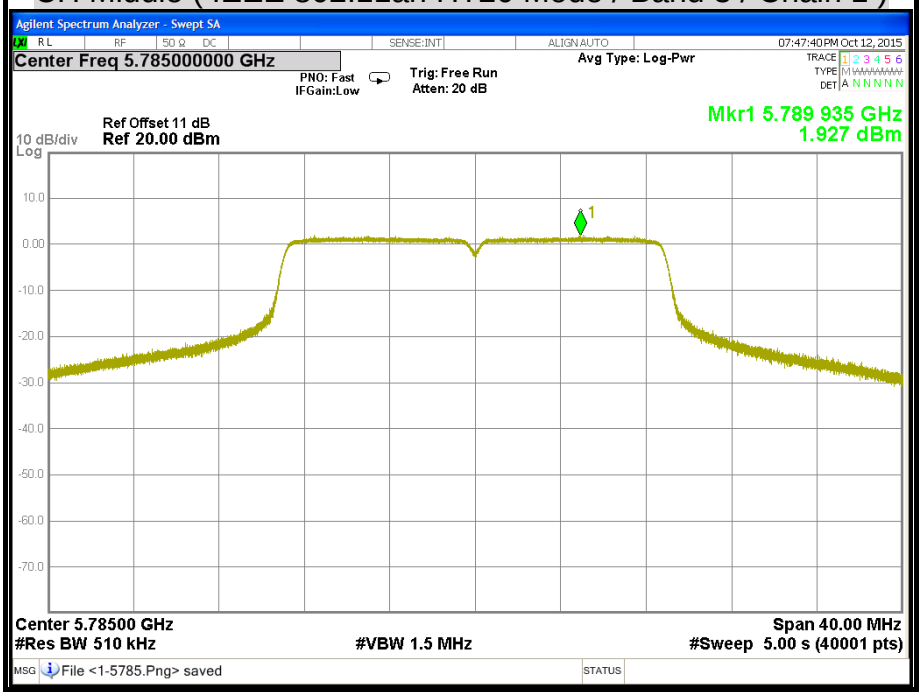
CH Low ( IEEE 802.11an HT20 Mode / Band 3 / Chain 1 )




CH Middle ( IEEE 802.11an HT20 Mode / Band 3 / Chain 1 )





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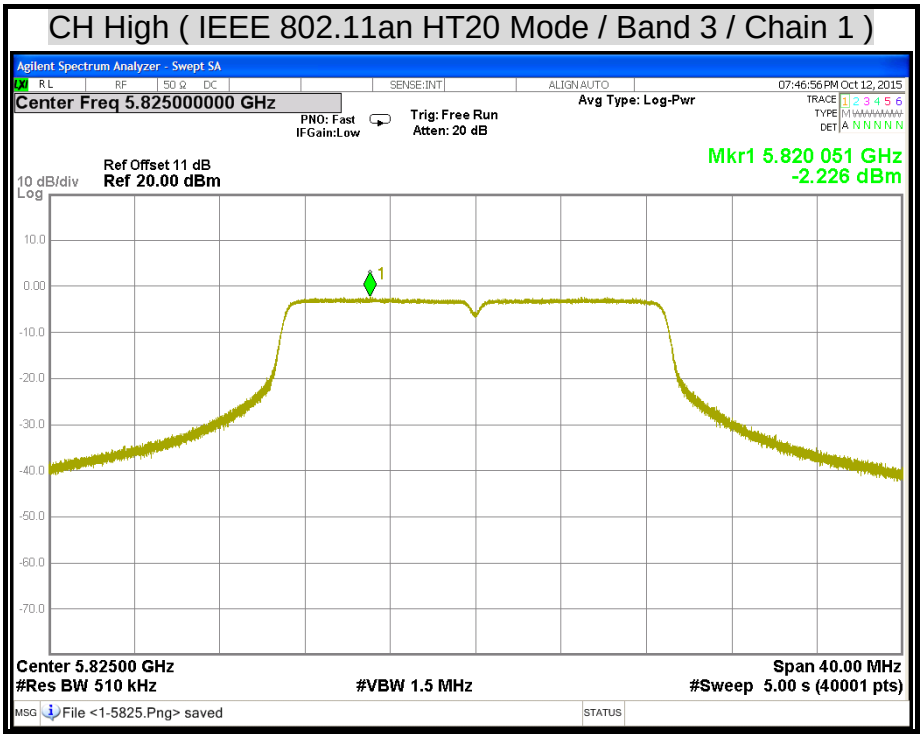
CH High ( IEEE 802.11an HT20 Mode / Band 3 / Chain 1 )



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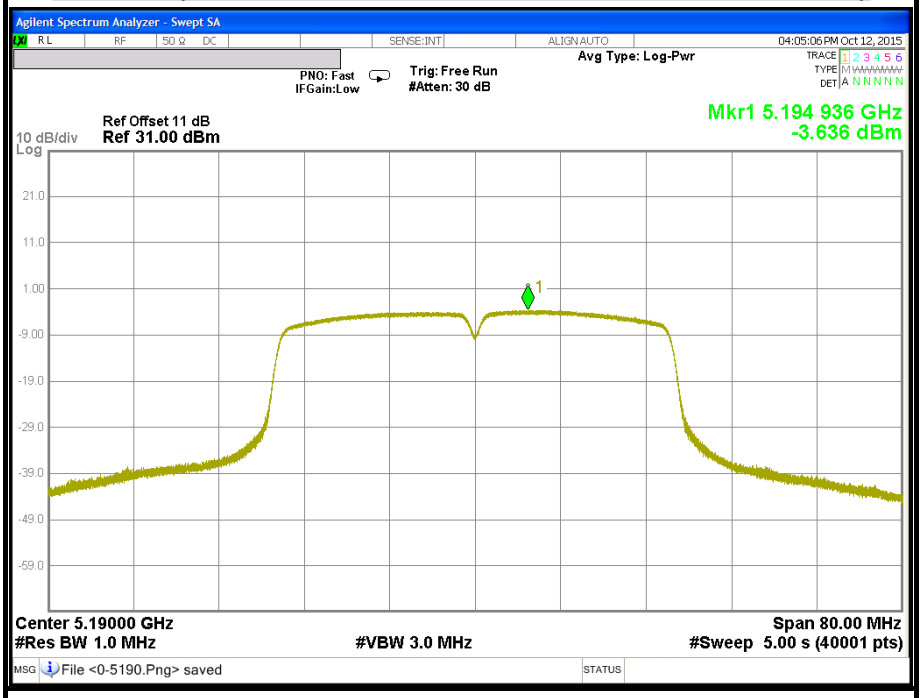
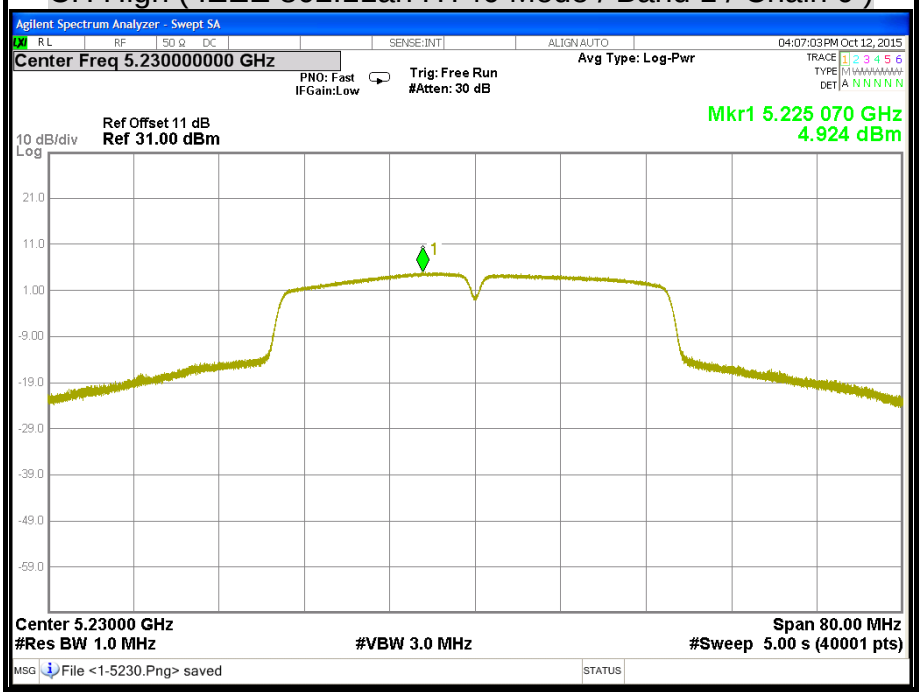
CH Low ( IEEE 802.11an HT40 Mode / Band 1 / Chain 0 )




CH High ( IEEE 802.11an HT40 Mode / Band 1 / Chain 0 )





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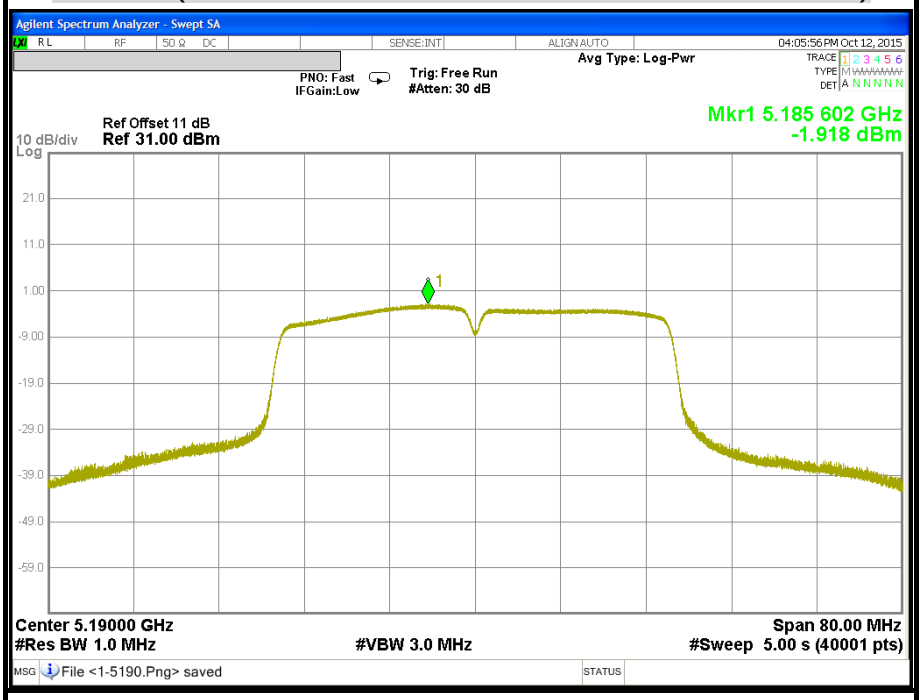
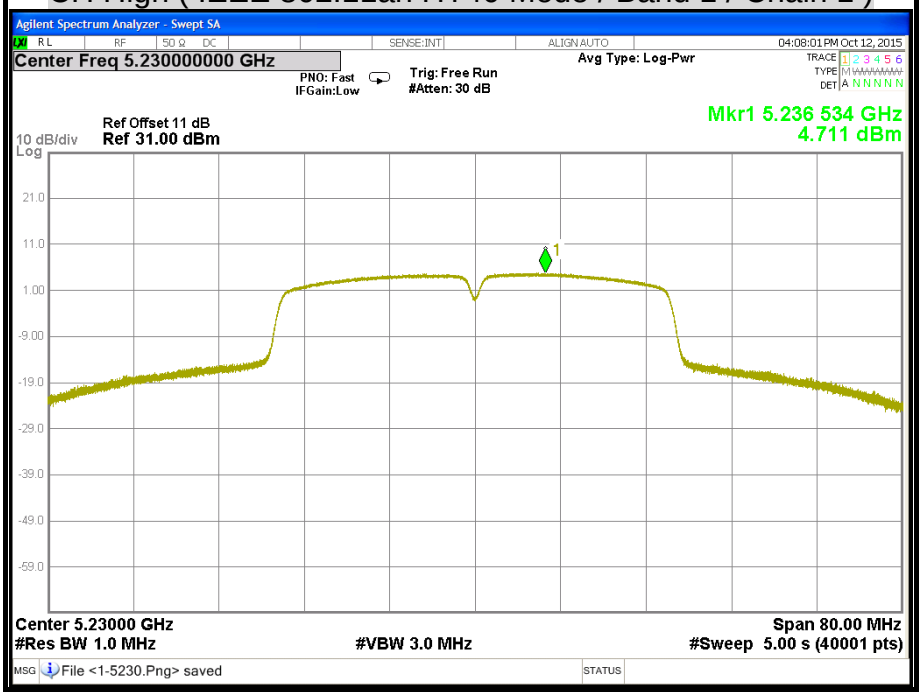
CH Low ( IEEE 802.11an HT40 Mode / Band 1 / Chain 1 )




CH High ( IEEE 802.11an HT40 Mode / Band 1 / Chain 1 )





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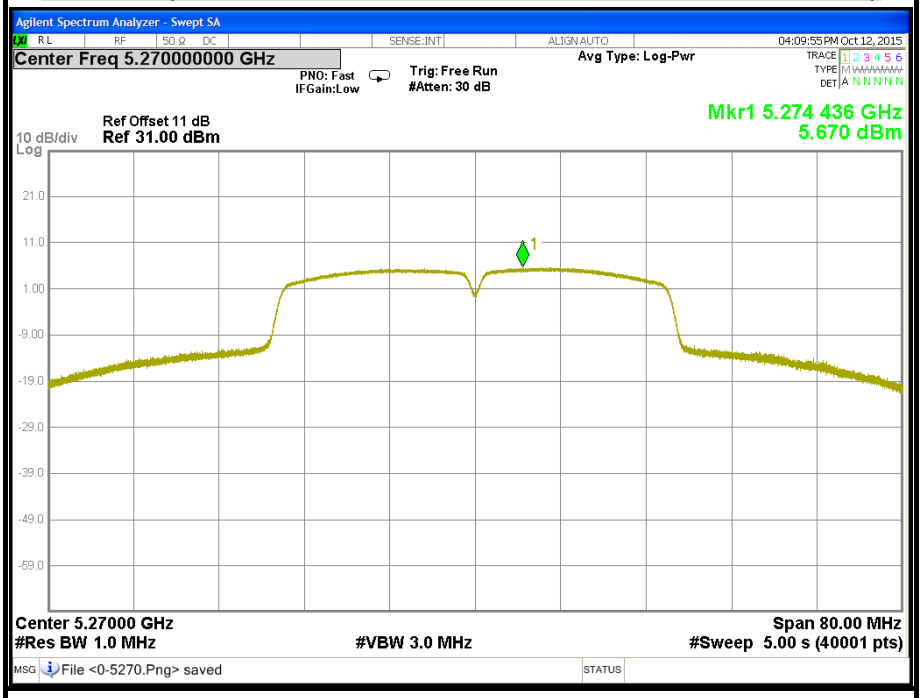
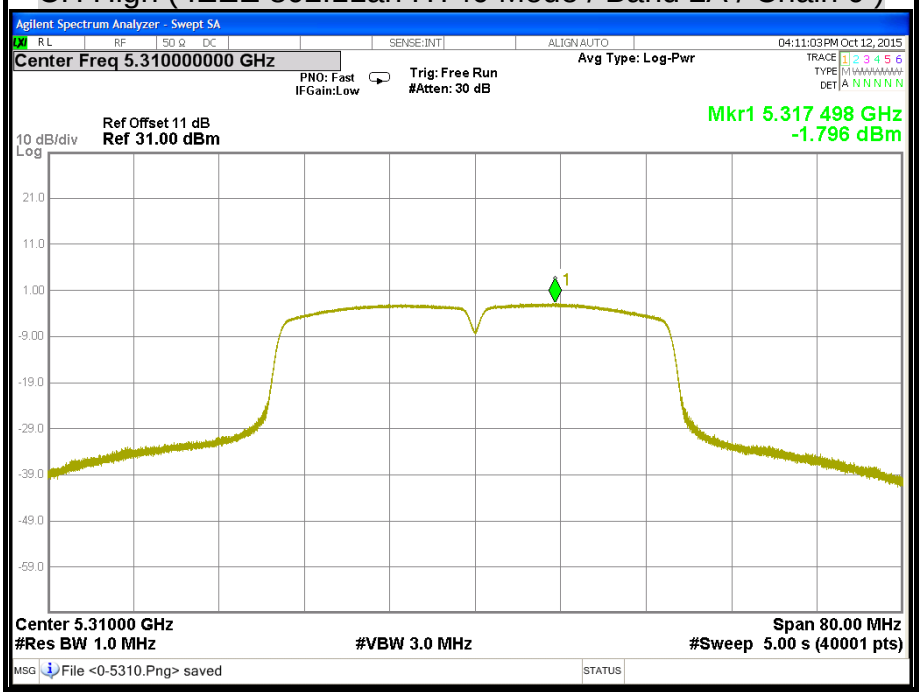
CH Low ( IEEE 802.11an HT40 Mode / Band 2A / Chain 0 )




CH High ( IEEE 802.11an HT40 Mode / Band 2A / Chain 0 )





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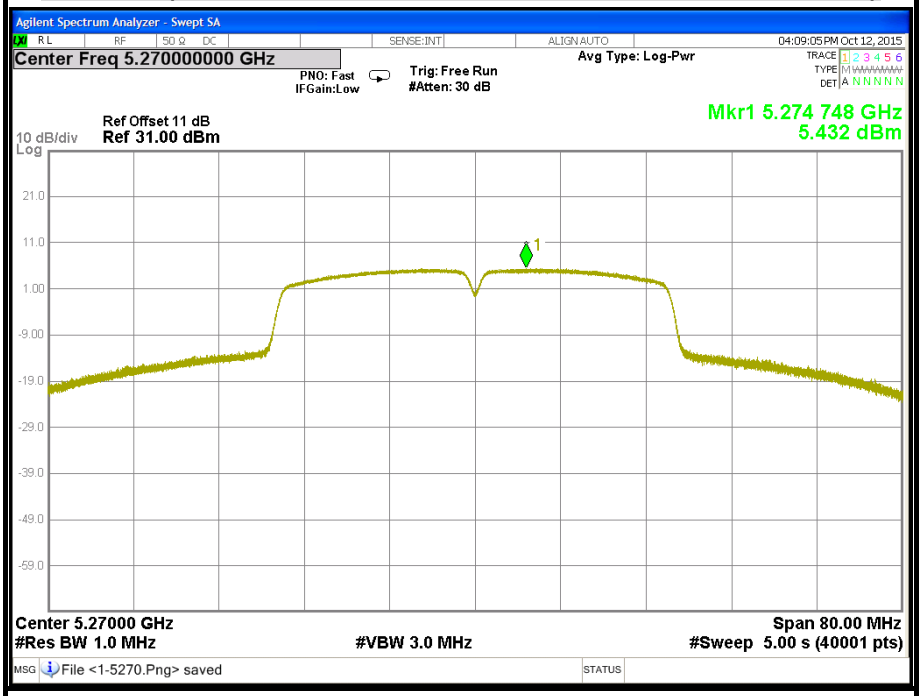
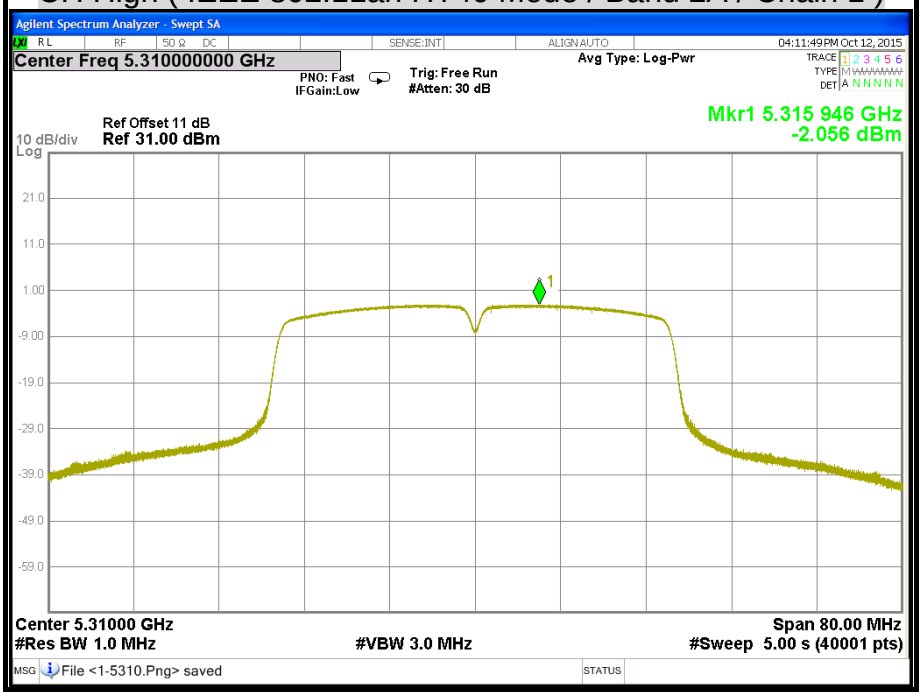
CH Low ( IEEE 802.11an HT40 Mode / Band 2A / Chain 1 )




CH High ( IEEE 802.11an HT40 Mode / Band 2A / Chain 1 )





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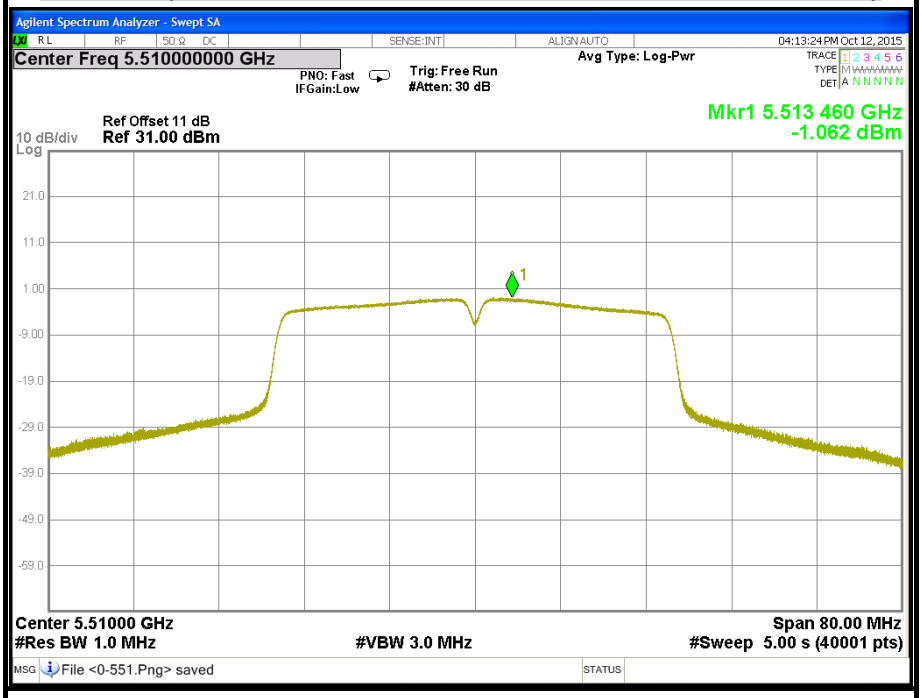
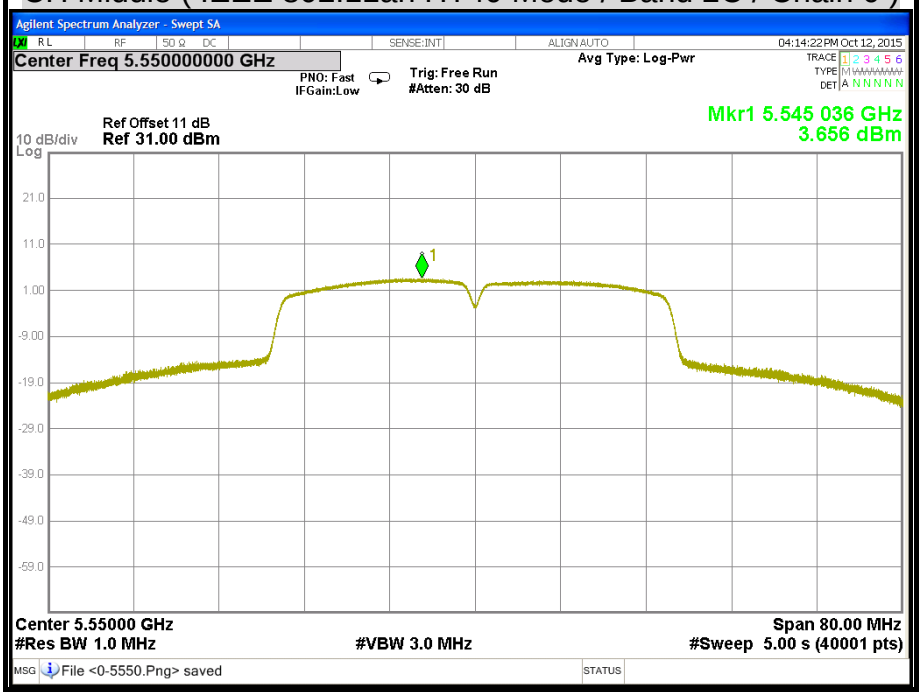
CH Low ( IEEE 802.11an HT40 Mode / Band 2C / Chain 0 )




CH Middle ( IEEE 802.11an HT40 Mode / Band 2C / Chain 0 )





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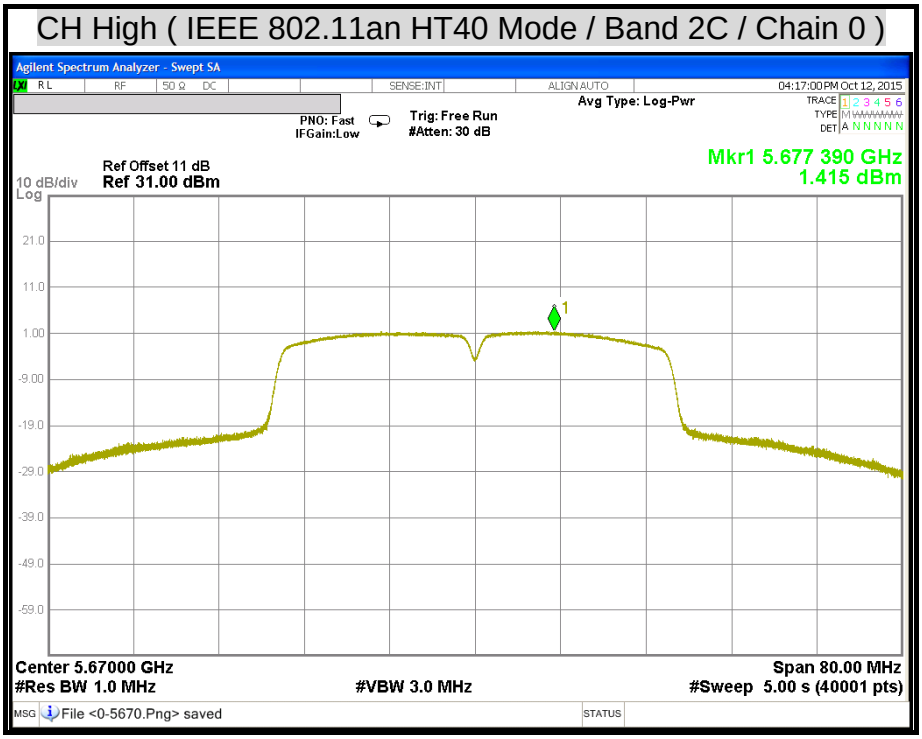
CH High ( IEEE 802.11an HT40 Mode / Band 2C / Chain 0 )



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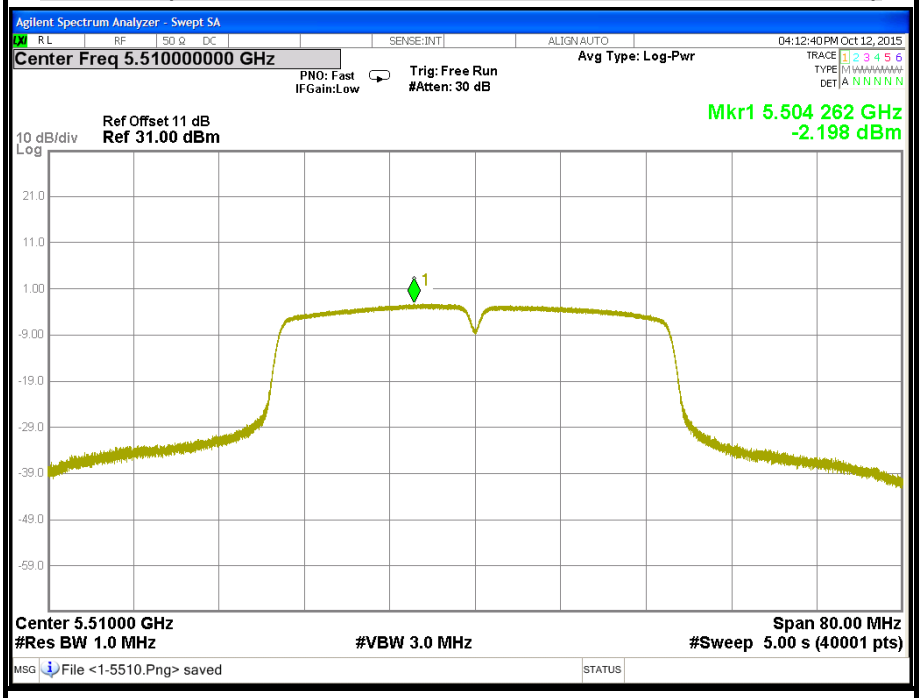
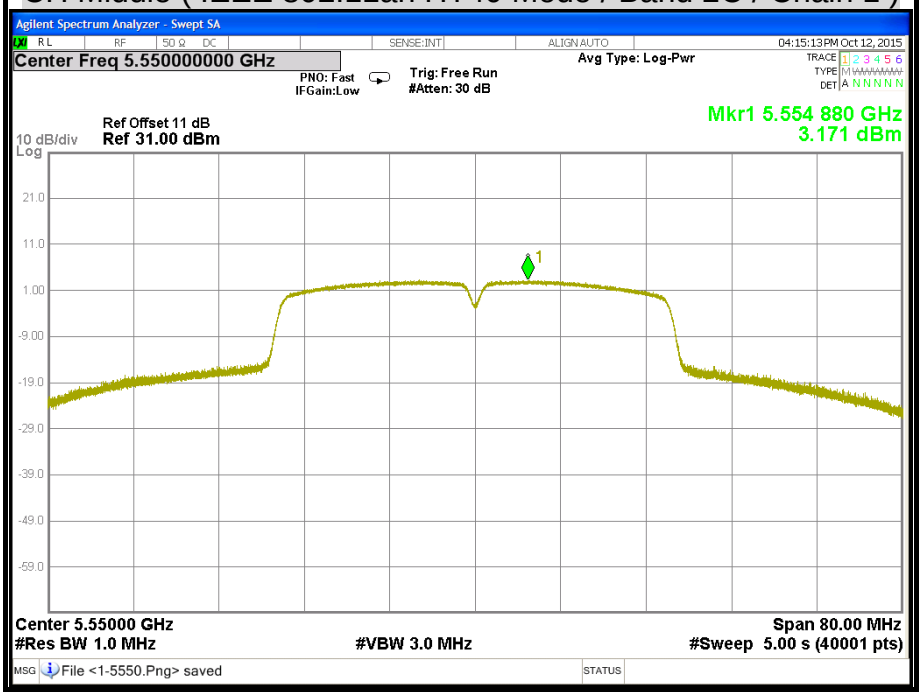
CH Low ( IEEE 802.11an HT40 Mode / Band 2C / Chain 1 )




CH Middle ( IEEE 802.11an HT40 Mode / Band 2C / Chain 1 )





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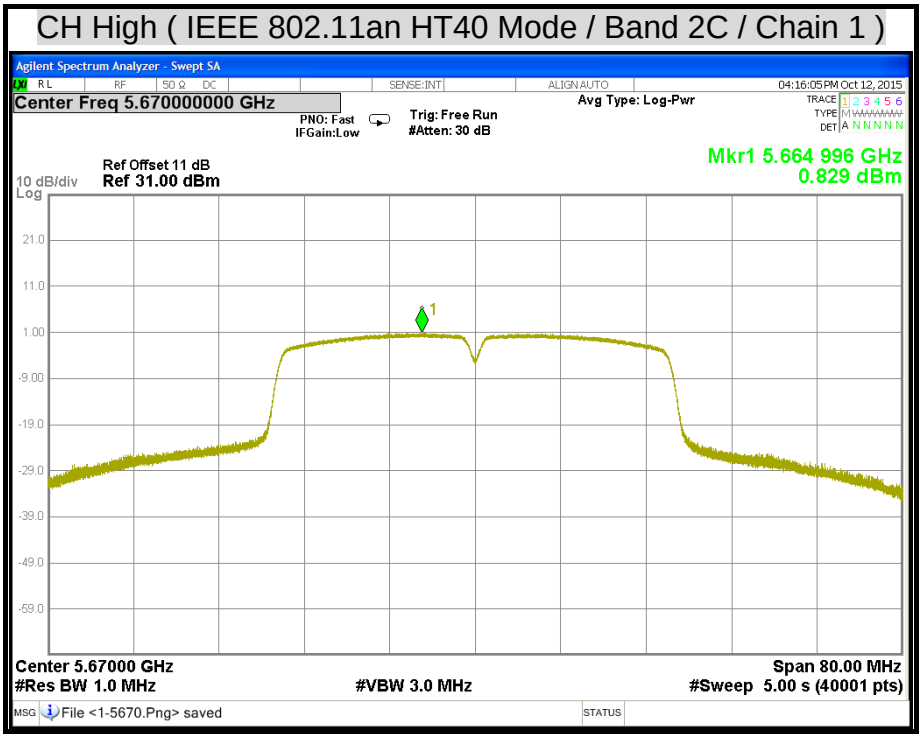
CH High ( IEEE 802.11an HT40 Mode / Band 2C / Chain 1 )





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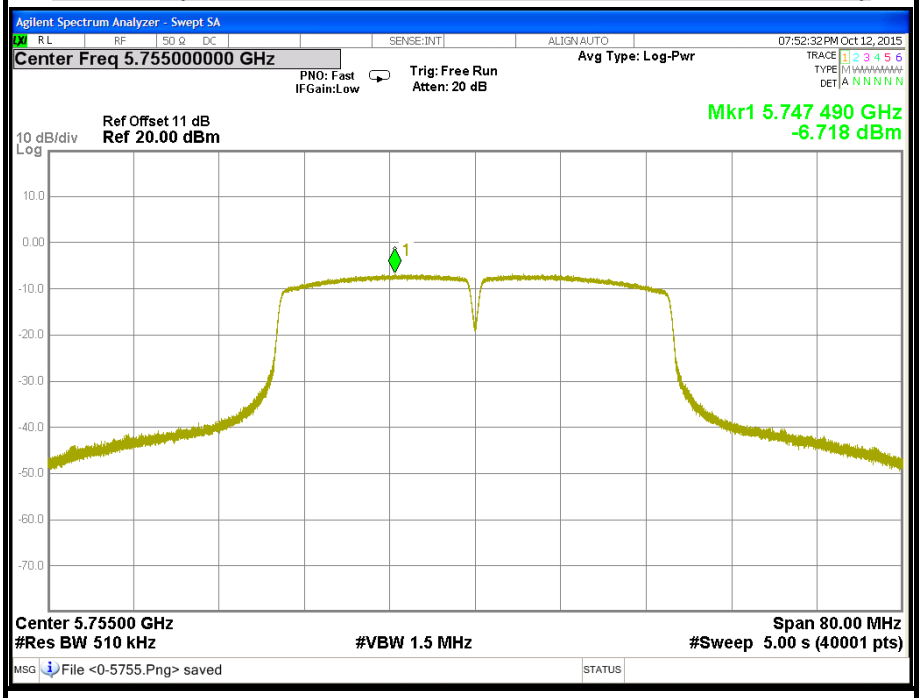
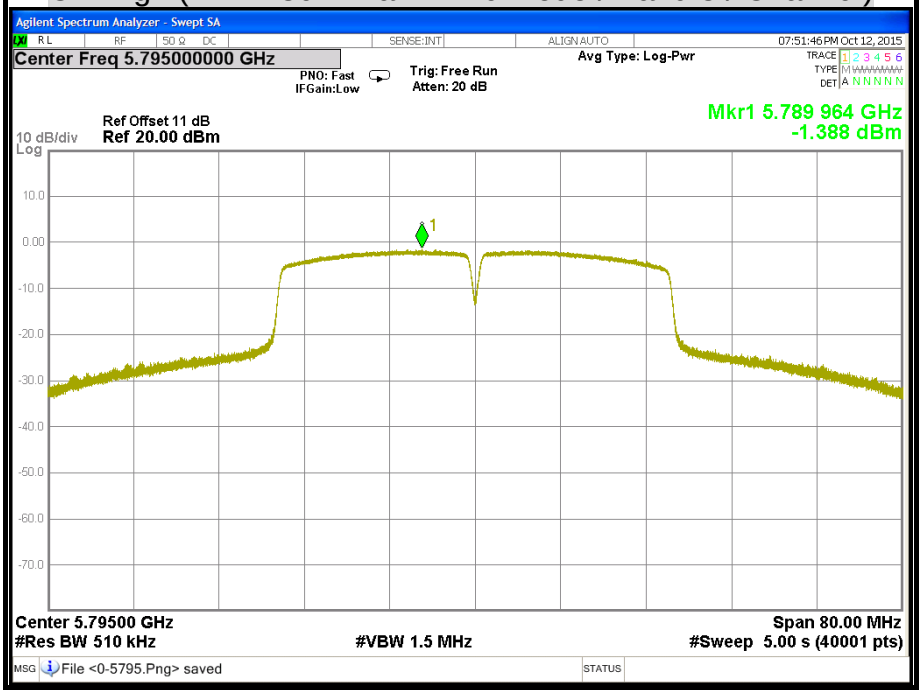
CH Low ( IEEE 802.11an HT40 Mode / Band 3 / Chain 0 )




CH High ( IEEE 802.11an HT40 Mode / Band 3 / Chain 0 )





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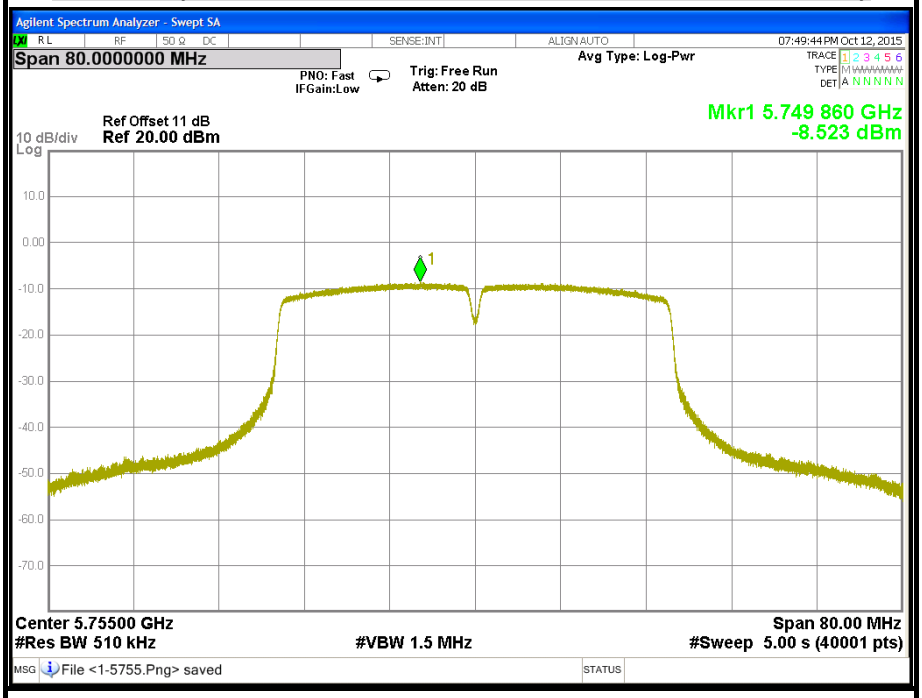
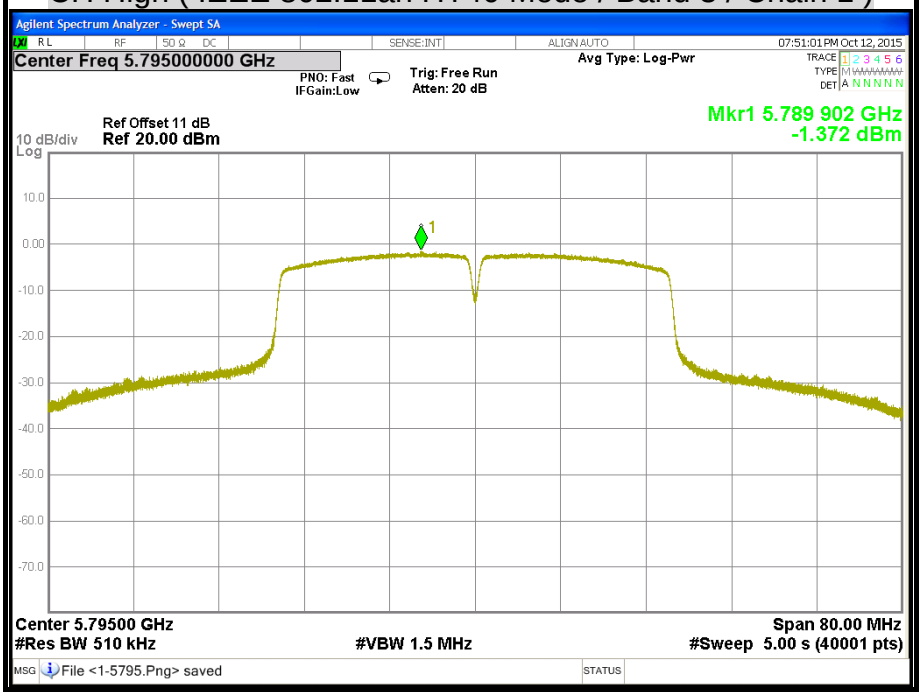
CH Low ( IEEE 802.11an HT40 Mode / Band 3 / Chain 1 )




CH High ( IEEE 802.11an HT40 Mode / Band 3 / Chain 1 )





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## 7.4 RADIATED EMISSION

**LIMITS**

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1]0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 -1710 | 10.6 -12.7 |
| 6.26775 - 6.26825 | 108 -121.94 | 1718.8 - 1722.2 | 13.25 -13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 – 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 -16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3338 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 -335.4 | 3600 - 4400 | ([2]) |
| 13.36 - 13.41 | | | |

***Remark:***
*1. [1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.*
*2. [2] Above 38.6*

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.


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(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009 – 0.490 | 2400/F(KHz) | 300 |
| 0.490 – 1.705 | 24000/F(KHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 - 88 | 100 ** | 3 |
| 88 - 216 | 150 ** | 3 |
| 216 - 960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

***Remark:*** ***Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

## TEST EQUIPMENT

**Radiated Emission / 966Chamber_B**

| Name of Equipment | Manufacture | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| Spectrum Analyzer | Agilent | E4446A | MY46180323 | 04/14/2016 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100221 | 04/22/2016 |
| Bi-log Antenna | TESEQ | CBL 6112D | 35403 | 08/04/2016 |
| Double-Ridged Waveguide Horn | ETS-LINDGREN | 3117 | 00078733 | 12/02/2015 |
| Horn Antenna | COM-POWER | AH-840 | 03077 | 12/17/2015 |
| Pre-Amplifier | Agilent | 8447D | 2944A10052 | 07/14/2016 |
| Pre-Amplifier | Agilent | 8449B | 3008A01916 | 07/14/2016 |
| LOOP Antenna | COM-POWER | AL-130 | 121060 | 05/24/2016 |

***Remark:*** *Each piece of equipment is scheduled for calibration once a year.*


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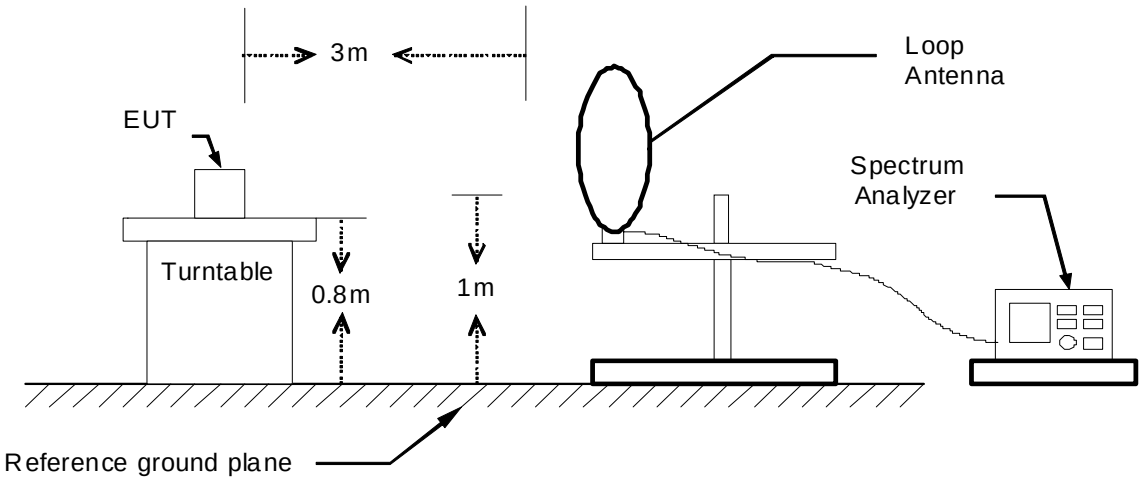
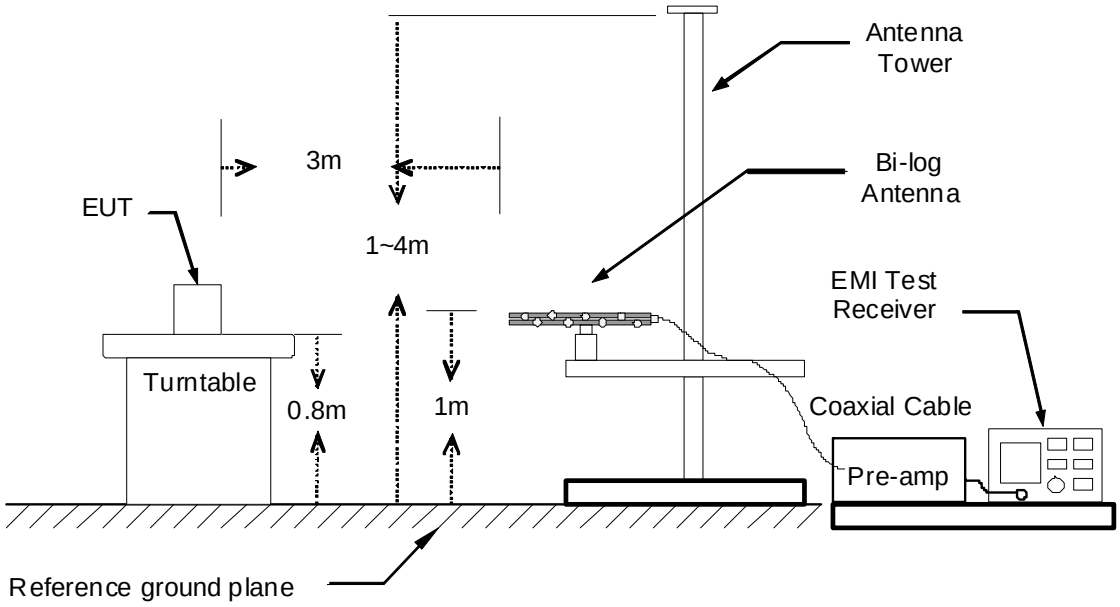
## TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission below 1GHz.

**9kHz ~ 30MHz**




**30MHz ~ 1GHz**





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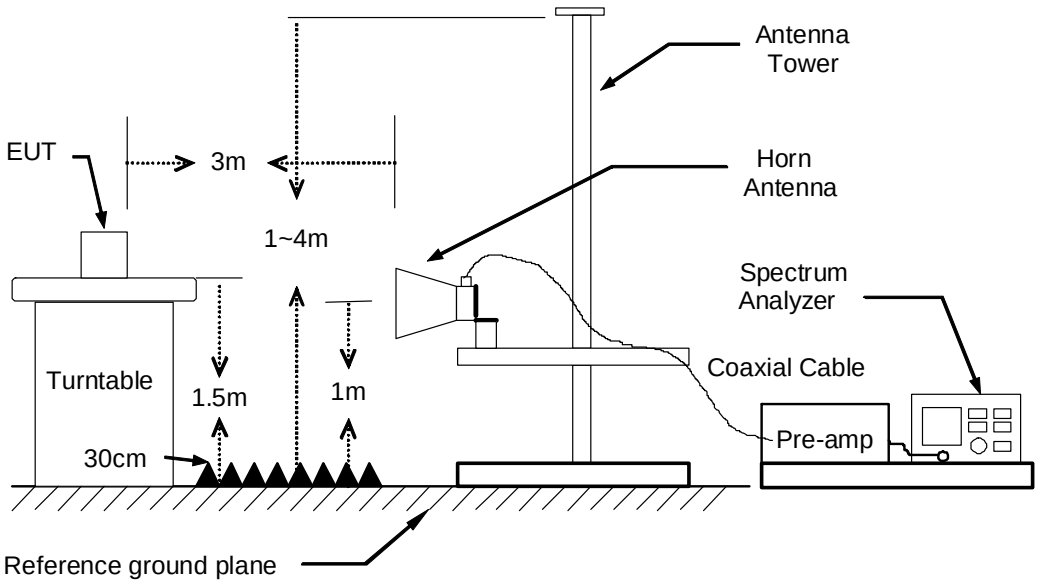
The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.




**TEST PROCEDURE**

1. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

***Remark :***

1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.*
3. *The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.*



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## TEST RESULTS

### Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

### Below 1 GHz (30MHz ~ 1GHz)

| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/03 |
| Test Mode | Mode 1 | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 128.94 | 42.32 | -14.47 | 27.85 | 43.50 | -15.65 | 117 | 200 | Peak |
| 257.95 | 47.13 | -11.95 | 35.18 | 46.00 | -10.82 | 45 | 100 | Peak |
| 312.27 | 48.92 | -11.20 | 37.72 | 46.00 | -8.28 | 50 | 100 | Peak |
| 385.99 | 46.96 | -9.42 | 37.54 | 46.00 | -8.46 | 347 | 100 | Peak |
| 734.22 | 44.11 | -5.23 | 38.88 | 46.00 | -7.12 | 297 | 100 | Peak |
| 792.42 | 42.70 | -4.32 | 38.38 | 46.00 | -7.62 | 295 | 100 | Peak |
| 978.66 | 41.77 | -2.06 | 39.71 | 54.00 | -14.29 | 82 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 39.70 | 47.07 | -13.65 | 33.42 | 40.00 | -6.58 | 85 | 100 | Peak |
| 126.03 | 43.99 | -14.38 | 29.61 | 43.50 | -13.89 | 164 | 100 | Peak |
| 256.98 | 44.83 | -12.04 | 32.79 | 46.00 | -13.21 | 90 | 100 | Peak |
| 312.27 | 42.89 | -11.20 | 31.69 | 46.00 | -14.31 | 48 | 100 | Peak |
| 729.37 | 47.41 | -5.30 | 42.11 | 46.00 | -3.89 | 46 | 100 | Peak |
| 746.83 | 42.20 | -5.04 | 37.16 | 46.00 | -8.84 | 41 | 100 | Peak |
| 979.63 | 38.64 | -2.04 | 36.60 | 54.00 | -17.40 | 340 | 100 | Peak |

***Remark:***

1. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
2. *Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)*
3. *Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)*
4. *Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).*



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**Above 1 GHz**

| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11a TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 43.61 | 3.15 | 46.76 | 74.00 | -27.24 | 94 | 200 | Peak |
| 3985.00 | 41.33 | 6.37 | 47.70 | 74.00 | -26.30 | 122 | 200 | Peak |
| 5350.00 | 39.80 | 9.46 | 49.26 | 74.00 | -24.74 | 44 | 100 | Peak |
| 6948.00 | 37.14 | 12.24 | 49.38 | 74.00 | -24.62 | 337 | 100 | Peak |
| 8544.00 | 35.92 | 12.72 | 48.64 | 74.00 | -25.36 | 168 | 200 | Peak |
| 10356.00 | 37.16 | 15.26 | 52.42 | 74.00 | -21.58 | 163 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3185.00 | 44.40 | 4.32 | 48.72 | 74.00 | -25.28 | 48 | 100 | Peak |
| 3810.00 | 42.38 | 5.74 | 48.12 | 74.00 | -25.88 | 290 | 100 | Peak |
| 5540.00 | 40.33 | 9.83 | 50.16 | 74.00 | -23.84 | 83 | 100 | Peak |
| 6924.00 | 36.92 | 12.21 | 49.13 | 74.00 | -24.87 | 344 | 200 | Peak |
| 8736.00 | 36.55 | 12.56 | 49.11 | 74.00 | -24.89 | 0 | 200 | Peak |
| 10104.00 | 36.32 | 14.82 | 51.14 | 74.00 | -22.86 | 270 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11a TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 44.89 | 3.15 | 48.04 | 74.00 | -25.96 | 38 | 100 | Peak |
| 5150.00 | 34.70 | 9.10 | 43.80 | 54.00 | -10.20 | 290 | 100 | Average |
| 5150.00 | 61.57 | 9.10 | 70.67 | 74.00 | -3.33 | 290 | 100 | Peak |
| 5430.00 | 40.31 | 9.61 | 49.92 | 74.00 | -24.08 | 208 | 200 | Peak |
| 6732.00 | 36.83 | 11.96 | 48.79 | 74.00 | -25.21 | 159 | 200 | Peak |
| 7884.00 | 37.29 | 12.14 | 49.43 | 74.00 | -24.57 | 109 | 200 | Peak |
| 10440.00 | 33.50 | 15.41 | 48.91 | 54.00 | -5.09 | 114 | 200 | Average |
| 10440.00 | 43.39 | 15.41 | 58.80 | 74.00 | -15.20 | 114 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 43.94 | 4.31 | 48.25 | 74.00 | -25.75 | 51 | 100 | Peak |
| 5150.00 | 33.56 | 9.10 | 42.66 | 54.00 | -11.34 | 278 | 100 | Average |
| 5150.00 | 58.09 | 9.10 | 67.19 | 74.00 | -6.81 | 278 | 100 | Peak |
| 5390.00 | 40.02 | 9.54 | 49.56 | 74.00 | -24.44 | 127 | 200 | Peak |
| 6852.00 | 37.14 | 12.11 | 49.25 | 74.00 | -24.75 | 360 | 100 | Peak |
| 8556.00 | 36.13 | 12.71 | 48.84 | 74.00 | -25.16 | 360 | 100 | Peak |
| 10440.00 | 31.40 | 15.41 | 46.81 | 54.00 | -7.19 | 321 | 100 | Average |
| 10440.00 | 41.22 | 15.41 | 56.63 | 74.00 | -17.37 | 321 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11a TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3970.00 | 42.26 | 6.31 | 48.57 | 74.00 | -25.43 | 54 | 100 | Peak |
| 5150.00 | 32.20 | 9.10 | 41.30 | 54.00 | -12.70 | 304 | 100 | Average |
| 5150.00 | 46.72 | 9.10 | 55.82 | 74.00 | -18.18 | 304 | 100 | Peak |
| 5855.00 | 38.92 | 10.54 | 49.46 | 74.00 | -24.54 | 250 | 100 | Peak |
| 6996.00 | 36.62 | 12.30 | 48.92 | 74.00 | -25.08 | 315 | 200 | Peak |
| 8220.00 | 36.85 | 12.58 | 49.43 | 74.00 | -24.57 | 143 | 100 | Peak |
| 10488.00 | 32.89 | 15.49 | 48.38 | 54.00 | -5.62 | 134 | 100 | Average |
| 10488.00 | 45.71 | 15.49 | 61.20 | 74.00 | -12.80 | 134 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 44.42 | 4.31 | 48.73 | 74.00 | -25.27 | 60 | 100 | Peak |
| 5150.00 | 31.30 | 9.10 | 40.40 | 54.00 | -13.60 | 112 | 100 | Average |
| 5150.00 | 45.49 | 9.10 | 54.59 | 74.00 | -19.41 | 112 | 100 | Peak |
| 5440.00 | 40.59 | 9.63 | 50.22 | 74.00 | -23.78 | 285 | 100 | Peak |
| 6636.00 | 37.35 | 11.83 | 49.18 | 74.00 | -24.82 | 261 | 200 | Peak |
| 8688.00 | 36.41 | 12.60 | 49.01 | 74.00 | -24.99 | 98 | 200 | Peak |
| 10476.00 | 29.80 | 15.47 | 45.27 | 54.00 | -8.73 | 102 | 100 | Average |
| 10476.00 | 39.76 | 15.47 | 55.23 | 74.00 | -18.77 | 102 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11an HT20 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3085.00 | 42.51 | 4.22 | 46.73 | 74.00 | -27.27 | 217 | 200 | Peak |
| 4055.00 | 41.01 | 6.56 | 47.57 | 74.00 | -26.43 | 168 | 100 | Peak |
| 5430.00 | 40.15 | 9.61 | 49.76 | 74.00 | -24.24 | 302 | 100 | Peak |
| 6288.00 | 37.36 | 11.61 | 48.97 | 74.00 | -25.03 | 251 | 200 | Peak |
| 8532.00 | 36.56 | 12.73 | 49.29 | 74.00 | -24.71 | 219 | 200 | Peak |
| 10548.00 | 35.97 | 15.77 | 51.74 | 74.00 | -22.26 | 267 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3130.00 | 44.97 | 4.26 | 49.23 | 74.00 | -24.77 | 43 | 100 | Peak |
| 4470.00 | 41.87 | 7.58 | 49.45 | 74.00 | -24.55 | 109 | 100 | Peak |
| 5460.00 | 40.72 | 9.67 | 50.39 | 74.00 | -23.61 | 81 | 100 | Peak |
| 7116.00 | 37.06 | 12.04 | 49.10 | 74.00 | -24.90 | 288 | 200 | Peak |
| 8628.00 | 36.83 | 12.65 | 49.48 | 74.00 | -24.52 | 238 | 200 | Peak |
| 10752.00 | 35.33 | 16.89 | 52.22 | 74.00 | -21.78 | 163 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11an HT20 TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.30 | 3.15 | 48.45 | 74.00 | -25.55 | 72 | 100 | Peak |
| 5150.00 | 37.40 | 9.10 | 46.50 | 54.00 | -7.50 | 306 | 100 | Average |
| 5150.00 | 64.18 | 9.10 | 73.28 | 74.00 | -0.72 | 306 | 100 | Peak |
| 5545.00 | 40.53 | 9.84 | 50.37 | 74.00 | -23.63 | 194 | 200 | Peak |
| 6972.00 | 37.25 | 12.27 | 49.52 | 74.00 | -24.48 | 31 | 200 | Peak |
| 9876.00 | 37.54 | 14.47 | 52.01 | 74.00 | -21.99 | 176 | 100 | Peak |
| 10440.00 | 31.92 | 15.41 | 47.33 | 54.00 | -6.67 | 128 | 200 | Average |
| 10440.00 | 41.88 | 15.41 | 57.29 | 74.00 | -16.71 | 128 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 44.58 | 4.31 | 48.89 | 74.00 | -25.11 | 47 | 100 | Peak |
| 5150.00 | 34.34 | 9.10 | 43.44 | 54.00 | -10.56 | 106 | 200 | Average |
| 5150.00 | 59.44 | 9.10 | 68.54 | 74.00 | -5.46 | 106 | 200 | Peak |
| 5770.00 | 39.25 | 10.35 | 49.60 | 74.00 | -24.40 | 315 | 200 | Peak |
| 7224.00 | 37.58 | 11.79 | 49.37 | 74.00 | -24.63 | 30 | 200 | Peak |
| 8568.00 | 37.08 | 12.70 | 49.78 | 74.00 | -24.22 | 250 | 200 | Peak |
| 10440.00 | 31.15 | 15.41 | 46.56 | 54.00 | -7.44 | 3 | 200 | Average |
| 10440.00 | 41.28 | 15.41 | 56.69 | 74.00 | -17.31 | 3 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11an HT20 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.94 | 3.15 | 49.09 | 74.00 | -24.91 | 52 | 200 | Peak |
| 5150.00 | 43.49 | 9.10 | 52.59 | 74.00 | -21.41 | 294 | 100 | Peak |
| 5515.00 | 40.31 | 9.77 | 50.08 | 74.00 | -23.92 | 177 | 200 | Peak |
| 6996.00 | 36.70 | 12.30 | 49.00 | 74.00 | -25.00 | 252 | 200 | Peak |
| 8544.00 | 36.79 | 12.72 | 49.51 | 74.00 | -24.49 | 330 | 200 | Peak |
| 10476.00 | 32.30 | 15.47 | 47.77 | 54.00 | -6.23 | 133 | 100 | Average |
| 10476.00 | 42.26 | 15.47 | 57.73 | 74.00 | -16.27 | 133 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.39 | 3.15 | 49.54 | 74.00 | -24.46 | 336 | 200 | Peak |
| 5150.00 | 29.80 | 9.10 | 38.90 | 54.00 | -15.10 | 197 | 200 | Average |
| 5150.00 | 45.33 | 9.10 | 54.43 | 74.00 | -19.57 | 197 | 200 | Peak |
| 5435.00 | 39.96 | 9.62 | 49.58 | 74.00 | -24.42 | 322 | 200 | Peak |
| 7176.00 | 37.43 | 11.91 | 49.34 | 74.00 | -24.66 | 138 | 200 | Peak |
| 8472.00 | 36.93 | 12.74 | 49.67 | 74.00 | -24.33 | 18 | 200 | Peak |
| 10488.00 | 29.85 | 15.49 | 45.34 | 54.00 | -8.66 | 136 | 100 | Average |
| 10488.00 | 40.20 | 15.49 | 55.69 | 74.00 | -18.31 | 136 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11an HT40 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 44.58 | 3.15 | 47.73 | 74.00 | -26.27 | 71 | 100 | Peak |
| 3910.00 | 41.71 | 6.10 | 47.81 | 74.00 | -26.19 | 305 | 200 | Peak |
| 5515.00 | 40.05 | 9.77 | 49.82 | 74.00 | -24.18 | 250 | 100 | Peak |
| 6156.00 | 37.42 | 11.58 | 49.00 | 74.00 | -25.00 | 181 | 100 | Peak |
| 7956.00 | 36.86 | 12.33 | 49.19 | 74.00 | -24.81 | 15 | 100 | Peak |
| 10428.00 | 36.24 | 15.38 | 51.62 | 74.00 | -22.38 | 4 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.17 | 3.15 | 49.32 | 74.00 | -24.68 | 334 | 100 | Peak |
| 3180.00 | 46.18 | 4.31 | 50.49 | 74.00 | -23.51 | 45 | 100 | Peak |
| 5475.00 | 42.11 | 9.69 | 51.80 | 74.00 | -22.20 | 270 | 100 | Peak |
| 6060.00 | 37.40 | 11.56 | 48.96 | 74.00 | -25.04 | 65 | 100 | Peak |
| 8532.00 | 37.12 | 12.73 | 49.85 | 74.00 | -24.15 | 360 | 100 | Peak |
| 10608.00 | 35.91 | 16.10 | 52.01 | 74.00 | -21.99 | 332 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 1/ IEEE 802.11an HT40 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 44.58 | 3.15 | 47.73 | 74.00 | -26.27 | 70 | 100 | Peak |
| 5150.00 | 41.96 | 9.10 | 51.06 | 54.00 | -2.94 | 288 | 100 | Average |
| 5150.00 | 61.72 | 9.10 | 70.82 | 74.00 | -3.18 | 288 | 100 | Peak |
| 5350.00 | 34.80 | 9.46 | 44.26 | 54.00 | -9.74 | 299 | 100 | Average |
| 5350.00 | 49.29 | 9.46 | 58.75 | 74.00 | -15.25 | 299 | 100 | Peak |
| 6132.00 | 36.27 | 11.58 | 47.85 | 74.00 | -26.15 | 167 | 100 | Peak |
| 8064.00 | 37.16 | 12.48 | 49.64 | 74.00 | -24.36 | 183 | 200 | Peak |
| 10476.00 | 29.80 | 15.47 | 45.27 | 54.00 | -8.73 | 149 | 100 | Average |
| 10476.00 | 40.00 | 15.47 | 55.47 | 74.00 | -18.53 | 149 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 45.82 | 4.31 | 50.13 | 74.00 | -23.87 | 49 | 100 | Peak |
| 5150.00 | 42.73 | 9.10 | 51.83 | 54.00 | -2.17 | 118 | 200 | Average |
| 5150.00 | 60.59 | 9.10 | 69.69 | 74.00 | -4.31 | 118 | 200 | Peak |
| 5350.00 | 30.70 | 9.46 | 40.16 | 54.00 | -13.84 | 60 | 100 | Average |
| 5350.00 | 45.12 | 9.46 | 54.58 | 74.00 | -19.42 | 60 | 100 | Peak |
| 6036.00 | 37.03 | 11.56 | 48.59 | 74.00 | -25.41 | 181 | 100 | Peak |
| 7896.00 | 37.46 | 12.17 | 49.63 | 74.00 | -24.37 | 66 | 100 | Peak |
| 10464.00 | 30.10 | 15.45 | 45.55 | 54.00 | -8.45 | 98 | 100 | Average |
| 10464.00 | 40.20 | 15.45 | 55.65 | 74.00 | -18.35 | 98 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11a TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 44.14 | 3.15 | 47.29 | 74.00 | -26.71 | 50 | 100 | Peak |
| 4855.00 | 41.61 | 8.48 | 50.09 | 74.00 | -23.91 | 165 | 200 | Peak |
| 5350.00 | 42.60 | 9.46 | 52.06 | 74.00 | -21.94 | 303 | 100 | Peak |
| 6972.00 | 36.66 | 12.27 | 48.93 | 74.00 | -25.07 | 32 | 200 | Peak |
| 9420.00 | 37.42 | 13.68 | 51.10 | 74.00 | -22.90 | 20 | 100 | Peak |
| 10512.00 | 32.90 | 15.58 | 48.48 | 54.00 | -5.52 | 125 | 200 | Average |
| 10512.00 | 42.84 | 15.58 | 58.42 | 74.00 | -15.58 | 125 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 45.60 | 4.31 | 49.91 | 74.00 | -24.09 | 229 | 100 | Peak |
| 4735.00 | 42.00 | 8.20 | 50.20 | 74.00 | -23.80 | 245 | 100 | Peak |
| 5350.00 | 42.00 | 9.46 | 51.46 | 74.00 | -22.54 | 81 | 100 | Peak |
| 7032.00 | 36.82 | 12.24 | 49.06 | 74.00 | -24.94 | 326 | 200 | Peak |
| 10524.00 | 29.90 | 15.64 | 45.54 | 54.00 | -8.46 | 336 | 100 | Average |
| 10524.00 | 39.82 | 15.64 | 55.46 | 74.00 | -18.54 | 336 | 100 | Peak |
| 15780.00 | 28.10 | 23.24 | 51.34 | 54.00 | -2.66 | 69 | 100 | Average |
| 15780.00 | 36.36 | 23.24 | 59.60 | 74.00 | -14.40 | 69 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11a TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3520.00 | 43.44 | 4.69 | 48.13 | 74.00 | -25.87 | 91 | 200 | Peak |
| 4590.00 | 40.96 | 7.86 | 48.82 | 74.00 | -25.18 | 84 | 200 | Peak |
| 5350.00 | 31.80 | 9.46 | 41.26 | 54.00 | -12.74 | 61 | 200 | Average |
| 5350.00 | 47.77 | 9.46 | 57.23 | 74.00 | -16.77 | 61 | 200 | Peak |
| 7200.00 | 37.85 | 11.85 | 49.70 | 74.00 | -24.30 | 12 | 200 | Peak |
| 10560.00 | 32.90 | 15.84 | 48.74 | 54.00 | -5.26 | 181 | 100 | Average |
| 10560.00 | 42.82 | 15.84 | 58.66 | 74.00 | -15.34 | 181 | 100 | Peak |
| 15840.00 | 28.30 | 23.48 | 51.78 | 54.00 | -2.22 | 146 | 100 | Average |
| 15840.00 | 37.07 | 23.48 | 60.55 | 74.00 | -13.45 | 146 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 45.09 | 4.31 | 49.40 | 74.00 | -24.60 | 47 | 100 | Peak |
| 4785.00 | 40.64 | 8.32 | 48.96 | 74.00 | -25.04 | 83 | 100 | Peak |
| 5350.00 | 34.92 | 9.46 | 44.38 | 54.00 | -9.62 | 108 | 100 | Average |
| 5350.00 | 59.32 | 9.46 | 68.78 | 74.00 | -5.22 | 108 | 100 | Peak |
| 6924.00 | 36.98 | 12.21 | 49.19 | 74.00 | -24.81 | 57 | 100 | Peak |
| 10560.00 | 32.70 | 15.84 | 48.54 | 54.00 | -5.46 | 338 | 100 | Average |
| 10560.00 | 42.59 | 15.84 | 58.43 | 74.00 | -15.57 | 338 | 100 | Peak |
| 15852.00 | 29.52 | 23.53 | 53.05 | 54.00 | -0.95 | 45 | 200 | Average |
| 15852.00 | 38.15 | 23.53 | 61.68 | 74.00 | -12.32 | 45 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11a TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3260.00 | 43.20 | 4.39 | 47.59 | 74.00 | -26.41 | 254 | 200 | Peak |
| 4780.00 | 41.04 | 8.31 | 49.35 | 74.00 | -24.65 | 237 | 100 | Peak |
| 5485.00 | 40.61 | 9.71 | 50.32 | 74.00 | -23.68 | 301 | 100 | Peak |
| 7248.00 | 37.11 | 11.74 | 48.85 | 74.00 | -25.15 | 180 | 200 | Peak |
| 8568.00 | 36.47 | 12.70 | 49.17 | 74.00 | -24.83 | 324 | 100 | Peak |
| 9696.00 | 36.79 | 14.21 | 51.00 | 74.00 | -23.00 | 140 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 45.32 | 4.31 | 49.63 | 74.00 | -24.37 | 229 | 100 | Peak |
| 4705.00 | 41.32 | 8.13 | 49.45 | 74.00 | -24.55 | 134 | 100 | Peak |
| 5495.00 | 40.48 | 9.73 | 50.21 | 74.00 | -23.79 | 109 | 100 | Peak |
| 6564.00 | 37.11 | 11.73 | 48.84 | 74.00 | -25.16 | 2 | 200 | Peak |
| 8700.00 | 36.68 | 12.59 | 49.27 | 74.00 | -24.73 | 135 | 200 | Peak |
| 10356.00 | 36.63 | 15.26 | 51.89 | 74.00 | -22.11 | 134 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11an HT20 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.05 | 3.15 | 50.20 | 74.00 | -23.80 | 69 | 100 | Peak |
| 4630.00 | 41.12 | 7.95 | 49.07 | 74.00 | -24.93 | 208 | 100 | Peak |
| 5350.00 | 29.60 | 9.46 | 39.06 | 54.00 | -14.94 | 302 | 100 | Average |
| 5350.00 | 44.70 | 9.46 | 54.16 | 74.00 | -19.84 | 302 | 100 | Peak |
| 6684.00 | 36.78 | 11.89 | 48.67 | 74.00 | -25.33 | 333 | 200 | Peak |
| 7944.00 | 36.23 | 12.30 | 48.53 | 74.00 | -25.47 | 271 | 100 | Peak |
| 10512.00 | 31.70 | 15.58 | 47.28 | 54.00 | -6.72 | 124 | 200 | Average |
| 10512.00 | 41.69 | 15.58 | 57.27 | 74.00 | -16.73 | 124 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 44.19 | 4.31 | 48.50 | 74.00 | -25.50 | 48 | 100 | Peak |
| 4745.00 | 41.11 | 8.22 | 49.33 | 74.00 | -24.67 | 275 | 200 | Peak |
| 5350.00 | 30.20 | 9.46 | 39.66 | 54.00 | -14.34 | 64 | 100 | Average |
| 5350.00 | 44.40 | 9.46 | 53.86 | 74.00 | -20.14 | 64 | 100 | Peak |
| 6804.00 | 36.86 | 12.05 | 48.91 | 74.00 | -25.09 | 103 | 100 | Peak |
| 10524.00 | 30.20 | 15.64 | 45.84 | 54.00 | -8.16 | 126 | 100 | Average |
| 10524.00 | 40.10 | 15.64 | 55.74 | 74.00 | -18.26 | 126 | 100 | Peak |
| 15780.00 | 28.50 | 23.24 | 51.74 | 54.00 | -2.26 | 50 | 100 | Average |
| 15780.00 | 38.43 | 23.24 | 61.67 | 74.00 | -12.33 | 50 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11an HT20 TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.45 | 3.15 | 48.60 | 74.00 | -25.40 | 65 | 100 | Peak |
| 4855.00 | 40.55 | 8.48 | 49.03 | 74.00 | -24.97 | 276 | 200 | Peak |
| 5355.00 | 33.20 | 9.47 | 42.67 | 54.00 | -11.33 | 318 | 100 | Average |
| 5355.00 | 47.76 | 9.47 | 57.23 | 74.00 | -16.77 | 318 | 100 | Peak |
| 6144.00 | 37.41 | 11.58 | 48.99 | 74.00 | -25.01 | 170 | 200 | Peak |
| 8400.00 | 36.52 | 12.70 | 49.22 | 74.00 | -24.78 | 334 | 200 | Peak |
| 10572.00 | 29.89 | 15.90 | 45.79 | 54.00 | -8.21 | 125 | 200 | Average |
| 10572.00 | 39.95 | 15.90 | 55.85 | 74.00 | -18.15 | 125 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 45.91 | 4.31 | 50.22 | 74.00 | -23.78 | 46 | 100 | Peak |
| 4775.00 | 41.36 | 8.29 | 49.65 | 74.00 | -24.35 | 23 | 200 | Peak |
| 5360.00 | 33.30 | 9.48 | 42.78 | 54.00 | -11.22 | 221 | 200 | Average |
| 5360.00 | 58.47 | 9.48 | 67.95 | 74.00 | -6.05 | 221 | 200 | Peak |
| 7416.00 | 37.74 | 11.35 | 49.09 | 74.00 | -24.91 | 20 | 100 | Peak |
| 10560.00 | 31.60 | 15.84 | 47.44 | 54.00 | -6.56 | 130 | 100 | Average |
| 10560.00 | 41.46 | 15.84 | 57.30 | 74.00 | -16.70 | 130 | 100 | Peak |
| 15852.00 | 29.87 | 23.53 | 53.40 | 54.00 | -0.60 | 57 | 100 | Average |
| 15852.00 | 38.29 | 23.53 | 61.82 | 74.00 | -12.18 | 57 | 100 | Peak |

***Remark:***

*1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
*2. Average test would be performed if the peak result were greater than the average limit.*
*3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
*4. Result = Reading + Correction Factor*
*Margin = Result – Limit*
*Remark Peak = Result(PK) – Limit(PK)*
*Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11an HT20 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.16 | 3.15 | 48.31 | 74.00 | -25.69 | 74 | 100 | Peak |
| 5000.00 | 40.36 | 8.82 | 49.18 | 74.00 | -24.82 | 297 | 100 | Peak |
| 5550.00 | 39.86 | 9.85 | 49.71 | 74.00 | -24.29 | 79 | 200 | Peak |
| 7152.00 | 37.89 | 11.96 | 49.85 | 74.00 | -24.15 | 136 | 100 | Peak |
| 8532.00 | 37.35 | 12.73 | 50.08 | 74.00 | -23.92 | 66 | 100 | Peak |
| 10728.00 | 35.60 | 16.76 | 52.36 | 74.00 | -21.64 | 306 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.27 | 3.15 | 50.42 | 74.00 | -23.58 | 343 | 100 | Peak |
| 4675.00 | 41.81 | 8.06 | 49.87 | 74.00 | -24.13 | 83 | 200 | Peak |
| 5465.00 | 41.15 | 9.68 | 50.83 | 74.00 | -23.17 | 88 | 100 | Peak |
| 6936.00 | 36.73 | 12.23 | 48.96 | 74.00 | -25.04 | 208 | 100 | Peak |
| 8496.00 | 36.66 | 12.76 | 49.42 | 74.00 | -24.58 | 194 | 100 | Peak |
| 10800.00 | 35.12 | 17.15 | 52.27 | 74.00 | -21.73 | 16 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11an HT40 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.83 | 3.15 | 48.98 | 74.00 | -25.02 | 74 | 100 | Peak |
| 5150.00 | 33.30 | 9.10 | 42.40 | 54.00 | -11.60 | 294 | 100 | Average |
| 5150.00 | 47.84 | 9.10 | 56.94 | 74.00 | -17.06 | 294 | 100 | Peak |
| 5350.00 | 42.00 | 9.46 | 51.46 | 54.00 | -2.54 | 285 | 100 | Average |
| 5350.00 | 60.73 | 9.46 | 70.19 | 74.00 | -3.81 | 285 | 100 | Peak |
| 6996.00 | 36.74 | 12.30 | 49.04 | 74.00 | -24.96 | 34 | 100 | Peak |
| 8664.00 | 36.76 | 12.62 | 49.38 | 74.00 | -24.62 | 287 | 100 | Peak |
| 10536.00 | 28.52 | 15.71 | 44.23 | 54.00 | -9.77 | 137 | 100 | Average |
| 10536.00 | 39.51 | 15.71 | 55.22 | 74.00 | -18.78 | 137 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 47.11 | 4.31 | 51.42 | 74.00 | -22.58 | 47 | 100 | Peak |
| 5150.00 | 30.90 | 9.10 | 40.00 | 54.00 | -14.00 | 155 | 100 | Average |
| 5150.00 | 45.50 | 9.10 | 54.60 | 74.00 | -19.40 | 155 | 100 | Peak |
| 5350.00 | 44.22 | 9.46 | 53.68 | 54.00 | -0.32 | 119 | 100 | Average |
| 5350.00 | 62.33 | 9.46 | 71.79 | 74.00 | -2.21 | 119 | 100 | Peak |
| 6828.00 | 37.24 | 12.08 | 49.32 | 74.00 | -24.68 | 253 | 100 | Peak |
| 8628.00 | 36.62 | 12.65 | 49.27 | 74.00 | -24.73 | 216 | 200 | Peak |
| 10536.00 | 28.90 | 15.71 | 44.61 | 54.00 | -9.39 | 14 | 200 | Average |
| 10536.00 | 39.39 | 15.71 | 55.10 | 74.00 | -18.90 | 14 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/08/31 |
| Test Mode | UNII Band 2A/ IEEE 802.11an HT40 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.79 | 3.15 | 48.94 | 74.00 | -25.06 | 74 | 100 | Peak |
| 5000.00 | 41.84 | 8.82 | 50.66 | 74.00 | -23.34 | 300 | 100 | Peak |
| 5560.00 | 39.85 | 9.88 | 49.73 | 74.00 | -24.27 | 297 | 100 | Peak |
| 6708.00 | 37.24 | 11.92 | 49.16 | 74.00 | -24.84 | 176 | 200 | Peak |
| 7956.00 | 37.20 | 12.33 | 49.53 | 74.00 | -24.47 | 244 | 200 | Peak |
| 10524.00 | 36.09 | 15.64 | 51.73 | 74.00 | -22.27 | 198 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.93 | 3.15 | 50.08 | 74.00 | -23.92 | 351 | 100 | Peak |
| 4480.00 | 41.96 | 7.60 | 49.56 | 74.00 | -24.44 | 146 | 200 | Peak |
| 5505.00 | 40.82 | 9.75 | 50.57 | 74.00 | -23.43 | 81 | 100 | Peak |
| 7140.00 | 38.11 | 11.99 | 50.10 | 74.00 | -23.90 | 137 | 100 | Peak |
| 9432.00 | 36.84 | 13.72 | 50.56 | 74.00 | -23.44 | 284 | 100 | Peak |
| 10668.00 | 35.48 | 16.43 | 51.91 | 74.00 | -22.09 | 73 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11a TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 44.90 | 3.15 | 48.05 | 74.00 | -25.95 | 45 | 100 | Peak |
| 5000.00 | 41.31 | 8.82 | 50.13 | 74.00 | -23.87 | 305 | 100 | Peak |
| 5940.00 | 38.90 | 10.73 | 49.63 | 74.00 | -24.37 | 56 | 100 | Peak |
| 6684.00 | 37.71 | 11.89 | 49.60 | 74.00 | -24.40 | 249 | 200 | Peak |
| 11004.00 | 28.90 | 18.24 | 47.14 | 54.00 | -6.86 | 194 | 100 | Average |
| 11004.00 | 38.76 | 18.24 | 57.00 | 74.00 | -17.00 | 194 | 100 | Peak |
| 16500.00 | 27.75 | 24.85 | 52.60 | 54.00 | -1.40 | 165 | 100 | Average |
| 16500.00 | 36.45 | 24.85 | 61.30 | 74.00 | -12.70 | 165 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.14 | 3.15 | 49.29 | 74.00 | -24.71 | 335 | 100 | Peak |
| 4625.00 | 41.39 | 7.94 | 49.33 | 74.00 | -24.67 | 292 | 200 | Peak |
| 5980.00 | 38.52 | 10.82 | 49.34 | 74.00 | -24.66 | 308 | 100 | Peak |
| 7200.00 | 37.68 | 11.85 | 49.53 | 74.00 | -24.47 | 191 | 100 | Peak |
| 11004.00 | 29.45 | 18.24 | 47.69 | 54.00 | -6.31 | 113 | 100 | Average |
| 11004.00 | 39.27 | 18.24 | 57.51 | 74.00 | -16.49 | 113 | 100 | Peak |
| 16500.00 | 28.57 | 24.85 | 53.42 | 54.00 | -0.58 | 193 | 100 | Average |
| 16500.00 | 37.04 | 24.85 | 61.89 | 74.00 | -12.11 | 193 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11a TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.33 | 3.15 | 49.48 | 74.00 | -24.52 | 42 | 100 | Peak |
| 5275.00 | 40.21 | 9.33 | 49.54 | 74.00 | -24.46 | 177 | 200 | Peak |
| 5990.00 | 38.41 | 10.85 | 49.26 | 74.00 | -24.74 | 111 | 200 | Peak |
| 6996.00 | 36.76 | 12.30 | 49.06 | 74.00 | -24.94 | 275 | 100 | Peak |
| 9876.00 | 36.88 | 14.47 | 51.35 | 74.00 | -22.65 | 284 | 100 | Peak |
| 11160.00 | 30.20 | 17.89 | 48.09 | 54.00 | -5.91 | 46 | 100 | Average |
| 11160.00 | 40.09 | 17.89 | 57.98 | 74.00 | -16.02 | 46 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.61 | 3.15 | 50.76 | 74.00 | -23.24 | 337 | 100 | Peak |
| 5455.00 | 40.37 | 9.66 | 50.03 | 74.00 | -23.97 | 109 | 100 | Peak |
| 5975.00 | 38.65 | 10.81 | 49.46 | 74.00 | -24.54 | 262 | 100 | Peak |
| 6744.00 | 38.33 | 11.97 | 50.30 | 74.00 | -23.70 | 6 | 200 | Peak |
| 11160.00 | 31.30 | 17.89 | 49.19 | 54.00 | -4.81 | 108 | 100 | Average |
| 11160.00 | 41.19 | 17.89 | 59.08 | 74.00 | -14.92 | 108 | 100 | Peak |
| 16740.00 | 26.57 | 25.34 | 51.91 | 54.00 | -2.09 | 51 | 100 | Average |
| 16740.00 | 36.68 | 25.34 | 62.02 | 74.00 | -11.98 | 51 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11a TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.79 | 3.15 | 48.94 | 74.00 | -25.06 | 41 | 100 | Peak |
| 4705.00 | 41.24 | 8.13 | 49.37 | 74.00 | -24.63 | 132 | 200 | Peak |
| 5725.00 | 38.04 | 10.25 | 48.29 | 54.00 | -5.71 | 61 | 100 | Average |
| 5725.00 | 60.48 | 10.25 | 70.73 | 74.00 | -3.27 | 61 | 100 | Peak |
| 6900.00 | 36.86 | 12.18 | 49.04 | 74.00 | -24.96 | 53 | 200 | Peak |
| 11400.00 | 27.00 | 17.34 | 44.34 | 54.00 | -9.66 | 0 | 200 | Average |
| 11400.00 | 36.83 | 17.34 | 54.17 | 74.00 | -19.83 | 0 | 200 | Peak |
| 17100.00 | 26.96 | 25.95 | 52.91 | 54.00 | -1.09 | 194 | 100 | Average |
| 17100.00 | 37.20 | 25.95 | 63.15 | 74.00 | -10.85 | 194 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.71 | 3.15 | 50.86 | 74.00 | -23.14 | 338 | 100 | Peak |
| 4705.00 | 41.03 | 8.13 | 49.16 | 74.00 | -24.84 | 59 | 100 | Peak |
| 5725.00 | 39.61 | 10.25 | 49.86 | 54.00 | -4.14 | 86 | 100 | Average |
| 5725.00 | 62.33 | 10.25 | 72.58 | 74.00 | -1.42 | 86 | 100 | Peak |
| 7176.00 | 38.70 | 11.91 | 50.61 | 74.00 | -23.39 | 285 | 100 | Peak |
| 11412.00 | 27.80 | 17.31 | 45.11 | 54.00 | -8.89 | 74 | 100 | Average |
| 11412.00 | 37.35 | 17.31 | 54.66 | 74.00 | -19.34 | 74 | 100 | Peak |
| 17088.00 | 27.25 | 25.94 | 53.19 | 54.00 | -0.81 | 71 | 200 | Average |
| 17088.00 | 38.31 | 25.94 | 64.25 | 74.00 | -9.75 | 71 | 200 | Peak |

***Remark:***

*1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
*2. Average test would be performed if the peak result were greater than the average limit.*
*3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
*4. Result = Reading + Correction Factor*
*Margin = Result – Limit*
*Remark Peak = Result(PK) – Limit(PK)*
*Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11an HT20 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.93 | 3.15 | 49.08 | 74.00 | -24.92 | 73 | 100 | Peak |
| 4725.00 | 41.34 | 8.18 | 49.52 | 74.00 | -24.48 | 98 | 200 | Peak |
| 5945.00 | 38.42 | 10.75 | 49.17 | 74.00 | -24.83 | 34 | 100 | Peak |
| 6660.00 | 37.21 | 11.86 | 49.07 | 74.00 | -24.93 | 270 | 200 | Peak |
| 8640.00 | 36.35 | 12.64 | 48.99 | 74.00 | -25.01 | 187 | 100 | Peak |
| 11004.00 | 25.40 | 18.24 | 43.64 | 54.00 | -10.36 | 193 | 200 | Average |
| 11004.00 | 35.09 | 18.24 | 53.33 | 74.00 | -20.67 | 193 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.63 | 3.15 | 49.78 | 74.00 | -24.22 | 339 | 100 | Peak |
| 5000.00 | 40.64 | 8.82 | 49.46 | 74.00 | -24.54 | 8 | 100 | Peak |
| 5900.00 | 40.00 | 10.64 | 50.64 | 74.00 | -23.36 | 290 | 200 | Peak |
| 6924.00 | 36.79 | 12.21 | 49.00 | 74.00 | -25.00 | 336 | 200 | Peak |
| 9552.00 | 36.67 | 14.01 | 50.68 | 74.00 | -23.32 | 150 | 200 | Peak |
| 11004.00 | 35.85 | 18.24 | 54.09 | 74.00 | -19.91 | 345 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11an HT20 TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.70 | 3.15 | 48.85 | 74.00 | -25.15 | 85 | 100 | Peak |
| 4725.00 | 41.99 | 8.18 | 50.17 | 74.00 | -23.83 | 34 | 200 | Peak |
| 5955.00 | 39.15 | 10.77 | 49.92 | 74.00 | -24.08 | 259 | 200 | Peak |
| 6924.00 | 37.25 | 12.21 | 49.46 | 74.00 | -24.54 | 273 | 100 | Peak |
| 9576.00 | 36.60 | 14.05 | 50.65 | 74.00 | -23.35 | 89 | 200 | Peak |
| 11148.00 | 30.50 | 17.91 | 48.41 | 54.00 | -5.59 | 185 | 100 | Average |
| 11148.00 | 40.27 | 17.91 | 58.18 | 74.00 | -15.82 | 185 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.06 | 3.15 | 50.21 | 74.00 | -23.79 | 338 | 100 | Peak |
| 5460.00 | 28.90 | 9.67 | 38.57 | 54.00 | -15.43 | 280 | 100 | Average |
| 5460.00 | 43.25 | 9.67 | 52.92 | 74.00 | -21.08 | 280 | 100 | Peak |
| 5730.00 | 38.91 | 10.26 | 49.17 | 74.00 | -24.83 | 253 | 100 | Peak |
| 7044.00 | 36.40 | 12.21 | 48.61 | 74.00 | -25.39 | 11 | 100 | Peak |
| 9348.00 | 37.31 | 13.45 | 50.76 | 74.00 | -23.24 | 211 | 100 | Peak |
| 11160.00 | 30.10 | 17.89 | 47.99 | 54.00 | -6.01 | 97 | 100 | Average |
| 11160.00 | 39.95 | 17.89 | 57.84 | 74.00 | -16.16 | 97 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11an HT20 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.79 | 3.15 | 49.94 | 74.00 | -24.06 | 41 | 100 | Peak |
| 5000.00 | 42.07 | 8.82 | 50.89 | 74.00 | -23.11 | 296 | 100 | Peak |
| 5725.00 | 39.01 | 10.25 | 49.26 | 54.00 | -4.74 | 77 | 200 | Average |
| 5725.00 | 61.14 | 10.25 | 71.39 | 74.00 | -2.61 | 77 | 200 | Peak |
| 6924.00 | 36.58 | 12.21 | 48.79 | 74.00 | -25.21 | 31 | 200 | Peak |
| 11400.00 | 30.50 | 17.34 | 47.84 | 54.00 | -6.16 | 10 | 100 | Average |
| 11400.00 | 40.32 | 17.34 | 57.66 | 74.00 | -16.34 | 10 | 100 | Peak |
| 17100.00 | 27.40 | 25.95 | 53.35 | 54.00 | -0.65 | 103 | 200 | Average |
| 17100.00 | 37.80 | 25.95 | 63.75 | 74.00 | -10.25 | 103 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.66 | 3.15 | 50.81 | 74.00 | -23.19 | 343 | 100 | Peak |
| 3180.00 | 46.86 | 4.31 | 51.17 | 74.00 | -22.83 | 54 | 100 | Peak |
| 5725.00 | 41.89 | 10.25 | 52.14 | 54.00 | -1.86 | 106 | 100 | Average |
| 5725.00 | 63.17 | 10.25 | 73.42 | 74.00 | -0.58 | 106 | 100 | Peak |
| 6960.00 | 37.43 | 12.26 | 49.69 | 74.00 | -24.31 | 192 | 200 | Peak |
| 11400.00 | 27.10 | 17.34 | 44.44 | 54.00 | -9.56 | 142 | 100 | Average |
| 11400.00 | 36.80 | 17.34 | 54.14 | 74.00 | -19.86 | 142 | 100 | Peak |
| 17112.00 | 26.90 | 25.96 | 52.86 | 54.00 | -1.14 | 66 | 200 | Average |
| 17112.00 | 37.34 | 25.96 | 63.30 | 74.00 | -10.70 | 66 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11an HT40 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.24 | 3.15 | 48.39 | 74.00 | -25.61 | 74 | 100 | Peak |
| 5000.00 | 41.94 | 8.82 | 50.76 | 74.00 | -23.24 | 301 | 100 | Peak |
| 5640.00 | 39.75 | 10.06 | 49.81 | 74.00 | -24.19 | 303 | 100 | Peak |
| 7104.00 | 38.10 | 12.07 | 50.17 | 74.00 | -23.83 | 21 | 100 | Peak |
| 8544.00 | 36.33 | 12.72 | 49.05 | 74.00 | -24.95 | 278 | 200 | Peak |
| 10500.00 | 36.30 | 15.51 | 51.81 | 74.00 | -22.19 | 12 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.26 | 3.15 | 49.41 | 74.00 | -24.59 | 341 | 100 | Peak |
| 4675.00 | 41.94 | 8.06 | 50.00 | 74.00 | -24.00 | 21 | 200 | Peak |
| 5920.00 | 38.80 | 10.69 | 49.49 | 74.00 | -24.51 | 315 | 200 | Peak |
| 6396.00 | 37.02 | 11.63 | 48.65 | 74.00 | -25.35 | 62 | 200 | Peak |
| 8340.00 | 36.90 | 12.66 | 49.56 | 74.00 | -24.44 | 31 | 100 | Peak |
| 10236.00 | 35.95 | 15.05 | 51.00 | 74.00 | -23.00 | 103 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 2C/ IEEE 802.11an HT40 TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 4630.00 | 41.77 | 7.95 | 49.72 | 74.00 | -24.28 | 2 | 200 | Peak |
| 5460.00 | 38.80 | 9.67 | 48.47 | 54.00 | -5.53 | 52 | 100 | Average |
| 5460.00 | 58.87 | 9.67 | 68.54 | 74.00 | -5.46 | 52 | 100 | Peak |
| 5700.00 | 39.62 | 10.19 | 49.81 | 74.00 | -24.19 | 286 | 100 | Peak |
| 6900.00 | 36.84 | 12.18 | 49.02 | 74.00 | -24.98 | 192 | 100 | Peak |
| 11088.00 | 28.50 | 18.05 | 46.55 | 54.00 | -7.45 | 185 | 100 | Average |
| 11088.00 | 38.38 | 18.05 | 56.43 | 74.00 | -17.57 | 185 | 100 | Peak |
| 16656.00 | 25.56 | 25.17 | 50.73 | 54.00 | -3.27 | 80 | 200 | Average |
| 16656.00 | 36.44 | 25.17 | 61.61 | 74.00 | -12.39 | 80 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.01 | 3.15 | 50.16 | 74.00 | -23.84 | 352 | 100 | Peak |
| 5460.00 | 41.84 | 9.67 | 51.51 | 54.00 | -2.49 | 108 | 100 | Average |
| 5460.00 | 62.34 | 9.67 | 72.01 | 74.00 | -1.99 | 108 | 100 | Peak |
| 5900.00 | 40.08 | 10.64 | 50.72 | 74.00 | -23.28 | 1 | 200 | Peak |
| 7176.00 | 37.07 | 11.91 | 48.98 | 74.00 | -25.02 | 173 | 100 | Peak |
| 11088.00 | 28.10 | 18.05 | 46.15 | 54.00 | -7.85 | 133 | 100 | Average |
| 11088.00 | 37.98 | 18.05 | 56.03 | 74.00 | -17.97 | 133 | 100 | Peak |
| 16644.00 | 27.19 | 25.15 | 52.34 | 54.00 | -1.66 | 83 | 100 | Average |
| 16644.00 | 36.11 | 25.15 | 61.26 | 74.00 | -12.74 | 83 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/17 |
| Test Mode | UNII Band 2C/ IEEE 802.11an HT40 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.91 | 3.15 | 51.06 | 74.00 | -22.94 | 68 | 100 | Peak |
| 4735.00 | 40.91 | 8.20 | 49.11 | 74.00 | -24.89 | 138 | 100 | Peak |
| 5725.00 | 40.93 | 10.25 | 51.18 | 54.00 | -2.82 | 59 | 100 | Average |
| 5725.00 | 59.38 | 10.25 | 69.63 | 74.00 | -4.37 | 59 | 100 | Peak |
| 7380.00 | 37.06 | 12.35 | 49.41 | 74.00 | -24.59 | 232 | 200 | Peak |
| 8640.00 | 36.37 | 13.21 | 49.58 | 74.00 | -24.42 | 18 | 100 | Peak |
| 10260.00 | 35.61 | 16.14 | 51.75 | 74.00 | -22.25 | 116 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 49.47 | 3.15 | 52.62 | 74.00 | -21.38 | 336 | 100 | Peak |
| 3180.00 | 47.17 | 4.31 | 51.48 | 74.00 | -22.52 | 284 | 100 | Peak |
| 5725.00 | 42.26 | 10.25 | 52.51 | 54.00 | -1.49 | 82 | 169 | Average |
| 5725.00 | 59.98 | 10.25 | 70.23 | 74.00 | -3.77 | 82 | 169 | Peak |
| 7212.00 | 37.44 | 12.31 | 49.75 | 74.00 | -24.25 | 159 | 200 | Peak |
| 8664.00 | 37.61 | 13.22 | 50.83 | 74.00 | -23.17 | 335 | 100 | Peak |
| 10104.00 | 36.16 | 15.71 | 51.87 | 74.00 | -22.13 | 204 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11a TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.60 | 3.01 | 49.61 | 74.00 | -24.39 | 74 | 100 | Peak |
| 5365.00 | 41.01 | 9.56 | 50.57 | 74.00 | -23.43 | 300 | 100 | Peak |
| 5725.00 | 37.56 | 10.75 | 48.31 | 54.00 | -5.69 | 72 | 100 | Average |
| 5725.00 | 58.21 | 10.75 | 68.96 | 74.00 | -5.04 | 72 | 100 | Peak |
| 6888.00 | 36.55 | 12.16 | 48.71 | 74.00 | -25.29 | 320 | 100 | Peak |
| 11484.00 | 26.90 | 17.15 | 44.05 | 54.00 | -9.95 | 151 | 200 | Average |
| 11484.00 | 36.73 | 17.15 | 53.88 | 74.00 | -20.12 | 151 | 200 | Peak |
| 17232.00 | 26.20 | 26.05 | 52.25 | 54.00 | -1.75 | 144 | 200 | Average |
| 17232.00 | 36.93 | 26.05 | 62.98 | 74.00 | -11.02 | 144 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.60 | 3.01 | 49.61 | 74.00 | -24.39 | 341 | 100 | Peak |
| 5410.00 | 39.66 | 9.74 | 49.40 | 74.00 | -24.60 | 276 | 100 | Peak |
| 5725.00 | 41.54 | 10.75 | 52.29 | 54.00 | -1.71 | 68 | 100 | Average |
| 5725.00 | 62.79 | 10.75 | 73.54 | 74.00 | -0.46 | 68 | 100 | Peak |
| 6936.00 | 36.64 | 12.23 | 48.87 | 74.00 | -25.13 | 359 | 100 | Peak |
| 11484.00 | 28.80 | 17.15 | 45.95 | 54.00 | -8.05 | 360 | 100 | Average |
| 11484.00 | 38.66 | 17.15 | 55.81 | 74.00 | -18.19 | 360 | 100 | Peak |
| 17232.00 | 27.17 | 26.05 | 53.22 | 54.00 | -0.78 | 115 | 200 | Average |
| 17232.00 | 38.41 | 26.05 | 64.46 | 74.00 | -9.54 | 115 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11a TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.08 | 3.01 | 49.09 | 74.00 | -24.91 | 74 | 100 | Peak |
| 5435.00 | 40.91 | 9.84 | 50.75 | 74.00 | -23.25 | 61 | 200 | Peak |
| 5935.00 | 38.68 | 11.36 | 50.04 | 74.00 | -23.96 | 190 | 200 | Peak |
| 6120.00 | 37.66 | 11.57 | 49.23 | 74.00 | -24.77 | 1 | 100 | Peak |
| 8652.00 | 36.77 | 12.63 | 49.40 | 74.00 | -24.60 | 82 | 200 | Peak |
| 10152.00 | 36.73 | 14.90 | 51.63 | 74.00 | -22.37 | 78 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.37 | 3.01 | 50.38 | 74.00 | -23.62 | 340 | 100 | Peak |
| 5425.00 | 40.94 | 9.80 | 50.74 | 74.00 | -23.26 | 110 | 100 | Peak |
| 5970.00 | 39.06 | 11.46 | 50.52 | 74.00 | -23.48 | 340 | 100 | Peak |
| 7020.00 | 37.76 | 12.26 | 50.02 | 74.00 | -23.98 | 56 | 100 | Peak |
| 11568.00 | 29.70 | 17.50 | 47.20 | 54.00 | -6.80 | 213 | 100 | Average |
| 11568.00 | 39.58 | 17.50 | 57.08 | 74.00 | -16.92 | 213 | 100 | Peak |
| 17352.00 | 27.12 | 26.13 | 53.25 | 54.00 | -0.75 | 324 | 100 | Average |
| 17352.00 | 36.98 | 26.13 | 63.11 | 74.00 | -10.89 | 324 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



*This report shall not be reproduced, except in full, without the written approval of Compliance Certification Services Inc.*

| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11a TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.13 | 3.01 | 49.14 | 74.00 | -24.86 | 72 | 100 | Peak |
| 5390.00 | 40.21 | 9.66 | 49.87 | 74.00 | -24.13 | 189 | 200 | Peak |
| 5850.00 | 35.32 | 11.11 | 46.43 | 54.00 | -7.57 | 40 | 100 | Average |
| 5850.00 | 59.00 | 11.11 | 70.11 | 74.00 | -3.89 | 40 | 100 | Peak |
| 6900.00 | 37.61 | 12.18 | 49.79 | 74.00 | -24.21 | 80 | 200 | Peak |
| 9408.00 | 36.53 | 13.64 | 50.17 | 74.00 | -23.83 | 5 | 100 | Peak |
| 11652.00 | 28.40 | 17.98 | 46.38 | 54.00 | -7.62 | 289 | 100 | Average |
| 11652.00 | 38.21 | 17.98 | 56.19 | 74.00 | -17.81 | 289 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 48.06 | 3.01 | 51.07 | 74.00 | -22.93 | 338 | 100 | Peak |
| 5410.00 | 39.98 | 9.74 | 49.72 | 74.00 | -24.28 | 61 | 100 | Peak |
| 5850.00 | 39.00 | 11.11 | 50.11 | 54.00 | -3.89 | 88 | 200 | Average |
| 5850.00 | 62.34 | 11.11 | 73.45 | 74.00 | -0.55 | 88 | 200 | Peak |
| 7260.00 | 37.11 | 11.71 | 48.82 | 74.00 | -25.18 | 238 | 100 | Peak |
| 11652.00 | 29.50 | 17.98 | 47.48 | 54.00 | -6.52 | 13 | 100 | Average |
| 11652.00 | 39.32 | 17.98 | 57.30 | 74.00 | -16.70 | 13 | 100 | Peak |
| 17472.00 | 26.78 | 26.22 | 53.00 | 54.00 | -1.00 | 20 | 100 | Average |
| 17472.00 | 36.60 | 26.22 | 62.82 | 74.00 | -11.18 | 20 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11an HT20 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3185.00 | 45.52 | 4.40 | 49.92 | 74.00 | -24.08 | 179 | 100 | Peak |
| 5000.00 | 42.57 | 8.14 | 50.71 | 74.00 | -23.29 | 304 | 100 | Peak |
| 5725.00 | 37.31 | 10.75 | 48.06 | 54.00 | -5.94 | 57 | 100 | Average |
| 5725.00 | 58.05 | 10.75 | 68.80 | 74.00 | -5.20 | 57 | 100 | Peak |
| 6636.00 | 37.79 | 11.83 | 49.62 | 74.00 | -24.38 | 165 | 100 | Peak |
| 11496.00 | 26.20 | 17.12 | 43.32 | 54.00 | -10.68 | 38 | 100 | Average |
| 11496.00 | 35.93 | 17.12 | 53.05 | 74.00 | -20.95 | 38 | 100 | Peak |
| 17232.00 | 26.70 | 26.05 | 52.75 | 54.00 | -1.25 | 192 | 100 | Average |
| 17232.00 | 36.83 | 26.05 | 62.88 | 74.00 | -11.12 | 192 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 47.53 | 3.01 | 50.54 | 74.00 | -23.46 | 339 | 100 | Peak |
| 5440.00 | 40.56 | 9.86 | 50.42 | 74.00 | -23.58 | 108 | 100 | Peak |
| 5725.00 | 42.36 | 10.75 | 53.11 | 54.00 | -0.89 | 72 | 100 | Average |
| 5725.00 | 62.26 | 10.75 | 73.01 | 74.00 | -0.99 | 72 | 100 | Peak |
| 6948.00 | 36.83 | 12.24 | 49.07 | 74.00 | -24.93 | 154 | 100 | Peak |
| 11496.00 | 27.30 | 17.12 | 44.42 | 54.00 | -9.58 | 49 | 100 | Average |
| 11496.00 | 37.13 | 17.12 | 54.25 | 74.00 | -19.75 | 49 | 100 | Peak |
| 17232.00 | 27.00 | 26.05 | 53.05 | 54.00 | -0.95 | 90 | 200 | Average |
| 17232.00 | 37.78 | 26.05 | 63.83 | 74.00 | -10.17 | 90 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



*This report shall not be reproduced, except in full, without the written approval of Compliance Certification Services Inc.*

| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11an HT20 TX / CH Middle | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.78 | 3.01 | 48.79 | 74.00 | -25.21 | 83 | 100 | Peak |
| 4800.00 | 40.71 | 7.98 | 48.69 | 74.00 | -25.31 | 339 | 200 | Peak |
| 5405.00 | 40.01 | 9.72 | 49.73 | 74.00 | -24.27 | 31 | 100 | Peak |
| 7008.00 | 36.32 | 12.29 | 48.61 | 74.00 | -25.39 | 124 | 100 | Peak |
| 11568.00 | 26.50 | 17.50 | 44.00 | 54.00 | -10.00 | 2 | 200 | Average |
| 11568.00 | 36.35 | 17.50 | 53.85 | 74.00 | -20.15 | 2 | 200 | Peak |
| 17364.00 | 26.94 | 26.14 | 53.08 | 54.00 | -0.92 | 106 | 200 | Average |
| 17364.00 | 36.91 | 26.14 | 63.05 | 74.00 | -10.95 | 106 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.28 | 3.01 | 49.29 | 74.00 | -24.71 | 97 | 100 | Peak |
| 4585.00 | 41.90 | 7.81 | 49.71 | 74.00 | -24.29 | 59 | 200 | Peak |
| 5435.00 | 40.63 | 9.84 | 50.47 | 74.00 | -23.53 | 57 | 100 | Peak |
| 6888.00 | 36.46 | 12.16 | 48.62 | 74.00 | -25.38 | 303 | 100 | Peak |
| 11580.00 | 30.80 | 17.57 | 48.37 | 54.00 | -5.63 | 0 | 100 | Average |
| 11580.00 | 40.71 | 17.57 | 58.28 | 74.00 | -15.72 | 0 | 100 | Peak |
| 17352.00 | 26.85 | 26.13 | 52.98 | 54.00 | -1.02 | 319 | 100 | Average |
| 17352.00 | 38.18 | 26.13 | 64.31 | 74.00 | -9.69 | 319 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11an HT20 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.88 | 3.01 | 48.89 | 74.00 | -25.11 | 71 | 100 | Peak |
| 5355.00 | 40.55 | 9.52 | 50.07 | 74.00 | -23.93 | 241 | 200 | Peak |
| 5850.00 | 36.50 | 11.11 | 47.61 | 54.00 | -6.39 | 310 | 100 | Average |
| 5850.00 | 58.19 | 11.11 | 69.30 | 74.00 | -4.70 | 310 | 100 | Peak |
| 7008.00 | 36.77 | 12.29 | 49.06 | 74.00 | -24.94 | 162 | 200 | Peak |
| 11652.00 | 29.90 | 17.98 | 47.88 | 54.00 | -6.12 | 296 | 100 | Average |
| 11652.00 | 39.64 | 17.98 | 57.62 | 74.00 | -16.38 | 296 | 100 | Peak |
| 17472.00 | 27.12 | 26.22 | 53.34 | 54.00 | -0.66 | 114 | 200 | Average |
| 17472.00 | 36.17 | 26.22 | 62.39 | 74.00 | -11.61 | 114 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 47.97 | 4.39 | 52.36 | 74.00 | -21.64 | 49 | 100 | Peak |
| 5400.00 | 41.44 | 9.70 | 51.14 | 74.00 | -22.86 | 269 | 100 | Peak |
| 5850.00 | 39.47 | 11.11 | 50.58 | 54.00 | -3.42 | 132 | 100 | Average |
| 5850.00 | 61.57 | 11.11 | 72.68 | 74.00 | -1.32 | 132 | 100 | Peak |
| 6936.00 | 36.75 | 12.23 | 48.98 | 74.00 | -25.02 | 124 | 100 | Peak |
| 11652.00 | 32.40 | 17.98 | 50.38 | 54.00 | -3.62 | 4 | 100 | Average |
| 11652.00 | 42.26 | 17.98 | 60.24 | 74.00 | -13.76 | 4 | 100 | Peak |
| 17484.00 | 26.90 | 26.23 | 53.13 | 54.00 | -0.87 | 64 | 200 | Average |
| 17484.00 | 35.51 | 26.23 | 61.74 | 74.00 | -12.26 | 64 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11an HT40 TX / CH Low | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 46.38 | 3.01 | 49.39 | 74.00 | -24.61 | 77 | 100 | Peak |
| 5000.00 | 42.73 | 8.14 | 50.87 | 74.00 | -23.13 | 308 | 100 | Peak |
| 5725.00 | 42.63 | 10.75 | 53.38 | 54.00 | -0.62 | 43 | 100 | Average |
| 5725.00 | 58.65 | 10.75 | 69.40 | 74.00 | -4.60 | 43 | 100 | Peak |
| 6984.00 | 36.38 | 12.29 | 48.67 | 74.00 | -25.33 | 71 | 200 | Peak |
| 9420.00 | 36.04 | 13.68 | 49.72 | 74.00 | -24.28 | 231 | 100 | Peak |
| 10908.00 | 34.88 | 17.75 | 52.63 | 74.00 | -21.37 | 359 | 100 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 46.17 | 4.39 | 50.56 | 74.00 | -23.44 | 223 | 100 | Peak |
| 5445.00 | 39.92 | 9.88 | 49.80 | 74.00 | -24.20 | 87 | 100 | Peak |
| 5725.00 | 42.45 | 10.75 | 53.20 | 54.00 | -0.80 | 69 | 100 | Average |
| 5725.00 | 58.57 | 10.75 | 69.32 | 74.00 | -4.68 | 69 | 100 | Peak |
| 7272.00 | 37.31 | 11.68 | 48.99 | 74.00 | -25.01 | 301 | 200 | Peak |
| 11508.00 | 27.50 | 17.16 | 44.66 | 54.00 | -9.34 | 347 | 100 | Average |
| 11508.00 | 37.32 | 17.16 | 54.48 | 74.00 | -19.52 | 347 | 100 | Peak |
| 17268.00 | 27.20 | 26.07 | 53.27 | 54.00 | -0.73 | 55 | 100 | Average |
| 17268.00 | 37.73 | 26.07 | 63.80 | 74.00 | -10.20 | 55 | 100 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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| Product Name | Computer | Test By | Rex Chiu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/09/02 |
| Test Mode | UNII Band 3/ IEEE 802.11an HT40 TX / CH High | Temp. & Humidity | 25°C, 50% |

**966 Chamber_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 2500.00 | 45.92 | 3.01 | 48.93 | 74.00 | -25.07 | 74 | 100 | Peak |
| 5725.00 | 30.20 | 10.75 | 40.95 | 54.00 | -13.05 | 107 | 200 | Average |
| 5725.00 | 53.40 | 10.75 | 64.15 | 74.00 | -9.85 | 107 | 200 | Peak |
| 5850.00 | 40.10 | 11.11 | 51.21 | 54.00 | -2.79 | 78 | 200 | Average |
| 5850.00 | 58.70 | 11.11 | 69.81 | 74.00 | -4.19 | 78 | 200 | Peak |
| 6996.00 | 36.92 | 12.30 | 49.22 | 74.00 | -24.78 | 150 | 200 | Peak |
| 9516.00 | 37.35 | 13.96 | 51.31 | 74.00 | -22.69 | 350 | 100 | Peak |
| 11592.00 | 27.90 | 17.64 | 45.54 | 54.00 | -8.46 | 5 | 200 | Average |
| 11592.00 | 37.72 | 17.64 | 55.36 | 74.00 | -18.64 | 5 | 200 | Peak |

**966 Chamber_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 3180.00 | 46.17 | 4.39 | 50.56 | 74.00 | -23.44 | 49 | 100 | Peak |
| 5725.00 | 33.55 | 10.75 | 44.30 | 54.00 | -9.70 | 67 | 100 | Average |
| 5725.00 | 55.88 | 10.75 | 66.63 | 74.00 | -7.37 | 67 | 100 | Peak |
| 5850.00 | 40.60 | 11.11 | 51.71 | 54.00 | -2.29 | 278 | 100 | Average |
| 5850.00 | 59.11 | 11.11 | 70.22 | 74.00 | -3.78 | 278 | 100 | Peak |
| 6708.00 | 37.45 | 11.92 | 49.37 | 74.00 | -24.63 | 89 | 200 | Peak |
| 11592.00 | 29.30 | 17.64 | 46.94 | 54.00 | -7.06 | 12 | 100 | Average |
| 11592.00 | 39.15 | 17.64 | 56.79 | 74.00 | -17.21 | 12 | 100 | Peak |
| 17388.00 | 27.23 | 26.16 | 53.39 | 54.00 | -0.61 | 73 | 200 | Average |
| 17388.00 | 35.74 | 26.16 | 61.90 | 74.00 | -12.10 | 73 | 200 | Peak |

***Remark:***

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
4. *Result = Reading + Correction Factor*
   *Margin = Result – Limit*
   *Remark Peak = Result(PK) – Limit(PK)*
   *Remark AVG = Result(AV) – Limit(AV)*



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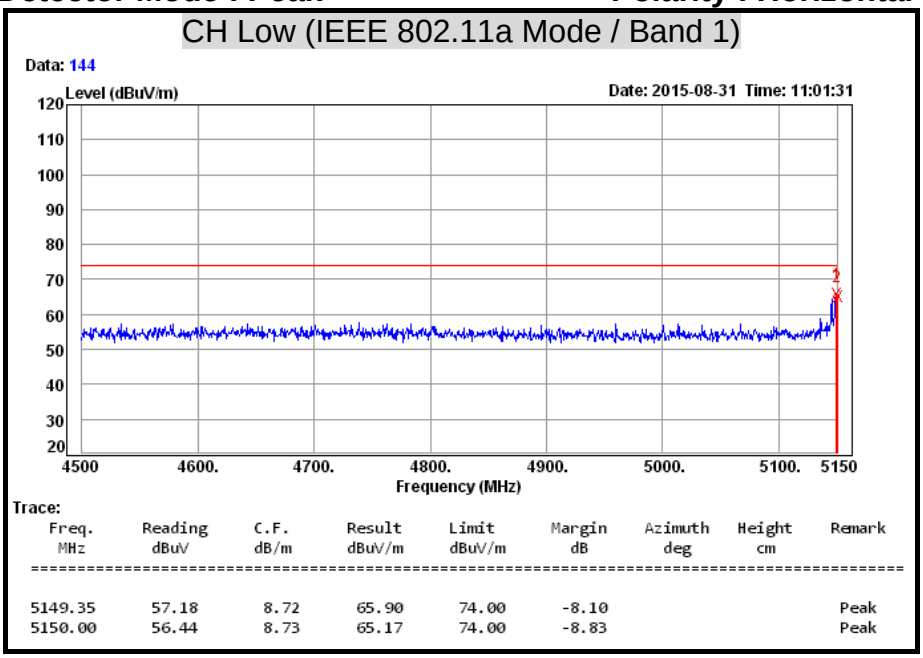
## Restricted Band Edges

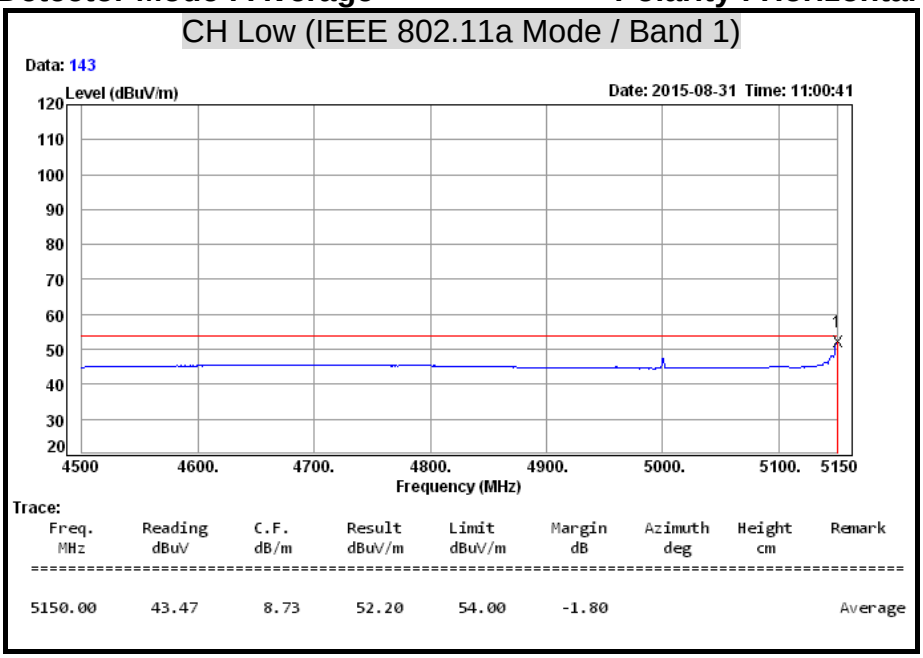
**Detector Mode : Peak** **Polarity : Horizontal**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5149.35 | 57.18 | 8.72 | 65.90 | 74.00 | -8.10 | | | Peak |
| 5150.00 | 56.44 | 8.73 | 65.17 | 74.00 | -8.83 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5150.00 | 43.47 | 8.73 | 52.20 | 54.00 | -1.80 | | | Average |



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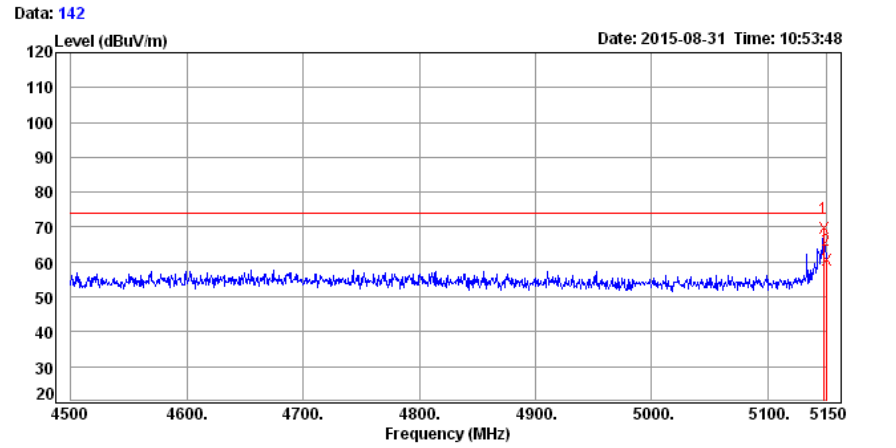
**Detector Mode : Peak** **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 1)

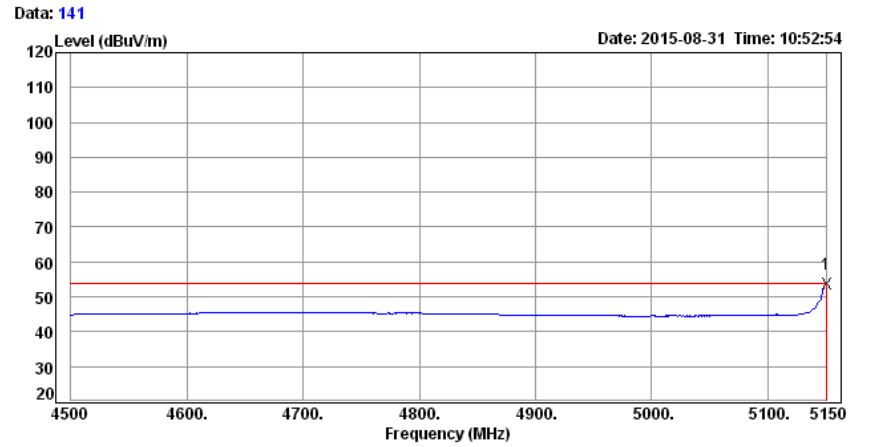



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5148.05 | 60.98 | 8.72 | 69.70 | 74.00 | -4.30 | | | Peak |
| 5150.00 | 51.85 | 8.73 | 60.58 | 74.00 | -13.42 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 1)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5150.00 | 44.75 | 8.73 | 53.48 | 54.00 | -0.52 | | | Average |



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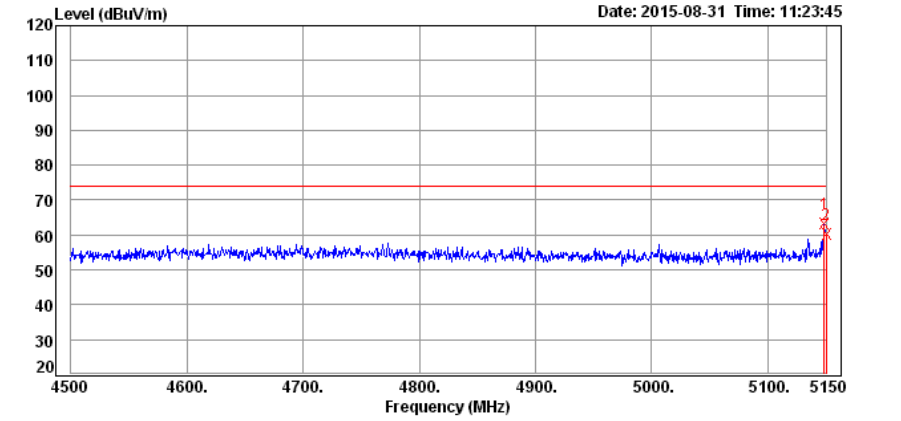
**Detector Mode : Peak** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT20 Mode / Band 1)

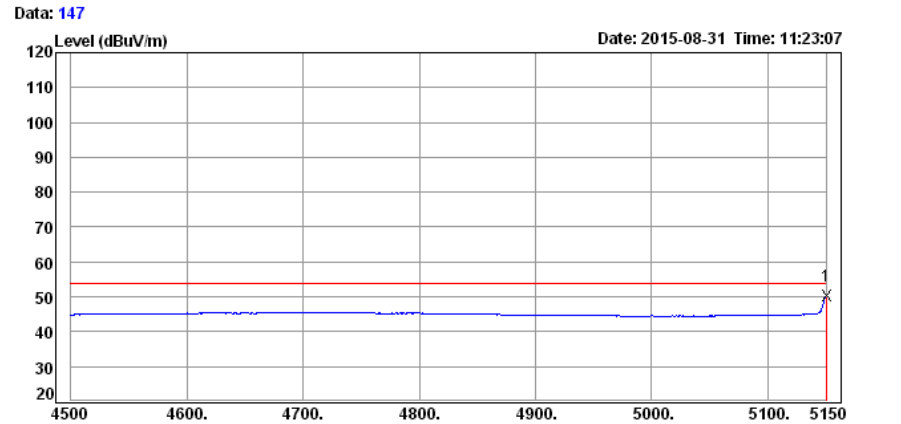



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5148.70 | 54.29 | 8.72 | 63.01 | 74.00 | -10.99 | | | Peak |
| 5150.00 | 51.55 | 8.73 | 60.28 | 74.00 | -13.72 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT20 Mode / Band 1)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5150.00 | 41.37 | 8.73 | 50.10 | 54.00 | -3.90 | | | Average |



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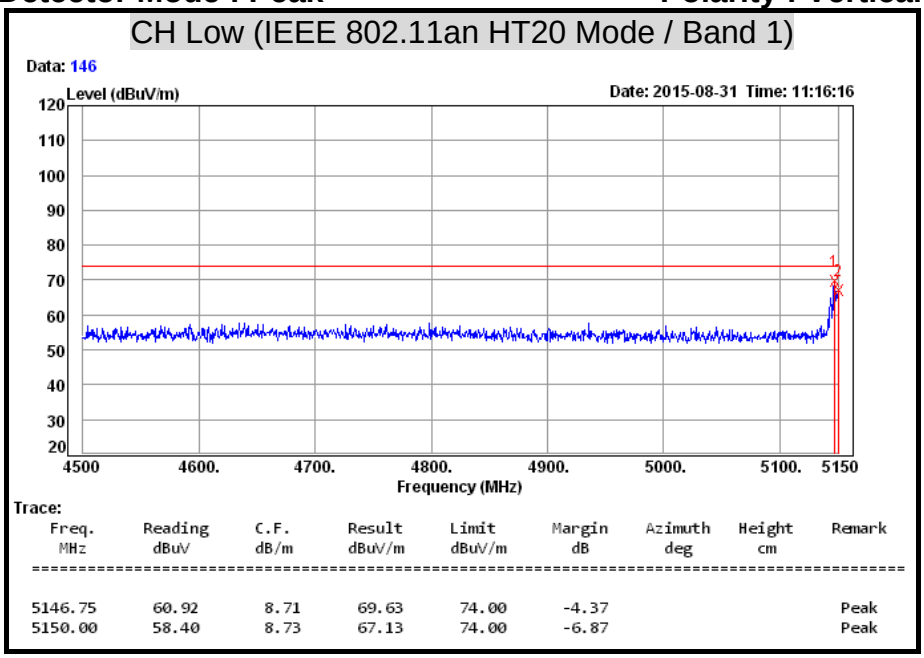
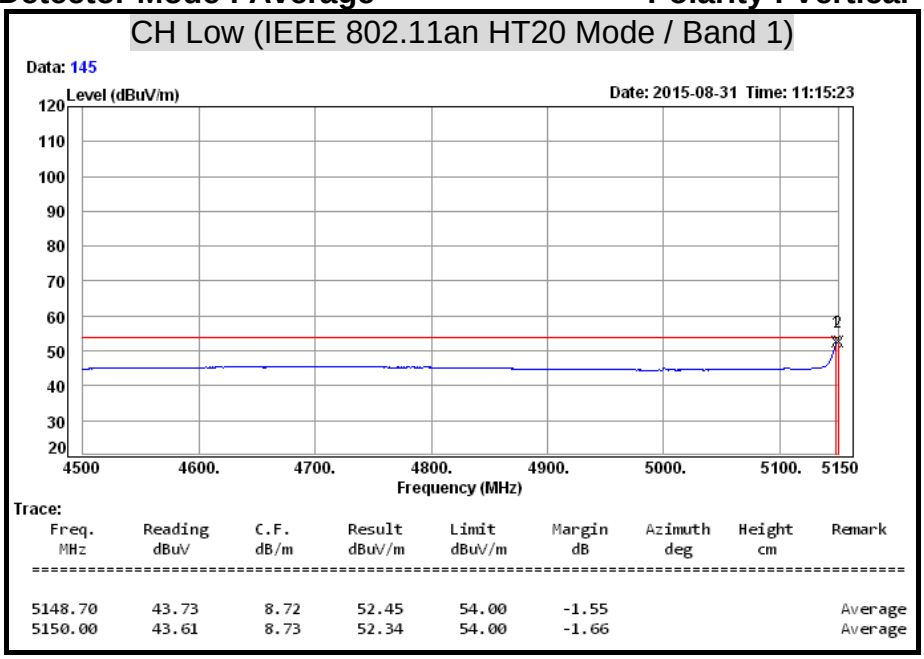
**Detector Mode : Peak** **Polarity : Vertical**




**Detector Mode : Average** **Polarity : Vertical**



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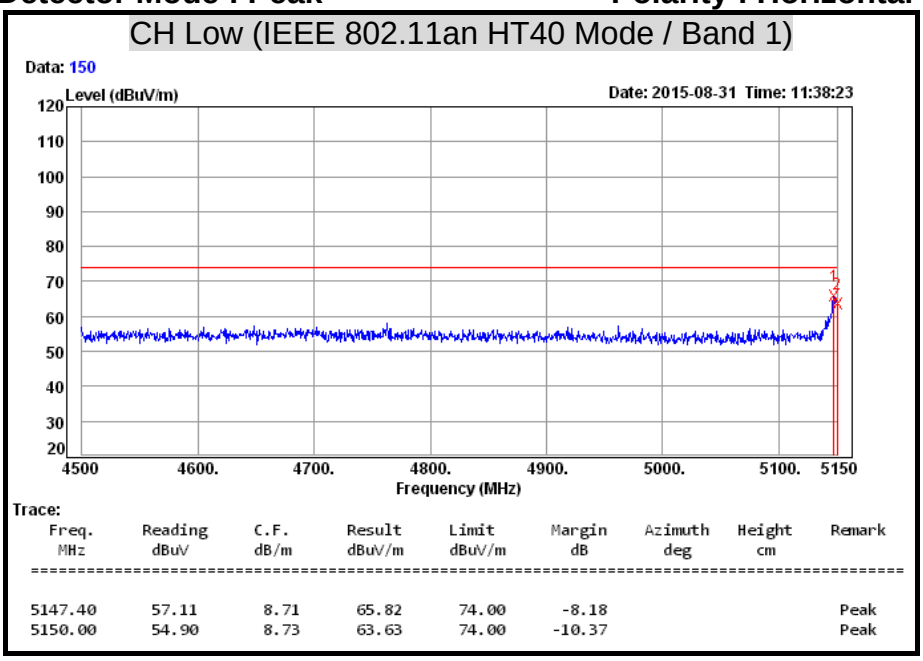
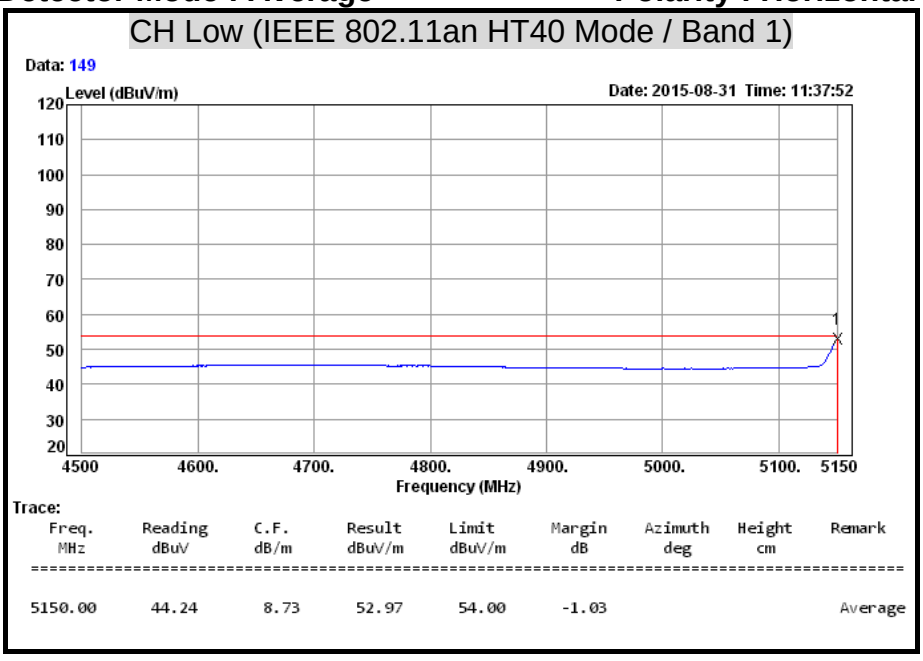
**Detector Mode : Peak** **Polarity : Horizontal**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5147.40 | 57.11 | 8.71 | 65.82 | 74.00 | -8.18 | | | Peak |
| 5150.00 | 54.90 | 8.73 | 63.63 | 74.00 | -10.37 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5150.00 | 44.24 | 8.73 | 52.97 | 54.00 | -1.03 | | | Average |



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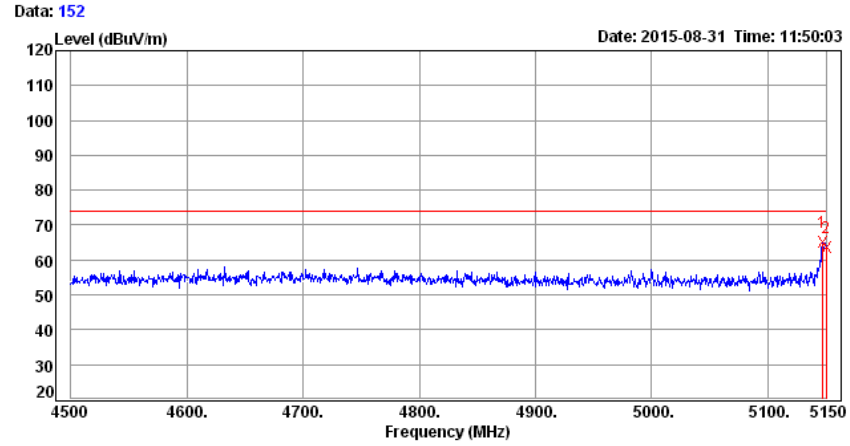
**Detector Mode : Peak** **Polarity : Vertical**

CH Low (IEEE 802.11an HT40 Mode / Band 1)

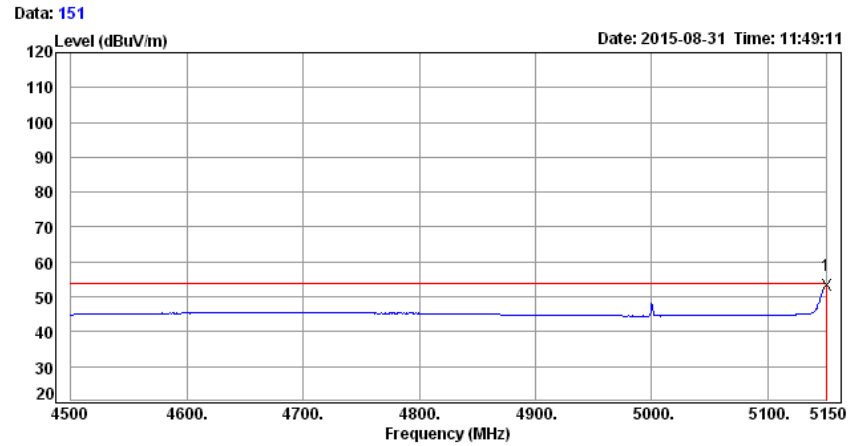



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5146.75 | 56.27 | 8.71 | 64.98 | 74.00 | -9.02 | | | Peak |
| 5150.00 | 54.96 | 8.73 | 63.69 | 74.00 | -10.31 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**

CH Low (IEEE 802.11an HT40 Mode / Band 1)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5150.00 | 44.61 | 8.73 | 53.34 | 54.00 | -0.66 | | | Average |



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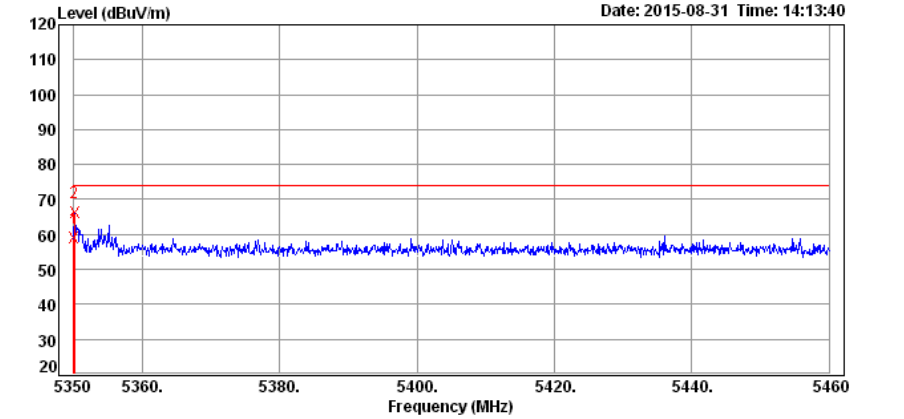
**Detector Mode : Peak** **Polarity : Horizontal**

CH Low (IEEE 802.11a Mode / Band 2A)

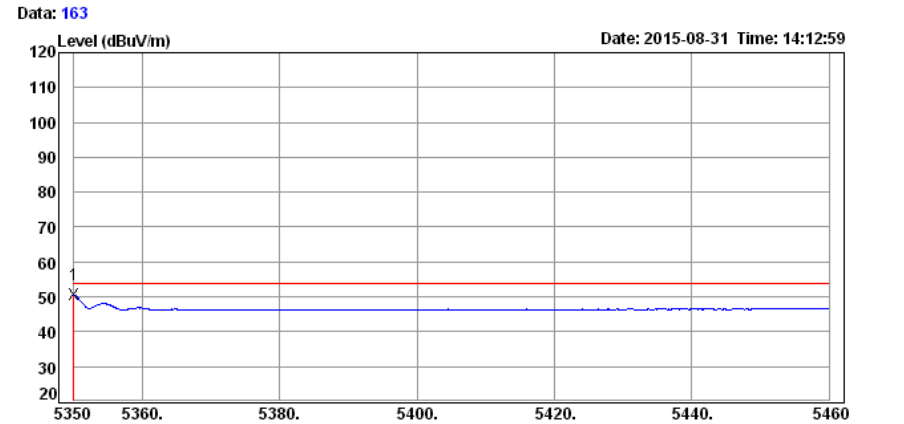



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 49.33 | 9.51 | 58.84 | 74.00 | -15.16 | | | Peak |
| 5350.11 | 56.67 | 9.51 | 66.18 | 74.00 | -7.82 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**

CH Low (IEEE 802.11a Mode / Band 2A)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 40.96 | 9.51 | 50.47 | 54.00 | -3.53 | | | Average |



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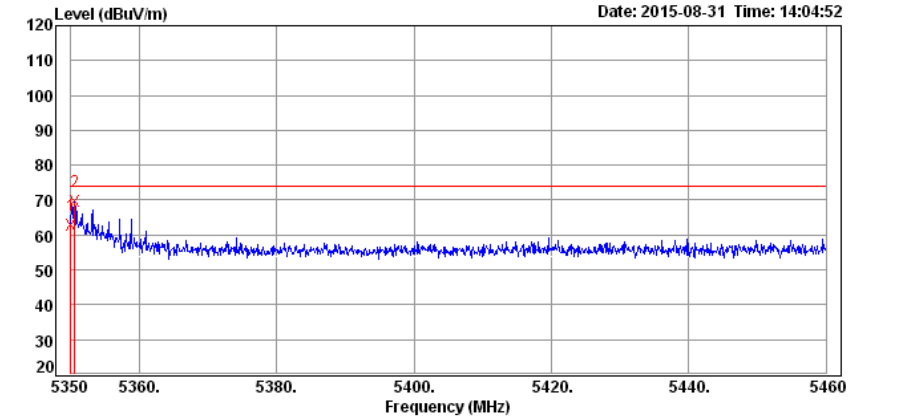
**Detector Mode : Peak** **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 2A)

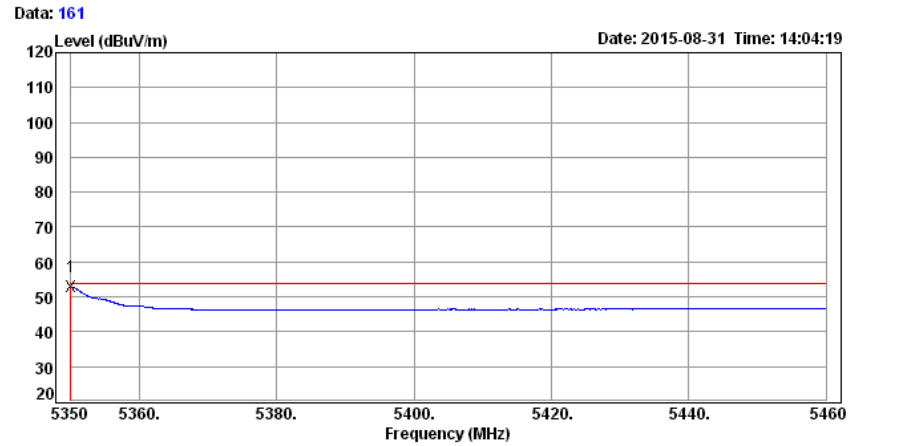



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 53.42 | 9.51 | 62.93 | 74.00 | -11.07 | | | Peak |
| 5350.55 | 60.07 | 9.51 | 69.58 | 74.00 | -4.42 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 2A)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 43.39 | 9.51 | 52.90 | 54.00 | -1.10 | | | Average |



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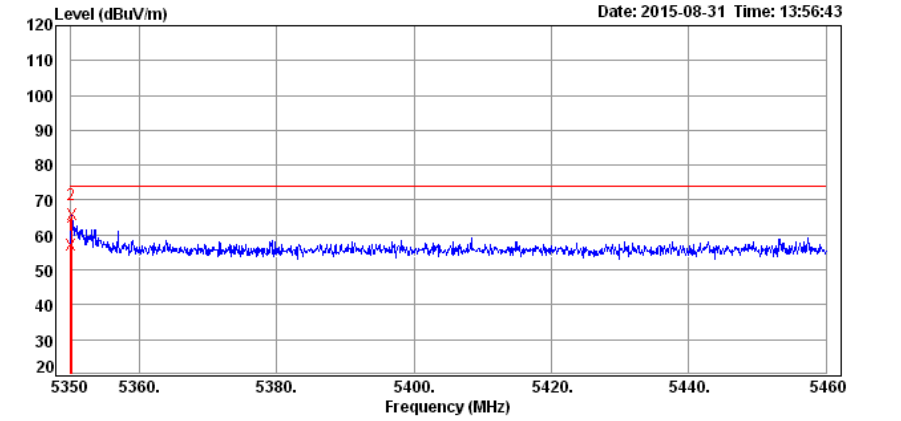
**Detector Mode : Peak** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT20 Mode / Band 2A)

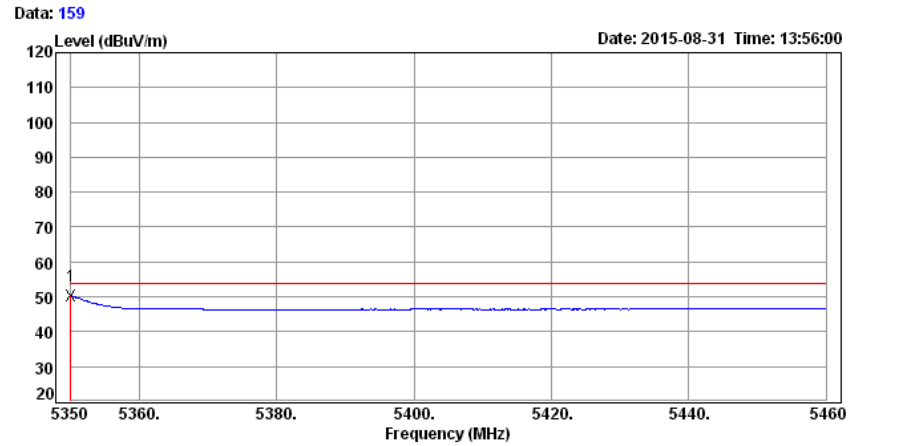



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 47.68 | 9.51 | 57.19 | 74.00 | -16.81 | | | Peak |
| 5350.11 | 56.26 | 9.51 | 65.77 | 74.00 | -8.23 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT20 Mode / Band 2A)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 40.77 | 9.51 | 50.28 | 54.00 | -3.72 | | | Average |



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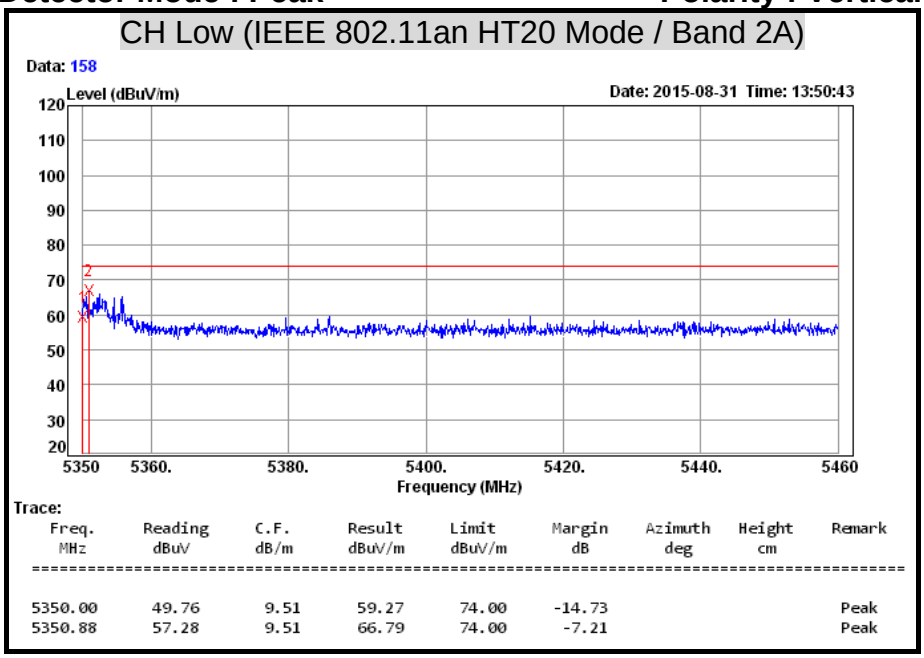
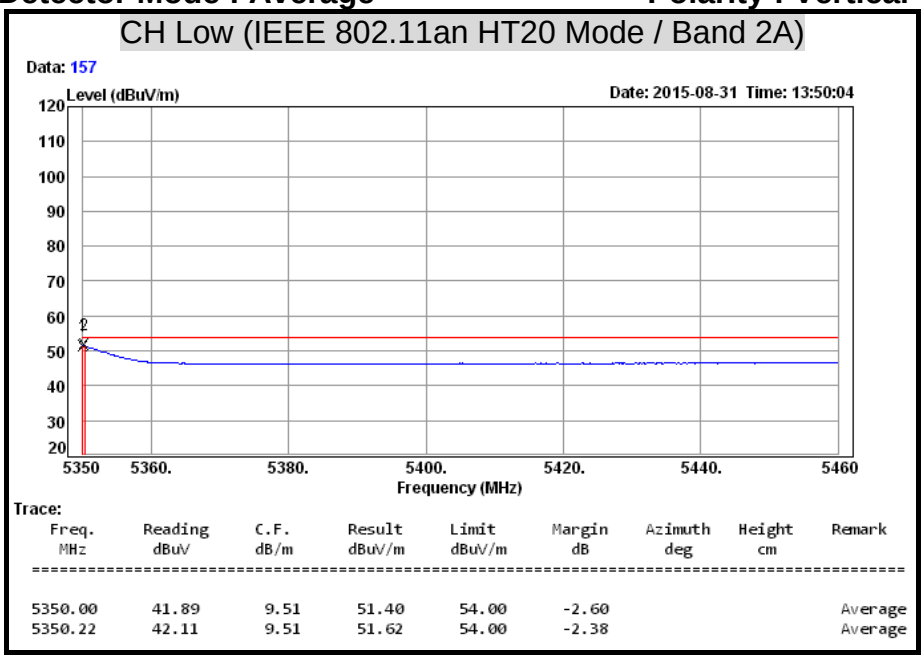
**Detector Mode : Peak** **Polarity : Vertical**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 49.76 | 9.51 | 59.27 | 74.00 | -14.73 | | | Peak |
| 5350.88 | 57.28 | 9.51 | 66.79 | 74.00 | -7.21 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 41.89 | 9.51 | 51.40 | 54.00 | -2.60 | | | Average |
| 5350.22 | 42.11 | 9.51 | 51.62 | 54.00 | -2.38 | | | Average |



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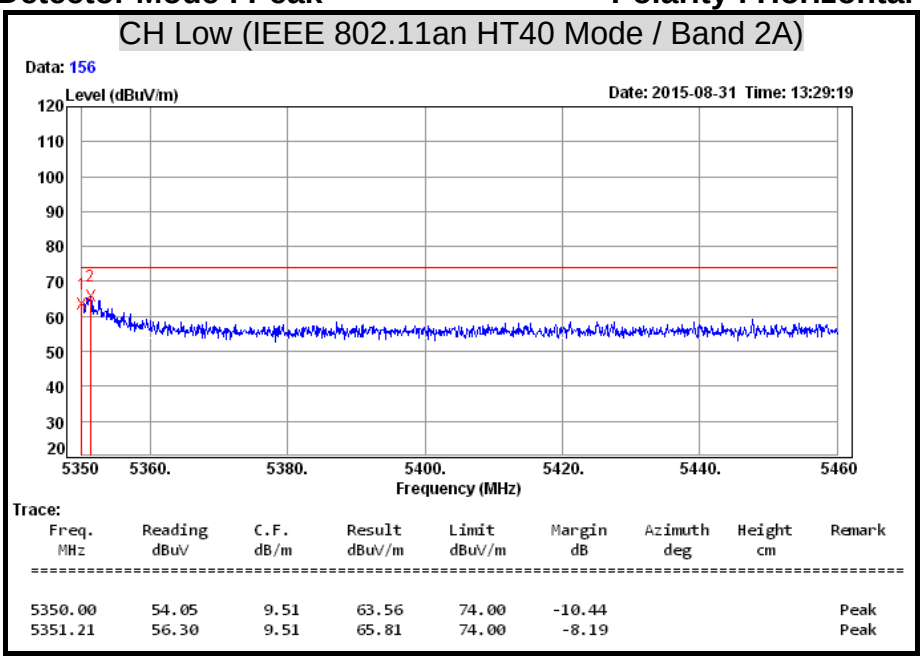
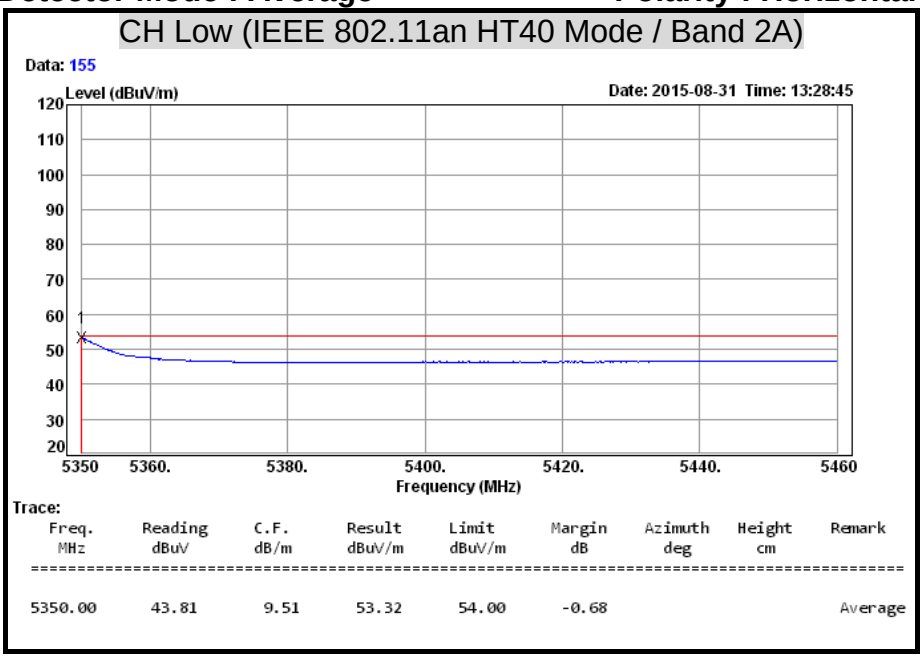
**Detector Mode : Peak** **Polarity : Horizontal**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 54.05 | 9.51 | 63.56 | 74.00 | -10.44 | | | Peak |
| 5351.21 | 56.30 | 9.51 | 65.81 | 74.00 | -8.19 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 43.81 | 9.51 | 53.32 | 54.00 | -0.68 | | | Average |



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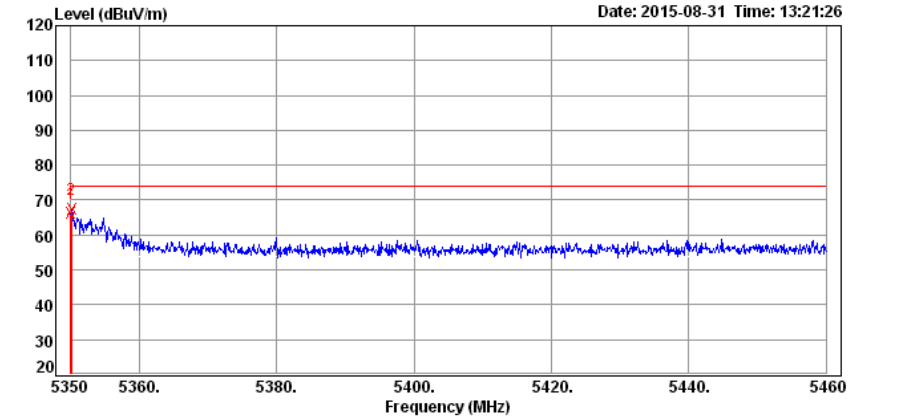
**Detector Mode : Peak** **Polarity : Vertical**

CH Low (IEEE 802.11an HT40 Mode / Band 2A)

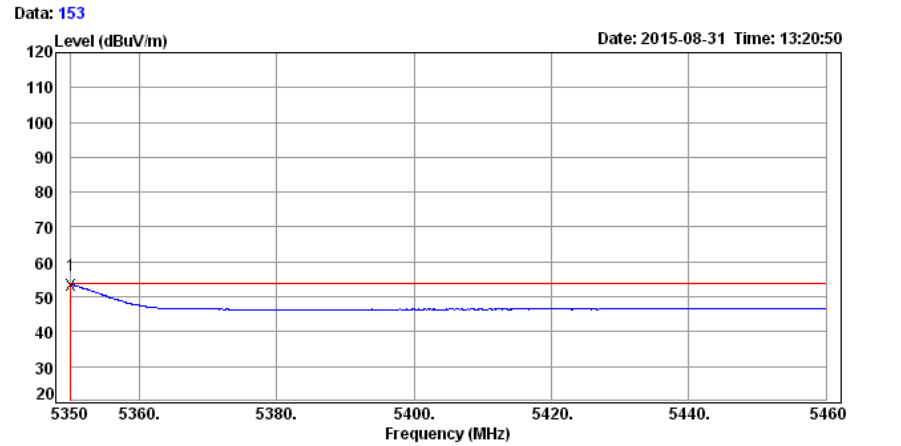



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 56.60 | 9.51 | 66.11 | 74.00 | -7.89 | | | Peak |
| 5350.11 | 57.66 | 9.51 | 67.17 | 74.00 | -6.83 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**

CH Low (IEEE 802.11an HT40 Mode / Band 2A)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5350.00 | 43.93 | 9.51 | 53.44 | 54.00 | -0.56 | | | Average |



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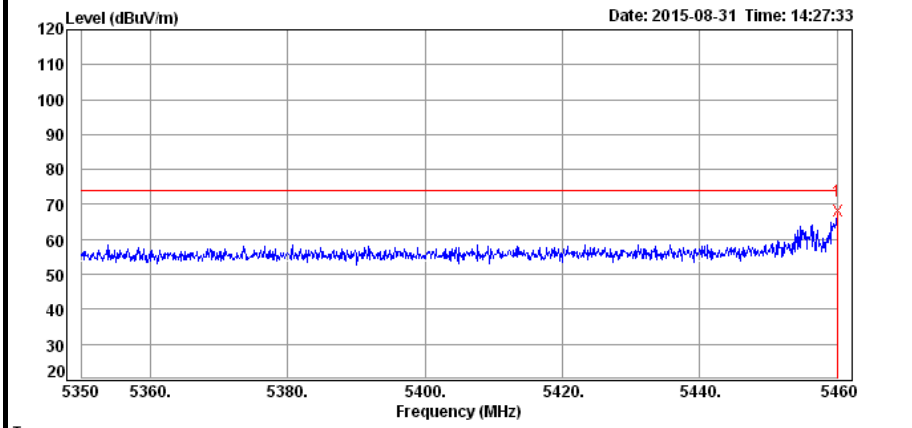
**Detector Mode : Peak** **Polarity : Horizontal**

CH Low (IEEE 802.11a Mode / Band 2C)

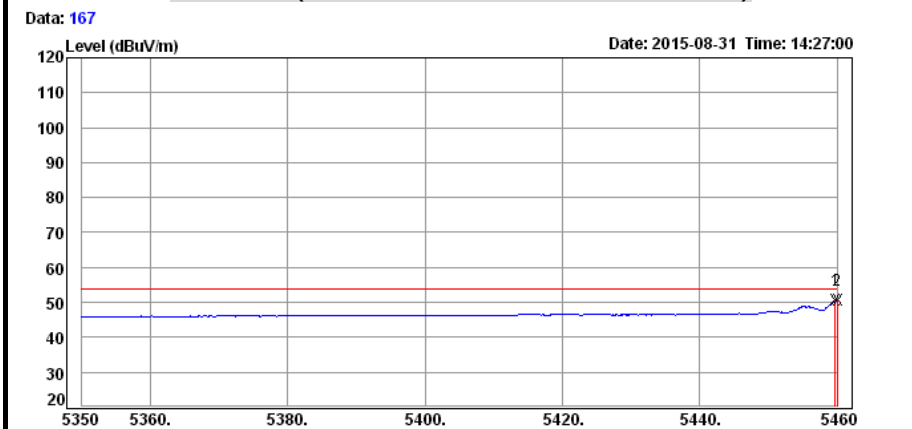



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5460.00 | 58.03 | 9.93 | 67.96 | 74.00 | -6.04 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**

CH Low (IEEE 802.11a Mode / Band 2C)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5459.78 | 40.85 | 9.93 | 50.78 | 54.00 | -3.22 | | | Average |
| 5460.00 | 40.85 | 9.93 | 50.78 | 54.00 | -3.22 | | | Average |



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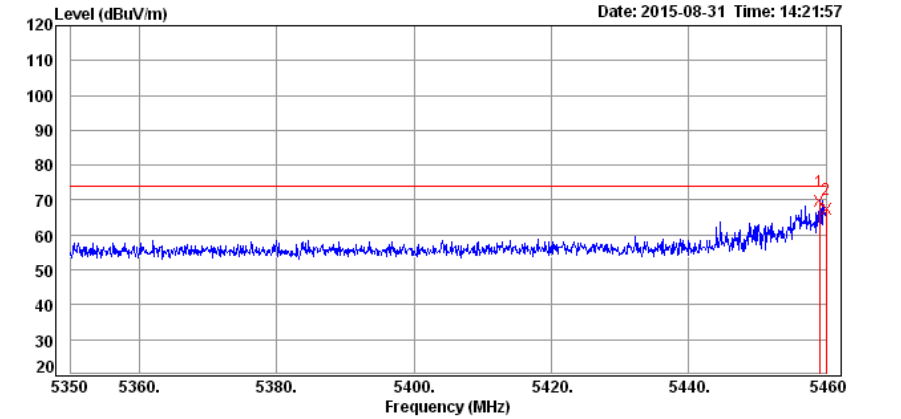
**Detector Mode : Peak** **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 2C)

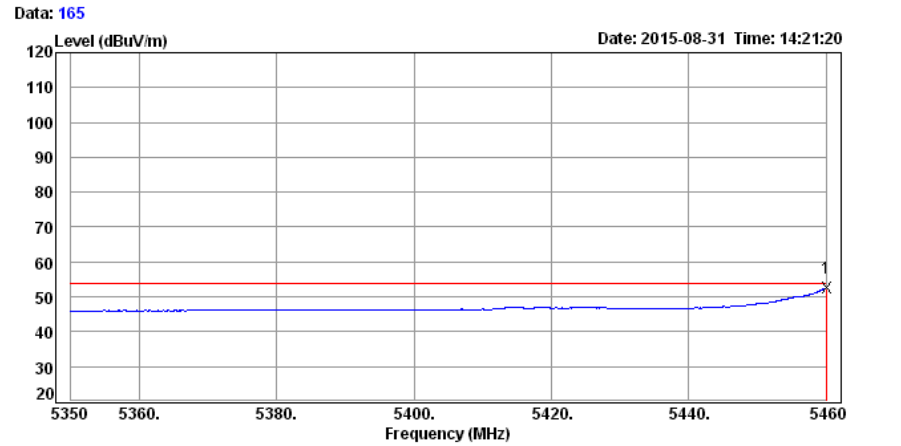



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5459.01 | 59.88 | 9.93 | 69.81 | 74.00 | -4.19 | | | Peak |
| 5460.00 | 57.58 | 9.93 | 67.51 | 74.00 | -6.49 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 2C)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5460.00 | 42.42 | 9.93 | 52.35 | 54.00 | -1.65 | | | Average |



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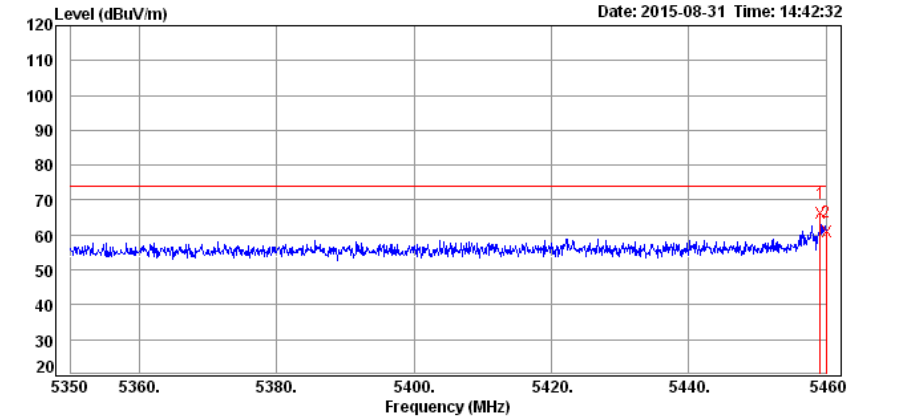
**Detector Mode : Peak** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT20 Mode / Band 2C)

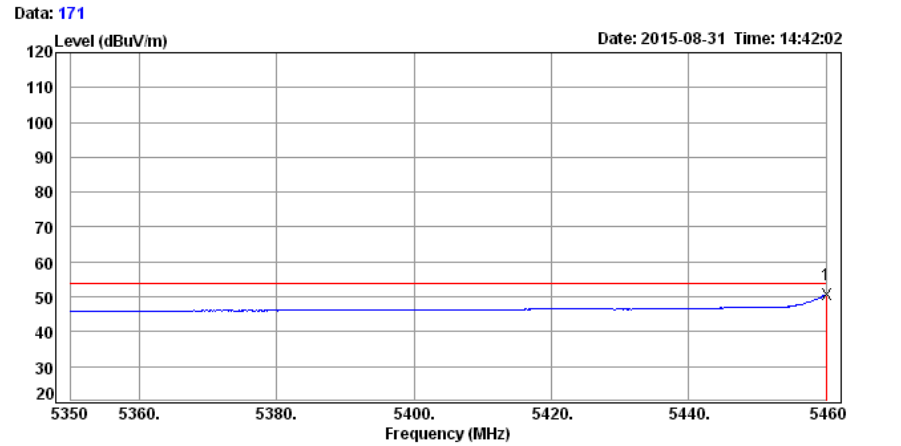



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5459.12 | 56.41 | 9.93 | 66.34 | 74.00 | -7.66 | | | Peak |
| 5460.00 | 50.95 | 9.93 | 60.88 | 74.00 | -13.12 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT20 Mode / Band 2C)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5460.00 | 40.53 | 9.93 | 50.46 | 54.00 | -3.54 | | | Average |



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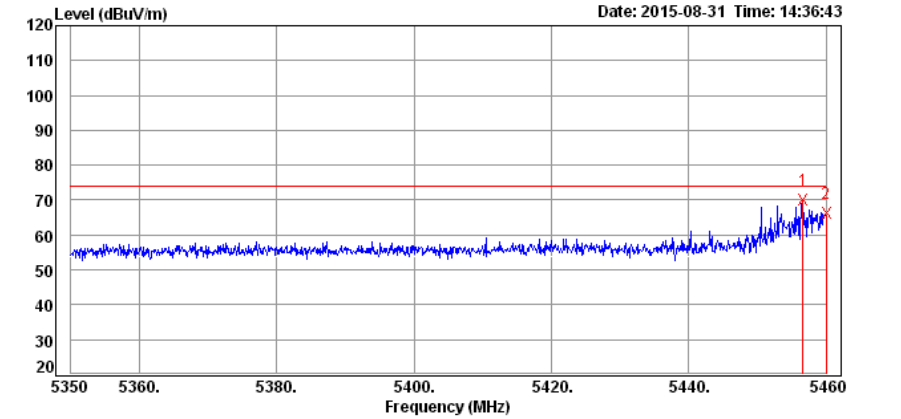
**Detector Mode : Peak** **Polarity : Vertical**

CH Low (IEEE 802.11an HT20 Mode / Band 2C)

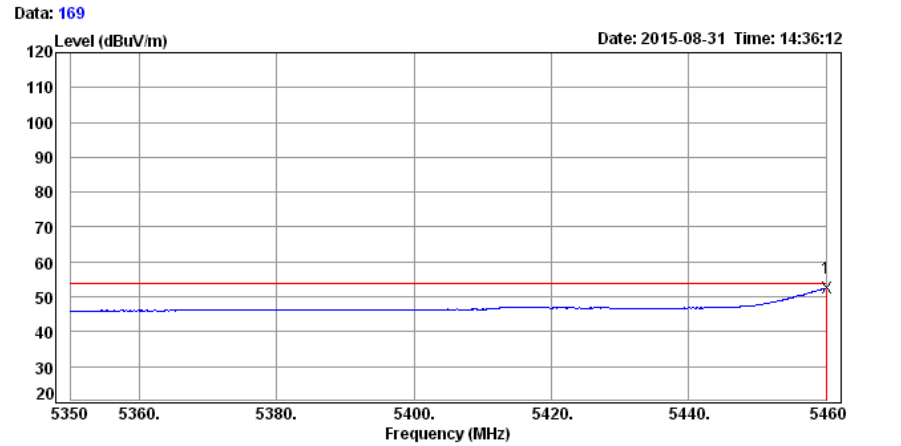



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5456.59 | 60.15 | 9.92 | 70.07 | 74.00 | -3.93 | | | Peak |
| 5460.00 | 56.16 | 9.93 | 66.09 | 74.00 | -7.91 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**

CH Low (IEEE 802.11an HT20 Mode / Band 2C)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5460.00 | 42.51 | 9.93 | 52.44 | 54.00 | -1.56 | | | Average |



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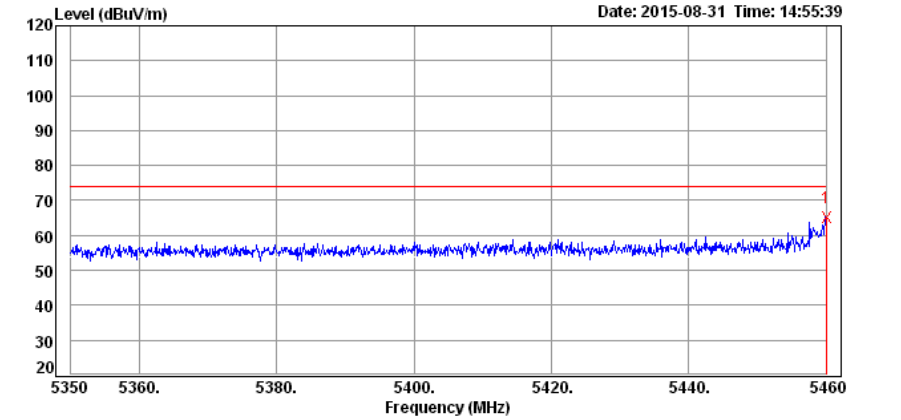
**Detector Mode : Peak** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT40 Mode / Band 2C)

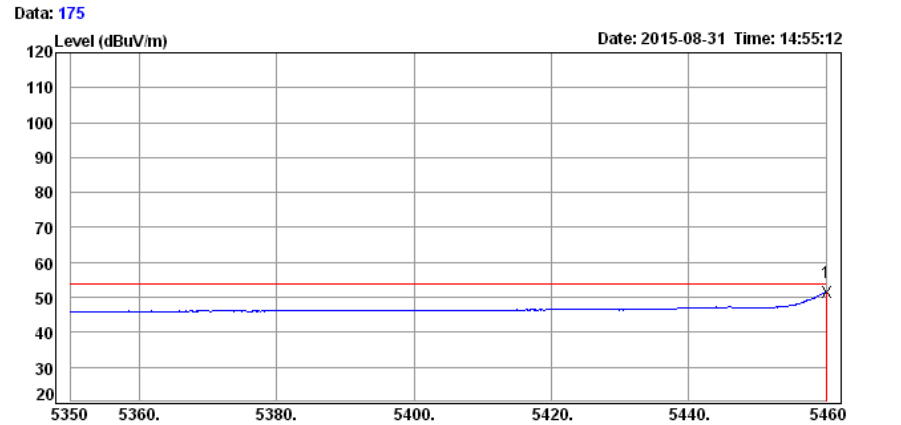



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5460.00 | 55.18 | 9.93 | 65.11 | 74.00 | -8.89 | | | Peak |

**Detector Mode : Average** **Polarity : Horizontal**

CH Low (IEEE 802.11an HT40 Mode / Band 2C)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5460.00 | 41.52 | 9.93 | 51.45 | 54.00 | -2.55 | | | Average |



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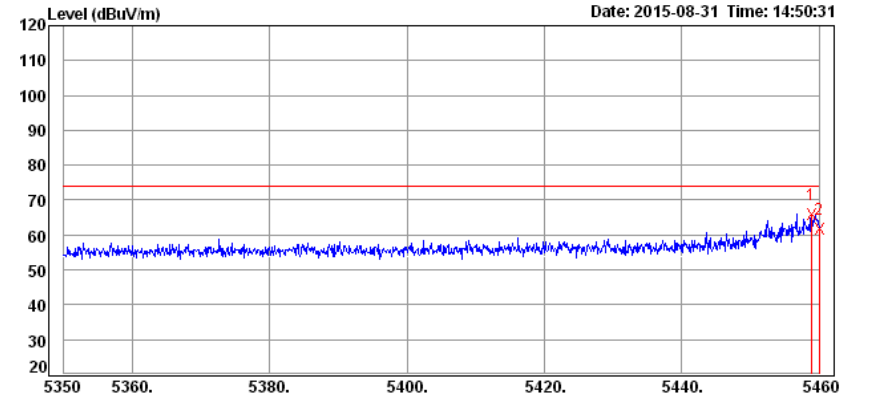
**Detector Mode : Peak** **Polarity : Vertical**

CH Low (IEEE 802.11an HT40 Mode / Band 2C)

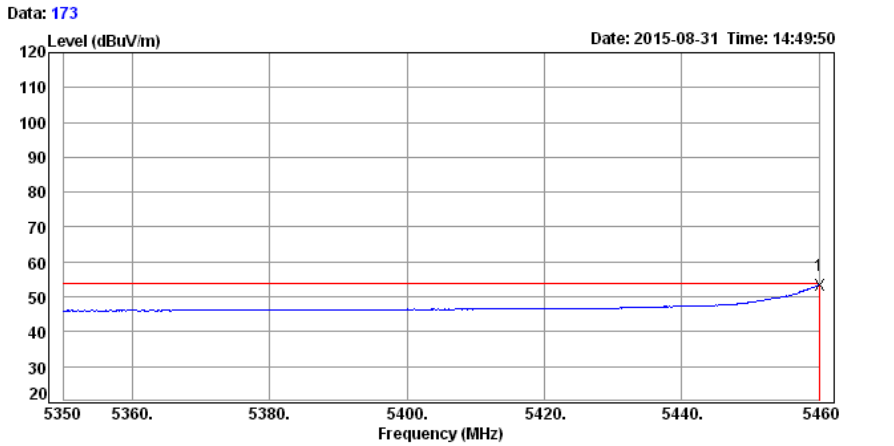



Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5458.90 | 56.03 | 9.93 | 65.96 | 74.00 | -8.04 | | | Peak |
| 5460.00 | 51.77 | 9.93 | 61.70 | 74.00 | -12.30 | | | Peak |

**Detector Mode : Average** **Polarity : Vertical**

CH Low (IEEE 802.11an HT40 Mode / Band 2C)




Trace:

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|---|---|---|---|---|---|---|---|---|
| 5460.00 | 43.49 | 9.93 | 53.42 | 54.00 | -0.58 | | | Average |



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## 7.5 CONDUCTED EMISSION

**LIMITS**

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency Range (MHz) | Conducted Limit (dBμv) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5.00 | 56 | 46 |
| 5.00 - 30.0 | 60 | 50 |

**TEST EQUIPMENT**

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| L.I.S.N | Schwarzbeck | NSLK 8127 | 8127465 | 08/05/2016 |
| L.I.S.N | Schwarzbeck | NSLK 8127 | 8127473 | 03/09/2016 |
| EMI Test Receiver | Rohde & Schwarz | ESHS 30 | 838550/003 | 10/31/2016 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100111 | 06/28/2016 |

***Remark:*** *Each piece of equipment is scheduled for calibration once a year.*


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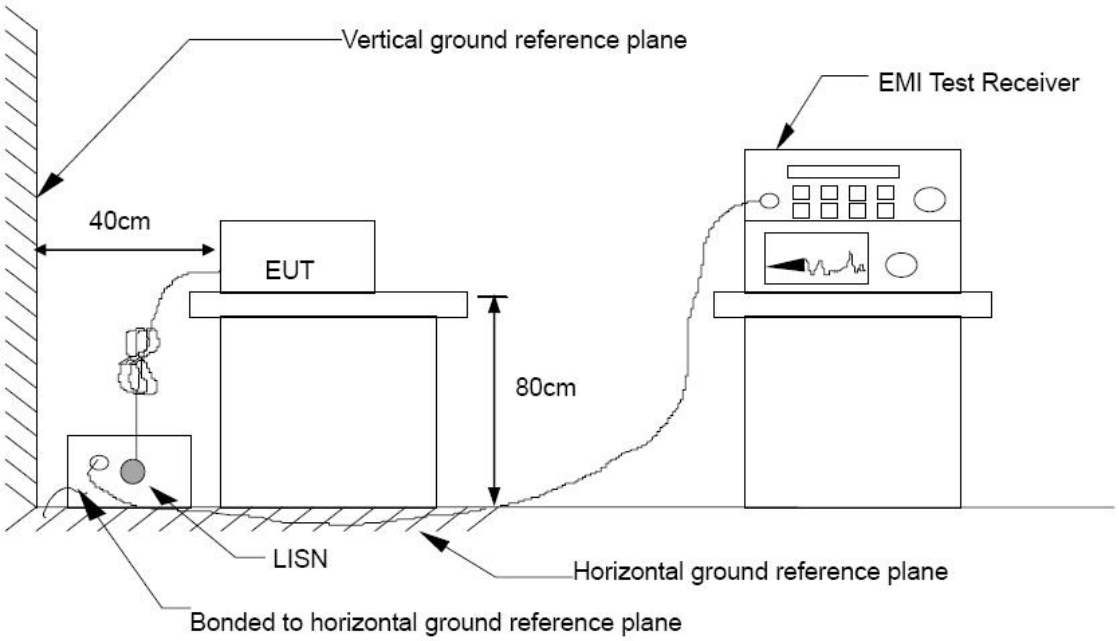
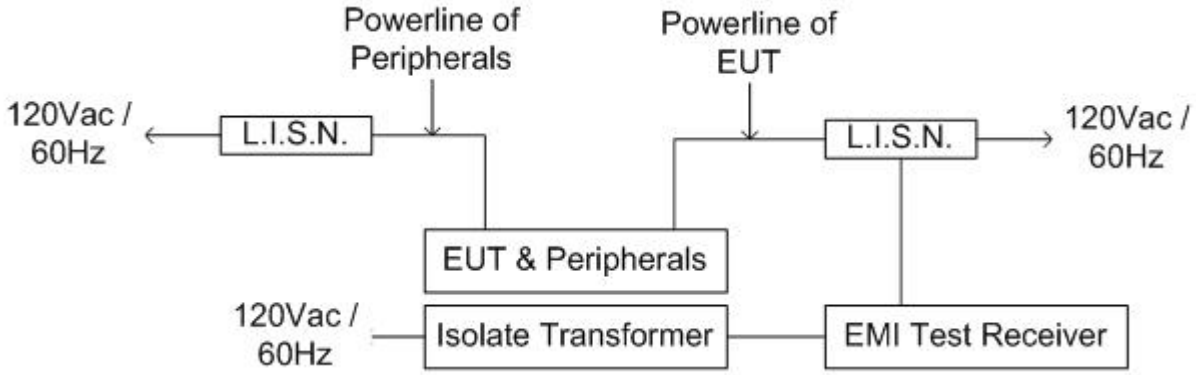
## TEST SETUP





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## TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2013.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.



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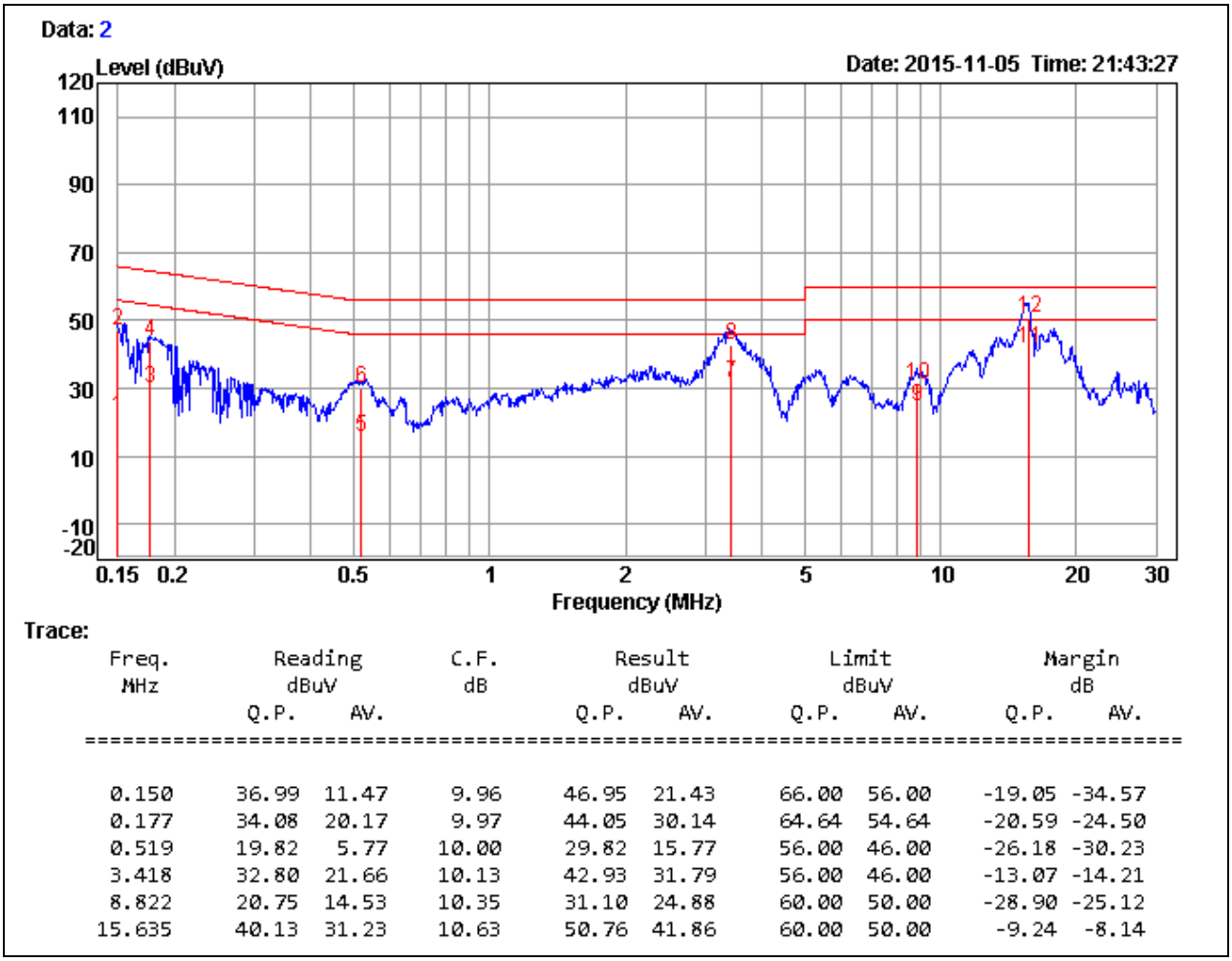
## TEST RESULTS

| Product Name | Computer | Test By | Crystal Wu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/11/05 |
| Test Mode | TX Mode | Temp. & Humidity | 28.9°C, 41% |

LINE




Trace:

| Freq. MHz | Reading dBuV Q.P. | Reading dBuV AV. | C.F. dB | Result dBuV Q.P. | Result dBuV AV. | Limit dBuV Q.P. | Limit dBuV AV. | Margin dB Q.P. | Margin dB AV. |
|---|---|---|---|---|---|---|---|---|---|
| 0.150 | 36.99 | 11.47 | 9.96 | 46.95 | 21.43 | 66.00 | 56.00 | -19.05 | -34.57 |
| 0.177 | 34.08 | 20.17 | 9.97 | 44.05 | 30.14 | 64.64 | 54.64 | -20.59 | -24.50 |
| 0.519 | 19.82 | 5.77 | 10.00 | 29.82 | 15.77 | 56.00 | 46.00 | -26.18 | -30.23 |
| 3.418 | 32.80 | 21.66 | 10.13 | 42.93 | 31.79 | 56.00 | 46.00 | -13.07 | -14.21 |
| 8.822 | 20.75 | 14.53 | 10.35 | 31.10 | 24.88 | 60.00 | 50.00 | -28.90 | -25.12 |
| 15.635 | 40.13 | 31.23 | 10.63 | 50.76 | 41.86 | 60.00 | 50.00 | -9.24 | -8.14 |

***Remark:***

*1. Correction Factor = Insertion loss + Cable loss*
*2. Result level = Reading Value + Correction factor*
*3. Margin value = Result level – Limit value*



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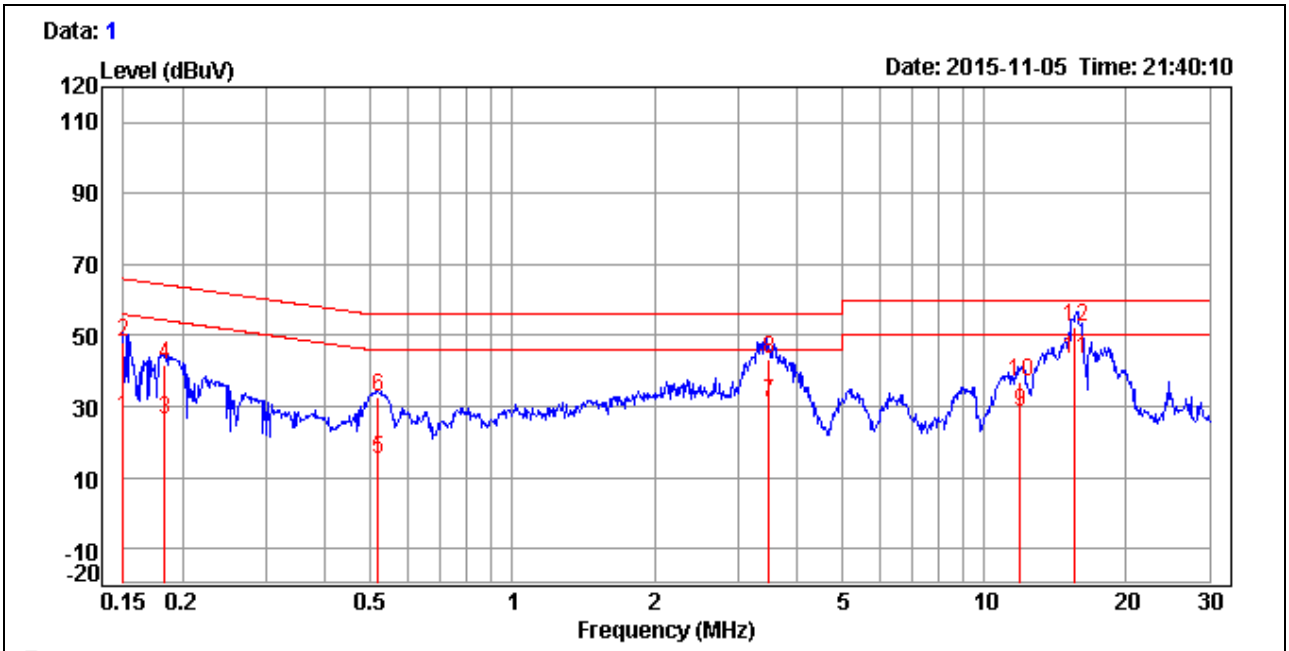
| Product Name | Computer | Test By | Crystal Wu |
|---|---|---|---|
| Test Model | MIT-W101 | Test Date | 2015/11/05 |
| Test Mode | TX Mode | Temp. & Humidity | 28.9°C, 41% |

NEUTRAL




Trace:

| Freq. MHz | Reading dBuV Q.P. | Reading dBuV AV. | C.F. dB | Result dBuV Q.P. | Result dBuV AV. | Limit dBuV Q.P. | Limit dBuV AV. | Margin dB Q.P. | Margin dB AV. |
|---|---|---|---|---|---|---|---|---|---|
| 0.150 | 38.22 | 16.74 | 9.98 | 48.20 | 26.72 | 66.00 | 56.00 | -17.80 | -29.28 |
| 0.183 | 31.96 | 16.58 | 9.99 | 41.95 | 26.57 | 64.33 | 54.33 | -22.38 | -27.76 |
| 0.516 | 22.42 | 5.16 | 10.02 | 32.44 | 15.18 | 56.00 | 46.00 | -23.56 | -30.82 |
| 3.482 | 33.31 | 21.06 | 10.13 | 43.44 | 31.19 | 56.00 | 46.00 | -12.56 | -14.81 |
| 11.870 | 26.52 | 17.83 | 10.38 | 36.90 | 28.21 | 60.00 | 50.00 | -23.10 | -21.79 |
| 15.551 | 41.96 | 32.88 | 10.47 | 52.43 | 43.35 | 60.00 | 50.00 | -7.57 | -6.65 |

***Remark:***

*1. Correction Factor = Insertion loss + Cable loss*
*2. Result level = Reading Value + Correction factor*
*3. Margin value = Result level – Limit value*



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# 7.6 FREQUENCY STABILITY

## LIMITS

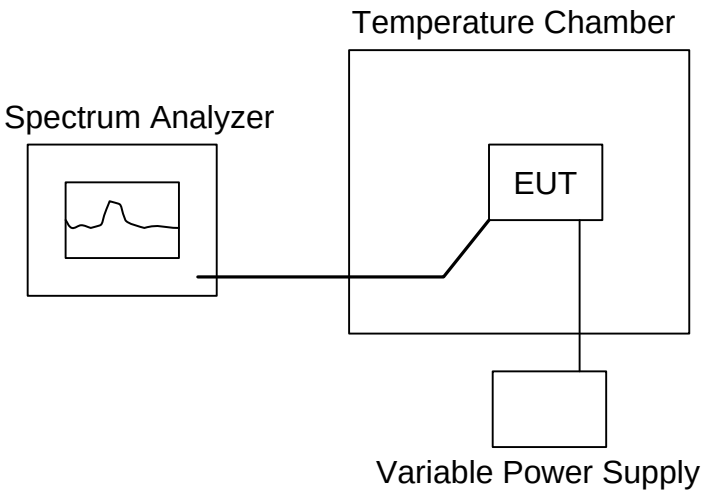
§ 15.407 (g) manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

## TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|---|---|---|---|---|
| EXA Signal Analyzer | Agilent | N9010A | MY52220817 | 03/19/2016 |
| Temp. & Humid. Chamber | TERCHY | MHC-120L | 960424 | 09/09/2015 |

***Remark:*** *Each piece of equipment is scheduled for calibration once a year.*

## TEST SETUP





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**TEST PROCEDURE**

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the environment into appropriate environment.
4. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
5. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
6. Repeat until all the results are investigated.


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## TEST RESULTS

**IEEE 802.11a mode**

| U-NII | Channel | Channel Frequency (MHz) | Measured Frequency (MHz) | Delta Frequency (kHz) | 20 ppm Limit (kHz) | Margin (kHz) |
|---|---|---|---|---|---|---|
| Band 1 | Low | 5180 | 5179.977927 | -22.07 | 103.60 | -81.53 |
| | Middle | 5220 | 5219.977456 | -22.54 | 104.40 | -81.86 |
| | High | 5240 | 5239.977422 | -22.58 | 104.80 | -82.22 |
| Band 2A | Low | 5260 | 5259.977363 | -22.64 | 105.20 | -82.56 |
| | Middle | 5280 | 5279.977412 | -22.59 | 105.60 | -83.01 |
| | High | 5320 | 5319.977398 | -22.60 | 106.40 | -83.80 |
| Band 2C | Low | 5500 | 5499.977427 | -22.57 | 110.00 | -87.43 |
| | Middle | 5580 | 5579.977476 | -22.52 | 111.60 | -89.08 |
| | High | 5700 | 5699.977427 | -22.57 | 114.00 | -91.43 |
| Band 3 | Low | 5745 | 5744.975917 | -24.08 | 114.90 | -90.82 |
| | Middle | 5785 | 5784.974477 | -25.52 | 115.70 | -90.18 |
| | High | 5825 | 5824.974477 | -25.52 | 116.50 | -90.98 |


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**IEEE 802.11an HT20 Mode**

| U-NII | Channel | Channel Frequency (MHz) | Measured Frequency (MHz) | Delta Frequency (kHz) | 20 ppm Limit (kHz) | Margin (kHz) |
|---|---|---|---|---|---|---|
| Band 1 | Low | 5180 | 5179.977137 | -22.86 | 103.60 | -80.74 |
| | Middle | 5220 | 5219.977315 | -22.68 | 104.40 | -81.72 |
| | High | 5240 | 5239.987385 | -12.61 | 104.80 | -92.19 |
| Band 2A | Low | 5260 | 5259.979362 | -20.64 | 105.20 | -84.56 |
| | Middle | 5280 | 5279.981644 | -18.36 | 105.60 | -87.24 |
| | High | 5320 | 5319.981477 | -18.52 | 106.40 | -87.88 |
| Band 2C | Low | 5500 | 5499.977672 | -22.33 | 110.00 | -87.67 |
| | Middle | 5580 | 5579.977147 | -22.85 | 111.60 | -88.75 |
| | High | 5700 | 5699.981529 | -18.47 | 114.00 | -95.53 |
| Band 3 | Low | 5745 | 5744.978827 | -21.17 | 114.90 | -93.73 |
| | Middle | 5785 | 5784.977247 | -22.75 | 115.70 | -92.95 |
| | High | 5825 | 5824.977874 | -22.13 | 116.50 | -94.37 |


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**IEEE 802.11an HT40 Mode**

| U-NII | Channel | Channel Frequency (MHz) | Measured Frequency (MHz) | Delta Frequency (kHz) | 20 ppm Limit (kHz) | Margin (kHz) |
|---|---|---|---|---|---|---|
| Band1 | Low | 5190 | 5189.977683 | -22.32 | 103.80 | -81.48 |
| | High | 5230 | 5229.977696 | -22.30 | 104.60 | -82.30 |
| Band 2A | Low | 5270 | 5269.978238 | -21.76 | 105.40 | -83.64 |
| | High | 5310 | 5309.978211 | -21.79 | 106.20 | -84.41 |
| Band 2C | Low | 5510 | 5509.978311 | -21.69 | 110.20 | -88.51 |
| | Middle | 5550 | 5549.977477 | -22.52 | 111.00 | -88.48 |
| | High | 5670 | 5669.974247 | -25.75 | 113.40 | -87.65 |
| Band 3 | Low | 5755 | 5754.972638 | -27.36 | 115.10 | -87.74 |
| | High | 5795 | 5794.974174 | -25.83 | 115.90 | -90.07 |


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