

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

**For**

**Computer**

**Model : MIT-W101 ; MIT-W101XXXXXXXXXXXXXXXXXX**  
(where "X" may be any alphanumeric character , "-" or blank)

**Trade Name : ADVANTECH**

**Issued for**

**Advantech Co. Ltd.**

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**Issued by**

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## Revision History

<b>Rev.</b>	<b>Issue Date</b>	<b>Revisions</b>	<b>Effect Page</b>	<b>Revised By</b>
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-W101XXXXXXXXXXXXXXXXXXXX  
 (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

## 2. EUT DESCRIPTION

<b>Product Name</b>	Computer
<b>Model Number</b>	MIT-W101; MIT-W101XXXXXXXXXXXXXXXXXX (where "X" may be any alphanumeric character , "-" or blank)
<b>Identify Number</b>	T150723L02
<b>Received Date</b>	July 23, 2015
<b>Frequency Range</b>	<p>UNII Band 1: IEEE 802.11a, 802.11an HT20 : 5180MHz ~ 5240MHz IEEE 802.11an HT40 : 5190MHz ~ 5230MH</p> <p>UNII Band 2A: IEEE 802.11a, 802.11an HT20 : 5260MHz ~ 5320MHz IEEE 802.11an HT40 : 5270MHz ~ 5310MHz</p> <p>UNII Band 2C: IEEE 802.11a, 802.11an HT20 : 5500MHz ~ 5700MHz IEEE 802.11an HT40 : 5510MHz ~ 5670MHz (Exclude 5600MHz ~ 5650MHz)</p> <p>UNII Band 3: IEEE 802.11a, 802.11an HT20 : 5745MHz ~ 5825MHz IEEE 802.11an HT40 : 5755MHz ~ 5795MHz</p>
<b>Transmit Power</b>	<p>UNII Band 1: IEEE 802.11a : 16.16dBm (0.0413W) IEEE 802.11an HT20 : 16.38dBm (0.0435W) IEEE 802.11an HT40 : 16.30dBm (0.0427W)</p> <p>UNII Band 2A: IEEE 802.11a : 16.26dBm (0.0423W) IEEE 802.11an HT20 : 16.28dBm (0.0425W) IEEE 802.11an HT40 : 15.99dBm (0.0397W)</p> <p>UNII Band 2C: IEEE 802.11a : 16.14dBm (0.0411W) IEEE 802.11an HT20 : 16.03dBm (0.0401W) IEEE 802.11an HT40 : 16.13dBm (0.0410 W)</p> <p>UNII Band 3: IEEE 802.11a : 16.27dBm (0.0424W) IEEE 802.11an HT20 : 15.36dBm (0.0344W) IEEE 802.11an HT40 : 15.66dBm (0.0368W)</p>
<b>Channel Spacing</b>	<p>IEEE 802.11a, 802.11an HT20 : 20MHz IEEE 802.11an HT40 : 40MHz</p>

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

**The difference of the series model**

Model Number	Difference
MIT-W101	1. For marketing purpose only.
MIT-W101XXXXXXXXXXXXXXXXXXXX	2. where "X" may be any alphanumeric character , “-” or blank

**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.

### 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.



**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.

**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.

## 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.

<b>Taiwan</b>	TAF
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The measuring facility of laboratories has been authorized or registered by the following approval agencies.

<b>Canada</b>	INDUSTRY CANADA
<b>Japan</b>	VCCI
<b>Taiwan</b>	BSMI
<b>USA</b>	FCC MRA

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

### 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.

## 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

**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.

## 7. FCC PART 15.407 REQUIREMENTS

### 7.1 26dB BANDWIDTH

#### LIMITS

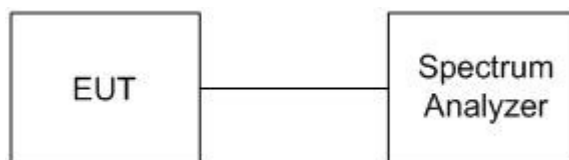
§ 15.303 (c), For purposes of this subpart, the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. 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%.

**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)**

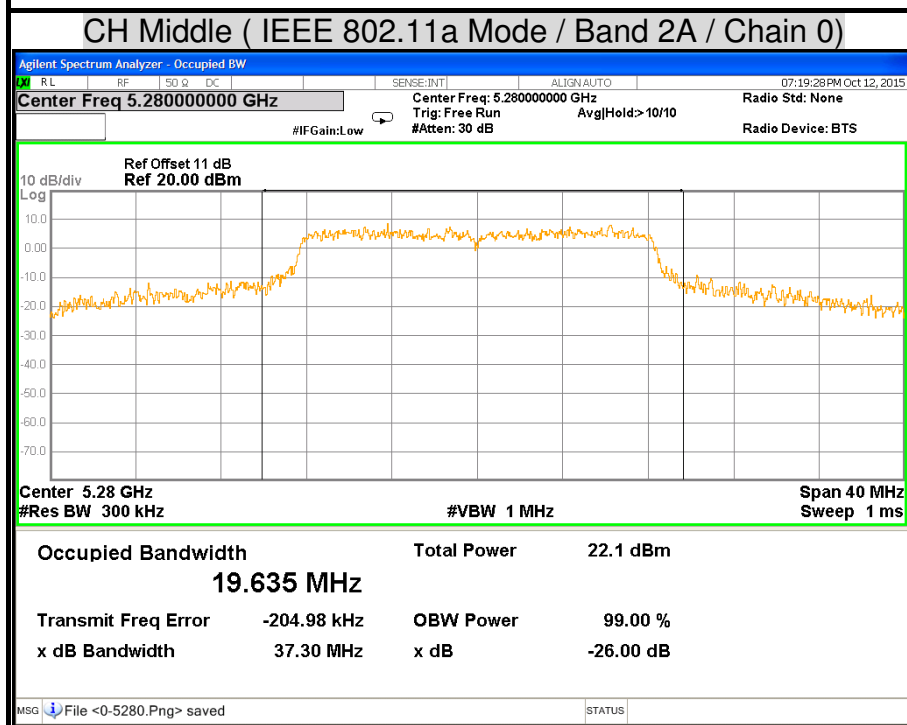
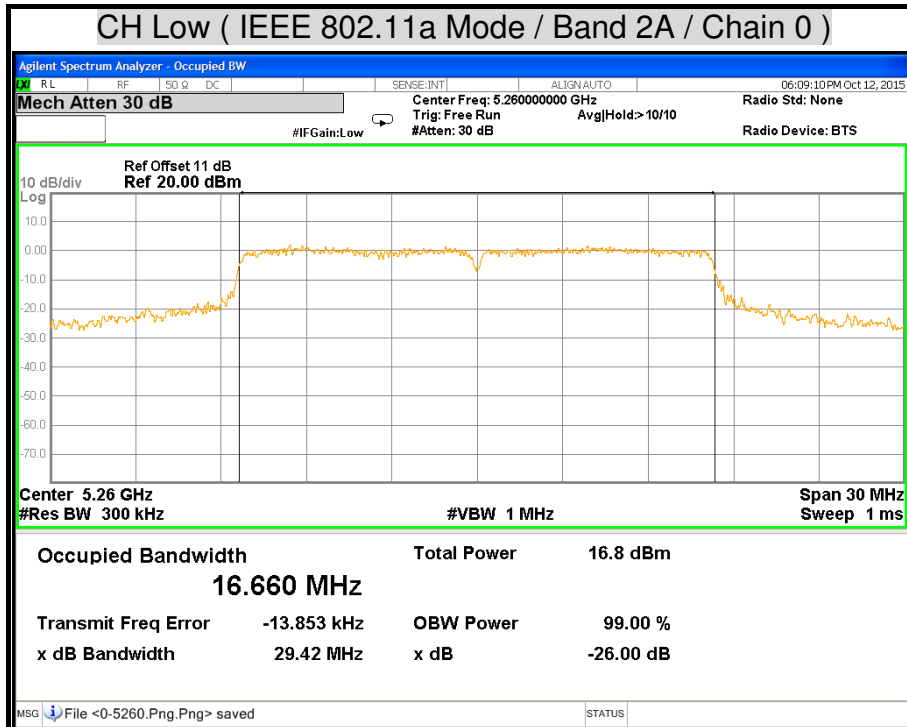
U-NII	Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)	
			Chain 0	Chain 1
Band 2A	Low	5260	39.45	29.94
	Middle	5280	38.72	29.38
	High	5320	29.99	28.00
Band 2C	Low	5500	39.31	29.89
	Middle	5580	39.86	39.14
	High	5700	28.38	26.02

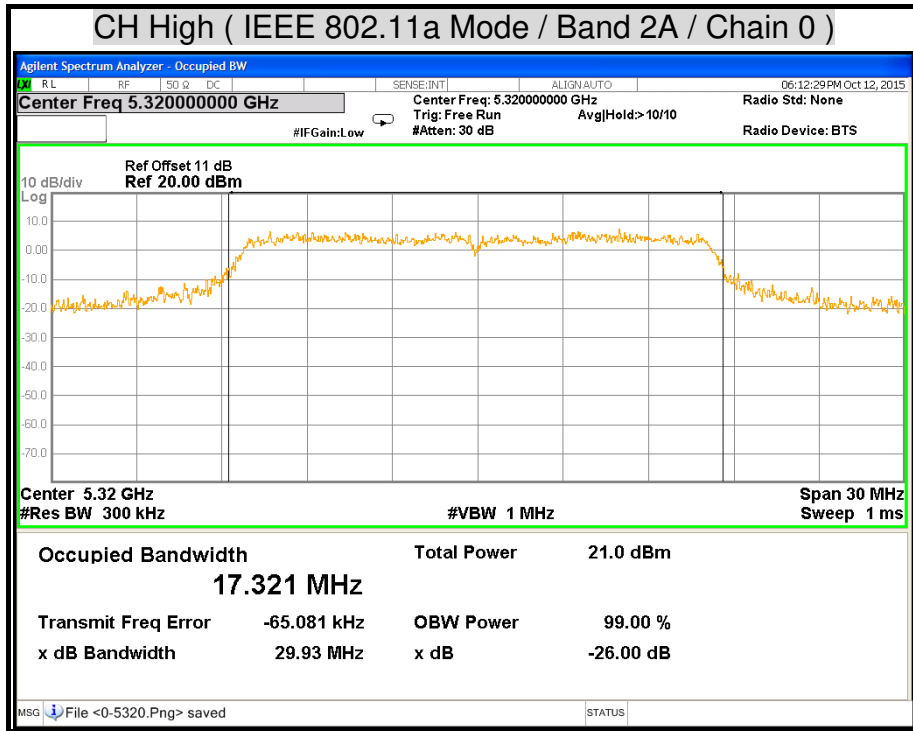
**IEEE 802.11an HT40 Mode (Two TX)**

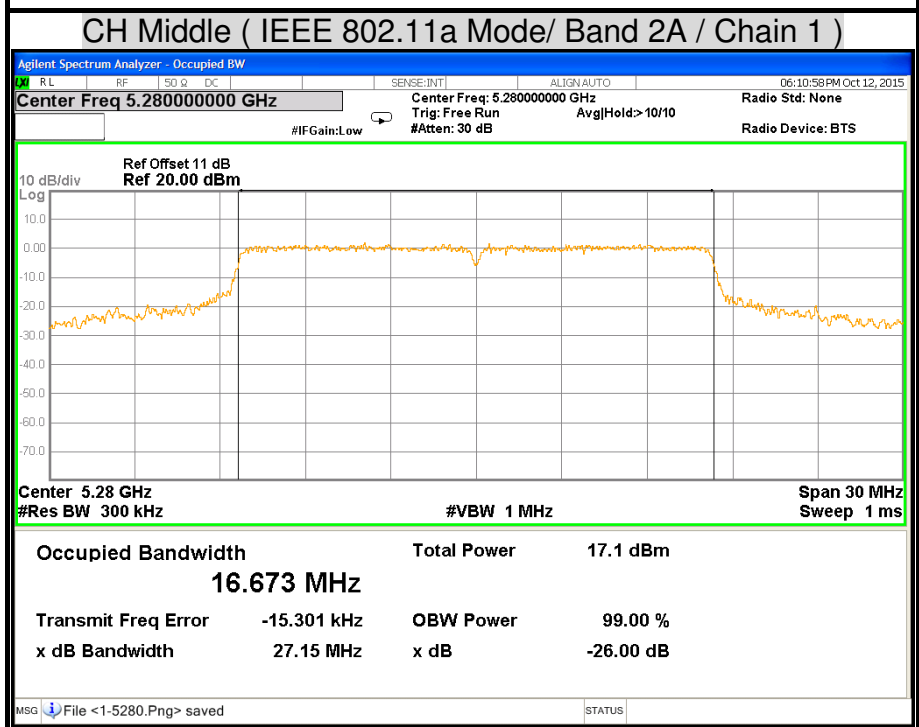
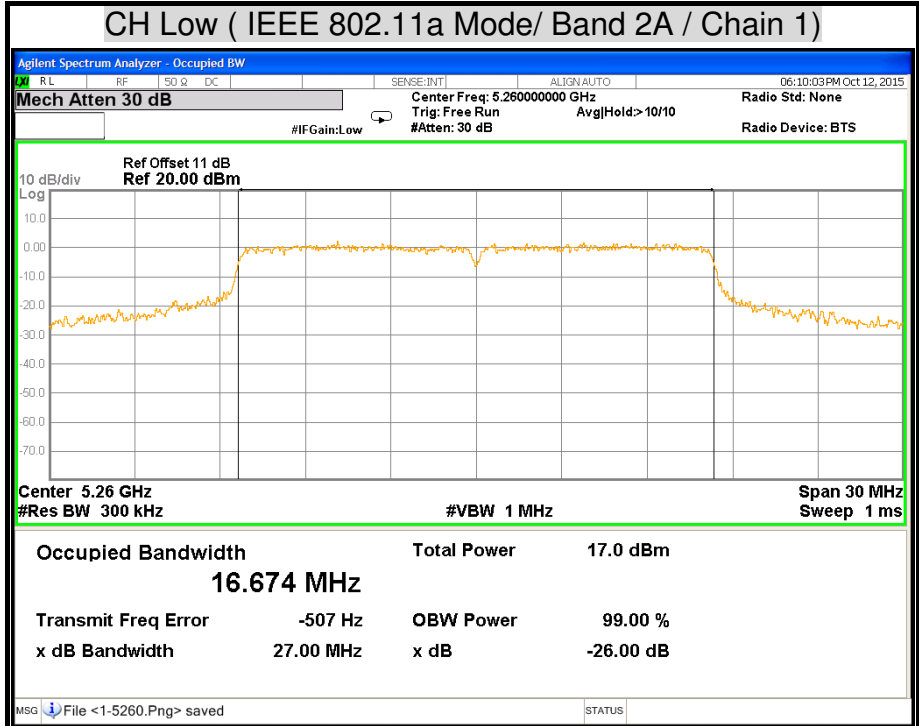
U-NII	Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)	
			Chain 0	Chain 1
Band 2A	Low	5270	47.84	41.23
	High	5310	42.20	40.73
Band 2C	Low	5510	41.87	40.20
	Middle	5550	45.04	41.72
	High	5670	51.09	43.87

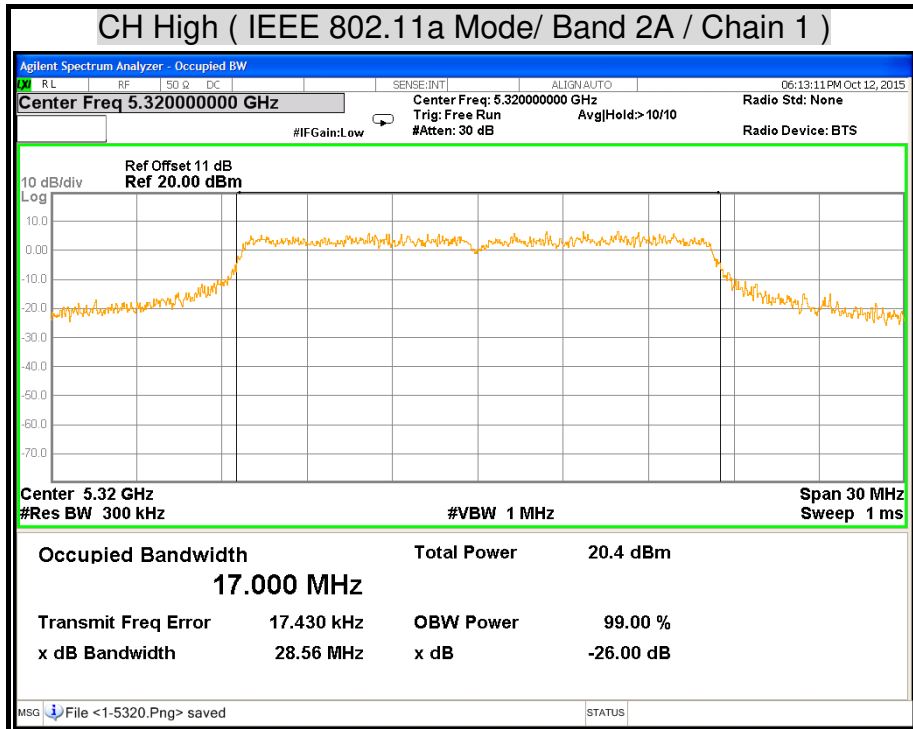


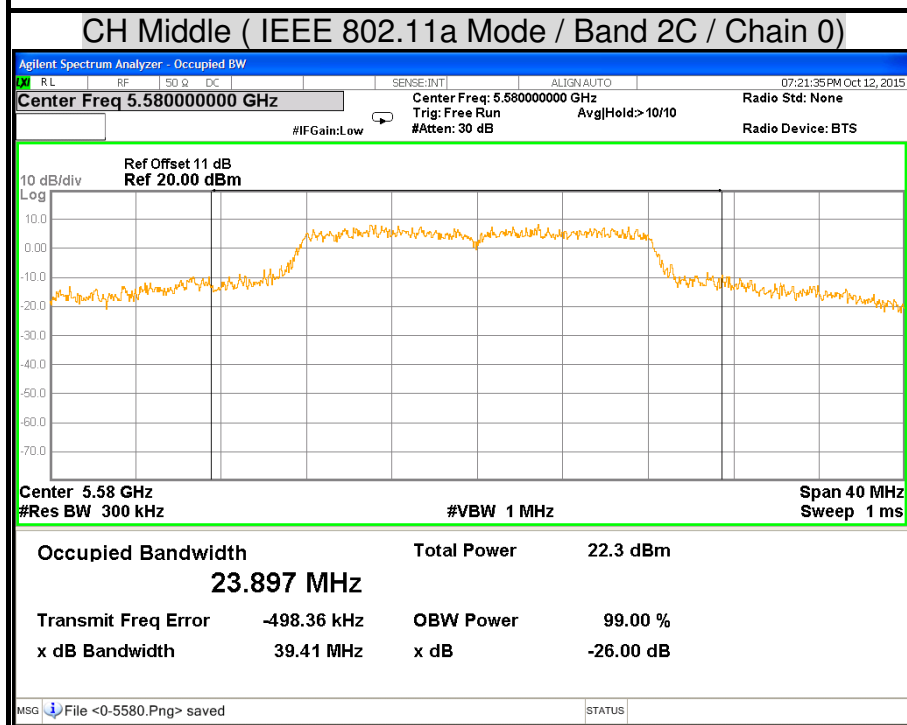
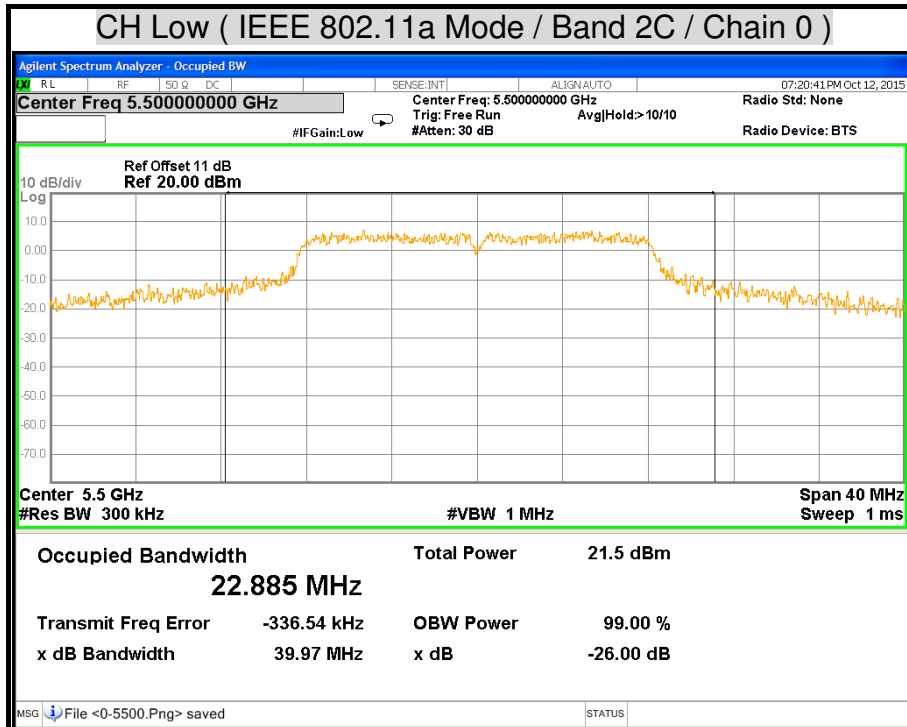
**26dB BANDWIDTH**

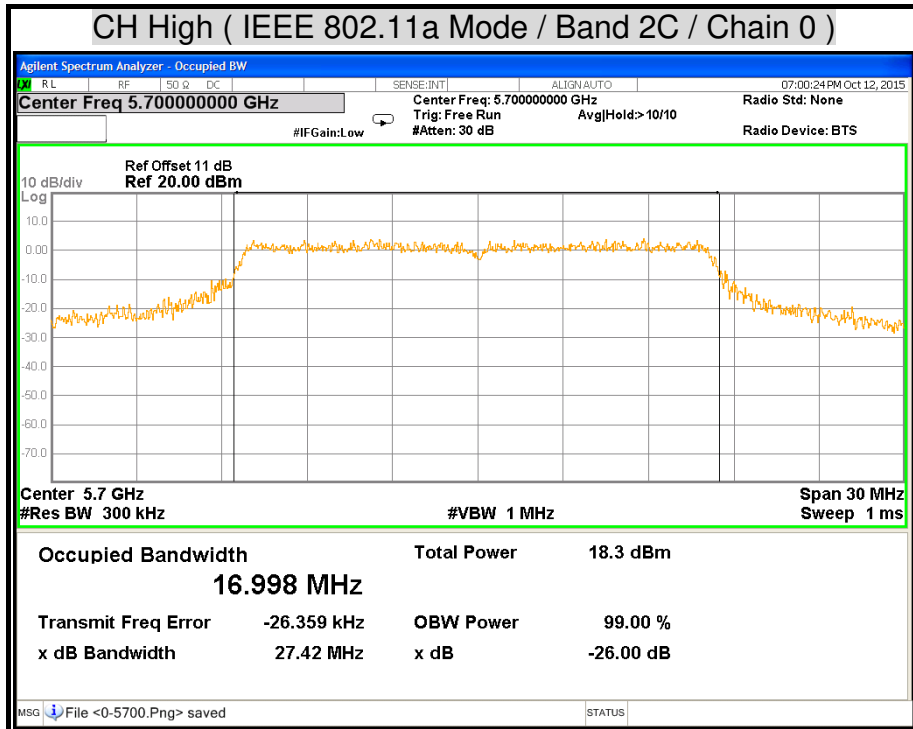


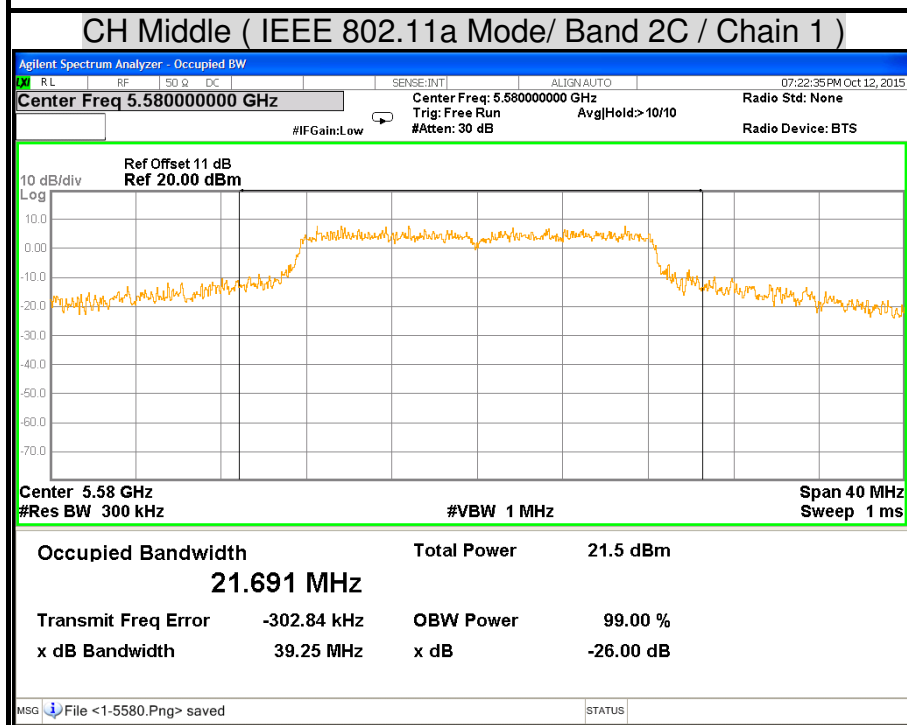
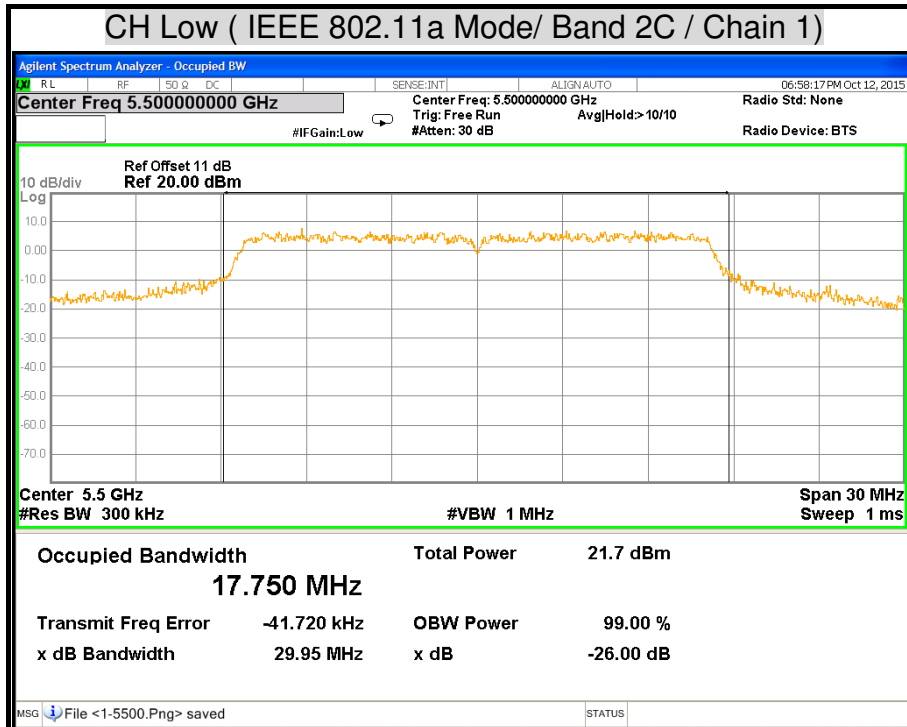


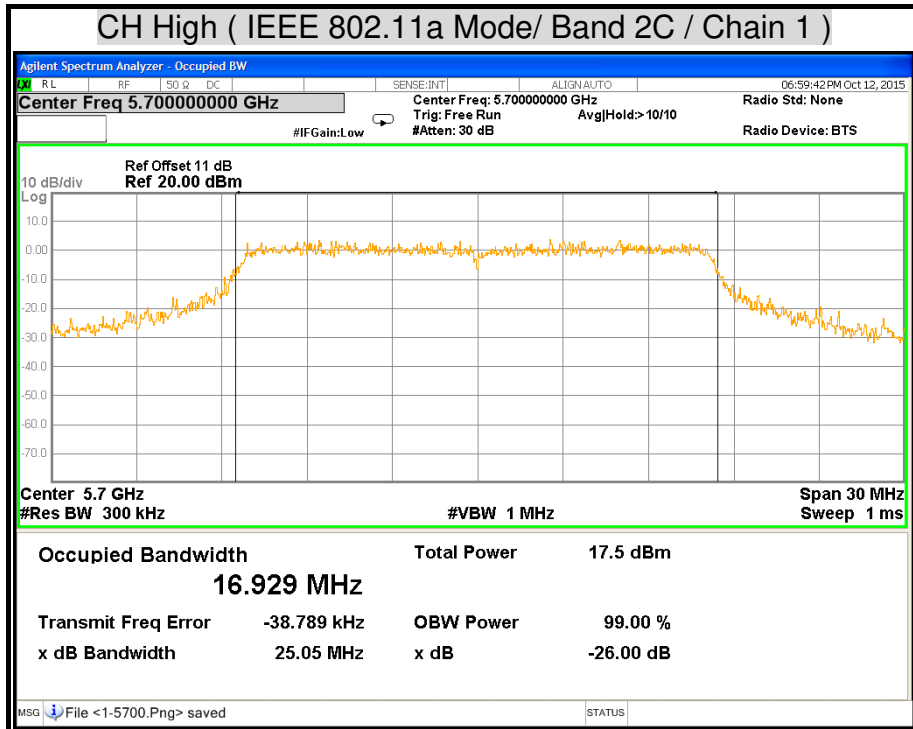




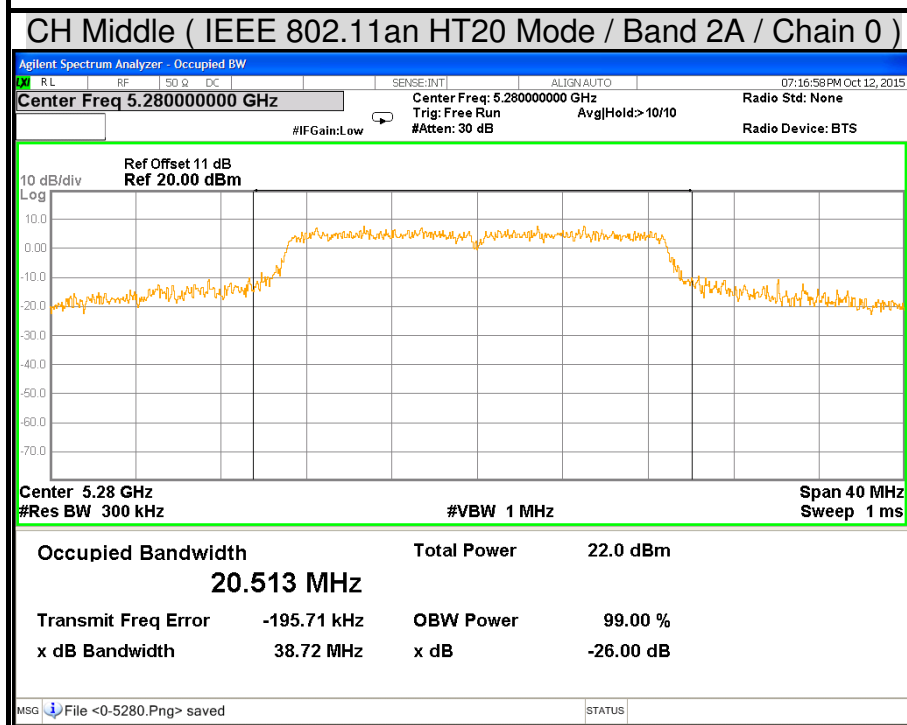
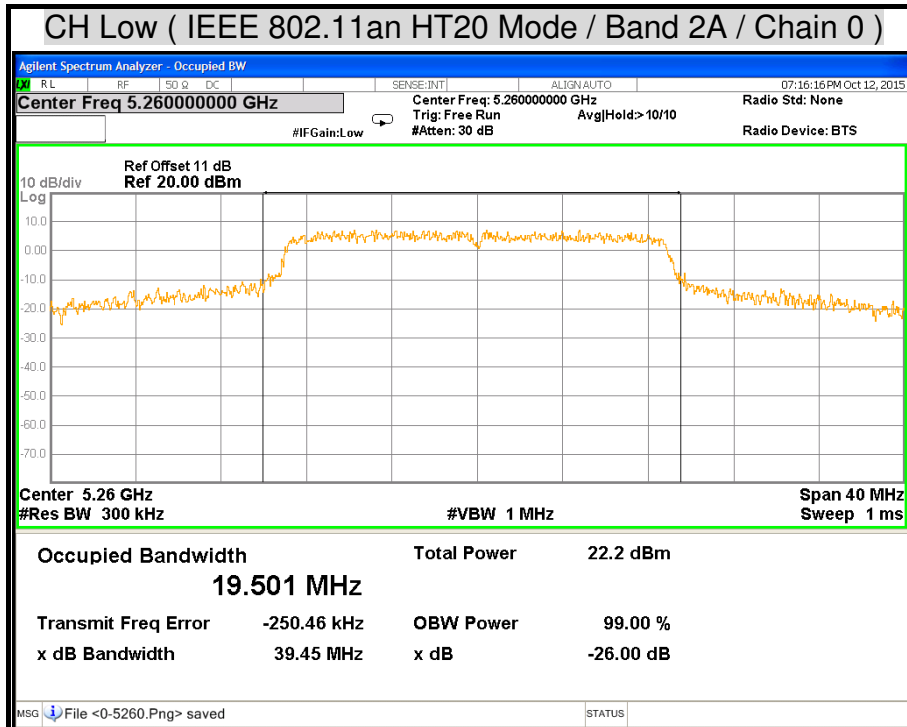


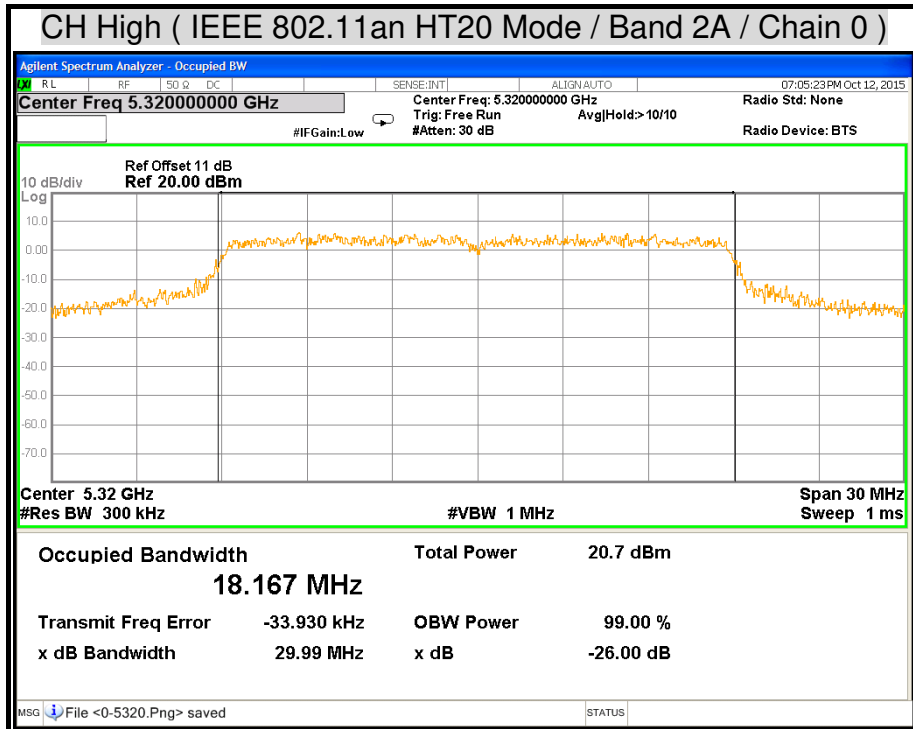


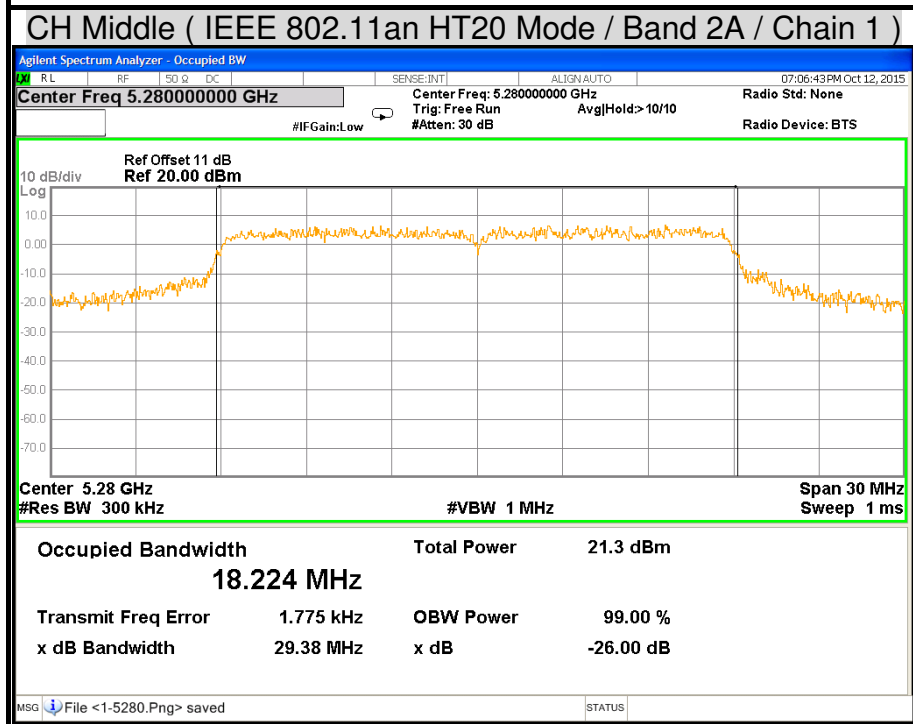
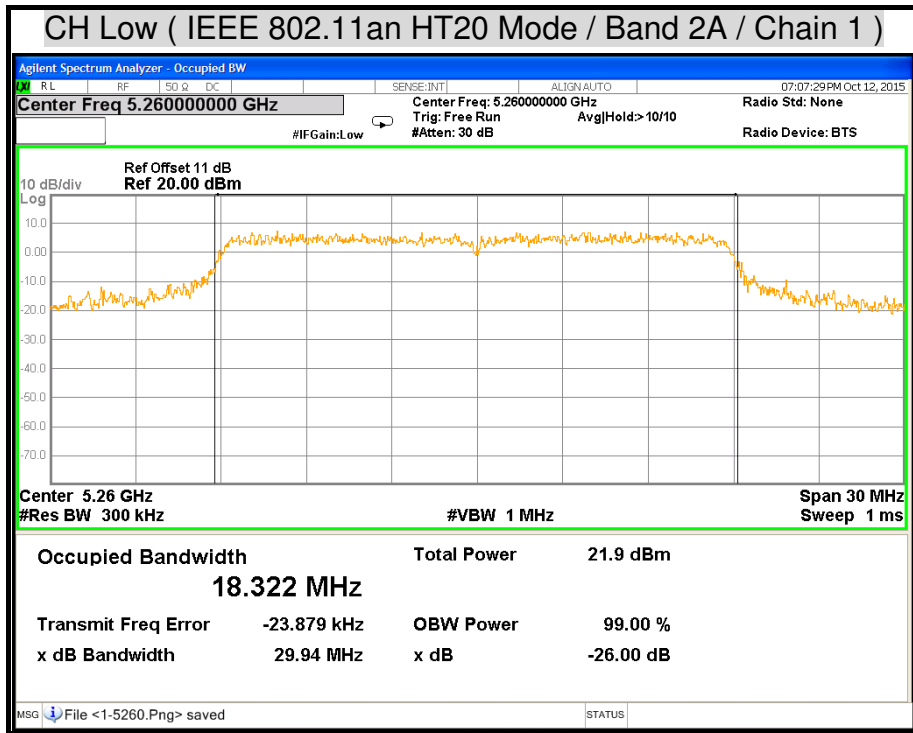


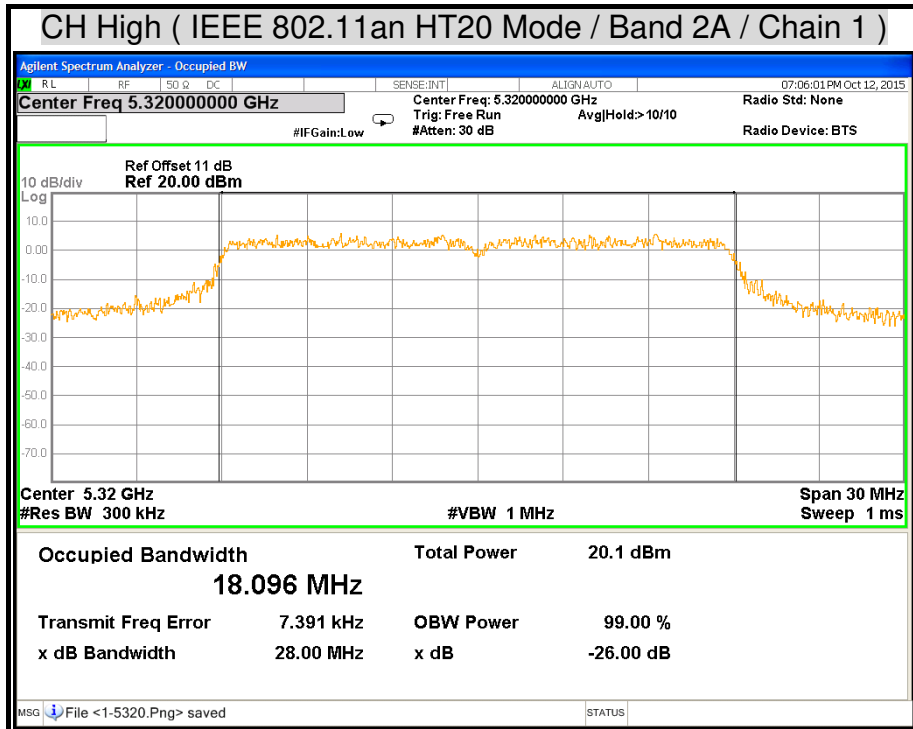


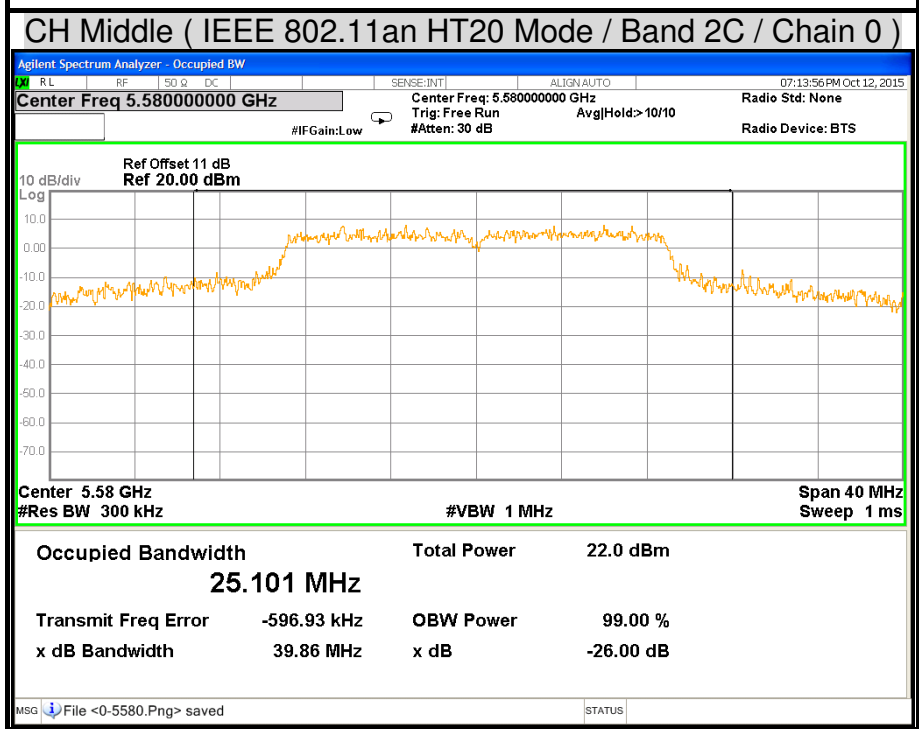
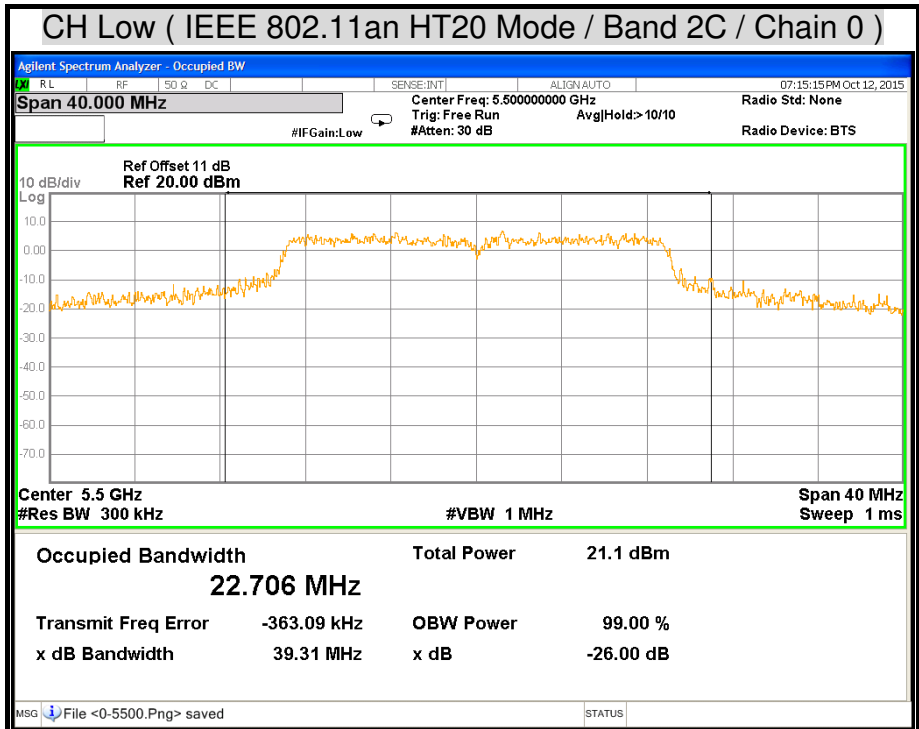


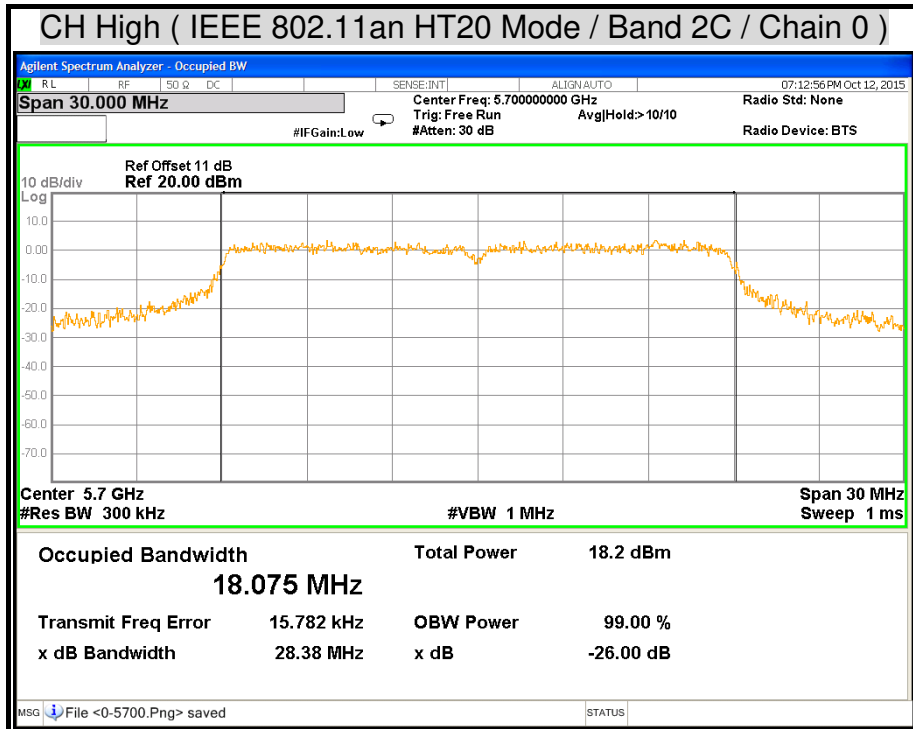


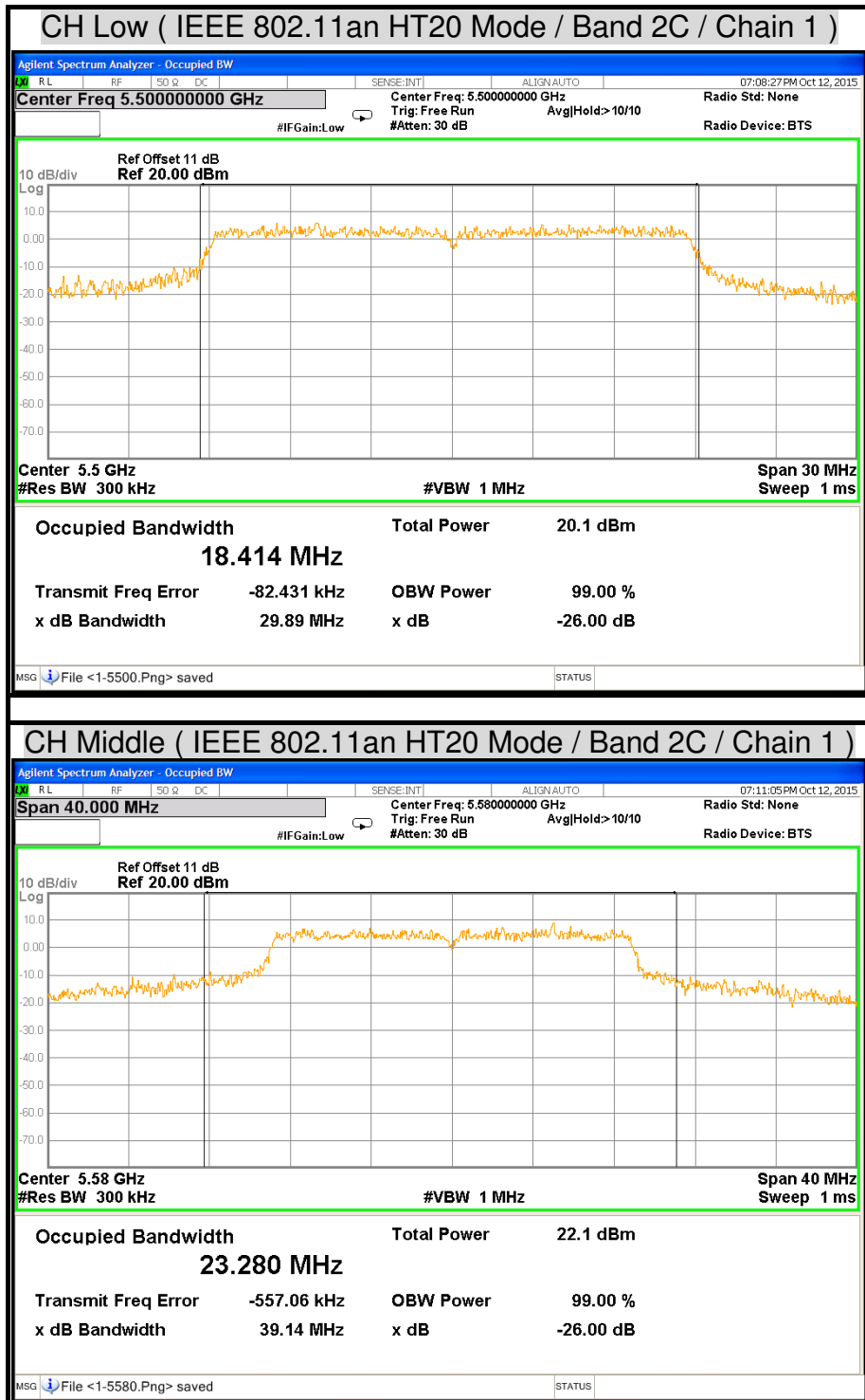


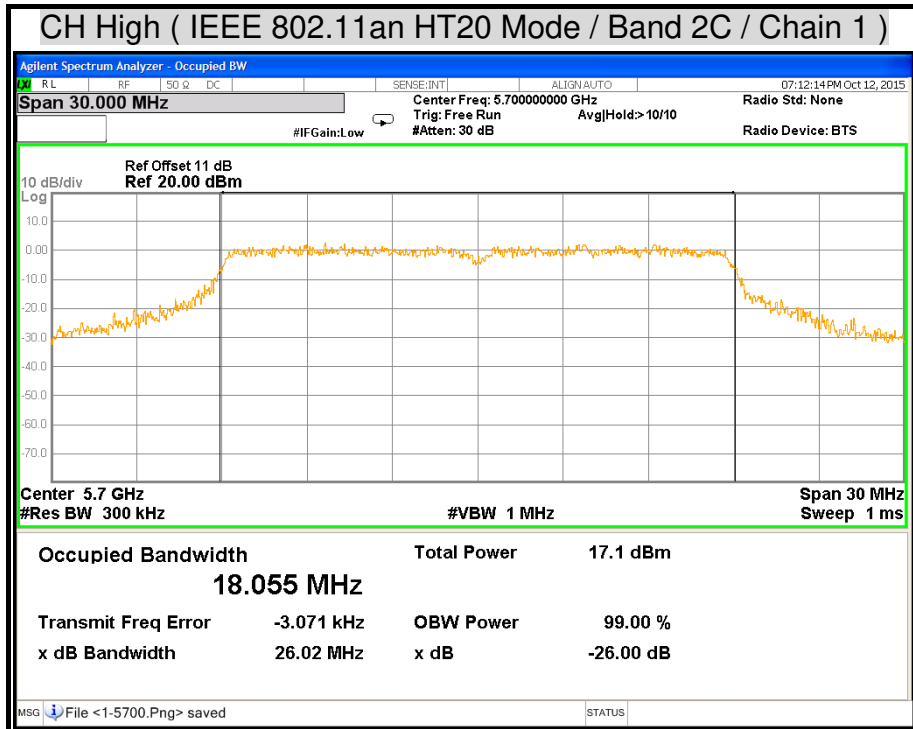




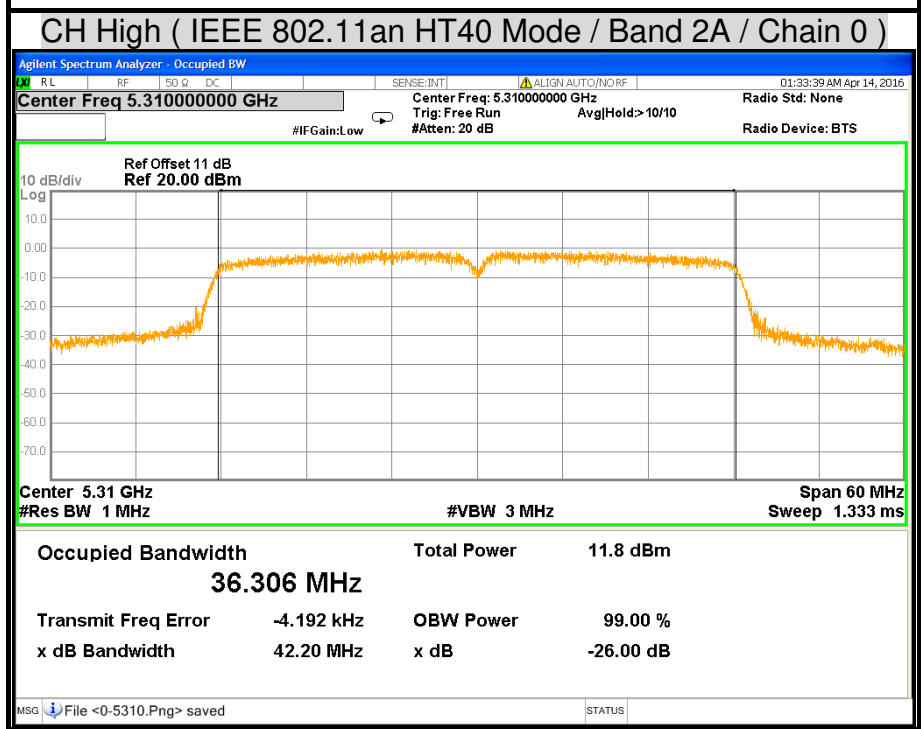
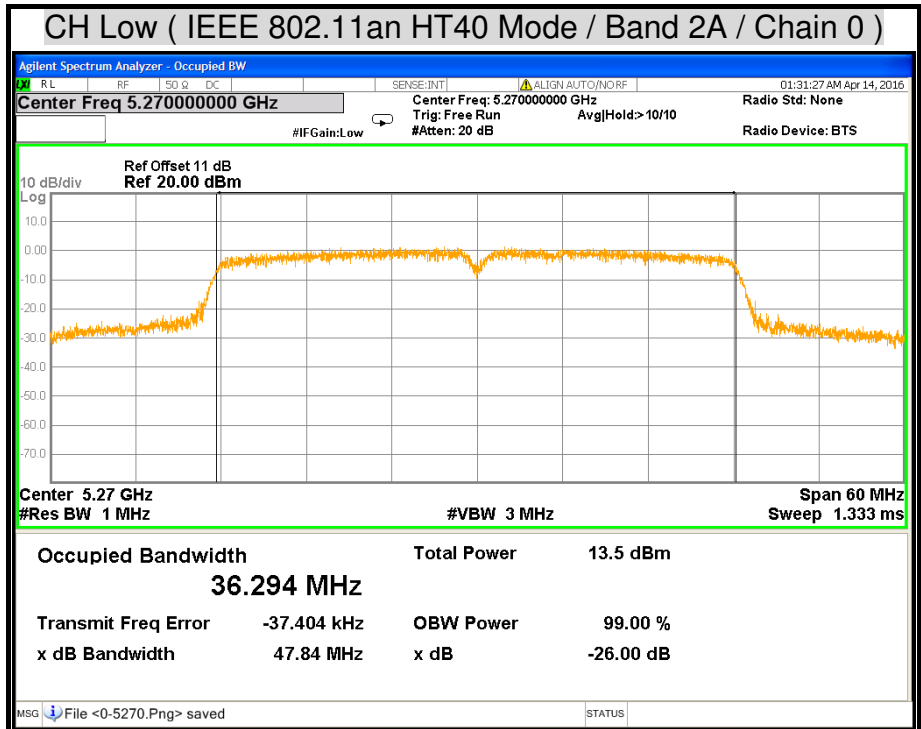


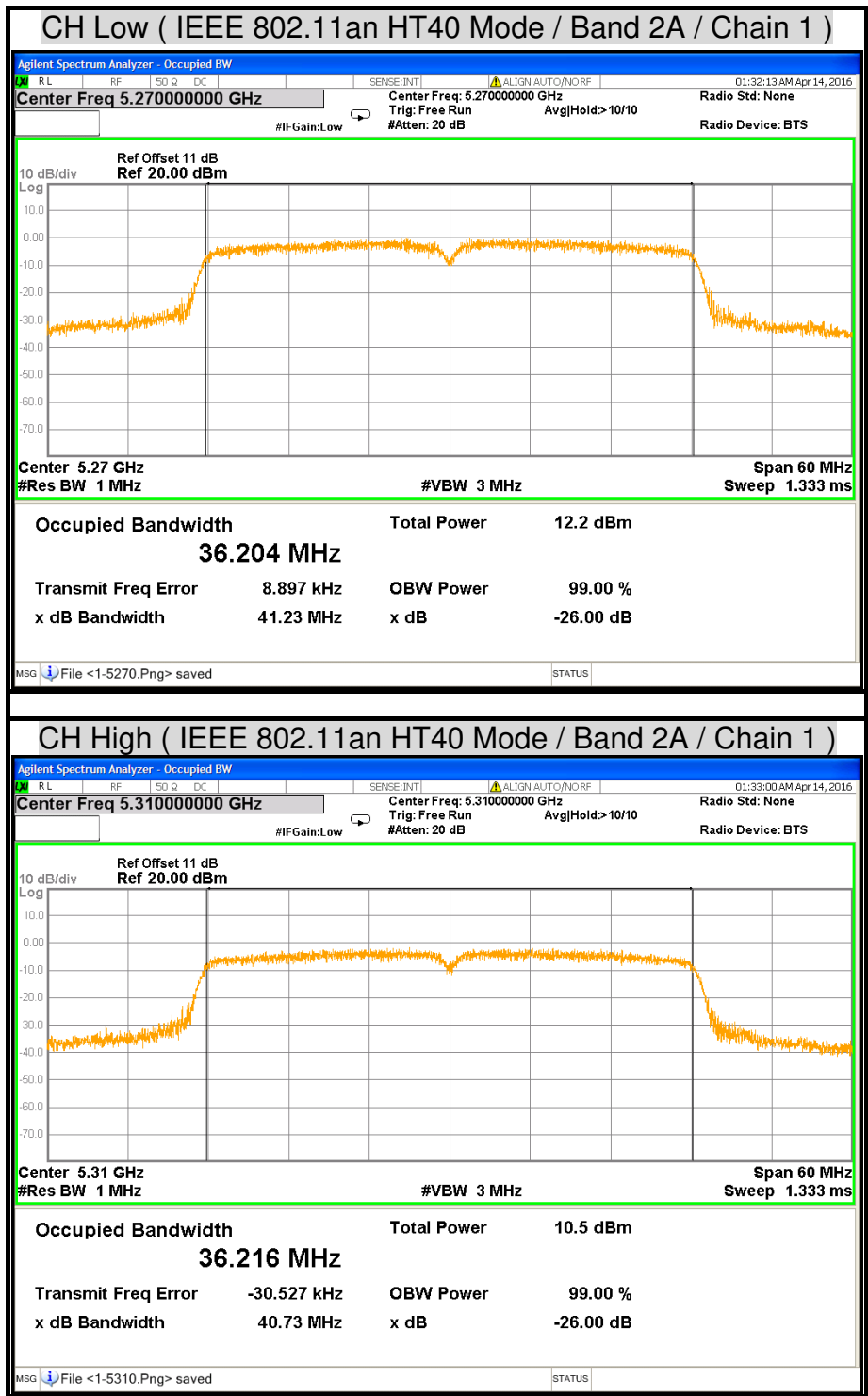


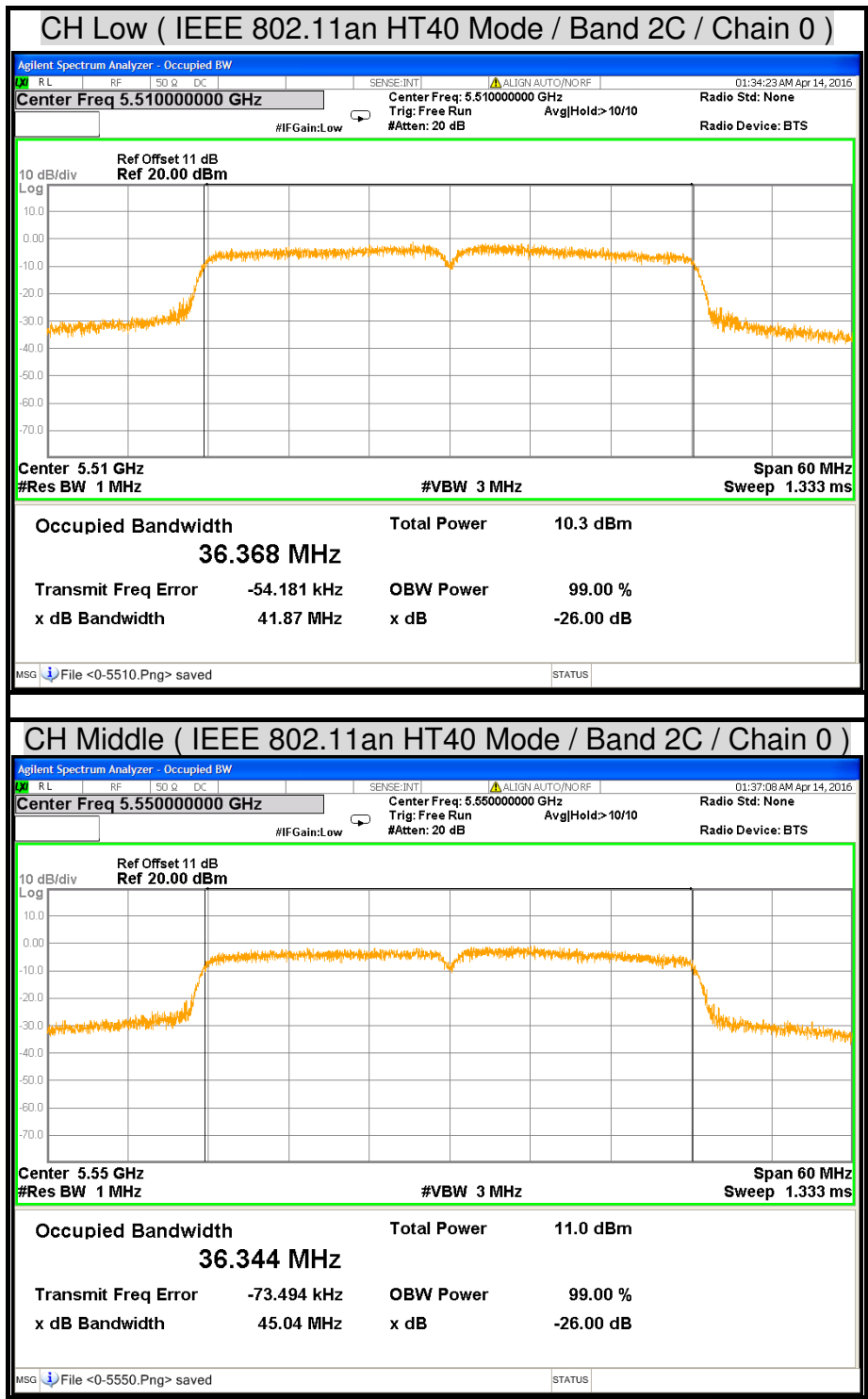


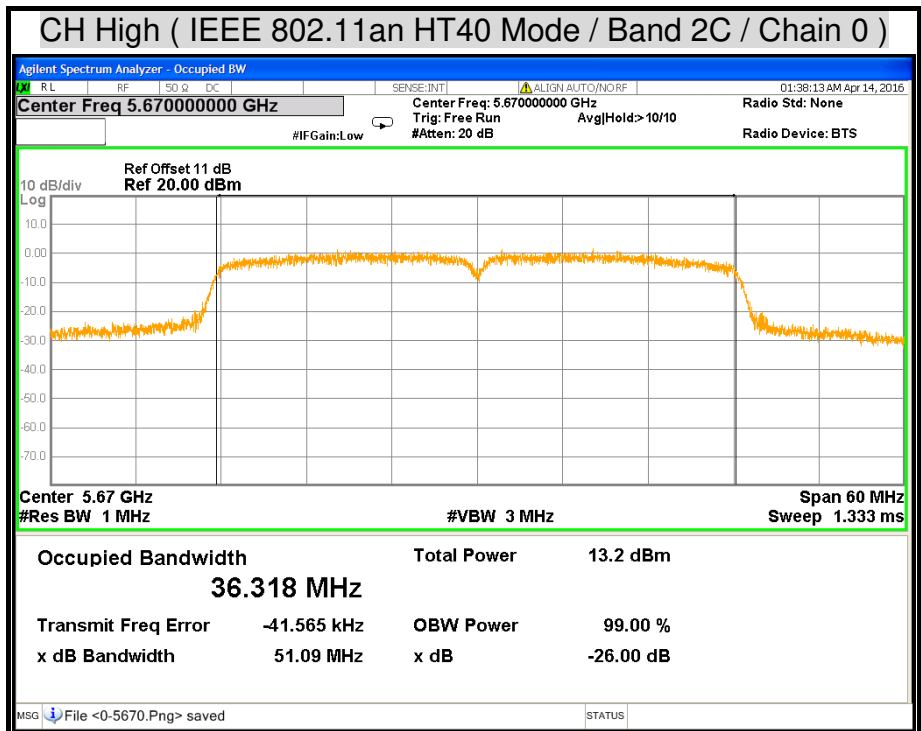


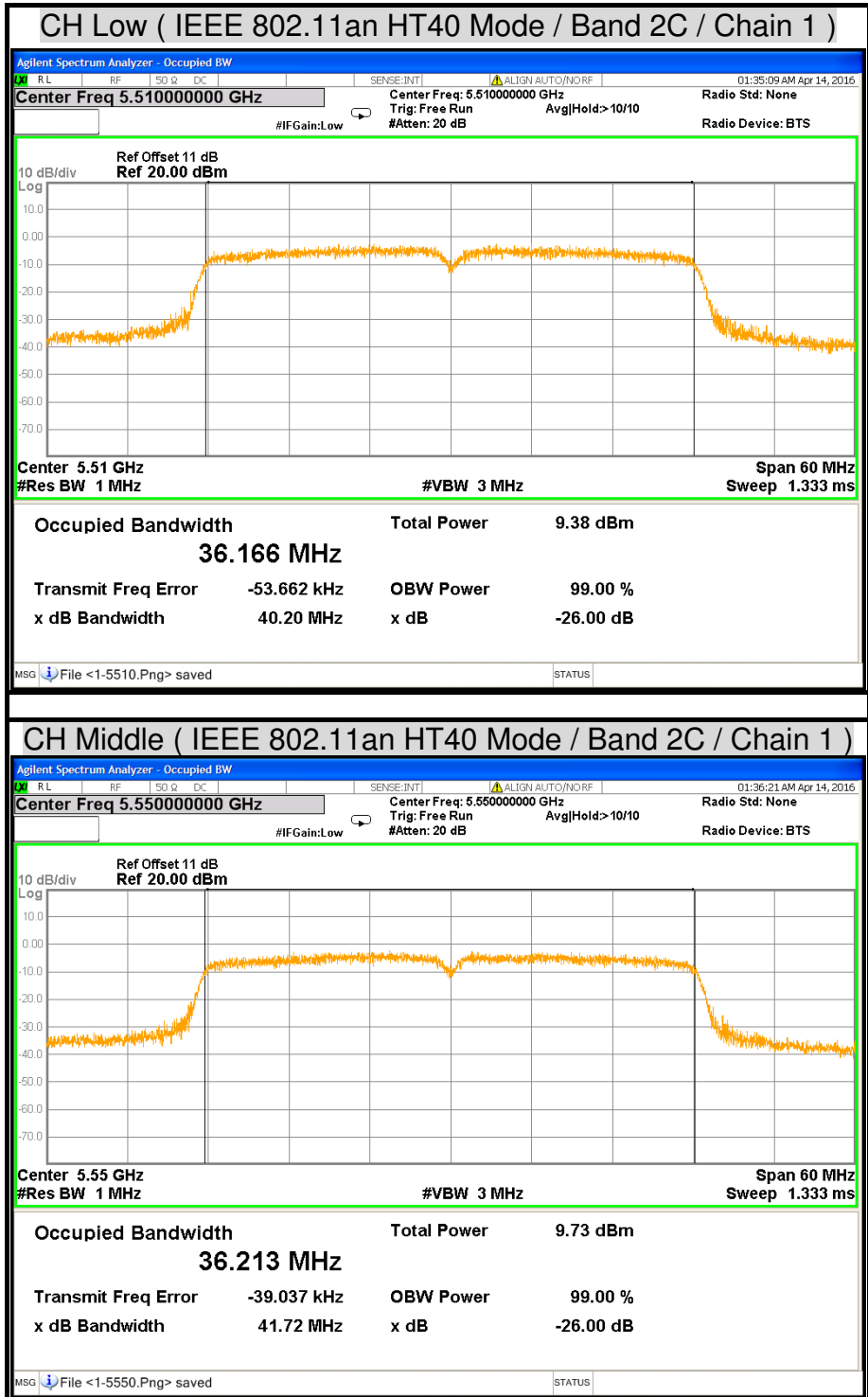


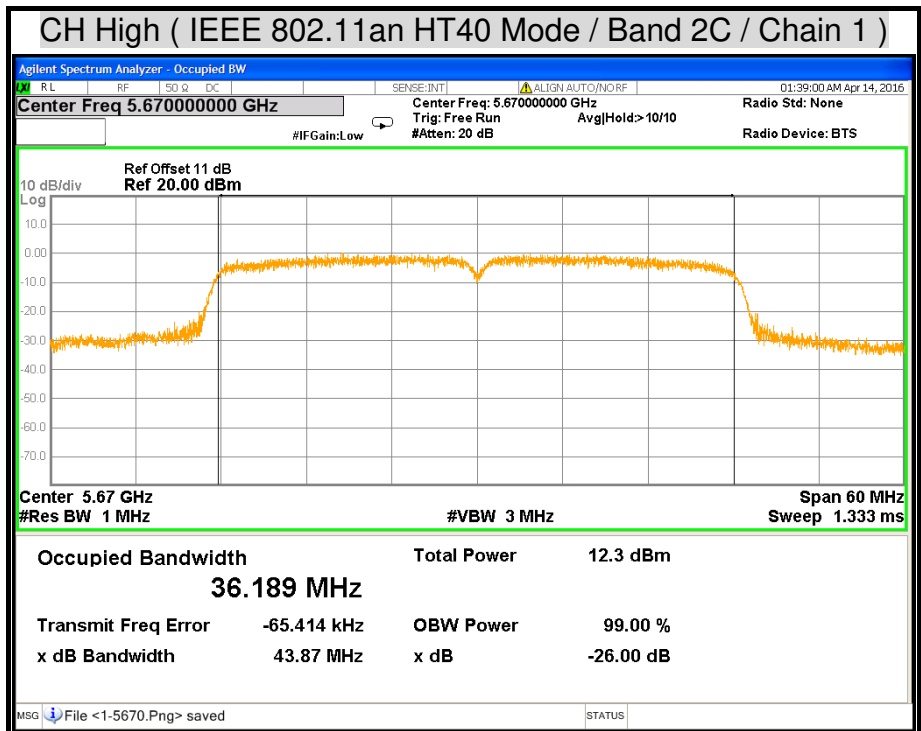












## 7.2 6dB BANDWIDTH

### LIMITS

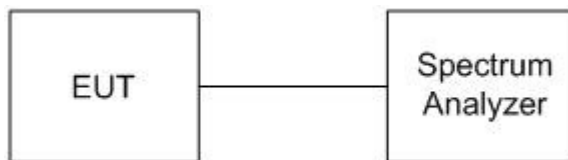
According to § 15.407 (e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 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  $-6$ dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

**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)**

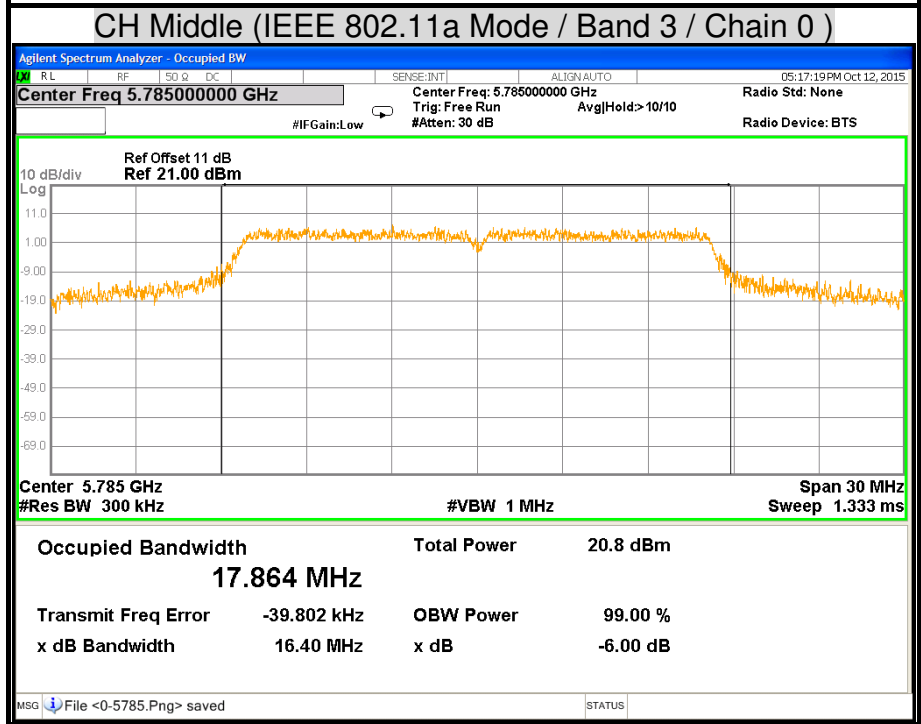
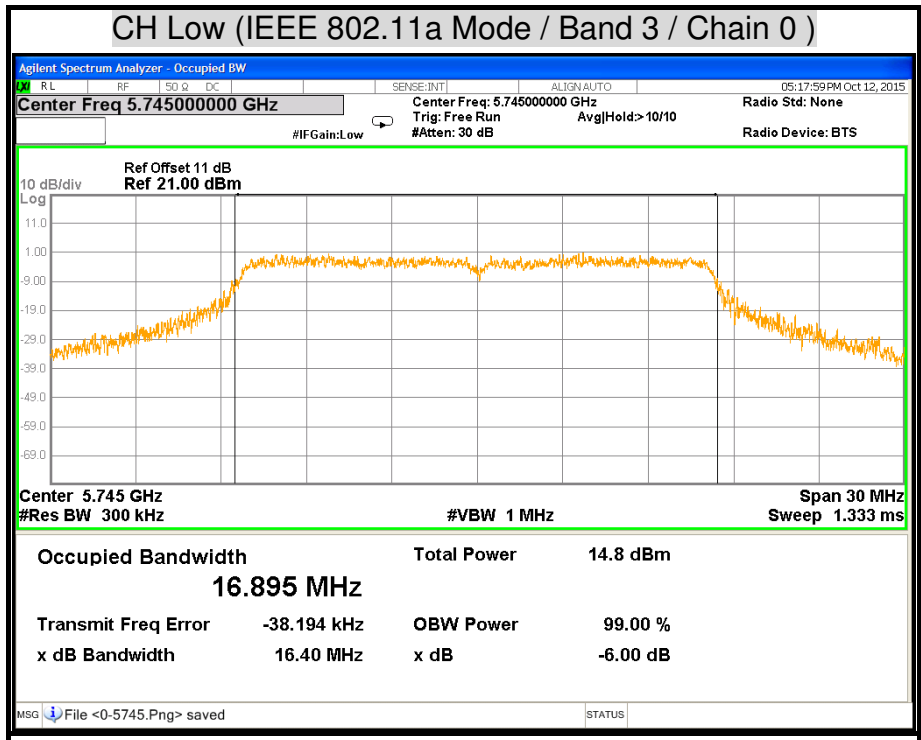
U-NII	Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	
			Chain 0	Chain 1
Band 3	Low	5745	17.7200	17.6900
	Middle	5785	17.6300	17.6800
	High	5825	17.5900	17.6100

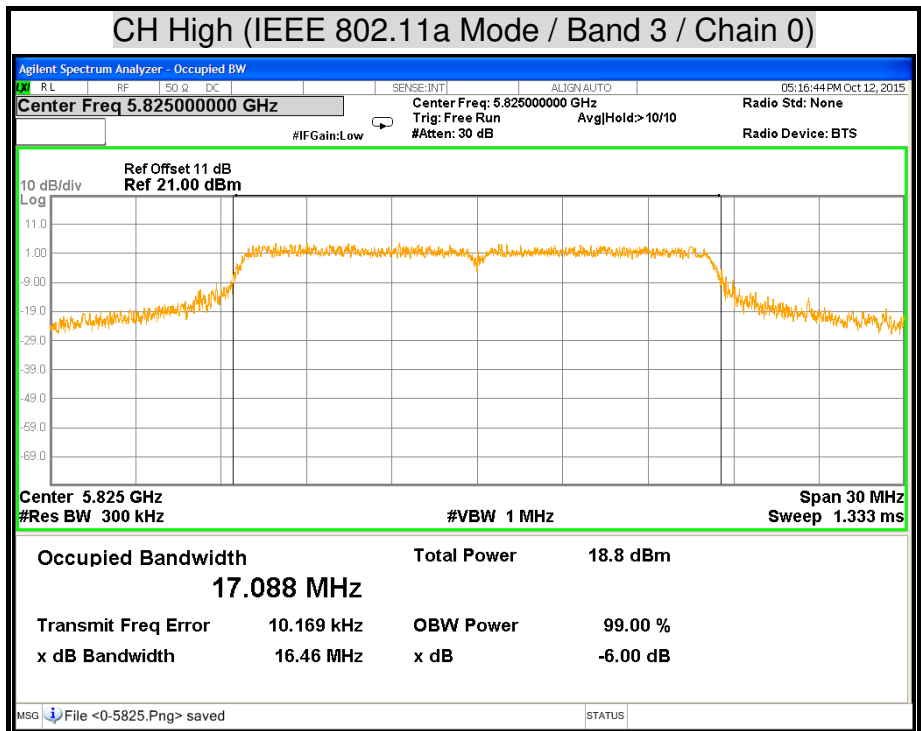
**IEEE 802.11an HT40 Mode (Two TX)**

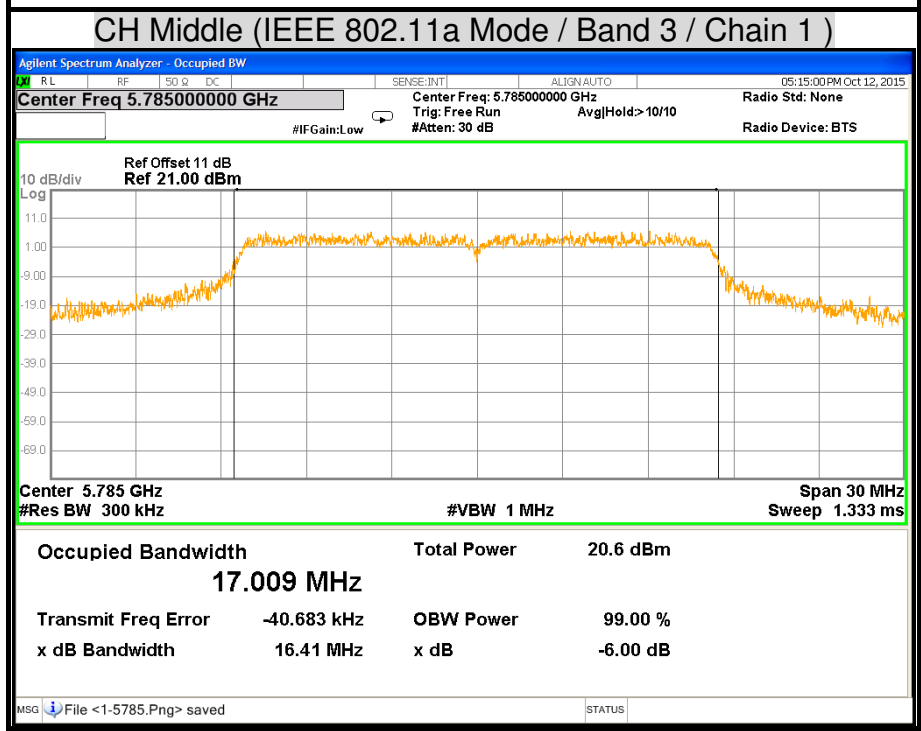
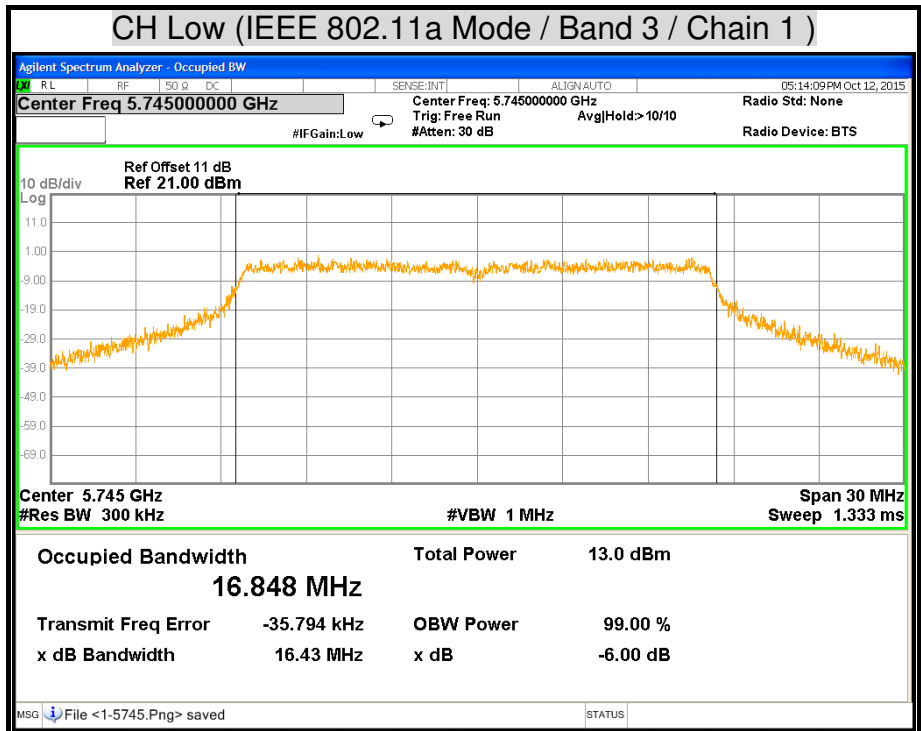
U-NII	Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	
			Chain 0	Chain 1
Band 3	Low	5755	35.8900	36.0900
	High	5795	35.9500	36.0100

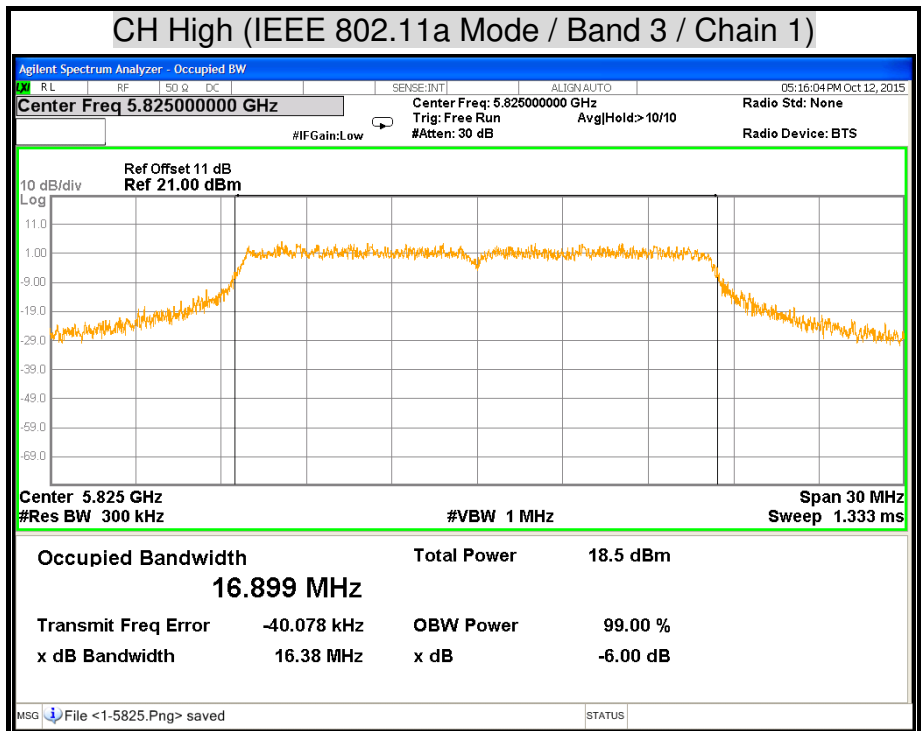


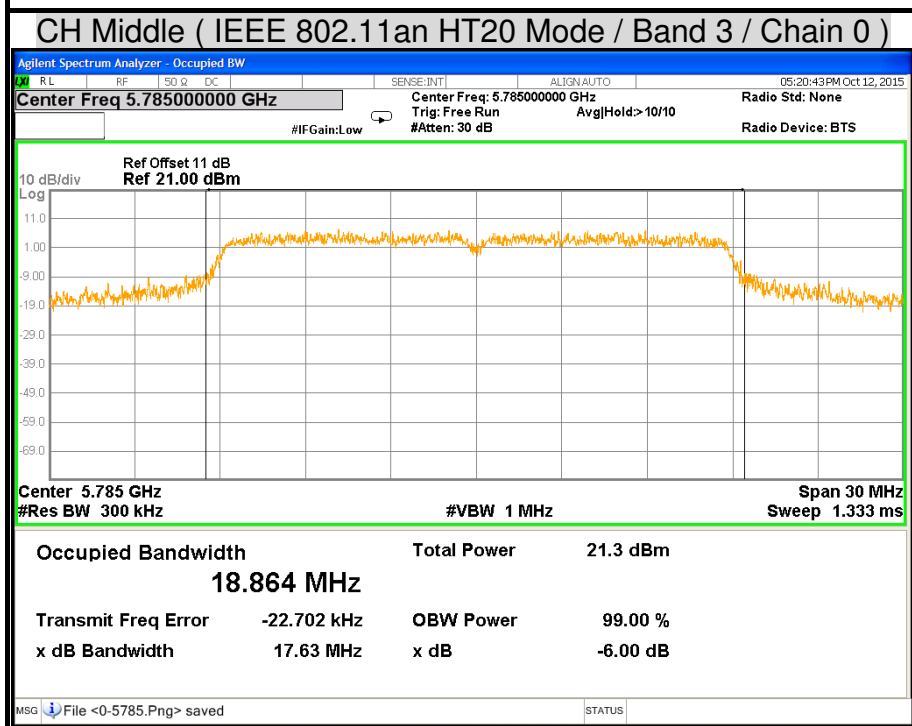
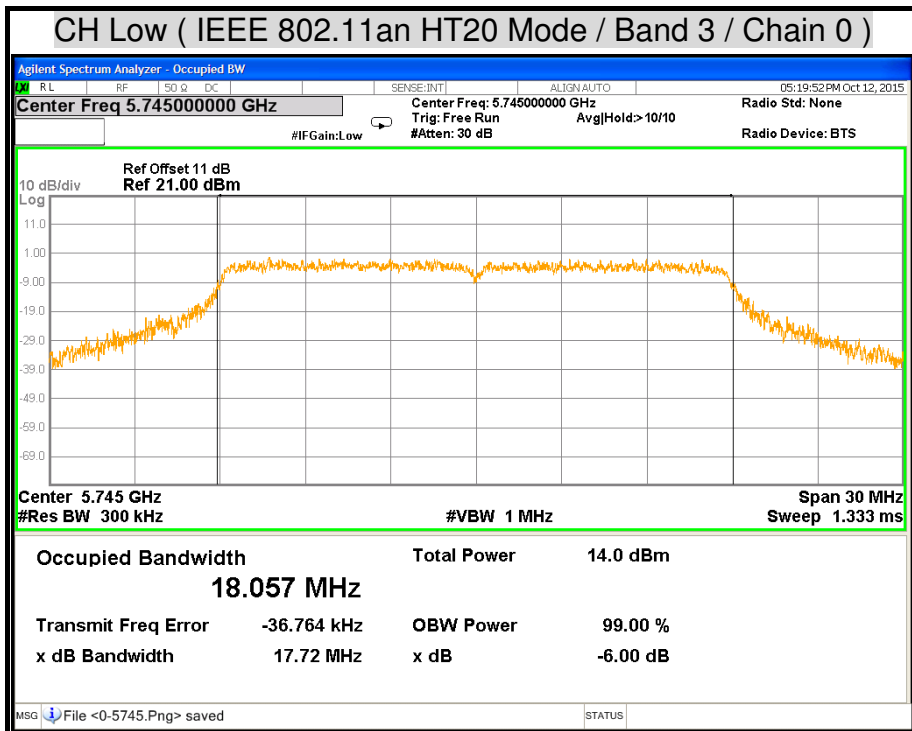
**6dB BANDWIDTH**

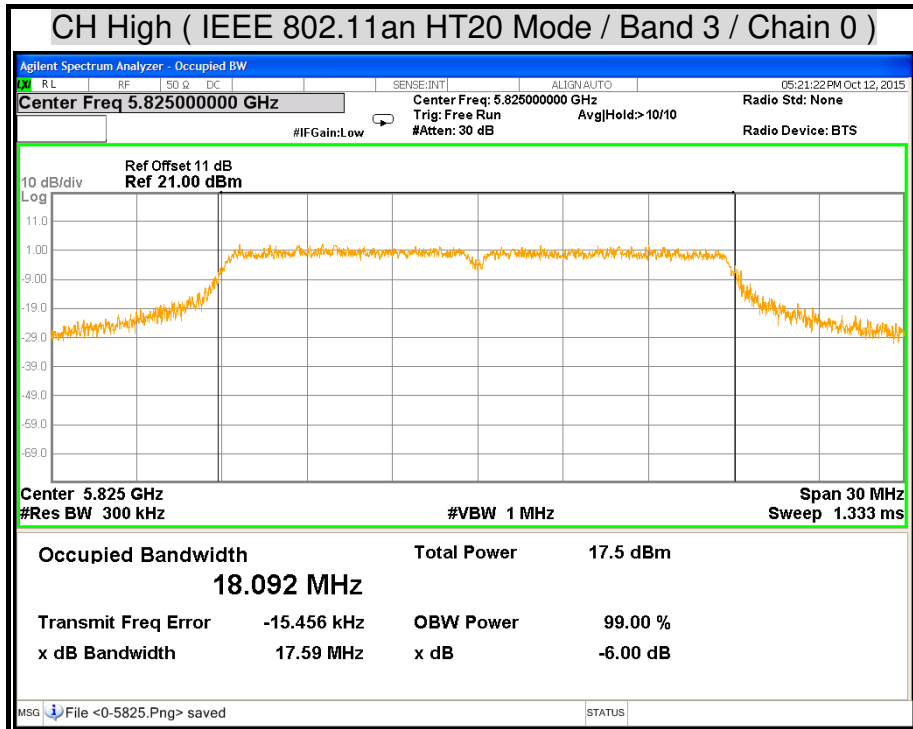


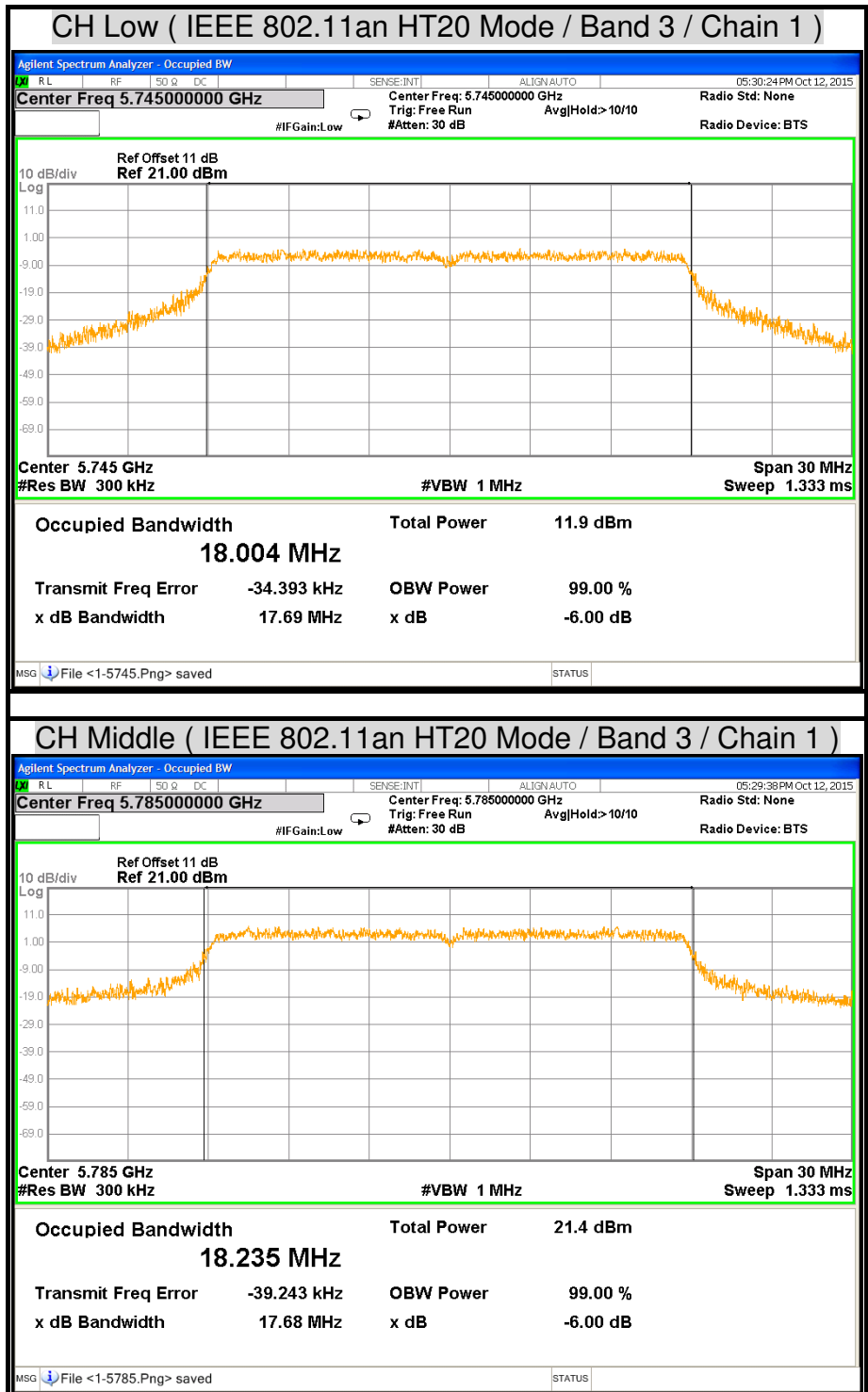


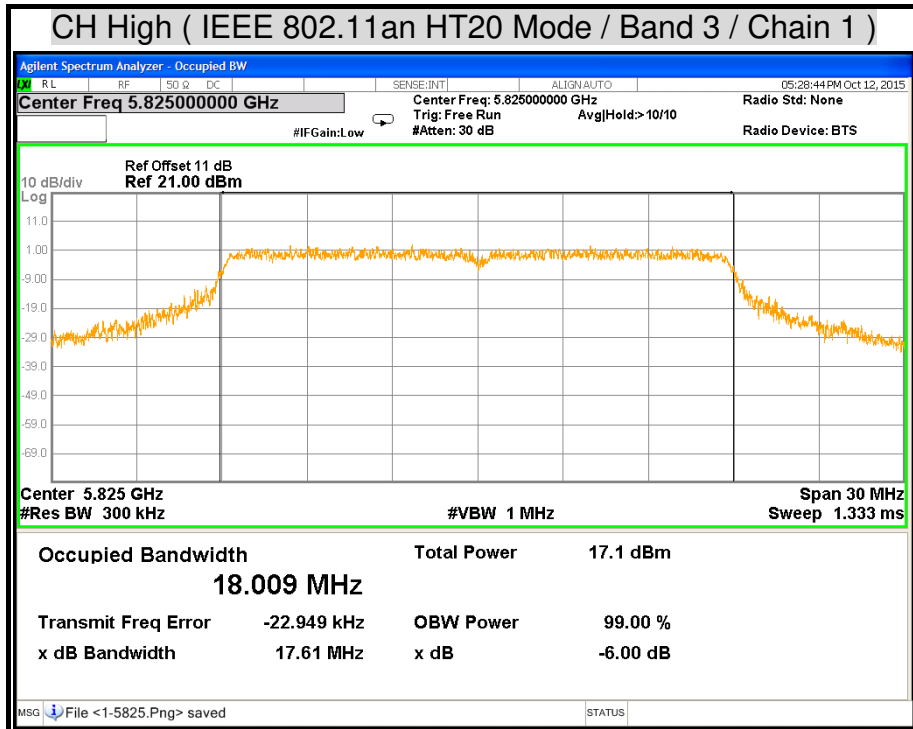




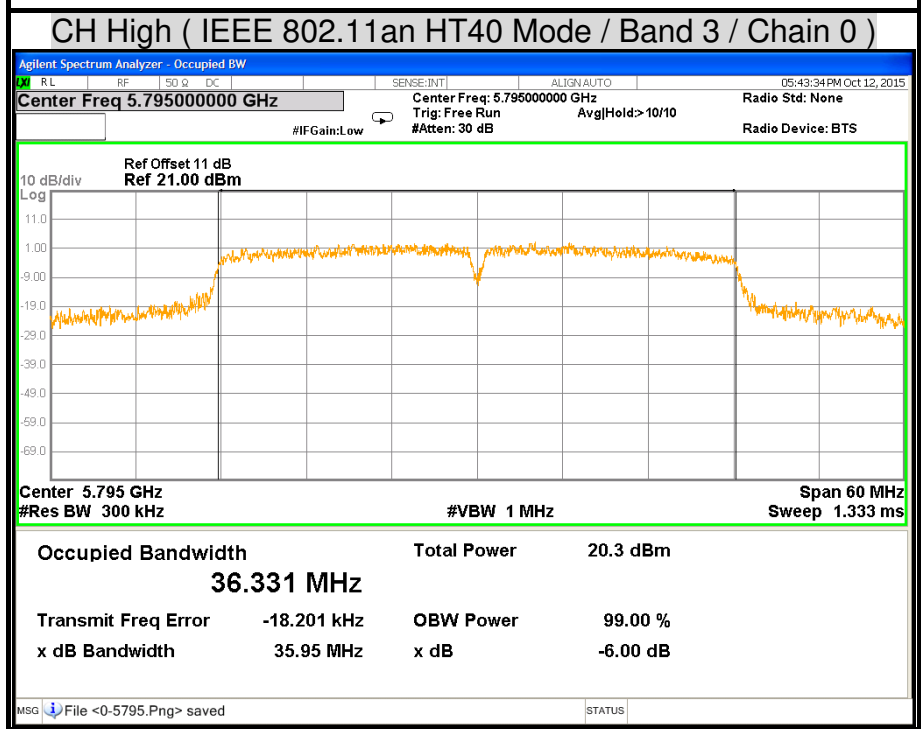
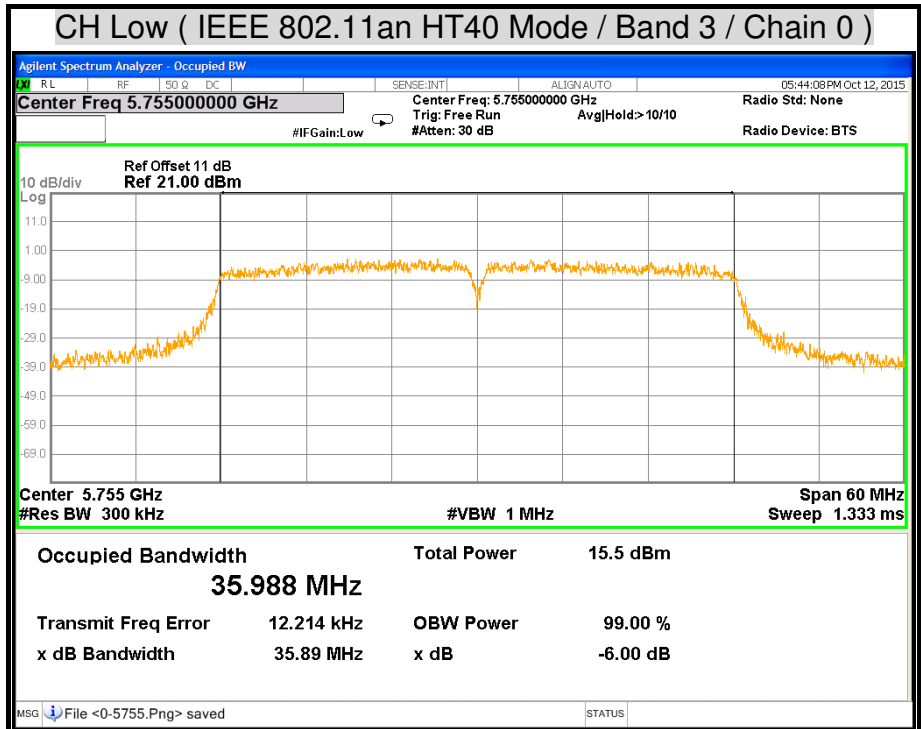


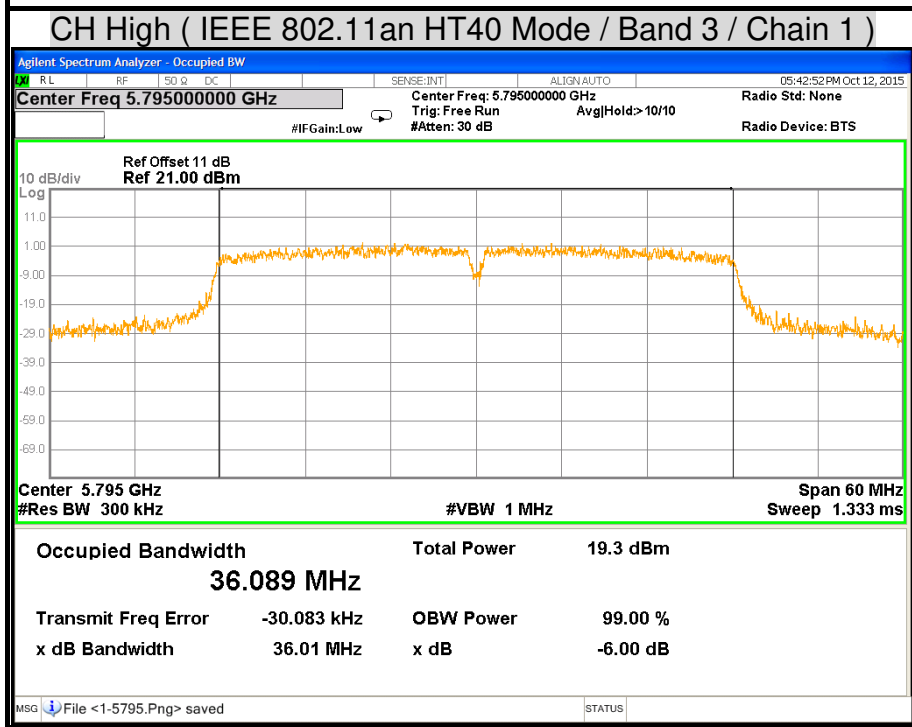
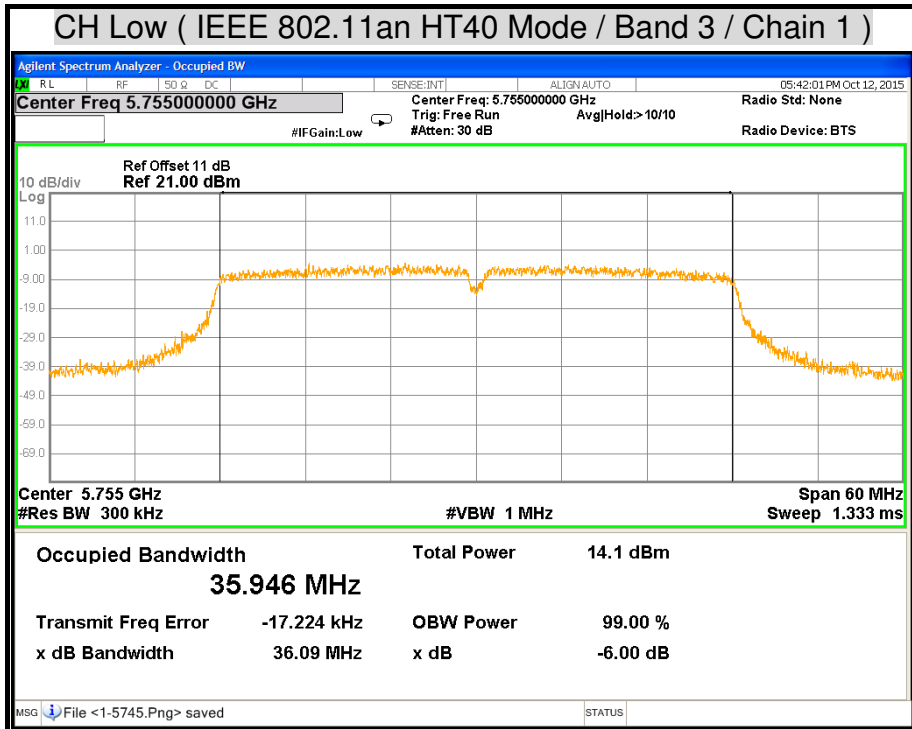












## 7.2 MAXIMUM CONDUCTED OUTPUT POWER

### 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.

- (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  $11 \text{ dBm} + 10 \log B$ , 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  $N_{\text{ANT}} \leq 4$  ;

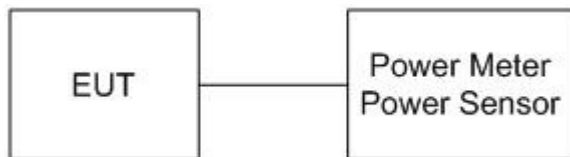
Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{\text{ANT}}$  ;

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

**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.

**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

**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

**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 final 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.



**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 final 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.

**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 final 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.

## 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.

- (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**



**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.

**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 final 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.

**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 final 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.

**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 final 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.



**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 final 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 final 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.

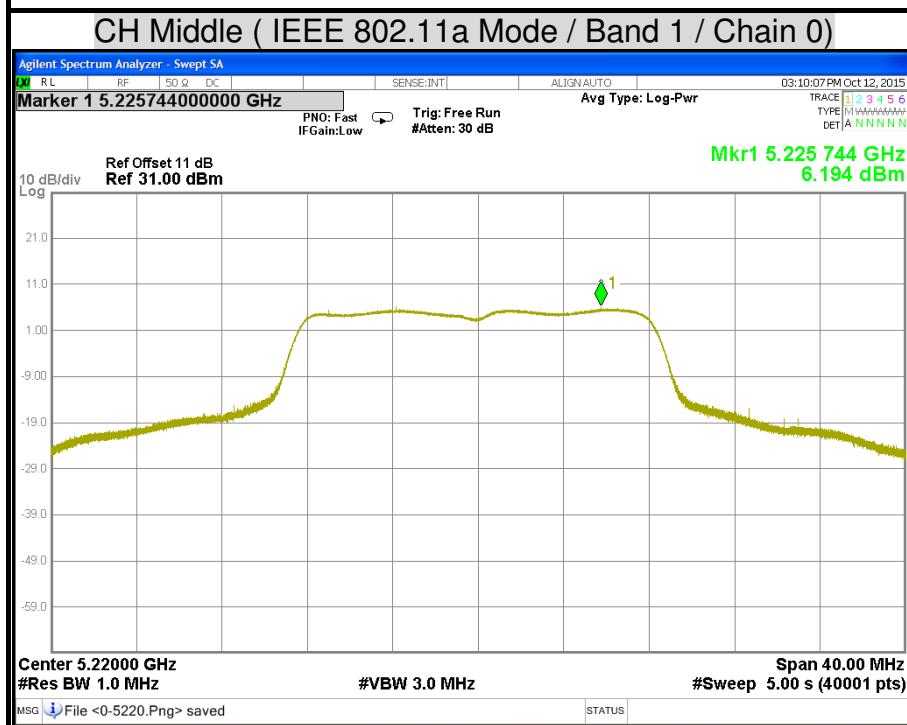
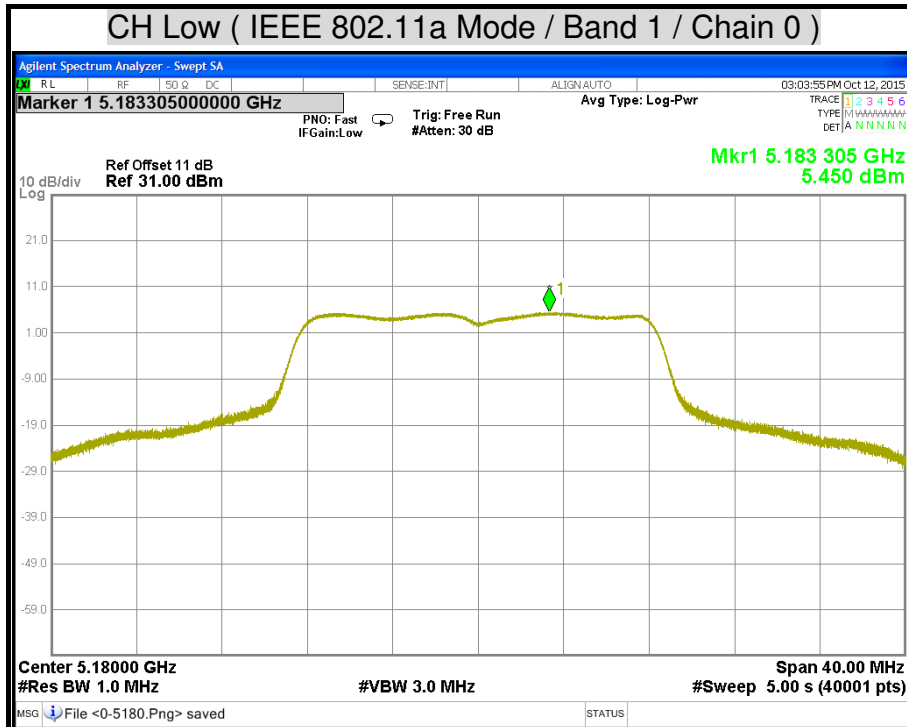
**IEEE 802.11an HT40 Mode (Two TX)**

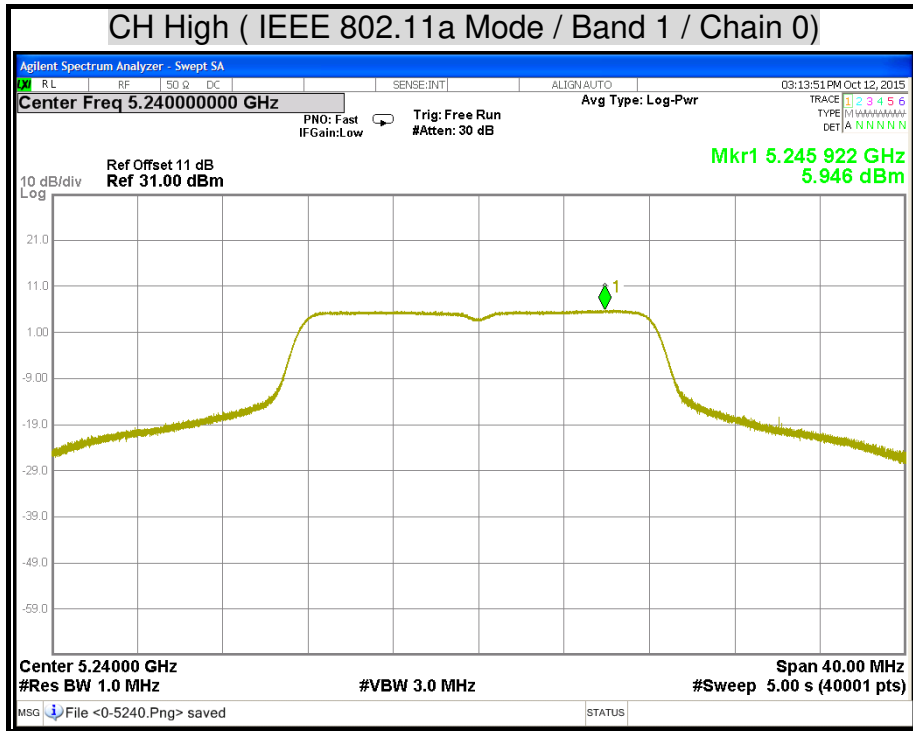
U-NII	Channel	Channel Frequency (MHz)	PPSD (dBm)		PSD Total (dBm)	Minimum Limit (dBm/500kHz)	Pass / Fail
			Chain 0	Chain 1			
Band 3	Low	5755	-6.72	-8.52	-4.52	28.23	PASS
	High	5795	-1.39	-1.37	1.63	28.23	PASS

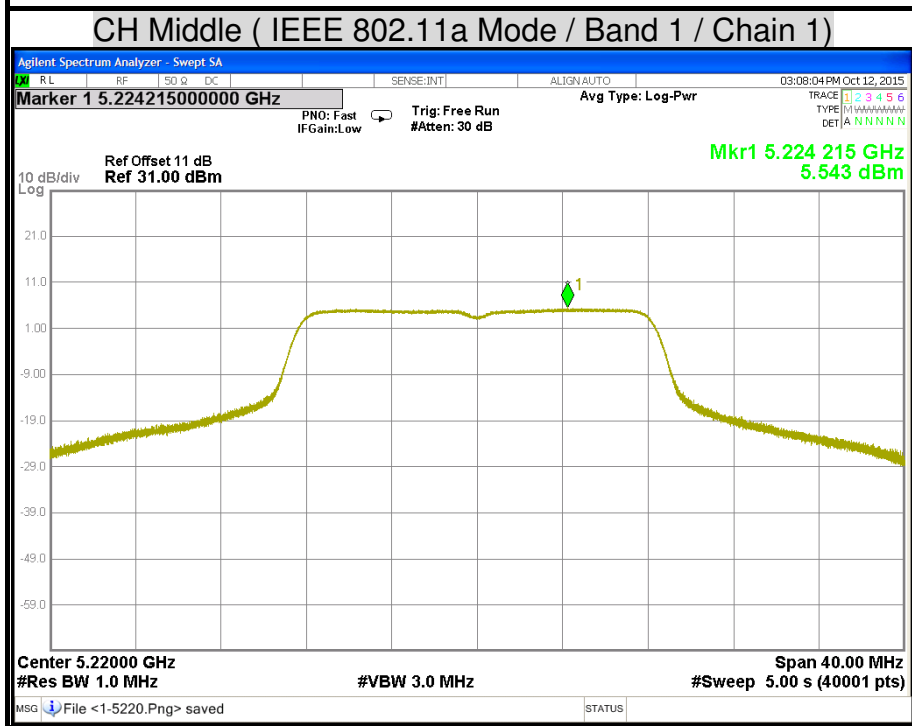
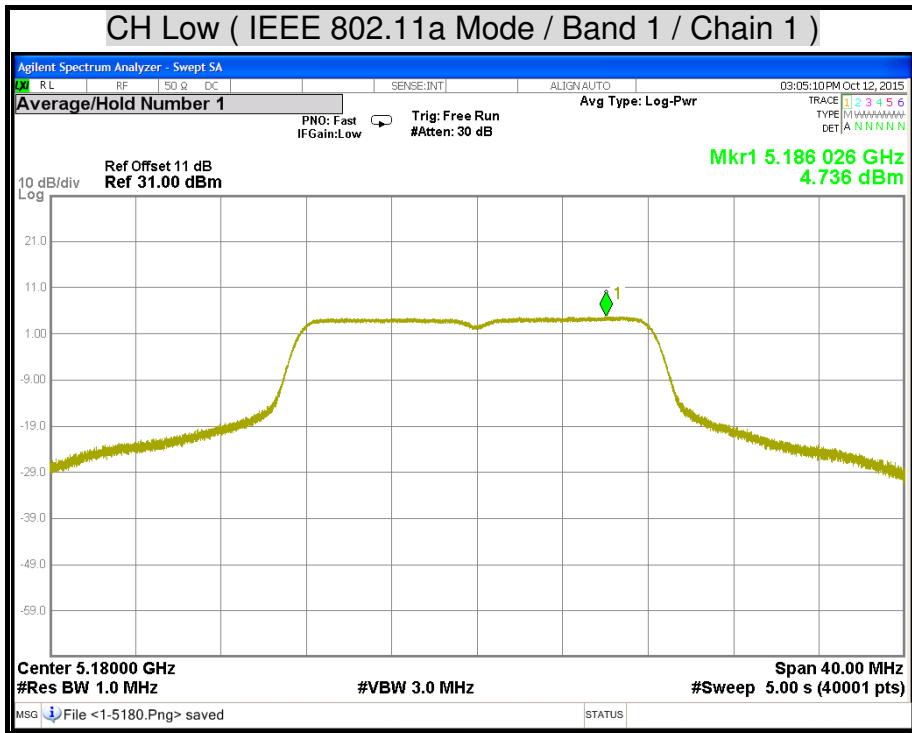
**Remark:**

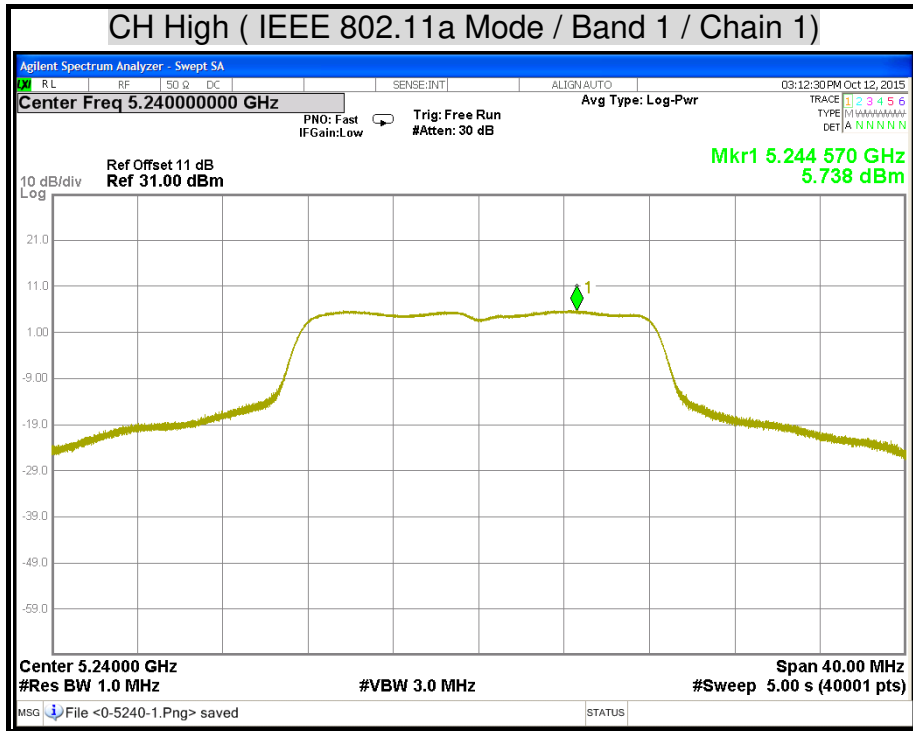
1. At final test to get the worst-case emission at 13.5Mbps.
2. The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.
3. The directional gain is 7.77 dBi which is more than 6dBi, the limit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

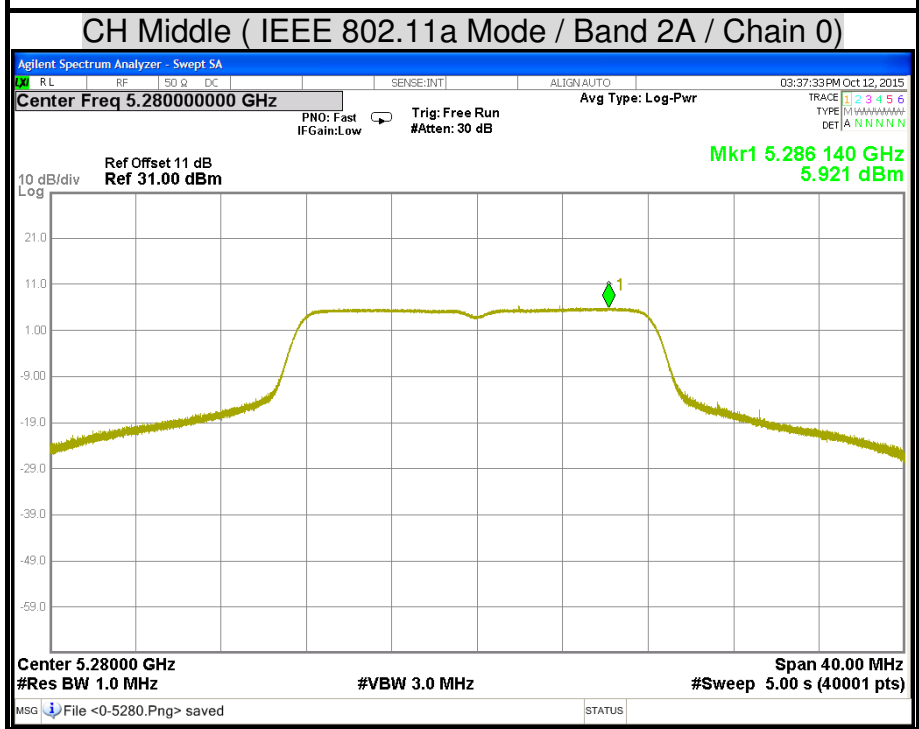
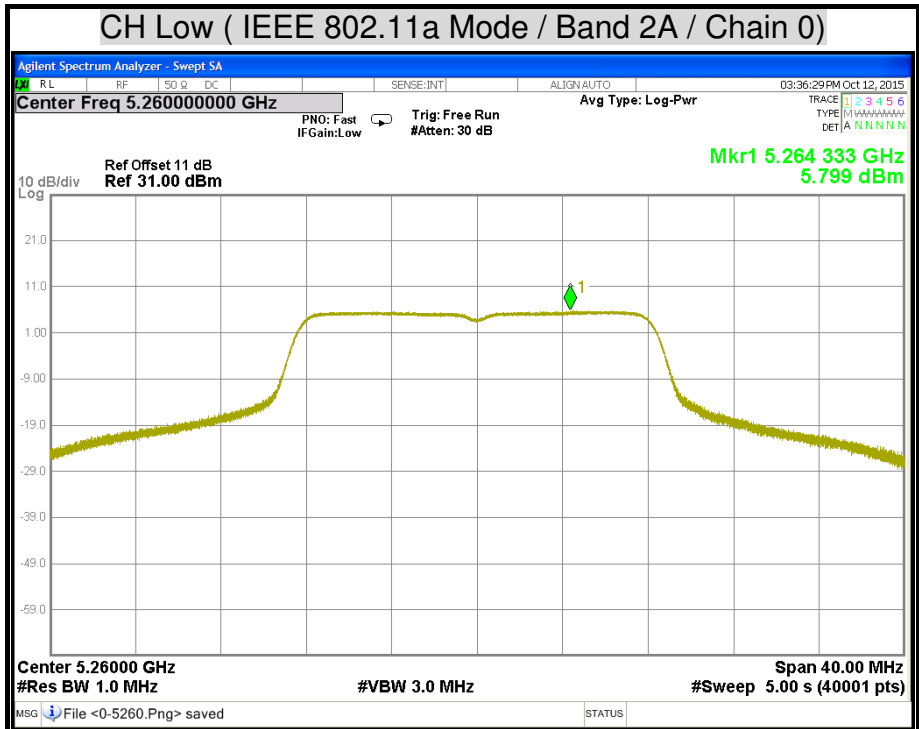
**POWER SPECTRAL DENSITY**

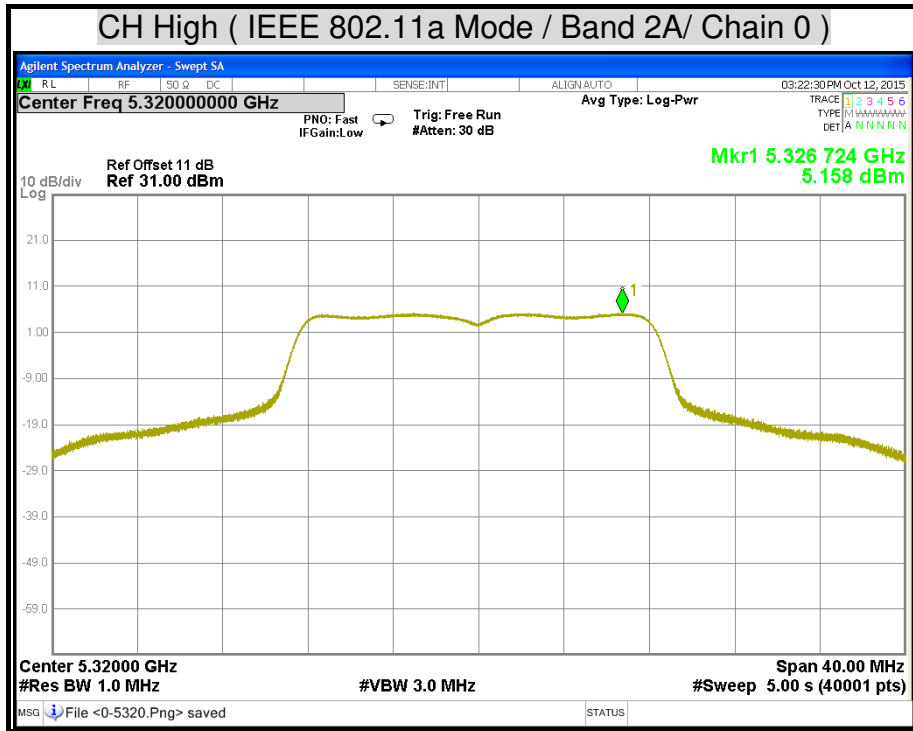




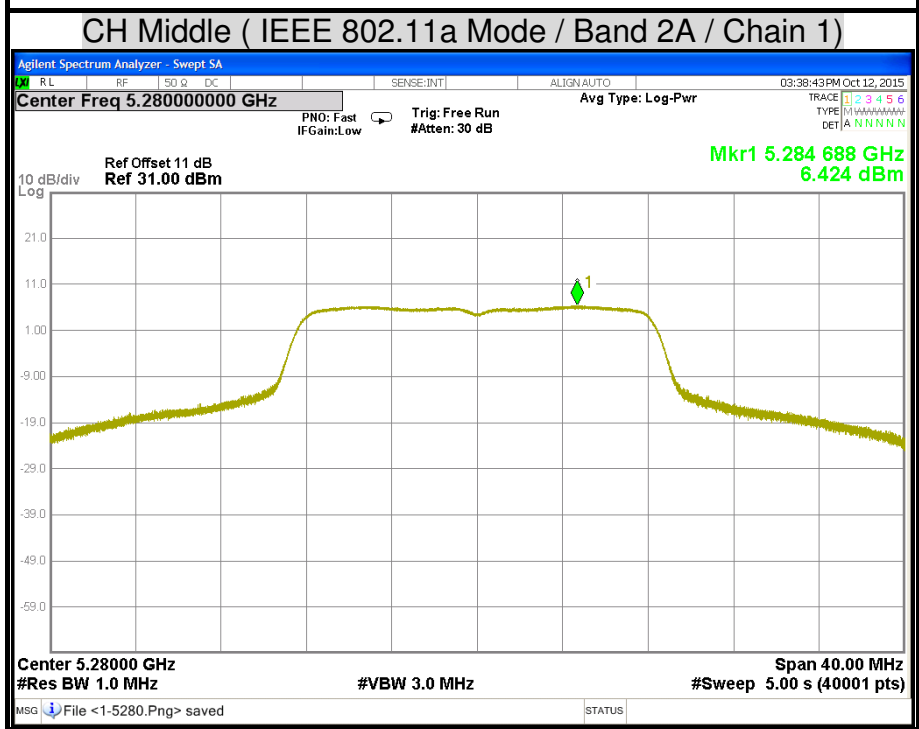
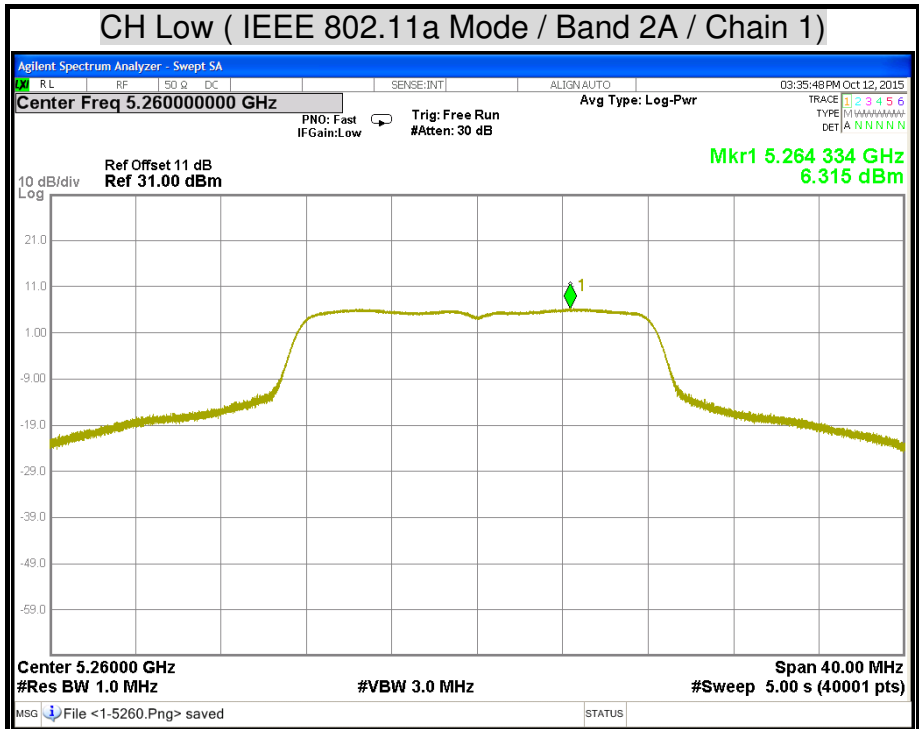


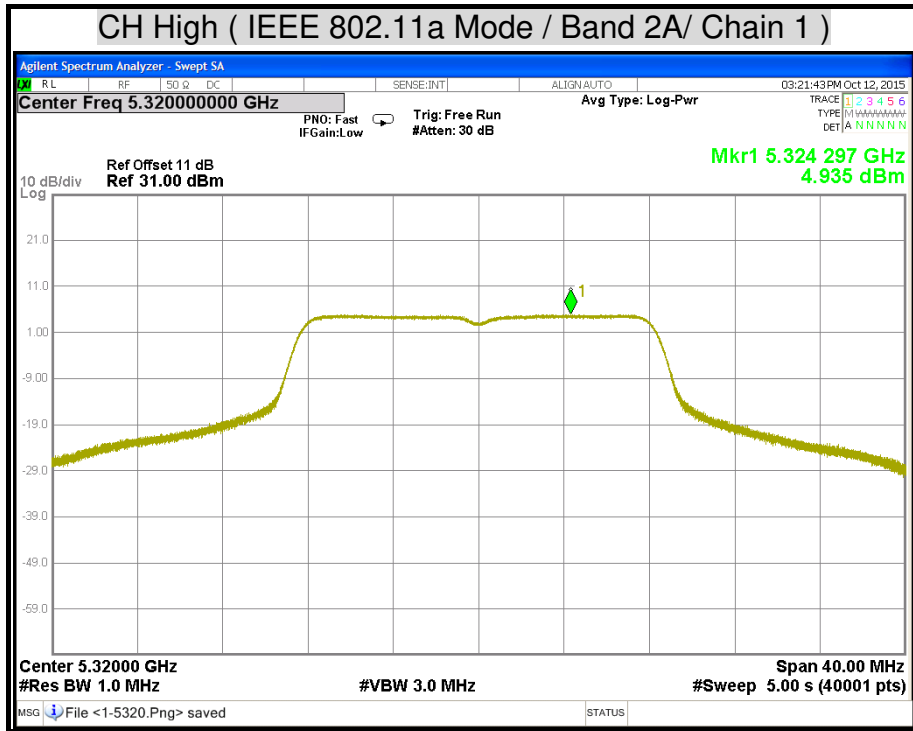


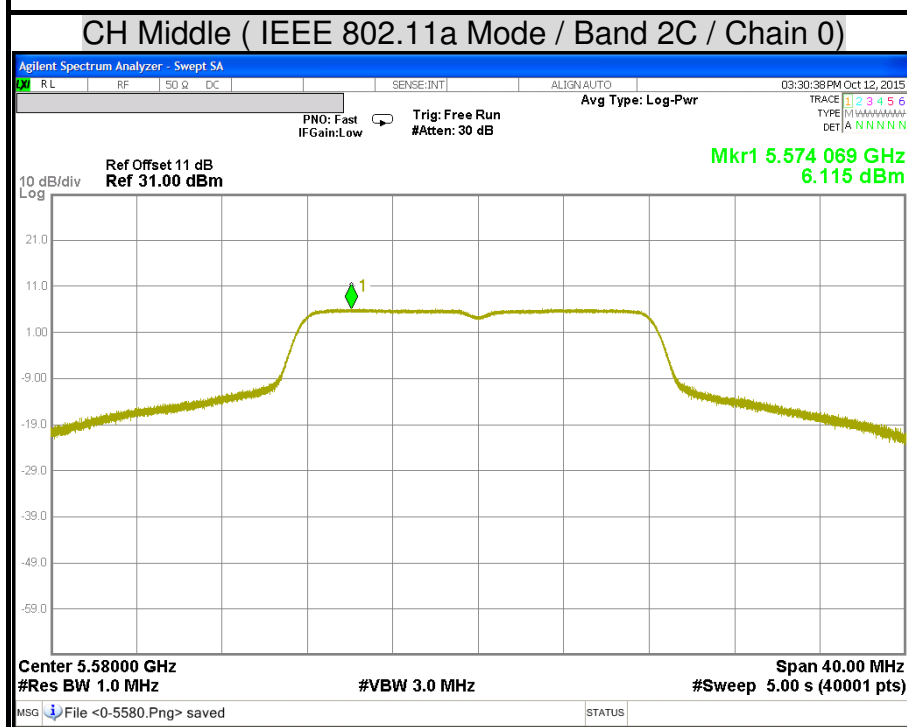
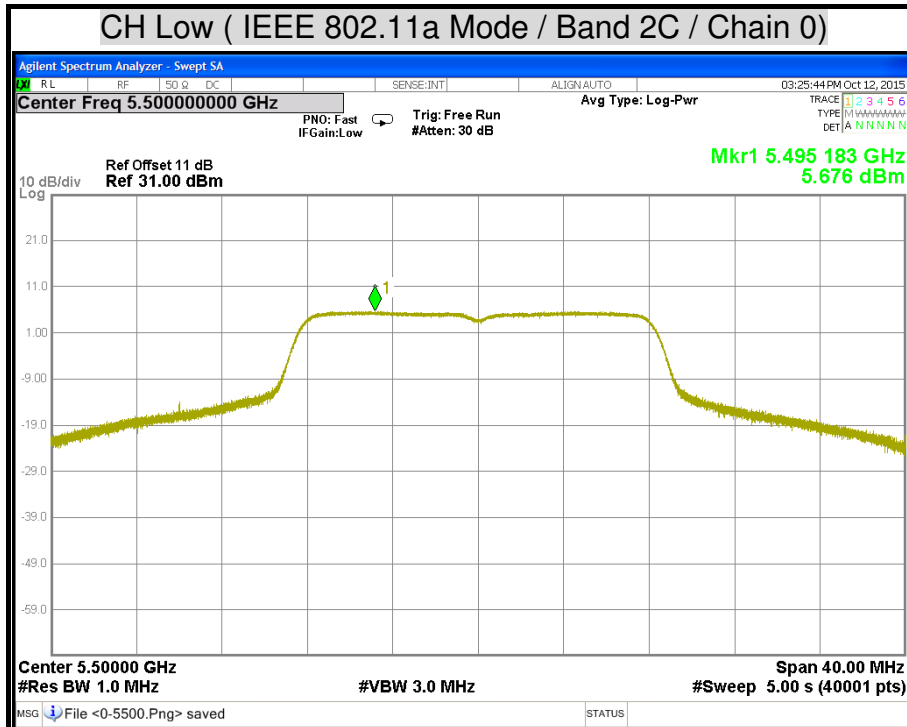


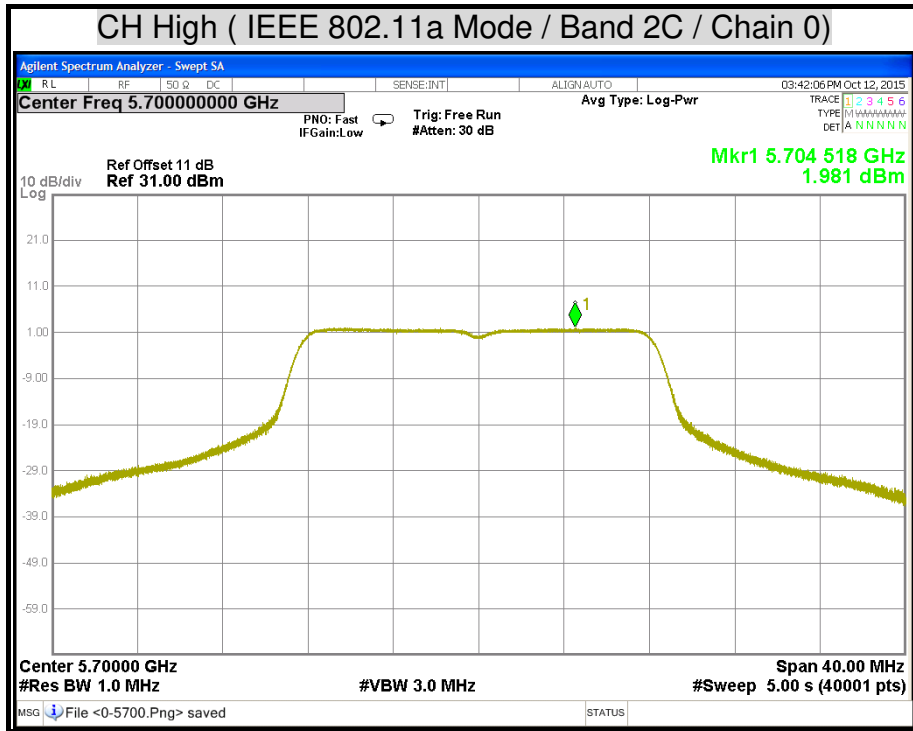


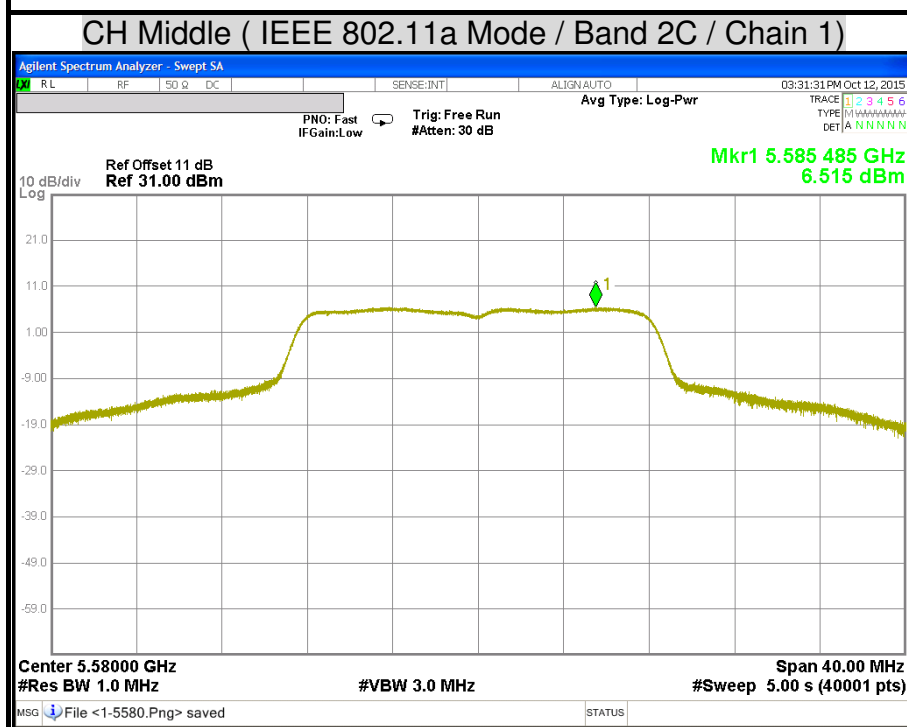
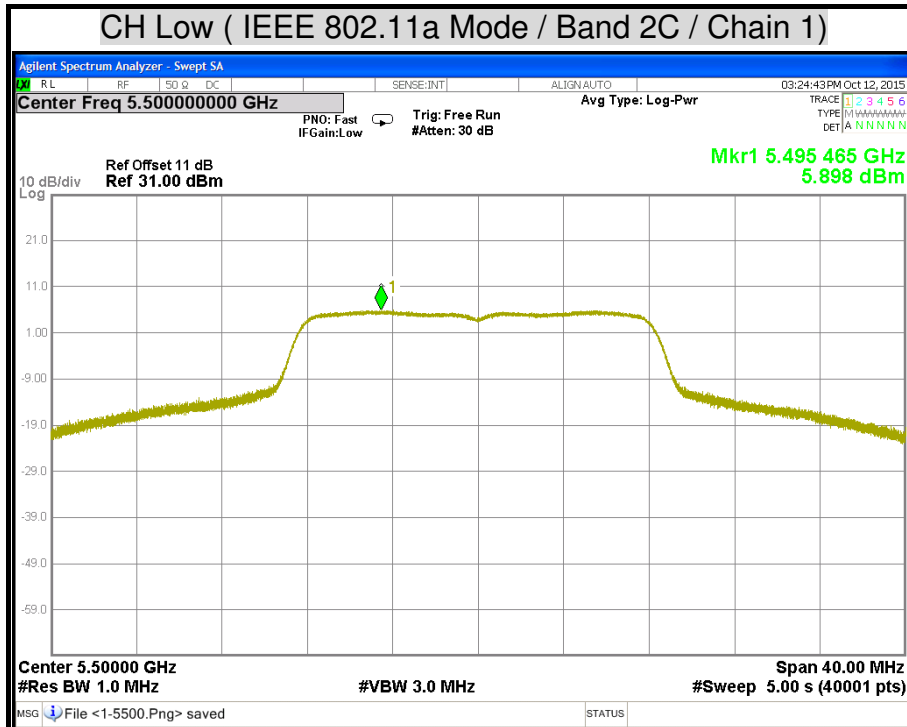


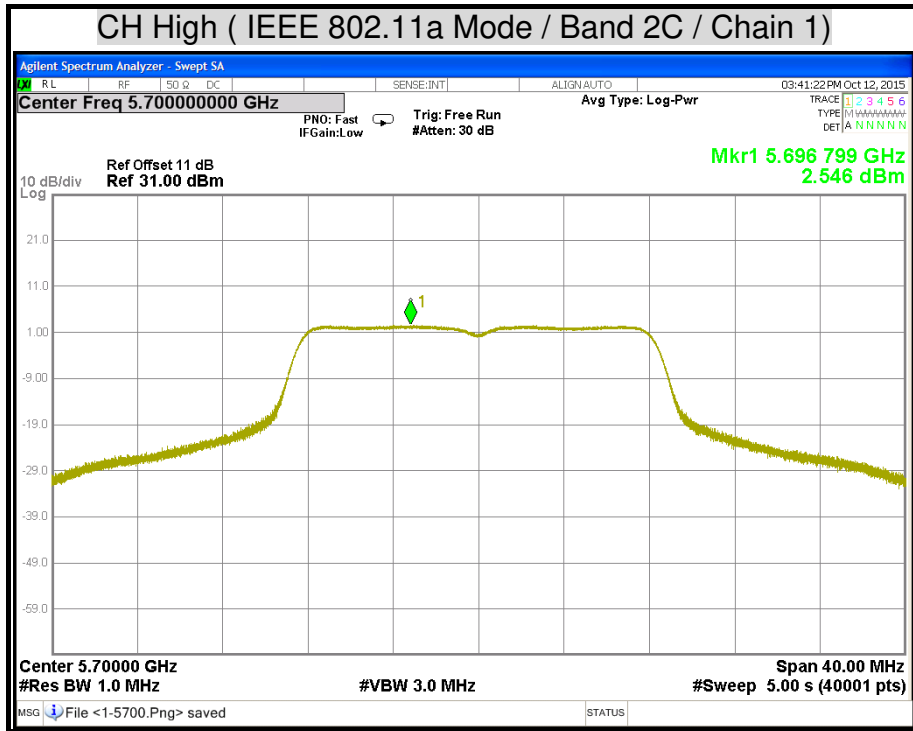


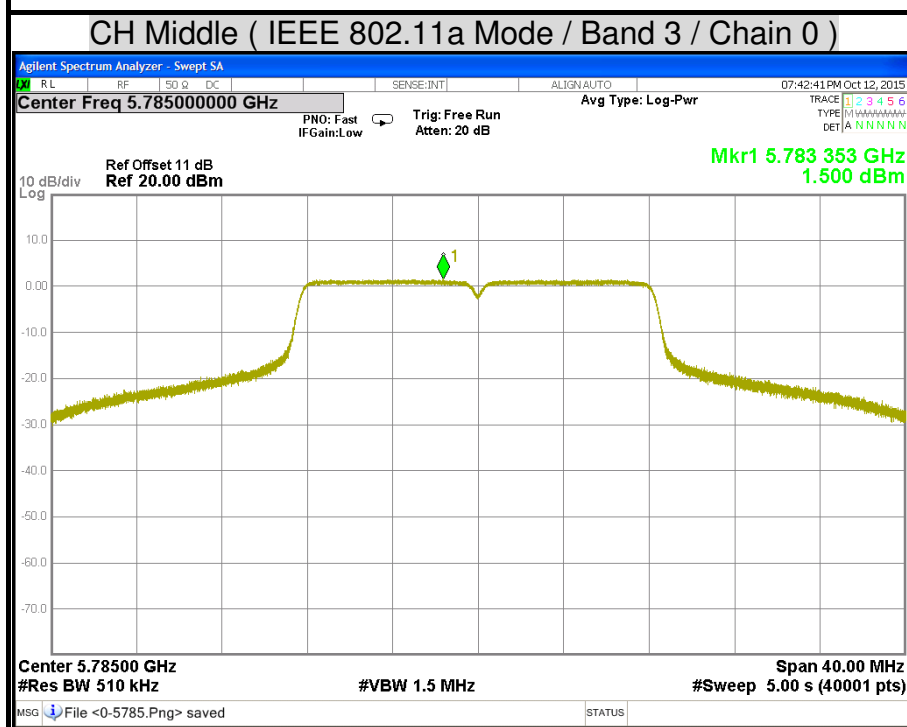
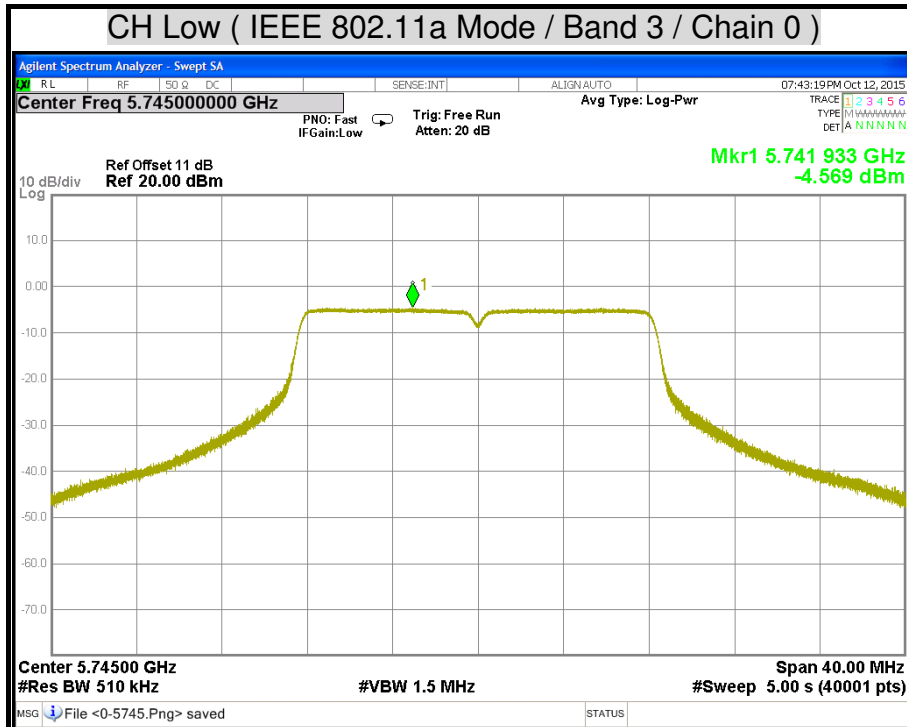


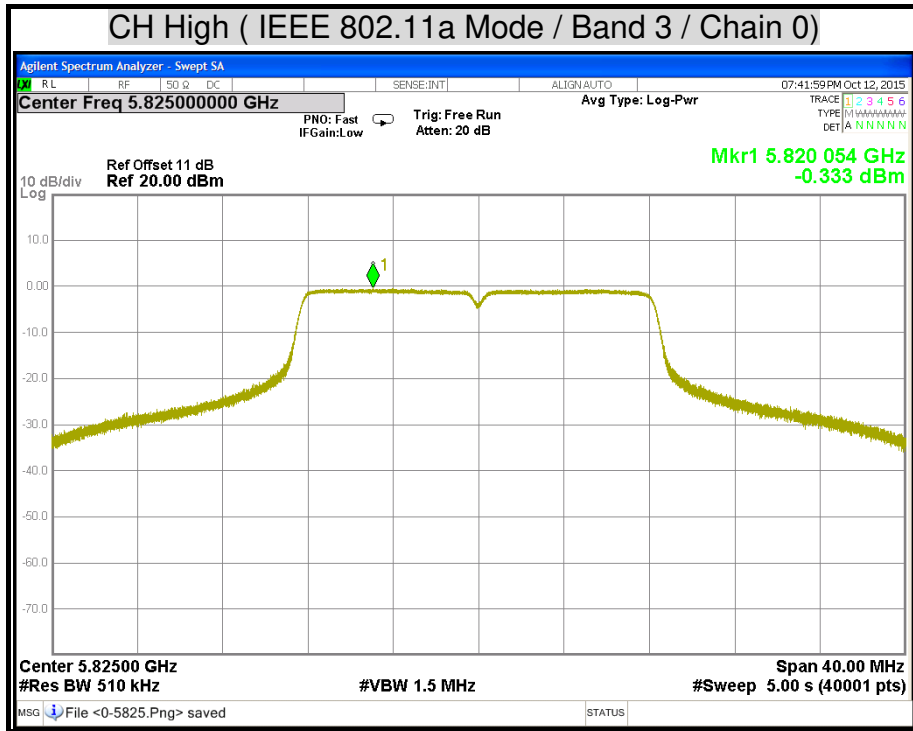




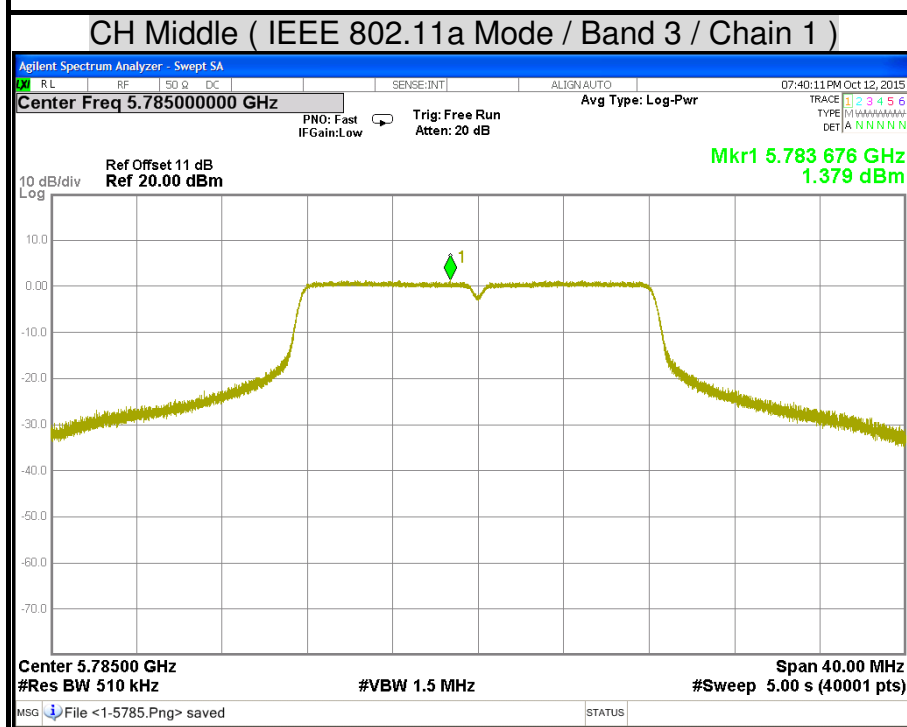
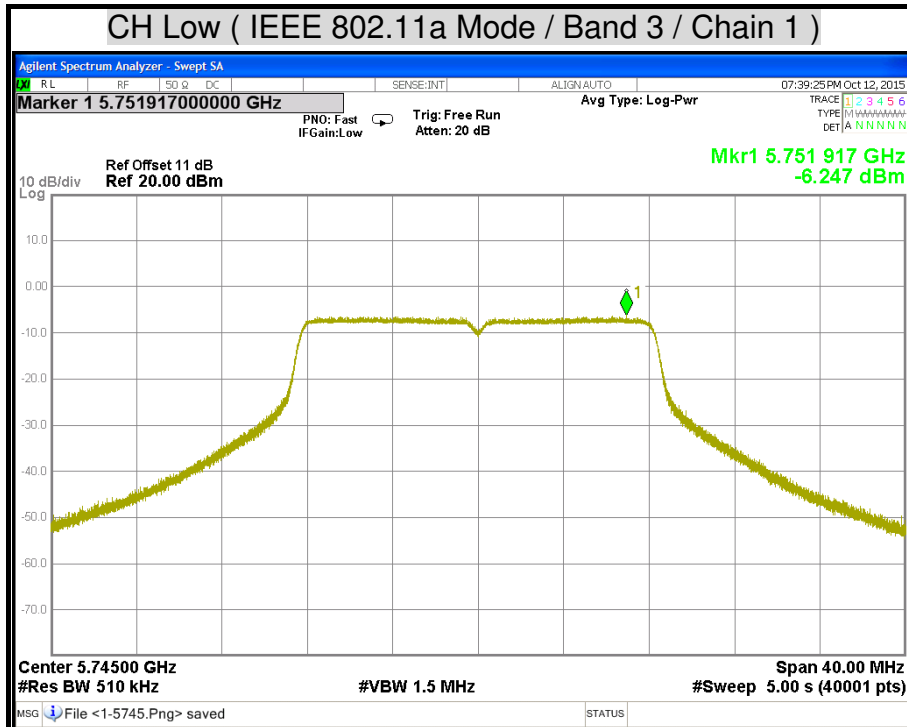


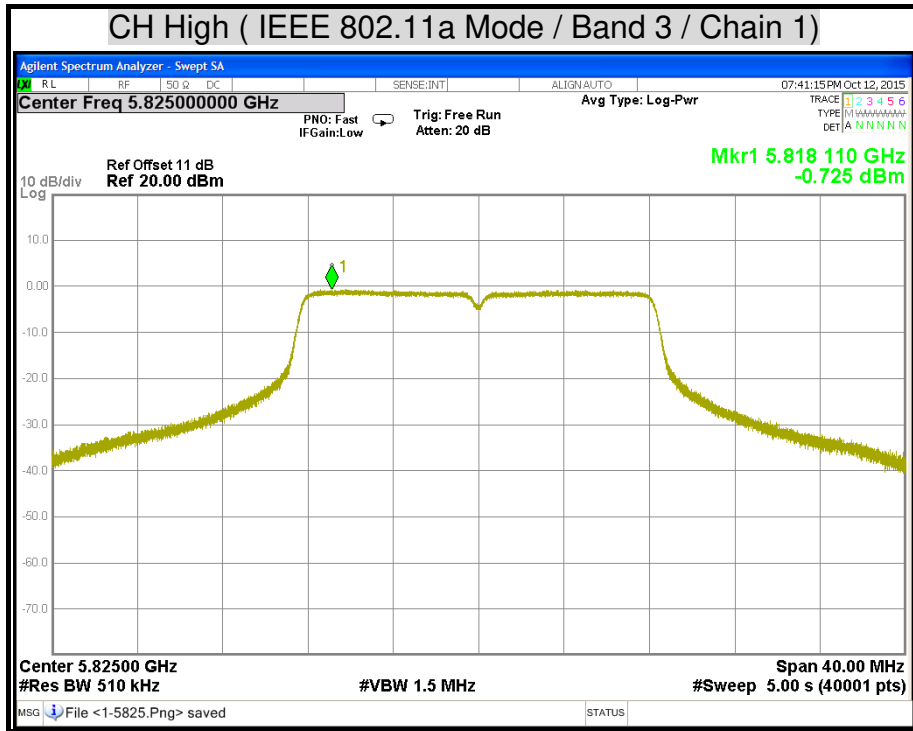


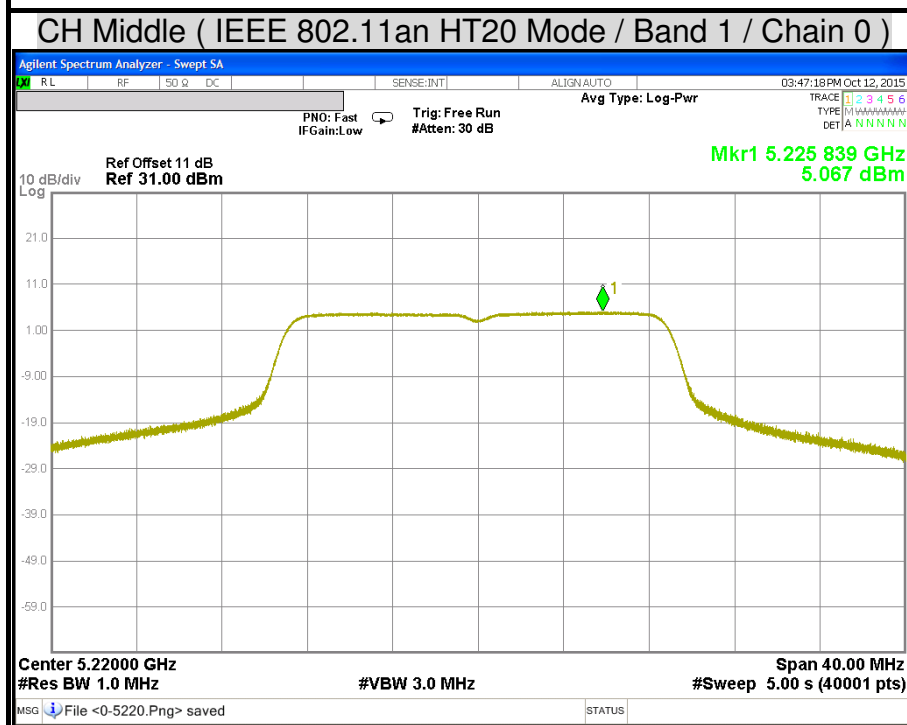
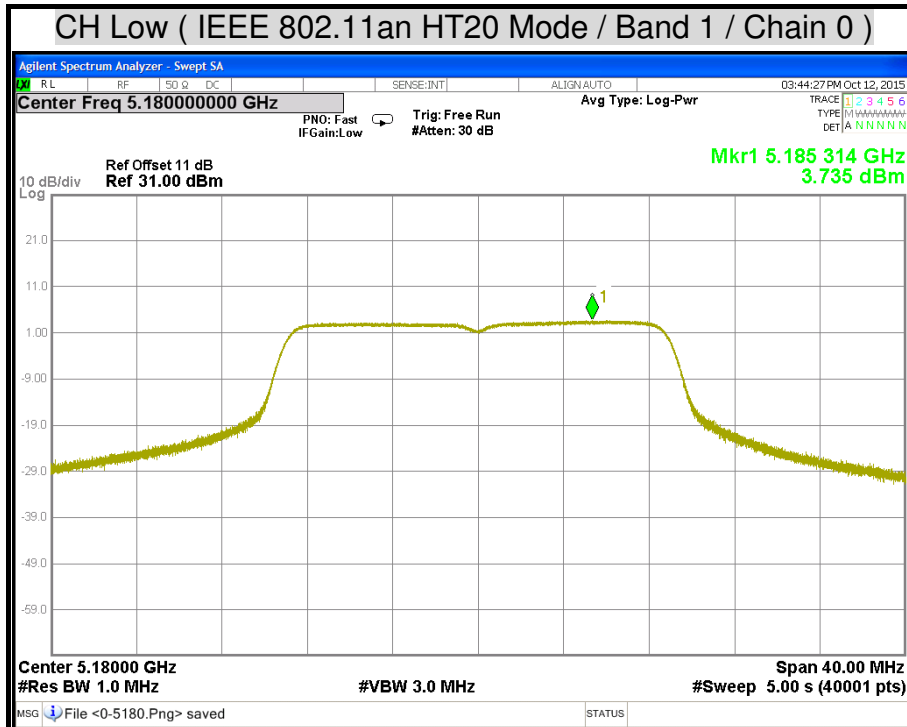


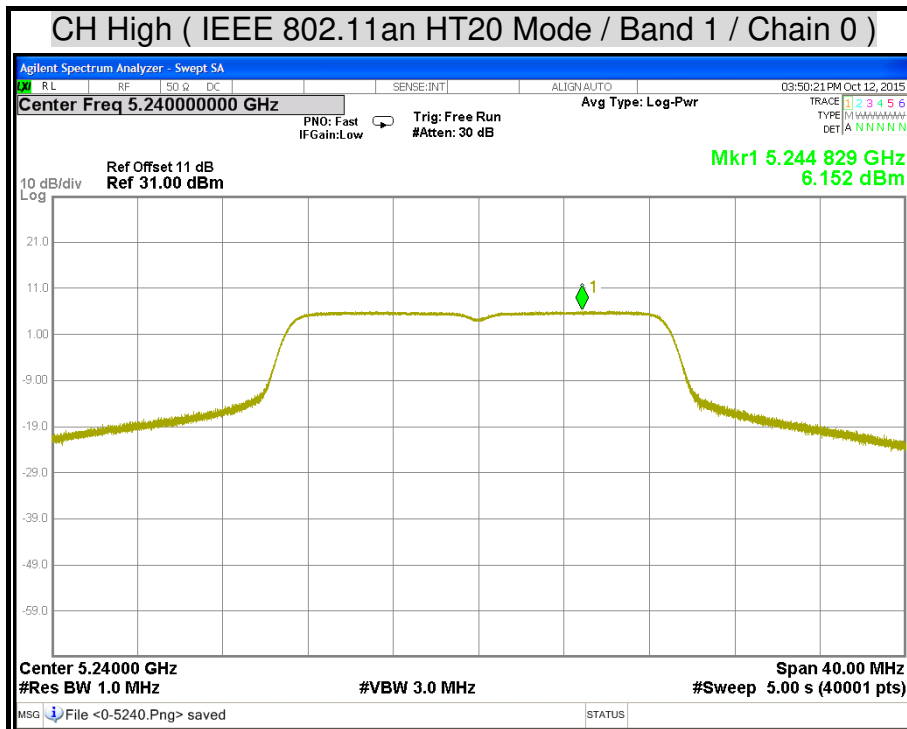


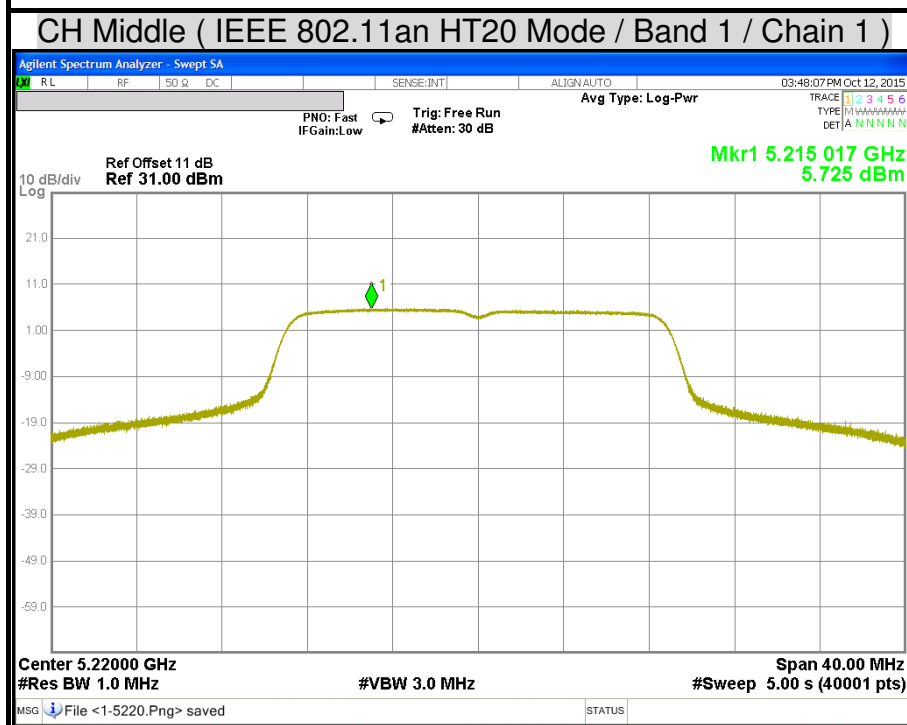
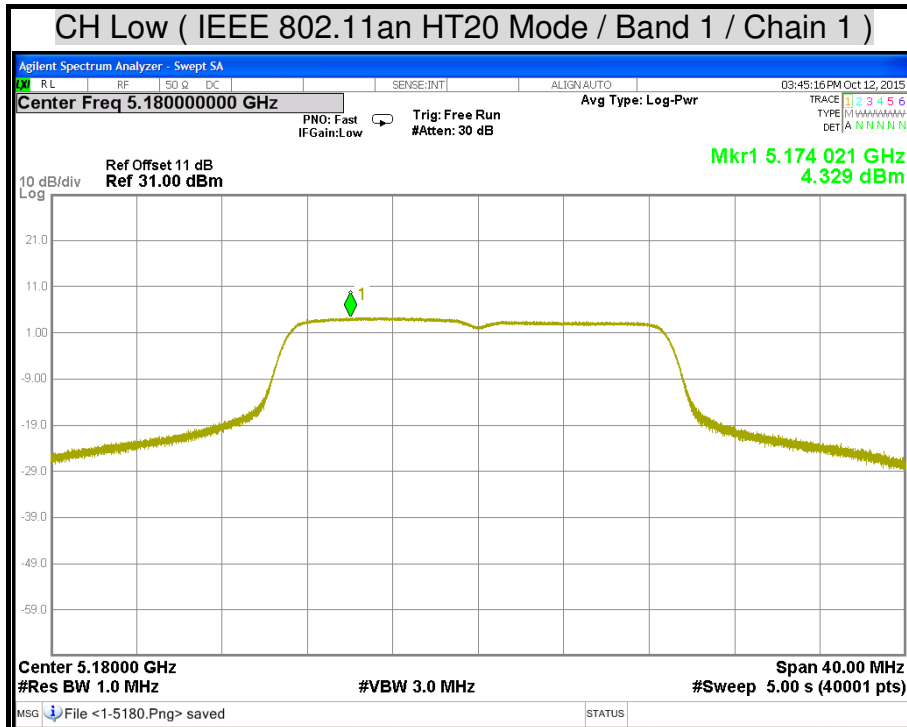


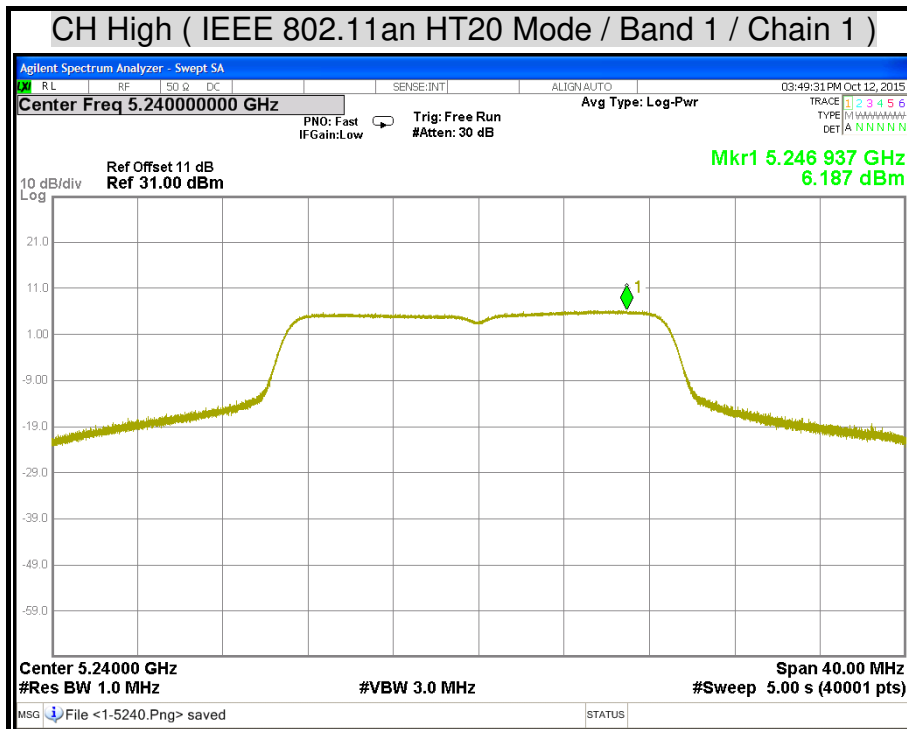


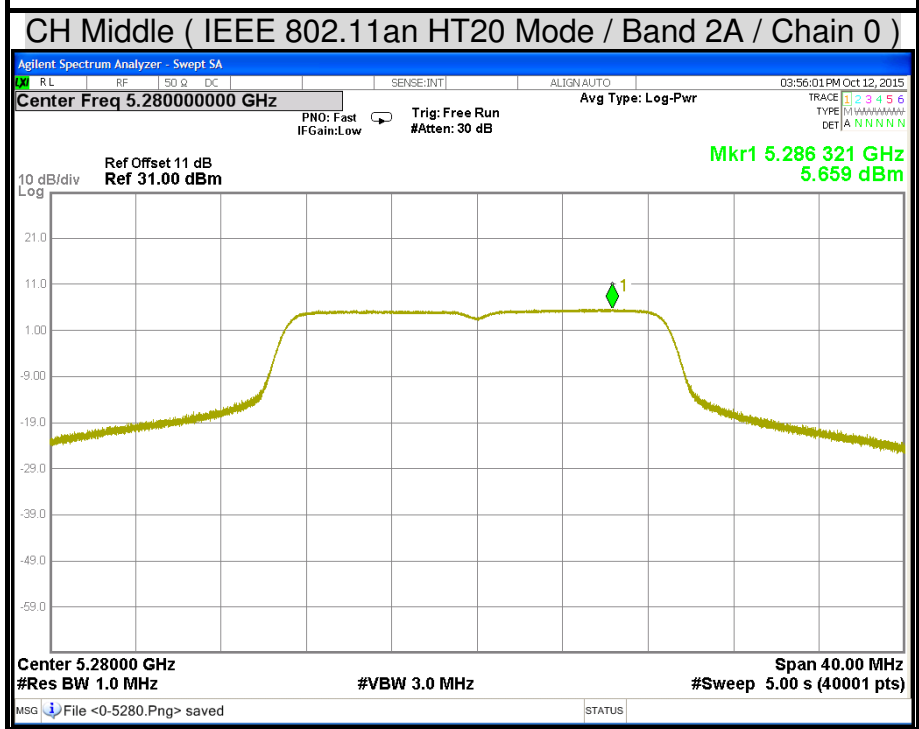
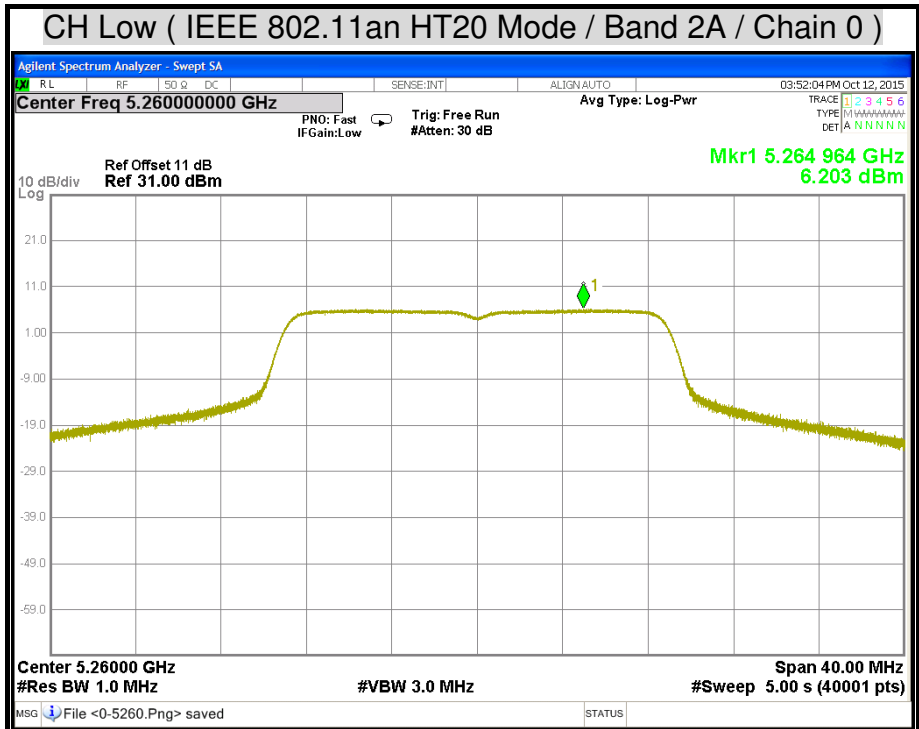


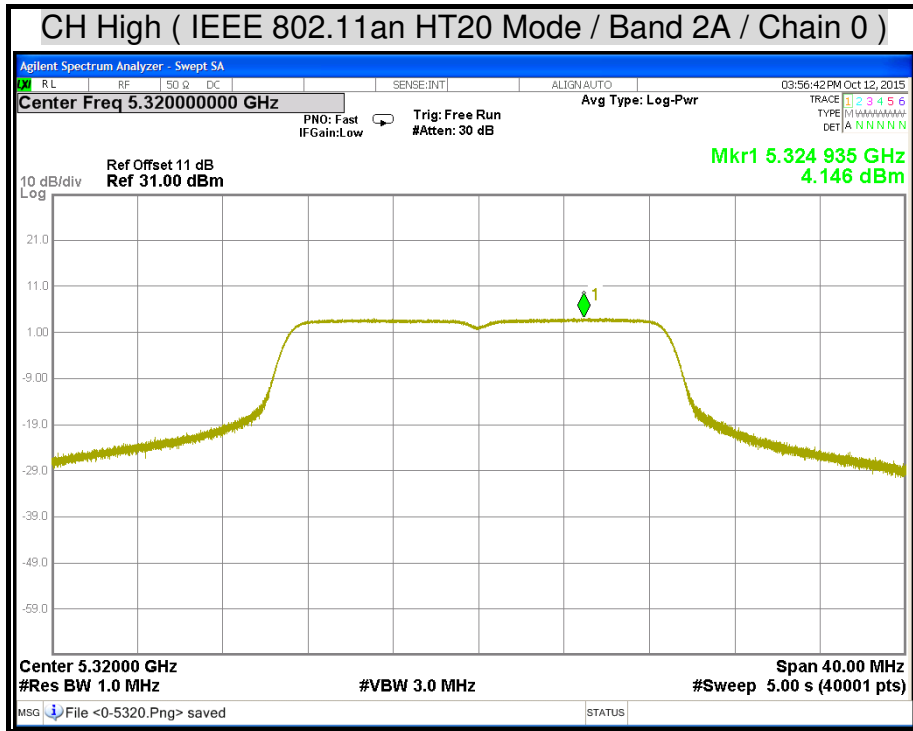




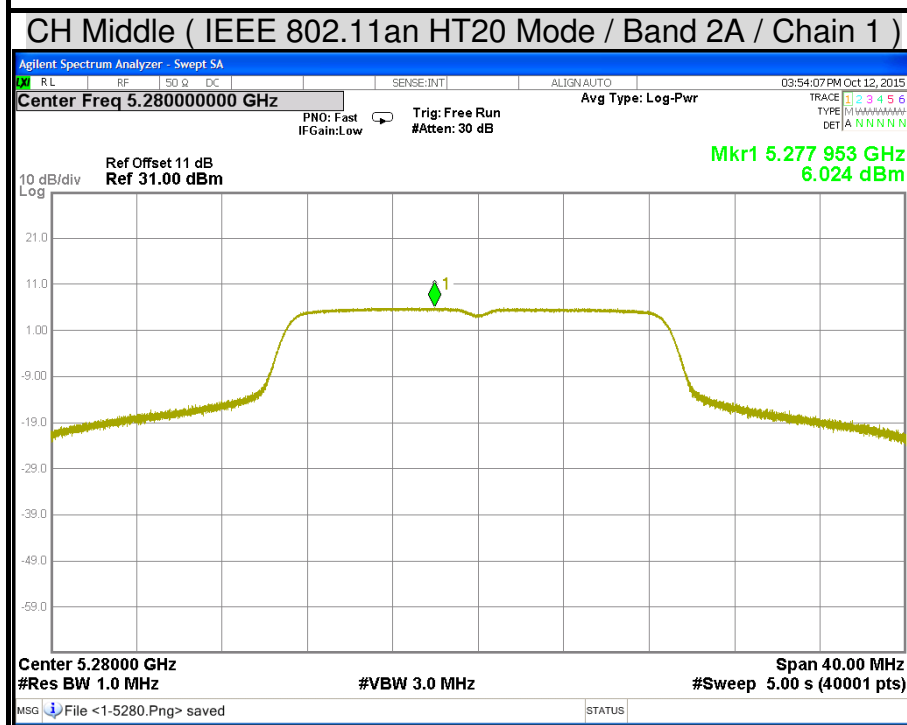
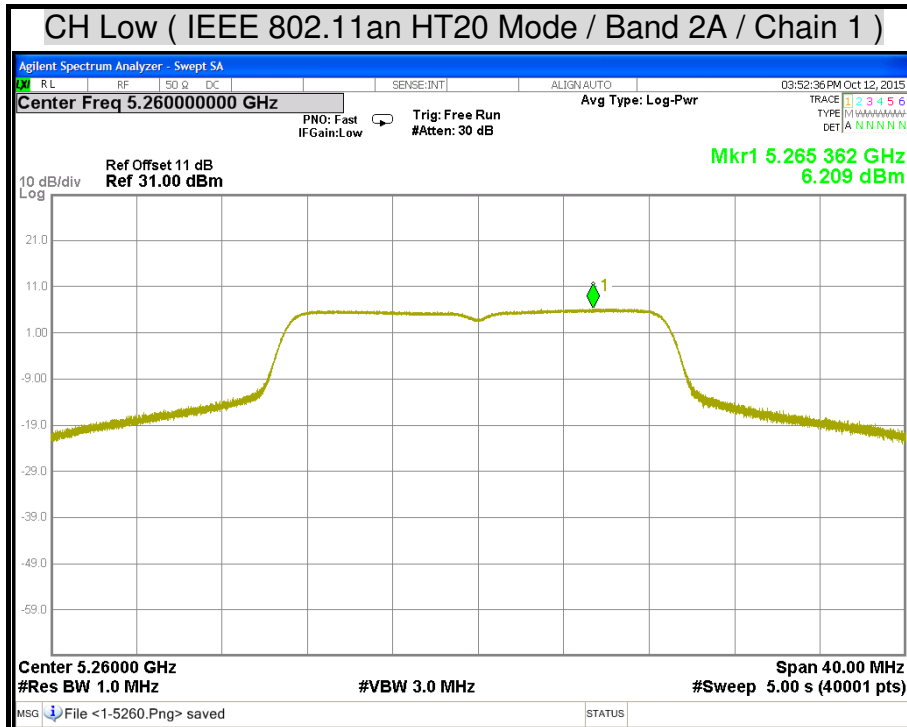


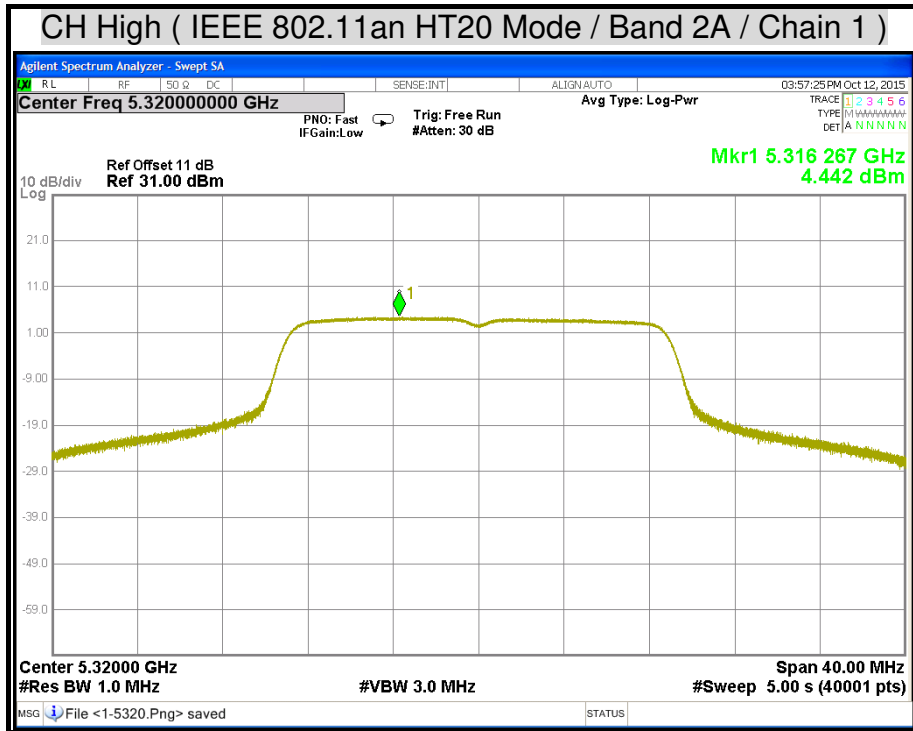


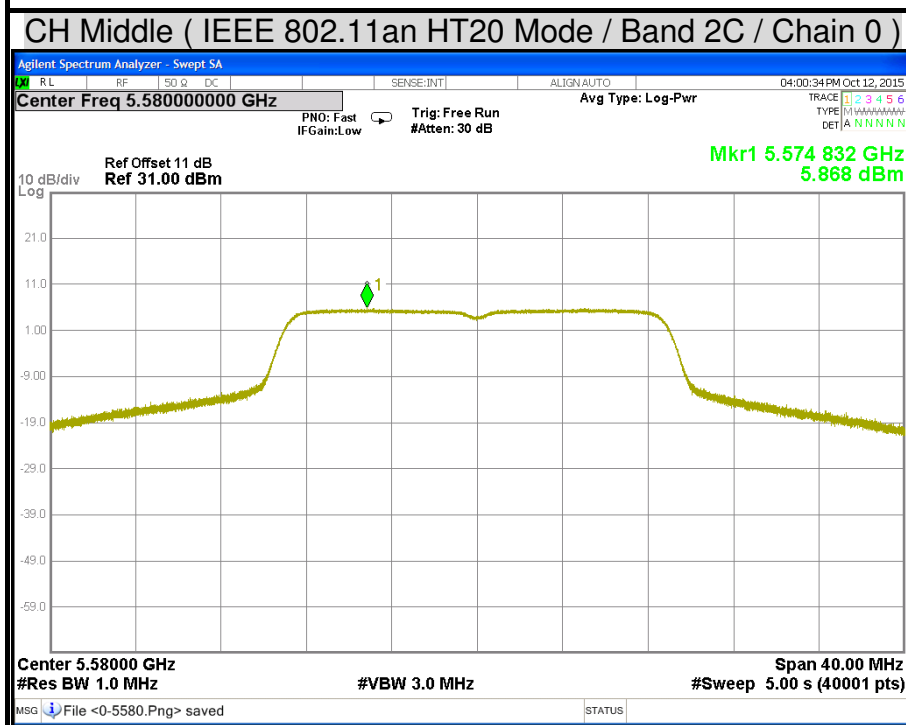
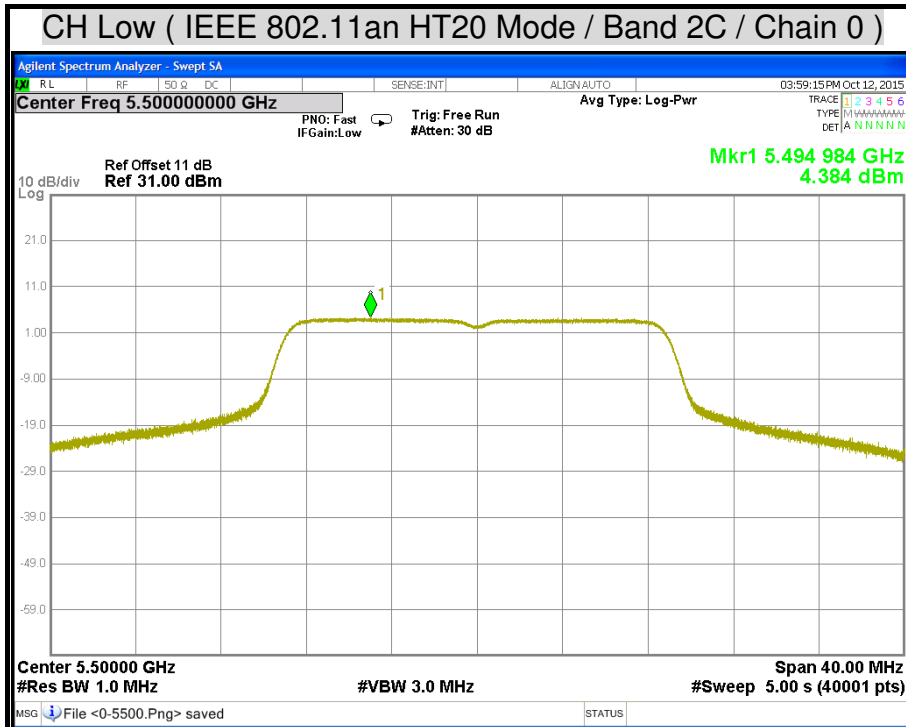


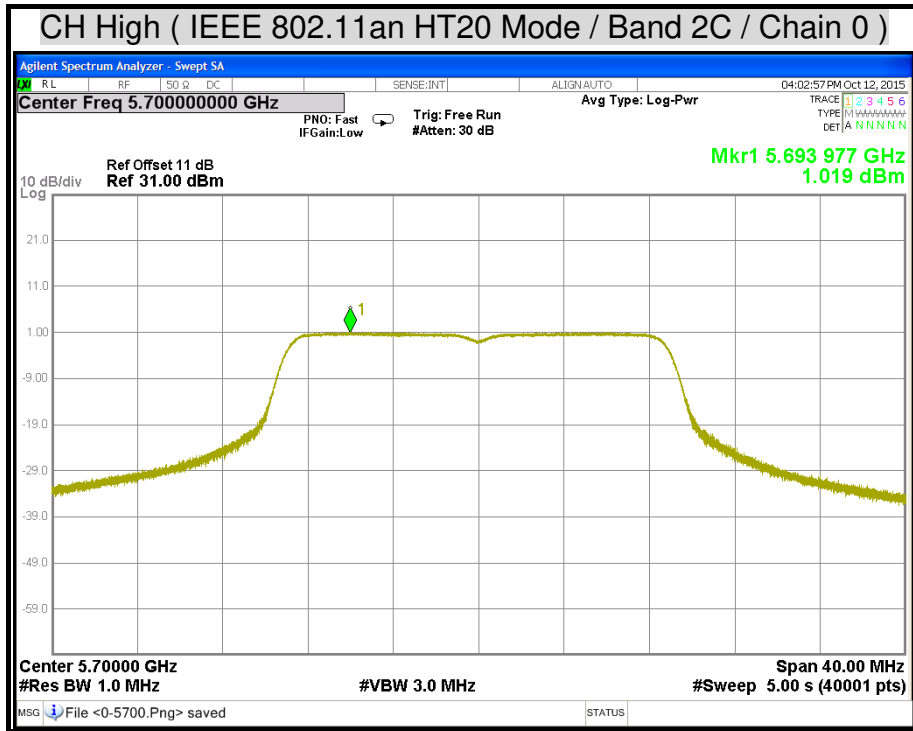


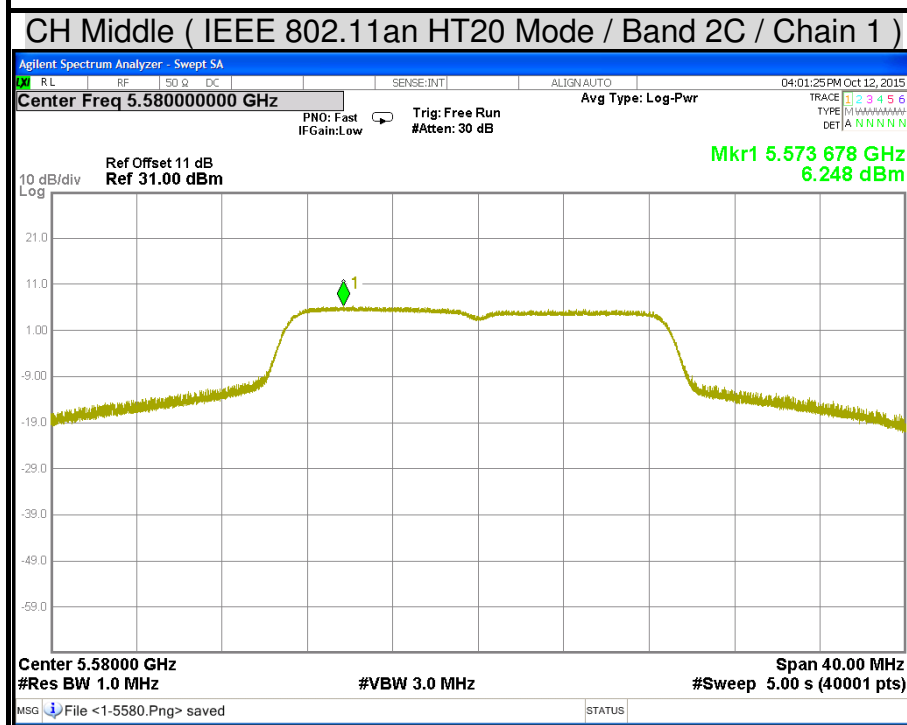
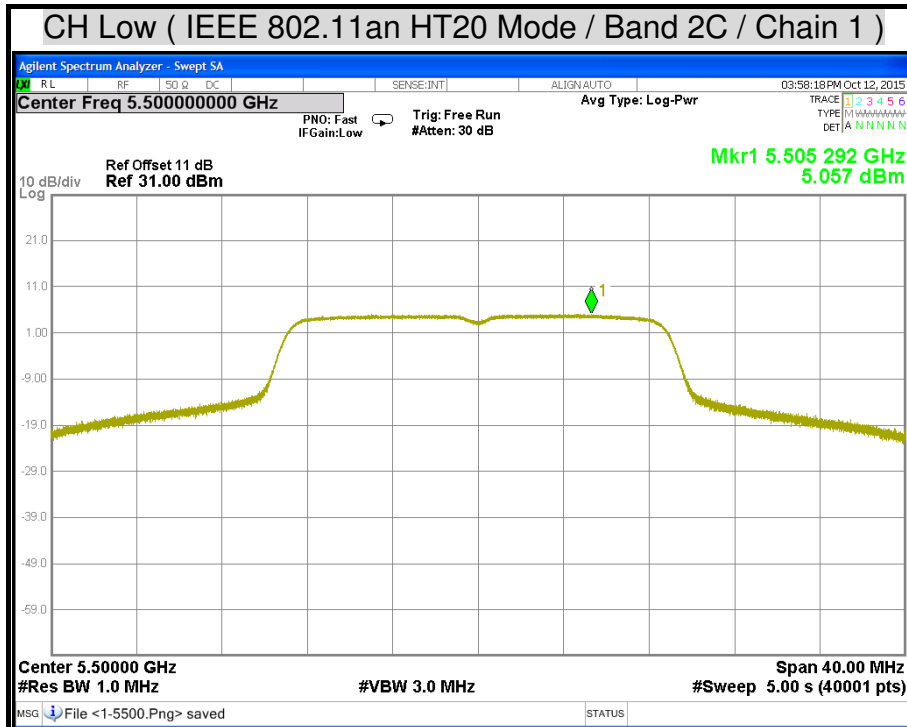


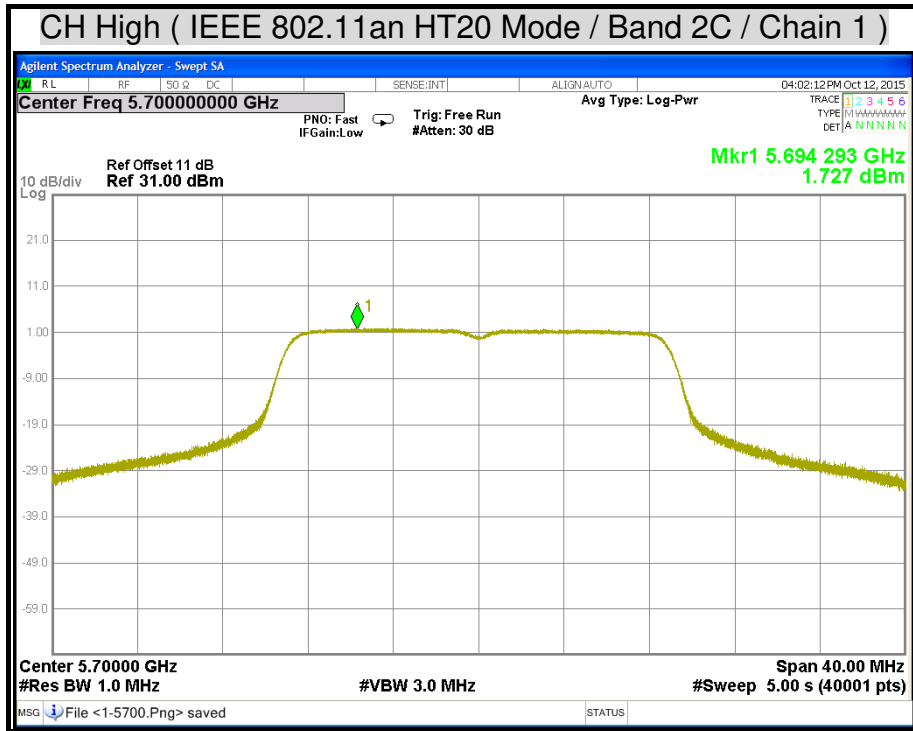


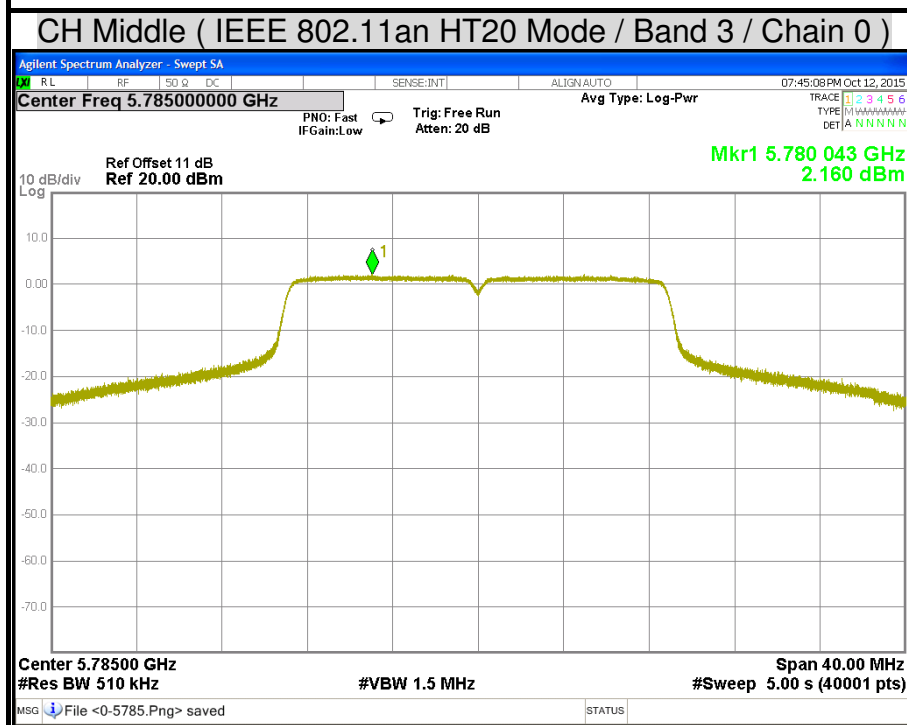
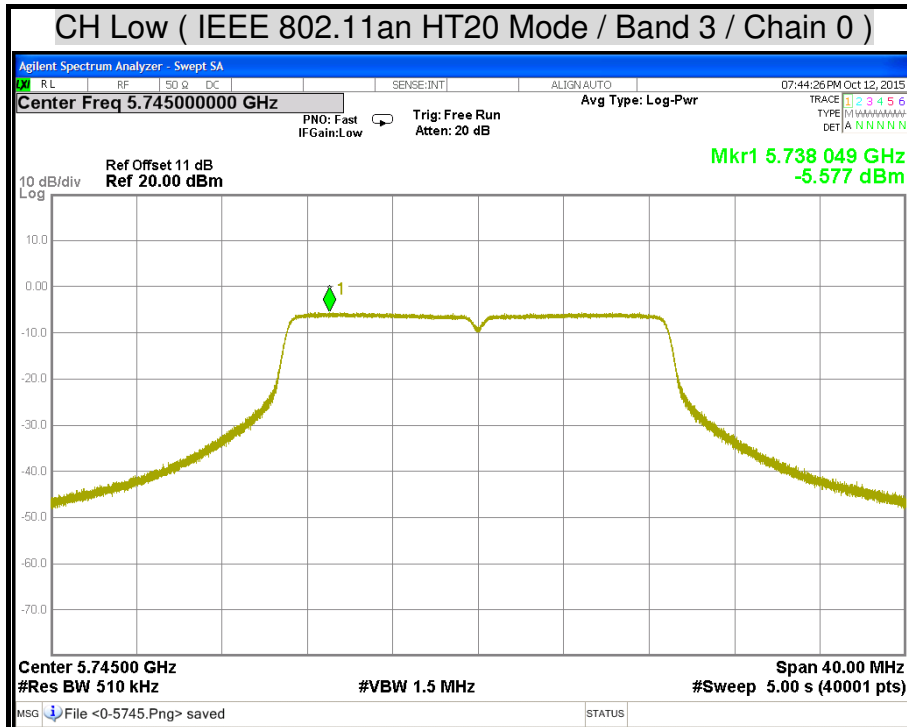


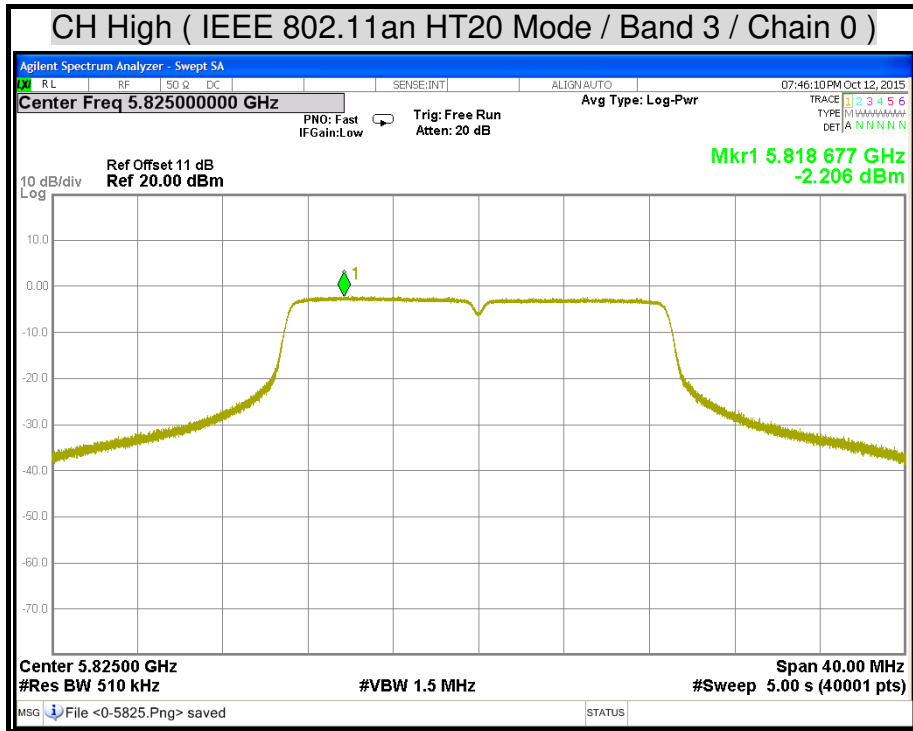




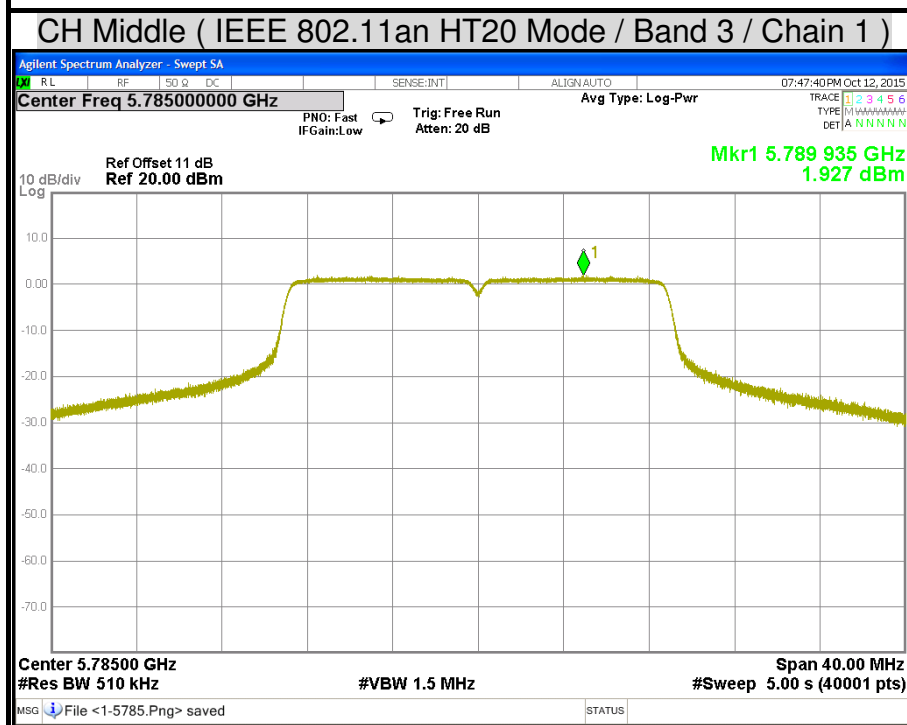
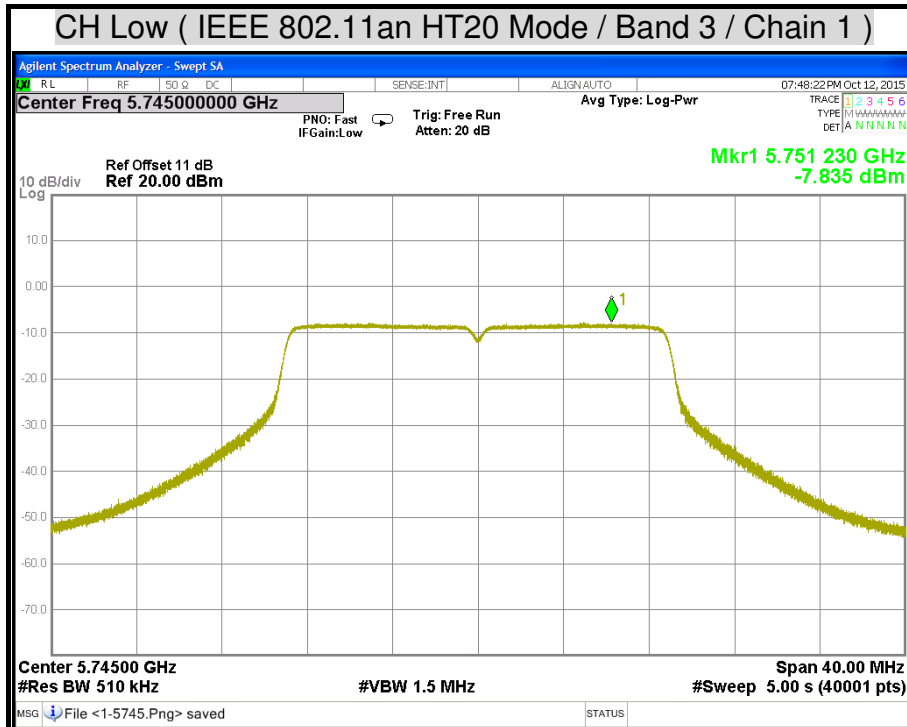


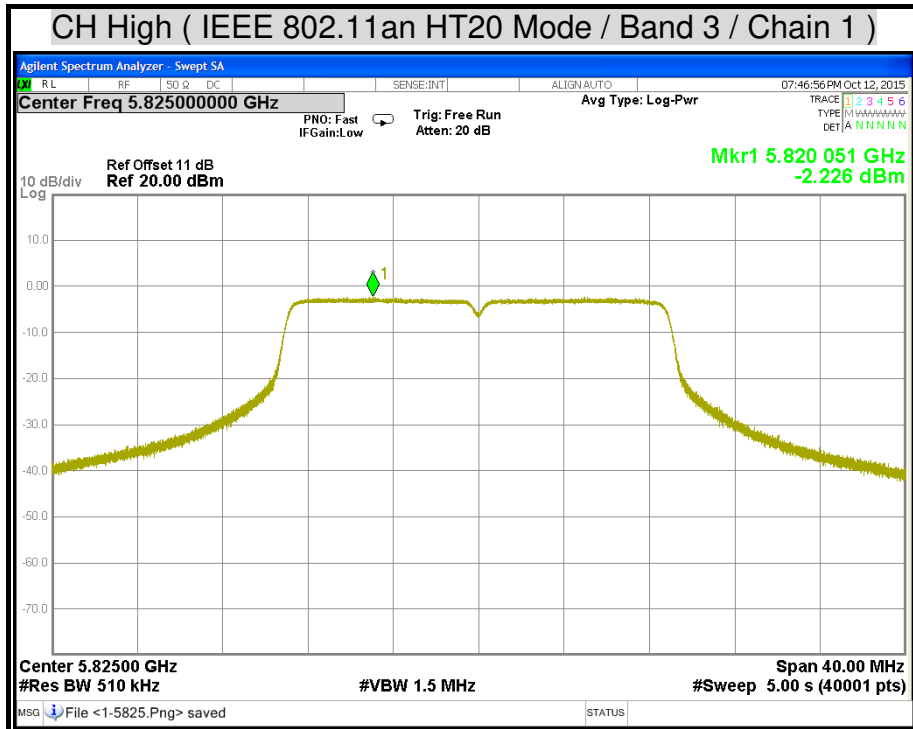


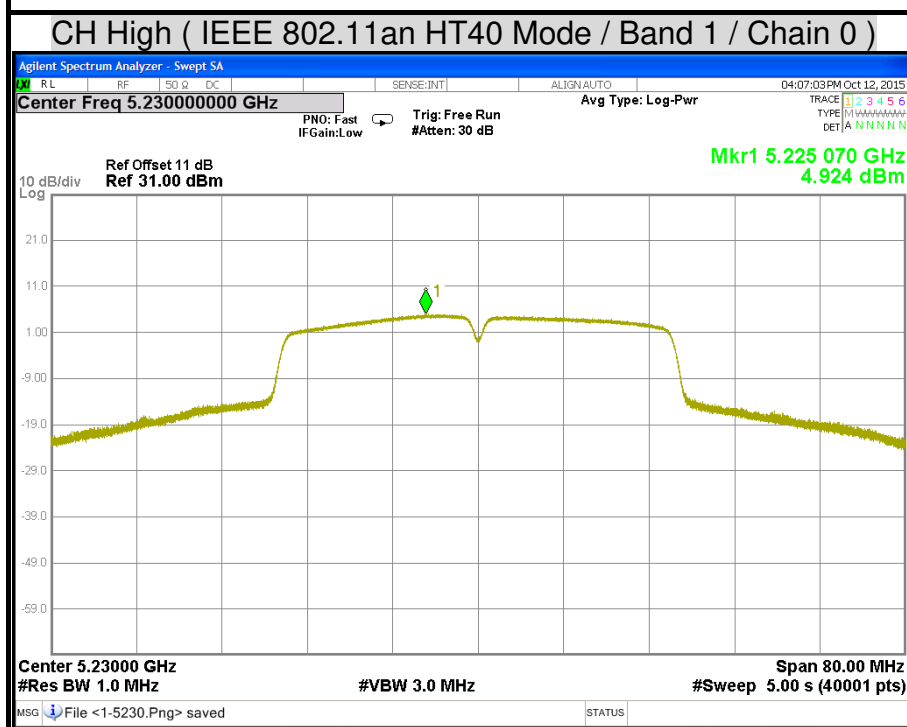
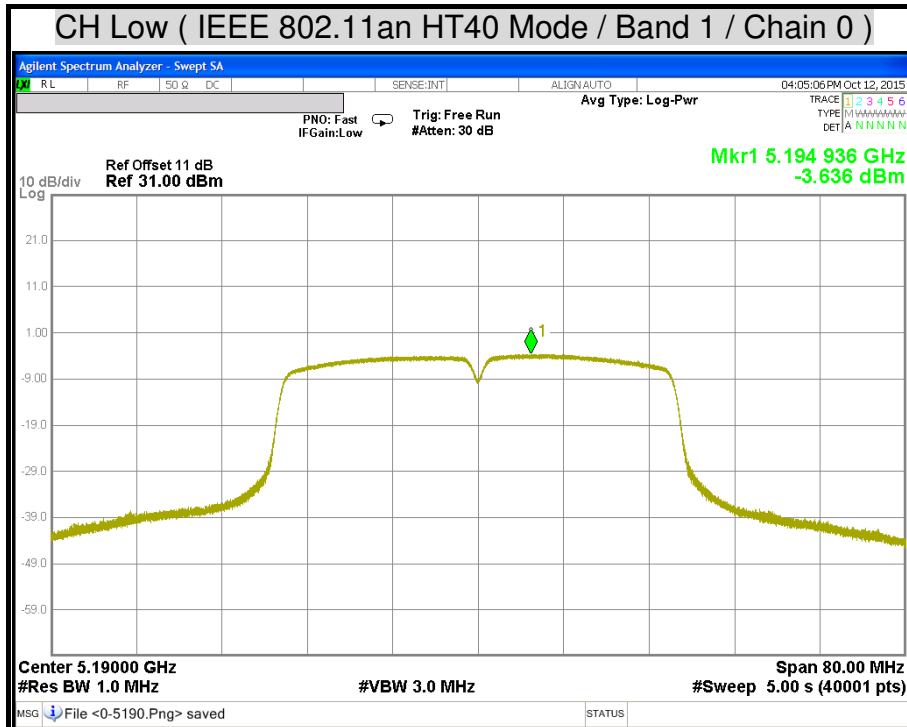


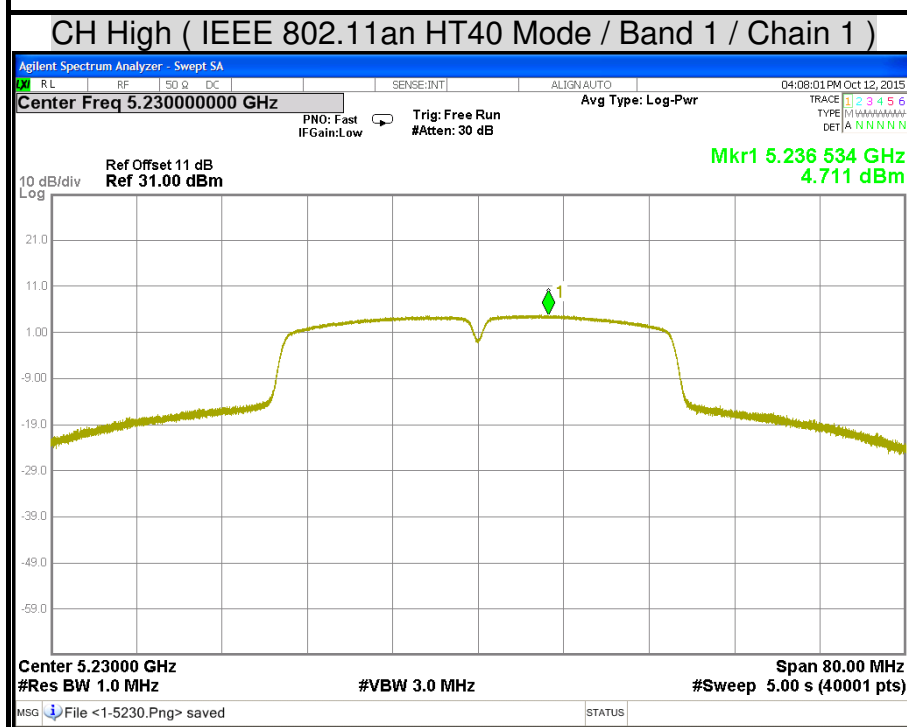
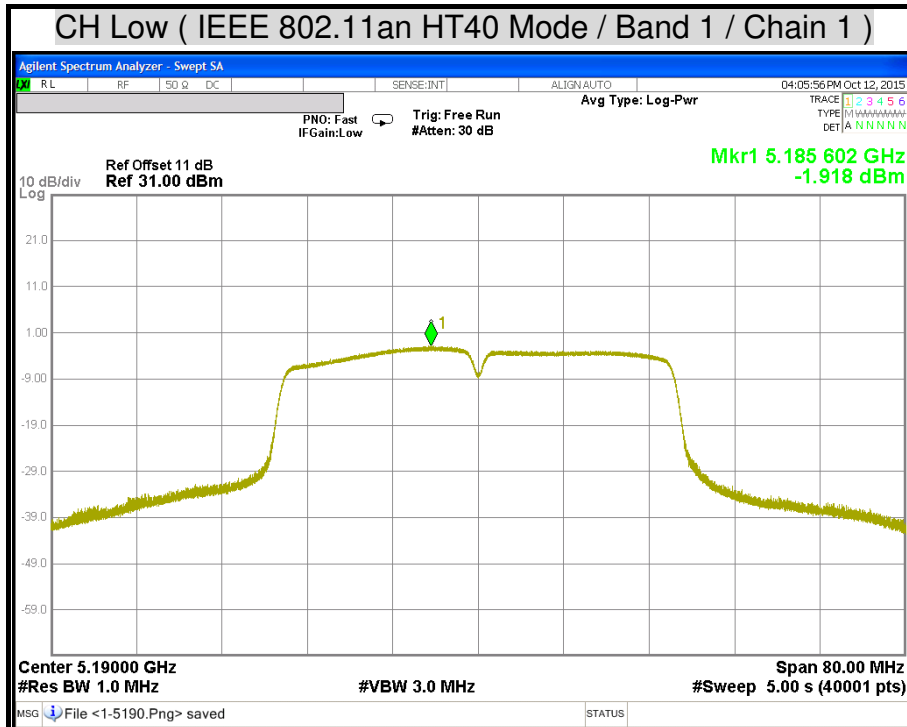


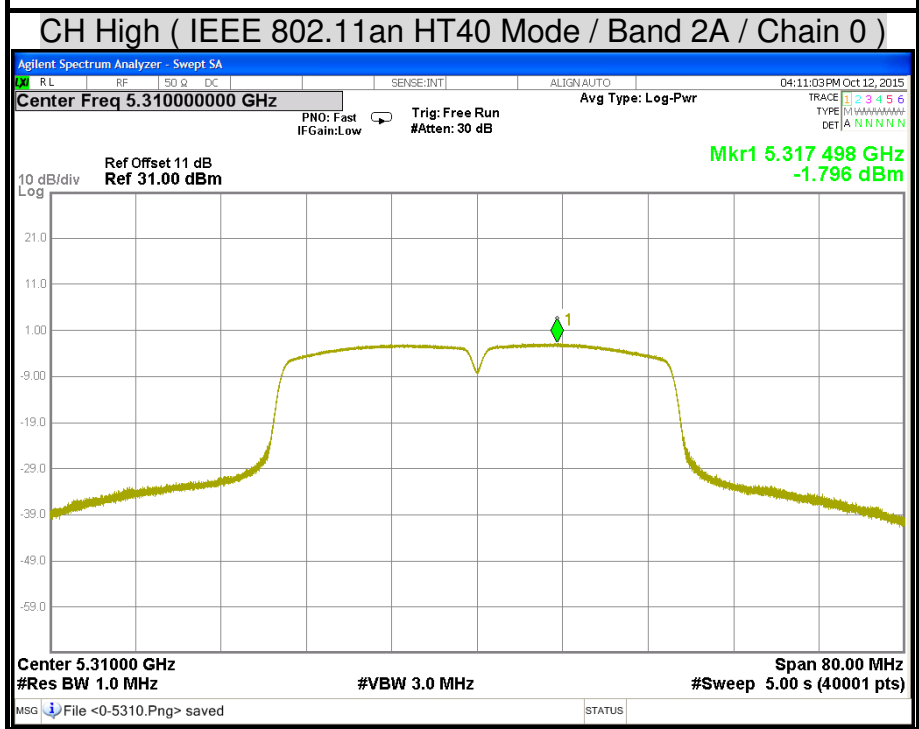
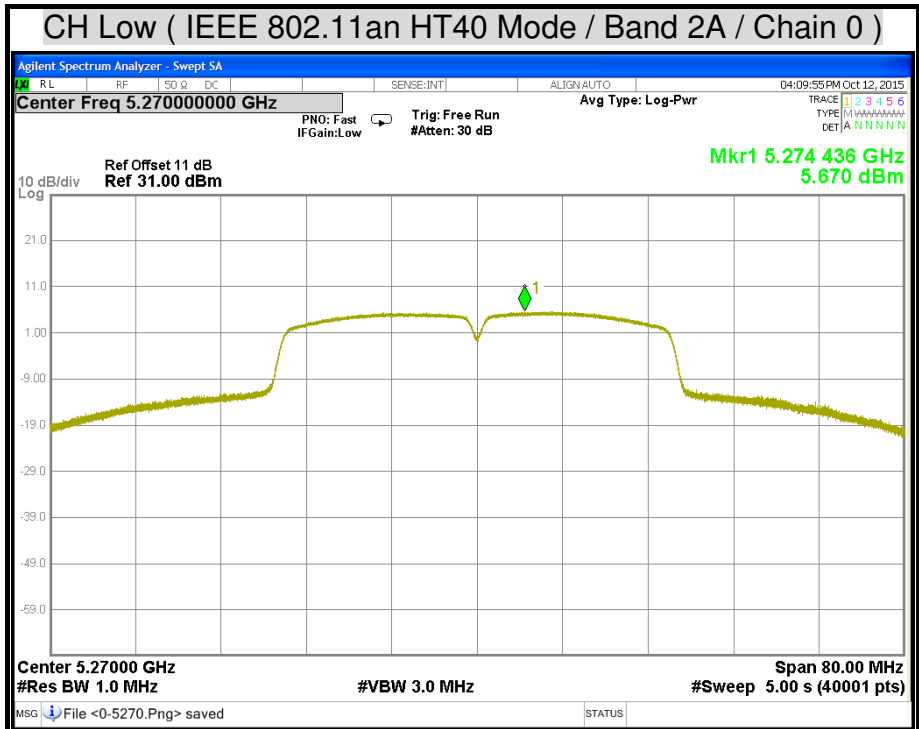


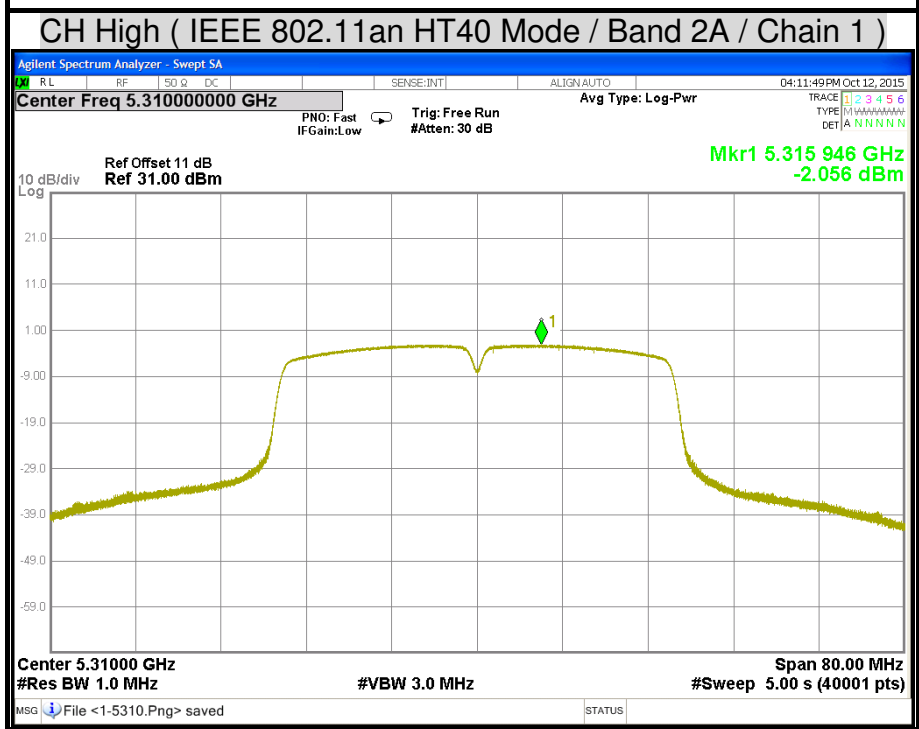
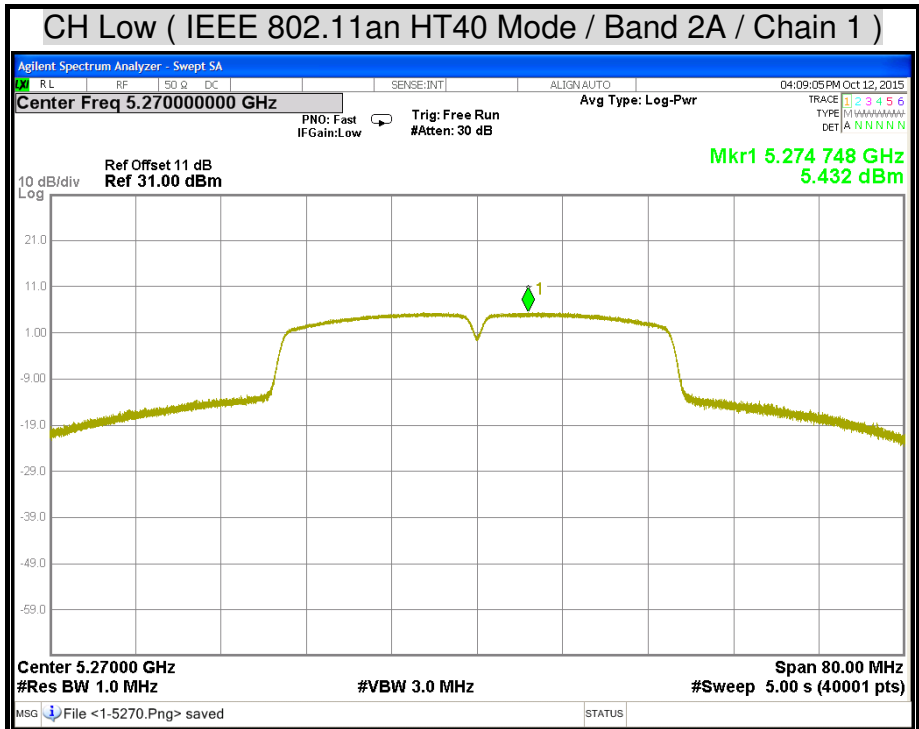


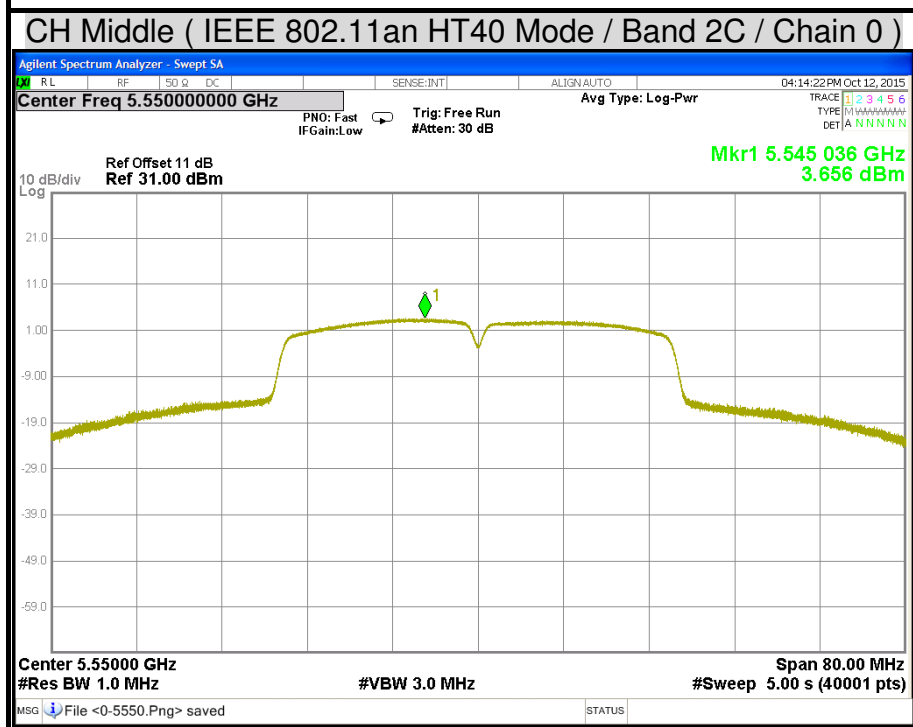
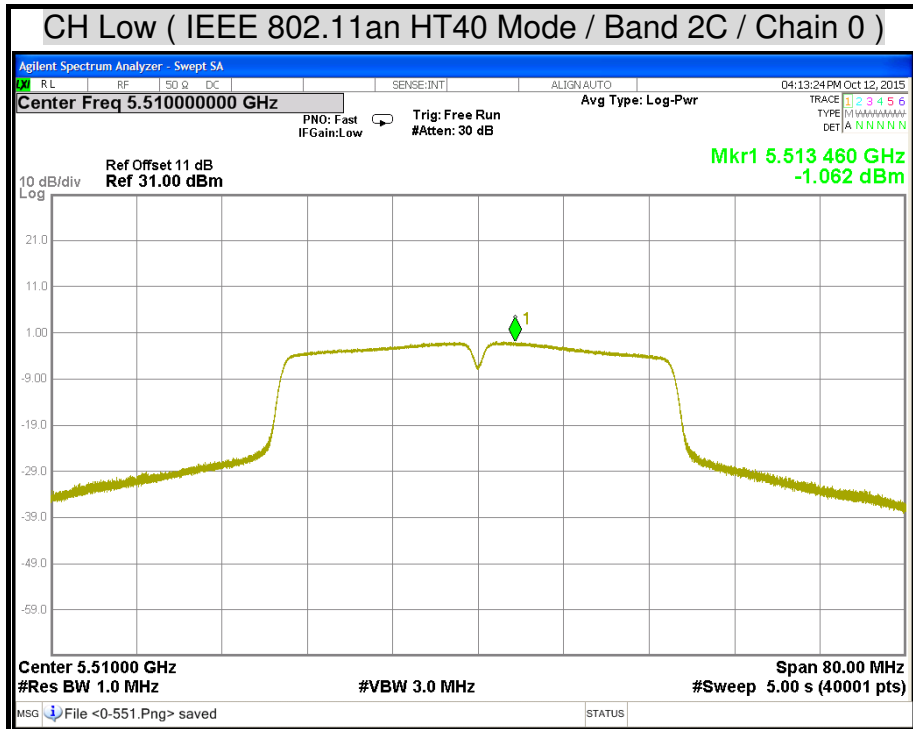


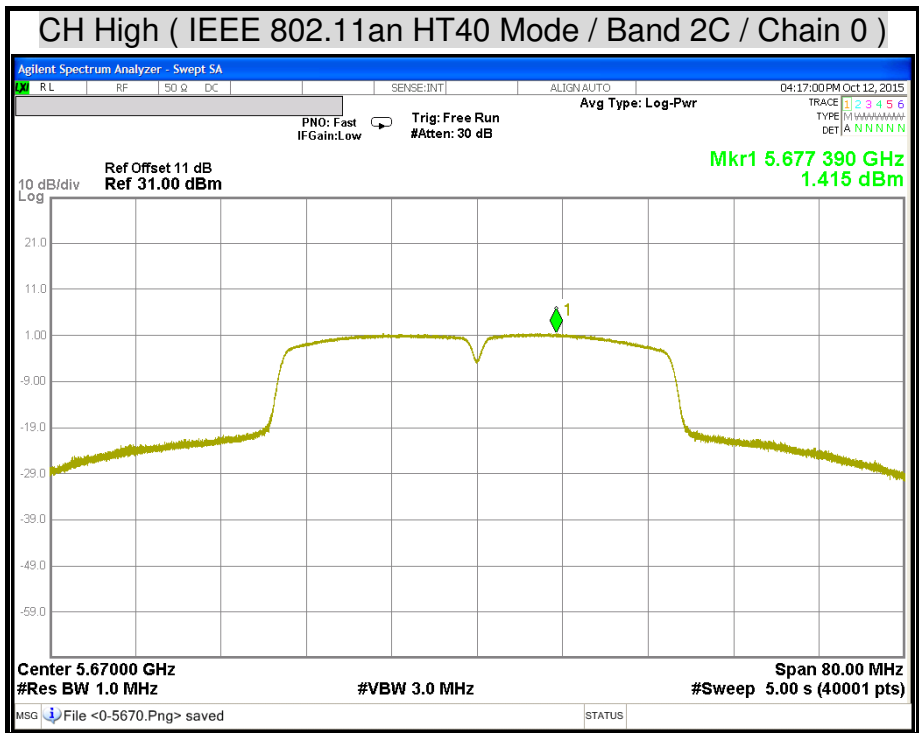




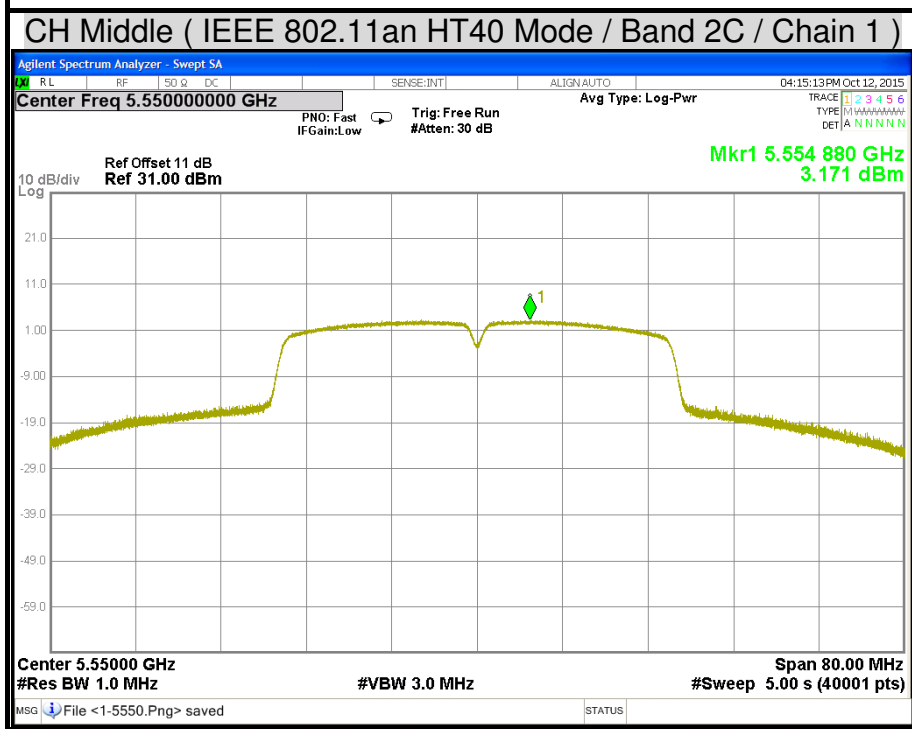
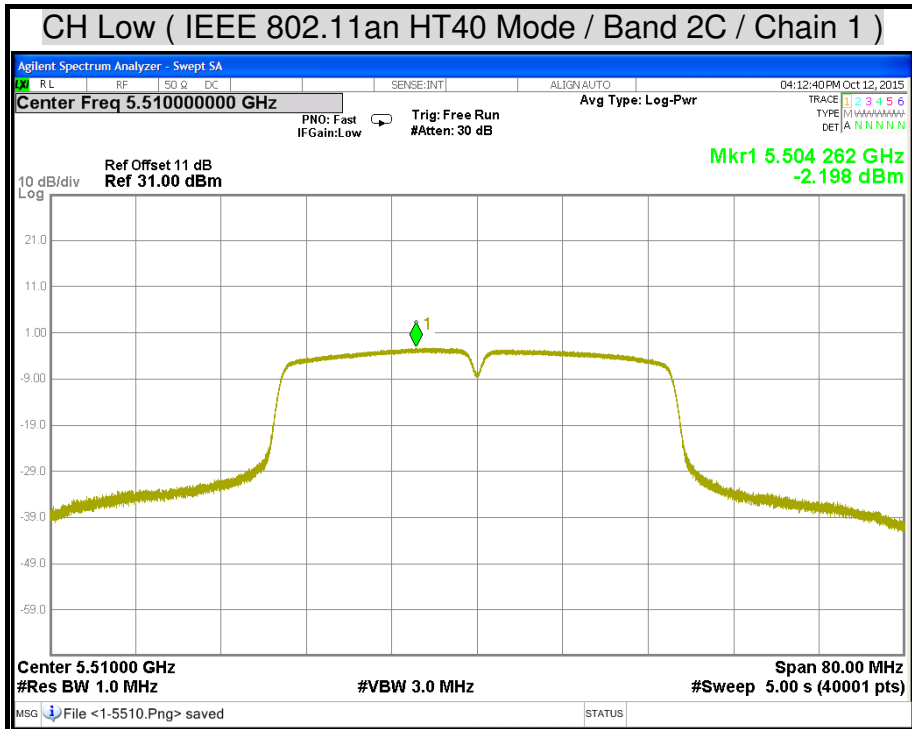


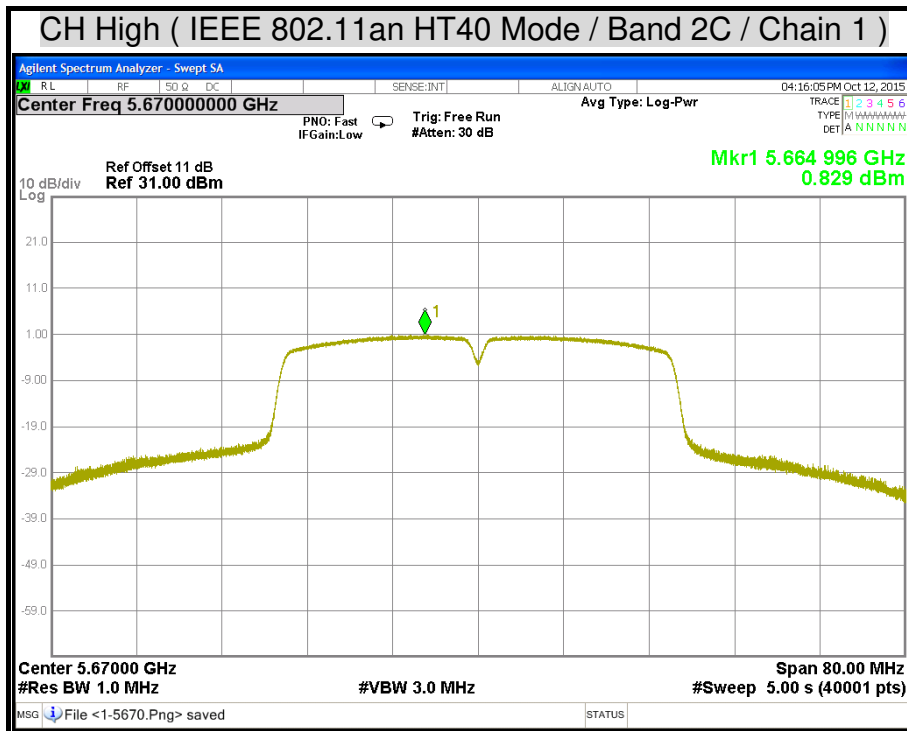


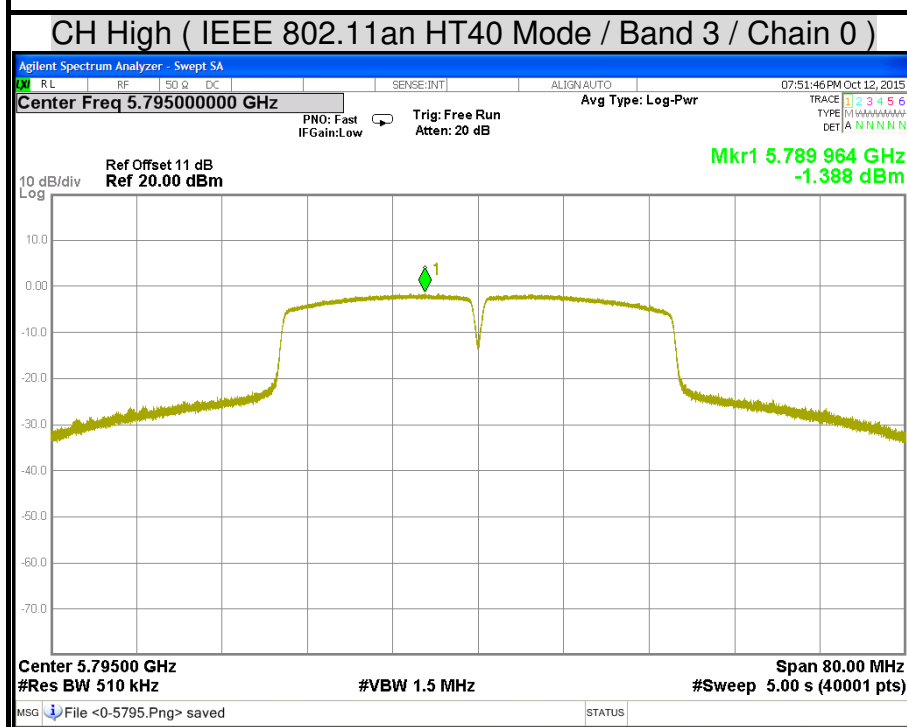
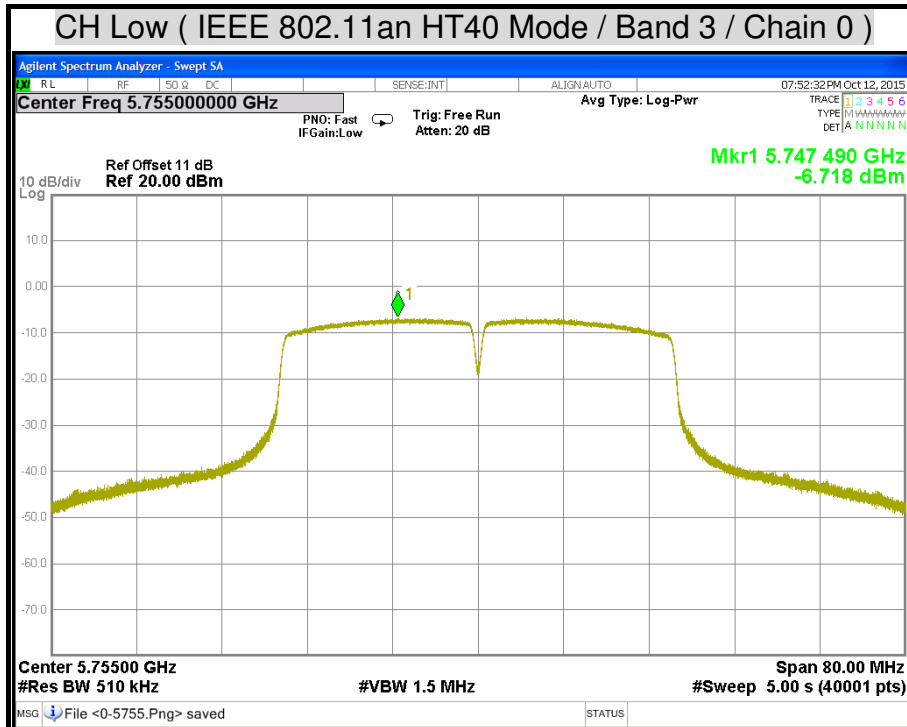


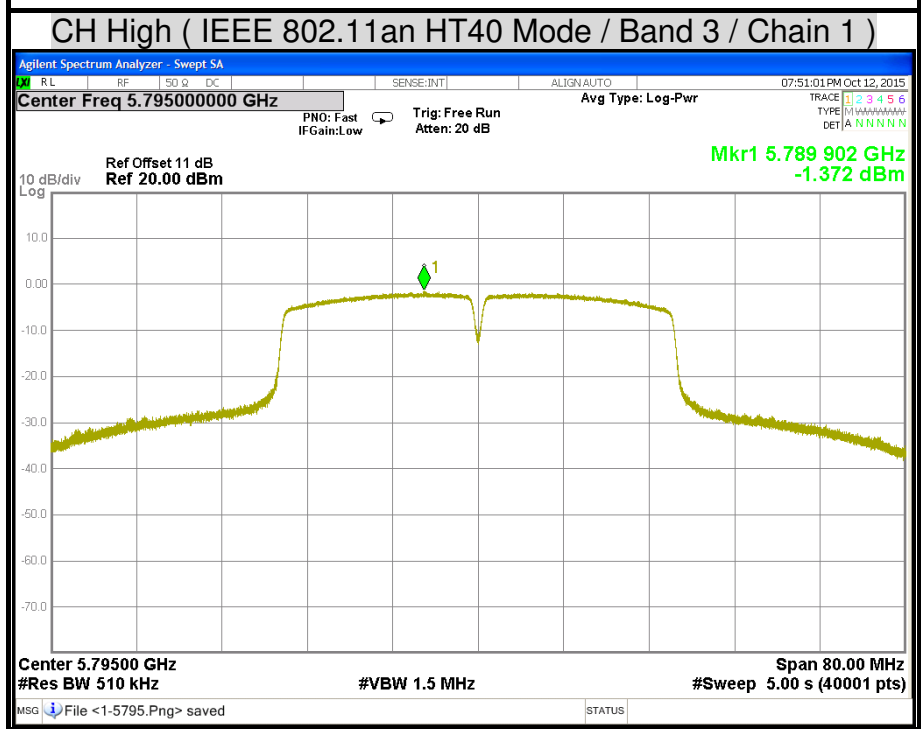
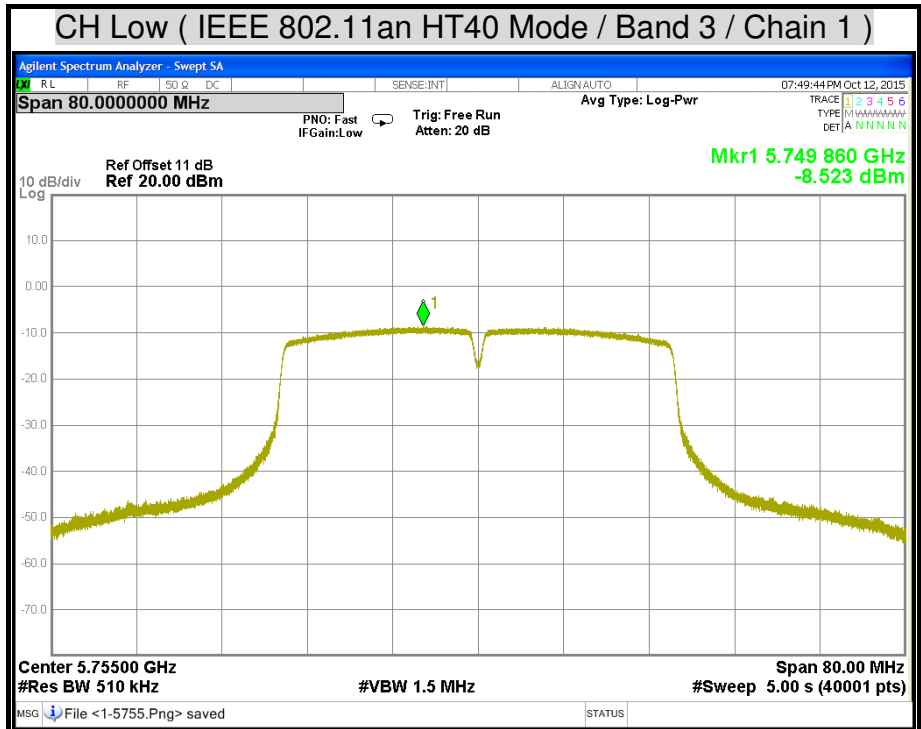












## 7.4 RADIATED EMISSION

### 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
<sup>1</sup> 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	( <sup>2</sup> )
13.36 - 13.41			

**Remark:**

1. <sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2. <sup>2</sup> 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.

(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**

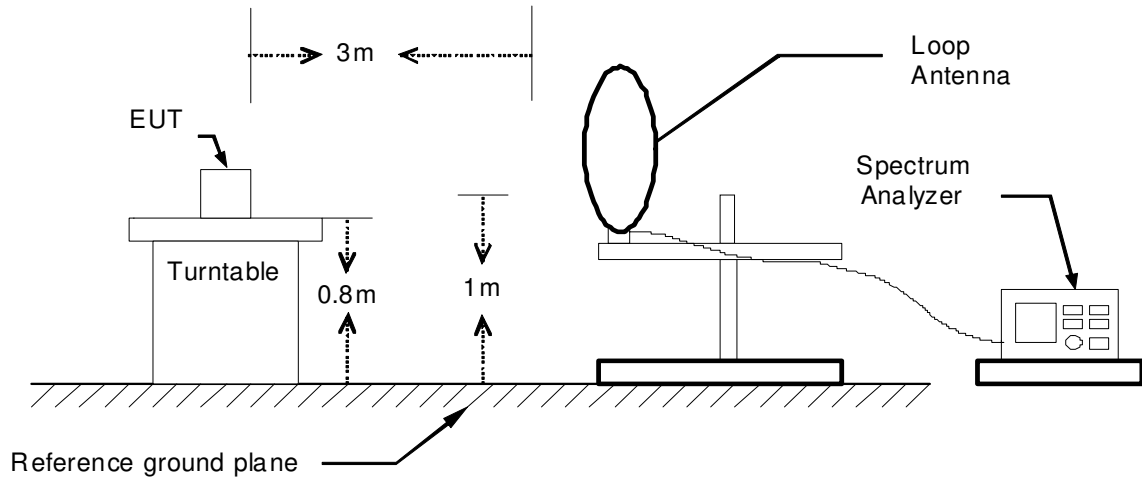
Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/14/2016
EMI Test Receiver	Rohde & Schwarz	ESCI	100221	04/22/2016
Bi-log Antenna	TESEQ	CBL 6112D	35403	08/04/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	12/02/2015
Horn Antenna	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.

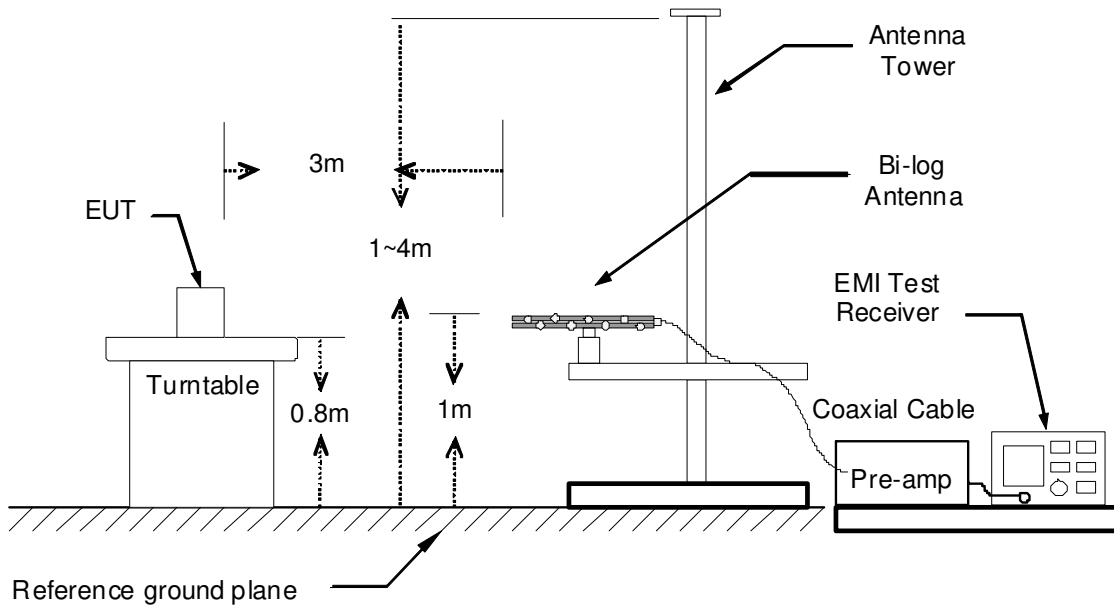
**TEST SETUP**

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

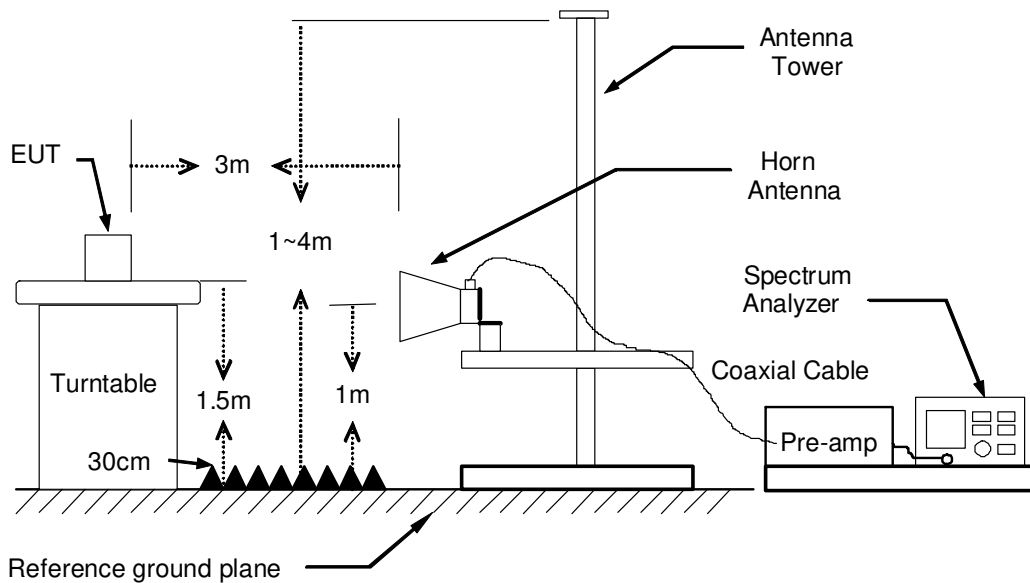
**9kHz ~ 30MHz**



**30MHz ~ 1GHz**



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.



**TEST RESULTS**

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

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

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

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/03
<b>Test Mode</b>	Mode 1	<b>Temp. &amp; Humidity</b>	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).

**Above 1 GHz**

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11a TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11a TX / CH Middle	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11a TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11an HT20 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11an HT20 TX / CH Middle	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11an HT20 TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11an HT40 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)



<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 1/ IEEE 802.11an HT40 TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11a TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11a TX / CH Middle	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11a TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11an HT20 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11an HT20 TX / CH Middle	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11an HT20 TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11an HT40 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)



<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/08/31
<b>Test Mode</b>	UNII Band 2A/ IEEE 802.11an HT40 TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11a TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11a TX / CH Middle	<b>Temp. &amp; Humidity</b>	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.  $Result = Reading + Correction\ Factor$   
 $Margin = Result - Limit$   
 $Remark\ Peak = Result(PK) - Limit(PK)$   
 $Remark\ AVG = Result(AV) - Limit(AV)$

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11a TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11an HT20 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11an HT20 TX / CH Middle	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11an HT20 TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11an HT40 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)



<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11an HT40 TX / CH Middle	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/17
<b>Test Mode</b>	UNII Band 2C/ IEEE 802.11an HT40 TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11a TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11a TX / CH Middle	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11a TX / CH High	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11an HT20 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11an HT20 TX / CH Middle	<b>Temp. &amp; Humidity</b>	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.  $Result = Reading + Correction\ Factor$   
 $Margin = Result - Limit$   
 $Remark\ Peak = Result(PK) - Limit(PK)$   
 $Remark\ AVG = Result(AV) - Limit(AV)$

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11an HT20 TX / CH High	<b>Temp. &amp; Humidity</b>	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)



<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11an HT40 TX / CH Low	<b>Temp. &amp; Humidity</b>	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)

<b>Product Name</b>	Computer	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	MIT-W101	<b>Test Date</b>	2015/09/02
<b>Test Mode</b>	UNII Band 3/ IEEE 802.11an HT40 TX / CH High	<b>Temp. &amp; Humidity</b>	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**

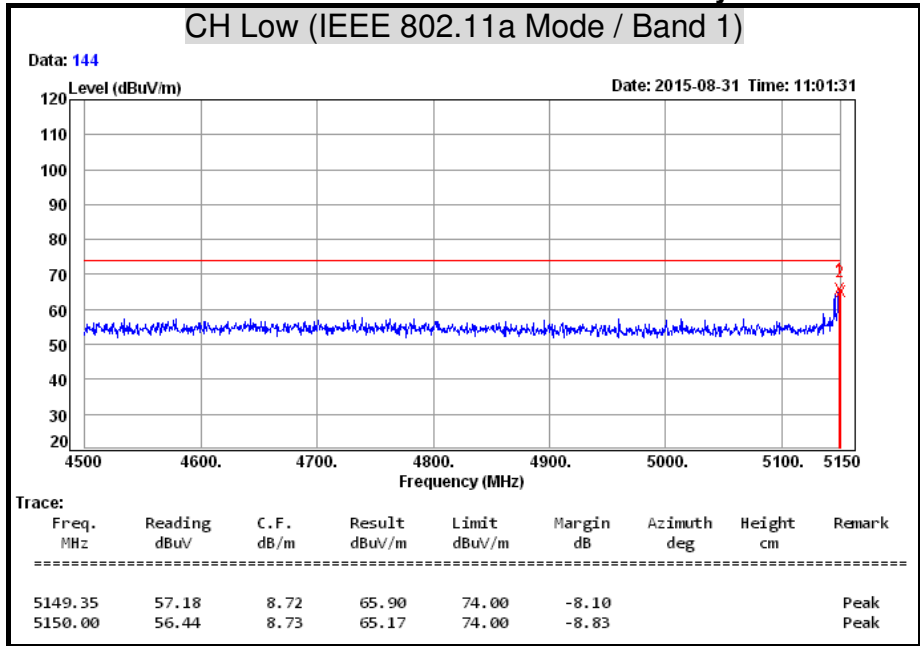
Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
3180.00	46.17	4.39	50.56	74.00	-23.44	49	100	Peak
5725.00	33.55	10.75	44.30	54.00	-9.70	67	100	Average
5725.00	55.88	10.75	66.63	74.00	-7.37	67	100	Peak
5850.00	40.60	11.11	51.71	54.00	-2.29	278	100	Average
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:**

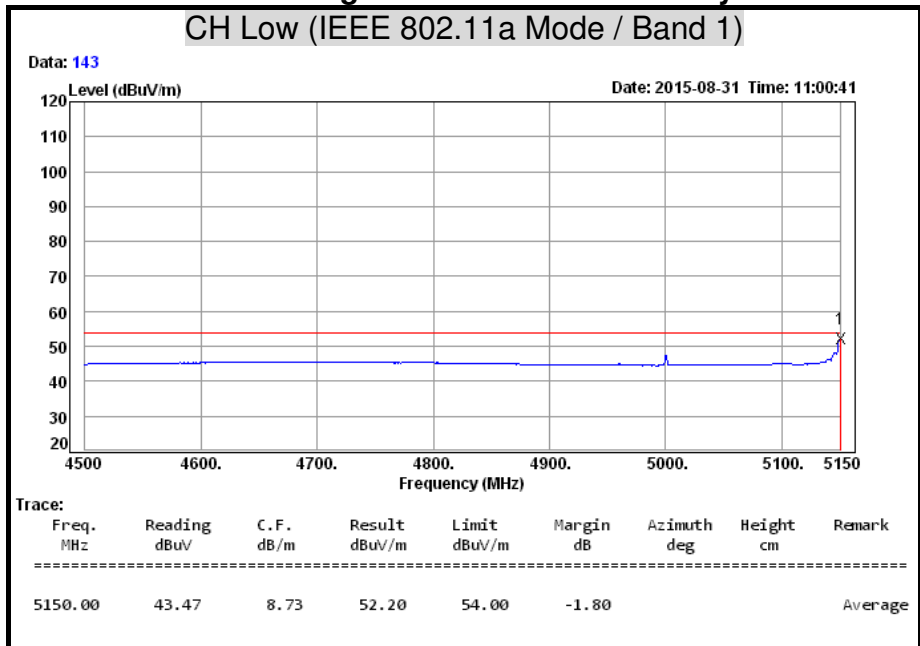
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific 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)

**Restricted Band Edges**

**Detector Mode : Peak      Polarity : Horizontal**

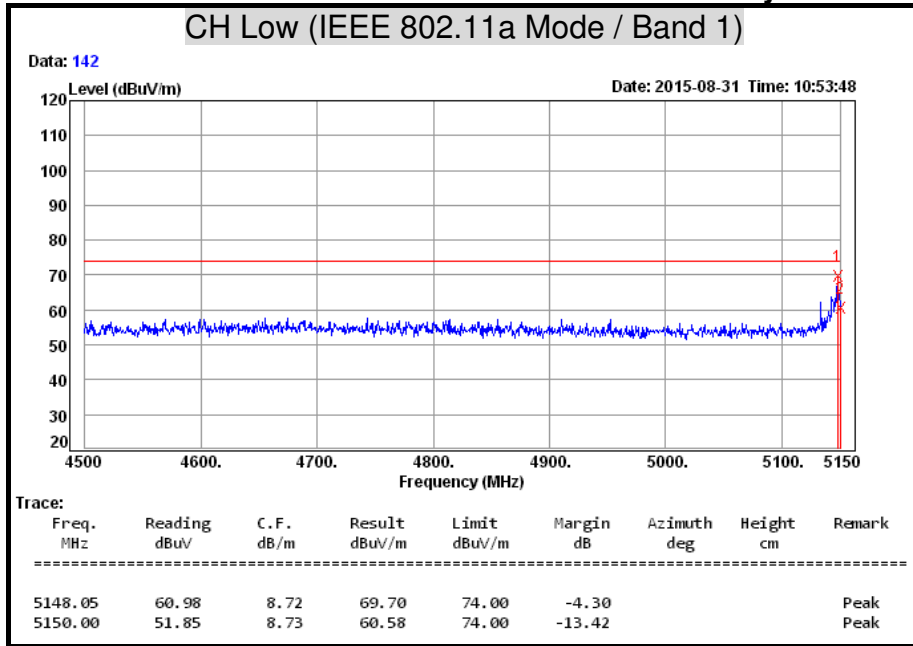


**Detector Mode : Average      Polarity : Horizontal**



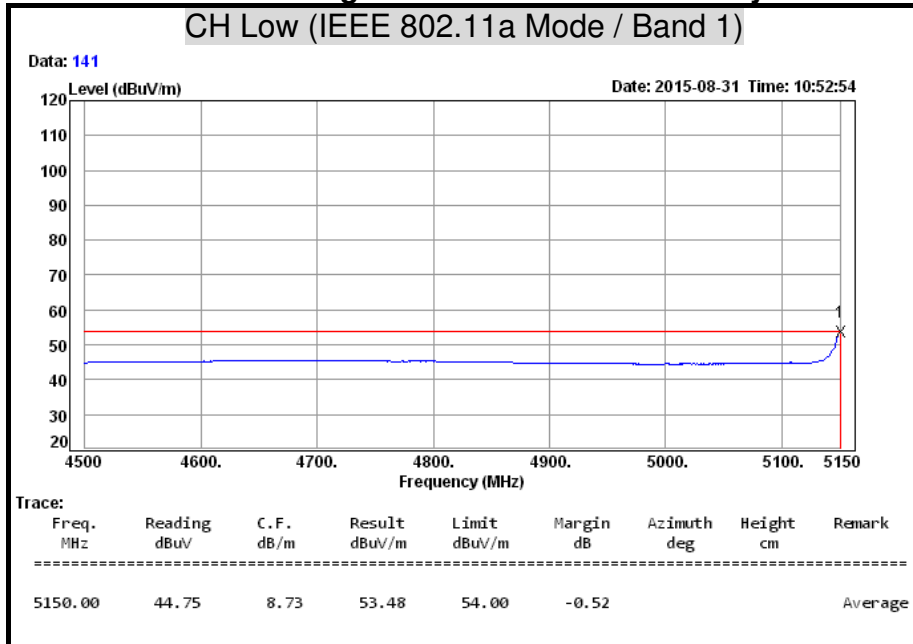
**Detector Mode : Peak**

**Polarity : Vertical**

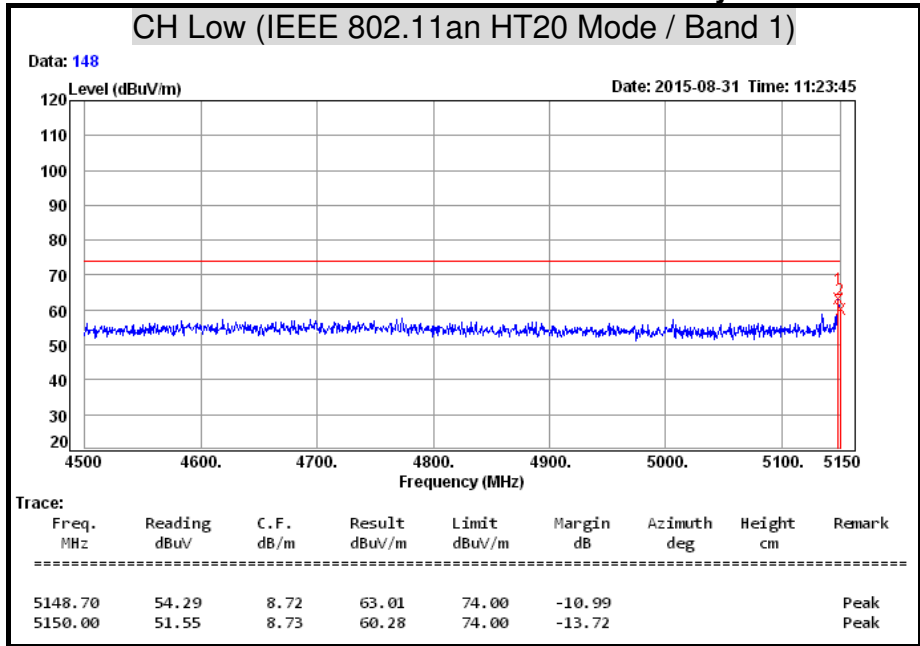


**Detector Mode : Average**

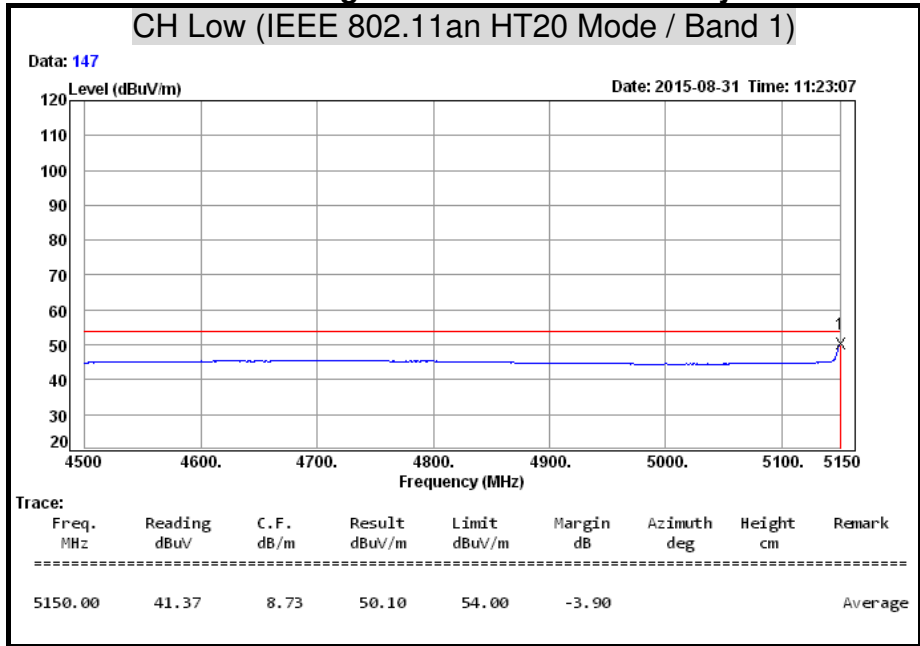
**Polarity : Vertical**



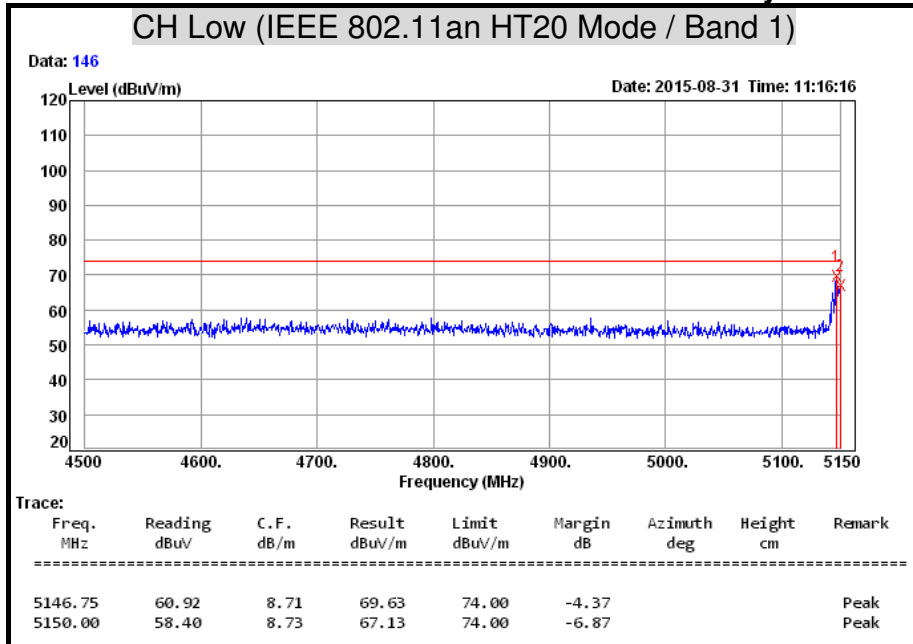
**Detector Mode : Peak Polarity : Horizontal**



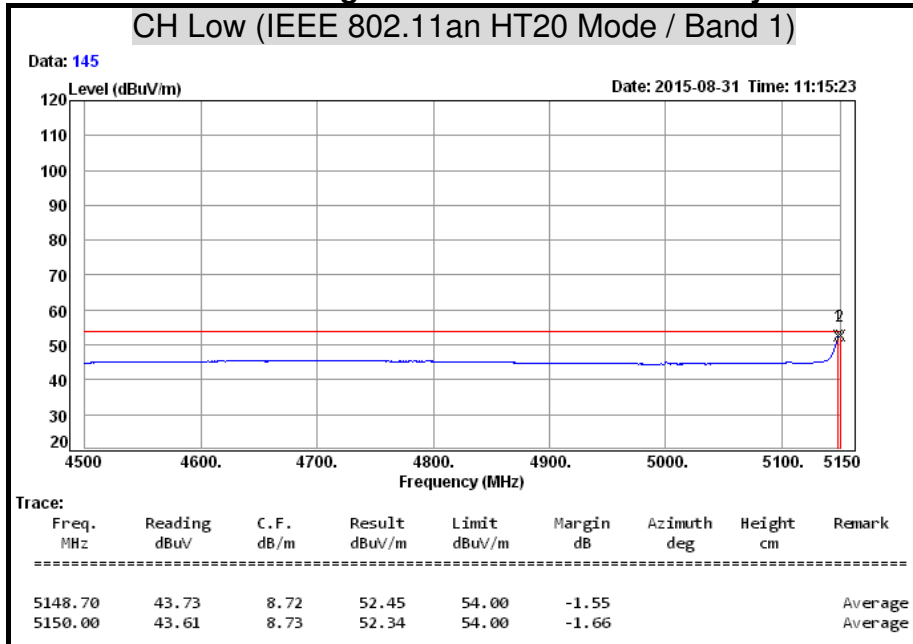
**Detector Mode : Average Polarity : Horizontal**



**Detector Mode : Peak Polarity : Vertical**

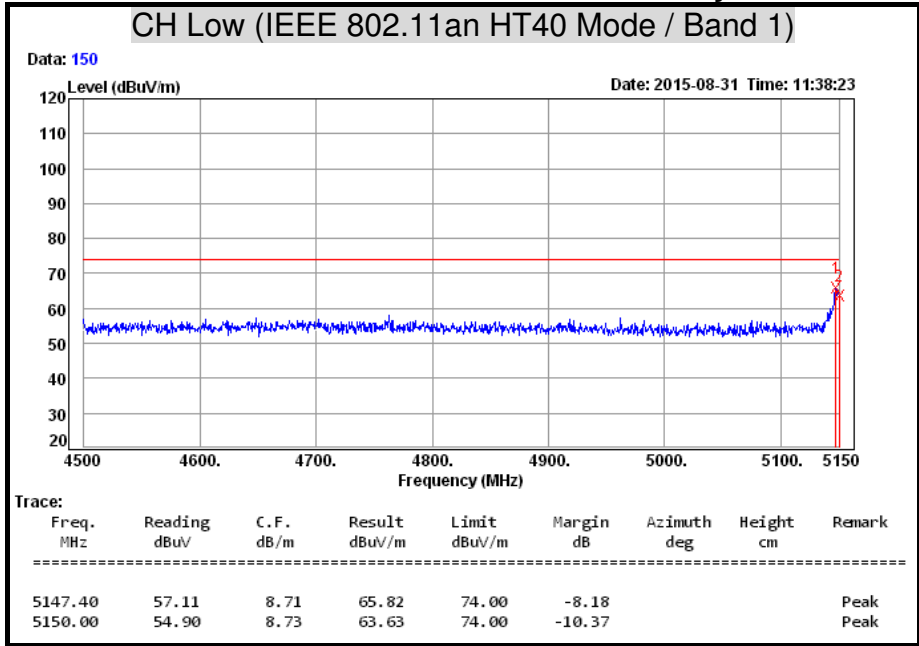


**Detector Mode : Average Polarity : Vertical**



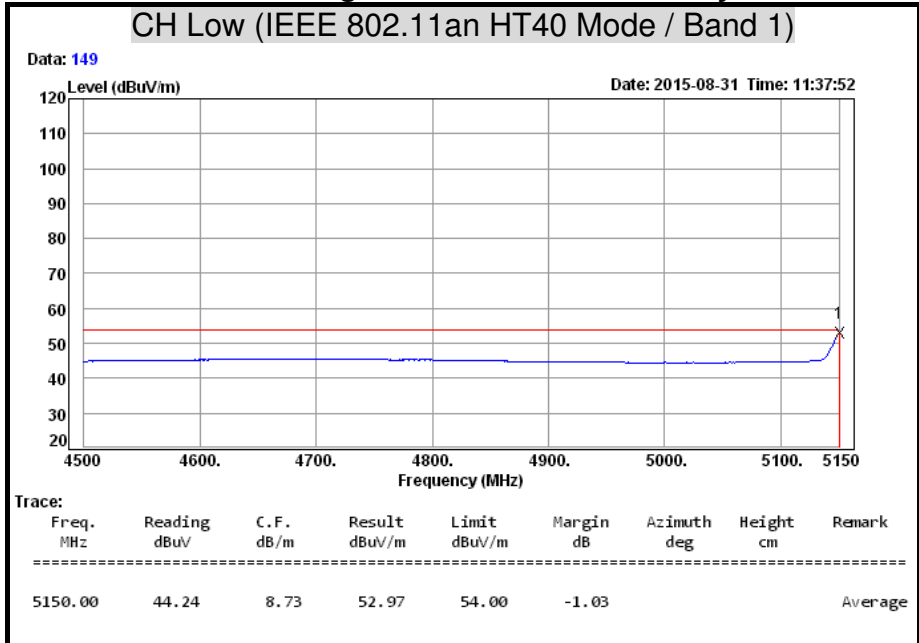
**Detector Mode : Peak**

**Polarity : Horizontal**

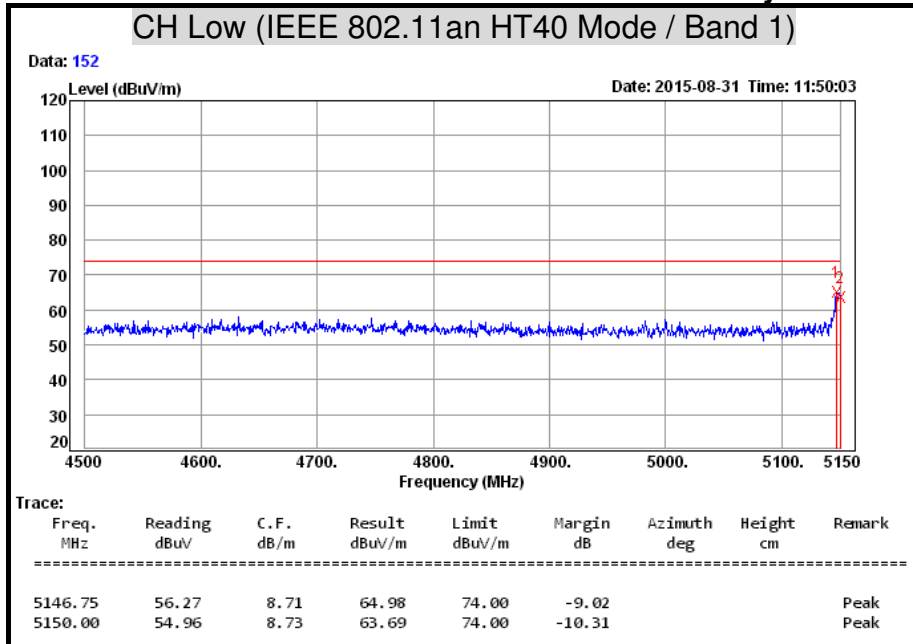


**Detector Mode : Average**

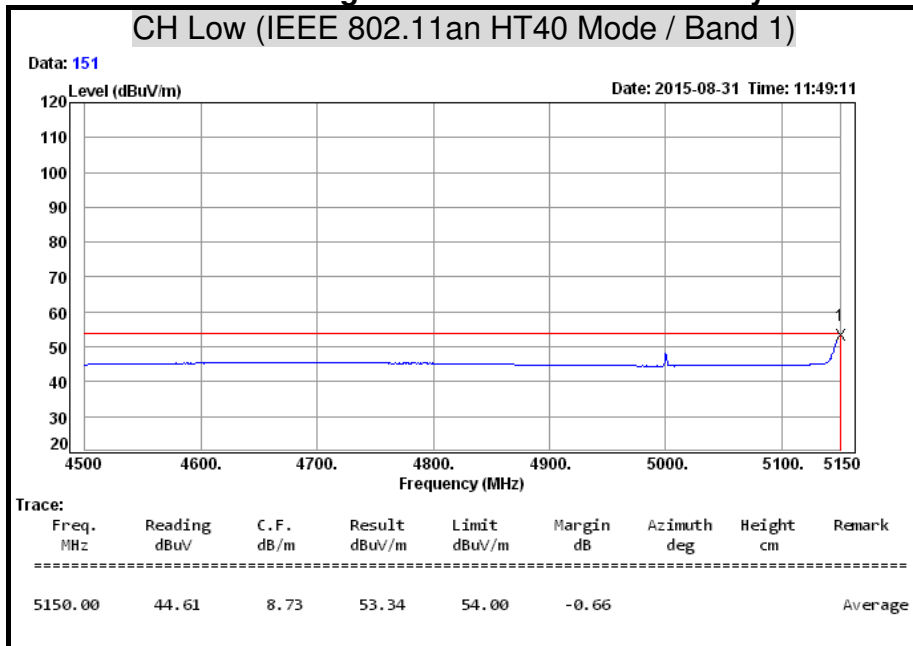
**Polarity : Horizontal**



**Detector Mode : Peak Polarity : Vertical**



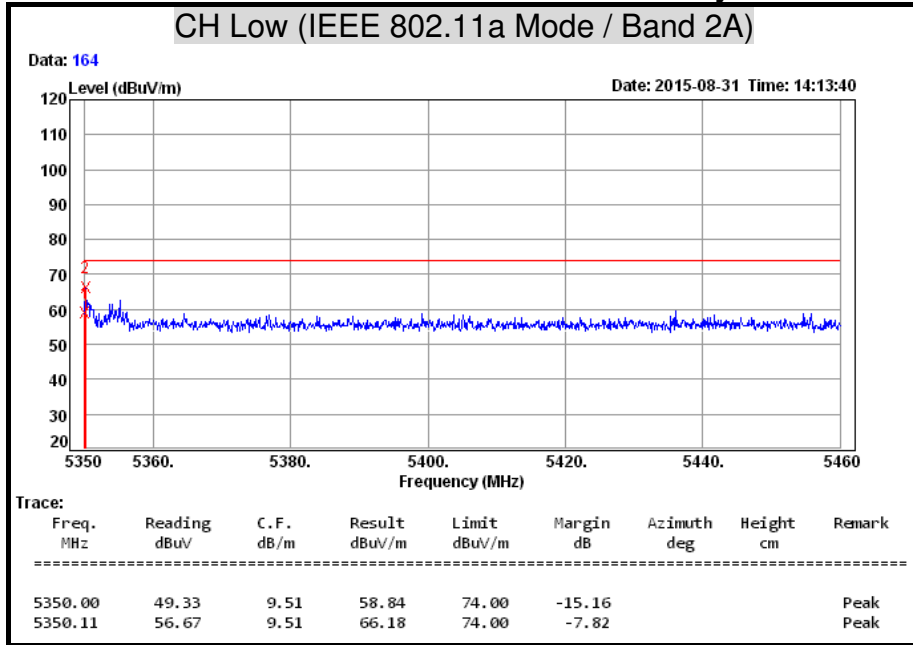
**Detector Mode : Average Polarity : Vertical**





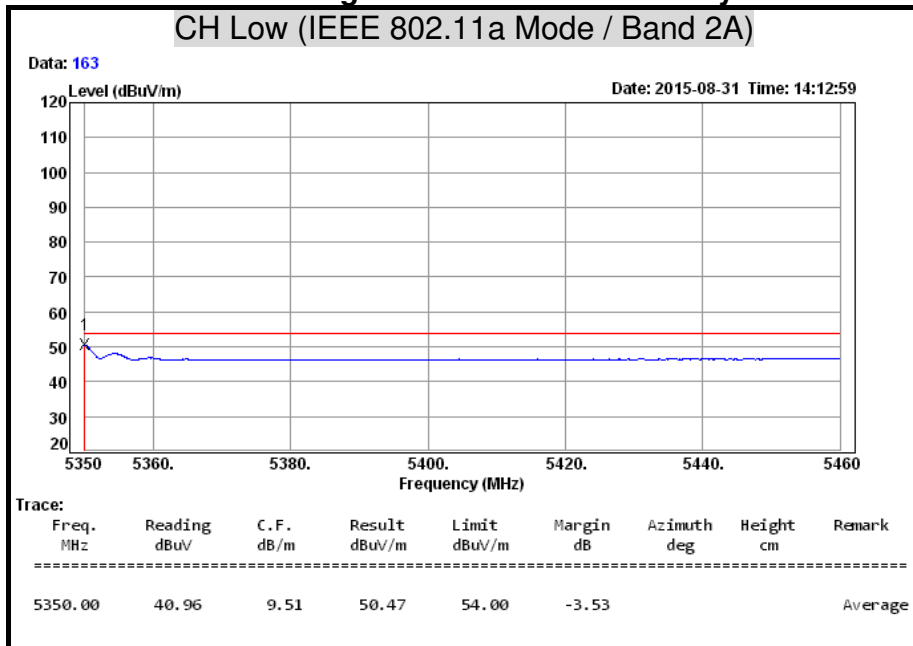
**Detector Mode : Peak**

**Polarity : Horizontal**

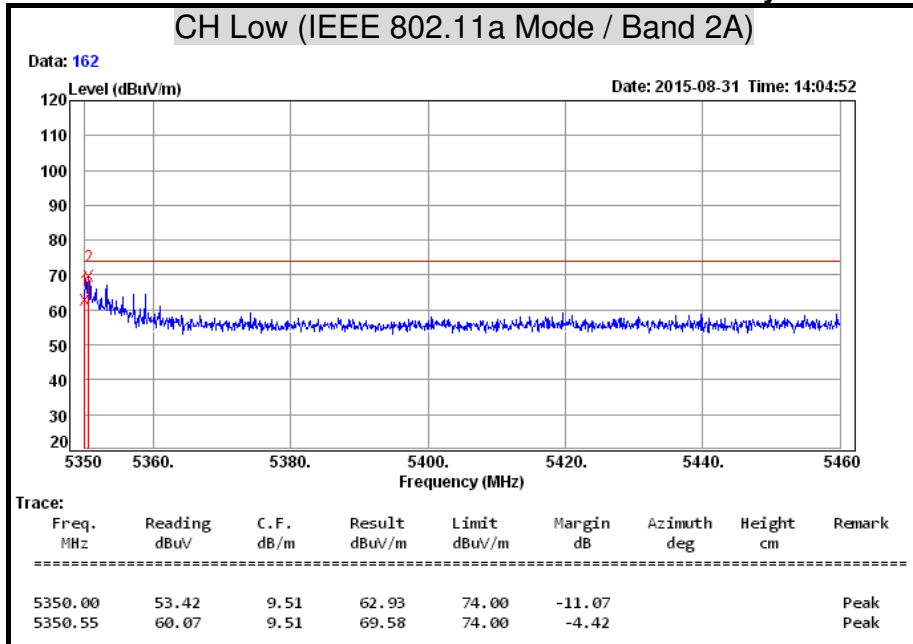


**Detector Mode : Average**

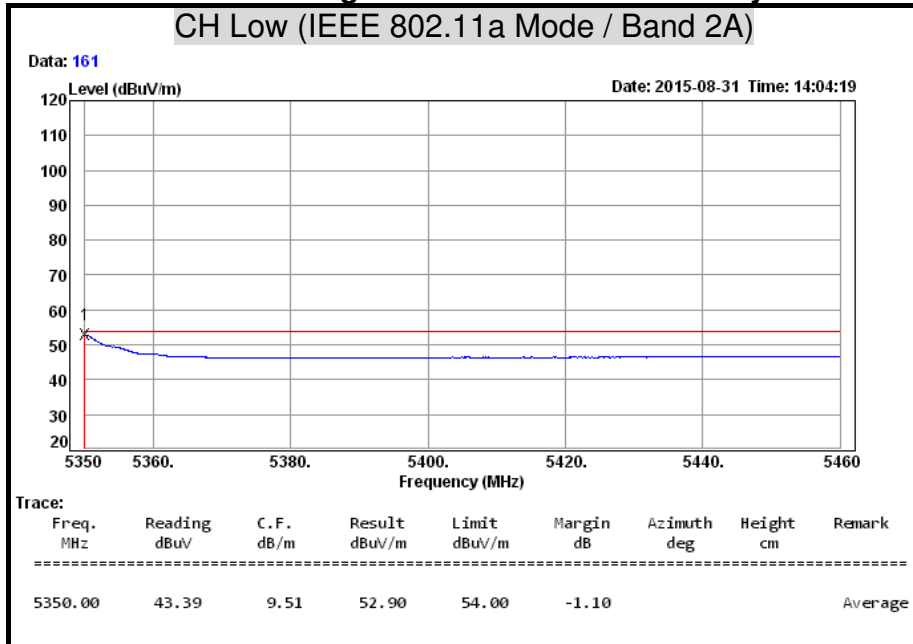
**Polarity : Horizontal**



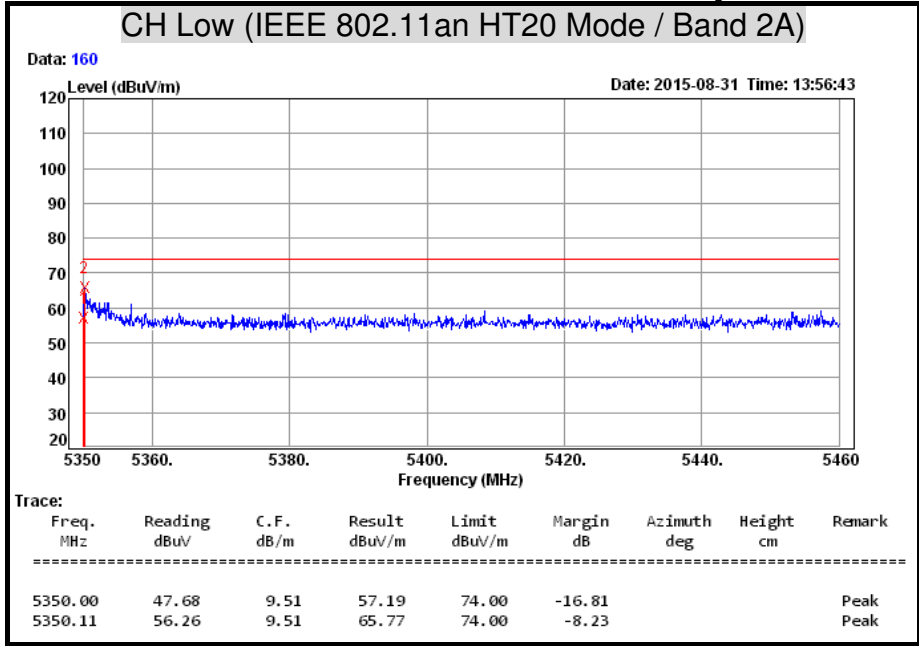
**Detector Mode : Peak Polarity : Vertical**



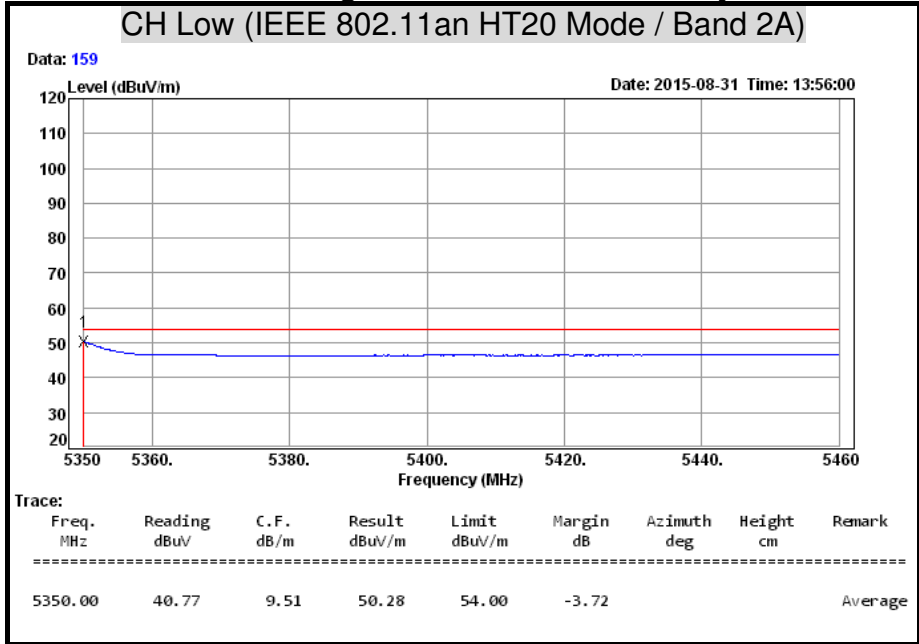
**Detector Mode : Average Polarity : Vertical**



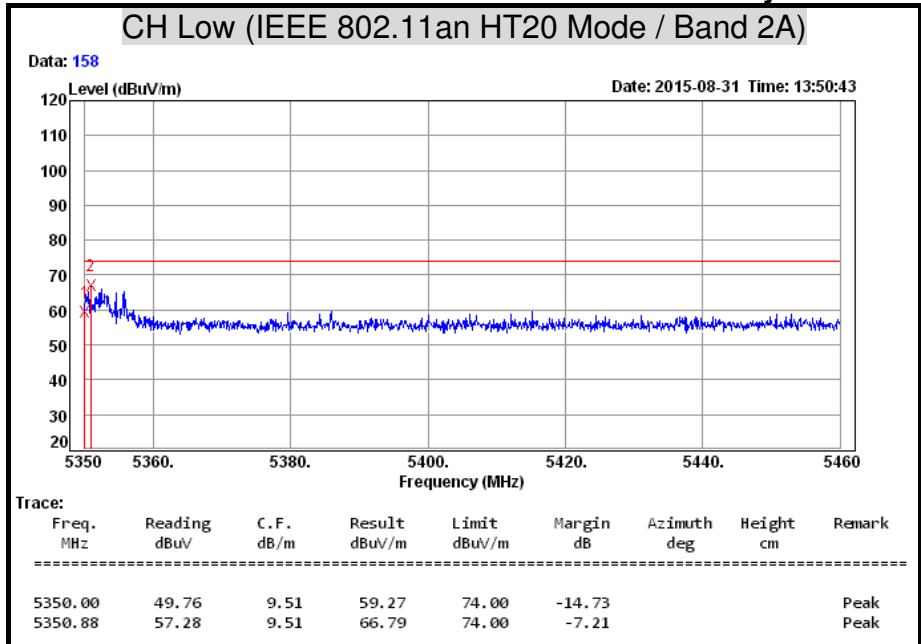
**Detector Mode : Peak Polarity : Horizontal**



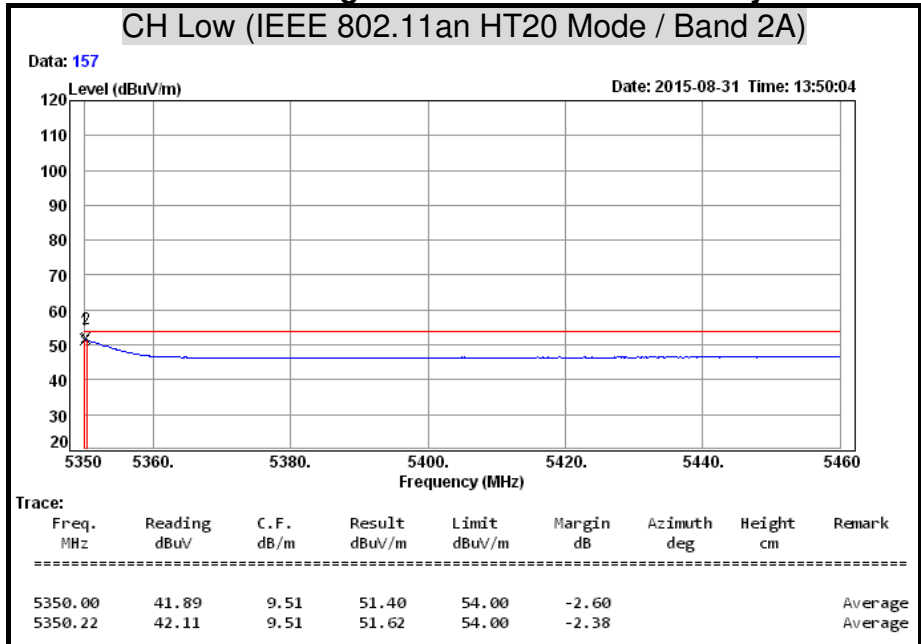
**Detector Mode : Average Polarity : Horizontal**



**Detector Mode : Peak Polarity : Vertical**

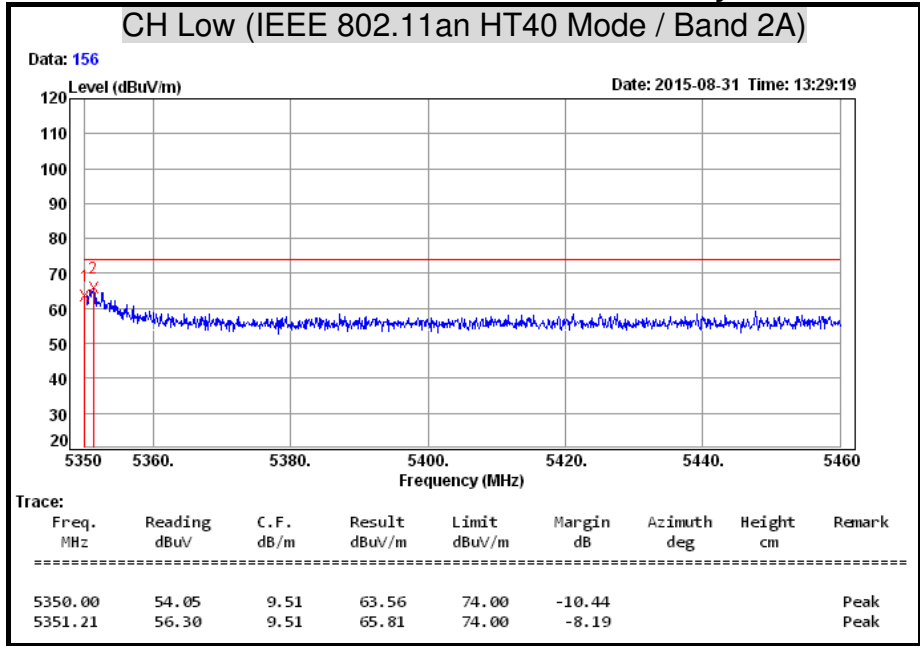


**Detector Mode : Average Polarity : Vertical**



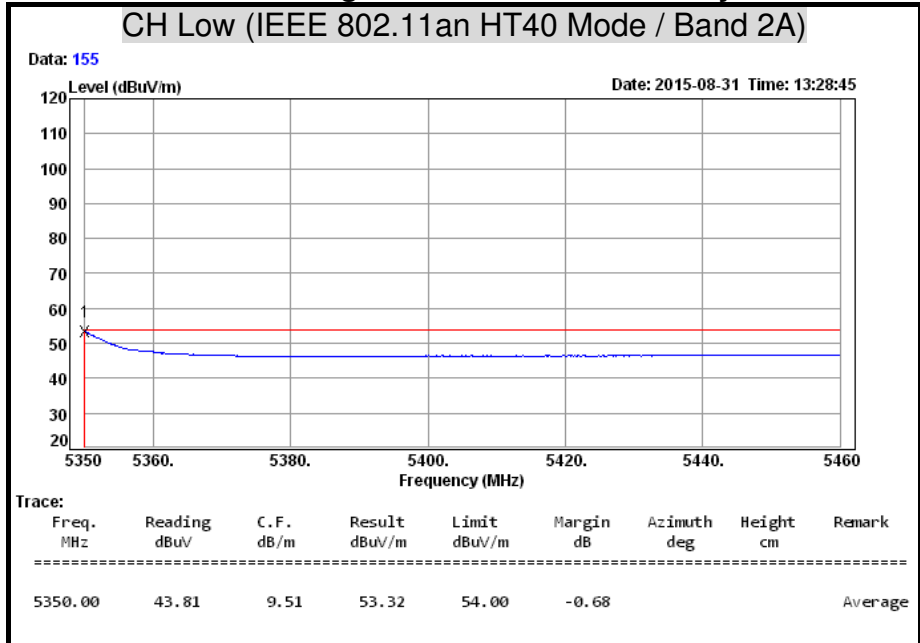
**Detector Mode : Peak**

**Polarity : Horizontal**

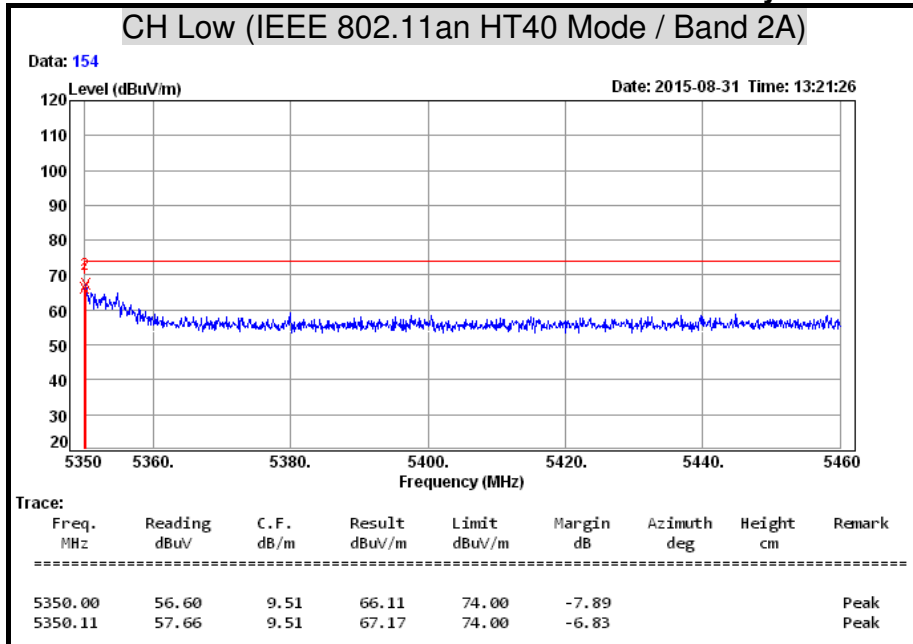


**Detector Mode : Average**

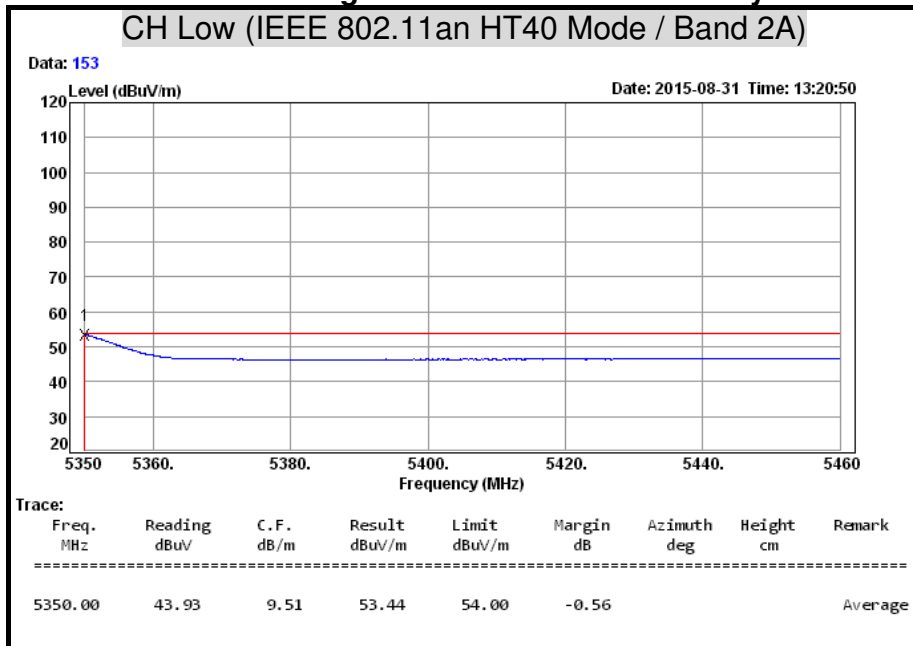
**Polarity : Horizontal**



**Detector Mode : Peak Polarity : Vertical**

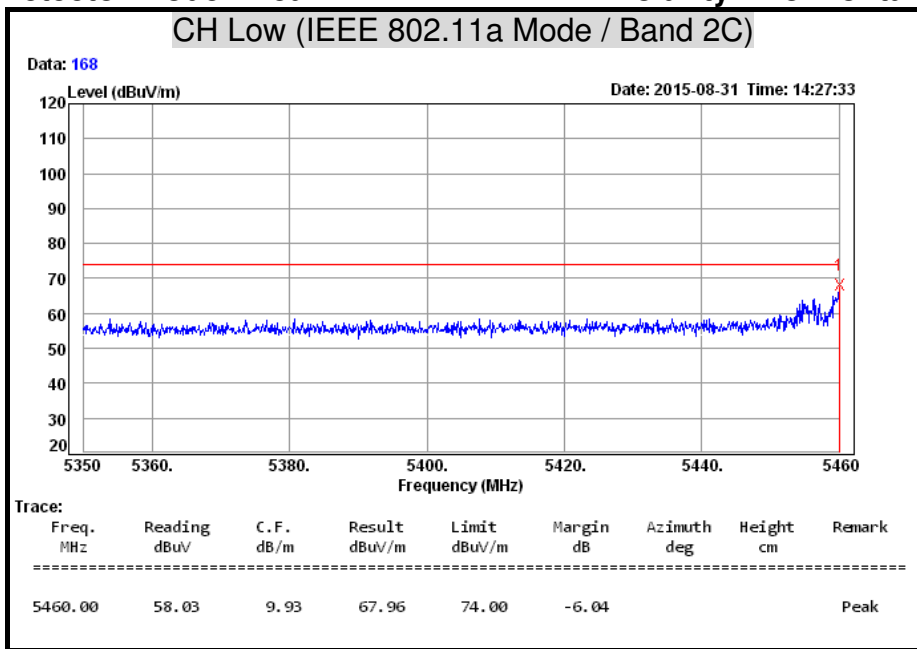


**Detector Mode : Average Polarity : Vertical**



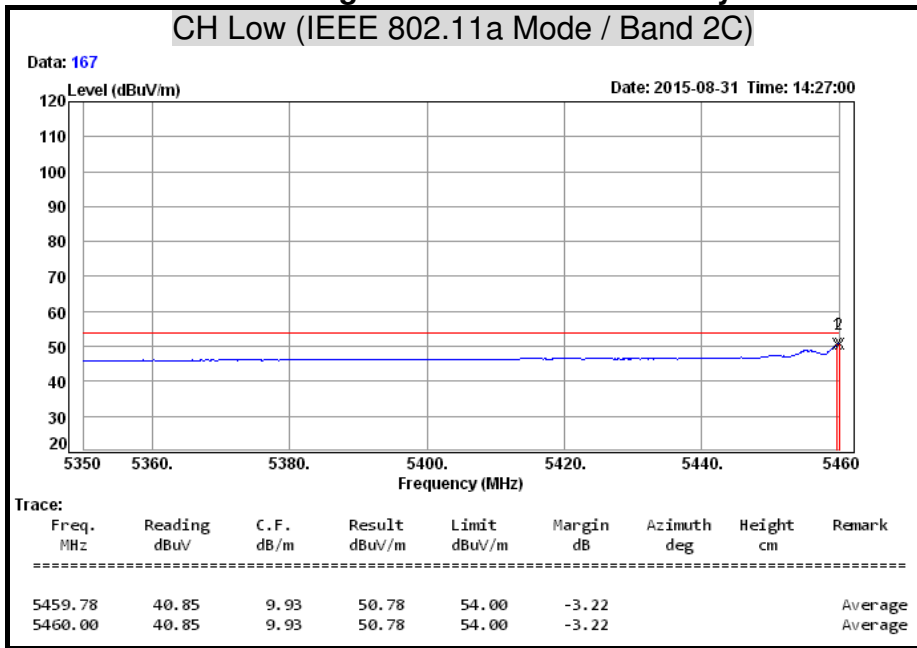
**Detector Mode : Peak**

**Polarity : Horizontal**

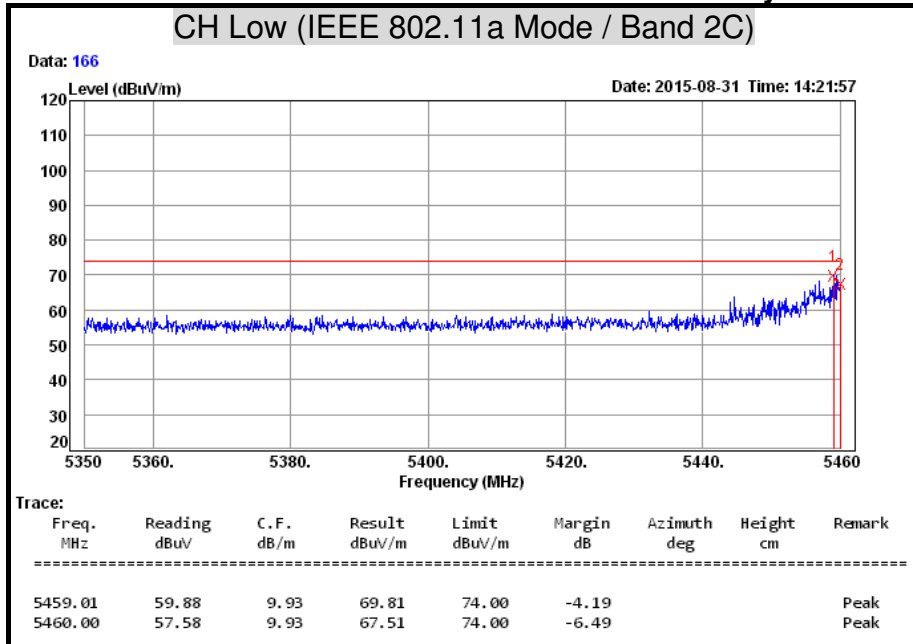


**Detector Mode : Average**

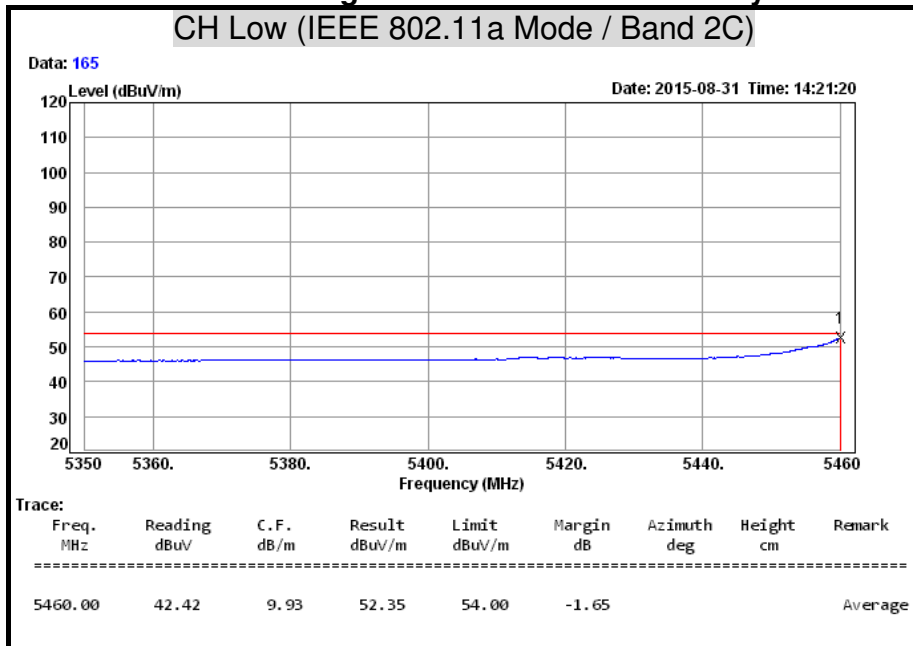
**Polarity : Horizontal**



**Detector Mode : Peak Polarity : Vertical**

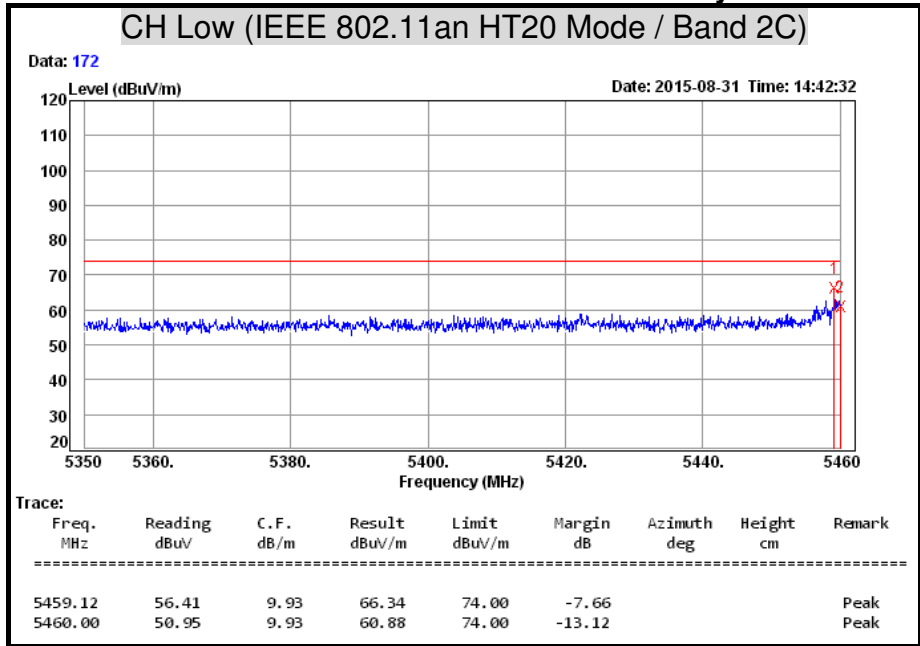


**Detector Mode : Average Polarity : Vertical**

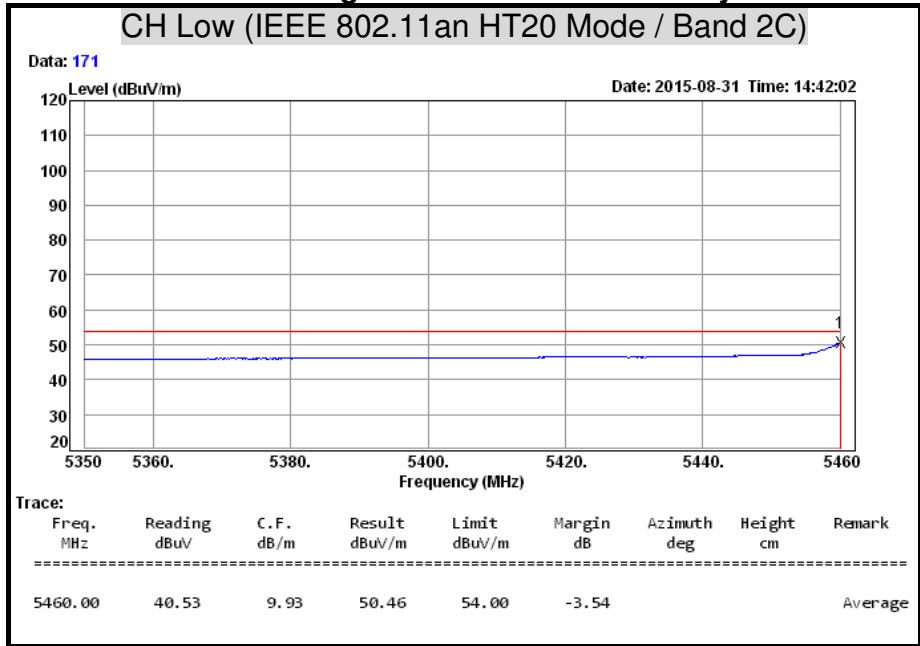




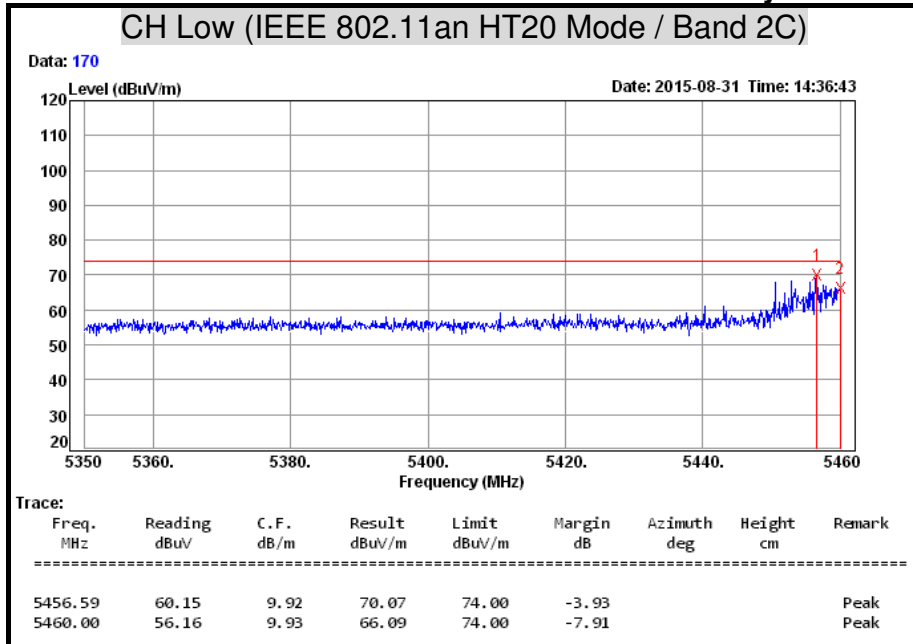
**Detector Mode : Peak Polarity : Horizontal**



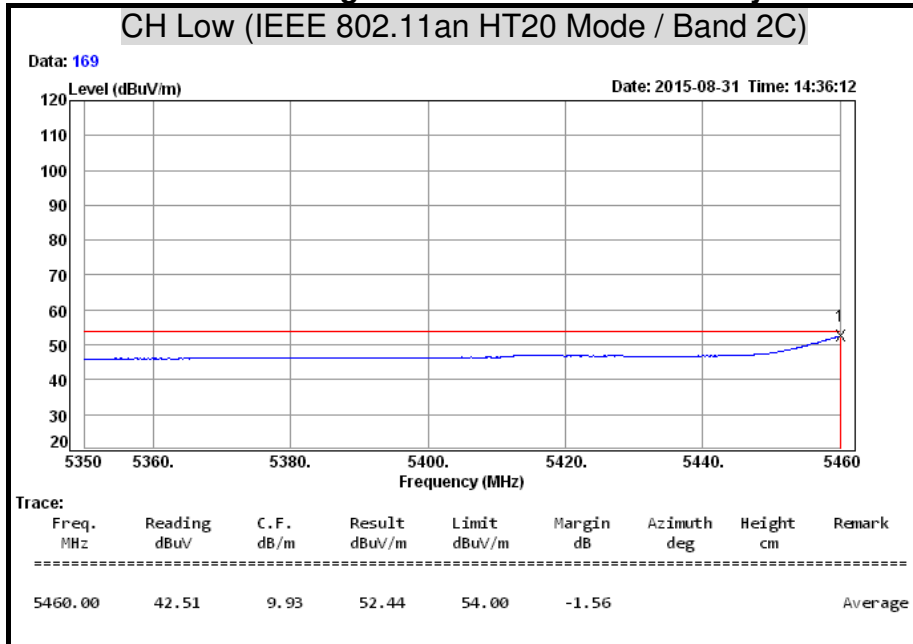
**Detector Mode : Average Polarity : Horizontal**



**Detector Mode : Peak Polarity : Vertical**

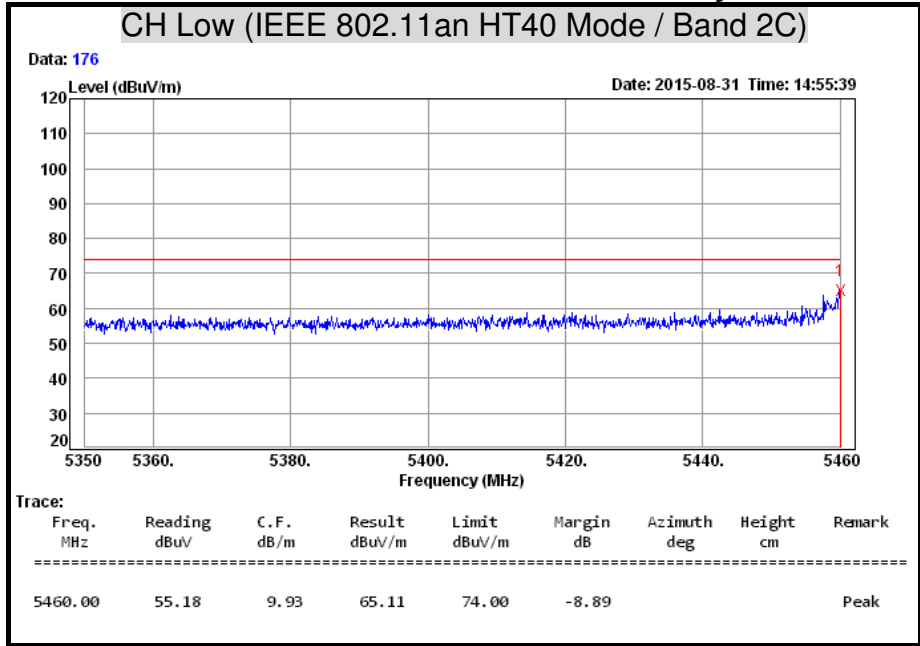


**Detector Mode : Average Polarity : Vertical**



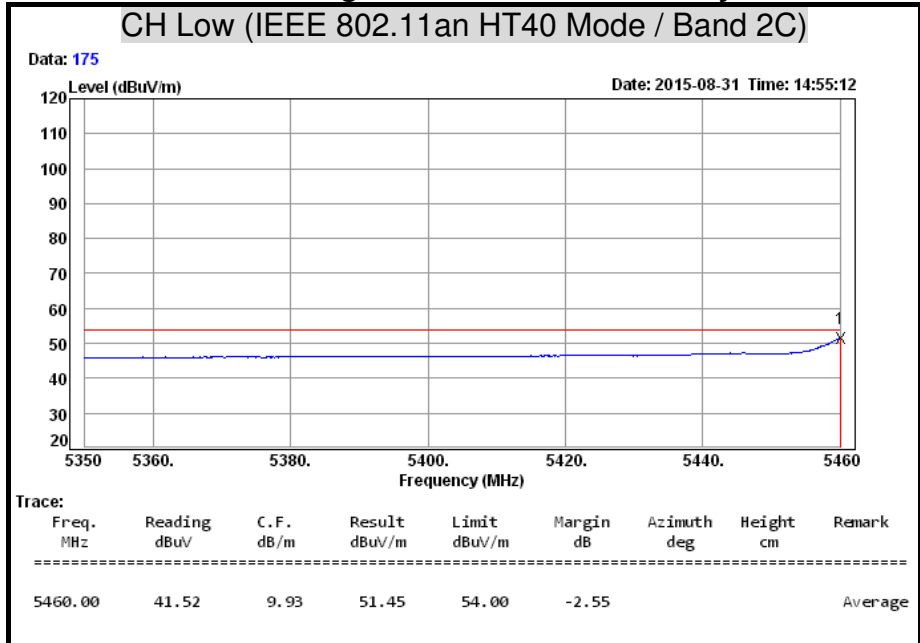
**Detector Mode : Peak**

**Polarity : Horizontal**

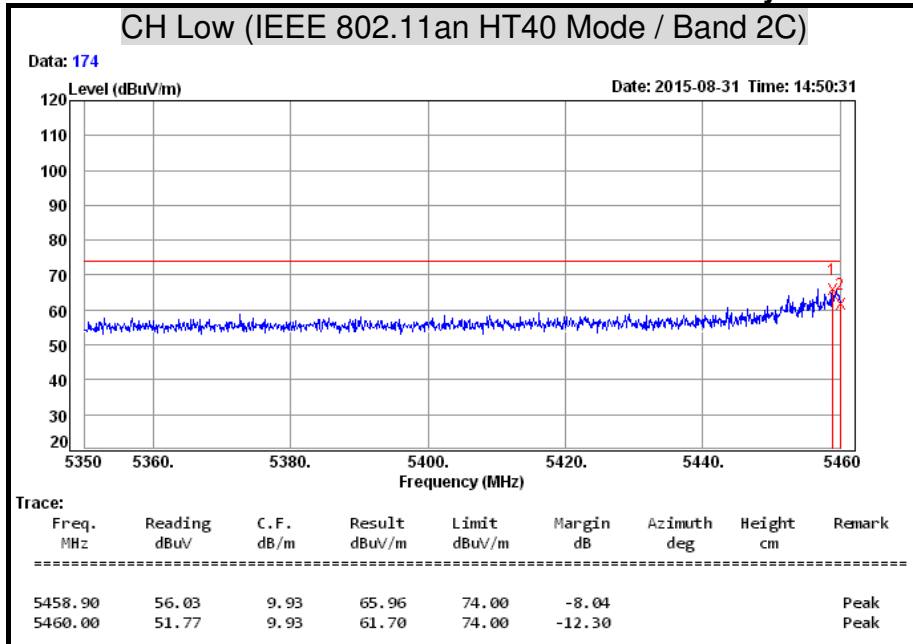


**Detector Mode : Average**

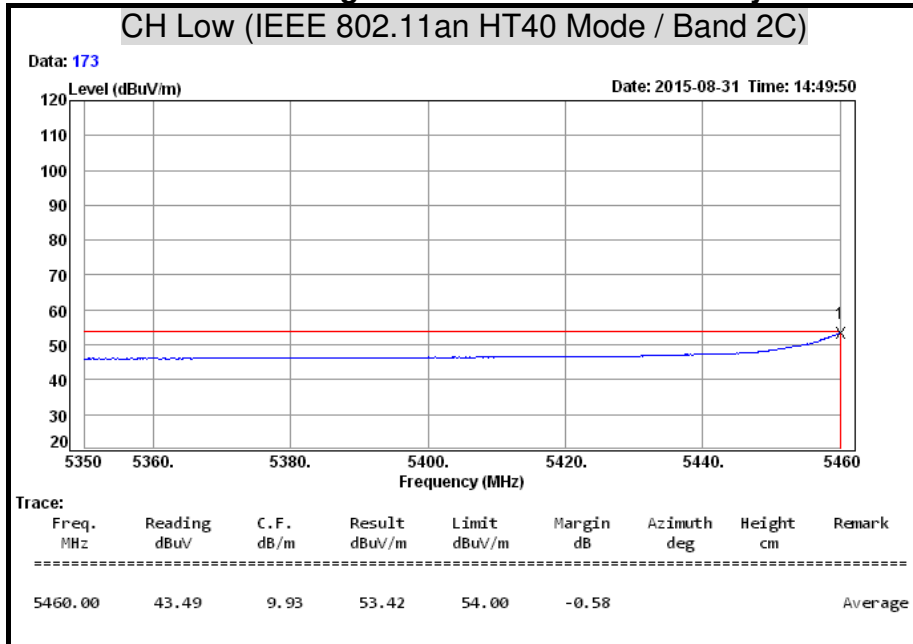
**Polarity : Horizontal**



**Detector Mode : Peak Polarity : Vertical**



**Detector Mode : Average Polarity : Vertical**



## 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  $\mu$ H/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.

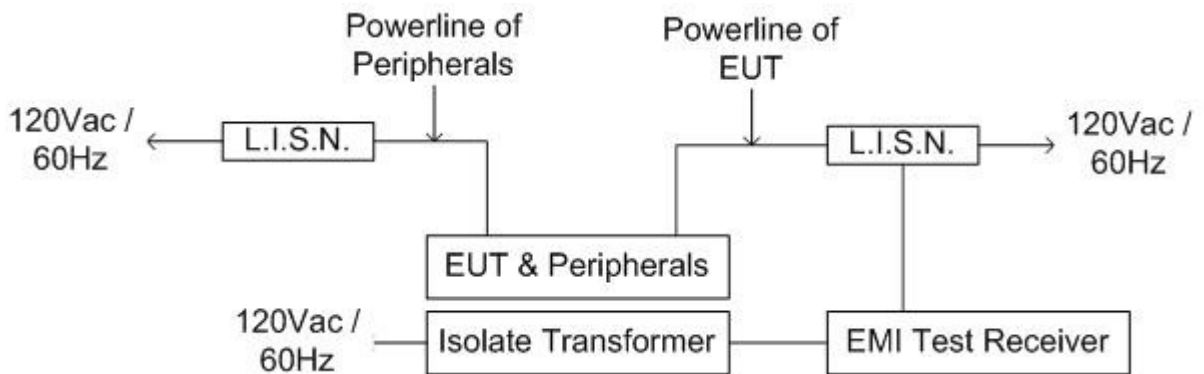
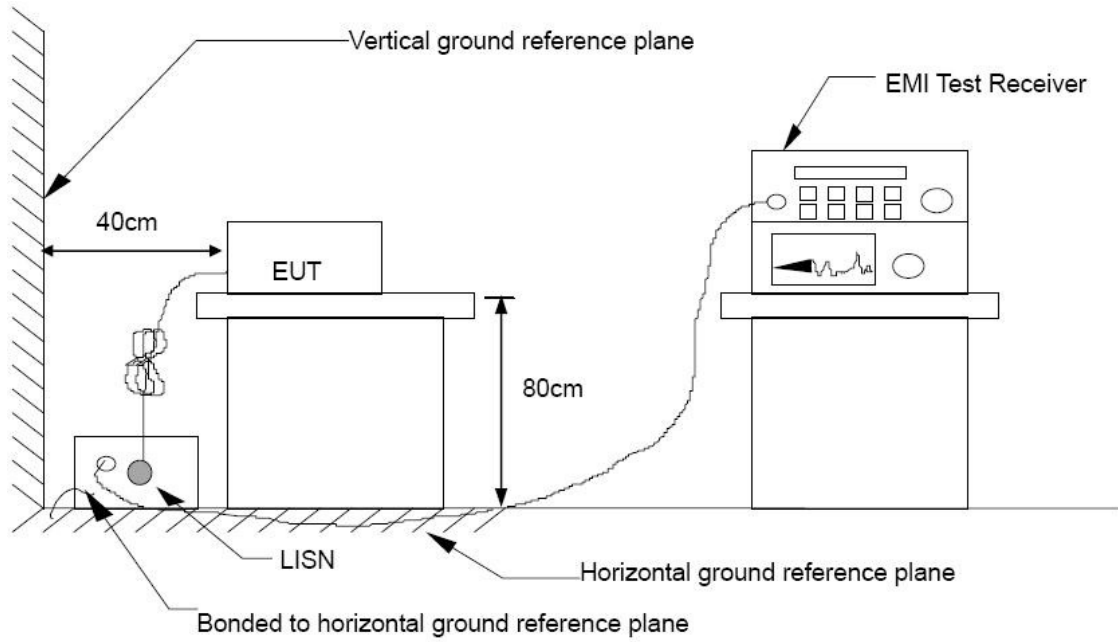
Frequency Range (MHz)	Conducted Limit (dB $\mu$ v)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

### 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.

**TEST SETUP**



**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.

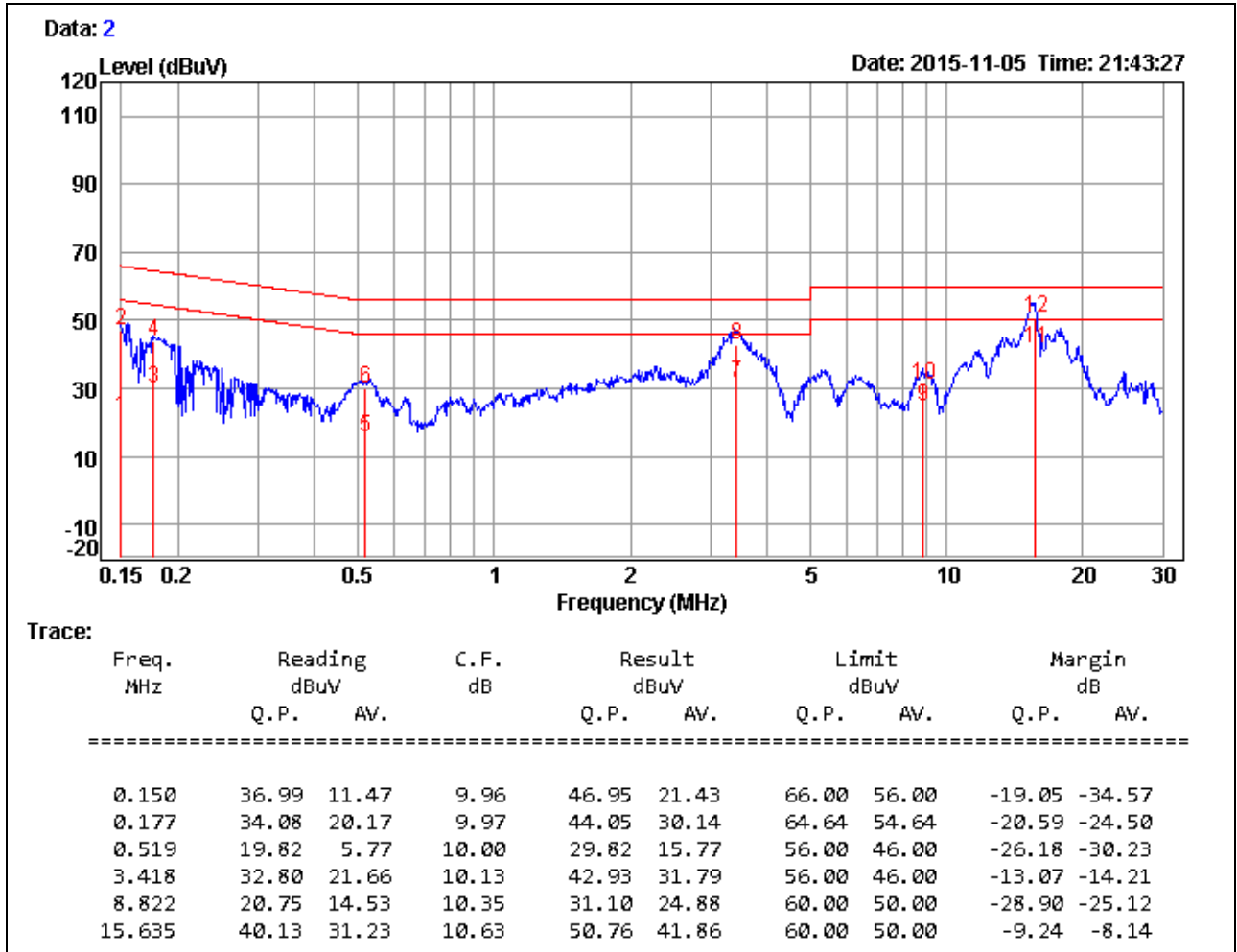
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis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

**TEST RESULTS**

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

**LINE**



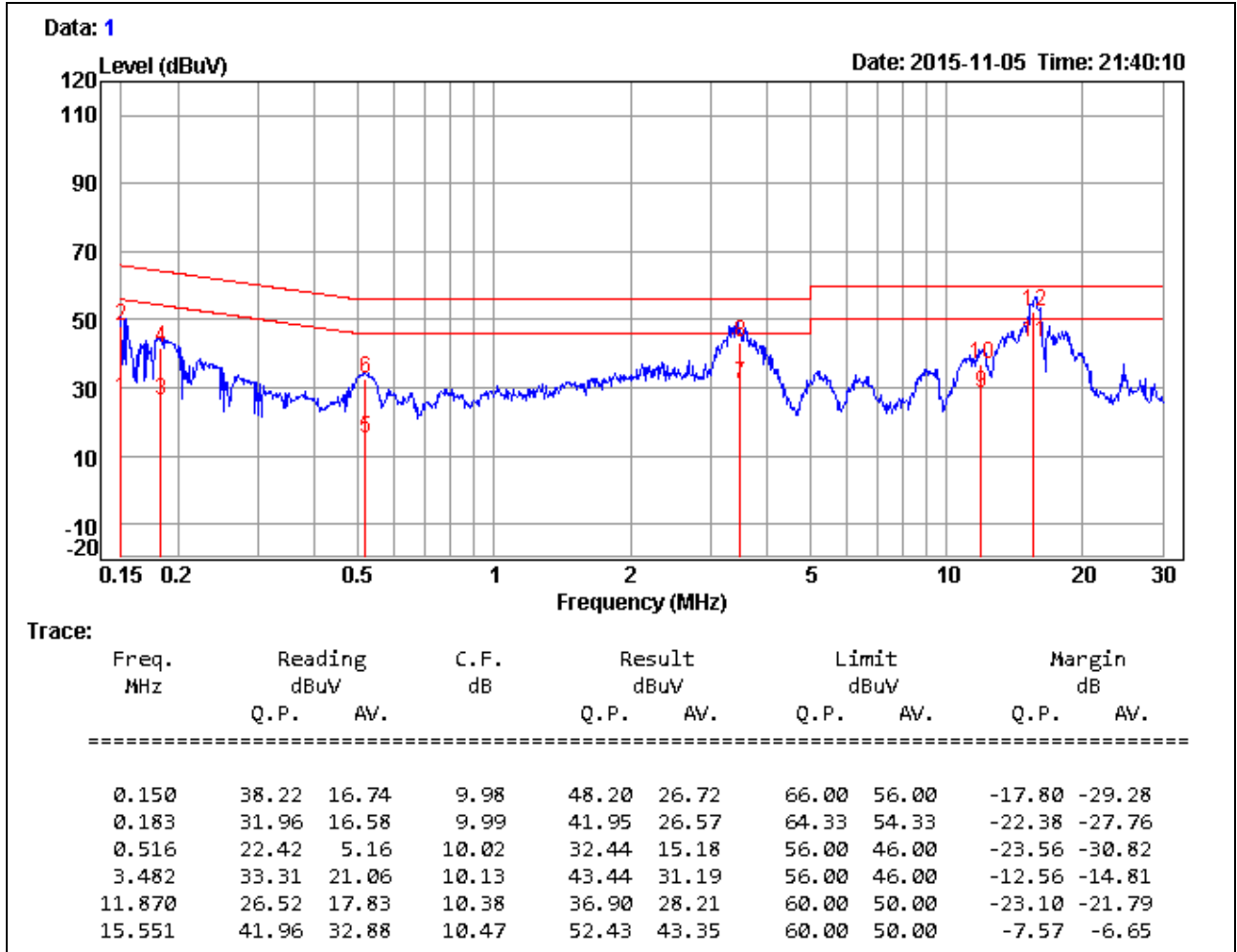
**Remark:**

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



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

NEUTRAL



**Remark:**

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

## 7.6 FREQUENCY STABILITY

### LIMITS

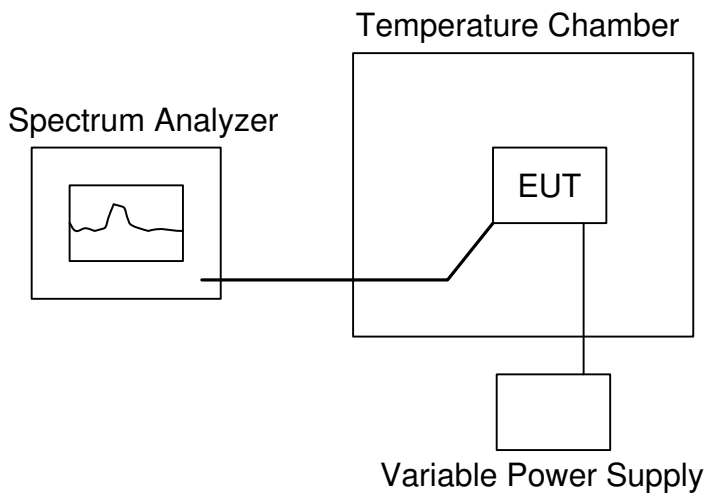
§ 15.407 (g) manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user’s manual.

### 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



**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.

**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

**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

**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