FCC 47 CFR PART 15 SUBPART E AND ANSI C63.10:2009 TEST REPORT

For

Computer

Model : TREK-572 ; TREK-572XXXXXXXXXXXXXXXX
(where "X" may be any alphanumeric character , "-" or blank)

Trade Name : ADVANTECH

Issued for

Advantech Co. Ltd.

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

Issued by

Compliance Certification Services Inc.
Hsinchu Lab.
NO. 989-1 Wen Shan Rd., Shang Shan Village,
Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C
TEL: +886-3-5921698
FAX: +886-3-5921108

http://www.ccsrf.com
E-Mail : service@ccsrf.com

Issued Date: March 11, 2015

Testing Laboratory
0240

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	03/11/2015	Initial Issue	All Page 143	Dola Hsieh

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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	:	TREK-572 ; TREK-572XXXXXXXXXXXXXXX (where "X" may be any alphanumeric character , "-" or blank)
Trade Name	:	ADVANTECH
Tested Date	:	September 11 ~ December 02, 2014

APPLICABLE STANDARD	
Standard	**Test Result**
FCC Part 15 Subpart E AND ANSI C63.10:2009	PASS

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

Approved by:

Sb. Lu
Sr. Engineer

Reviewed by:

Gundam Lin
Sr. Engineer

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2. EUT DESCRIPTION

Product Name	Computer
Model Number	TREK-572 ; TREK-572XXXXXXXXXXXXXXX (where "X" may be any alphanumeric character , "-" or blank)
Identify Number	T140911L12-A
Received Date	September 11, 2014
Frequency Range	UNII Band 1:
	IEEE 802.11a, 802.11an HT20 : 5180MHz ~ 5240MHz
	IEEE 802.11an HT40 : 5190MHz ~ 5230MHz
	UNII Band 2A:
	IEEE 802.11a, 802.11an HT20 : 5260MHz ~ 5320MHz
	IEEE 802.11an HT40 : 5270MHz ~ 5310MHz
	UNII Band 2C:
	IEEE 802.11a, 802.11an HT20 : 5500MHz ~ 5700MHz
	IEEE 802.11an HT40 : 5510MHz ~ 5670MHz
	UNII Band 3:
	IEEE 802.11a, 802.11an HT20 : 5745MHz ~ 5825MHz
	IEEE 802.11an HT40 : 5755MHz ~ 5795MHz
Transmit Power	UNII Band 1:
	IEEE 802.11a : 21.10dBm (0.1288W)
	IEEE 802.11an HT20 : 21.03dBm (0.1268W)
	IEEE 802.11an HT40 : 20.64dBm (0.1159W)
	UNII Band 2A:
	IEEE 802.11a : 20.82dBm (0.1208W)
	IEEE 802.11an HT20 : 20.86dBm (0.1219W)
	IEEE 802.11an HT40 : 20.06dBm (0.1014W)
	UNII Band 2C:
	IEEE 802.11a : 20.83dBm (0.1211W)
	IEEE 802.11an HT20 : 20.77dBm (0.1194W)
	IEEE 802.11an HT40 : 20.42dBm (0.1102W)
	UNII Band 3:
	IEEE 802.11a : 20.34dBm (0.1081W)
	IEEE 802.11an HT20 : 20.35dBm (0.1084W)
	IEEE 802.11an HT40 : 20.50dBm (0.1122W)

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Channel Spacing	IEEE 802.11a, 802.11an HT20 : 20MHz IEEE 802.11an HT40 : 40MHz
Channel Number	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
Transmit Data Rate	IEEE 802.11a : up to 54 Mbps IEEE 802.11an (VHT20,800ns GI) : up to 65.00 Mbps IEEE 802.11an (VHT20,400ns GI) : up to 72.20 Mbps IEEE 802.11an (VHT40,800ns GI) : up to 135.00 Mbps IEEE 802.11an (VHT40,400ns GI) : up to 150.00 Mbps
Type of Modulation	IEEE 802.11a : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11an HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Type	PIFA Antenna , Antenna Gain : 2.75 dBi
Power Rating	9-32Vdc
Test Voltage	120Vac, 60Hz
DC Power Cable Type	Non-shielded cable, 1.5m × 1 (Detachable)
I/O Port	EUT : RJ-45 Port × 1, USB Port × 1, Power Port × 1, VGA Port × 1, Signal Port × 1, Audio Port × 2 Panel : Signal Port × 1, USB Port × 1
Signal Cable	Shielded signal cable, 2m × 1 (Detachable), with two ferrite core

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The difference of the series model

Model Number	Difference
TREK-572	1. For marketing purpose only. 2. where "X" may be any alphanumeric character , "-" or blank
TREK-572XXXXXXXXXXXXXXXX	

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 TREK-572 was considered the main model for testing.
4. This submittal(s) (test report) is intended for FCC ID: M82-TREK572LTE 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 is an 802.11n transceiver in Computer form factor.

For IEEE 802.11a, 802.11an HT20/HT40 mode : 1TX / 1RX.

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

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

Final Test Mode		
Emission	Radiated Emission	TX Mode
	Conducted Emission	N/A

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

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Conducted / Radiated Emission Test (Above 1 GHz)

IEEE 802.11a, 802.11an HT20 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

UNII Band 1:

Channel	Frequency (MHz)
Low	5180
Middle	5220
High	5240

UNII Band 2A:

Channel	Frequency (MHz)
Low	5260
Middle	5280
High	5320

UNII Band 2C:

Channel	Frequency (MHz)
Low	5500
Middle	5580
High	5700

UNII Band 3:

Channel	Frequency (MHz)
Low	5745
Middle	5785
High	5825

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

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

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IEEE 802.11an HT40 mode

The EUT had been tested under operating condition.

There are two or 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
Moddle	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(X axis), lie-down position(X, Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.*

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4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2009 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 Wen Shan Rd., Shang Shan Village,
Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C

The sites are constructed in conformance with the requirements of ANSI C63.10:2009 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2 ACCREDITATIONS

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

Taiwan	TAF

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

Canada	INDUSTRY CANADA
Japan	VCCI
Taiwan	BSMI
USA	FCC MRA

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

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5.3 MEASUREMENT UNCERTAINTY

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

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

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

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

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

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6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.
1	Notebook PC	HP	ProBook 4421s	CNF03242PJ
2	DC Power Supply	Rohde & Schwarz	NGSM 32/10	100232

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**
     IEEE 802.11a Channel Low (5180MHz) Power set 20
     IEEE 802.11a Channel Mid (5220MHz) Power set 25
     IEEE 802.11a Channel High (5240MHz) Power set 25
     IEEE 802.11an HT20 Channel Low (5180MHz) Power set 20
     IEEE 802.11an HT20 Channel Mid (5220MHz) Power set 25
     IEEE 802.11an HT20 Channel High (5240MHz) Power set 25
     IEEE 802.11an HT40 Channel Low (5190MHz) Power set 15
     IEEE 802.11an HT40 Channel High (5230MHz) Power set 24

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IEEE 802.11a Channel Low (5260MHz) Power set 25
IEEE 802.11a Channel Mid (5280MHz) Power set 25
IEEE 802.11a Channel High (5320MHz) Power set 20
IEEE 802.11an HT20 Channel Low (5260MHz) Power set 25
IEEE 802.11an HT20 Channel Mid (5280MHz) Power set 25
IEEE 802.11an HT20 Channel High (5320MHz) Power set 19.5
IEEE 802.11an HT40 Channel Low (5270MHz) Power set 24
IEEE 802.11an HT40 Channel High (5310MHz) Power set 15.5

IEEE 802.11a Channel Low (5500MHz) Power set 23
IEEE 802.11a Channel Mid (5580MHz) Power set 25
IEEE 802.11a Channel High (5700MHz) Power set 25
IEEE 802.11an HT20 Channel Low (5500MHz) Power set 22.5
IEEE 802.11an HT20 Channel Mid (5580MHz) Power set 25
IEEE 802.11an HT20 Channel High (5700MHz) Power set 25
IEEE 802.11an HT40 Channel Low (5510MHz) Power set 18.5
IEEE 802.11an HT40 Channel Mid (5550MHz) Power set 25
IEEE 802.11an HT40 Channel High (5670MHz) Chain0/Chain1 Power set 25

IEEE 802.11a Channel Low (5745MHz) Power set 25
IEEE 802.11a Channel Mid (5785MHz) Power set 25
IEEE 802.11a Channel High (5825MHz) Power set 25
IEEE 802.11an HT20 Channel Low (5745MHz) Power set 25
IEEE 802.11an HT20 Channel Mid (5785MHz) Power set 25
IEEE 802.11an HT20 Channel High (5825MHz) Power set 25
IEEE 802.11an HT40 Channel Low (5755MHz) Power set 25
IEEE 802.11an HT40 Channel High (5795MHz) Power set 25

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

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7. FCC PART 15.407 REQUIREMENTS

7.1 26dB BANDWIDTH

LIMITS

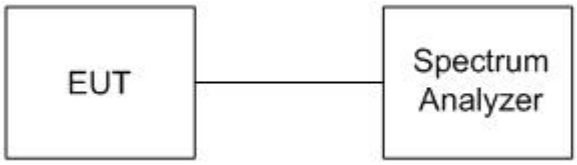
§ 15.303 (c), For purposes of this subpart, the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier.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

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2015

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

TEST SETUP



TEST PROCEDURE

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

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TEST RESULTS

IEEE 802.11a Mode

U-NII	Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)
Band 2A	Low	5260	47.47
	Middle	5280	46.32
	High	5320	38.07
Band 2C	Low	5500	43.67
	Middle	5580	45.94
	High	5700	49.89

IEEE 802.11an HT20 Mode

U-NII	Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)
Band 2A	Low	5260	47.81
	Middle	5280	50.05
	High	5320	50.07
Band 2C	Low	5500	44.35
	Middle	5580	48.93
	High	5700	55.01

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IEEE 802.11an HT40 Mode

U-NII	Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)
Band 2A	Low	5270	91.21
	High	5310	43.51
Band 2C	Low	5510	66.07
	Middle	5550	94.19
	High	5670	93.30

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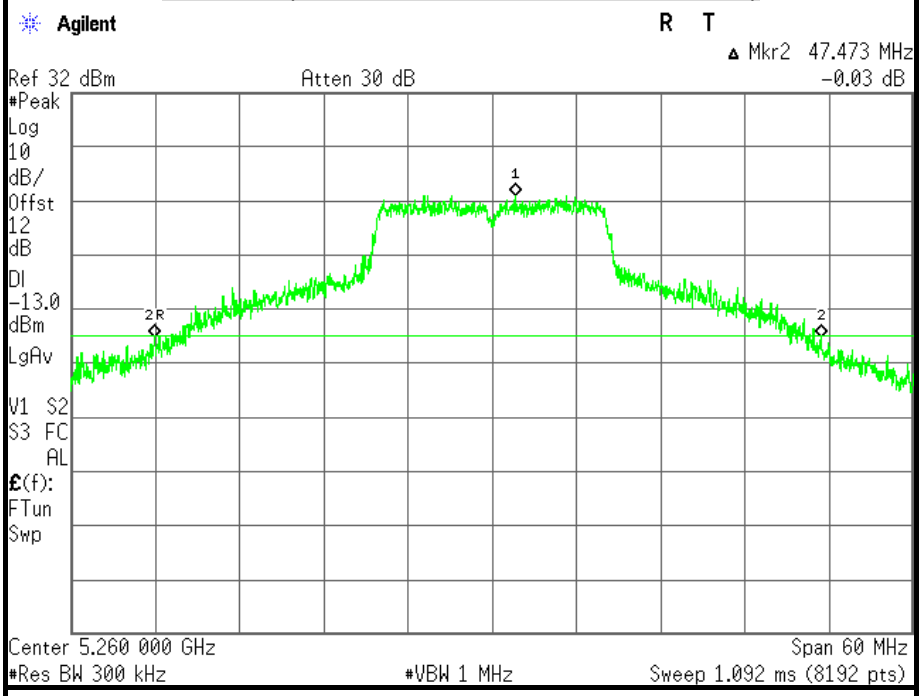
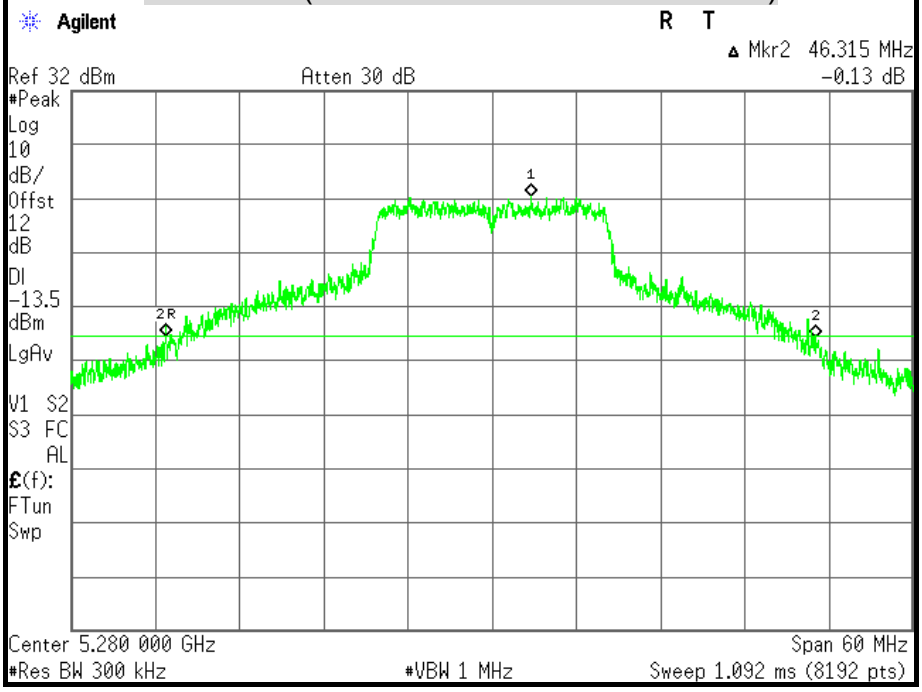
26dB BANDWIDTH

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



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



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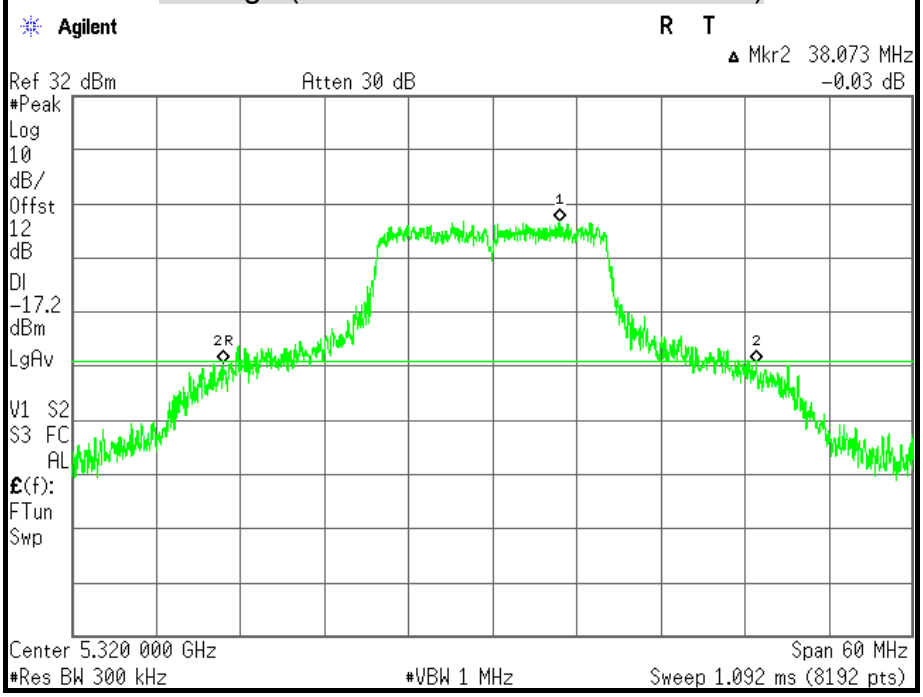
CH High (IEEE 802.11a Mode / Band 2A)



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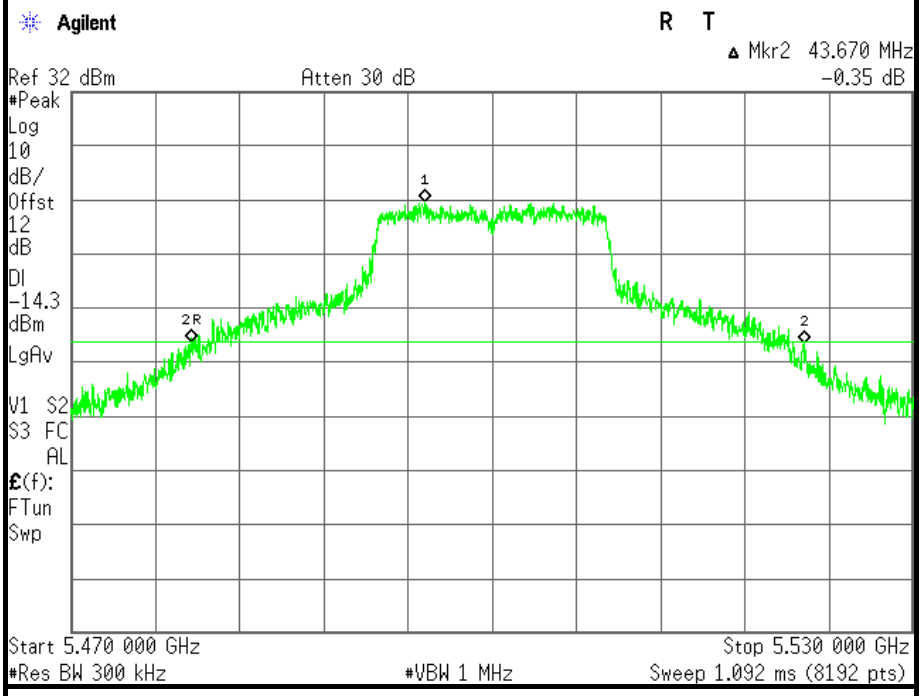
CH Low (IEEE 802.11a Mode / Band 2C)



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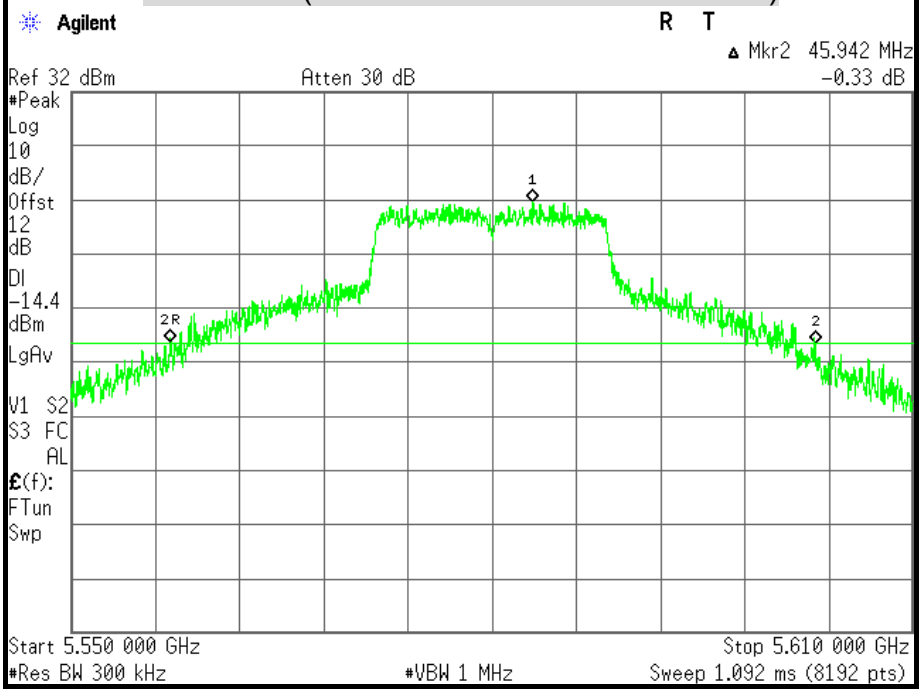

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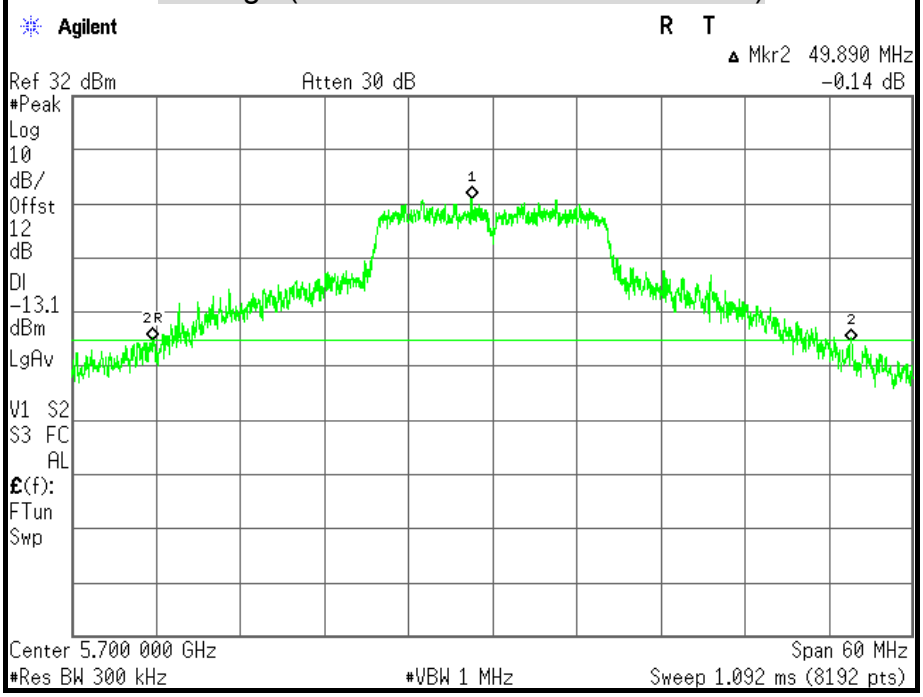
CH High (IEEE 802.11a Mode / Band 2C)



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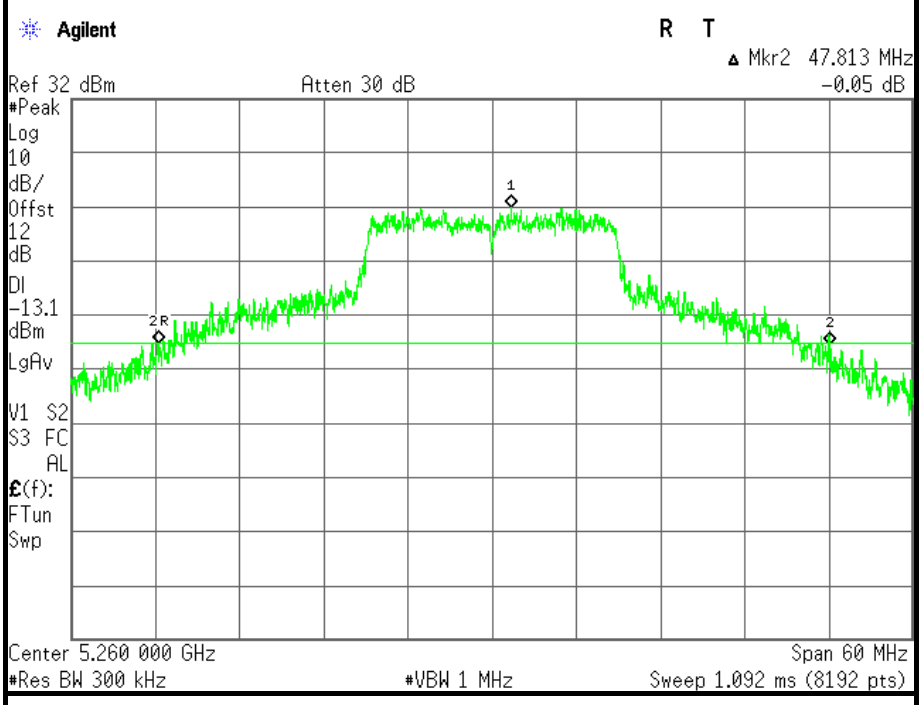
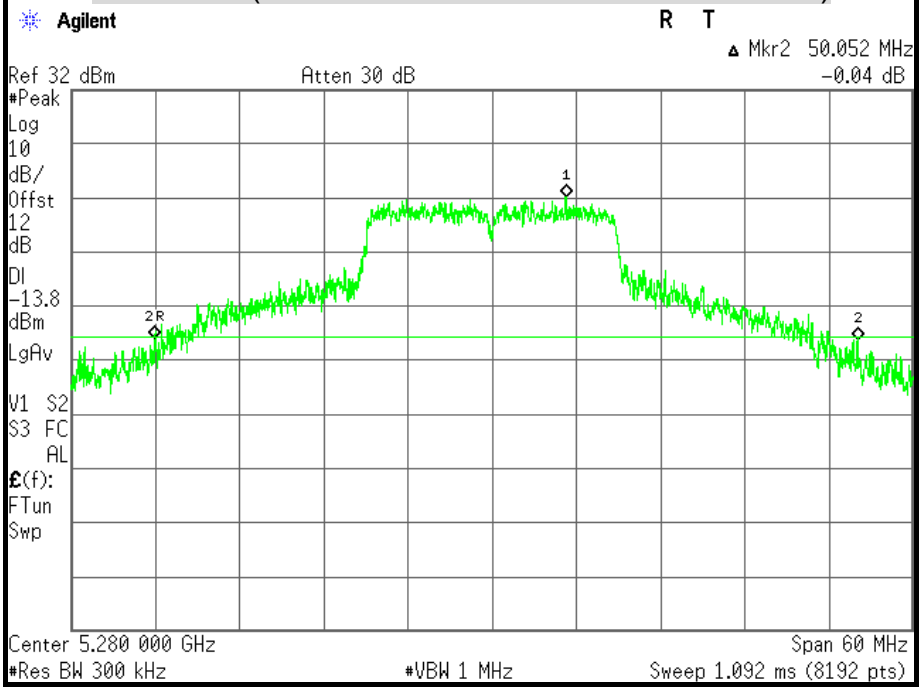
CH Low (IEEE 802.11an HT20 Mode / Band 2A)



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



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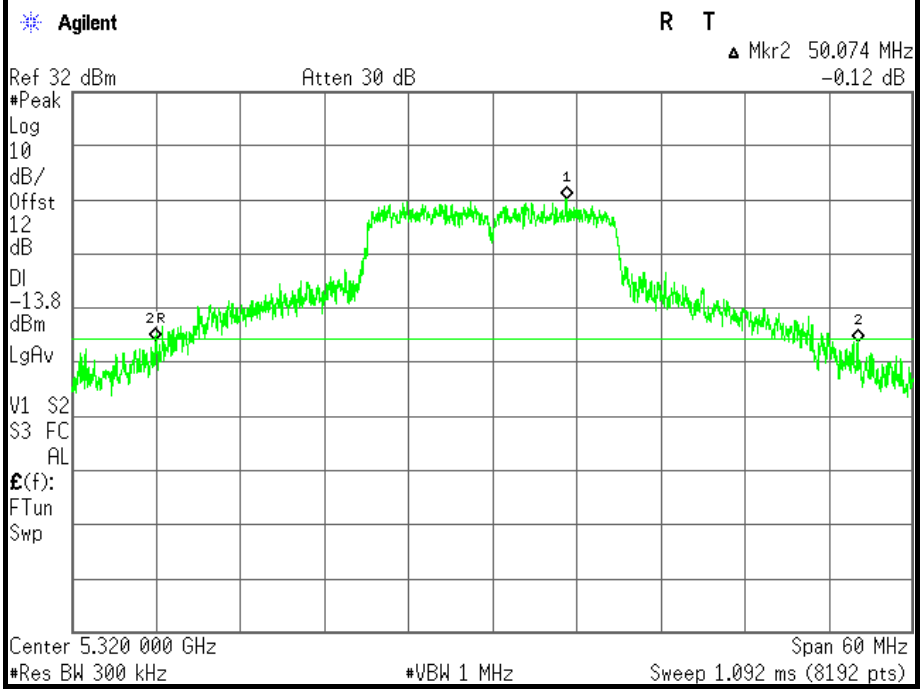
CH High (IEEE 802.11an HT20 Mode / Band 2A)



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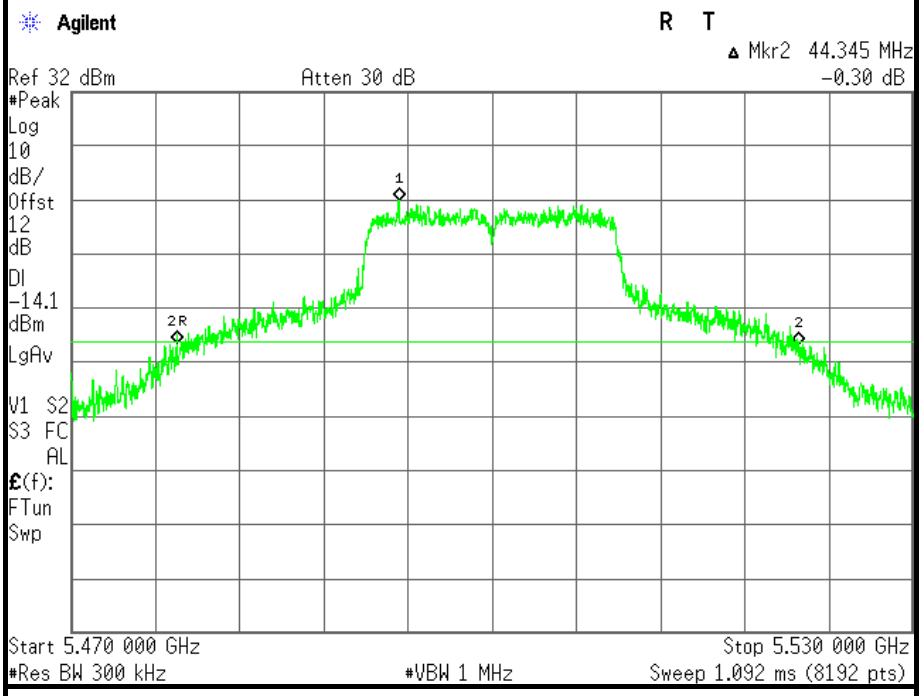
CH Low (IEEE 802.11an HT20 Mode / Band 2C)



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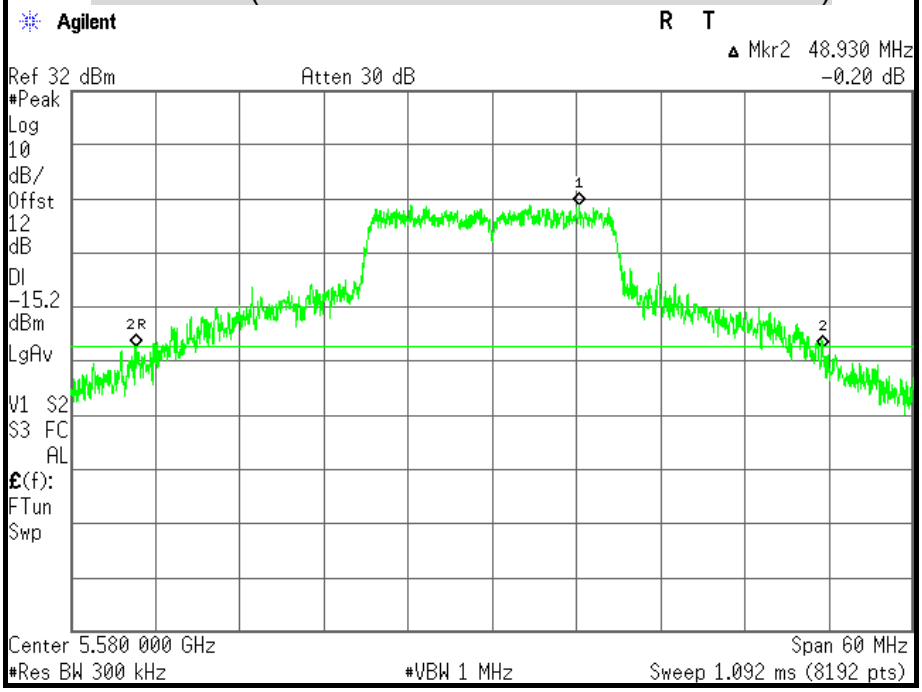

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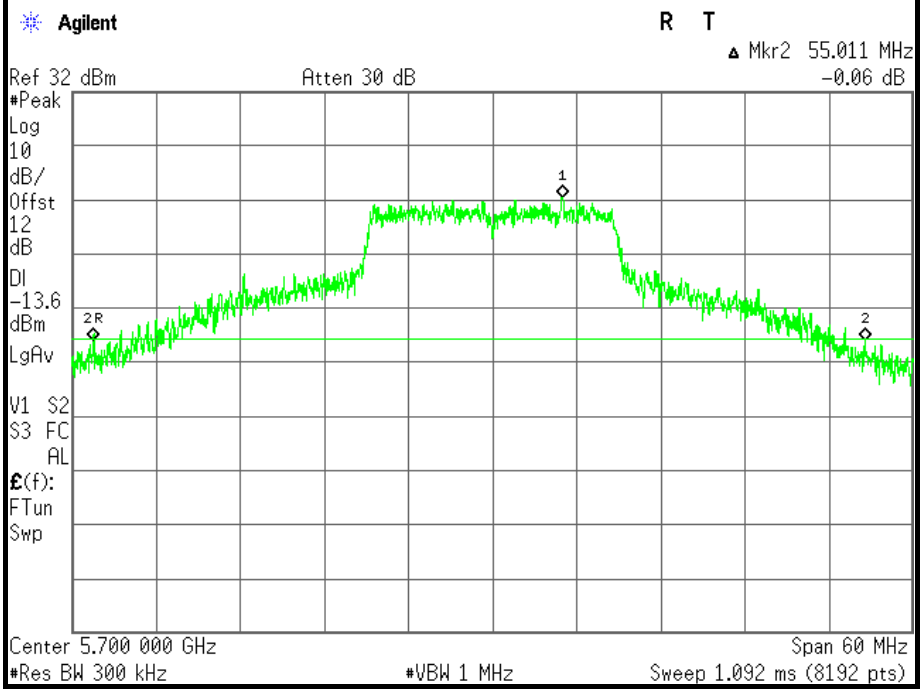
CH High (IEEE 802.11an HT20 Mode / Band 2C)



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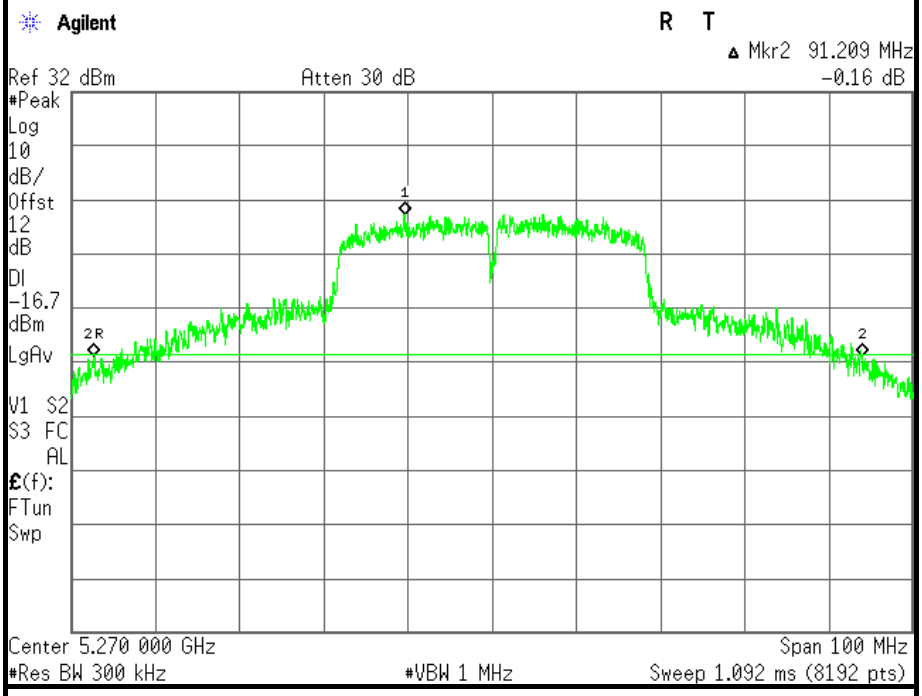
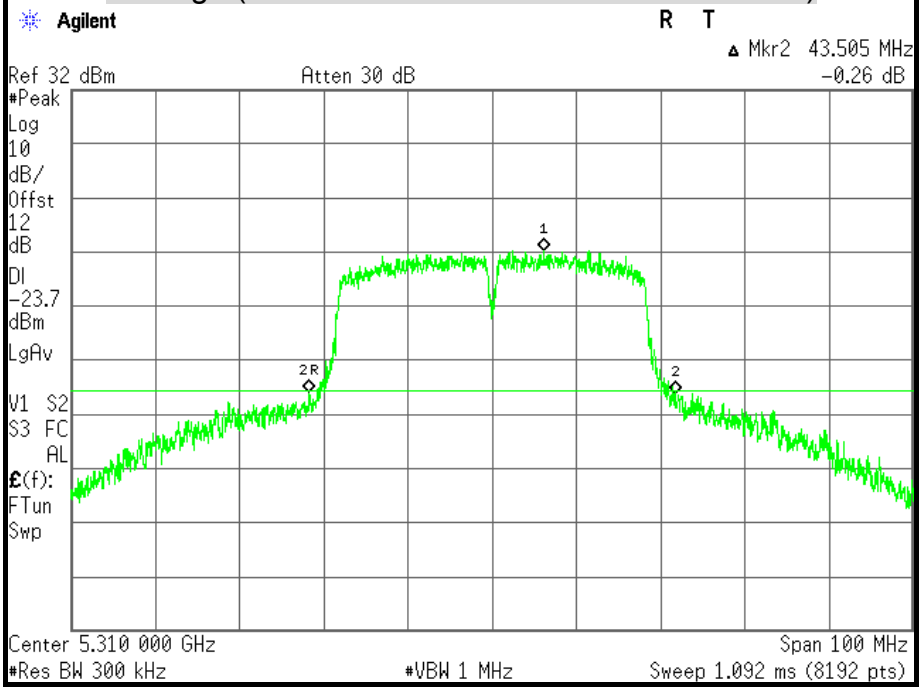
CH Low (IEEE 802.11an HT40 Mode / Band 2A)



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



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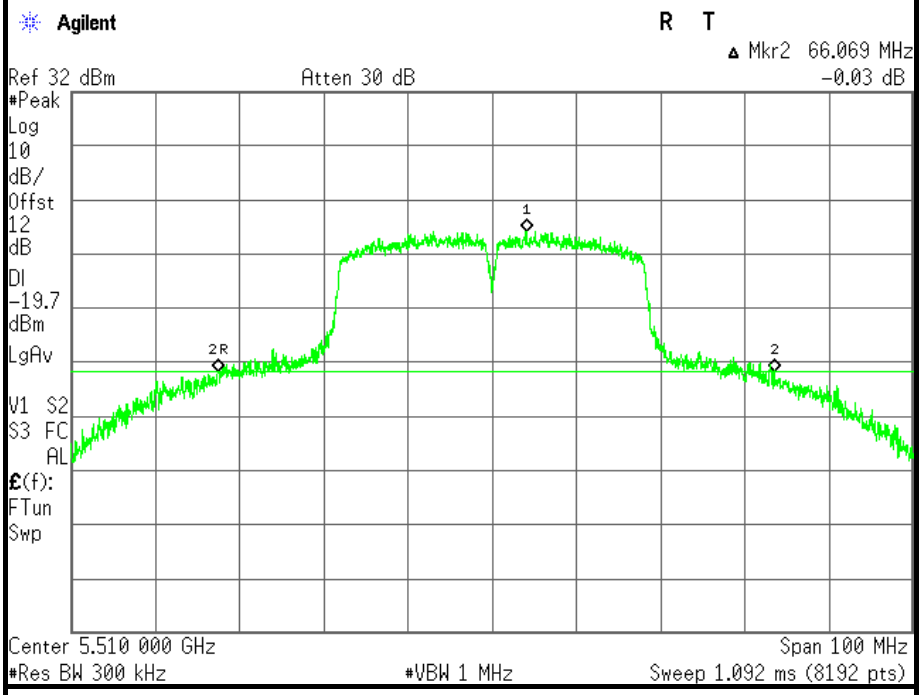
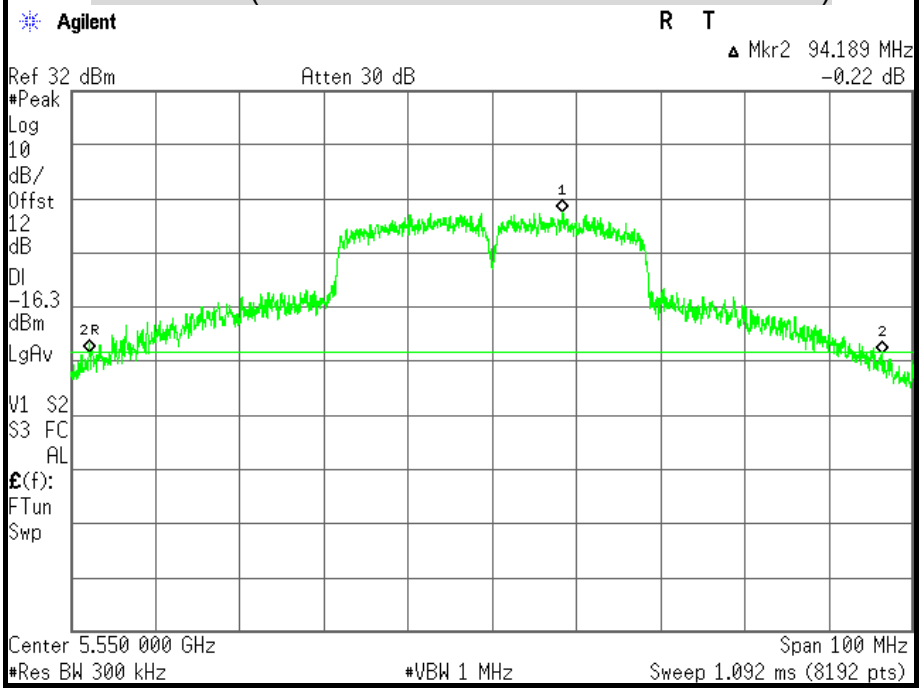
CH Low (IEEE 802.11an HT40 Mode / Band 2C)



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



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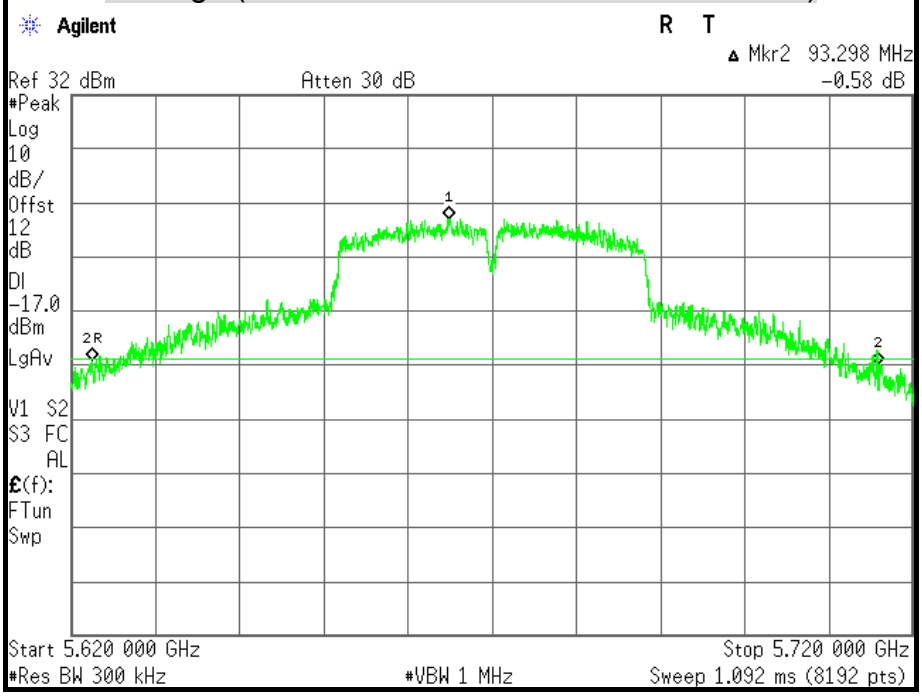
CH High (IEEE 802.11an HT40 Mode / Band 2C)



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7.2 6dB BANDWIDTH

LIMITS

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

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2015

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 spectrum analyzer as RBW = 100kHz, VBW = 300kHz, Sweep = auto.
4. Mark the peak frequency and –6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

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TEST RESULTS

IEEE 802.11a Mode

U-NII	Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)
Band 3	Low	5745	16.33
	Middle	5785	16.45
	High	5825	16.30

IEEE 802.11an HT20 Mode

U-NII	Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)
Band 3	Low	5745	17.60
	Middle	5785	17.59
	High	5825	17.05

IEEE 802.11an HT40 Mode

U-NII	Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)
Band 3	Low	5755	32.60
	High	5795	31.56

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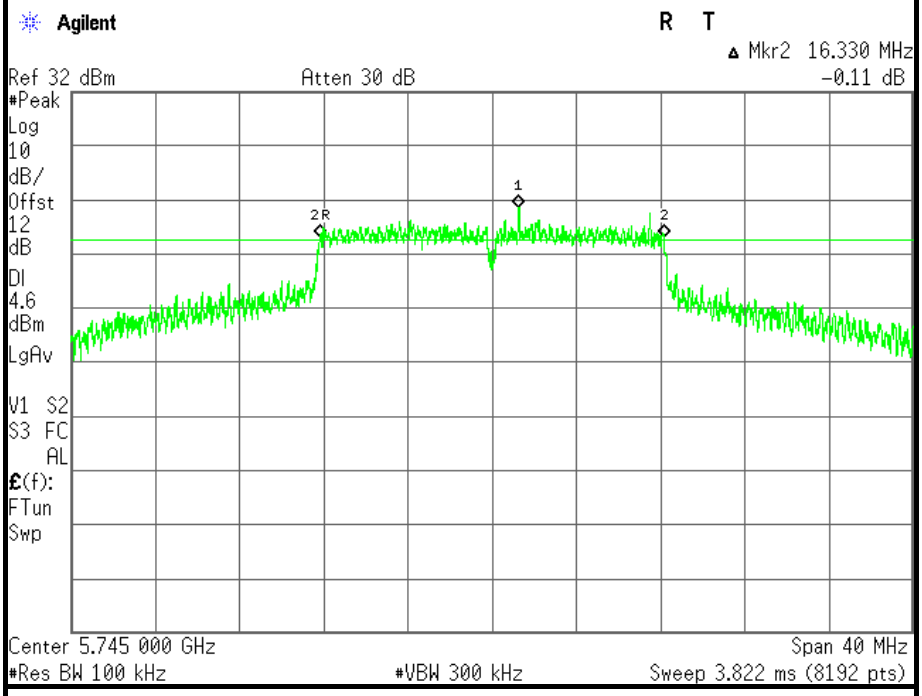
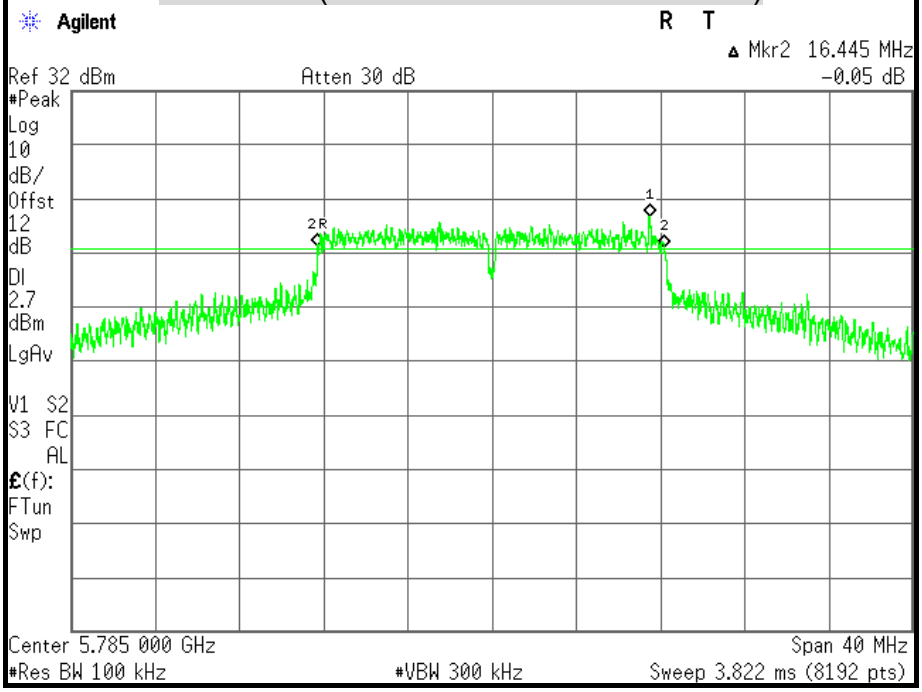
6dB BANDWIDTH

CH Low (IEEE 802.11a Mode / Band 3)



CH Middle (IEEE 802.11a Mode / Band 3)



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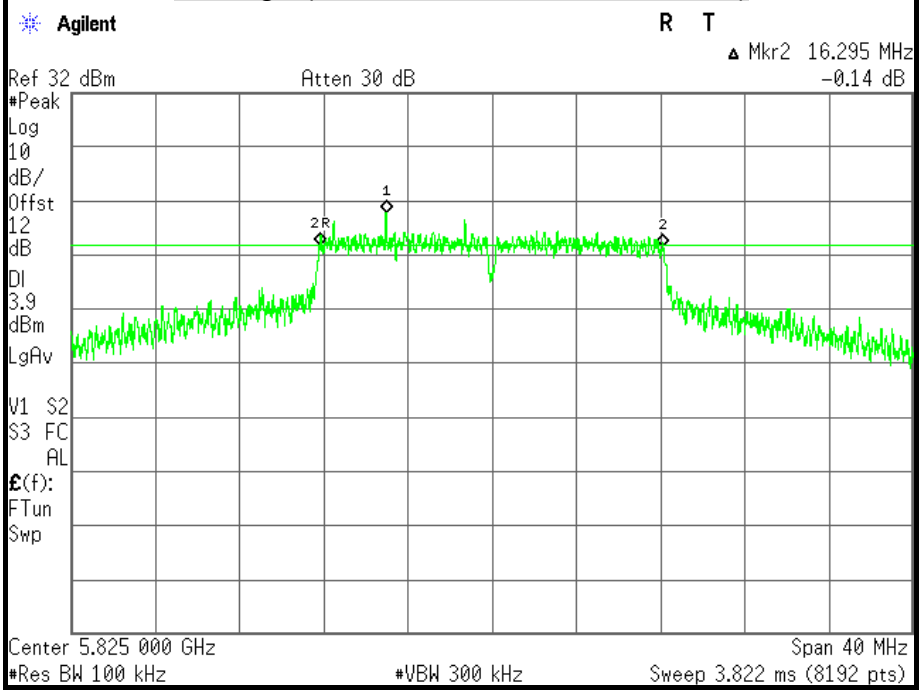
CH High (IEEE 802.11a Mode / Band 3)



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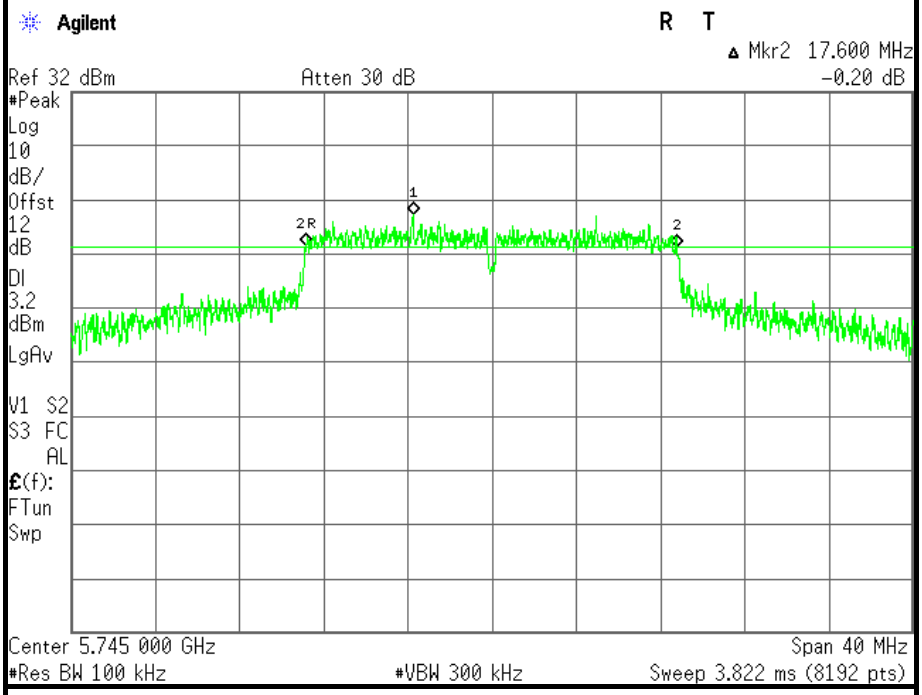
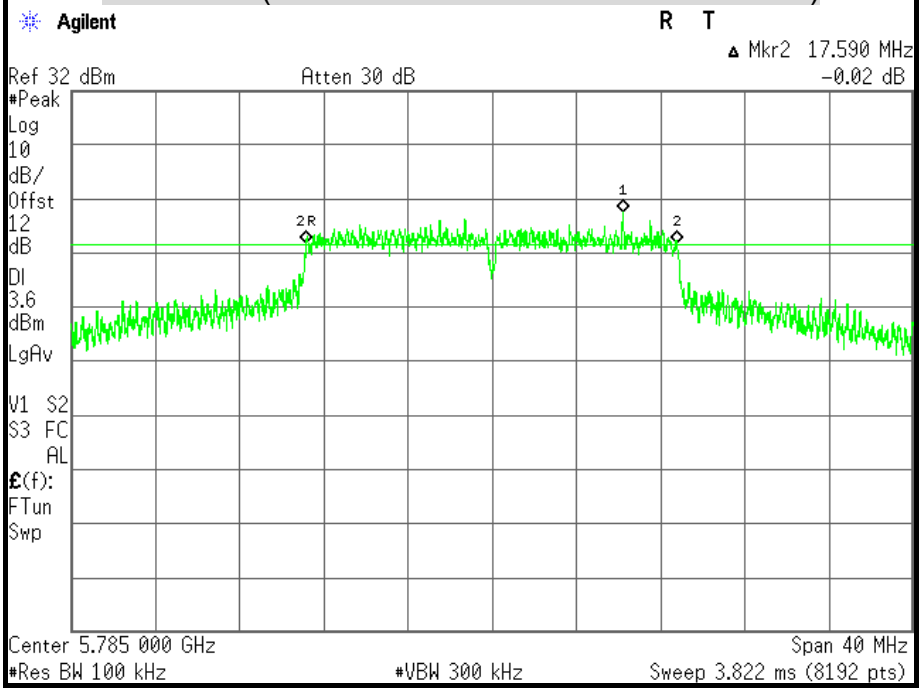
CH Low (IEEE 802.11an HT20 Mode / Band 3)



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



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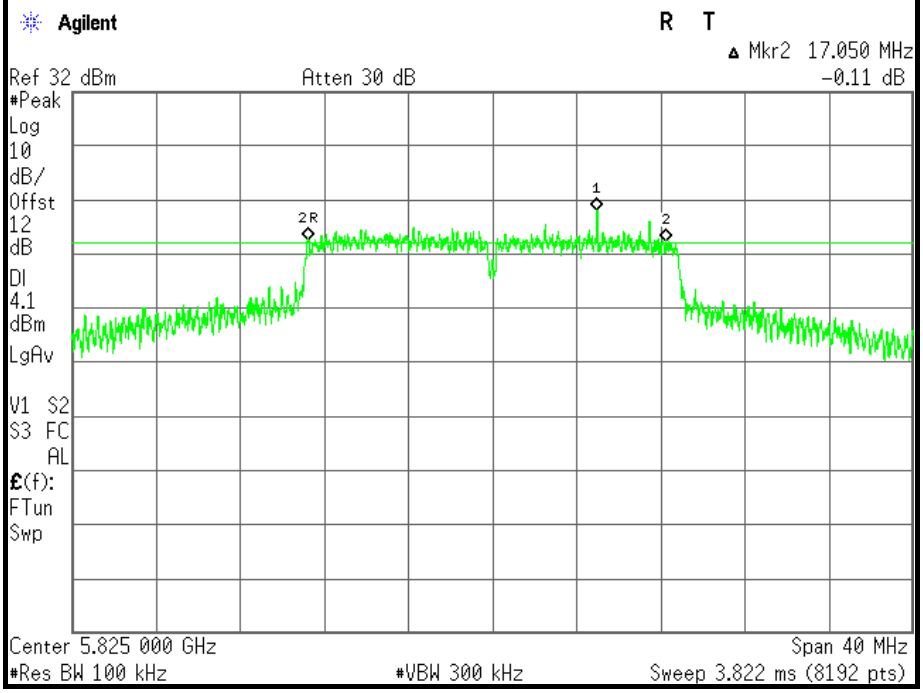
CH High (IEEE 802.11an HT20 Mode / Band 3)



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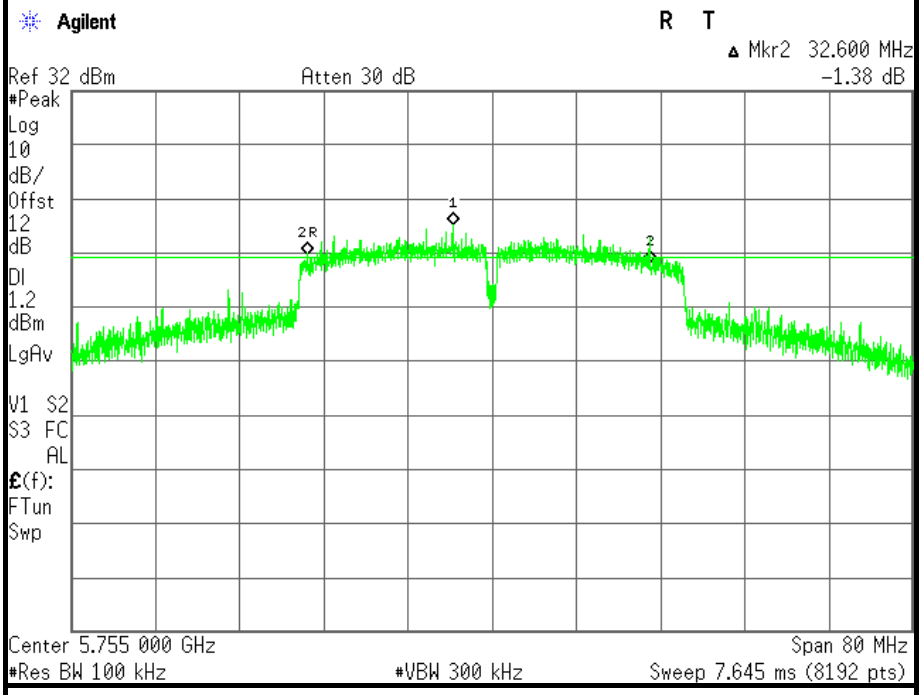
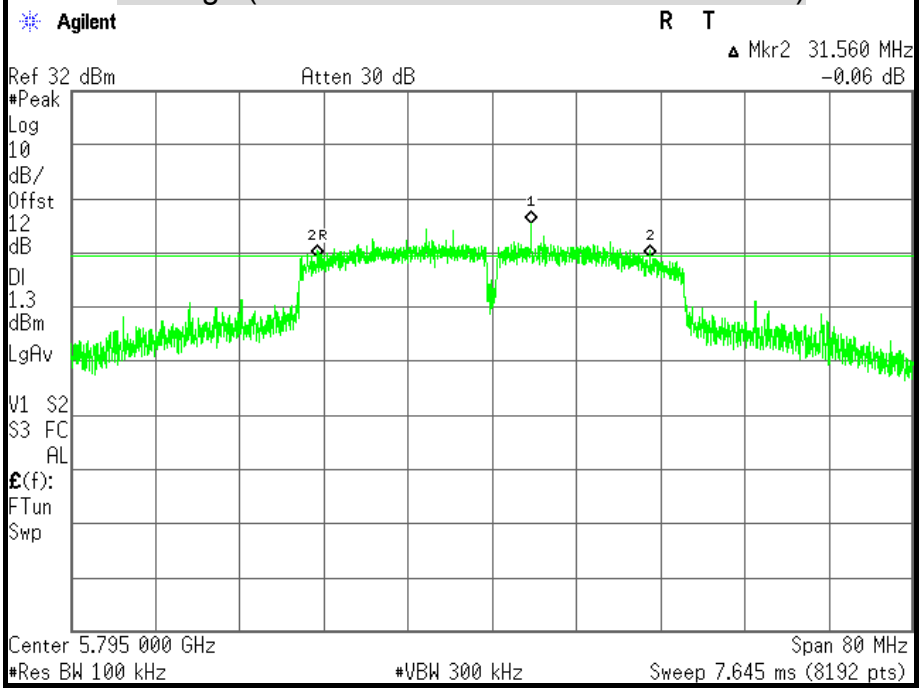
CH Low (IEEE 802.11an HT40 Mode / Band 3)



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



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7.3 MAXIMUM CONDUCTED OUTPUT POWER

LIMITS

§ 15.407(a)

(1) For the band 5.15-5.25 GHz,

(I) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

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

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

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(IV) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

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TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	ANRITSU	ML2495A	1149001	12/06/2014
Power Sensor	ANRITSU	MA2411B	1126148	12/06/2014

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

TEST SETUP

TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the power detection.

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TEST RESULTS

The power shall not exceeded the limit as follows:

IEEE 802.11a Mode / UNII Band 2A

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	11dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5260	47.47	16.76447	27.76447	24
Middle	5280	46.32	16.65722	27.65722	24
High	5320	38.07	15.80617	26.80617	24

IEEE 802.11a Mode / UNII Band 2C

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	11dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5500	43.67	16.40183	27.40183	24
Middle	5580	45.94	16.62210	27.62210	24
High	5700	49.89	16.98014	27.98014	24

IEEE 802.11an HT20 Mode/ UNII Band 2A

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	11dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5260	47.81	16.79546	27.79546	24
Middle	5280	50.05	16.99421	27.99421	24
High	5320	50.07	16.99612	27.99612	24

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IEEE 802.11an HT20 Mode/ UNII Band 2C

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	11dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5500	44.35	16.46845	27.46845	24
Middle	5580	48.93	16.89575	27.89575	24
High	5700	55.01	17.40450	28.40450	24

IEEE 802.11an HT40 Mode/ UNII Band 2A

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	11dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5270	91.21	19.60038	30.60038	24
High	5310	43.51	16.38539	27.38539	24

IEEE 802.11an HT40 Mode/ UNII Band 2C

Channel	Channel Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log B (dB)	11dBm + 10 Log B (dBm)	Maximum Conducted Output Power Limit (dBm)
Low	5510	66.07	18.19998	29.19998	24
Middle	5550	94.19	19.74000	30.74000	24
High	5670	93.30	19.69872	30.69872	24

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IEEE 802.11a Mode / UNII Band 1

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5180	17.32	0.0540	24	0.2512	PASS
Middle	5220	21.05	0.1274	24	0.2512	PASS
High	5240	21.10	0.1288	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

IEEE 802.11an HT20 Mode / UNII Band 1

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5180	17.29	0.0536	24	0.2512	PASS
Middle	5220	21.03	0.1268	24	0.2512	PASS
High	5240	20.94	0.1242	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 6.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11an HT40 Mode / UNII Band 1

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5190	13.02	0.0200	24	0.2512	PASS
High	5230	20.64	0.1159	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 13.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11a Mode / UNII Band 2A

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5260	20.82	0.1208	24	0.2512	PASS
Middle	5280	20.60	0.1148	24	0.2512	PASS
High	5320	17.67	0.0585	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

IEEE 802.11an HT20 Mode / UNII Band 2A

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5260	20.86	0.1219	24	0.2512	PASS
Middle	5280	20.60	0.1148	24	0.2512	PASS
High	5320	17.24	0.0530	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 6.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11an HT40 Mode / UNII Band 2A

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5270	20.06	0.1014	24	0.2512	PASS
High	5310	13.65	0.0232	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 13.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11a Mode / UNII Band 2C

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5500	19.98	0.0995	24	0.2512	PASS
Middle	5580	19.83	0.0962	24	0.2512	PASS
High	5700	20.83	0.1211	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

IEEE 802.11an HT20 Mode / UNII Band 2C

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5500	19.73	0.0940	24	0.2512	PASS
Middle	5580	19.84	0.0964	24	0.2512	PASS
High	5700	20.77	0.1194	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 6.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11an HT40 Mode / UNII Band 2C

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5510	17.10	0.0513	24	0.2512	PASS
Middle	5550	20.42	0.1102	24	0.2512	PASS
High	5670	20.14	0.1033	24	0.2512	PASS

Remark:

1. *At finial test to get the worst-case emission at 13.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11a Mode / UNII Band 3

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5745	20.34	0.1081	30	1	PASS
Middle	5785	20.14	0.1033	30	1	PASS
High	5825	19.29	0.0849	30	1	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

IEEE 802.11an HT20 Mode / UNII Band 3

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5745	20.35	0.1084	30	1	PASS
Middle	5785	20.08	0.1019	30	1	PASS
High	5825	19.28	0.0847	30	1	PASS

Remark:

1. *At finial test to get the worst-case emission at 6.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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IEEE 802.11an HT40 Mode / UNII Band 3

Channel	Channel Frequency (MHz)	Power (dBm)		Power Limit		Pass / Fail
		(dBm)	(W)	(dBm)	(W)	
Low	5755	20.50	0.1122	30	1	PASS
High	5795	20.04	0.1009	30	1	PASS

Remark:

1. *At finial test to get the worst-case emission at 13.5Mbps.*
2. *The cable assembly insertion loss of 12dB (including 10 dB pad and 2dB cable) was Entered as an offset in the power meter to allow for direct reading of power.*

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7.4 PEAK POWER SPECTRAL DENSITY

LIMITS

§ 15.407 (a)

(1) For the band 5.15-5.25 GHz

(I) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

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

(IV) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed
250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

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(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2015

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

TEST SETUP

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TEST PROCEDURE

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

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TEST RESULTS

IEEE 802.11a Mode

U-NII	Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm/MHz)	Pass / Fail
Band 1	Low	5180	6.50	11	PASS
	Middle	5220	9.99	11	PASS
	High	5240	9.88	11	PASS
Band 2A	Low	5260	9.88	11	PASS
	Middle	5280	9.69	11	PASS
	High	5320	6.58	11	PASS
Band 2C	Low	5500	8.87	11	PASS
	Middle	5580	9.21	11	PASS
	High	5700	9.86	11	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

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IEEE 802.11an HT20 Mode

U-NII	Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm/MHz)	Pass / Fail
Band 1	Low	5180	6.08	11	PASS
	Middle	5220	9.74	11	PASS
	High	5240	9.71	11	PASS
Band 2A	Low	5260	9.74	11	PASS
	Middle	5280	9.47	11	PASS
	High	5320	6.16	11	PASS
Band 2C	Low	5500	8.37	11	PASS
	Middle	5580	8.86	11	PASS
	High	5700	9.57	11	PASS

Remark:

1. *At finial test to get the worst-case emission at 6.5Mbps.*
2. *The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

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IEEE 802.11n HT40 Mode

U-NII	Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm/MHz)	Pass / Fail
Band 1	Low	5190	-0.57	11	PASS
	High	5230	6.92	11	PASS
Band 2A	Low	5270	6.88	11	PASS
	High	5310	-0.06	11	PASS
Band 2C	Low	5510	3.21	11	PASS
	Middle	5550	6.72	11	PASS
	High	5670	7.27	11	PASS

Remark:

1. *At finial test to get the worst-case emission at 13.5Mbps.*
2. *The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

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IEEE 802.11a Mode

U-NII	Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm/500kHz)	Pass / Fail
Band 3	Low	5745	7.06	30	PASS
	Middle	5785	6.60	30	PASS
	High	5825	6.10	30	PASS

Remark:

1. *At finial test to get the worst-case emission at 6Mbps.*
2. *The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

IEEE 802.11an HT20 Mode

U-NII	Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm/500kHz)	Pass / Fail
Band 3	Low	5745	6.82	30	PASS
	Middle	5785	6.31	30	PASS
	High	5825	5.85	30	PASS

Remark:

1. *At finial test to get the worst-case emission at 6.5Mbps.*
2. *The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

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IEEE 802.11an HT40 Mode

U-NII	Channel	Channel Frequency (MHz)	PPSD (dBm)	Minimum Limit (dBm/500kHz)	Pass / Fail
Band 3	Low	5755	4.36	30	PASS
	High	5795	3.73	30	PASS

Remark:

1. *At finial test to get the worst-case emission at 13.5Mbps.*
2. *The cable assembly insertion loss of 12 dB (including 10 dB pad and 2 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.*

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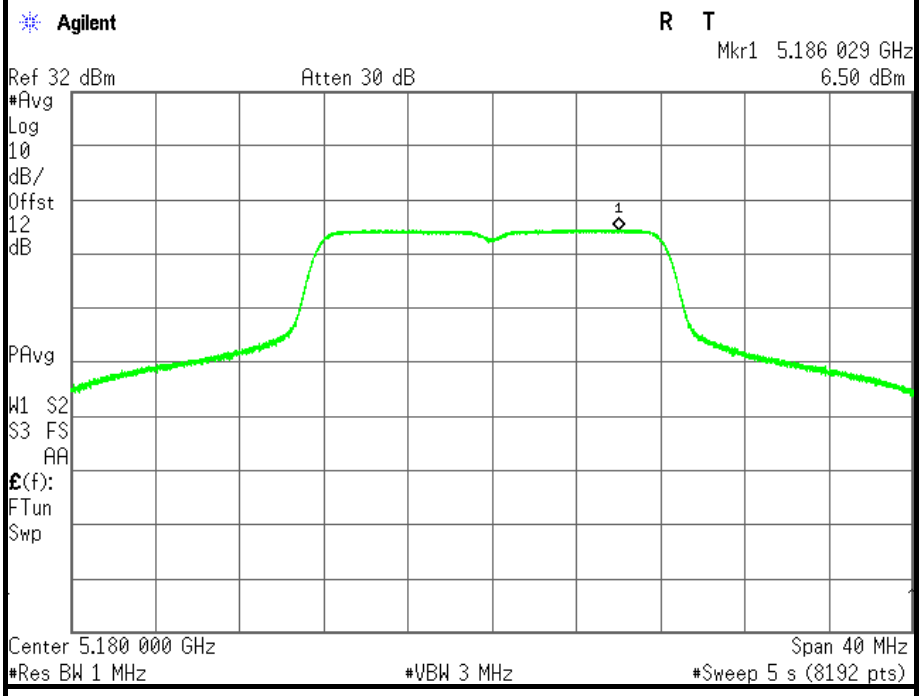
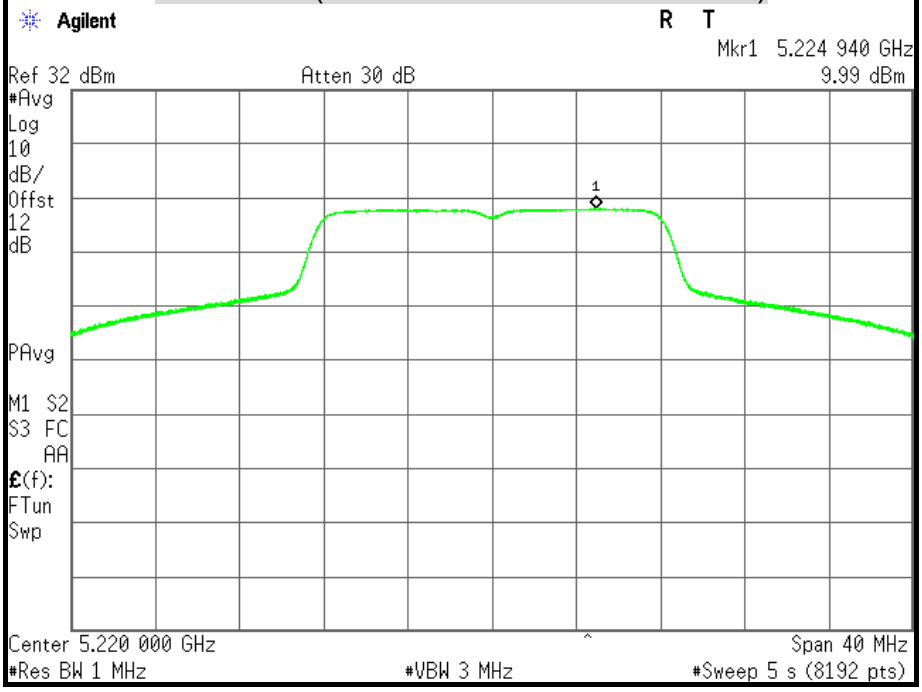
POWER SPECTRAL DENSITY

CH Low (IEEE 802.11a Mode / Band 1)



CH Middle (IEEE 802.11a Mode / Band 1)



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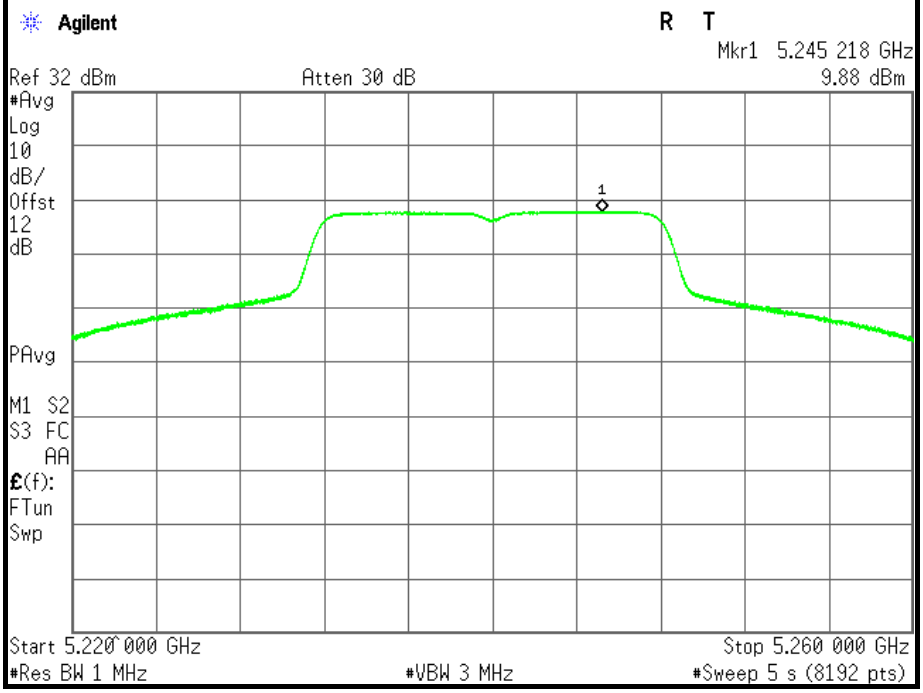
CH High (IEEE 802.11a Mode Mode / Band 1)



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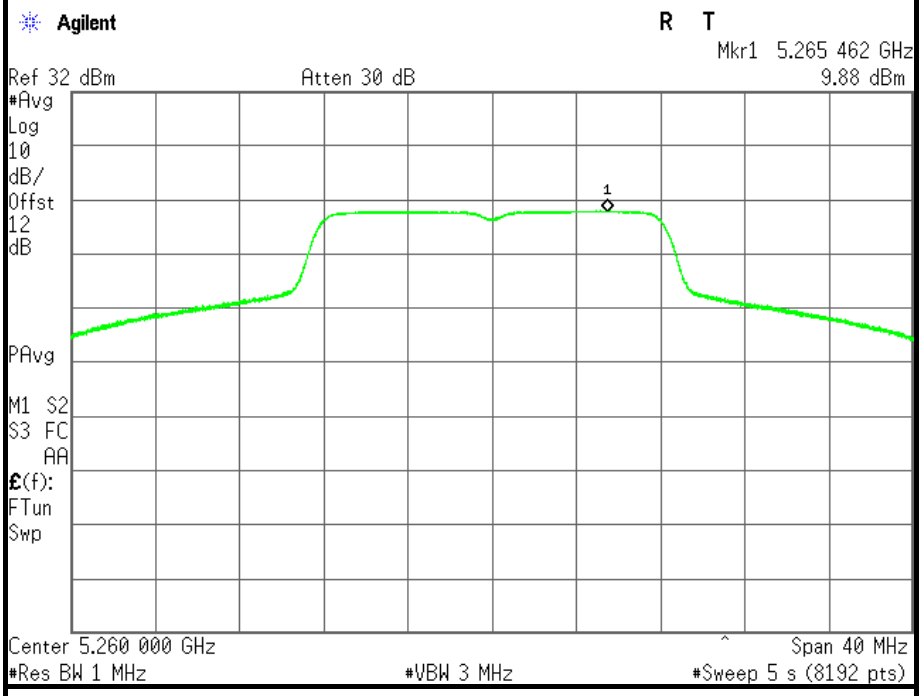
CH Low (IEEE 802.11a Mode / Band 2A)



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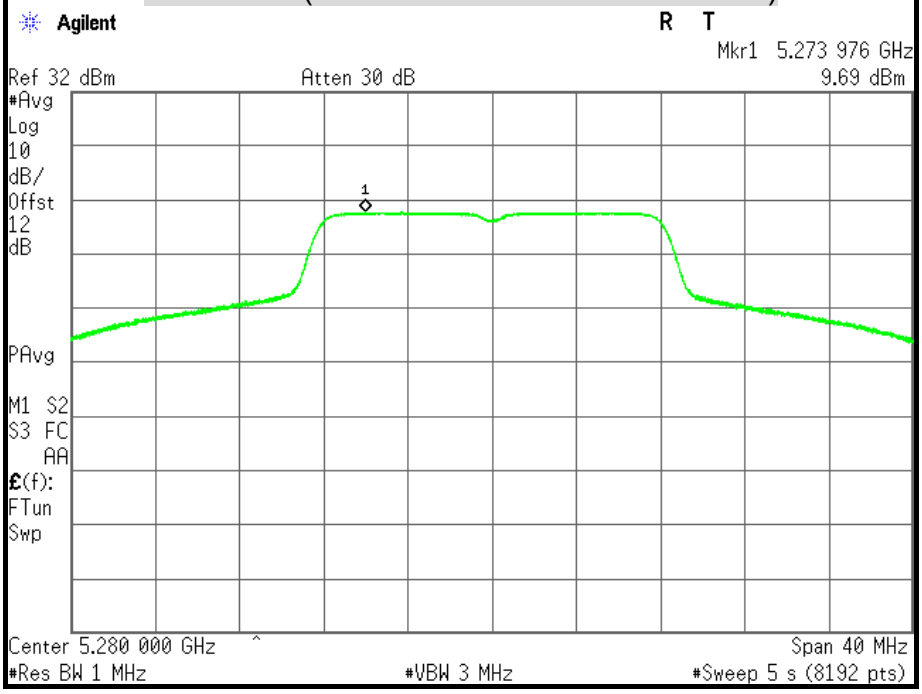

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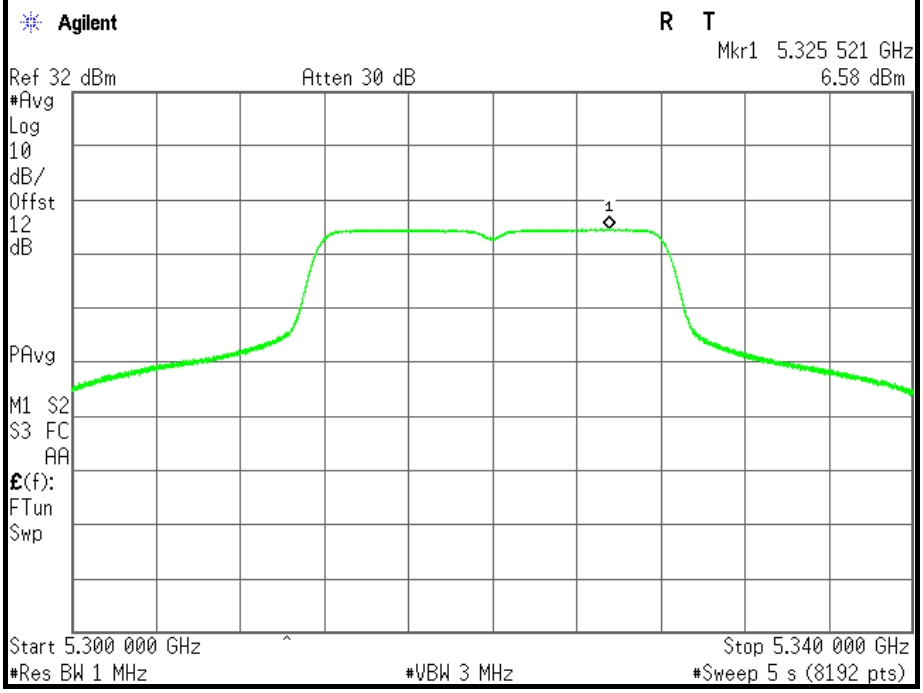
CH High (IEEE 802.11a Mode Mode / Band 2A)



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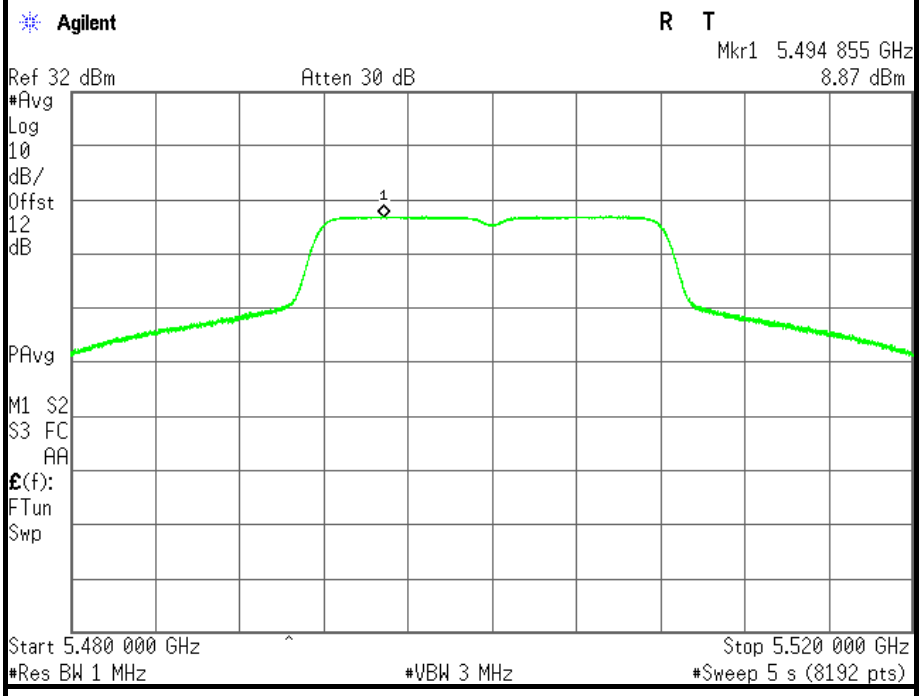
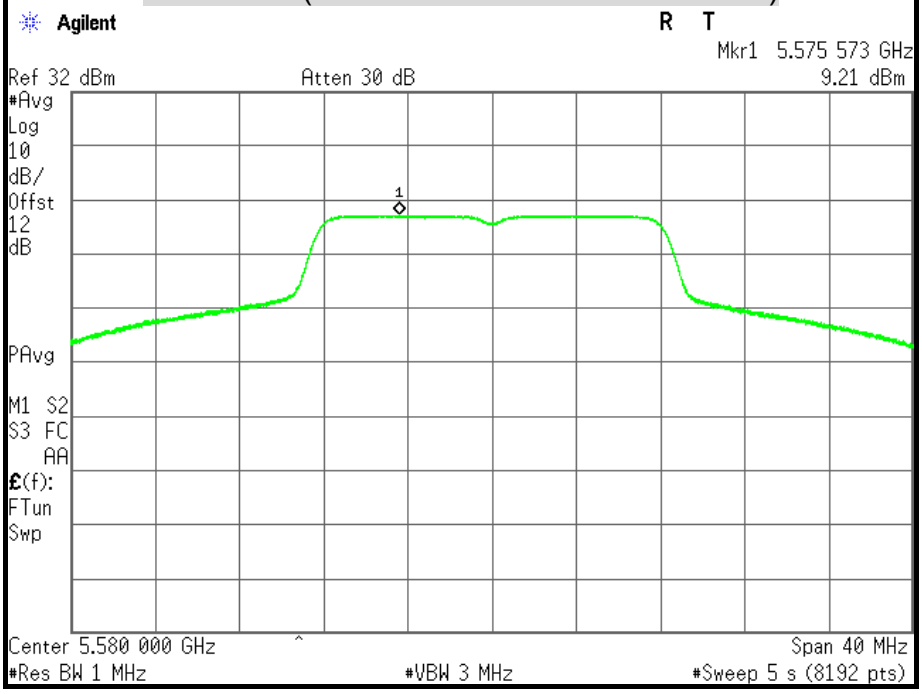
CH Low (IEEE 802.11a Mode / Band 2C)



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



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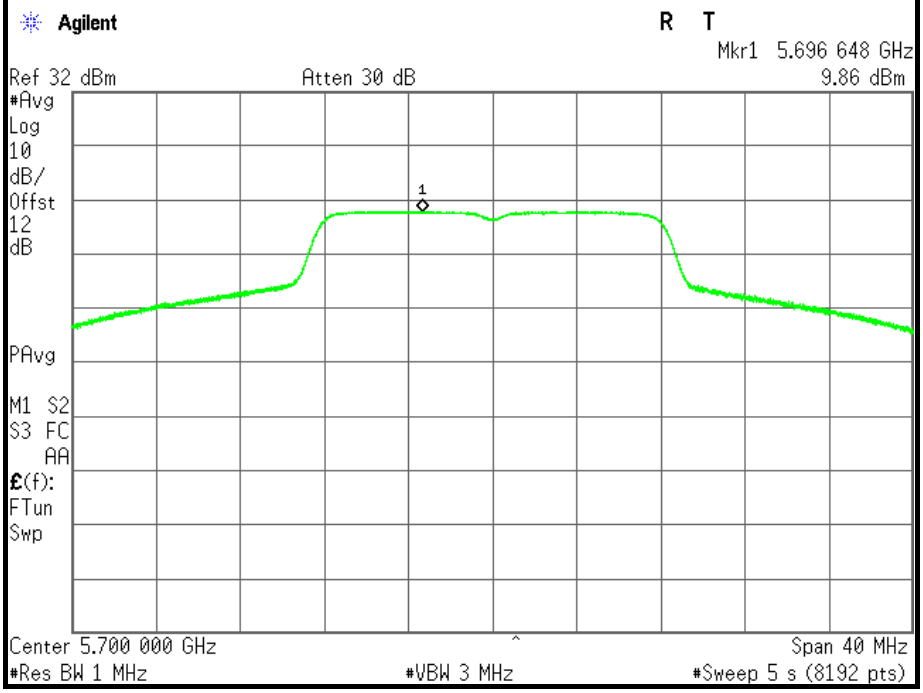
CH High (IEEE 802.11a Mode Mode / Band 2C)



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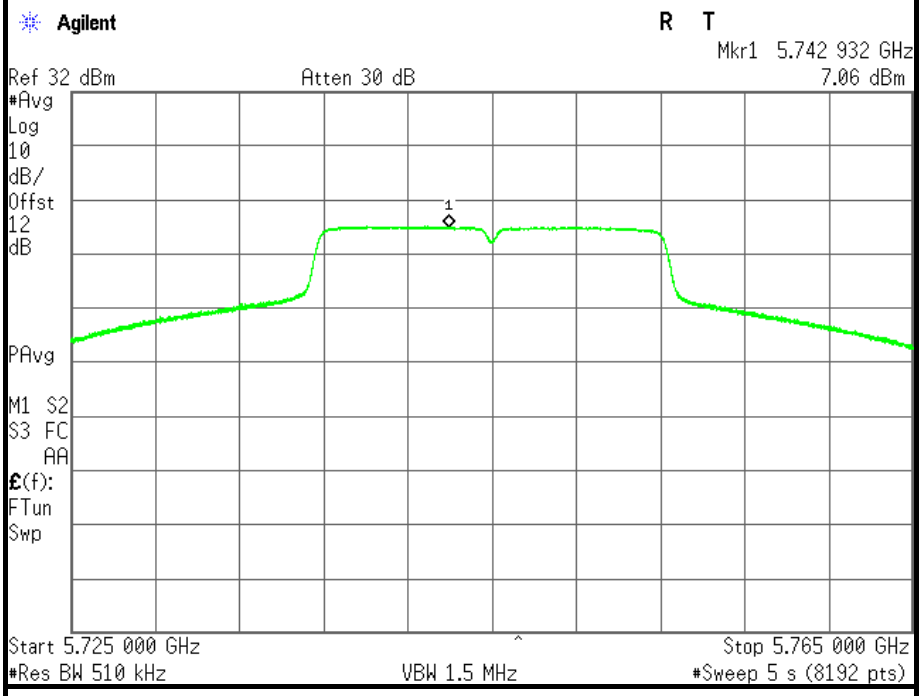
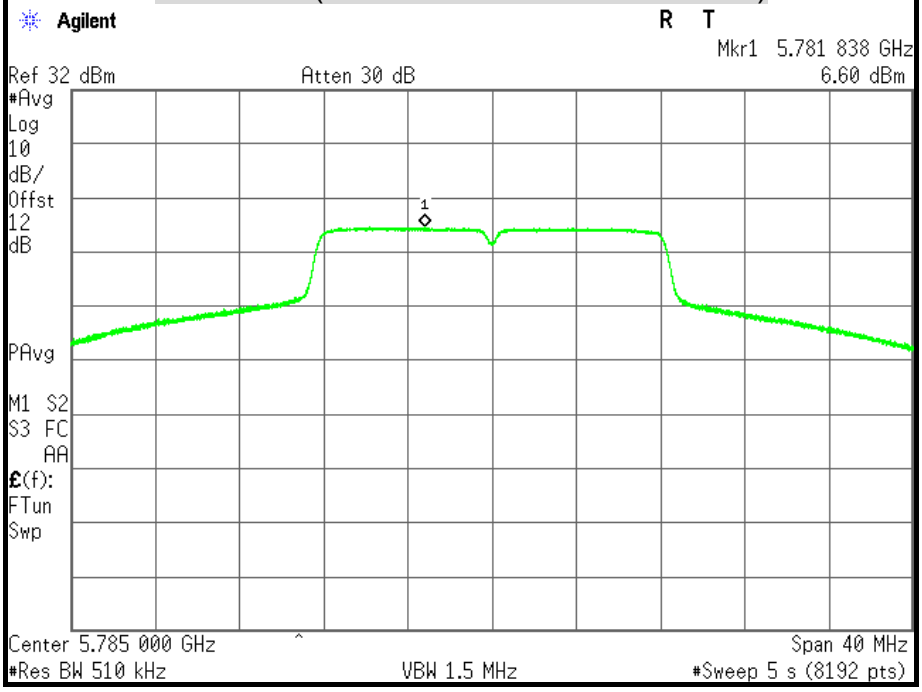
CH Low (IEEE 802.11a Mode / Band 3)



CH Middle (IEEE 802.11a Mode / Band 3)



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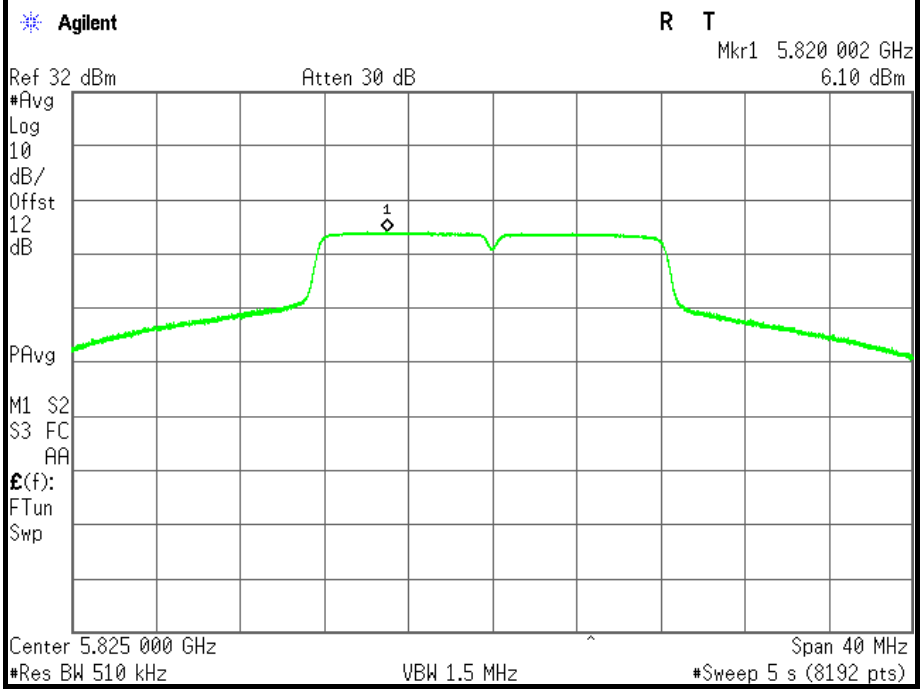
CH High (IEEE 802.11a Mode Mode / Band 3)



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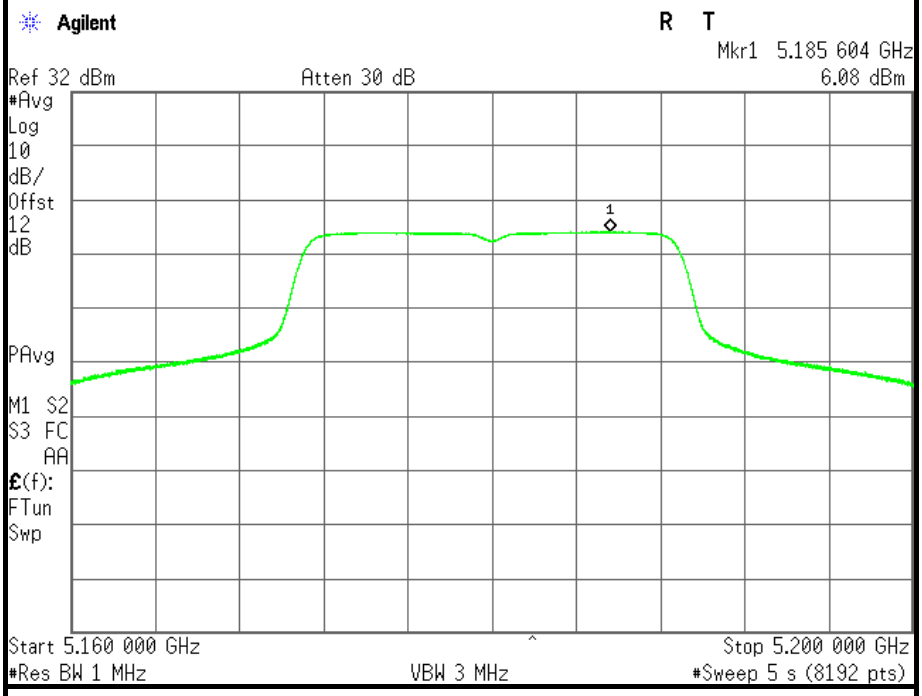
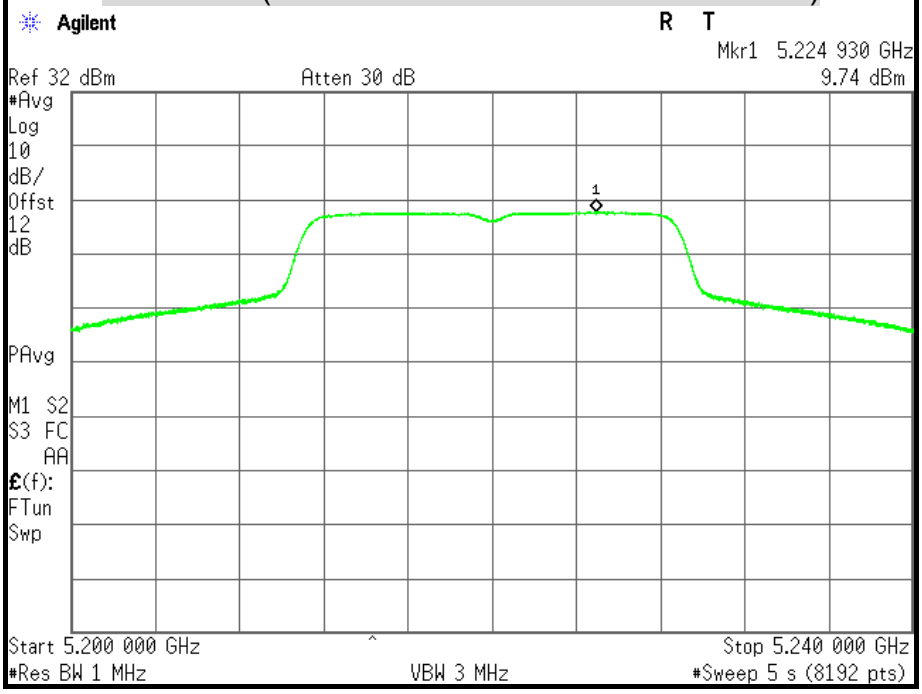
CH Low (IEEE 802.11an Mode HT20 / Band 1)



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



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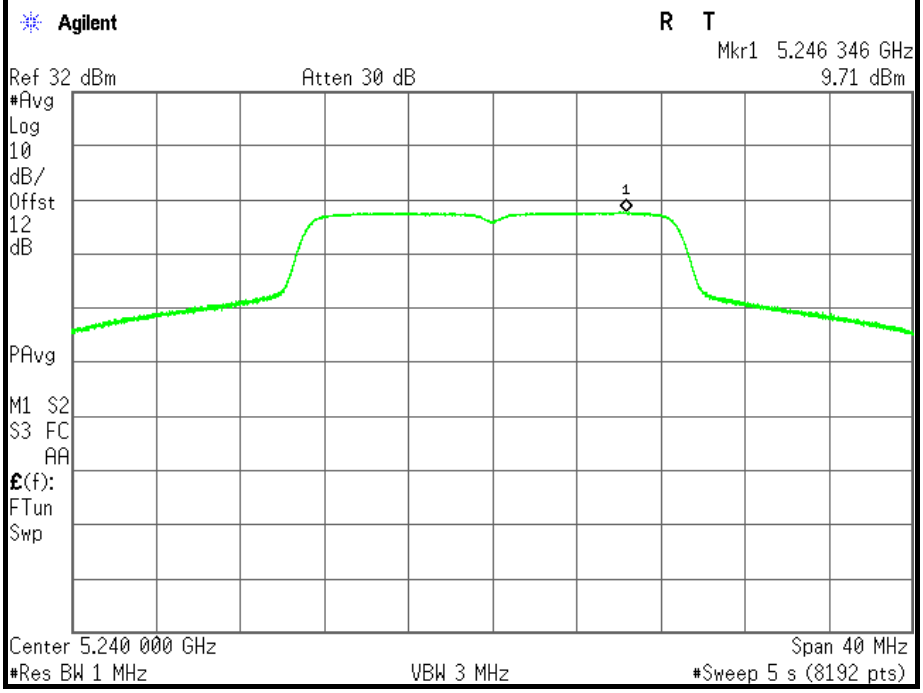
CH High (IEEE 802.11an Mode HT20 / Band 1)



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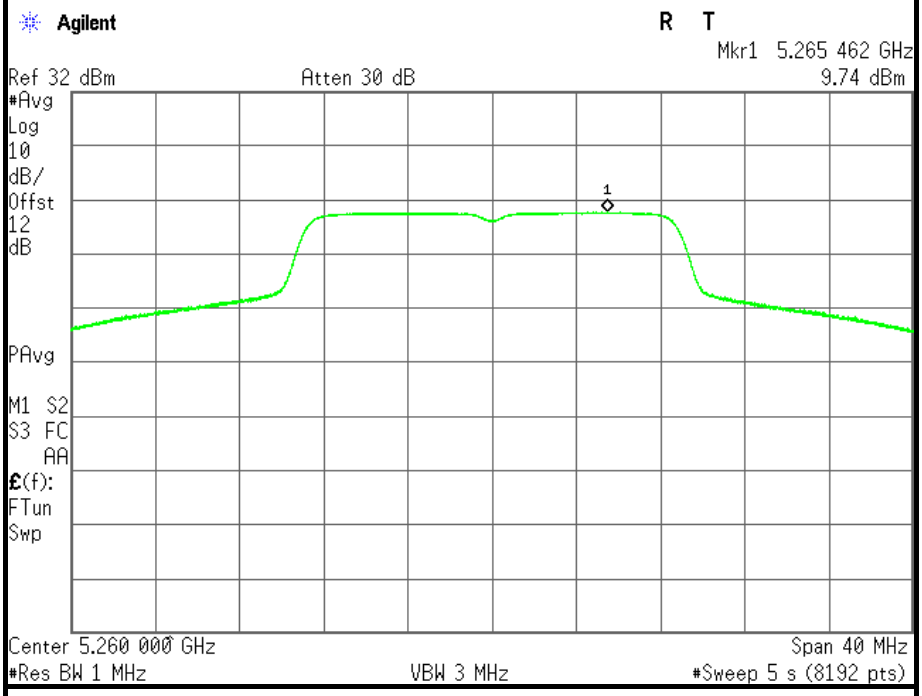
CH Low (IEEE 802.11an Mode HT20 / Band 2A)



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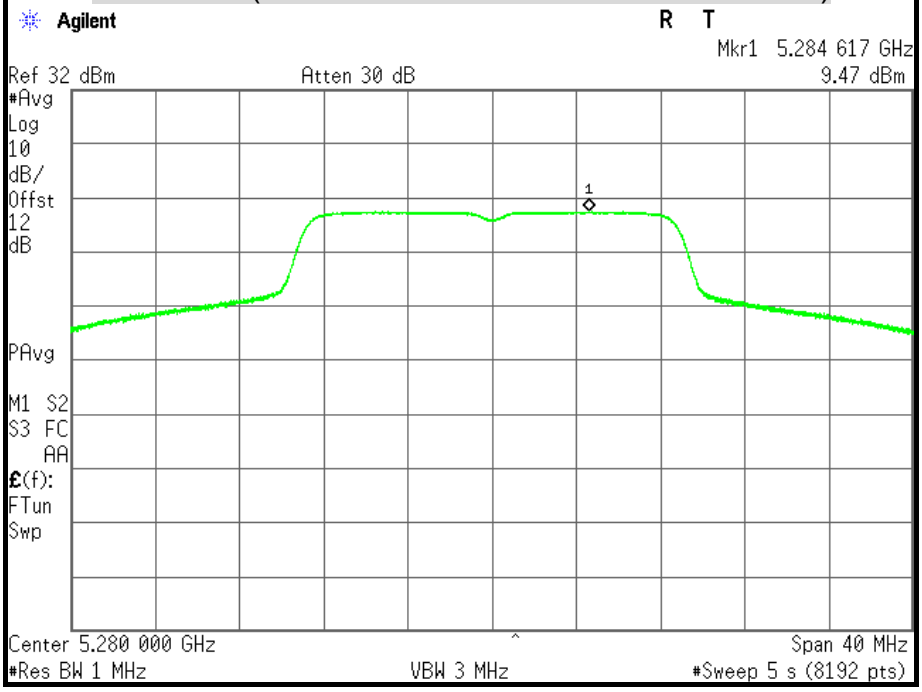

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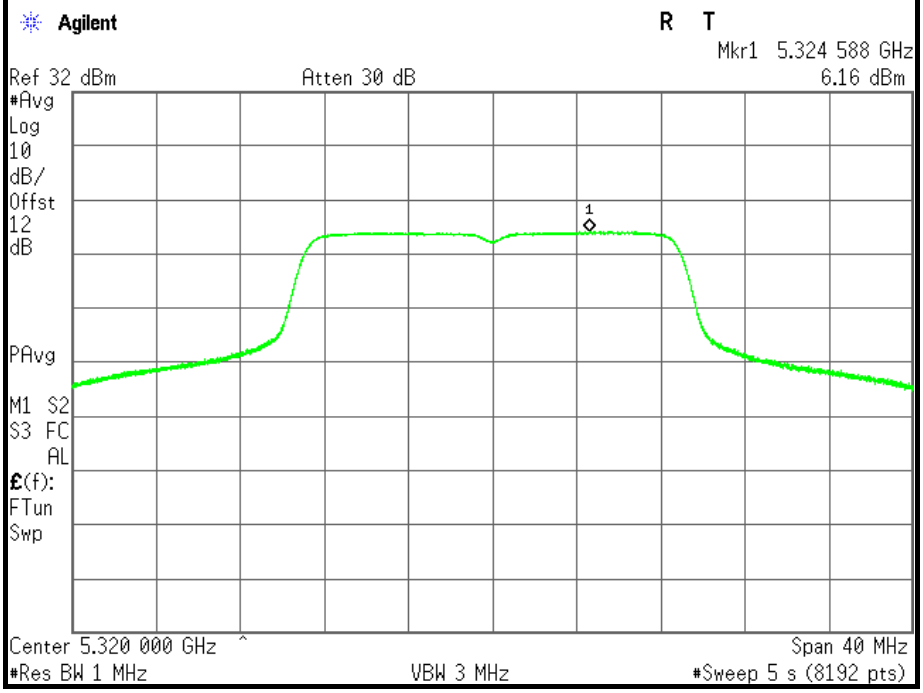
CH High (IEEE 802.11an Mode HT20 / Band 2A)



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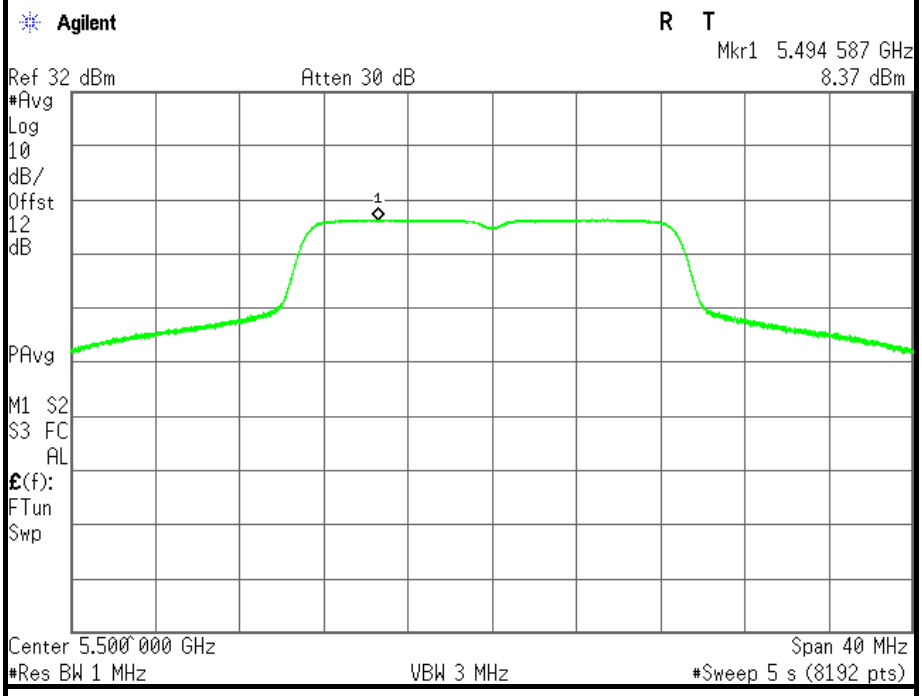
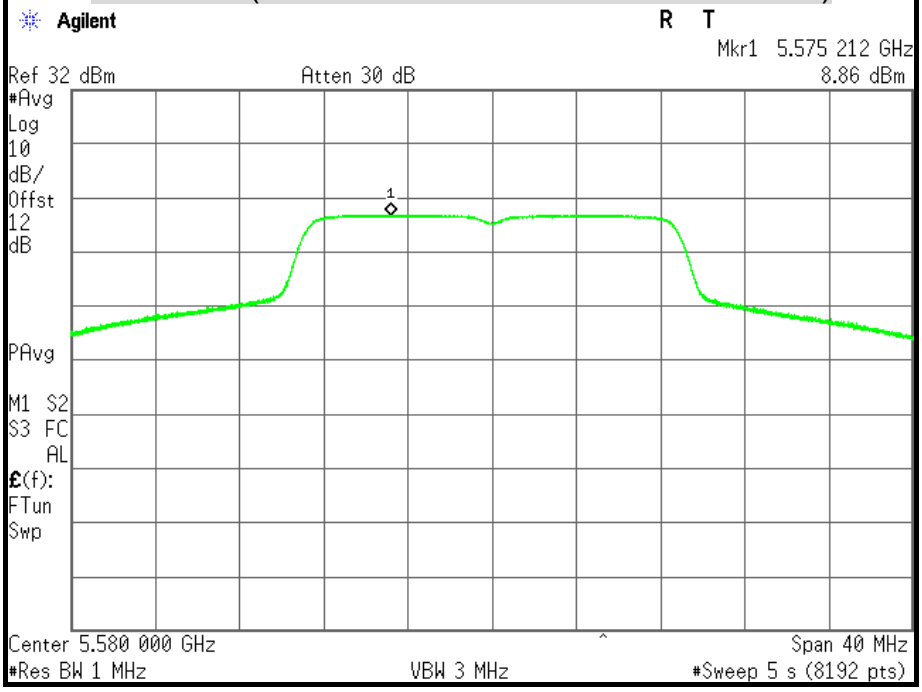
CH Low (IEEE 802.11an Mode HT20 / Band 2C)



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



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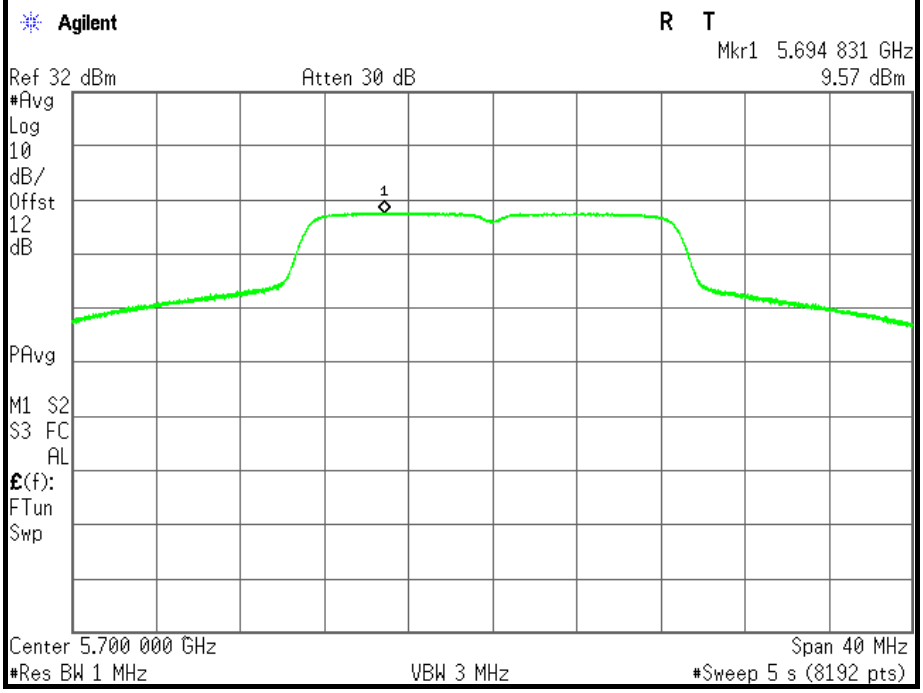
CH High (IEEE 802.11an Mode HT20 / Band 2C)



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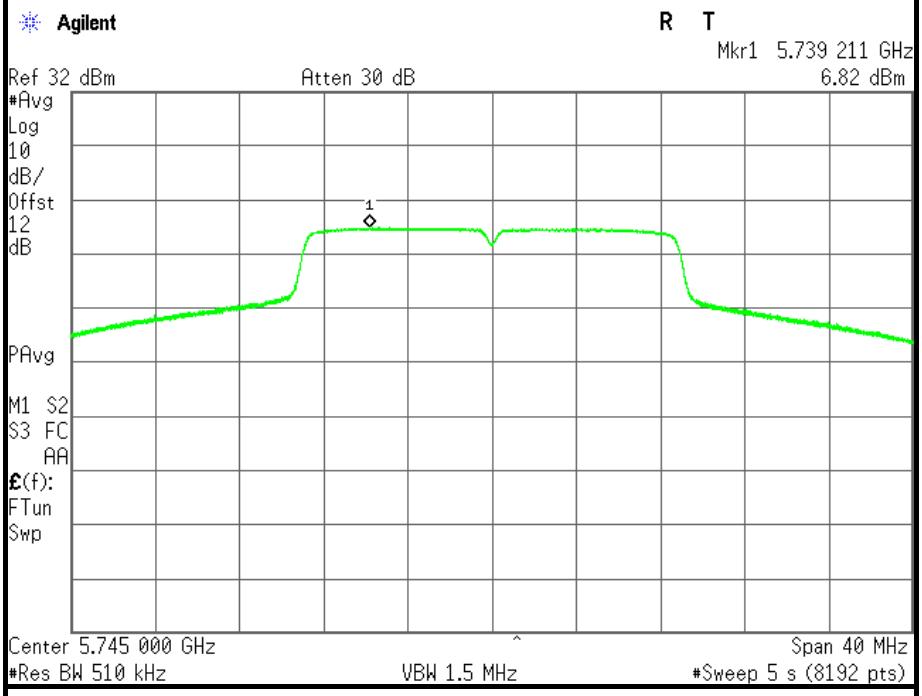
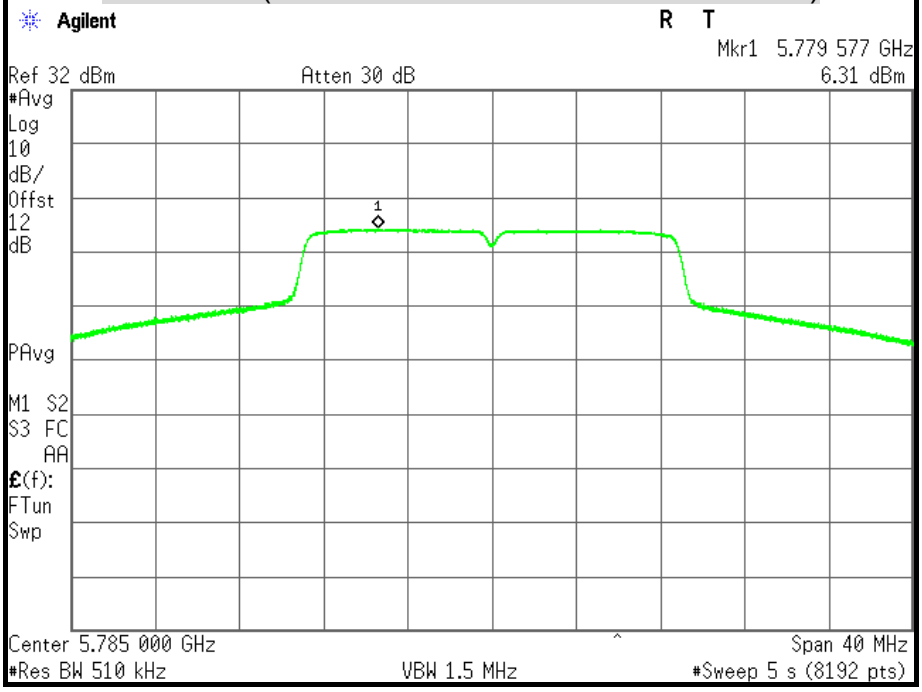
CH Low (IEEE 802.11an Mode HT20 / Band 3)



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



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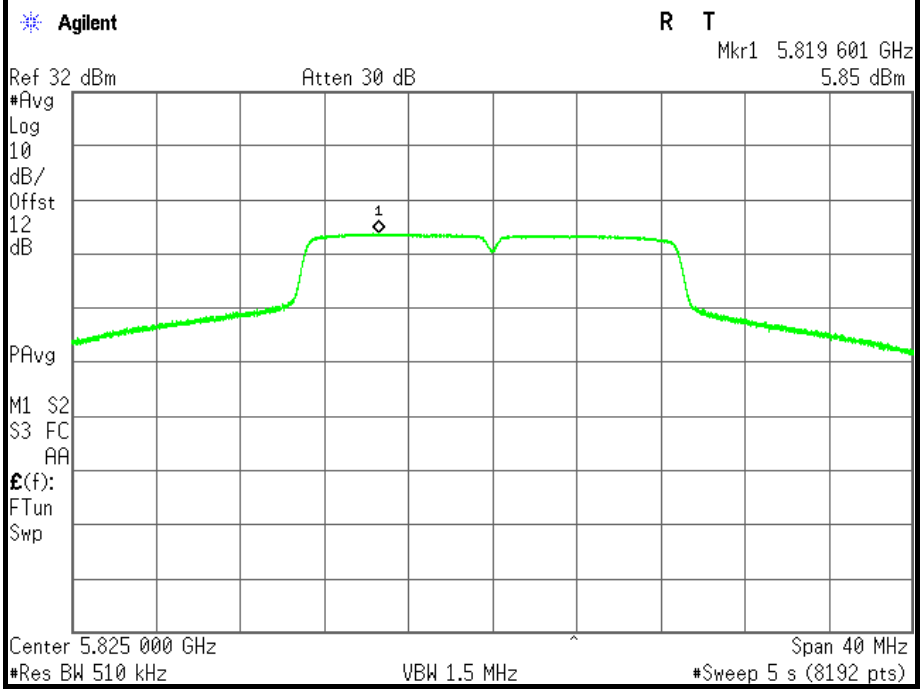
CH High (IEEE 802.11an Mode HT20 / Band 3)



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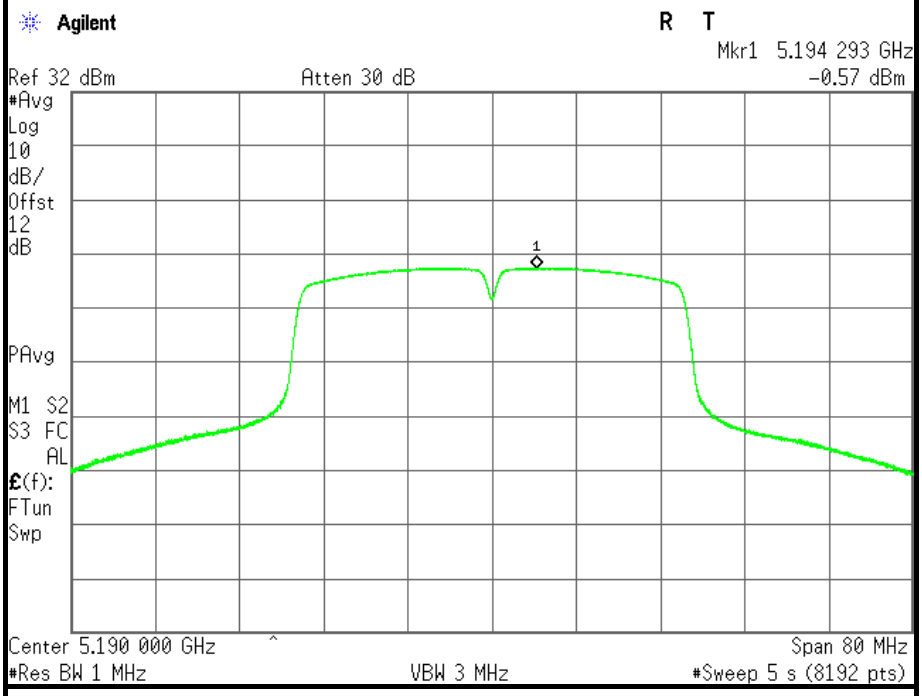
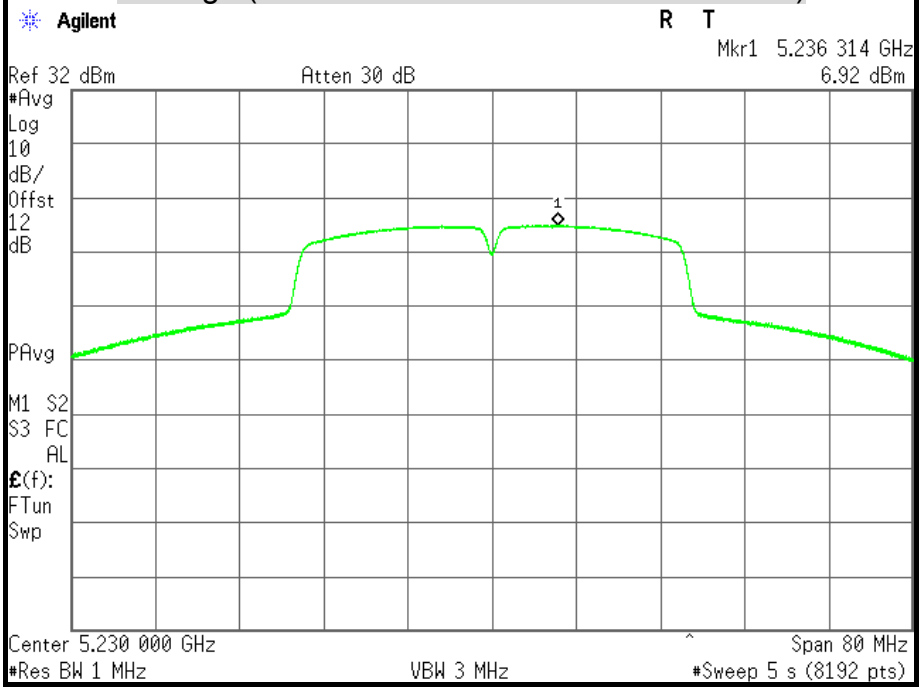
CH Low (IEEE 802.11an Mode HT40 / Band 1)



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



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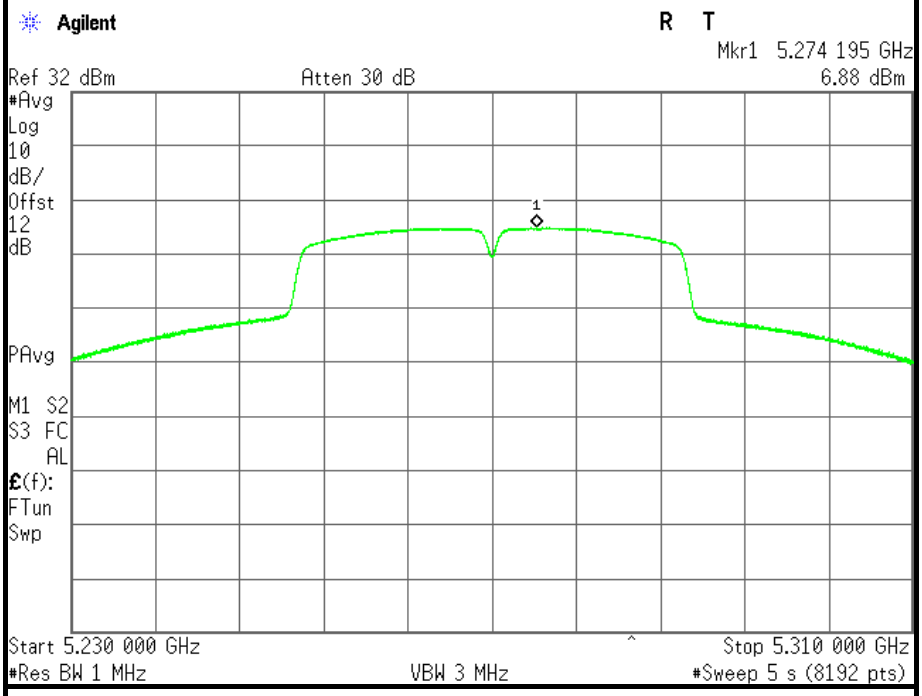
CH Low (IEEE 802.11an Mode HT40 / Band 2A)



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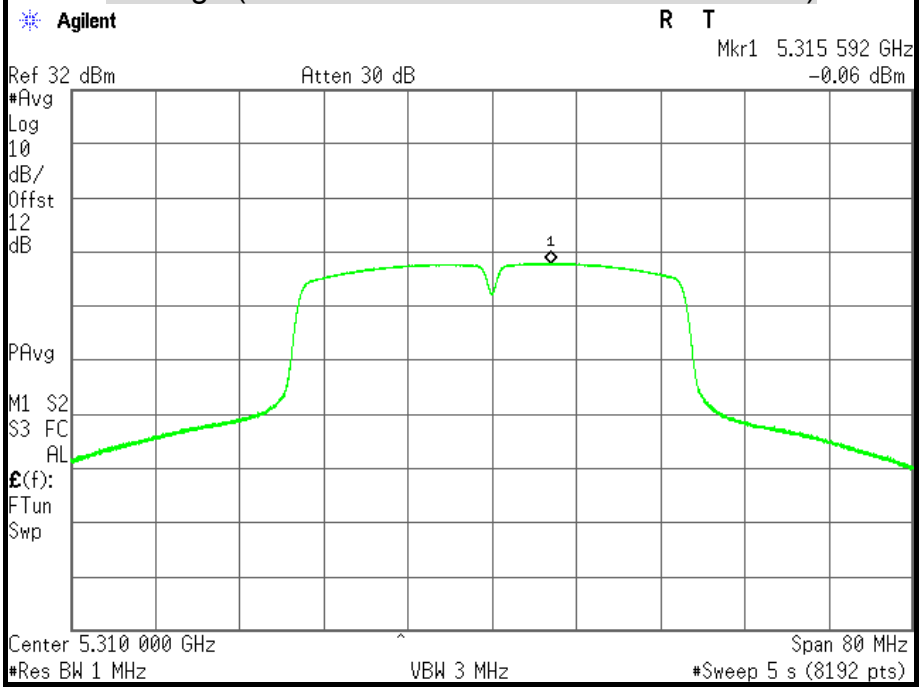

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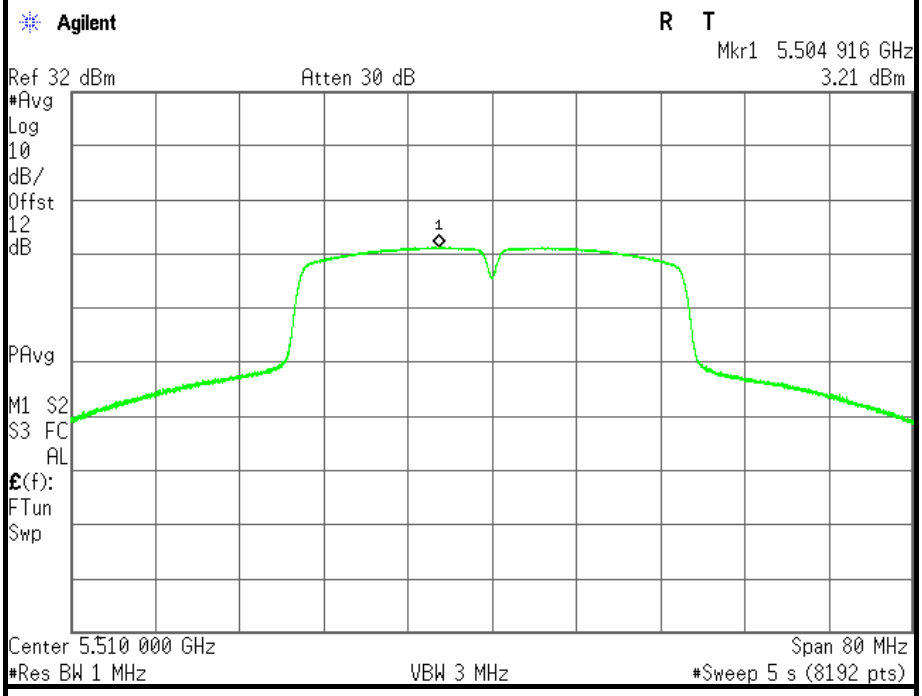
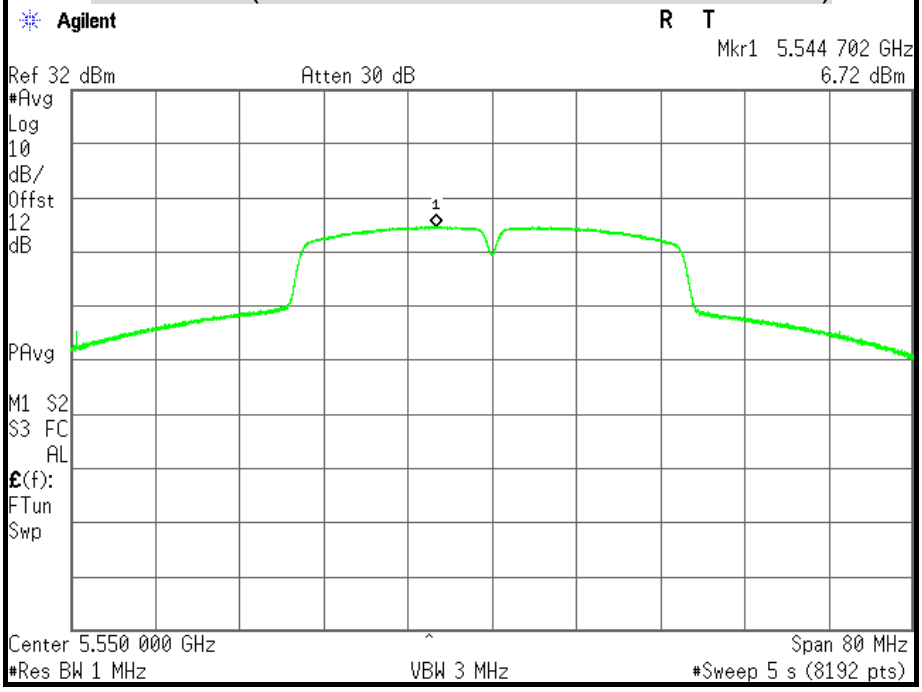
CH Low (IEEE 802.11an Mode HT40 / Band 2C)



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



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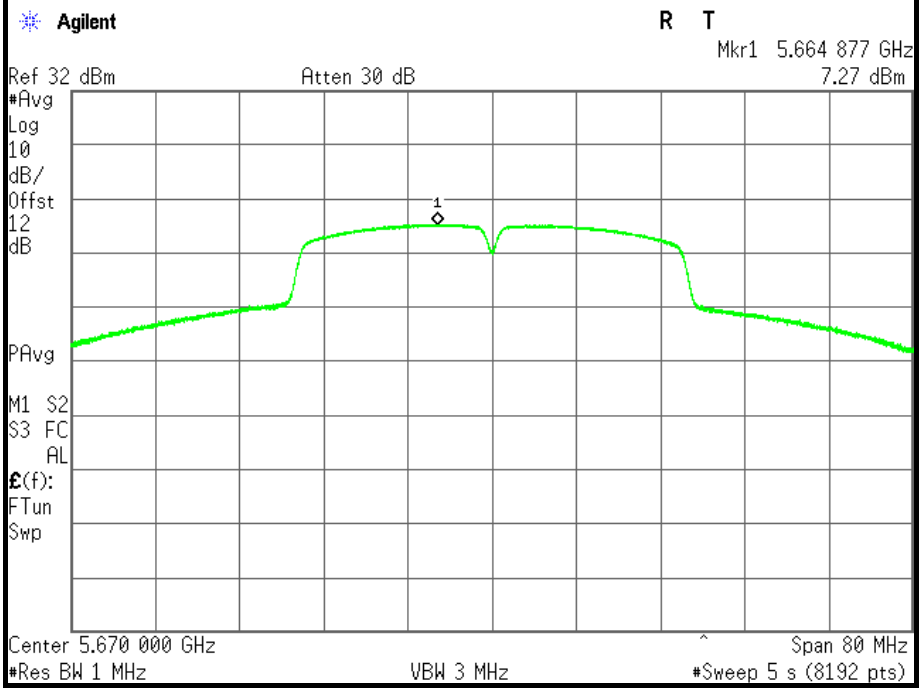
CH High (IEEE 802.11an Mode HT40 / Band 2C)



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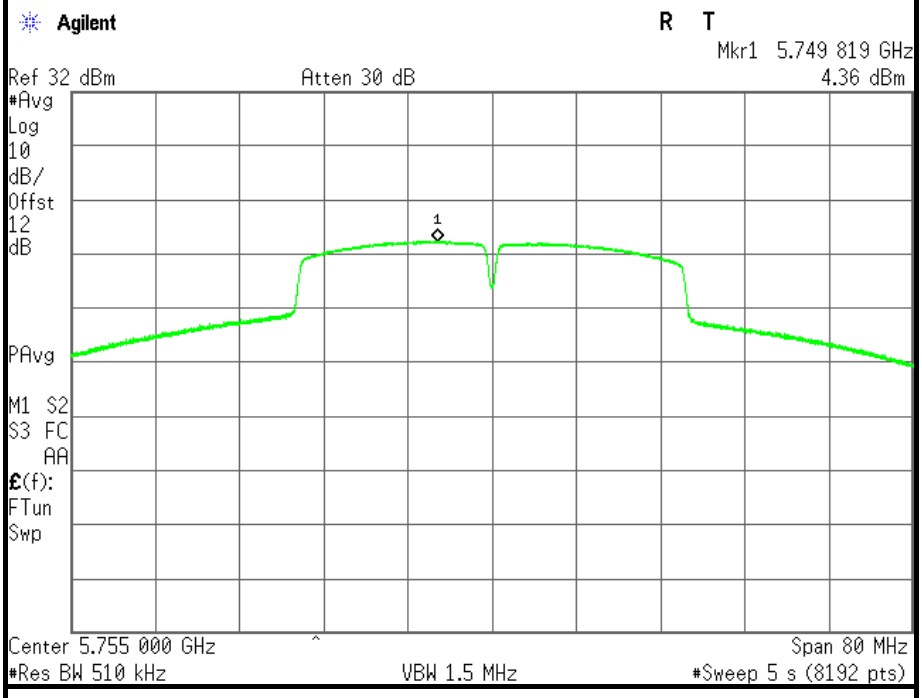
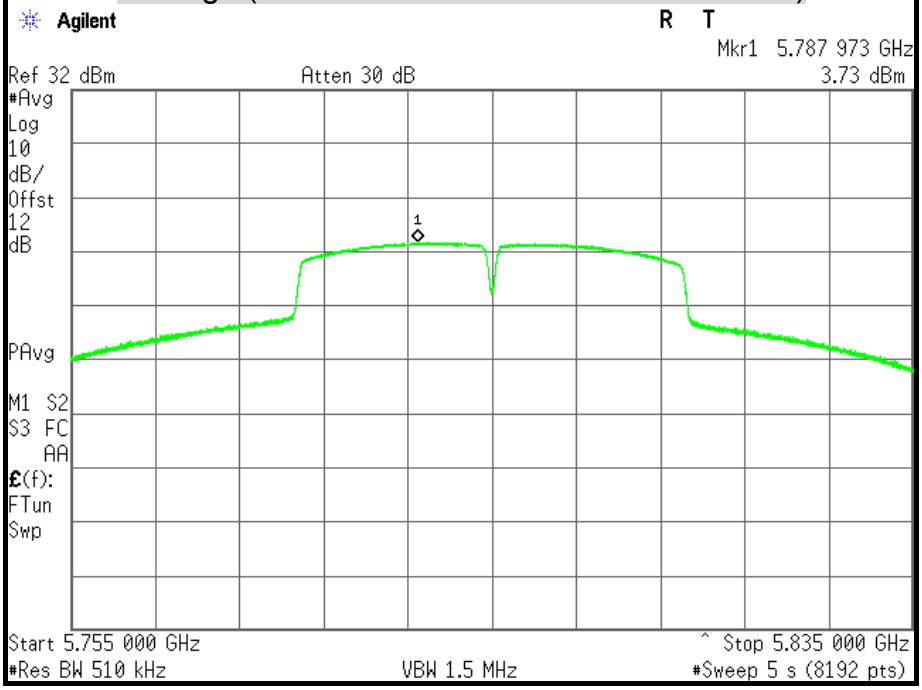
CH Low (IEEE 802.11an Mode HT40 / Band 3)



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



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7.5 RADIATED EMISSION

LIMITS

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

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

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

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

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

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

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

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

TEST EQUIPMENT

Radiated Emission / 966Chamber_B

Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/15/2015
EMI Test Receiver	ROHDE & SCHWARZ	ESCS 30	835418/008	10/14/2015
Bi-log Antenna	SCHWARZBECK	VULB 9168	9168-250	08/21/2015
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	08/19/2015
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	12/05/2014
Horn Antenna	COM-POWER	AH-840	03077	12/18/2014
Pre-Amplifier	Agilent	8447D	2944A10052	07/15/2015
Pre-Amplifier	Agilent	8449B	3008A01916	07/15/2015
LOOP Antenna	EMCO	6502	8905-2356	09/23/2015
Notch Filters Band Reject	Micro-Tronics	BRM05702-01	026	N.C.R.
Band Reject Filter	Micro-Tronics	BRC50703-01	004	N.C.R.
Band Reject Filter	Micro-Tronics	BRC50704-01	004	N.C.R.
Band Reject Filter	Micro-Tronics	BRC50705-01	007	N.C.R.

Remark: *1. Each piece of equipment is scheduled for calibration once a year.*
2. N.C.R = No Calibration Request.

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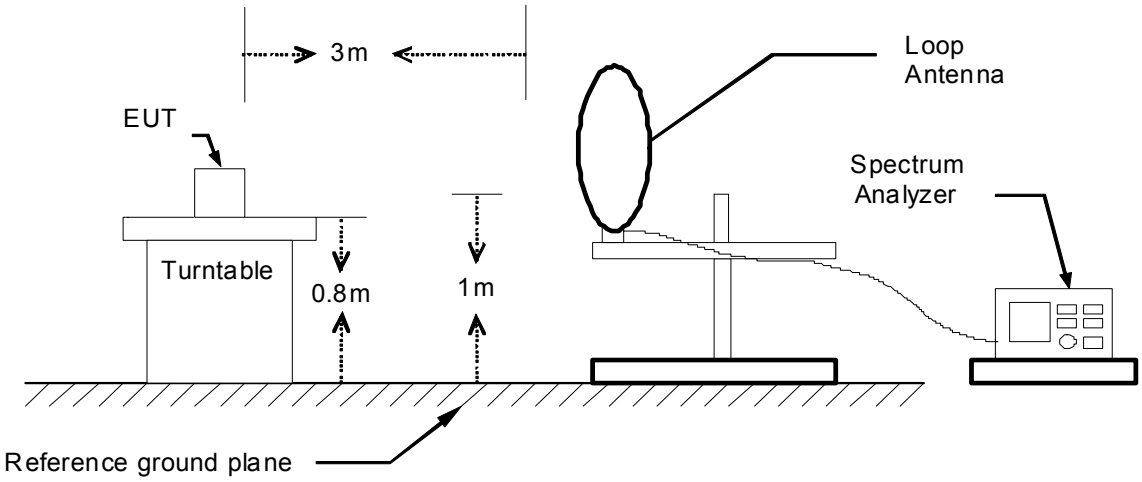
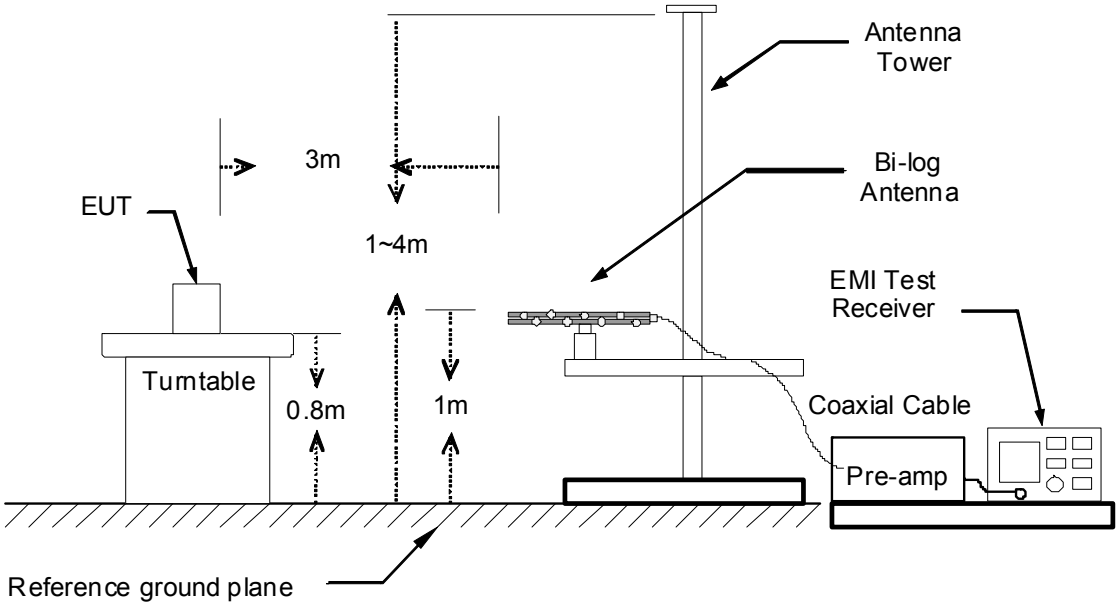
TEST SETUP

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

9kHz ~ 30MHz



30MHz ~ 1GHz



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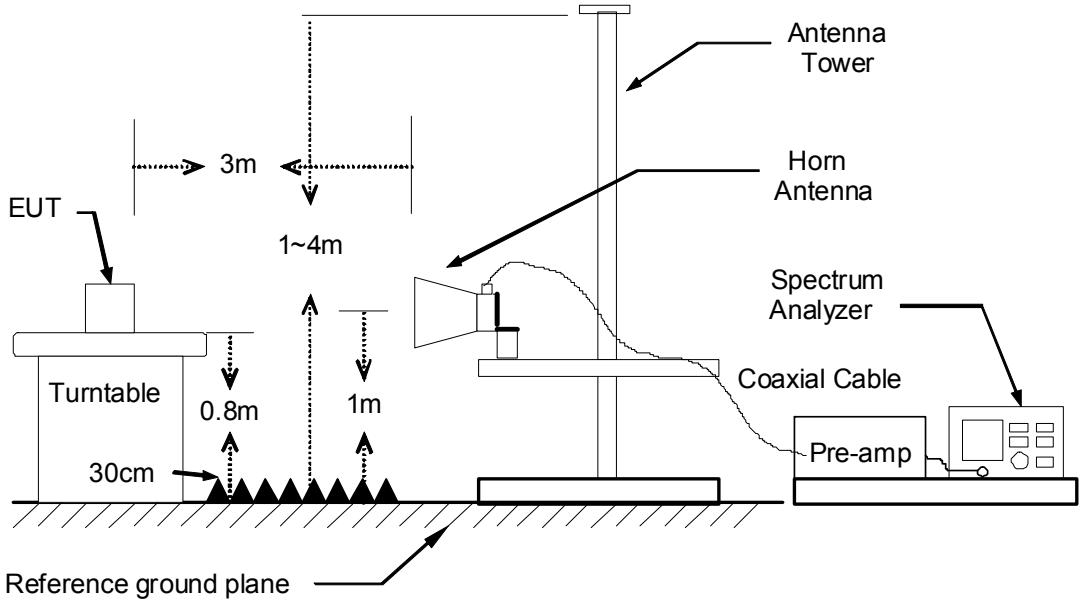
The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

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

Remark：

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

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TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

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

Below 1 GHz (30MHz ~ 1GHz)

Product Name	Computer	**Test By**	Waternil Guan
Test Model	TREK-572	**Test Date**	2014/10/30
Test Mode	TX Mode	**Temp. & Humidity**	27°C, 54%

966 Chamber_B at 3Meter / Horizontal						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
70.74	42.98	-16.53	26.45	40.00	-13.55	Peak
106.63	43.67	-17.79	25.88	43.50	-17.62	Peak
159.01	37.00	-13.43	23.58	43.50	-19.92	Peak
250.19	39.97	-13.71	26.26	46.00	-19.74	Peak
389.87	39.55	-10.12	29.43	46.00	-16.57	Peak
474.26	37.36	-8.53	28.83	46.00	-17.17	Peak
685.72	33.90	-5.02	28.88	46.00	-17.12	Peak
833.16	38.06	-2.45	35.62	46.00	-10.38	Peak

966 Chamber_B at 3Meter / Vertical						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
34.85	51.66	-15.08	36.58	40.00	-3.42	Peak
73.65	49.47	-17.20	32.27	40.00	-7.73	Peak
106.63	44.14	-17.79	26.35	43.50	-17.15	Peak
151.25	32.96	-13.63	19.32	43.50	-24.18	Peak
250.19	36.67	-13.71	22.96	46.00	-23.04	Peak
277.35	36.14	-12.47	23.68	46.00	-22.32	Peak
396.66	35.58	-9.99	25.59	46.00	-20.41	Peak
837.04	33.99	-2.37	31.62	46.00	-14.38	Peak

Remark:

1. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
2. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
3. *Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)*
4. *Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)*
5. *Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).*

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Above 1 GHz

Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11a TX / CH Low	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3075.00	43.05	---	4.92	47.96	---	74.00	54.00	-6.04	Peak
3845.00	42.85	---	6.13	48.98	---	74.00	54.00	-5.02	Peak
5450.00	40.63	---	10.40	51.03	---	74.00	54.00	-2.97	Peak
6096.00	38.21	---	12.73	50.94	---	74.00	54.00	-3.06	Peak
7704.00	38.91	---	13.34	52.25	---	74.00	54.00	-1.75	Peak
9012.00	37.06	---	15.17	52.23	---	74.00	54.00	-1.77	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3235.00	43.21	---	5.18	48.40	---	74.00	54.00	-5.60	Peak
3905.00	42.90	---	6.21	49.12	---	74.00	54.00	-4.88	Peak
5460.00	41.86	---	10.44	52.30	---	74.00	54.00	-1.70	Peak
6132.00	38.14	---	12.71	50.86	---	74.00	54.00	-3.14	Peak
7344.00	38.04	---	13.16	51.20	---	74.00	54.00	-2.80	Peak
8928.00	36.49	---	15.20	51.70	---	74.00	54.00	-2.30	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11a TX / CH Middle	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3200.00	43.33	---	5.13	48.46	---	74.00	54.00	-5.54	Peak
4700.00	42.35	---	8.75	51.10	---	74.00	54.00	-2.90	Peak
5425.00	40.75	---	10.30	51.05	---	74.00	54.00	-2.95	Peak
6300.00	38.95	---	12.64	51.59	---	74.00	54.00	-2.41	Peak
7620.00	38.17	---	13.10	51.27	---	74.00	54.00	-2.73	Peak
8952.00	36.77	---	15.19	51.96	---	74.00	54.00	-2.04	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3735.00	43.20	---	5.97	49.17	---	74.00	54.00	-4.83	Peak
5150.00	46.71	36.94	9.21	55.91	46.15	74.00	54.00	-7.85	AVG
5355.00	41.49	---	10.02	51.51	---	74.00	54.00	-2.49	Peak
6216.00	38.20	---	12.67	50.88	---	74.00	54.00	-3.12	Peak
7704.00	37.58	---	13.34	50.92	---	74.00	54.00	-3.08	Peak
9072.00	37.26	---	15.27	52.52	---	74.00	54.00	-1.48	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11a TX / CH High	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3170.00	43.23	---	5.08	48.30	---	74.00	54.00	-5.70	Peak
4505.00	42.32	---	8.85	51.16	---	74.00	54.00	-2.84	Peak
5440.00	40.16	---	10.36	50.52	---	74.00	54.00	-3.48	Peak
6132.00	38.13	---	12.71	50.84	---	74.00	54.00	-3.16	Peak
7392.00	38.12	---	13.04	51.16	---	74.00	54.00	-2.84	Peak
8952.00	37.18	---	15.19	52.37	---	74.00	54.00	-1.63	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3130.00	42.48	---	5.01	47.49	---	74.00	54.00	-6.51	Peak
4615.00	42.54	---	8.79	51.33	---	74.00	54.00	-2.67	Peak
5450.00	40.86	---	10.40	51.26	---	74.00	54.00	-2.74	Peak
6144.00	38.56	---	12.71	51.26	---	74.00	54.00	-2.74	Peak
7884.00	37.47	---	13.86	51.33	---	74.00	54.00	-2.67	Peak
9036.00	36.74	---	15.21	51.95	---	74.00	54.00	-2.05	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11an HT20 TX / CH Low	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3210.00	43.72	---	5.14	48.86	---	74.00	54.00	-5.14	Peak
3790.00	42.79	---	6.05	48.84	---	74.00	54.00	-5.16	Peak
5445.00	40.96	---	10.38	51.34	---	74.00	54.00	-2.66	Peak
6048.00	38.68	---	12.75	51.43	---	74.00	54.00	-2.57	Peak
7392.00	38.01	---	13.04	51.04	---	74.00	54.00	-2.96	Peak
9024.00	36.24	---	15.19	51.42	---	74.00	54.00	-2.58	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
2415.00	43.19	---	3.44	46.63	---	74.00	54.00	-7.37	Peak
3175.00	43.76	---	5.08	48.84	---	74.00	54.00	-5.16	Peak
5410.00	40.21	---	10.24	50.45	---	74.00	54.00	-3.55	Peak
6216.00	38.14	---	12.67	50.82	---	74.00	54.00	-3.18	Peak
7620.00	38.42	---	13.10	51.52	---	74.00	54.00	-2.48	Peak
8988.00	36.68	---	15.16	51.84	---	74.00	54.00	-2.16	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11an HT20 TX / CH Middle	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3750.00	43.05	---	5.99	49.04	---	74.00	54.00	-4.96	Peak
5150.00	47.12	37.56	9.21	56.33	46.77	74.00	54.00	-7.23	AVG
5460.00	40.90	---	10.44	51.34	---	74.00	54.00	-2.66	Peak
6108.00	38.02	---	12.72	50.74	---	74.00	54.00	-3.26	Peak
7452.00	37.93	---	12.88	50.81	---	74.00	54.00	-3.19	Peak
9132.00	36.44	---	15.36	51.81	---	74.00	54.00	-2.19	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3670.00	43.00	---	5.87	48.87	---	74.00	54.00	-5.13	Peak
5150.00	48.83	38.97	9.21	58.04	48.18	74.00	54.00	-5.82	AVG
5385.00	40.10	---	10.14	50.24	---	74.00	54.00	-3.76	Peak
6096.00	38.54	---	12.73	51.27	---	74.00	54.00	-2.73	Peak
7512.00	38.19	---	12.78	50.98	---	74.00	54.00	-3.02	Peak
8856.00	37.05	---	15.26	52.31	---	74.00	54.00	-1.69	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11an HT20 TX / CH High	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3125.00	43.69	---	5.00	48.69	---	74.00	54.00	-5.31	Peak
4705.00	42.99	---	8.75	51.74	---	74.00	54.00	-2.26	Peak
5445.00	39.51	---	10.38	49.89	---	74.00	54.00	-4.11	Peak
6036.00	38.18	---	12.75	50.94	---	74.00	54.00	-3.06	Peak
7476.00	37.89	---	12.81	50.71	---	74.00	54.00	-3.29	Peak
8940.00	36.85	---	15.20	52.05	---	74.00	54.00	-1.95	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3785.00	43.02	---	6.04	49.06	---	74.00	54.00	-4.94	Peak
4625.00	41.92	---	8.79	50.71	---	74.00	54.00	-3.29	Peak
5450.00	41.27	---	10.40	51.67	---	74.00	54.00	-2.33	Peak
6012.00	38.06	---	12.76	50.83	---	74.00	54.00	-3.17	Peak
7452.00	37.96	---	12.88	50.83	---	74.00	54.00	-3.17	Peak
9036.00	36.55	---	15.21	51.76	---	74.00	54.00	-2.24	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11an HT40 TX / CH Low	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3180.00	44.03	---	5.09	49.12	---	74.00	54.00	-4.88	Peak
3830.00	43.04	---	6.11	49.14	---	74.00	54.00	-4.86	Peak
5405.00	40.56	---	10.22	50.78	---	74.00	54.00	-3.22	Peak
6048.00	38.61	---	12.75	51.36	---	74.00	54.00	-2.64	Peak
7404.00	38.11	---	13.00	51.11	---	74.00	54.00	-2.89	Peak
8832.00	37.15	---	15.28	52.42	---	74.00	54.00	-1.58	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3275.00	43.70	---	5.25	48.95	---	74.00	54.00	-5.05	Peak
3870.00	43.20	---	6.16	49.37	---	74.00	54.00	-4.63	Peak
5460.00	41.07	---	10.44	51.51	---	74.00	54.00	-2.49	Peak
6048.00	38.85	---	12.75	51.60	---	74.00	54.00	-2.40	Peak
7728.00	38.85	---	13.41	52.26	---	74.00	54.00	-1.74	Peak
9072.00	36.95	---	15.27	52.22	---	74.00	54.00	-1.78	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 1/ IEEE 802.11an HT40 TX / CH High	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3335.00	42.58	---	5.35	47.93	---	74.00	54.00	-6.07	Peak
5150.00	48.52	38.76	9.21	57.73	47.97	74.00	54.00	-6.03	AVG
5350.00	40.70	---	10.00	50.70	---	74.00	54.00	-3.30	Peak
6048.00	39.19	---	12.75	51.94	---	74.00	54.00	-2.06	Peak
7584.00	37.79	---	12.99	50.79	---	74.00	54.00	-3.21	Peak
8928.00	37.00	---	15.20	52.20	---	74.00	54.00	-1.80	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3755.00	42.83	---	6.00	48.82	---	74.00	54.00	-5.18	Peak
5150.00	55.68	44.28	9.21	64.89	53.49	74.00	54.00	-0.51	AVG
5350.00	45.17	35.26	10.00	55.17	45.26	74.00	54.00	-8.74	AVG
6192.00	38.04	---	12.69	50.73	---	74.00	54.00	-3.27	Peak
7668.00	38.37	---	13.24	51.61	---	74.00	54.00	-2.39	Peak
9060.00	37.19	---	15.25	52.44	---	74.00	54.00	-1.56	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11a TX / CH Low	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3225.00	43.20	---	5.17	48.37	---	74.00	54.00	-5.63	Peak
4710.00	41.85	---	8.75	50.60	---	74.00	54.00	-3.40	Peak
5425.00	41.26	---	10.30	51.56	---	74.00	54.00	-2.44	Peak
6132.00	38.41	---	12.71	51.12	---	74.00	54.00	-2.88	Peak
7752.00	38.27	---	13.48	51.75	---	74.00	54.00	-2.25	Peak
8868.00	36.42	---	15.25	51.67	---	74.00	54.00	-2.33	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3205.00	43.82	---	5.13	48.96	---	74.00	54.00	-5.04	Peak
4785.00	42.60	---	8.71	51.31	---	74.00	54.00	-2.69	Peak
5455.00	40.23	---	10.42	50.65	---	74.00	54.00	-3.35	Peak
6060.00	37.55	---	12.74	50.29	---	74.00	54.00	-3.71	Peak
7368.00	38.44	---	13.10	51.54	---	74.00	54.00	-2.46	Peak
8976.00	35.99	---	15.17	51.16	---	74.00	54.00	-2.84	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11a TX / CH Middle	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3100.00	43.48	---	4.96	48.44	---	74.00	54.00	-5.56	Peak
4530.00	41.92	---	8.84	50.75	---	74.00	54.00	-3.25	Peak
5375.00	41.42	---	10.10	51.52	---	74.00	54.00	-2.48	Peak
6096.00	37.94	---	12.73	50.67	---	74.00	54.00	-3.33	Peak
7368.00	37.63	---	13.10	50.73	---	74.00	54.00	-3.27	Peak
8844.00	36.63	---	15.27	51.90	---	74.00	54.00	-2.10	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3850.00	43.17	---	6.13	49.30	---	74.00	54.00	-4.70	Peak
4635.00	42.74	---	8.79	51.52	---	74.00	54.00	-2.48	Peak
5455.00	40.99	---	10.42	51.41	---	74.00	54.00	-2.59	Peak
6012.00	37.99	---	12.76	50.76	---	74.00	54.00	-3.24	Peak
7296.00	38.51	---	13.29	51.80	---	74.00	54.00	-2.20	Peak
8232.00	36.75	---	14.82	51.57	---	74.00	54.00	-2.43	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11a TX / CH High	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
2520.00	43.29	---	3.66	46.95	---	74.00	54.00	-7.05	Peak
3270.00	43.45	---	5.24	48.69	---	74.00	54.00	-5.31	Peak
4635.00	42.48	---	8.79	51.27	---	74.00	54.00	-2.73	Peak
6096.00	37.98	---	12.73	50.71	---	74.00	54.00	-3.29	Peak
7680.00	38.17	---	13.27	51.44	---	74.00	54.00	-2.56	Peak
8892.00	35.87	---	15.23	51.11	---	74.00	54.00	-2.89	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
2000.00	42.52	---	2.63	45.15	---	74.00	54.00	-8.85	Peak
3150.00	43.68	---	5.04	48.72	---	74.00	54.00	-5.28	Peak
4570.00	41.55	---	8.82	50.37	---	74.00	54.00	-3.63	Peak
6192.00	37.43	---	12.69	50.11	---	74.00	54.00	-3.89	Peak
7608.00	37.65	---	13.06	50.71	---	74.00	54.00	-3.29	Peak
9000.00	37.02	---	15.15	52.17	---	74.00	54.00	-1.83	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11an HT20 TX / CH Low	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3320.00	43.33	---	5.33	48.66	---	74.00	54.00	-5.34	Peak
4600.00	41.89	---	8.80	50.69	---	74.00	54.00	-3.31	Peak
5450.00	40.39	---	10.40	50.79	---	74.00	54.00	-3.21	Peak
6144.00	38.18	---	12.71	50.89	---	74.00	54.00	-3.11	Peak
7416.00	38.21	---	12.97	51.18	---	74.00	54.00	-2.82	Peak
8892.00	37.28	---	15.23	52.51	---	74.00	54.00	-1.49	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3915.00	42.89	---	6.23	49.12	---	74.00	54.00	-4.88	Peak
4625.00	42.37	---	8.79	51.16	---	74.00	54.00	-2.84	Peak
5425.00	42.84	32.96	10.30	53.14	43.26	74.00	54.00	-10.74	AVG
6288.00	38.36	---	12.64	51.00	---	74.00	54.00	-3.00	Peak
7548.00	37.49	---	12.89	50.38	---	74.00	54.00	-3.62	Peak
9024.00	36.74	---	15.19	51.93	---	74.00	54.00	-2.07	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11an HT20 TX / CH Middle	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3785.00	43.87	---	6.04	49.91	---	74.00	54.00	-4.09	Peak
4685.00	42.00	---	8.76	50.76	---	74.00	54.00	-3.24	Peak
5360.00	40.65	---	10.04	50.69	---	74.00	54.00	-3.31	Peak
6180.00	38.37	---	12.69	51.06	---	74.00	54.00	-2.94	Peak
7920.00	37.20	---	13.97	51.17	---	74.00	54.00	-2.83	Peak
9120.00	36.66	---	15.34	52.01	---	74.00	54.00	-1.99	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3905.00	43.13	---	6.21	49.34	---	74.00	54.00	-4.66	Peak
4745.00	42.73	---	8.73	51.46	---	74.00	54.00	-2.54	Peak
5355.00	44.58	34.78	10.02	54.61	44.80	74.00	54.00	-9.20	AVG
6156.00	38.37	---	12.70	51.08	---	74.00	54.00	-2.92	Peak
7524.00	38.06	---	12.82	50.88	---	74.00	54.00	-3.12	Peak
8976.00	36.68	---	15.17	51.84	---	74.00	54.00	-2.16	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11an HT20 TX / CH High	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3205.00	43.71	---	5.13	48.85	---	74.00	54.00	-5.15	Peak
3885.00	43.36	---	6.18	49.54	---	74.00	54.00	-4.46	Peak
4760.00	42.36	---	8.73	51.09	---	74.00	54.00	-2.91	Peak
6084.00	39.33	---	12.73	52.06	---	74.00	54.00	-1.94	Peak
7716.00	37.84	---	13.38	51.21	---	74.00	54.00	-2.79	Peak
9036.00	36.70	---	15.21	51.91	---	74.00	54.00	-2.09	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3185.00	43.62	---	5.10	48.72	---	74.00	54.00	-5.28	Peak
3905.00	43.33	---	6.21	49.55	---	74.00	54.00	-4.45	Peak
4665.00	41.99	---	8.77	50.76	---	74.00	54.00	-3.24	Peak
6048.00	38.82	---	12.75	51.57	---	74.00	54.00	-2.43	Peak
7584.00	38.87	---	12.99	51.86	---	74.00	54.00	-2.14	Peak
9120.00	37.02	---	15.34	52.36	---	74.00	54.00	-1.64	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11an HT40 TX / CH Low	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3250.00	43.72	---	5.21	48.93	---	74.00	54.00	-5.07	Peak
4640.00	42.77	---	8.78	51.55	---	74.00	54.00	-2.45	Peak
5350.00	50.97	38.16	10.00	60.98	48.16	74.00	54.00	-5.84	AVG
6252.00	39.37	---	12.66	52.03	---	74.00	54.00	-1.97	Peak
7752.00	38.54	---	13.48	52.02	---	74.00	54.00	-1.98	Peak
9096.00	37.04	---	15.31	52.34	---	74.00	54.00	-1.66	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3810.00	43.28	---	6.08	49.35	---	74.00	54.00	-4.65	Peak
5150.00	45.61	35.79	9.21	54.82	45.00	74.00	54.00	-9.00	AVG
5350.00	57.06	42.70	10.00	67.07	52.70	74.00	54.00	-1.30	AVG
6120.00	38.78	---	12.72	51.50	---	74.00	54.00	-2.50	Peak
7428.00	38.50	---	12.94	51.44	---	74.00	54.00	-2.56	Peak
9012.00	36.95	---	15.17	52.12	---	74.00	54.00	-1.88	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/25
Test Mode	UNII Band 2A / IEEE 802.11an HT40 TX / CH High	Temp. & Humidity	22°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3195.00	43.92	---	5.12	49.04	---	74.00	54.00	-4.96	Peak
3780.00	43.07	---	6.03	49.10	---	74.00	54.00	-4.90	Peak
4615.00	42.78	---	8.79	51.58	---	74.00	54.00	-2.42	Peak
6156.00	38.43	---	12.70	51.13	---	74.00	54.00	-2.87	Peak
7464.00	38.62	---	12.85	51.46	---	74.00	54.00	-2.54	Peak
9072.00	36.35	---	15.27	51.62	---	74.00	54.00	-2.38	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3255.00	43.20	---	5.22	48.42	---	74.00	54.00	-5.58	Peak
3955.00	43.06	---	6.29	49.35	---	74.00	54.00	-4.65	Peak
4685.00	42.24	---	8.76	51.00	---	74.00	54.00	-3.00	Peak
6120.00	38.02	---	12.72	50.74	---	74.00	54.00	-3.26	Peak
7872.00	37.76	---	13.83	51.58	---	74.00	54.00	-2.42	Peak
8976.00	36.04	---	15.17	51.21	---	74.00	54.00	-2.79	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11a TX / CH Low	Temp. & Humidity	24˚C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1160.00	48.03	---	-2.05	45.98	---	74.00	54.00	-8.02	Peak
3165.00	44.45	---	5.07	49.51	---	74.00	54.00	-4.49	Peak
4630.00	41.52	---	8.79	50.30	---	74.00	54.00	-3.70	Peak
6108.00	39.07	---	12.72	51.80	---	74.00	54.00	-2.20	Peak
7452.00	38.10	---	12.88	50.98	---	74.00	54.00	-3.02	Peak
9132.00	36.61	---	15.36	51.97	---	74.00	54.00	-2.03	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
2325.00	43.11	---	3.27	46.38	---	74.00	54.00	-7.62	Peak
3165.00	44.18	---	5.07	49.25	---	74.00	54.00	-4.75	Peak
4595.00	41.71	---	8.80	50.51	---	74.00	54.00	-3.49	Peak
6108.00	38.60	---	12.72	51.32	---	74.00	54.00	-2.68	Peak
7620.00	38.49	---	13.10	51.59	---	74.00	54.00	-2.41	Peak
8880.00	37.24	---	15.24	52.49	---	74.00	54.00	-1.51	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11a TX / CH Middle	Temp. & Humidity	24˚C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3090.00	43.00	---	4.94	47.94	---	74.00	54.00	-6.06	Peak
4630.00	42.33	---	8.79	51.12	---	74.00	54.00	-2.88	Peak
5355.00	40.14	---	10.02	50.16	---	74.00	54.00	-3.84	Peak
6108.00	39.43	---	12.72	52.15	---	74.00	54.00	-1.85	Peak
7728.00	38.13	---	13.41	51.54	---	74.00	54.00	-2.46	Peak
8988.00	36.90	---	15.16	52.06	---	74.00	54.00	-1.94	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3780.00	43.25	---	6.03	49.29	---	74.00	54.00	-4.71	Peak
4580.00	41.64	---	8.81	50.46	---	74.00	54.00	-3.54	Peak
5440.00	41.40	---	10.36	51.77	---	74.00	54.00	-2.23	Peak
6036.00	38.72	---	12.75	51.47	---	74.00	54.00	-2.53	Peak
7740.00	38.05	---	13.45	51.49	---	74.00	54.00	-2.51	Peak
9180.00	36.86	---	15.44	52.30	---	74.00	54.00	-1.70	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11a TX / CH High	Temp. & Humidity	24˚C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3080.00	43.94	---	4.92	48.87	---	74.00	54.00	-5.13	Peak
4660.00	42.72	---	8.77	51.49	---	74.00	54.00	-2.51	Peak
5455.00	40.66	---	10.42	51.08	---	74.00	54.00	-2.92	Peak
6120.00	38.50	---	12.72	51.21	---	74.00	54.00	-2.79	Peak
7788.00	38.07	---	13.59	51.65	---	74.00	54.00	-2.35	Peak
8952.00	36.79	---	15.19	51.97	---	74.00	54.00	-2.03	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3295.00	43.40	---	5.29	48.68	---	74.00	54.00	-5.32	Peak
4730.00	42.83	---	8.74	51.57	---	74.00	54.00	-2.43	Peak
5445.00	40.37	---	10.38	50.75	---	74.00	54.00	-3.25	Peak
6132.00	39.46	---	12.71	52.17	---	74.00	54.00	-1.83	Peak
7776.00	37.75	---	13.55	51.30	---	74.00	54.00	-2.70	Peak
9120.00	36.66	---	15.34	52.00	---	74.00	54.00	-2.00	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11an HT20 TX / CH Low	Temp. & Humidity	24˚C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1100.00	48.88	---	-2.06	46.82	---	74.00	54.00	-7.18	Peak
3660.00	42.93	---	5.86	48.79	---	74.00	54.00	-5.21	Peak
4700.00	41.99	---	8.75	50.74	---	74.00	54.00	-3.26	Peak
6204.00	38.59	---	12.68	51.27	---	74.00	54.00	-2.73	Peak
7596.00	38.12	---	13.03	51.15	---	74.00	54.00	-2.85	Peak
9108.00	35.89	---	15.32	51.21	---	74.00	54.00	-2.79	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3175.00	43.21	---	5.08	48.29	---	74.00	54.00	-5.71	Peak
3945.00	43.25	---	6.27	49.53	---	74.00	54.00	-4.47	Peak
4590.00	41.65	---	8.81	50.46	---	74.00	54.00	-3.54	Peak
6324.00	39.84	---	12.63	52.46	---	74.00	54.00	-1.54	Peak
7632.00	38.18	---	13.13	51.31	---	74.00	54.00	-2.69	Peak
9156.00	36.92	---	15.40	52.33	---	74.00	54.00	-1.67	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11an HT20 TX / CH Middle	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3155.00	43.24	---	5.05	48.29	---	74.00	54.00	-5.71	Peak
4650.00	41.21	---	8.78	49.99	---	74.00	54.00	-4.01	Peak
5415.00	40.64	---	10.26	50.90	---	74.00	54.00	-3.10	Peak
6132.00	38.15	---	12.71	50.86	---	74.00	54.00	-3.14	Peak
7440.00	38.63	---	12.91	51.54	---	74.00	54.00	-2.46	Peak
8976.00	36.15	---	15.17	51.32	---	74.00	54.00	-2.68	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
4010.00	43.29	---	6.40	49.69	---	74.00	54.00	-4.31	Peak
4590.00	42.41	---	8.81	51.22	---	74.00	54.00	-2.78	Peak
5405.00	41.33	---	10.22	51.55	---	74.00	54.00	-2.45	Peak
6312.00	38.08	---	12.63	50.72	---	74.00	54.00	-3.28	Peak
7620.00	38.84	---	13.10	51.93	---	74.00	54.00	-2.07	Peak
8892.00	37.09	---	15.23	52.32	---	74.00	54.00	-1.68	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11an HT20 TX / CH High	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3205.00	43.59	---	5.13	48.72	---	74.00	54.00	-5.28	Peak
4745.00	42.10	---	8.73	50.84	---	74.00	54.00	-3.16	Peak
5395.00	39.73	---	10.18	49.91	---	74.00	54.00	-4.09	Peak
6048.00	38.49	---	12.75	51.24	---	74.00	54.00	-2.76	Peak
7440.00	39.18	---	12.91	52.09	---	74.00	54.00	-1.91	Peak
9060.00	37.09	---	15.25	52.34	---	74.00	54.00	-1.66	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3165.00	43.50	---	5.07	48.56	---	74.00	54.00	-5.44	Peak
4655.00	42.38	---	8.78	51.16	---	74.00	54.00	-2.84	Peak
5375.00	40.68	---	10.10	50.79	---	74.00	54.00	-3.21	Peak
6132.00	38.39	---	12.71	51.11	---	74.00	54.00	-2.89	Peak
7404.00	37.79	---	13.00	50.80	---	74.00	54.00	-3.20	Peak
8256.00	36.86	---	14.88	51.74	---	74.00	54.00	-2.26	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11an HT40 TX / CH Low	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1200.00	52.28	---	-2.05	50.24	---	74.00	54.00	-3.76	Peak
3880.00	43.75	---	6.18	49.92	---	74.00	54.00	-4.08	Peak
4695.00	41.57	---	8.76	50.33	---	74.00	54.00	-3.67	Peak
6168.00	37.92	---	12.70	50.61	---	74.00	54.00	-3.39	Peak
7752.00	38.46	---	13.48	51.94	---	74.00	54.00	-2.06	Peak
9048.00	37.08	---	15.23	52.31	---	74.00	54.00	-1.69	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3160.00	42.94	---	5.06	47.99	---	74.00	54.00	-6.01	Peak
3840.00	42.66	---	6.12	48.78	---	74.00	54.00	-5.22	Peak
4670.00	42.17	---	8.77	50.94	---	74.00	54.00	-3.06	Peak
6132.00	38.52	---	12.71	51.24	---	74.00	54.00	-2.76	Peak
7404.00	38.14	---	13.00	51.14	---	74.00	54.00	-2.86	Peak
8940.00	37.27	---	15.20	52.47	---	74.00	54.00	-1.53	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11an HT40 TX / CH Middle	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3825.00	43.27	---	6.10	49.37	---	74.00	54.00	-4.63	Peak
4690.00	42.10	---	8.76	50.86	---	74.00	54.00	-3.14	Peak
5460.00	51.43	36.52	10.44	61.87	46.96	74.00	54.00	-7.04	AVG
6144.00	38.78	---	12.71	51.49	---	74.00	54.00	-2.51	Peak
7764.00	37.67	---	13.52	51.19	---	74.00	54.00	-2.81	Peak
9012.00	37.21	---	15.17	52.38	---	74.00	54.00	-1.62	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3300.00	43.03	---	5.29	48.32	---	74.00	54.00	-5.68	Peak
4665.00	41.93	---	8.77	50.70	---	74.00	54.00	-3.30	Peak
5460.00	56.88	41.72	10.44	67.32	52.16	74.00	54.00	-1.84	AVG
6108.00	38.17	---	12.72	50.90	---	74.00	54.00	-3.10	Peak
7512.00	38.72	---	12.78	51.50	---	74.00	54.00	-2.50	Peak
8988.00	37.18	---	15.16	52.34	---	74.00	54.00	-1.66	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 2C / IEEE 802.11an HT40 TX / CH High	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3080.00	43.87	---	4.92	48.79	---	74.00	54.00	-5.21	Peak
4690.00	41.66	---	8.76	50.42	---	74.00	54.00	-3.58	Peak
5435.00	40.54	---	10.34	50.88	---	74.00	54.00	-3.12	Peak
6012.00	38.39	---	12.76	51.16	---	74.00	54.00	-2.84	Peak
7776.00	37.72	---	13.55	51.27	---	74.00	54.00	-2.73	Peak
8892.00	37.12	---	15.23	52.35	---	74.00	54.00	-1.65	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3840.00	43.27	---	6.12	49.39	---	74.00	54.00	-4.61	Peak
4665.00	42.25	---	8.77	51.02	---	74.00	54.00	-2.98	Peak
5440.00	40.50	---	10.36	50.86	---	74.00	54.00	-3.14	Peak
6276.00	38.08	---	12.65	50.73	---	74.00	54.00	-3.27	Peak
7668.00	37.99	---	13.24	51.22	---	74.00	54.00	-2.78	Peak
8964.00	36.73	---	15.18	51.90	---	74.00	54.00	-2.10	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11a TX / CH Low	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3155.00	43.24	---	5.05	48.29	---	74.00	54.00	-5.71	Peak
4615.00	41.95	---	8.79	50.75	---	74.00	54.00	-3.25	Peak
5370.00	40.38	---	10.08	50.47	---	74.00	54.00	-3.53	Peak
6060.00	38.12	---	12.74	50.86	---	74.00	54.00	-3.14	Peak
7752.00	38.47	---	13.48	51.95	---	74.00	54.00	-2.05	Peak
9060.00	37.25	---	15.25	52.50	---	74.00	54.00	-1.50	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3230.00	43.63	---	5.18	48.81	---	74.00	54.00	-5.19	Peak
4660.00	42.45	---	8.77	51.22	---	74.00	54.00	-2.78	Peak
5370.00	41.03	---	10.08	51.11	---	74.00	54.00	-2.89	Peak
6036.00	38.15	---	12.75	50.91	---	74.00	54.00	-3.09	Peak
7728.00	37.70	---	13.41	51.11	---	74.00	54.00	-2.89	Peak
9072.00	37.30	---	15.27	52.57	---	74.00	54.00	-1.43	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11a TX / CH Middle	Temp. & Humidity	24˚C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3145.00	43.85	---	5.03	48.89	---	74.00	54.00	-5.11	Peak
4590.00	42.16	---	8.81	50.97	---	74.00	54.00	-3.03	Peak
5440.00	40.90	---	10.36	51.26	---	74.00	54.00	-2.74	Peak
6084.00	39.57	---	12.73	52.31	---	74.00	54.00	-1.69	Peak
7452.00	38.41	---	12.88	51.28	---	74.00	54.00	-2.72	Peak
8952.00	36.00	---	15.19	51.18	---	74.00	54.00	-2.82	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3820.00	42.58	---	6.09	48.67	---	74.00	54.00	-5.33	Peak
4670.00	42.07	---	8.77	50.84	---	74.00	54.00	-3.16	Peak
5450.00	40.69	---	10.40	51.09	---	74.00	54.00	-2.91	Peak
6240.00	38.27	---	12.66	50.93	---	74.00	54.00	-3.07	Peak
7716.00	37.95	---	13.38	51.33	---	74.00	54.00	-2.67	Peak
9228.00	36.81	---	15.52	52.33	---	74.00	54.00	-1.67	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11a TX / CH High	Temp. & Humidity	24˚C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3815.00	42.64	---	6.08	48.72	---	74.00	54.00	-5.28	Peak
4700.00	41.96	---	8.75	50.71	---	74.00	54.00	-3.29	Peak
5350.00	41.19	---	10.00	51.19	---	74.00	54.00	-2.81	Peak
6276.00	38.70	---	12.65	51.34	---	74.00	54.00	-2.66	Peak
7740.00	38.21	---	13.45	51.66	---	74.00	54.00	-2.34	Peak
9084.00	36.64	---	15.29	51.92	---	74.00	54.00	-2.08	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3235.00	43.68	---	5.18	48.87	---	74.00	54.00	-5.13	Peak
4510.00	42.50	---	8.85	51.34	---	74.00	54.00	-2.66	Peak
5375.00	41.49	---	10.10	51.59	---	74.00	54.00	-2.41	Peak
6192.00	38.16	---	12.69	50.84	---	74.00	54.00	-3.16	Peak
7440.00	37.96	---	12.91	50.87	---	74.00	54.00	-3.13	Peak
8916.00	36.55	---	15.21	51.76	---	74.00	54.00	-2.24	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11an HT20 TX / CH Low	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3825.00	42.59	---	6.10	48.69	---	74.00	54.00	-5.31	Peak
4620.00	41.81	---	8.79	50.60	---	74.00	54.00	-3.40	Peak
5405.00	40.53	---	10.22	50.75	---	74.00	54.00	-3.25	Peak
6060.00	38.40	---	12.74	51.14	---	74.00	54.00	-2.86	Peak
7992.00	38.02	---	14.18	52.20	---	74.00	54.00	-1.80	Peak
8964.00	35.43	---	15.18	50.60	---	74.00	54.00	-3.40	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3195.00	43.20	---	5.12	48.32	---	74.00	54.00	-5.68	Peak
4680.00	42.45	---	8.76	51.22	---	74.00	54.00	-2.78	Peak
5415.00	40.47	---	10.26	50.73	---	74.00	54.00	-3.27	Peak
6108.00	38.84	---	12.72	51.56	---	74.00	54.00	-2.44	Peak
7440.00	37.82	---	12.91	50.73	---	74.00	54.00	-3.27	Peak
8964.00	36.86	---	15.18	52.04	---	74.00	54.00	-1.96	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11an HT20 TX / CH Middle	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3835.00	43.01	---	6.11	49.12	---	74.00	54.00	-4.88	Peak
4700.00	41.71	---	8.75	50.46	---	74.00	54.00	-3.54	Peak
5385.00	41.05	---	10.14	51.19	---	74.00	54.00	-2.81	Peak
6228.00	38.19	---	12.67	50.86	---	74.00	54.00	-3.14	Peak
7380.00	38.03	---	13.07	51.10	---	74.00	54.00	-2.90	Peak
9096.00	36.61	---	15.31	51.92	---	74.00	54.00	-2.08	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3915.00	43.18	---	6.23	49.41	---	74.00	54.00	-4.59	Peak
4745.00	41.28	---	8.73	50.01	---	74.00	54.00	-3.99	Peak
5455.00	40.31	---	10.42	50.73	---	74.00	54.00	-3.27	Peak
6144.00	38.16	---	12.71	50.86	---	74.00	54.00	-3.14	Peak
7908.00	38.11	---	13.93	52.05	---	74.00	54.00	-1.95	Peak
8976.00	36.73	---	15.17	51.90	---	74.00	54.00	-2.10	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11an HT20 TX / CH High	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3240.00	42.91	---	5.19	48.11	---	74.00	54.00	-5.89	Peak
4790.00	42.03	---	8.71	50.74	---	74.00	54.00	-3.26	Peak
5395.00	40.23	---	10.18	50.41	---	74.00	54.00	-3.59	Peak
6204.00	37.54	---	12.68	50.22	---	74.00	54.00	-3.78	Peak
7764.00	37.81	---	13.52	51.33	---	74.00	54.00	-2.67	Peak
8904.00	37.10	---	15.22	52.33	---	74.00	54.00	-1.67	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3220.00	43.55	---	5.16	48.71	---	74.00	54.00	-5.29	Peak
4650.00	41.52	---	8.78	50.30	---	74.00	54.00	-3.70	Peak
5405.00	40.48	---	10.22	50.70	---	74.00	54.00	-3.30	Peak
6192.00	38.17	---	12.69	50.86	---	74.00	54.00	-3.14	Peak
7776.00	38.07	---	13.55	51.63	---	74.00	54.00	-2.37	Peak
8988.00	36.51	---	15.16	51.67	---	74.00	54.00	-2.33	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11an HT40 TX / CH Low	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3255.00	43.09	---	5.22	48.31	---	74.00	54.00	-5.69	Peak
4630.00	42.14	---	8.79	50.93	---	74.00	54.00	-3.07	Peak
5390.00	40.15	---	10.16	50.31	---	74.00	54.00	-3.69	Peak
6060.00	39.07	---	12.74	51.81	---	74.00	54.00	-2.19	Peak
7752.00	37.74	---	13.48	51.23	---	74.00	54.00	-2.77	Peak
9036.00	36.35	---	15.21	51.55	---	74.00	54.00	-2.45	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3255.00	43.09	---	5.22	48.31	---	74.00	54.00	-5.69	Peak
4675.00	41.62	---	8.77	50.39	---	74.00	54.00	-3.61	Peak
5435.00	40.88	---	10.34	51.22	---	74.00	54.00	-2.78	Peak
6240.00	38.51	---	12.66	51.18	---	74.00	54.00	-2.82	Peak
8100.00	37.90	---	14.47	52.37	---	74.00	54.00	-1.63	Peak
9132.00	36.86	---	15.36	52.22	---	74.00	54.00	-1.78	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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Product Name	Computer	Test By	Rex Chiu
Test Model	TREK-572	Test Date	2014/11/24
Test Mode	UNII Band 3 / IEEE 802.11an HT40 TX / CH High	Temp. & Humidity	24°C, 56%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3865.00	43.66	---	6.16	49.81	---	74.00	54.00	-4.19	Peak
4630.00	41.55	---	8.79	50.33	---	74.00	54.00	-3.67	Peak
5420.00	40.60	---	10.28	50.88	---	74.00	54.00	-3.12	Peak
6144.00	38.51	---	12.71	51.22	---	74.00	54.00	-2.78	Peak
7548.00	38.73	---	12.89	51.62	---	74.00	54.00	-2.38	Peak
9108.00	37.08	---	15.32	52.41	---	74.00	54.00	-1.59	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
3210.00	43.20	---	5.14	48.35	---	74.00	54.00	-5.65	Peak
4650.00	41.87	---	8.78	50.65	---	74.00	54.00	-3.35	Peak
5385.00	40.86	---	10.14	51.01	---	74.00	54.00	-2.99	Peak
6120.00	38.75	---	12.72	51.46	---	74.00	54.00	-2.54	Peak
7800.00	37.88	---	13.62	51.50	---	74.00	54.00	-2.50	Peak
9036.00	36.78	---	15.21	51.99	---	74.00	54.00	-2.01	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. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *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.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

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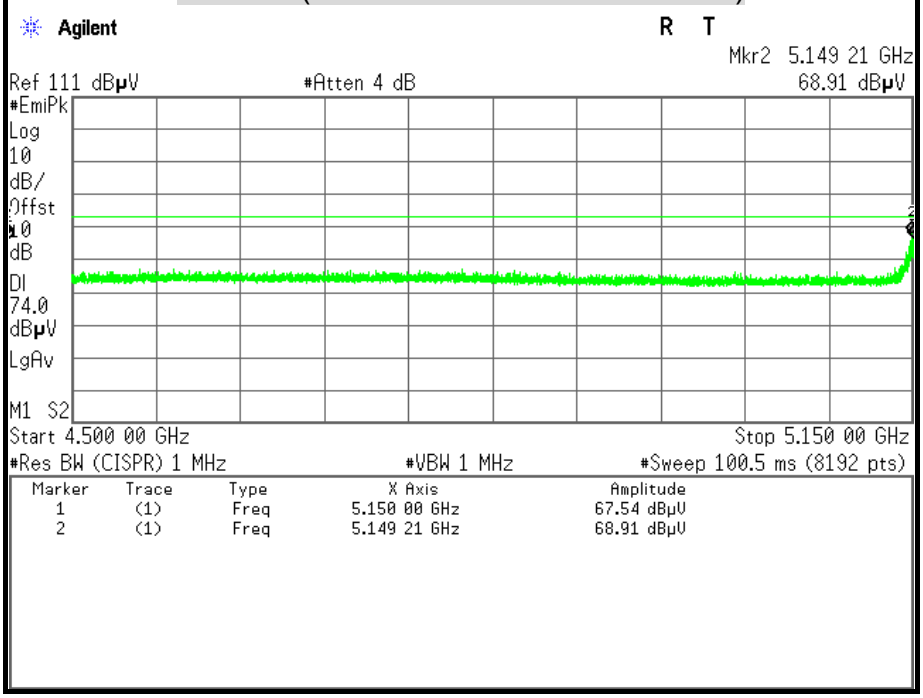
Restricted Band Edges

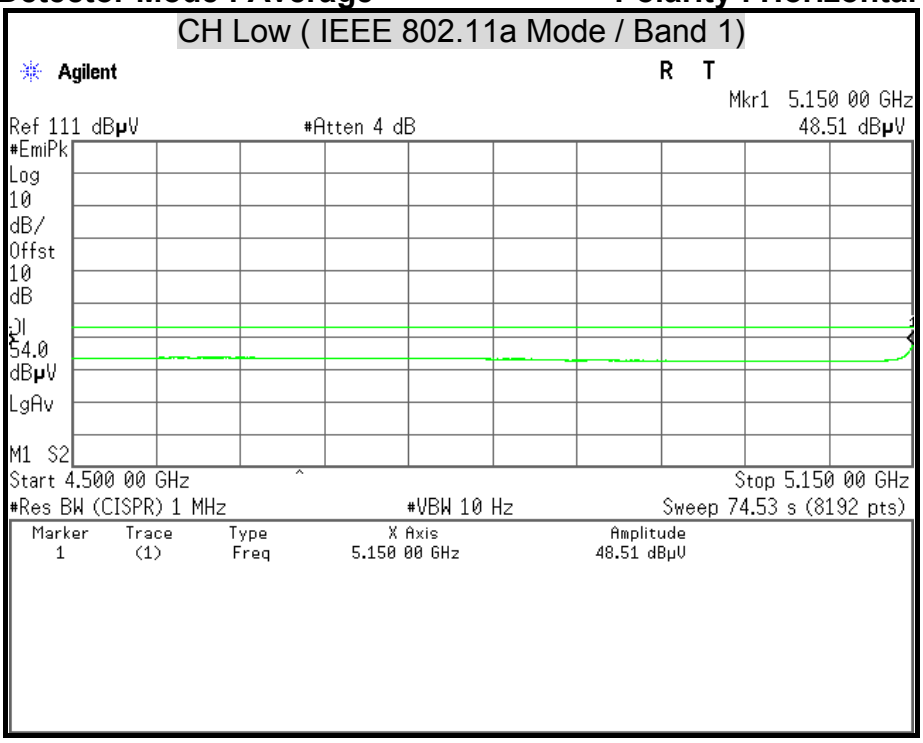
Detector Mode : Peak **Polarity : Horizontal**

CH Low (IEEE 802.11a Mode / Band 1)



Detector Mode : Average **Polarity : Horizontal**

CH Low (IEEE 802.11a Mode / Band 1)



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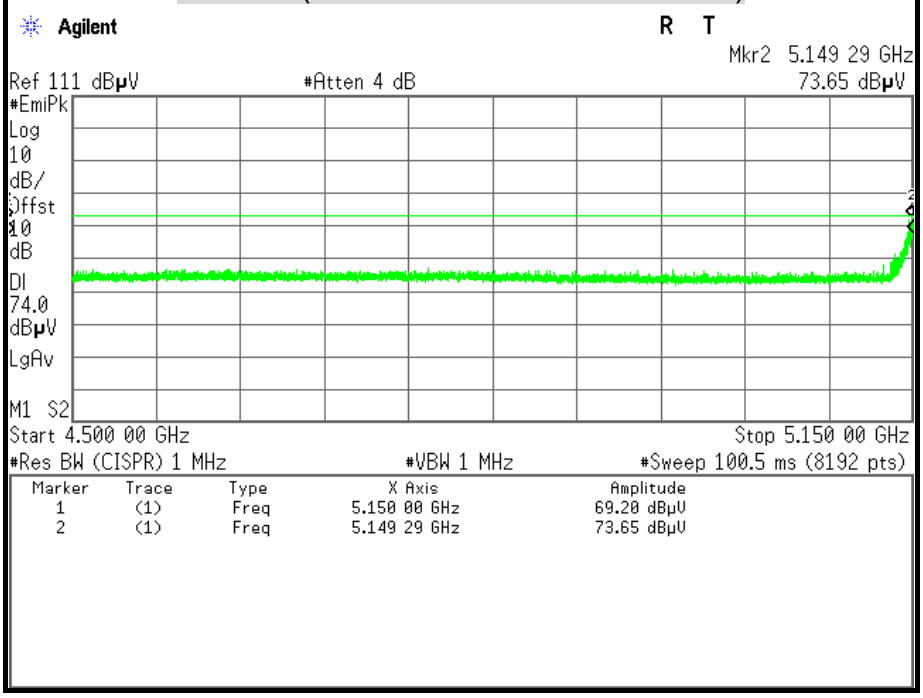
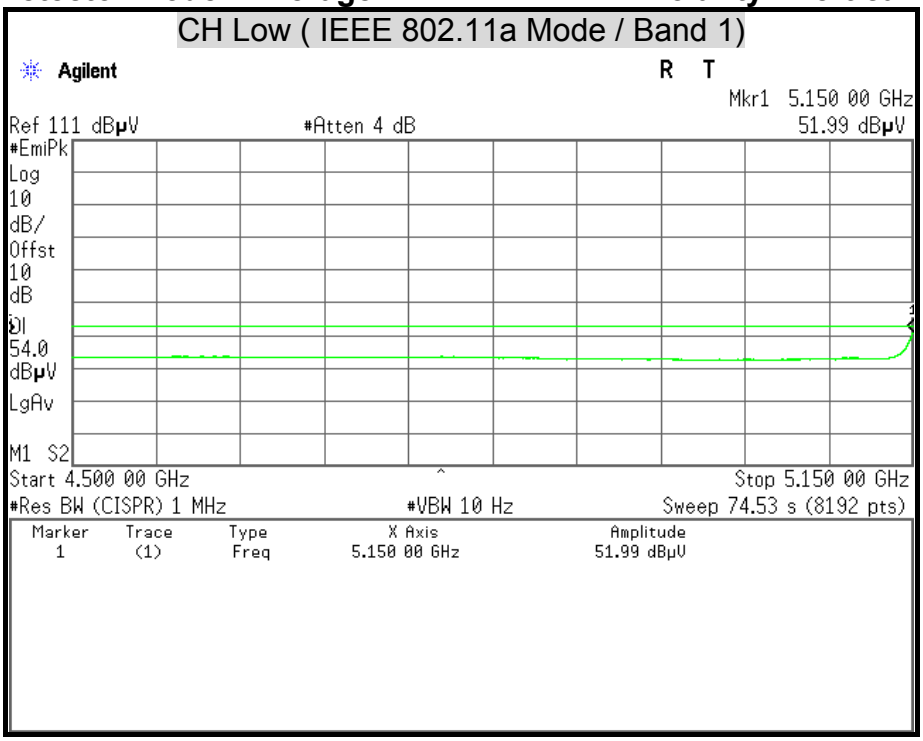
Detector Mode : Peak **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 1)



Detector Mode : Average **Polarity : Vertical**

CH Low (IEEE 802.11a Mode / Band 1)



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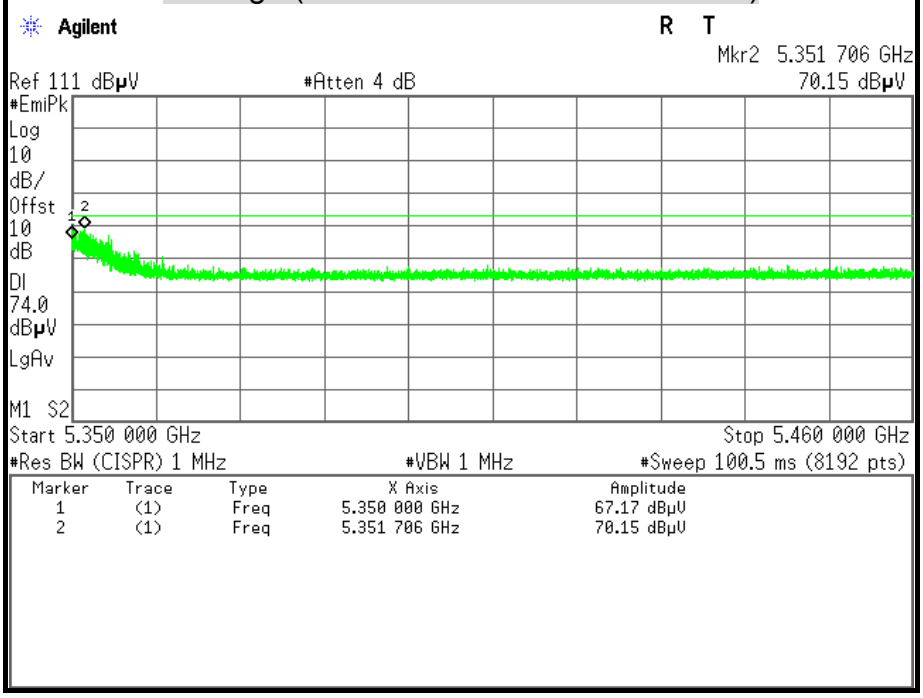
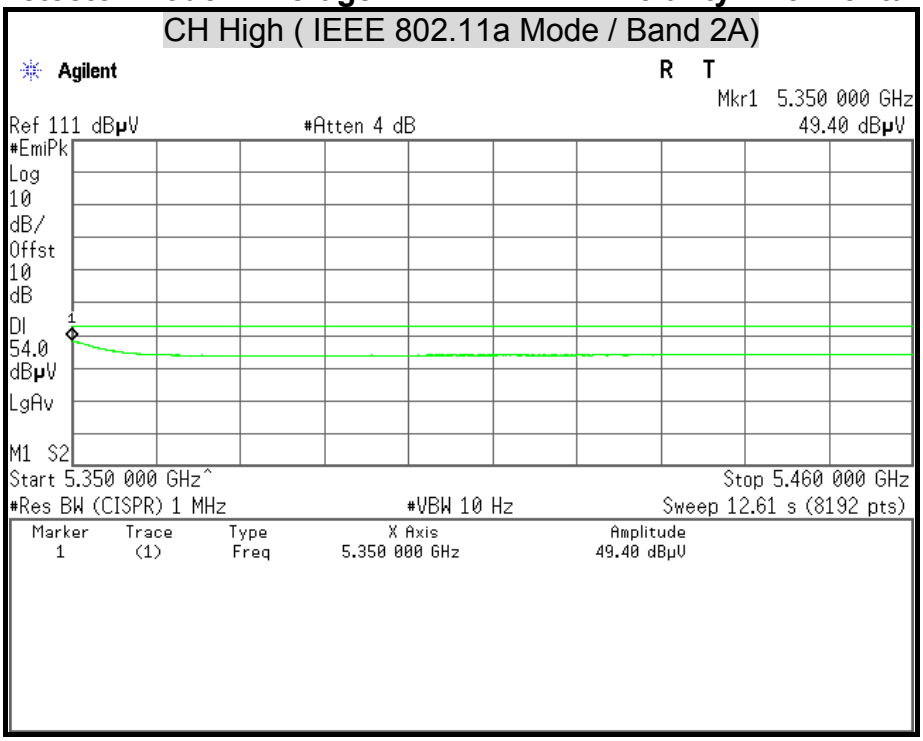
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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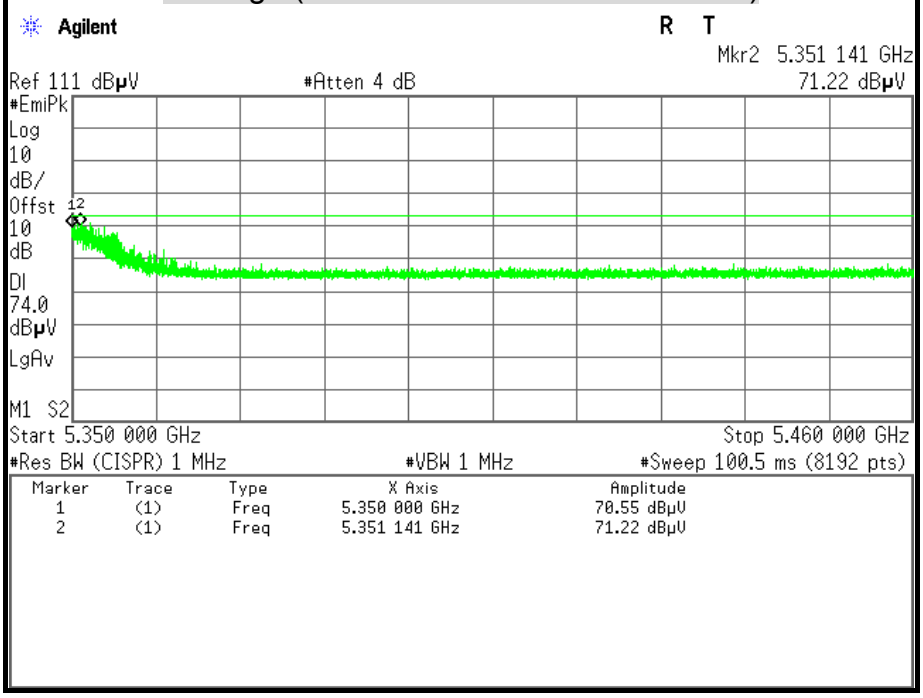
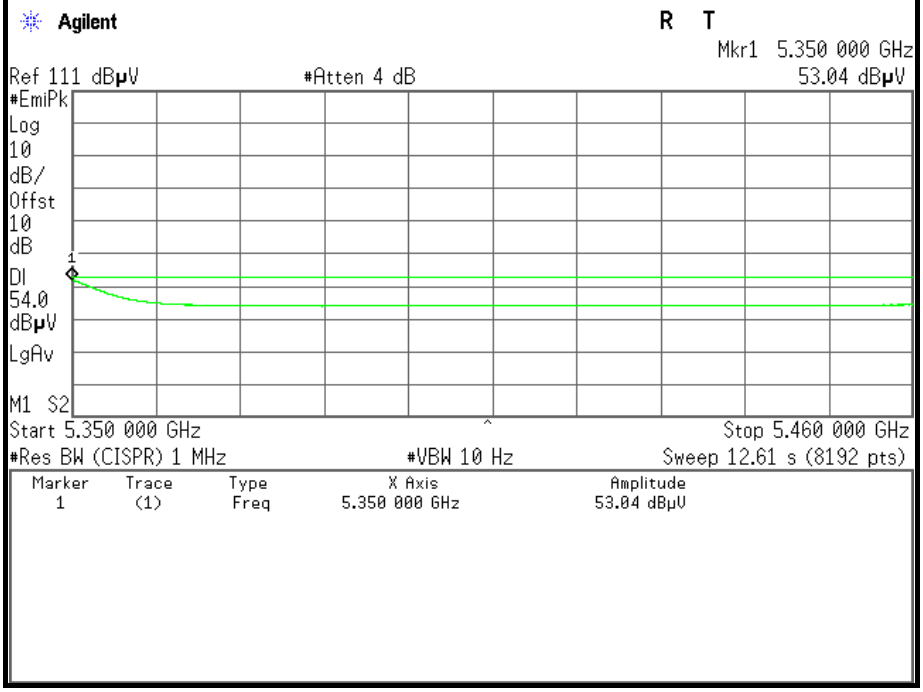
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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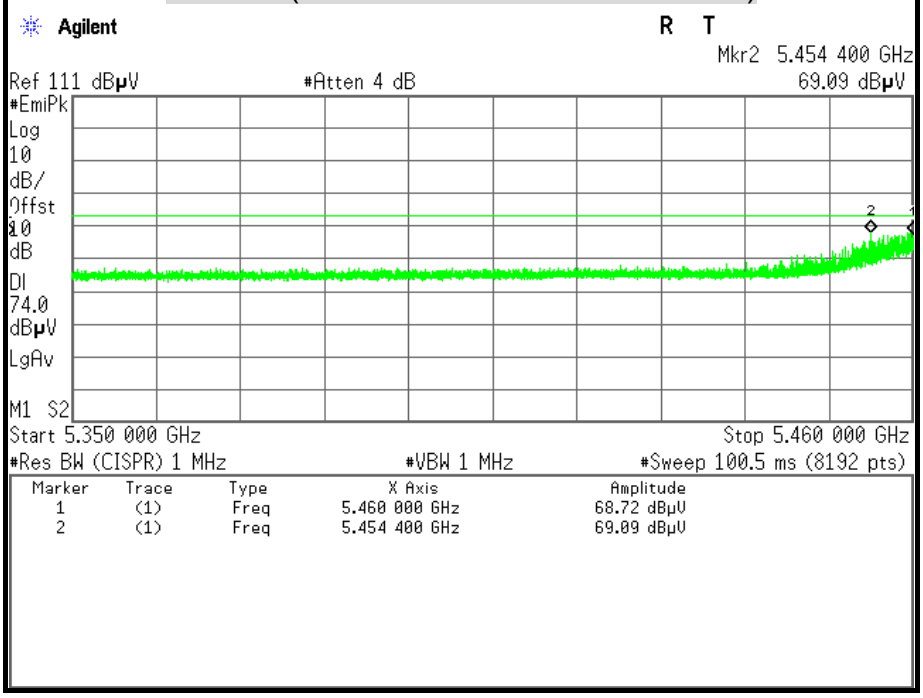
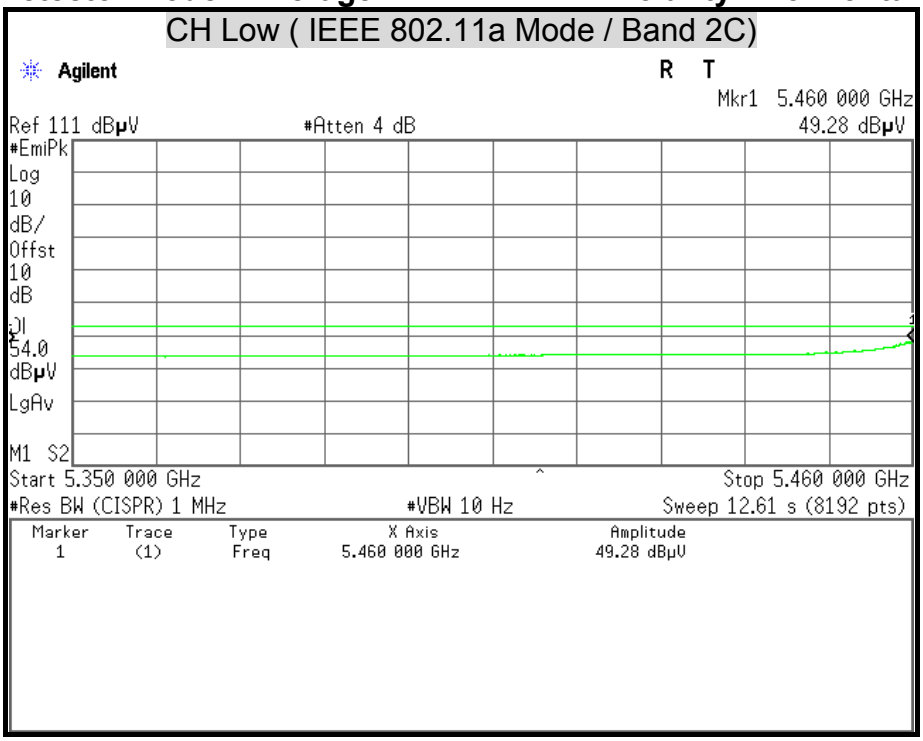
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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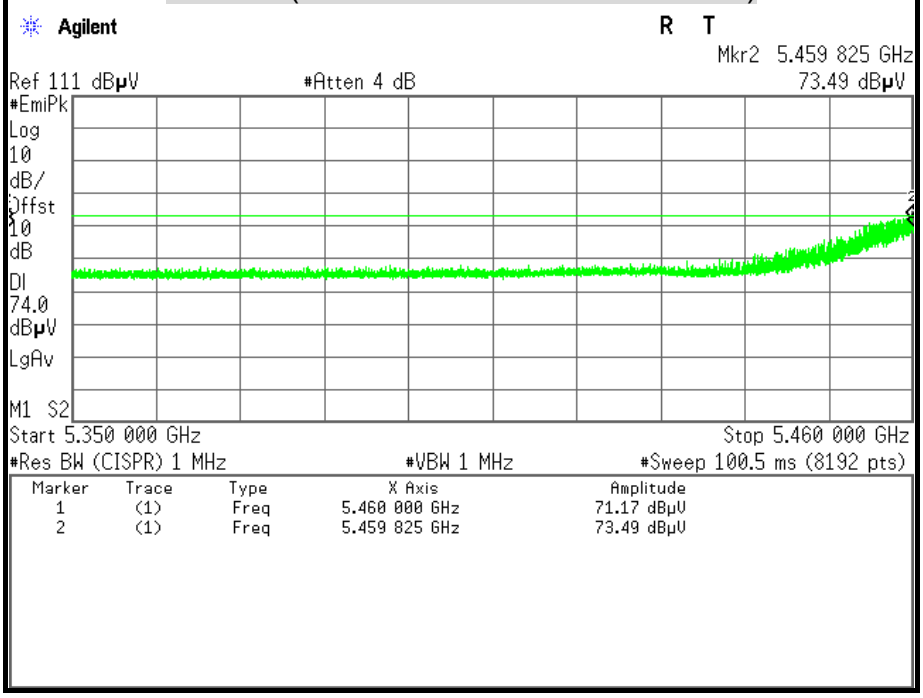
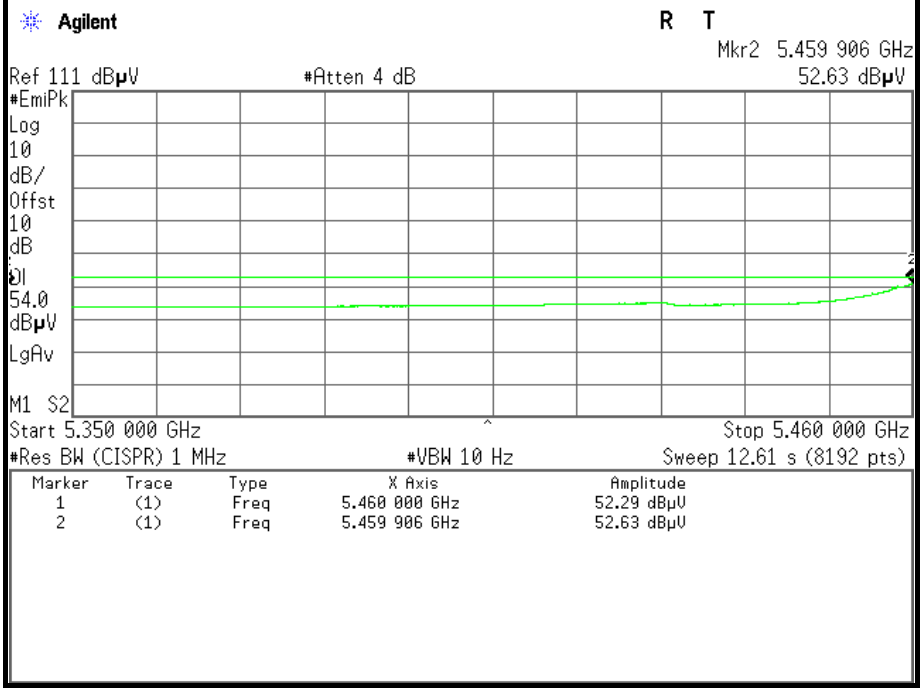
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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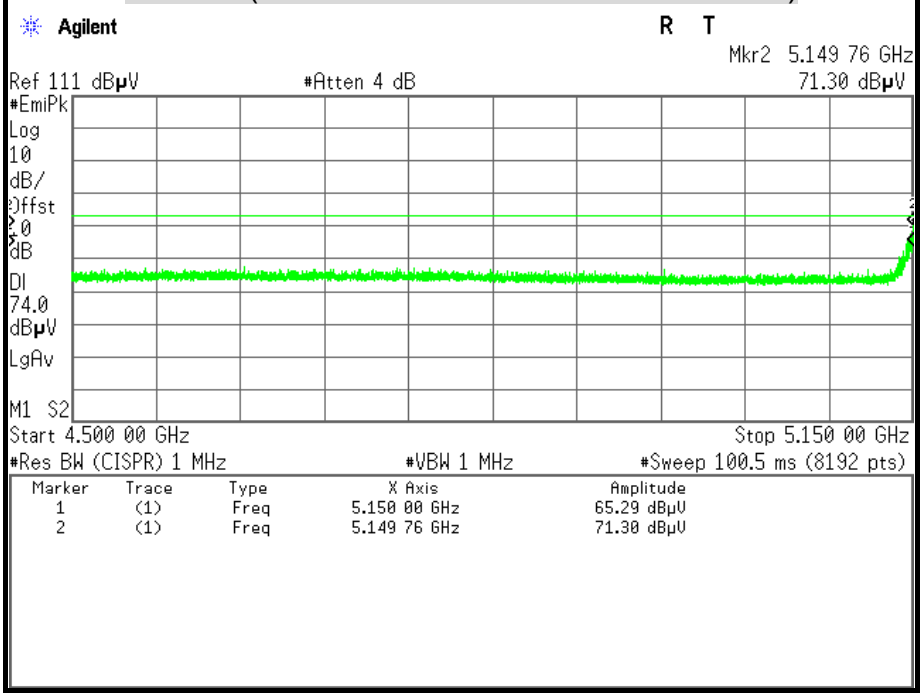
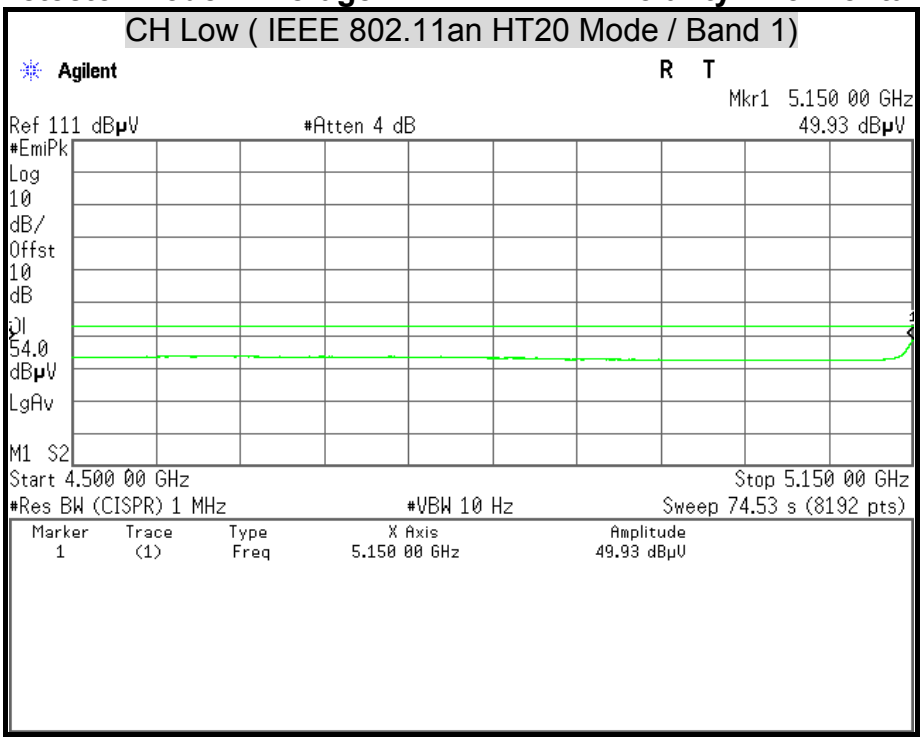
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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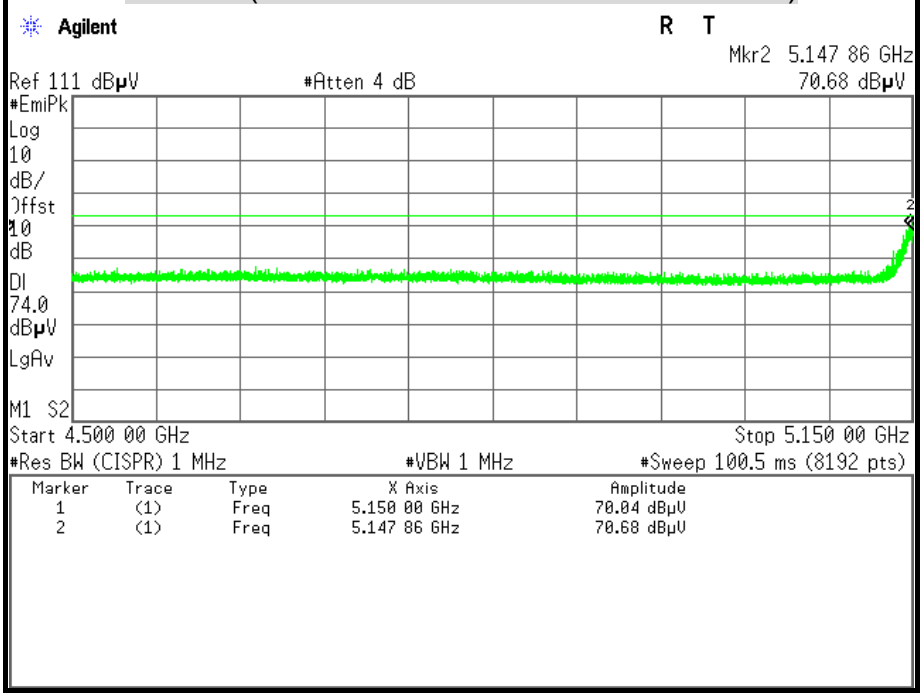
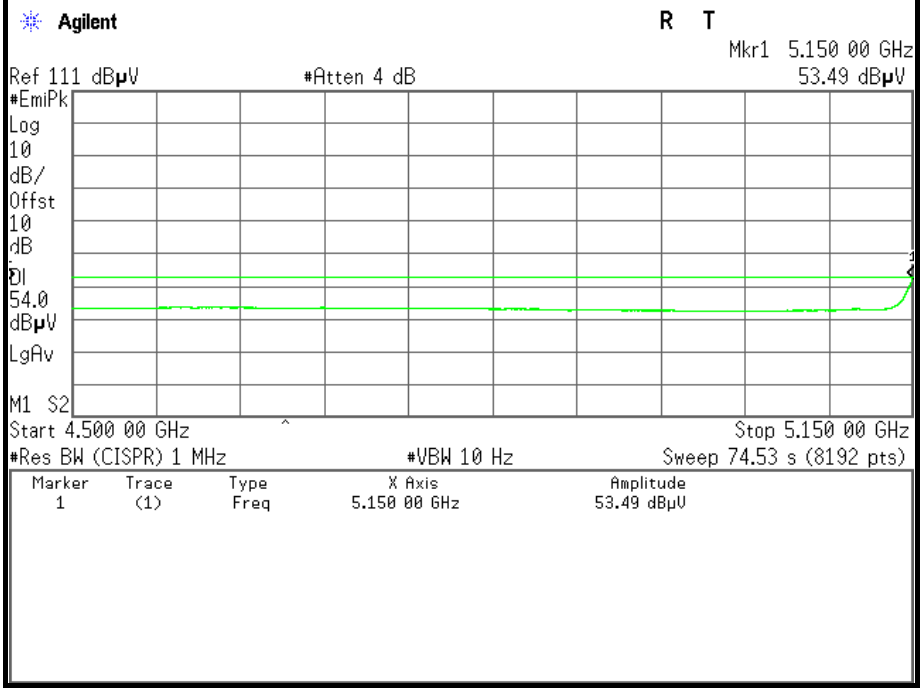
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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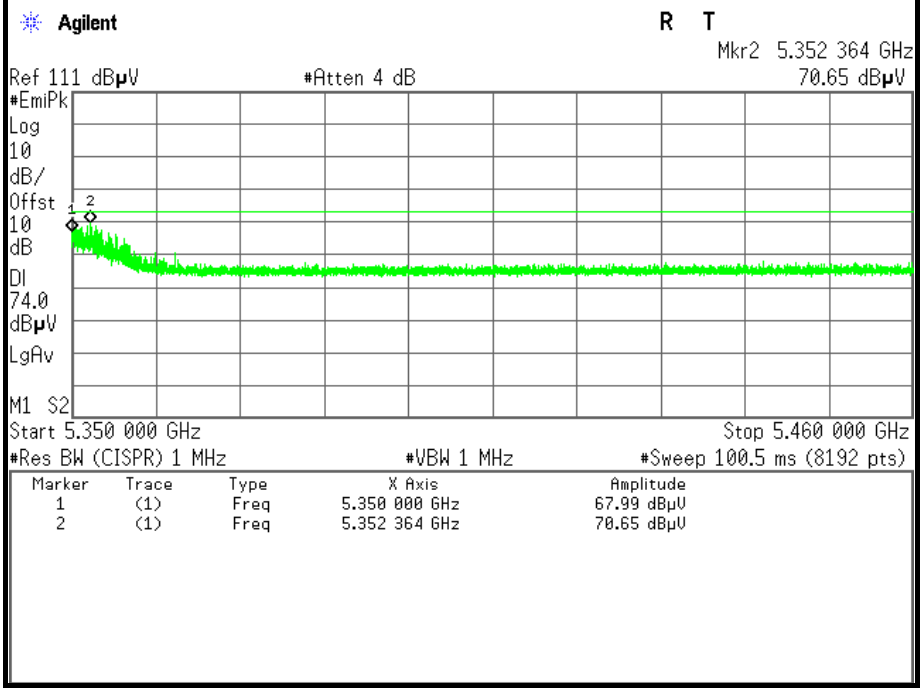
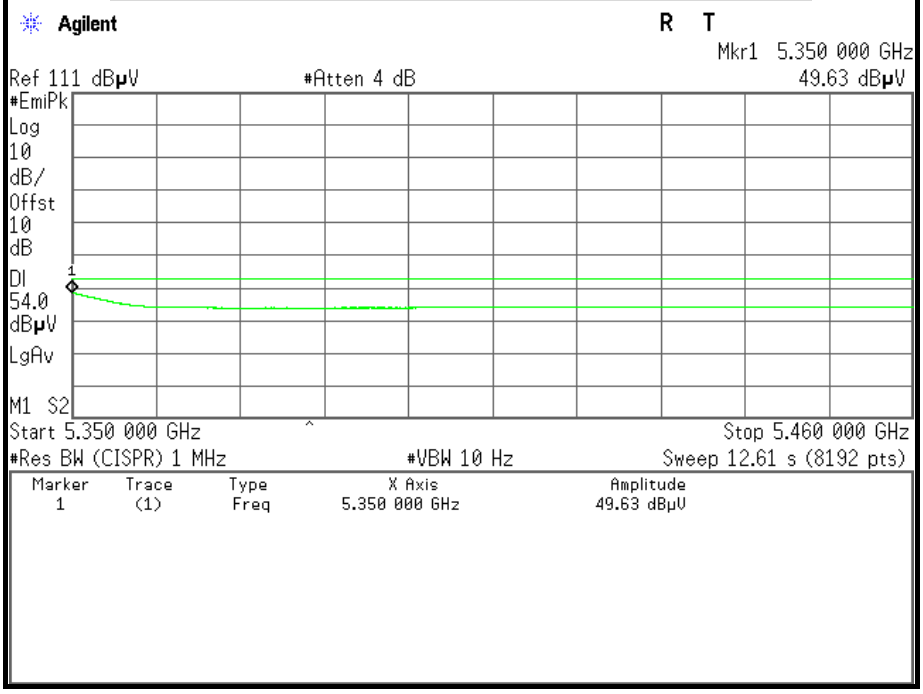
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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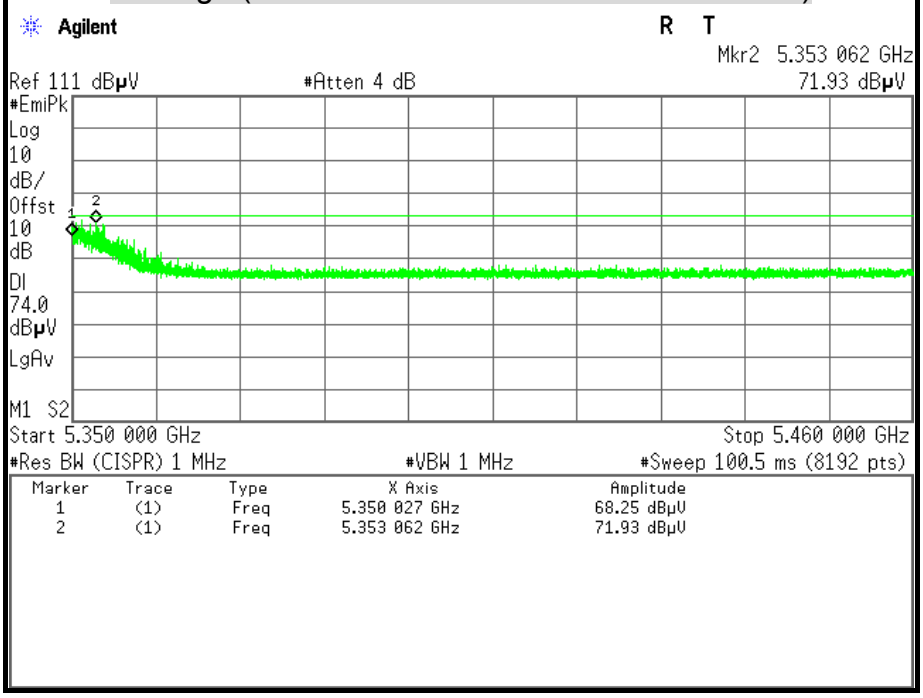
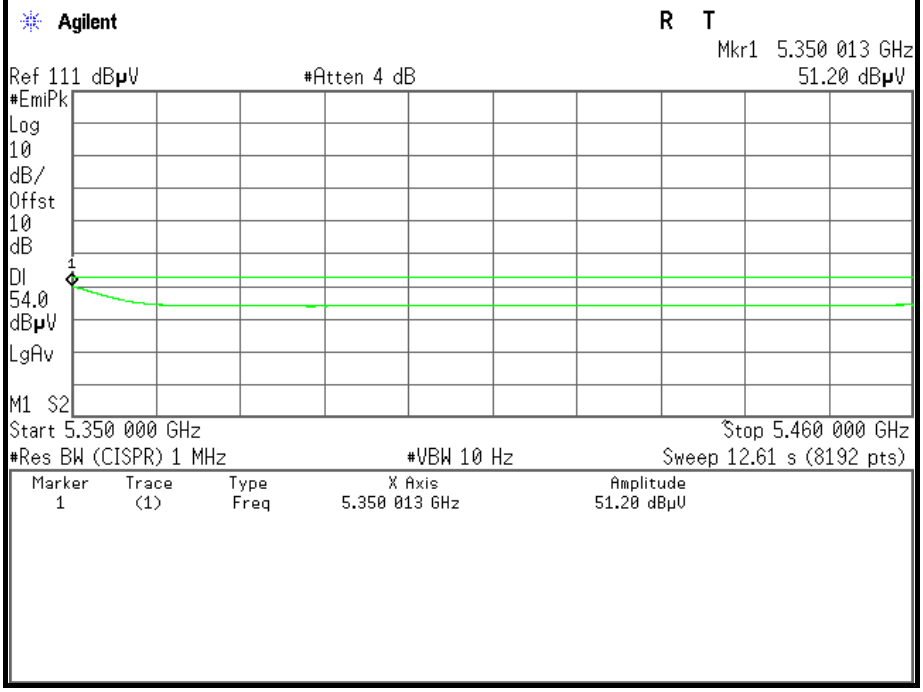
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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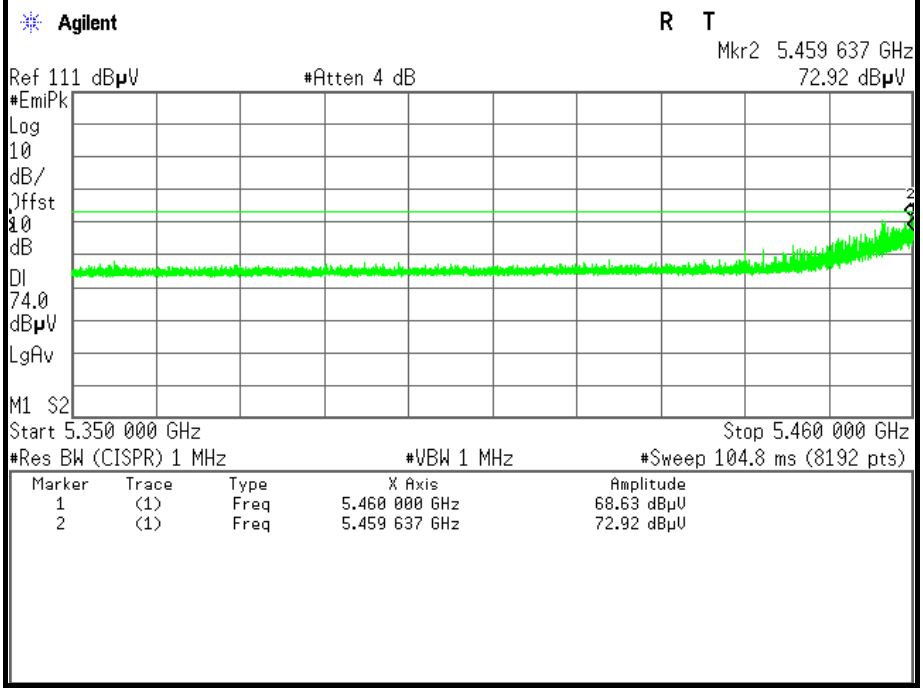
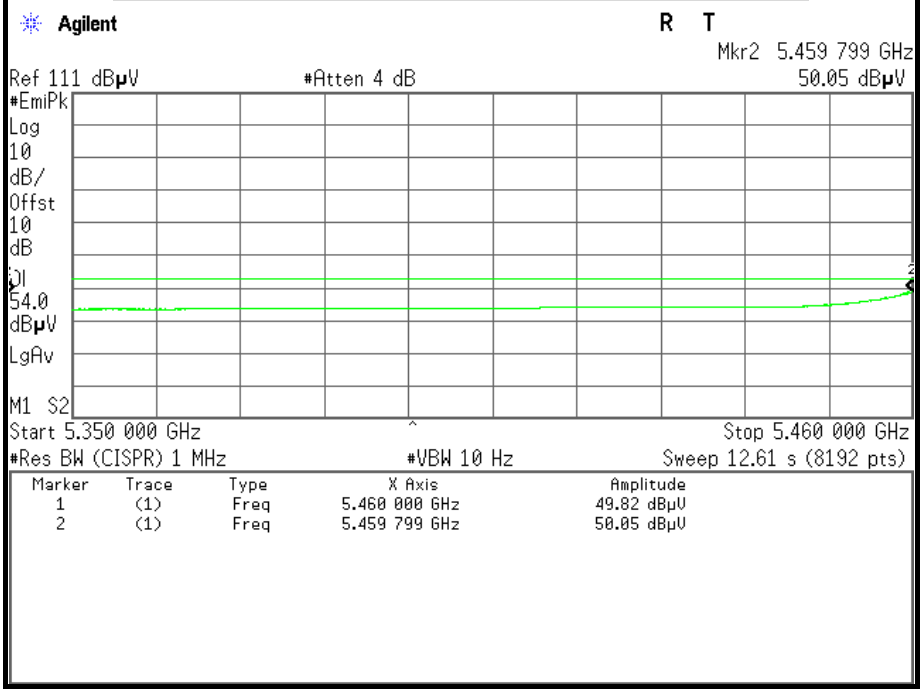
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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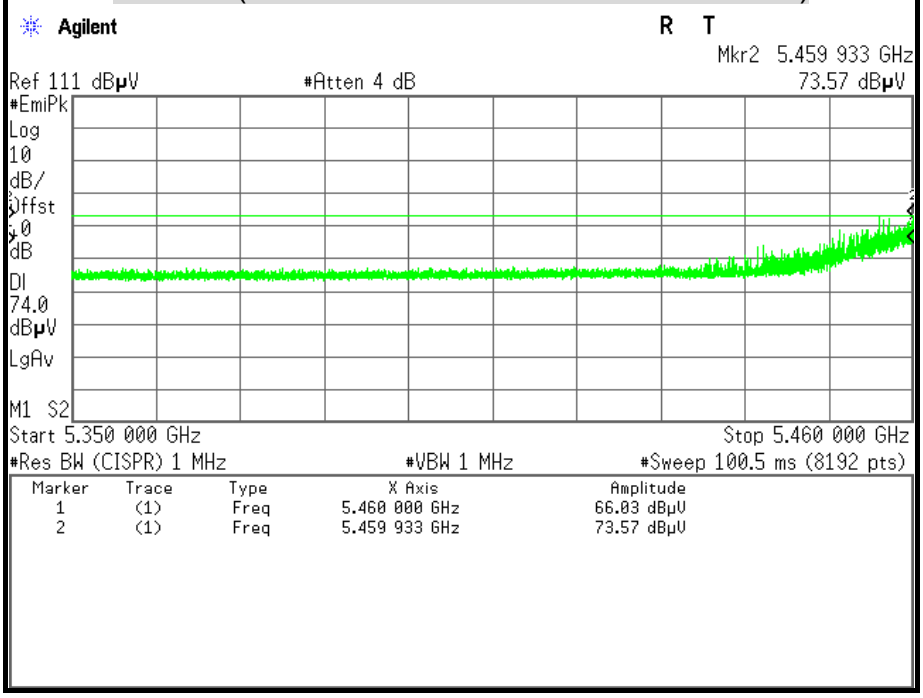
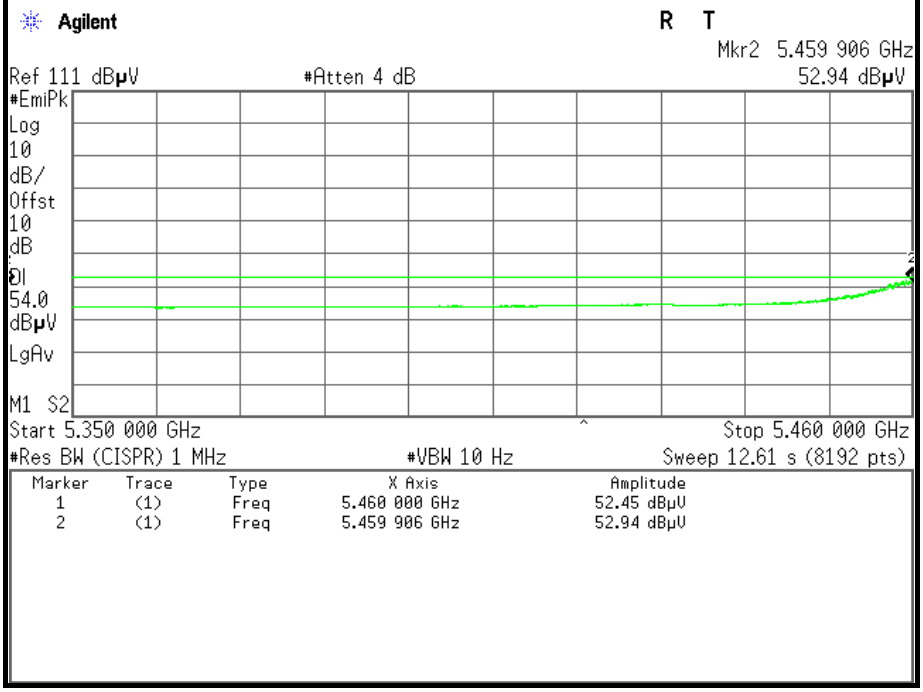
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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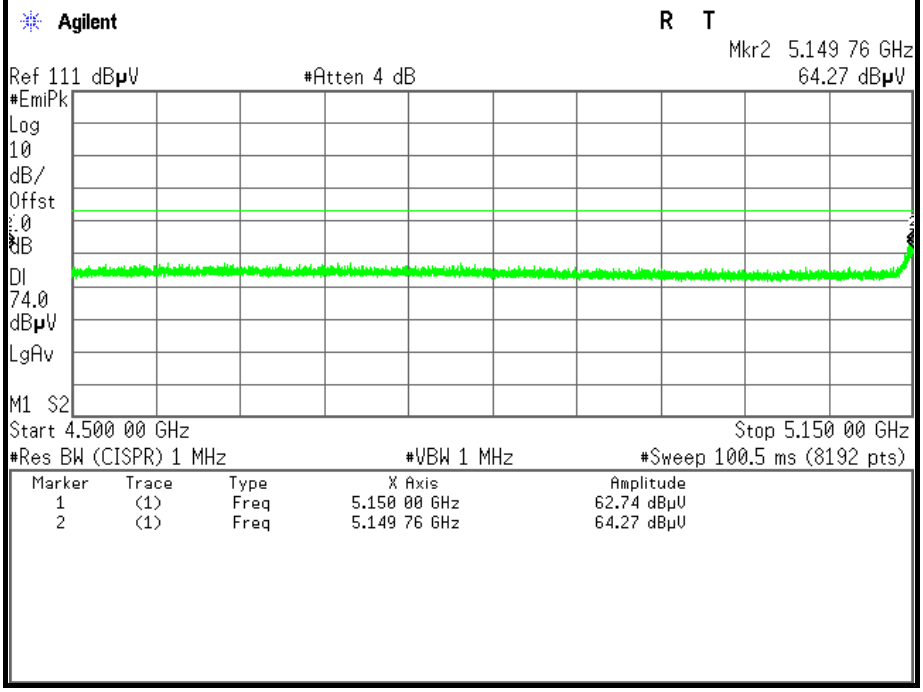
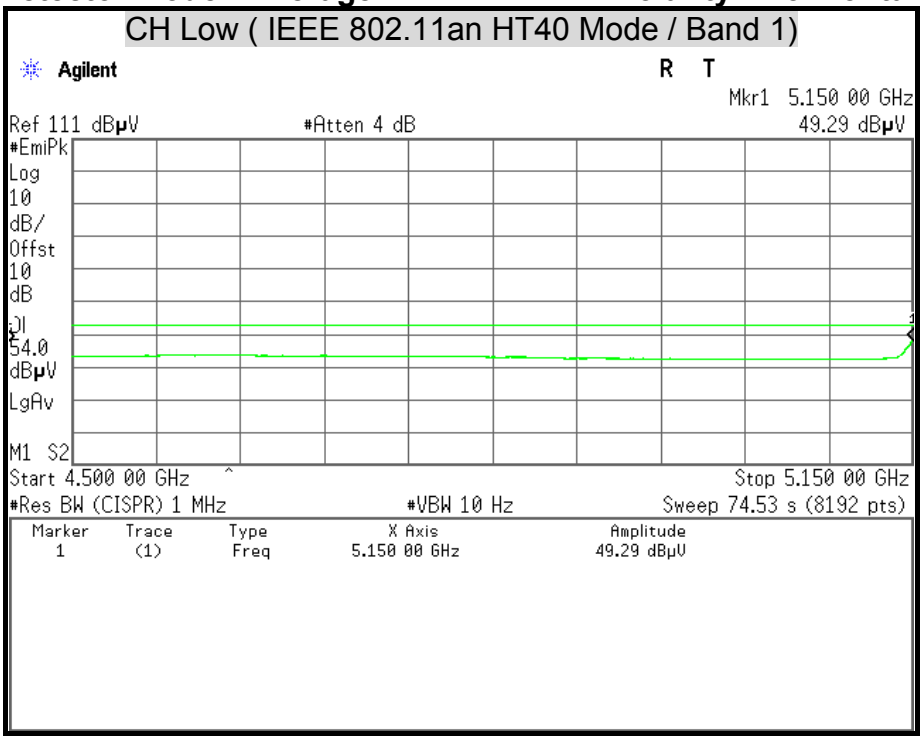
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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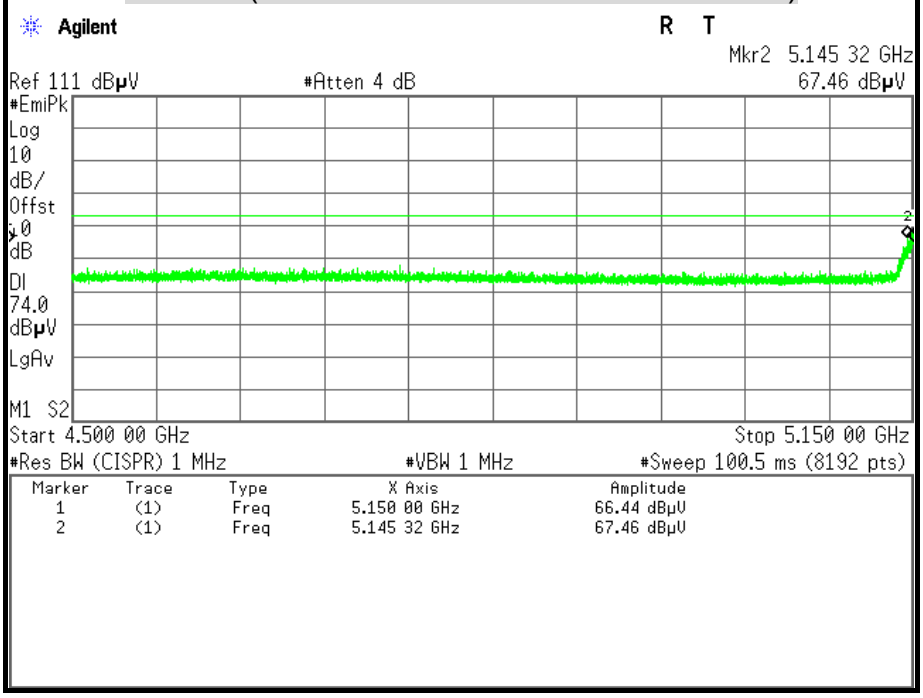
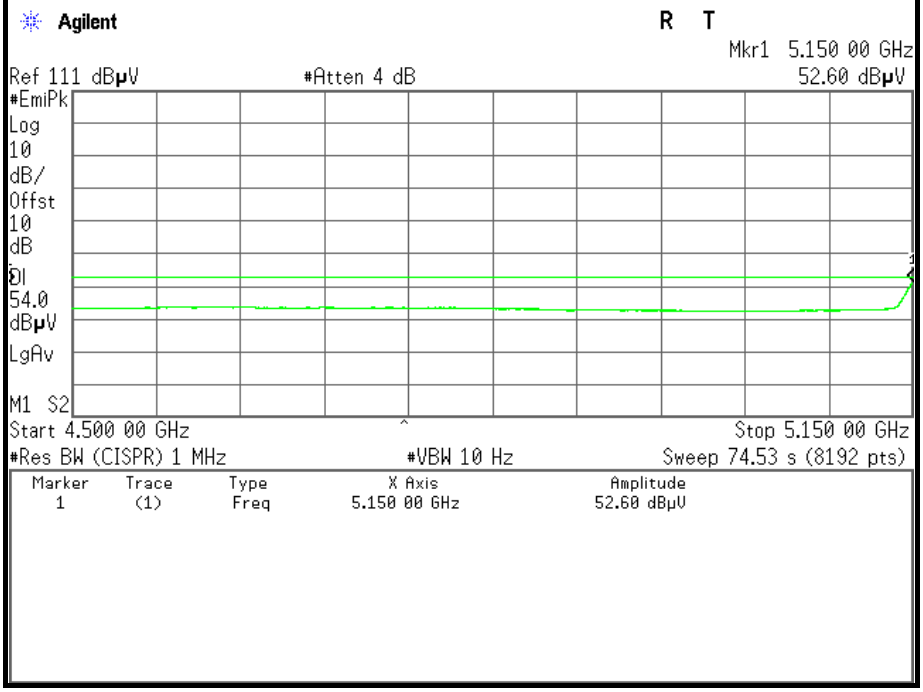
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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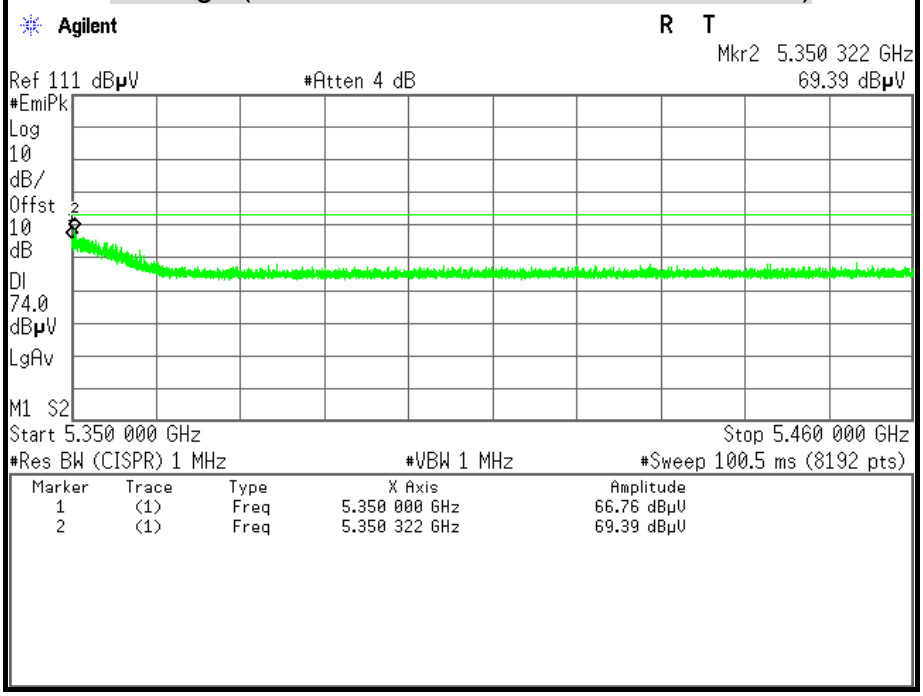
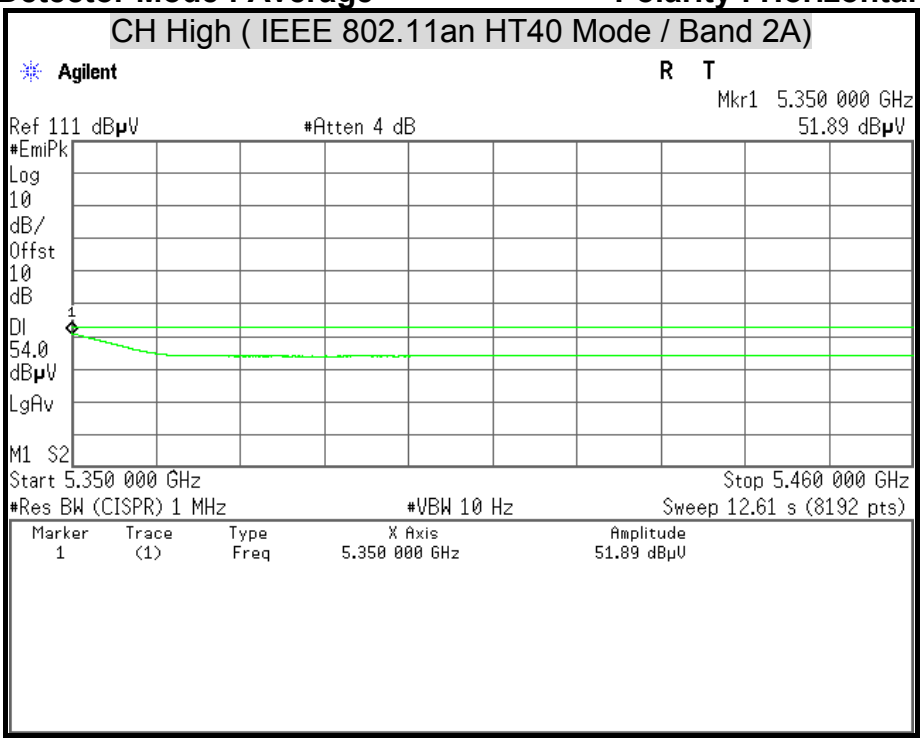
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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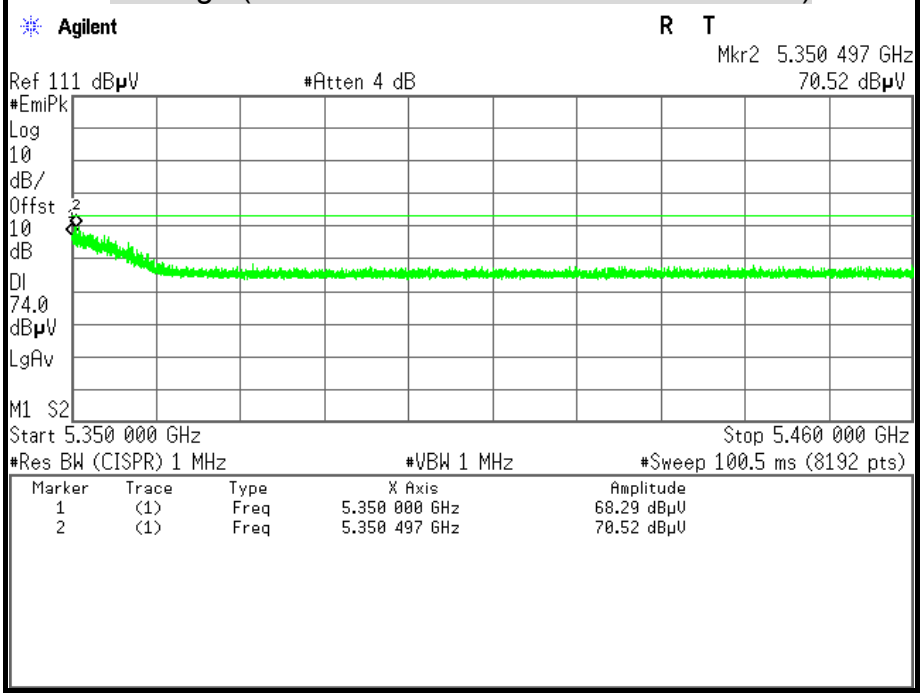
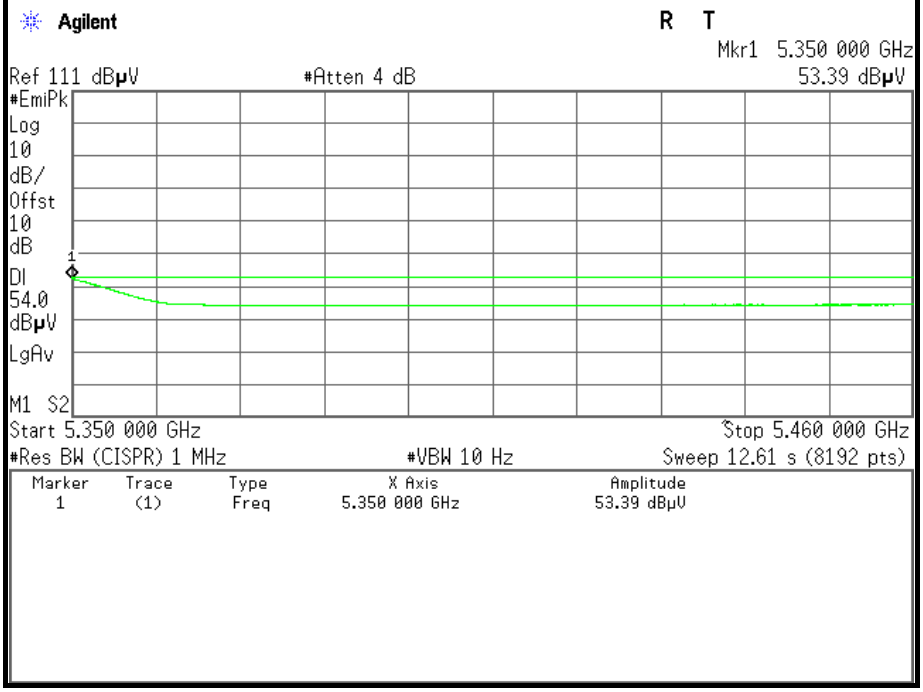
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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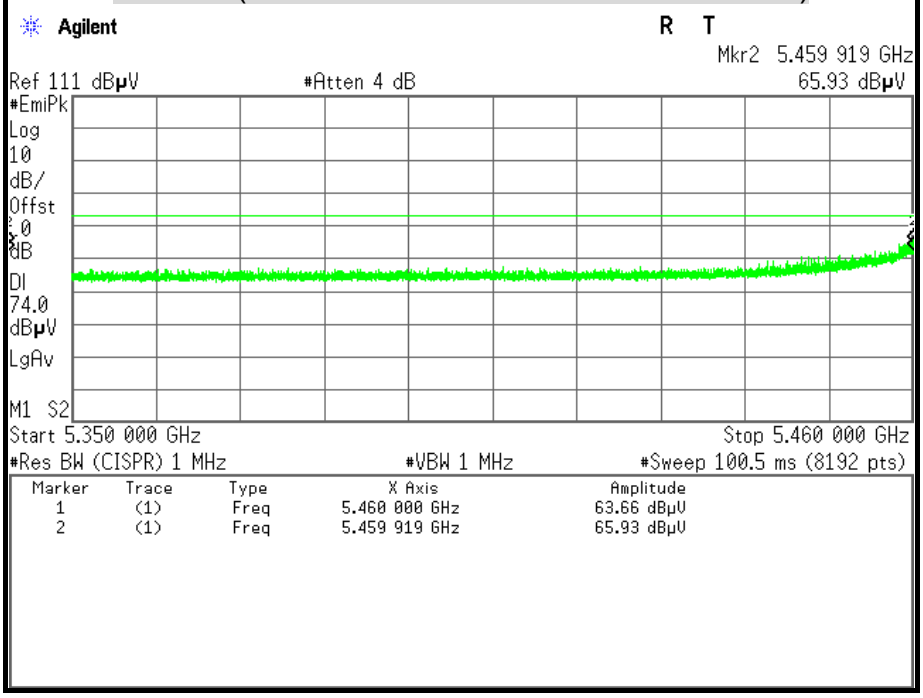
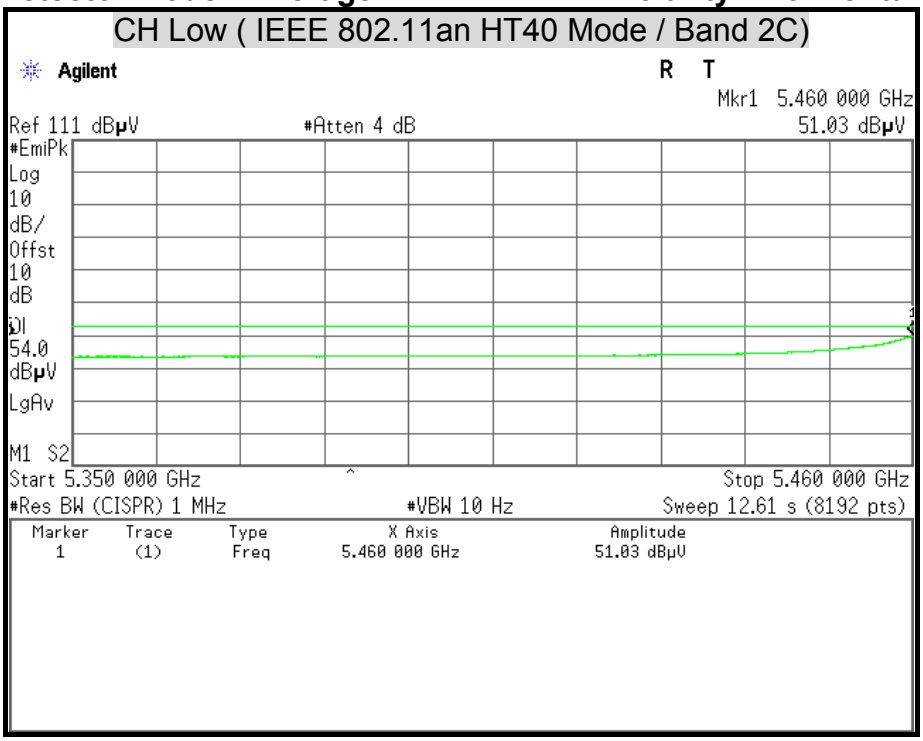
Detector Mode : Peak **Polarity : Horizontal**

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



Detector Mode : Average **Polarity : Horizontal**

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



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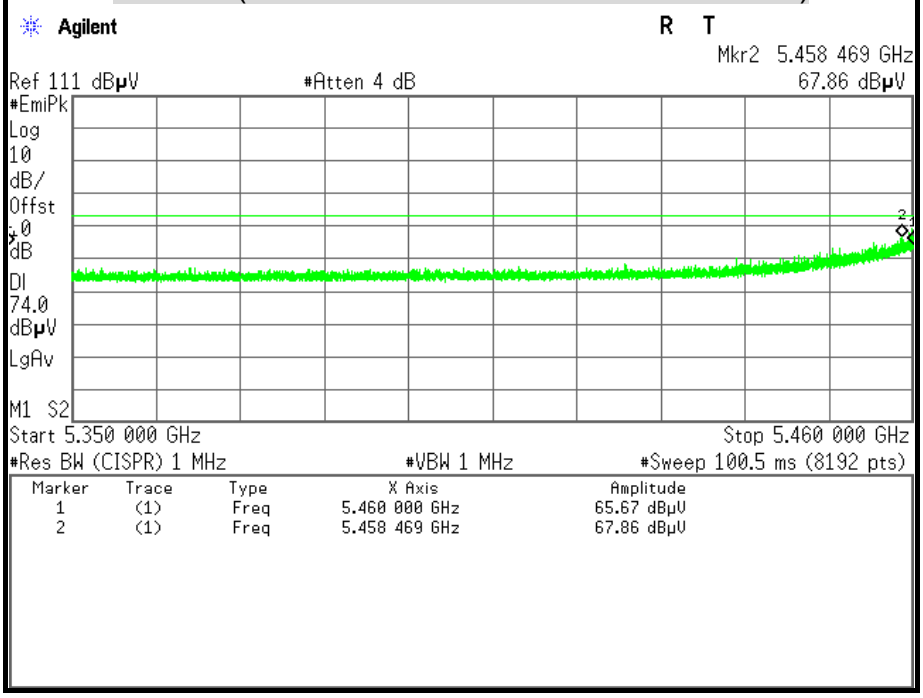
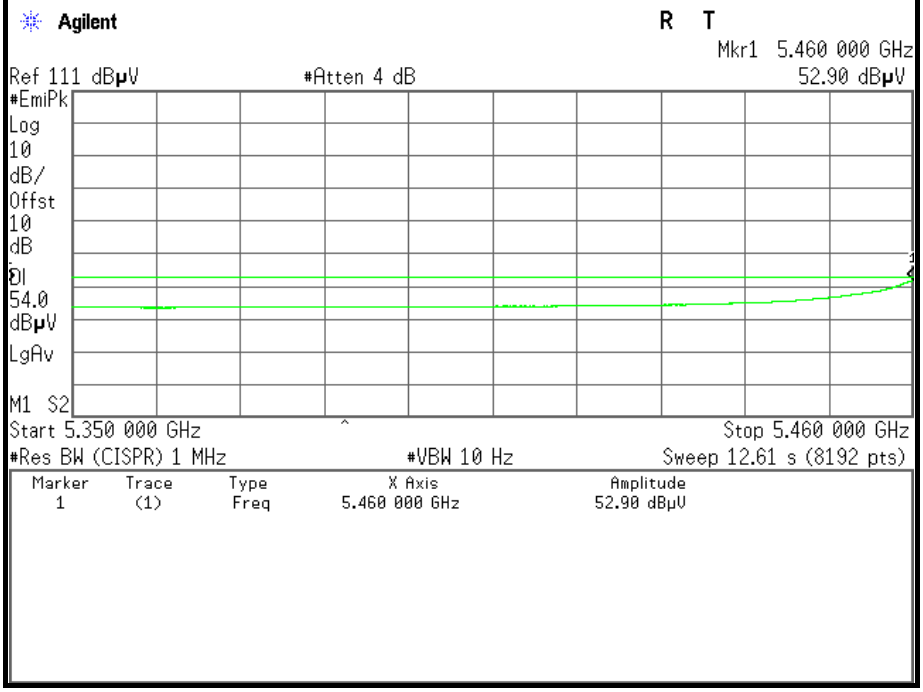
Detector Mode : Peak **Polarity : Vertical**

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



Detector Mode : Average **Polarity : Vertical**

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



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7.6 CONDUCTED EMISSION

LIMITS

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

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

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-465	08/06/2015
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-473	03/10/2015
EMI Receiver	ROHDE & SCHWARZ	ESCS 30	835418/008	11/02/2015
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100111	06/30/2015

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

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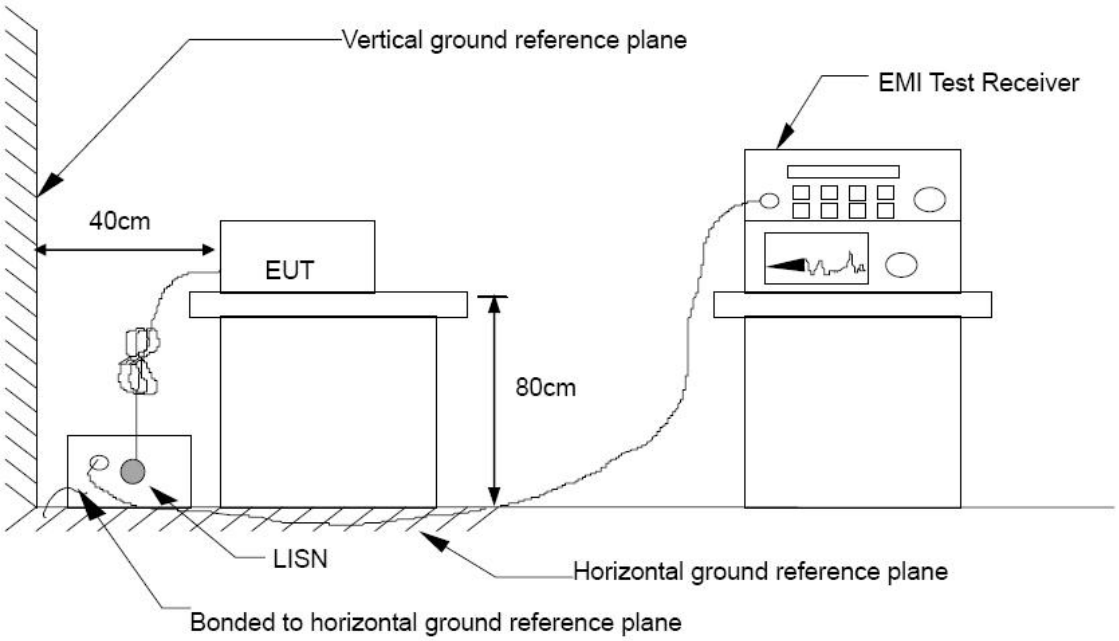
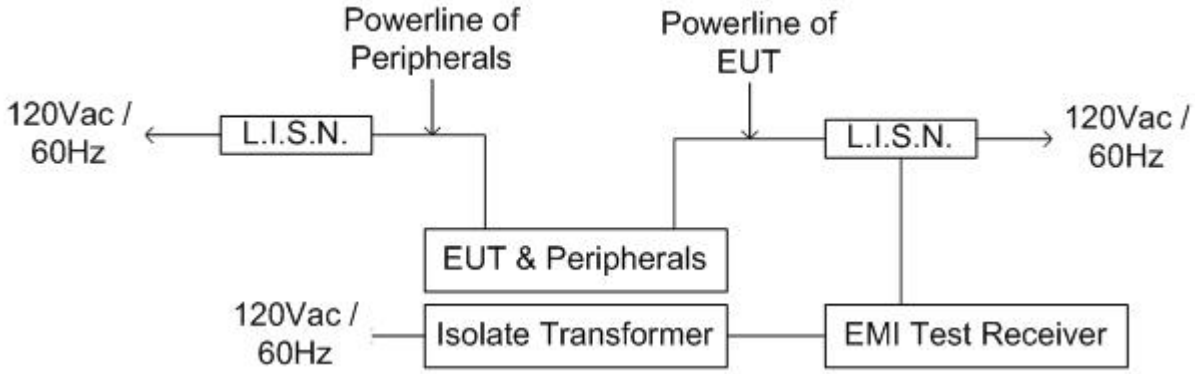
TEST SETUP





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TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2009.

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

Since the EUT is powered by DC Source, this test item is not applicable.

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7.7 FREQUENCY STABILITY

LIMITS

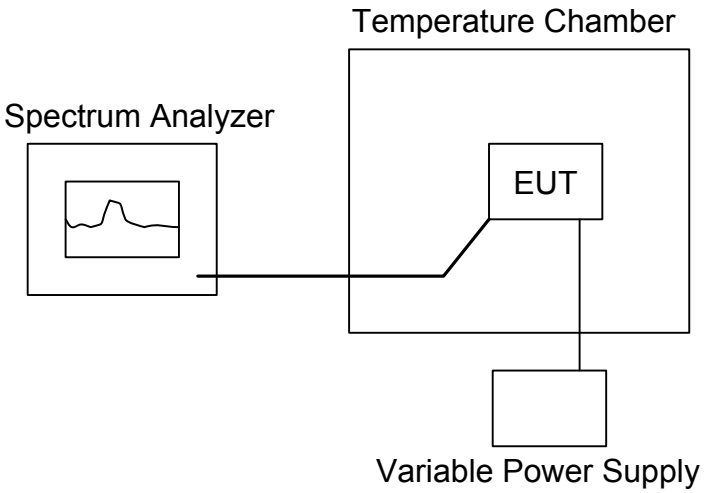
§ 15.407 (g) manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2015
Temp. & Humid. Chamber	TERCHY	MHC-120L	960424	09/09/2015

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

TEST SETUP



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TEST PROCEDURE

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

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TEST RESULTS

IEEE 802.11a mode

U-NII	Channel	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)	20 ppm Limit (kHz)	Margin (kHz)
Band 1	Low	5180	5180.003700	3.70	103.60	-99.90
	Middle	5220	5220.002800	2.80	104.40	-101.60
	High	5240	5240.042900	42.90	104.80	-61.90
Band 2A	Low	5260	5260.001200	1.20	105.20	-104.00
	Middle	5280	5280.026400	26.40	105.60	-79.20
	High	5320	5320.002700	2.70	106.40	-103.70
Band 2C	Low	5500	5500.023100	23.10	110.00	-86.90
	Middle	5580	5580.024600	24.60	111.60	-87.00
	High	5700	5700.012200	12.20	114.00	-101.80
Band 3	Low	5745	5745.005800	5.80	114.90	-109.10
	Middle	5785	5785.006700	6.70	115.70	-109.00
	High	5825	5825.004000	4.00	116.50	-112.50

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IEEE 802.11an HT20 Mode

U-NII	Channel	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)	20 ppm Limit (kHz)	Margin (kHz)
Band 1	Low	5180	5180.001200	1.20	103.60	-102.40
	Middle	5220	5220.022600	22.60	104.40	-81.80
	High	5240	5240.032200	32.20	104.80	-72.60
Band 2A	Low	5260	5260.020600	20.60	105.20	-84.60
	Middle	5280	5280.012700	12.70	105.60	-92.90
	High	5320	5320.006800	6.80	106.40	-99.60
Band 2C	Low	5500	5500.020600	20.60	110.00	-89.40
	Middle	5580	5580.003400	3.40	111.60	-108.20
	High	5700	5700.021200	21.20	114.00	-92.80
Band 3	Low	5745	5745.031000	31.00	114.90	-83.90
	Middle	5785	5785.026000	26.00	115.70	-89.70
	High	5825	5825.002700	2.70	116.50	-113.80

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IEEE 802.11an HT40 Mode

U-NII	Channel	Channel Frequency (MHz)	Measured Frequency (MHz)	Delta Frequency (kHz)	20 ppm Limit (kHz)	Margin (kHz)
Band1	Low	5190	5190.022000	22.00	103.80	-81.80
	High	5230	5230.011100	11.10	104.60	-93.50
Band 2A	Low	5270	5270.036500	36.50	105.40	-68.90
	High	5310	5310.030000	30.00	106.20	-76.20
Band 2C	Low	5510	5510.022800	22.80	110.20	-87.40
	Middle	5550	5550.007600	7.60	111.00	-103.40
	High	5670	5670.010800	10.80	113.40	-102.60
Band 3	Low	5755	5755.005500	5.50	115.10	-109.60
	High	5795	5795.006400	6.40	115.90	-109.50

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