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

Report No.: T150917S01-RP1

For

RetinaVue 100 Imager Kit

Model: RetinaVue 100 Imager

Trade Name: Welch Allyn

Issued for

Medimaging Integrated Solution Inc.

1F,No.7, R&D Rd. II, Hsinchu Science Park, Hsinchu, Taiwan 30076, R.O.C.

Issued by

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Issued Date: December 23, 2015



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Revision History

Report No.: T150917S01-RP1

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	12/18/2015	Initial Issue	All Page 93	Gloria Chang
01	12/23/2015	Added KDB Rule in Report	P.8	Gloria Chang

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1. TEST REPORT CERTIFICATION

Applicant : Medimaging Integrated Solution Inc.

Address : 1F,No.7, R&D Rd. II, Hsinchu Science Park, Hsinchu,

Report No.: T150917S01-RP1

Taiwan 30076, R.O.C.

Equipment Under Test: Retina Vue 100 Imager Kit

Model : Retina Vue 100 Imager

Trade Name : Welch Allyn

Tested Date : September 17 ~ November 09, 2015

APPLICABLE STANDARD		
Standard	Test Result	
FCC Part 15 Subpart C AND	PASS	
ANSI C63.10:2013	FASS	

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

Approved by:

Sb. Lu

Sr. Engineer

Reviewed by:

Gundam Lin

Sr. Engineer

2. EUT DESCRIPTION

Product Name	RetinaVue 100 Imager Kit
Model Number	RetinaVue 100 Imager
Identify Number	T150917S01
Received Date September 17, 2015	
Francis Banas	IEEE 802.11b/g, 802.11gn HT20 Mode: 2412MHz ~ 2462MHz
Frequency Range	IEEE 802.11gn HT40 Mode: 2422MHz ~ 2452MHz
	IEEE 802.11b Mode: 19.19 dBm (0.0830 W)
Transmit Dawar	IEEE 802.11g Mode: 23.67 dBm (0.2328 W)
Transmit Power	IEEE 802.11gn HT20 Mode: 22.63 dBm (0.1832 W)
	IEEE 802.11gn HT40 Mode: 22.01 dBm (0.1589 W)
Channel Spacing	5MHz
Channel Number	IEEE 802.11b/g, 802.11gn HT20 Mode: 11 Channels
Channel Number	IEEE 802.11gn HT40 Mode: 7 Channels
	IEEE 802.11b Mode: up to 11 Mbps
	IEEE 802.11g Mode: up to 54 Mbps
Transmit Data Rate	IEEE 802.11gn HT20 Mode (800ns GI): up to 65.00 Mbps
Transiiii Dala Rale	IEEE 802.11gn HT20 Mode (400ns GI): up to 72.20 Mbps
	IEEE 802.11gn HT40 Mode (800ns GI): up to 135.0 Mbps
	IEEE 802.11gn HT40 Mode (400ns GI): up to 150.00 Mbps
	IEEE 802.11b Mode: DSSS (CCK, DQPSK, DBPSK)
Type of Modulation	IEEE 802.11g Mode: OFDM (64QAM, 16QAM, QPSK, BPSK)
Type of Modulation	IEEE 802.11gn HT20/40 Mode:
	OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Type	PCB Antenna x 1, Antenna Gain : 1.3dBi
Power Rating	3.6Vdc, 2000mAh (For Battery)
Fower Nating	5Vdc (For Charging)
Test Voltage	120Vac, 60Hz
DC Power Cable Type	Shielded micro USB to USB cable, 2m (Detachable), with two ferrite core
I/O Port	EUT : SD Card Port x 1, F/W Port x 1, Charging Connector x 1 Ducking : Micro USB Port x 1, Charging Connector x 1

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Power Adapter:

No.	Manufacturer	Model No.	Power Input	Power Output
1	ENG	3A-10AWU05	100-240Vac, 50-60Hz 0.3A	5Vdc 2.0A

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. This submittal(s) (test report) is intended for FCC ID: 2AFB3WA-WEC100 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. DESCRIPTION OF TEST MODES

The EUT is a 802.11b/g/n transceiver in RetinaVue 100 Imager Kit.

IEEE 802.11b/g, 802.11gn HT20/HT40 Mode: 1TX / 1RX

Conducted Emission / Radiated Emission Test (Below 1 GHz)

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

N	ο.	Pre-Test Mode
<i>-</i>	1	TX Mode
2	2	Normal Operating with Cradle (Camera + Charging with Power Adapter)

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

Final Test Mode		
Emission	Radiated Emission	Mode 1
E1111881011	Conducted Emission	Mode 2

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

Conducted / Radiated Emission Test (Above 1 GHz)

IEEE 802.11b/g, 802.11gn HT20 Mode:

The EUT had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)	
Low	2412	
Middle	2437	
High	2462	

IEEE 802.11b Mode: 1Mbps data rate (worst case) was chosen for full testing.

IEEE 802.11g Mode: 6Mbps data rate (worst case) was chosen for full testing.

IEEE 802.11gn HT20 Mode: 6.5Mbps data rate (worst case) was chosen for full testing.

IEEE 802.11gn HT40 Mode:

The EUT had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)	
Low	2422	
Middle	2437	
High	2452	

IEEE 802.11gn HT40 Mode: 13.5Mbps data rate (worst case) was chosen for full testing. **Remark:** The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X, Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10:2013 and FCC CFR 47, 15.207, 15.209, 15.247 and KDB Publication 558074 D01 (DTS Measurement Guidance) v03r03.

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5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

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

No.989-1, Wenshan Rd., Shangshan Village,

Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

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

Remark: FCC Designation Number TW1027.

5.3 MEASUREMENT UNCERTAINTY

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

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

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

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

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

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.
1	DC Power Supply	HONGSHENG	DPS-305CM	
2	Transcend 8G	SD Card		
3	Notebook PC	TOSHIBA	PORTEGE R30-A	7F097011H
4	AC750 Wireless Dual Band Gigabit Cloud Router	TP-LINK	Archer C2	214C316003274

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No.	Signal Cable Description	
1	Non-shielded AC power cable, 1.8m × 1	
2	Non-shielded DC power cable, 1m x 1	

SETUP DIAGRAM FOR TESTS

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

EUT OPERATING CONDITION

RF Mode:

- 1. EUT & peripherals setup diagram is shown in appendix setup photos.
- 2. TX Mode:
 - ⇒ **TX Data Rate:** 1Mbps Bandwidth 20 (IEEE 802.11b Mode)

6Mbps Bandwidth 20 (IEEE 802.11g Mode)

6.5Mbps Bandwidth 20 (IEEE 802.11gn HT20 Mode)

13.5Mbps Bandwidth 40 (IEEE 802.11gn HT40 Mode)

⇒ Power control

IEEE 802.11b Channel Low (2412MHz) Power set 48

IEEE 802.11b Channel Mid (2437MHz) Power set 44

IEEE 802.11b Channel High (2462MHz) Power set 41

IEEE 802.11g Channel Low (2412MHz) Power set 54

IEEE 802.11g Channel Mid (2437MHz) Power set 55

IEEE 802.11g Channel High (2462MHz) Power set 54

IEEE 802.11gn HT20 Channel Low (2412MHz) Power set 51

IEEE 802.11gn HT20 Channel Mid (2437MHz) Power set 53

IEEE 802.11gn HT20 Channel High (2462MHz) Power set 52

IEEE 802.11gn HT40 Channel Low (2422MHz) Power set 52

IEEE 802.11gn HT40 Channel Mid (2437MHz) Power set 53

IEEE 802.11gn HT40 Channel High (2452MHz) Power set 51

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

Normal Mode:

- 1. EUT & peripherals setup diagram is shown in appendix setup photos.
- 2. Turn on the power of all equipments.
- 3. Charging dock micro USB link to adapter charging.
- 4. EUT DC port link to charging dock.
- 5. EUT use camera.
- 6. EUT & Notebook PC WiFi link to router, EUT & Notebook PC IP DHCP (192.168.0.X).

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- 7. Notebook PC ping EUT.
- 8. All of the functions are under run.
- 9. Start test.

7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMITS

§ 15.247(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

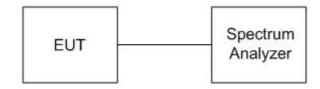
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TEST EQUIPMENT

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

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

TEST SETUP



TEST PROCEDURE

- 1. The transmitter output was connected to a spectrum analyzer.
- 2. Set RBW = 100 kHz.
- 3. Set the video bandwidth (VBW) \geq 3 x RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold.
- 6. Sweep = auto couple.
- 7. Allow the trace to stabilize.
- 8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.0100	500	PASS
Middle	2437	9.5680	500	PASS
High	2462	10.0700	500	PASS

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.5700	500	PASS
Middle	2437	16.5400	500	PASS
High	2462	16.5700	500	PASS

IEEE 802.11gn HT20 Mode

••9						
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result		
Low	2412	16.5700	500	PASS		
Middle	2437	16.5200	500	PASS		
High	2462	16.5300	500	PASS		

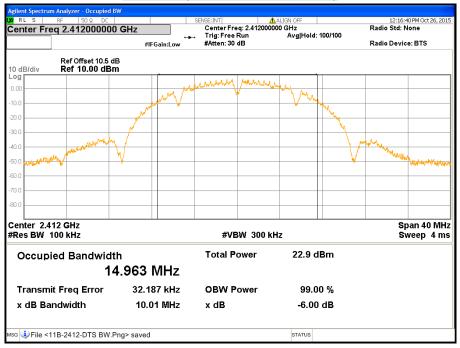
IEEE 802.11gn HT40 Mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2422	36.3300	500	PASS
Middle	2437	36.3400	500	PASS
High	2452	36.3200	500	PASS

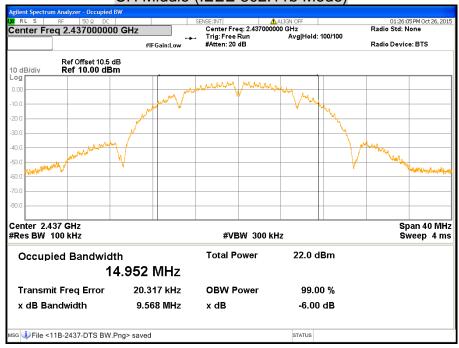
FCC ID: 2AFB3WA-WEC100

6dB BANDWIDTH

CH Low (IEEE 802.11b Mode)

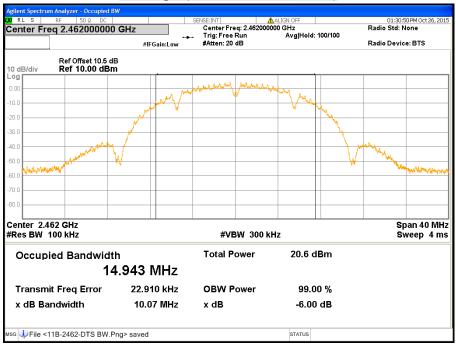


CH Middle (IEEE 802.11b Mode)



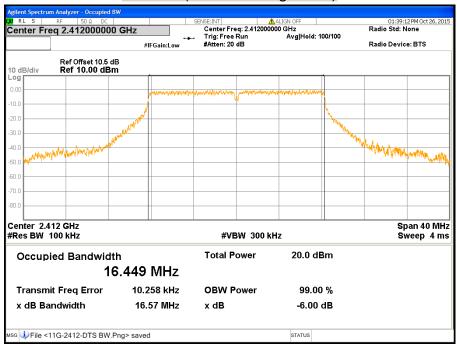
FCC ID: 2AFB3WA-WEC100

CH High (IEEE 802.11b Mode)

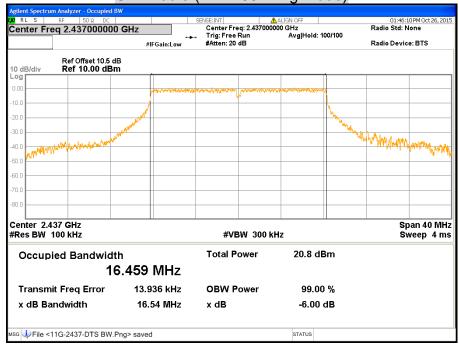


Compliance Certification Services Inc. FCC ID: 2AFB3WA-WEC100

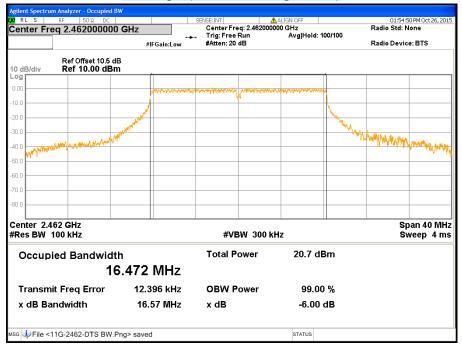
CH Low (IEEE 802.11g Mode)



CH Middle (IEEE 802.11g Mode)

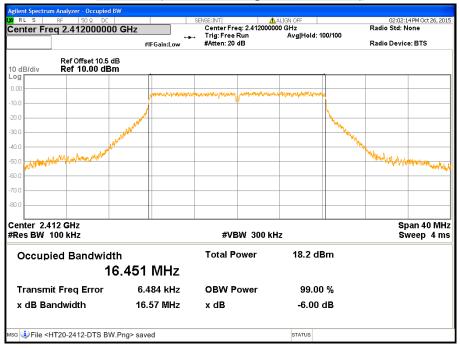


CH High (IEEE 802.11g Mode)

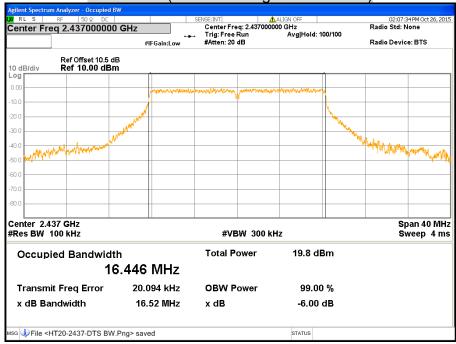




CH Low (IEEE 802.11gn HT20 Mode)

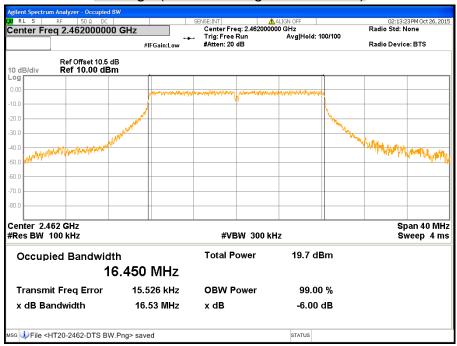


CH Middle (IEEE 802.11gn HT20 Mode)

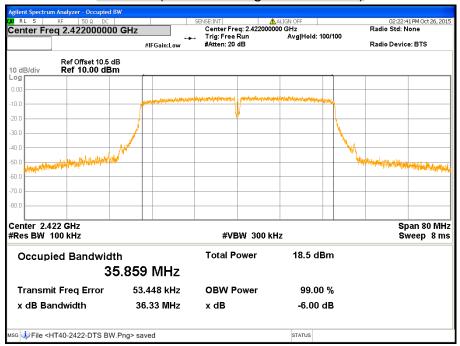


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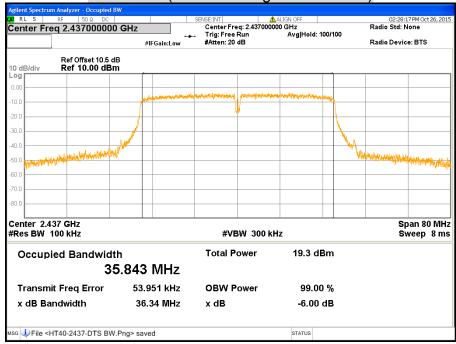
CH High (IEEE 802.11gn HT20 Mode)



CH Low (IEEE 802.11gn HT40 Mode)

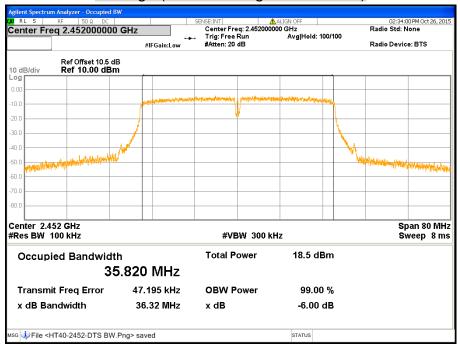


CH Middle (IEEE 802.11gn HT40 Mode)



Compliance Certification Services Inc. FCC ID: 2AFB3WA-WEC100

CH High (IEEE 802.11gn HT40 Mode)



7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following:

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§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

§ KDB 662911: For power measurements on IEEE 802.11 devices

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

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

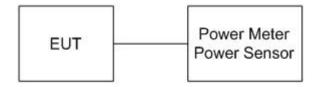
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \ge 5$.

TEST EQUIPMENT

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

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

TEST SETUP



TEST PROCEDURE

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

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TEST RESULTS

IEEE 802.11b Mode

	Channel	Peak l	Power	Peak Pow	er Limit	
Channel	Frequency (MHz)	(dBm)	(W)	(dBm)	(W)	Result
Low	2412	19.19	0.0830	30.00	1.0000	PASS
Middle	2437	18.02	0.0634	30.00	1.0000	PASS
High	2462	17.14	0.0518	30.00	1.0000	PASS

Remark:

- 1. At finial test to get the worst-case emission at 1Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11g Mode

	Channel	Peak l	Power	Peak Pov	wer Limit	
Channel	Frequency (MHz)	(dBm)	(W)	(dBm)	(W)	Result
Low	2412	23.24	0.2109	30.00	1.0000	PASS
Middle	2437	23.67	0.2328	30.00	1.0000	PASS
High	2462	23.43	0.2203	30.00	1.0000	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

IEEE 802.11an HT20 Mode

	Channel	Peak l	Power	Peak Pov	wer Limit	
Channel	Frequency (MHz)	(dBm)	(W)	(dBm)	(W)	Result
Low	2412	21.31	0.1352	30.00	1.0000	PASS
Middle	2437	22.61	0.1824	30.00	1.0000	PASS
High	2462	22.63	0.1832	30.00	1.0000	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

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IEEE 802.11gn HT40 Mode

	Channel	Peak	Power	Peak Pov	wer Limit	
Channel	Frequency (MHz)	(dBm)	(W)	(dBm)	(W)	Pass / Fail
Low	2422	21.30	0.1349	30.00	1.0000	PASS
Middle	2437	22.01	0.1589	30.00	1.0000	PASS
High	2452	21.44	0.1393	30.00	1.0000	PASS

Remark:

- 1. At finial test to get the worst-case emission at 13.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

7.3 AVERAGE POWER

LIMITS

None: For reporting purposes only.

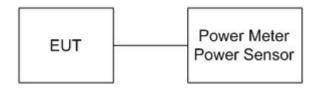
TEST EQUIPMENT

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

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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 average power detection.

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TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2412	16.53
Middle	2437	15.27
High	2462	14.30

Remark:

- 1. At finial test to get the worst-case emission at 1Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2412	14.27
Middle	2437	15.15
High	2462	15.13

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11gn HT20 Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2412	12.65
Middle	2437	14.63
High	2462	14.21

Remark:

- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11gn HT40 Mode

Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2422	12.91
Middle	2437	13.74
High	2452	12.96

Remark:

- 1. At finial test to get the worst-case emission at 13.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

7.4 POWER SPECTRAL DENSITY

LIMITS

§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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TEST EQUIPMENT

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

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

TEST SETUP



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Set analyzer center frequency to DTS channel center frequency.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 5. Set the VBW \geq 3 x RBW.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST RESULTS

IEEE 802.11b Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Limit (dBm)	Result
Low	2412	-3.69	8	PASS
Middle	2437	-4.72	8	PASS
High	2462	-5.94	8	PASS

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Remark:

- 1. At finial test to get the worst-case emission at 1Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11g Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Limit (dBm)	Result
Low	2412	-7.10	8	PASS
Middle	2437	-6.64	8	PASS
High	2462	-6.26	8	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

IEEE 802.11an HT20 Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Limit (dBm)	Result
Low	2412	-7.15	8	PASS
Middle	2437	-6.71	8	PASS
High	2462	-6.28	8	PASS

Remark:

- 1. At finial test to get the worst-case emission at 6.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

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IEEE 802.11gn HT40 Mode

Channel	Channel Frequency (MHz)	Final RF Power Level in 3KHz BW (dBm)	Limit (dBm)	Result
Low	2422	-7.18	8	PASS
Middle	2437	-6.96	8	PASS
High	2452	-6.52	8	PASS

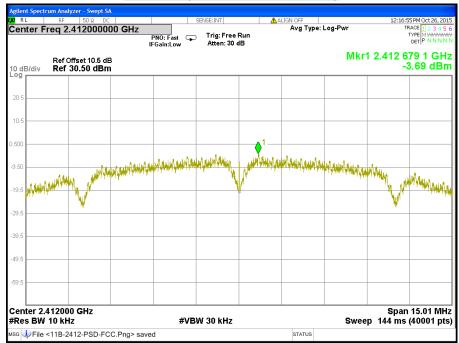
Remark:

- 1. At finial test to get the worst-case emission at 13.5Mbps.
- 2. The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.

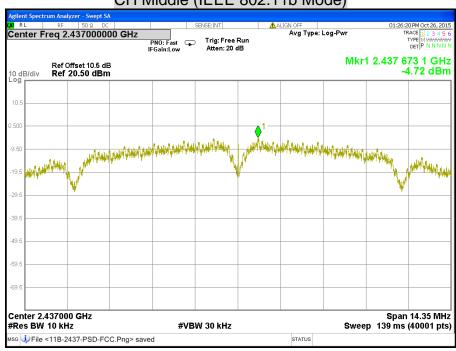
Compliance Certification Services Inc. FCC ID: 2AFB3WA-WEC100

POWER SPECTRAL DENSITY

CH Low (IEEE 802.11b Mode)

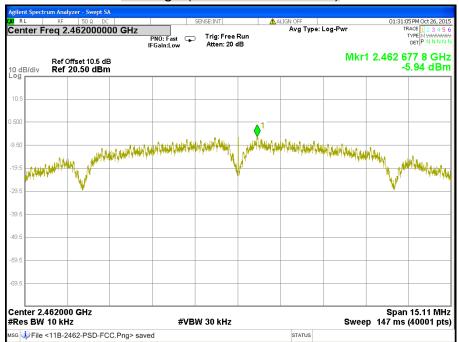


CH Middle (IEEE 802.11b Mode)



FCC ID: 2AFB3WA-WEC100

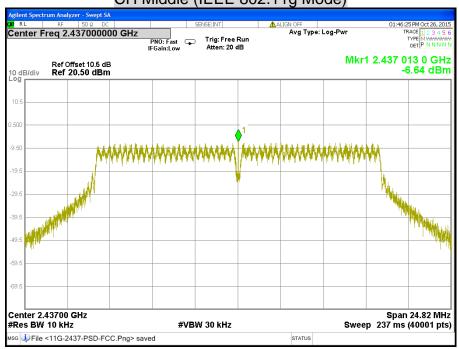
CH High (IEEE 802.11b Mode)



CH Low (IEEE 802.11g Mode)



CH Middle (IEEE 802.11g Mode)



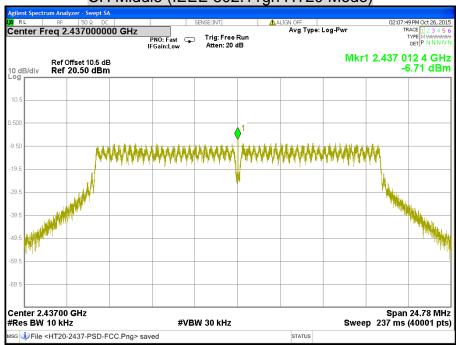
CH High (IEEE 802.11g Mode)



CH Low (IEEE 802.11gn HT20 Mode)



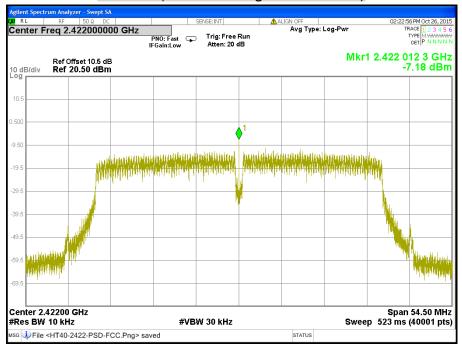
CH Middle (IEEE 802.11gn HT20 Mode)



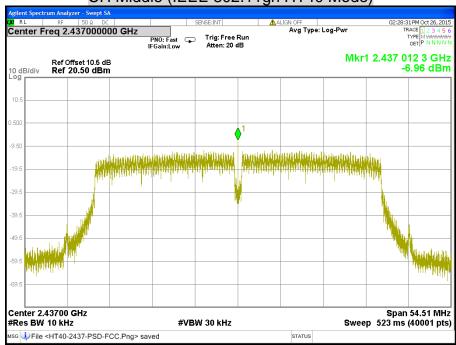
CH High (IEEE 802.11gn HT20 Mode)



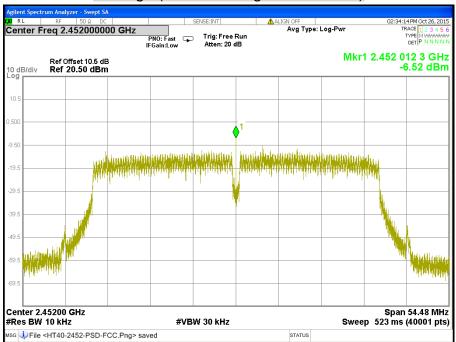
CH Low (IEEE 802.11gn HT40 Mode)



CH Middle (IEEE 802.11gn HT40 Mode)



CH High (IEEE 802.11gn HT40 Mode)



7.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

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TEST EQUIPMENT

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

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

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

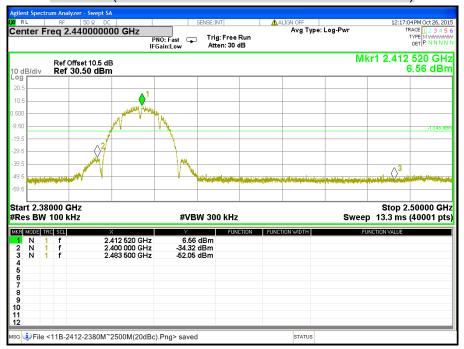
The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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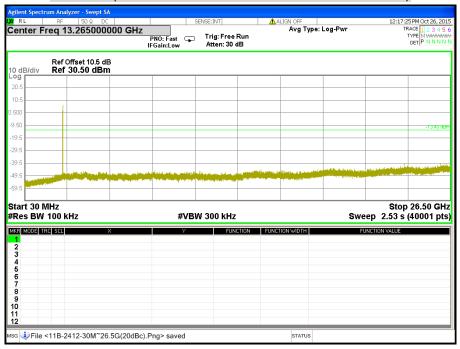
TEST RESULTS

OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode)

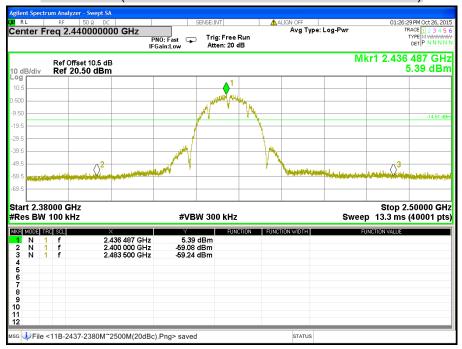


CH Low (30MHz ~ 26.5GHz / IEEE 802.11b Mode)

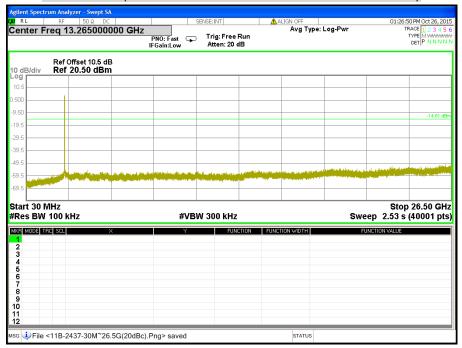




CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode)

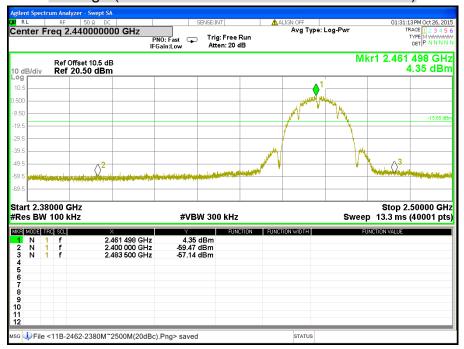


CH Middle (30MHz ~ 26.5GHz / IEEE 802.11b Mode)

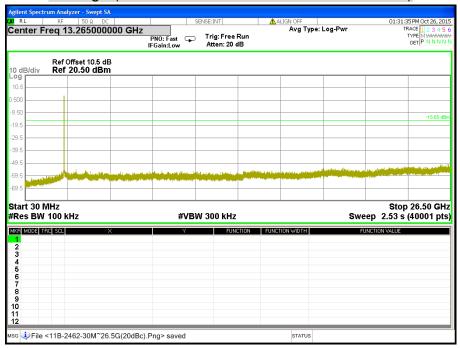




CH High (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode)

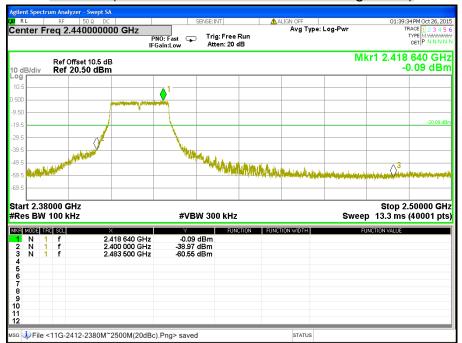


CH High (30MHz ~ 26.5GHz / IEEE 802.11b Mode)

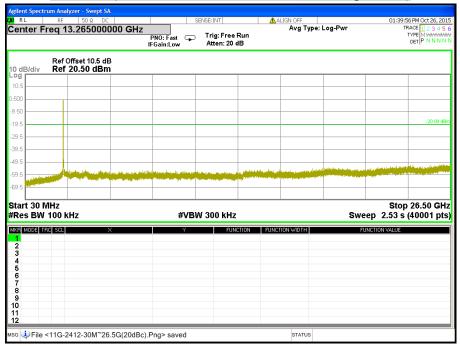




CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode)

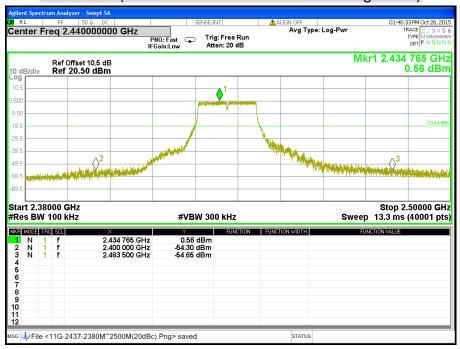


CH Low (30MHz ~ 26.5GHz / IEEE 802.11g Mode)

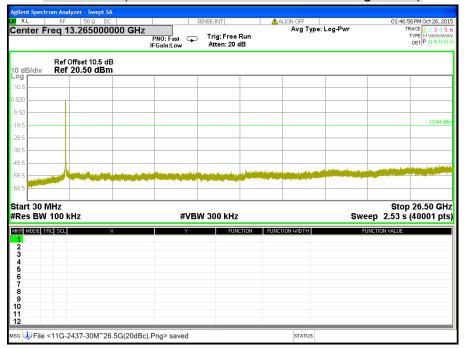




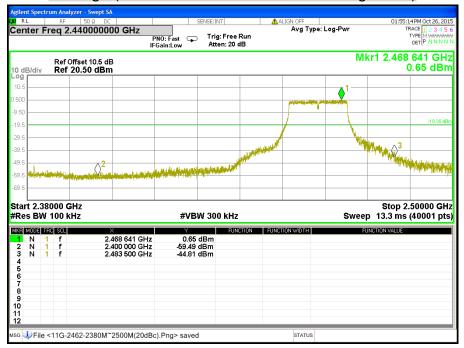
CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode)



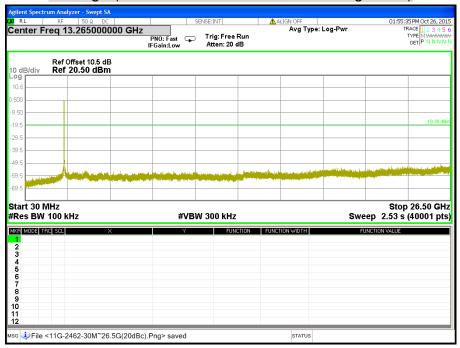
CH Middle (30MHz ~ 26.5GHz / IEEE 802.11g Mode)



CH High (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode)

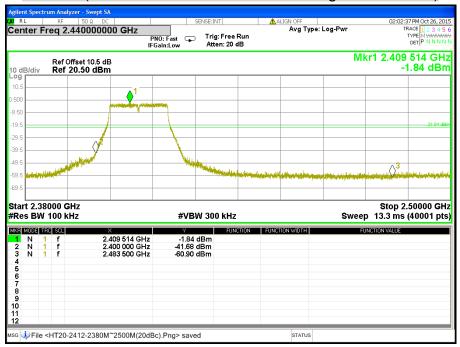


CH High (30MHz ~ 26.5GHz / IEEE 802.11g Mode)

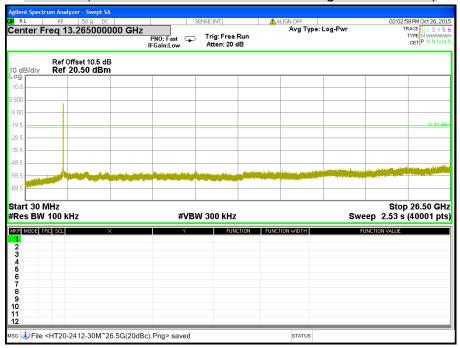




CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode)

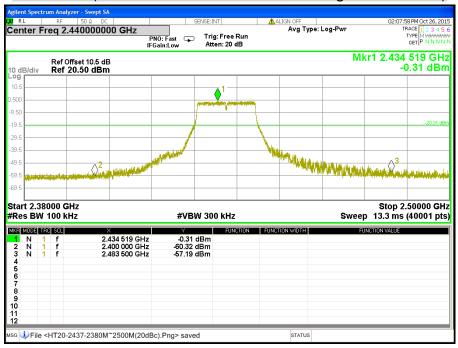


CH Low (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode)

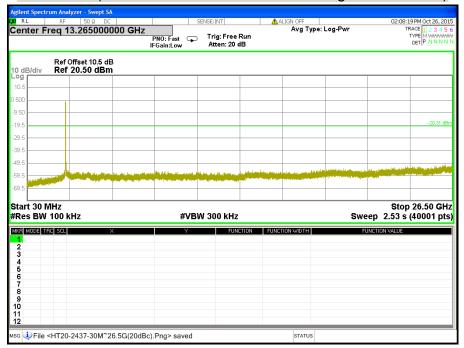




CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode)

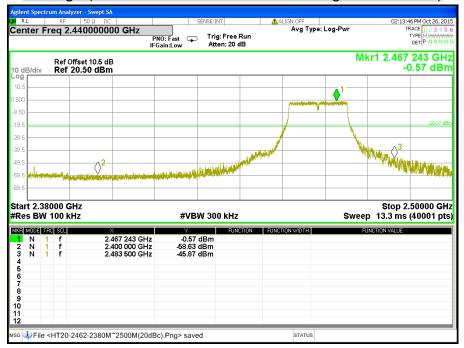


CH Middle (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode)

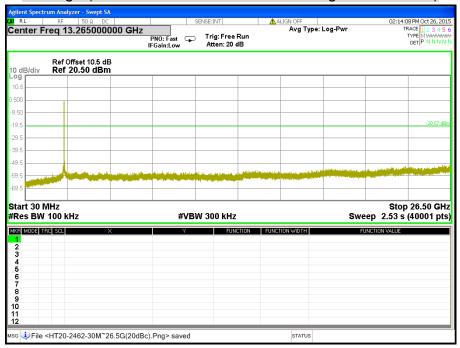




CH High (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT20 Mode)

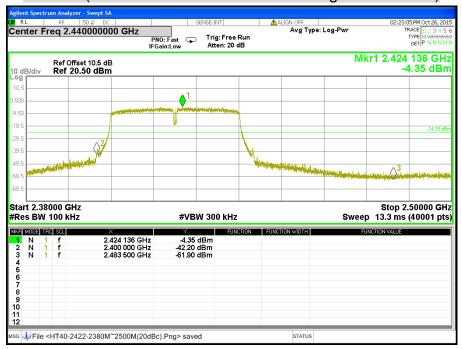


CH High (30MHz ~ 26.5GHz / IEEE 802.11gn HT20 Mode)

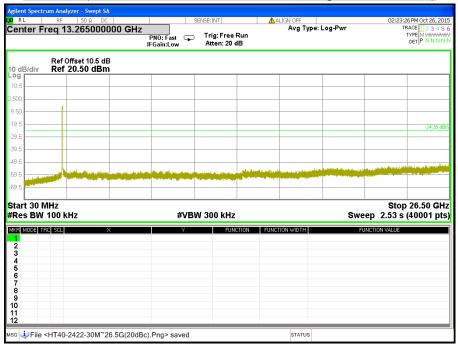




CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode)

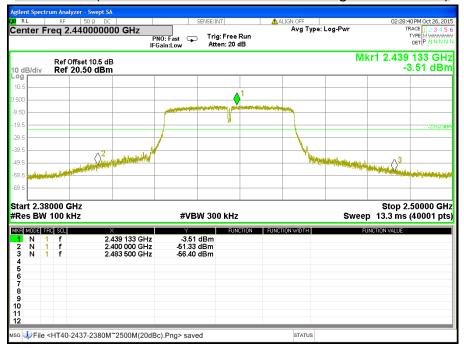


CH Low (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode)

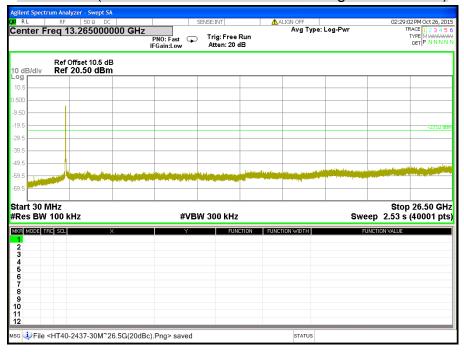




CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode)

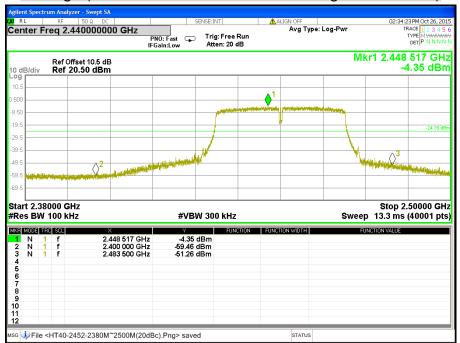


CH Middle (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode)

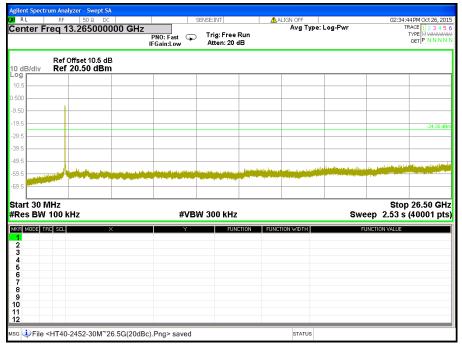




CH High (2.38GHz ~ 2.5GHz / IEEE 802.11gn HT40 Mode)



CH High (30MHz ~ 26.5GHz / IEEE 802.11gn HT40 Mode)



7.6 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:

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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), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 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_C

Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY45280064	03/26/2016
EMI Test Receiver	Rohde & Schwarz	ESCI	101387	10/06/2016
Bi-log Antenna	TESEQ	CBL 6112D	35404	08/04/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078732	07/14/2016
Horn Antenna	COM-POWER	AH-840	03077	12/17/2015
Pre-Amplifier	EMCI	EMC001625	980243	04/12/2016
Pre-Amplifier	COM-POWER	PAM-118A	551043	04/12/2016
LOOP Antenna	COM-POWER	AL-130	121060	05/24/2016

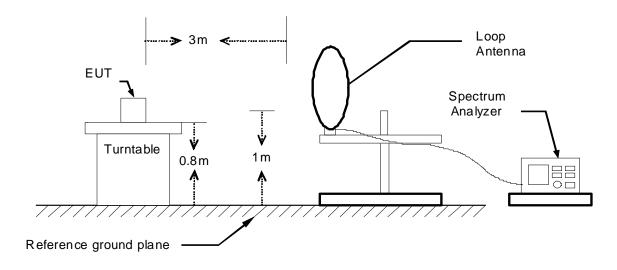
Remark: Each piece of equipment is scheduled for calibration once a year.

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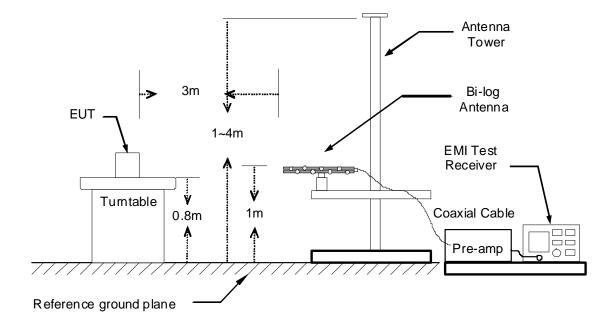
TEST SETUP

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

9kHz ~ 30MHz

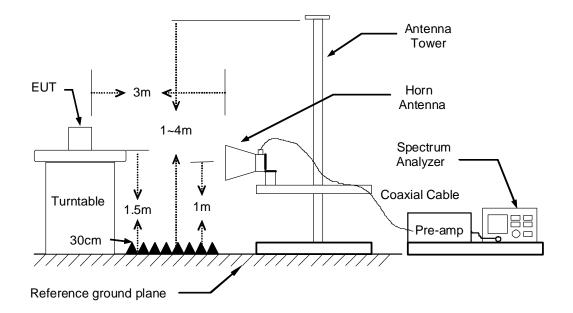


30MHz ~ 1GHz



FCC ID: 2AFB3WA-WEC100 Report No.: T150917S01-RP1

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



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.

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- 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	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	Mode 1	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
57.16	58. 63	-24.03	34.60	40.00	-5.40	20/3	200	Peak
81.41	53.44	-23.36	30.08	40.00	-9.92	194	200	Peak
224.00	61.13	-19.76	41.37	46.00	-4.63	217	100	QP
299.66	53.12	-16.30	36.82	46.00	-9.18	112	100	Peak
378.23	48.49	-14.05	34.44	46.00	-11.56	286	200	Peak
506.27	42.47	-11.79	30.68	46.00	-15.32	151	200	Peak
799.21	42.06	-8.61	33.45	46.00	-12.55	189	100	Peak

966Chamber_C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
======		=======				=======		
31.94	48.09	-12.34	35.75	40.00	-4.25	42	100	Peak
58.13	58.30	-24.25	34.05	40.00	-5.95	297	100	QP
224.00	54.50	-19.76	34.74	46.00	-11.26	224	200	Peak
299.66	52.37	-16.30	36.07	46.00	-9.93	248	200	Peak
493.66	53.02	-12.01	41.01	46.00	-4.99	287	100	Peak
506.27	52.42	-11.79	40.63	46.00	-5.37	37	100	Peak
930.16	42.42	-7.28	35.14	46.00	-10.86	207	100	Peak

Remark:

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

FCC ID: 2AFB3WA-WEC100 Report No.: T150917S01-RP1

Above 1 GHz

Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11b TX / CH Low	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1534.00	50.46	-0.87	49.59	74.00	-24.41	243	100	Peak
2214.00	46.21	3.91	50.12	74.00	-23.88	218	100	Peak
2496.00	44.16	4.51	48.67	74.00	-25.33	360	200	Peak
4830.00	52.08	-0.22	51.86	74.00	-22.14	360	100	Peak
7665.00	44.31	2.91	47.22	74.00	-26.78	55	100	Peak
10650.00	43.56	6.15	49.71	74.00	-24.29	55	100	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
 1536.00	49.39	-0.86	48.53	74.00	-25.47	168	100	Peak
223 8.00	49.39 44.69	3.96	48.65	74.00	-25.47 -25.35	125	200	Peak
2514.00	44.51	4.55	49.06	74.00	-24.94	32	200	Peak
4830.00	52.80	-0.22	52.58	54.00	-1.42	236	200	Average
4830.00	54.29	-0.22	54.07	74.00	-19.93	236	200	Peak
69 75.00	43.80	2.60	46.40	74.00	-27.60	30/6	100	Peak
0110.00	43.70	5.13	48.83	74.00	-25.17	282	100	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)



Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11b TX / CH Middle	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1534.00	51.19	-0.87	50. 32	74.00	-23.68	245	100	Peak
2174.00	45.70	3.82	49.52	74.00	-24.48	302	100	Peak
2500.00	45.48	4.52	50.00	74.00	-24.00	191	200	Peak
4875.00	51.20	-0.06	51.14	74.00	-22.86	10	100	Peak
7740.00	43.82	2.95	46.77	74.00	-27.23	72	100	Peak
11340.00	42.82	7.06	49.88	74.00	-24.12	145	200	Peak

966Chamber_C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1536.00	48.17	-0.86	47.31	74.00	-26.69	225	100	Peak
2252.00	46.18	3.99	50.17	74.00	-23.83	250	100	Peak
2514.00	44.32	4.55	48.87	74.00	-25.13	35	200	Peak
4875.00	52.45	-0.06	52.39	54.00	-1.61	238	100	Average
4875.00	54.75	-0.06	54.69	74.00	-19.31	238	100	Peak
7740.00	43.77	2.95	46.72	74.00	-27.28	351	100	Peak
10050.00	44.15	5.02	49.17	74.00	-24.83	218	200	Peak

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11b TX / CH High	Temp. & Humidity	25°C, 50%

Report No.: T150917S01-RP1

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1536.00	50.99	-0.86	50.13	74.00	-23.87	243	100	Peak
2362.00	44.78	4.22	49.00	74.00	-25.00	170	200	Peak
2530.00	44.81	4.58	49.39	74.00	-24.61	120	100	Peak
4920.00	50.64	0.10	50.74	74.00	-23.26	169	100	Peak
7050.00	44.28	2.61	46.89	74.00	-27.11	130	200	Peak
10320.00	43.97	5.53	49.50	74.00	-24.50	206	100	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
======						=======		
1536.00	49.44	-0.86	48.58	74.00	-25.42	205	100	Peak
2340.00	45.26	4.18	49.44	74.00	-24.56	256	100	Peak
2578.00	44.49	4.67	49.16	74.00	-24.84	32	100	Peak
4920.00	53.47	0.10	53.57	54.00	-0.43	235	100	Average
4920.00	56.18	0.10	56.28	74.00	-17.72	235	100	Peak
7725.00	44.75	2.94	47.69	74.00	-26.31	97	200	Peak
1160.00	43.24	6.90	50.14	74.00	-23.86	335	100	Peak

Remark:

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

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(PK)$

Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11g TX / CH Low	Temp. & Humidity	25°C, 50%

Report No.: T150917S01-RP1

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
4536 88	F4 67	D 06		74 00			4.00	D I-
1536.00 2186.00	51.67 45.64	-0.86 3.85	50.81 49.49	74.00 74.00	-23.19 -24.51	2 44 231	100 100	Peak Peak
29 74.00	44.66	5.44	50.10	74.00	-23.90	154	200	Peak
4830.00	47.28	-0.22	47.06	74.00	-26.94	360	200	Peak
8565.00	43.46	3.75	47.21	74.00	-26.79	197	100	Peak
1295.00	43.10	7.02	50.12	74.00	-23.88	72	200	Peak

966Chamber_C at 3Meter / Vertical

Freq.	Reading	C.F.	Result	Limit	Margin	Azimuth	Height	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	deg	cm	
1534.00	48.70	-0.87	47.83	74.00	-26.17	199	100	Peak
2282.00	46.17	4.05	50.22	74.00	-23.78	293	200	Peak
2976.00	44.23	5.44	49.67	74.00	-24.33	116	100	Peak
4830.00	47.10	-0.22	46.88	74.00	-27.12	249	100	Peak
7005.00	44.84	2.59	47.43	74.00	-26.57	22 0	200	Peak
11340.00	42.75	7.06	49.81	74.00	-24.19	299	100	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11g TX / CH Middle	Temp. & Humidity	25°C, 50%

Report No.: T150917S01-RP1

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1536.00	50.33	-0.86	49.47	74.00	-24.53	241	100	Peak
2378.00	46.52	4.26	50.78	74.00	-23.22	217	200	Peak
2858.00	44.15	5.21	49.36	74.00	-24.64	202	200	Peak
4875.00	51.50	-0.06	51.44	74.00	-22.56	165	100	Peak
7740.00	43.37	2.95	46.32	74.00	-27.68	54	200	Peak
11235.00	42.53	6.97	49.50	74.00	-24.50	231	200	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
 1536.00	5 0. 29	-0.86	49.43	74.00	-24.57	226	100	Peak
2390.00	37.90	4.28	42.18	54.00	-11.82	236	200	Average
239 0.00 2484.00	52.43 47.17	4.28 4.49	56.71 51.66	74.00 74.00	-17.29 -22.34	236	200 200	Peak Peak
2464.00 4875.00	51.09	-0.06	51.00	74.00	-22.97	2 44 233	100	Peak
7770.00	43.35	2.97	46.32	74.00	-22.97 -27.68	196	100	Peak
1325.00	42.45	7.04	49.49	74.00	-24.51	288	100	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)



Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11g TX / CH High	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
======						======		
1536.00	50.53	-0.86	49.67	74.00	-24.33	243	100	Peak
2280.00	45.84	4.05	49.89	74.00	-24.11	237	100	Peak
2520.00	45.39	4.56	49.95	74.00	-24.05	29 0	200	Peak
4920.00	40.30	0.10	40.40	54.00	-13.60	9	100	Average
4920.00	52.71	0.10	52.81	74.00	-21.19	9	100	Peak
693 0.00	43.62	2.61	46.23	74.00	-27.77	33 0	200	Peak
9330.00	45.03	4.17	49.20	74.00	-24.80	256	200	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
======						=======		
1536.00	49.67	-0.86	48.81	74.00	-25.19	226	100	Peak
239 0.00	36.10	4.28	40.38	54.00	-13.62	237	200	Average
239 0.00	50.56	4.28	54.84	74.00	-19.16	237	200	Peak
2508.00	46.55	4.54	51.09	74.00	-22.91	243	200	Peak
4920.00	52.41	0.10	52.51	74.00	-21.49	267	100	Peak
7665.00	43.89	2.91	46.80	74.00	-27.20	96	100	Peak
0770.00	43.03	6.36	49.39	74.00	-24.61	306	200	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)



Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11gn HT20 TX / CH Low	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1536.00	52.02	-0.86	51.16	74.00	-22.84	244	100	Peak
2716.00	45.23	4.94	50.17	74.00	-23.83	207	100	Peak
292 0.00	44.92	5.33	50.25	74.00	-23 .75	333	100	Peak
4830.00	44.51	-0.22	44.29	74.00	-29.71	247	200	Peak
7695.00	44.25	2.93	47.18	74.00	-26.82	63	100	Peak
11325.00	43.08	7.04	50.12	74.00	-23.88	357	100	Peak

966Chamber C at 3Meter / Vertical

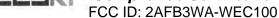
Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1196.00	47.53	-1.08	46.45	74.00	-27.55	308	100	Peak
1536.00	51.20	-0.86	50.34	74.00	-23.66	202	100	Peak
2668.00	33.53	4.85	38.38	54.00	-15.62	340	100	Average
266 8.00	52.32	4.85	57.17	74.00	-16.83	340	100	Peak
4830.00	45.49	-0.22	45.27	74.00	-28.73	248	100	Peak
596 0.00	44.28	2.60	46.88	74.00	-27.12	261	200	Peak
9240.00	44.40	4.18	48.58	74.00	-25.42	242	100	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)



Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11gn HT20 TX / CH Middle	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1196.00	48.15	-1.08	47.07	74.00	-26.93	156	100	Peak
1536.00	51.76	-0.86	50.90	74.00	-23.10	247	100	Peak
239 0.00	47.48	4.28	51.76	74.00	-22.24	219	200	Peak
4875.00	50. 93	-0.06	50.87	74.00	-23.13	9	100	Peak
7605.00	44.40	2.88	47.28	74.00	-26.72	181	200	Peak
.1235.00	42.72	6.97	49.69	74.00	-24.31	109	100	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
======						=======		=======
239 0.00	39.90	4.28	44.18	54.00	-9.82	237	200	Average
239 0.00	55.38	4.28	59.66	74.00	-14.34	237	200	Peak
2483.50	37.75	4.48	42.23	54.00	-11.77	182	200	Average
2483.50	52.30	4.48	56.78	74.00	-17.22	182	200	Peak
2672.00	36.88	4.85	41.73	54.00	-12.27	332	100	Average
26 72.00	51.87	4.85	56.72	74.00	-17.28	332	100	Peak
4875.00	50.57	-0.06	50.51	74.00	-23.49	235	100	Peak
8640.00	43.56	3.83	47.39	74.00	-26.61	359	200	Peak
1310.00	43.38	7.03	50.41	74.00	-23.59	328	200	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11gn HT20 TX / CH High	Temp. & Humidity	25°C, 50%

Report No.: T150917S01-RP1

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2192.00	45.55	3.86	49.41	74.00	-24.59	60	100	Peak
2390.00	44.27	4.28	48.55	74.00	-25.45	146	100	Peak
2 756.00	44.76	5.02	49.78	74.00	-24.22	31	100	Peak
4920.00	49.71	0.10	49.81	74.00	-24.19	165	200	Peak
7755.00	44.24	2.96	47.20	74.00	-26.80	88	200	Peak
11160.00	42.65	6.90	49.55	74.00	-24.45	321	200	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1 5 36 .00	50.68	-0.86	49.82	74.00	-24.18	228	100	Peak
23 76.00	47.01	4.25	51.26	74.00	-22.74	237	200	Peak
239 0.00	47.44	4.28	51.72	74.00	-22.28	237	200	Peak
4920.00	52.06	0.10	52.16	74.00	-21.84	236	100	Peak
7785.00	43.76	2.97	46.73	74.00	-27.27	64	200	Peak
0110.00	43.76	5.13	48.89	74.00	-25.11	156	100	Peak

Remark:

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

Remark Peak = Result(PK) - Limit(PK)



Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11gn HT40 TX / CH Low	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1042.00	48.07	-1.03	47.04	74.00	-26.96	58	100	Peak
1602.00	45.54	-0.24	45.30	74.00	-28.70	136	100	Peak
2130.00	45.95	3 .7 3	49.68	74.00	-24.32	256	100	Peak
4845.00	45.26	-0.17	45.09	74.00	-28.91	162	100	Peak
7755.00	44.40	2.96	47.36	74.00	-26.64	77	200	Peak
10065.00	44.10	5.04	49.14	74.00	-24.86	27	100	Peak

966Chamber_C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
						======		
1534.00	52.87	-0.87	52.00	74.00	-22.00	228	100	Peak
2490.00	35.31	4.50	39.81	54.00	-14.19	245	200	Average
2490.00	53.30	4.50	57.80	74.00	-16.20	245	200	Peak -
26 74.00	47.05	4.86	51.91	74.00	-22.09	340	100	Peak
4845.00	44.39	-0.17	44.22	74.00	-29.78	299	100	Peak
7755.00	43.71	2.96	46.67	74.00	-27.33	155	200	Peak
1310.00	43.07	7.03	50.10	74.00	-23.90	326	200	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)



Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11gn HT40 TX / CH Middle	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2222.00	45.27	3.93	49.20	74.00	-24.80	147	100	Peak
2390.00	47.17	4.28	51.45	74.00	-22.55	217	100	Peak
2614.00	44.61	4.74	49.35	74.00	-24.65	14	200	Peak
4875.00	44.91	-0.06	44.85	74.00	-29.15	231	100	Peak
7635.00	43.60	2.89	46.49	74.00	-27.51	54	100	Peak
10665.00	43.19	6.17	49.36	74.00	-24.64	348	100	Peak

966Chamber_C at 3Meter / Vertical

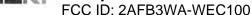
Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
=======						=======		=======
2184.00	45.45	3.84	49.29	74.00	-24.71	188	200	Peak
239 0.00	42.31	4.28	46.59	54.00	-7.41	246	200	Average
239 0.00	54.88	4.28	59.16	74.00	-14.84	246	200	Peak -
2484.00	38.90	4.49	43.39	54.00	-10.61	189	100	Average
2484.00	48.55	4.49	53.04	74.00	-2 0. 96	189	100	Peak
4875.00	45.40	-0.06	45.34	74.00	-28.66	226	100	Peak
7740.00	43.64	2.95	46.59	74.00	-27.41	33 0	200	Peak
0125.00	43.57	5.16	48.73	74.00	-25.27	306	100	Peak

Remark:

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

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)



Product Name	RetinaVue 100 Imager Kit	Test By	Rex Chiu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/23
Test Mode	IEEE 802.11gn HT40 TX / CH High	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
=======						=======		
1086.00	46.39	-1.04	45.35	74.00	-28.65	226	100	Peak
2390.00	46.09	4.28	50.37	74.00	-23.63	166	200	Peak
2932 .00	44.47	5.36	49.83	74.00	-24.17	26	100	Peak
4905.00	45.12	0.04	45.16	74.00	-28.84	186	200	Peak
7035.00	43.66	2.61	46.27	74.00	-27.73	342	100	Peak
11115.00	42.51	6.87	49.38	74.00	-24.62	ø	100	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
======						======		
1536.00	52 .0 6	-0.86	51.20	74.00	-22.80	233	100	Peak
2130.00	47.31	3 .7 3	51.04	74.00	-22.96	217	200	Peak
26 74.00	33.11	4.86	37.97	54.00	-16.03	336	100	Average
26 74.00	50.44	4.86	55.30	74.00	-18.70	336	100	Peak
4905.00	47.19	0.04	47.23	74.00	-26.77	230	200	Peak
693 0.00	44.50	2.61	47.11	74.00	-26.89	279	100	Peak
0155.00	44.05	5.22	49.27	74.00	-24.73	340	100	Peak

Remark:

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

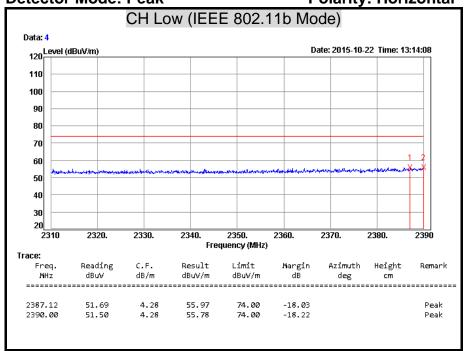
Margin = Result - Limit

Remark Peak = Result(PK) - Limit(PK)

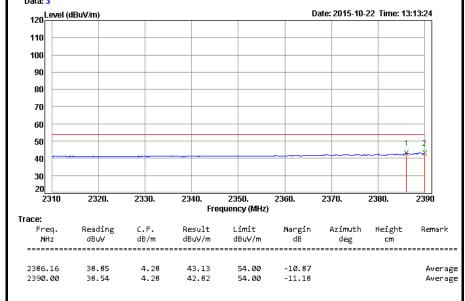
Restricted Band Edges

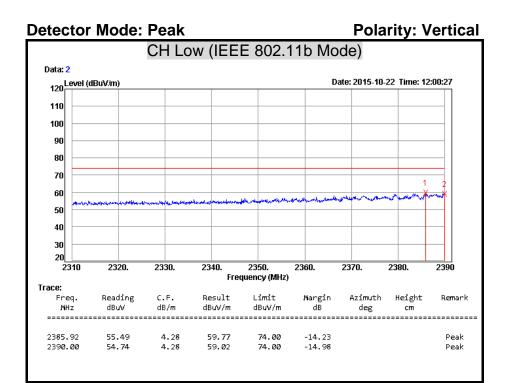
Detector Mode: Peak Polarity: Horizontal

Report No.: T150917S01-RP1

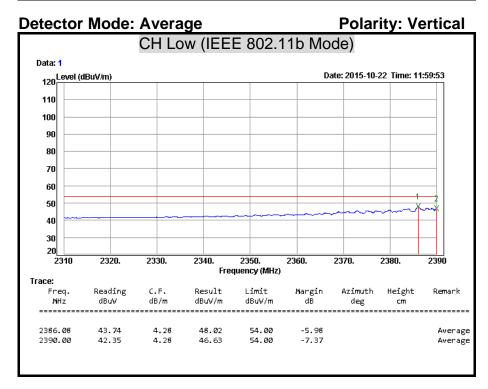


Detector Mode: Average Polarity: Horizontal CH Low (IEEE 802.11b Mode) Data: 3 120 Level (dBuV/m) Date: 2015-10-22 Time: 13:13:24

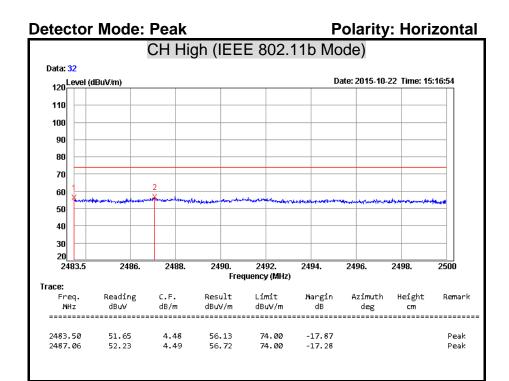


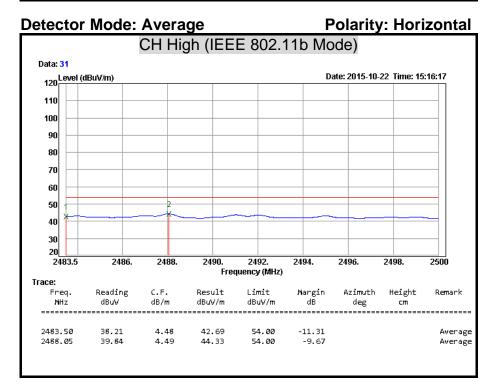


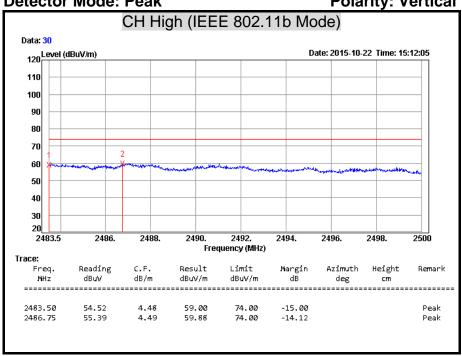
Report No.: T150917S01-RP1

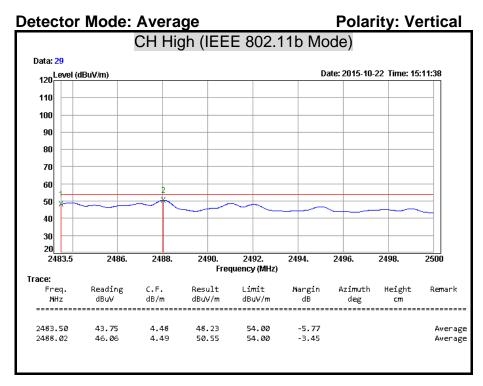


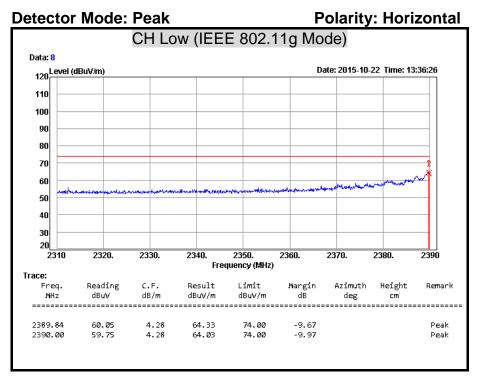
FCC ID: 2AFB3WA-WEC100 Report No.: T150917S01-RP1

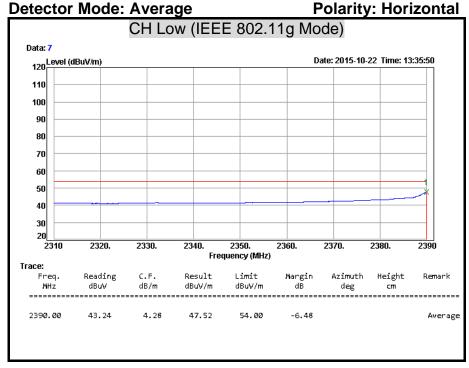




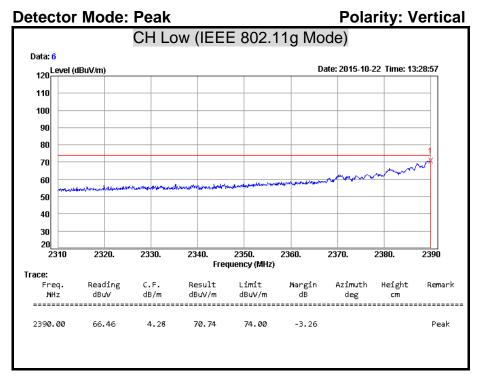


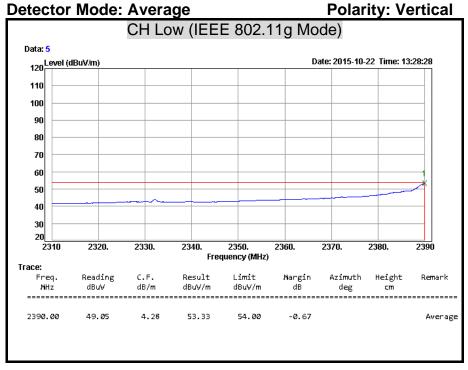




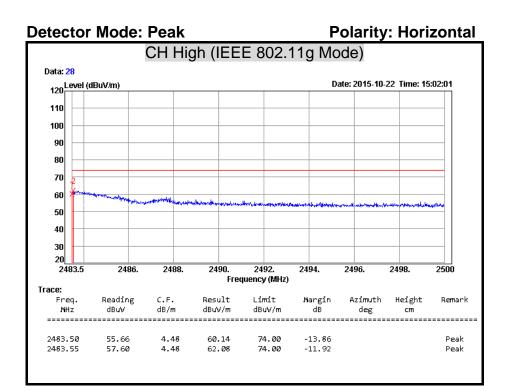




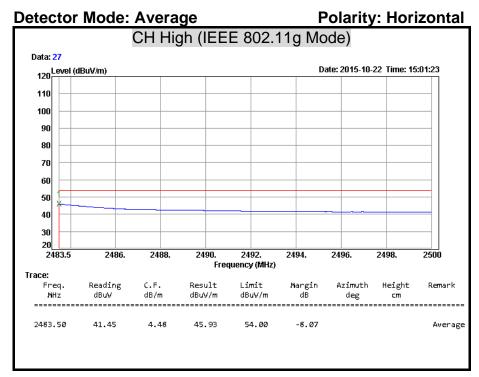


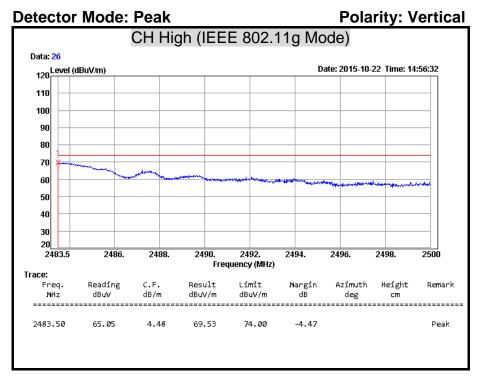


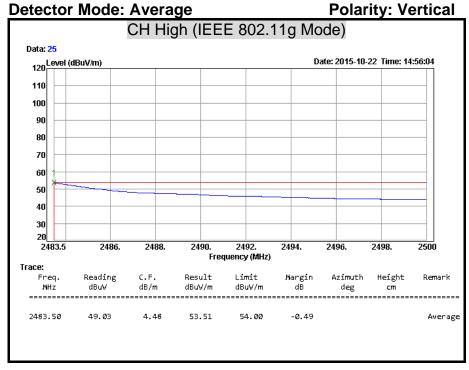
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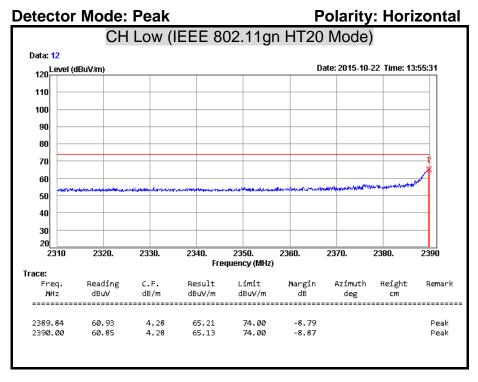


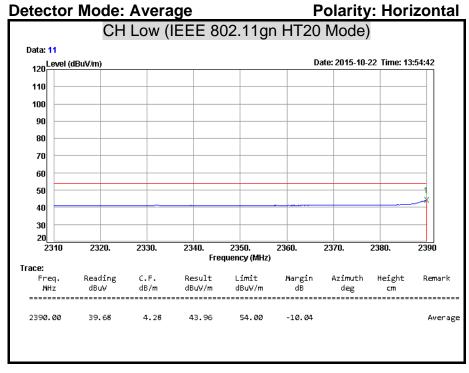
Report No.: T150917S01-RP1

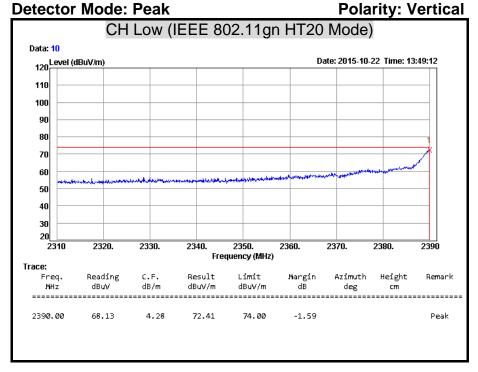


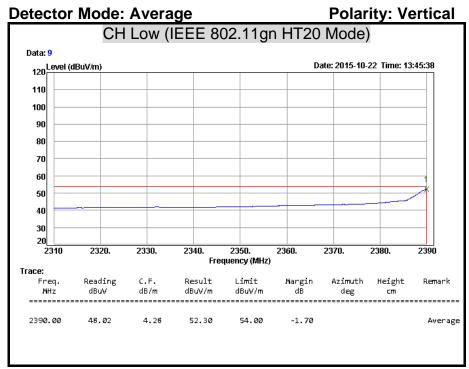




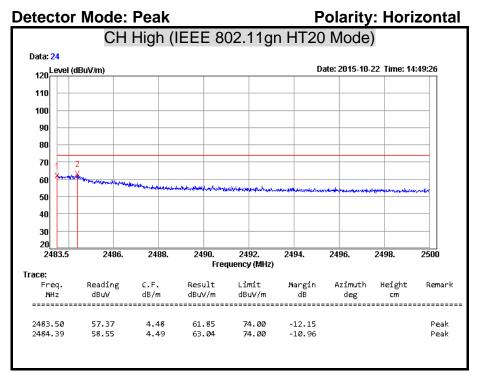


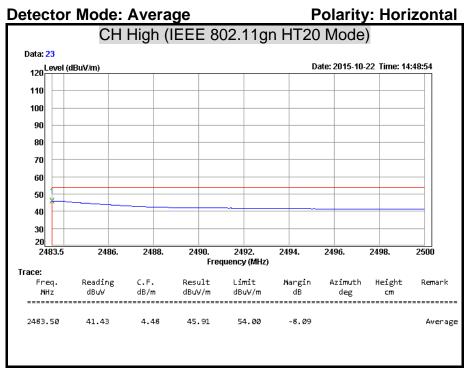


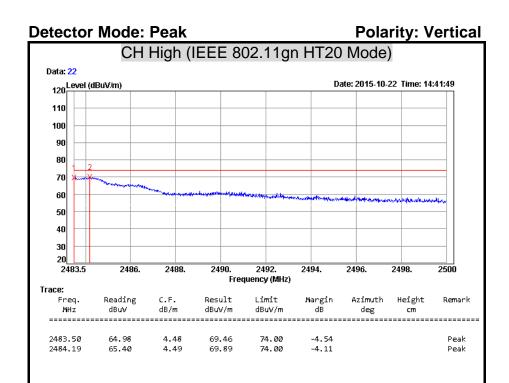


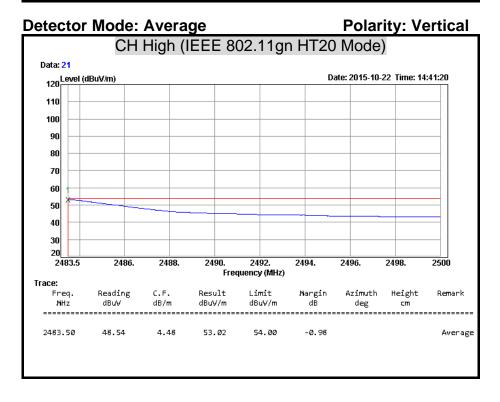


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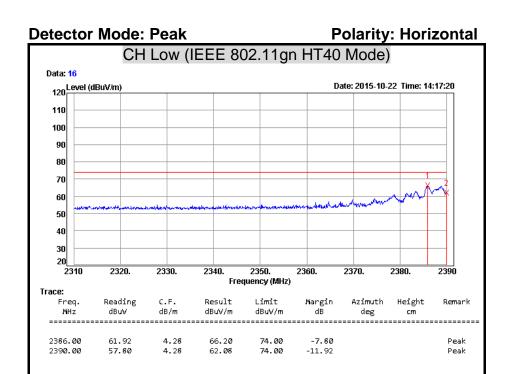




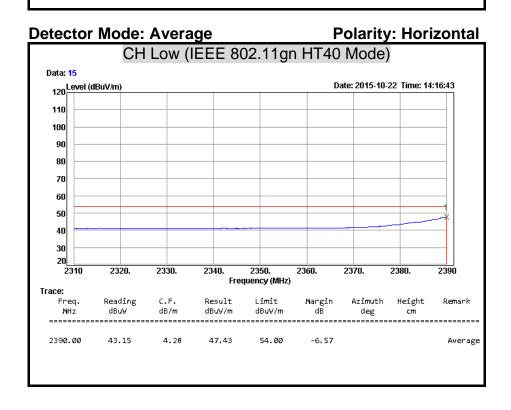


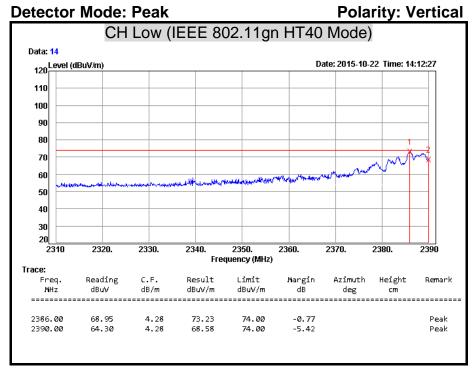


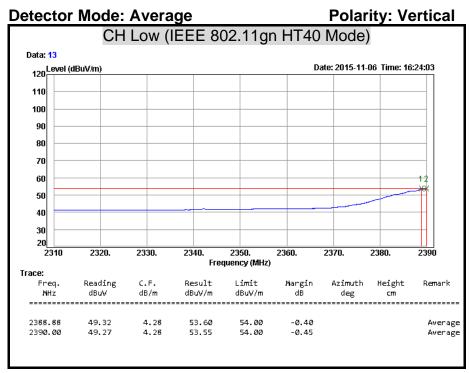
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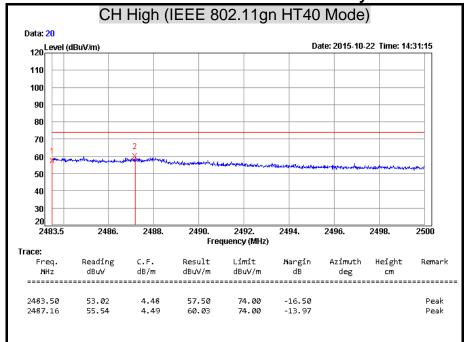
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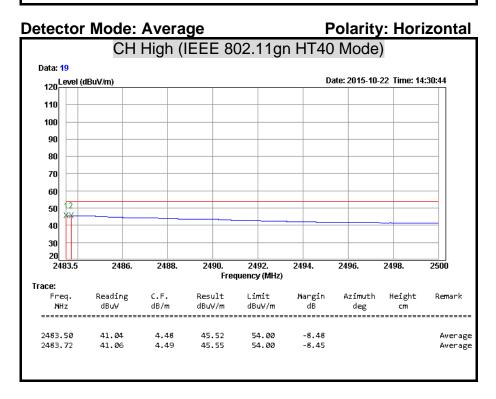


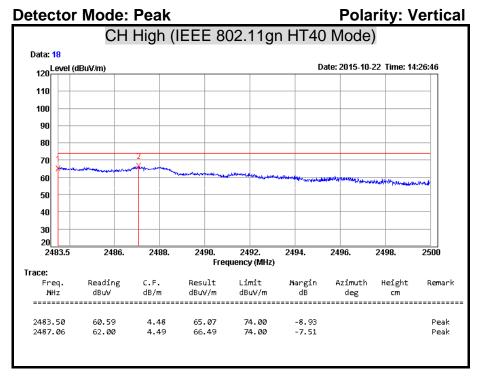


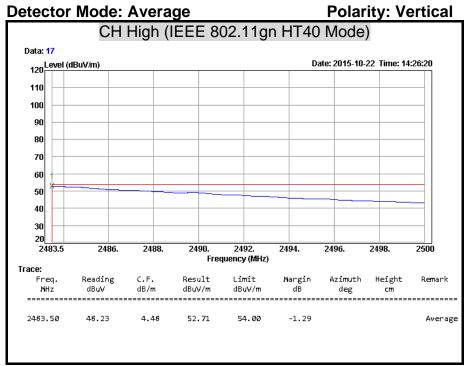


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7.7 CONDUCTED EMISSION

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 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

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The lower limit applies at the boundary between the frequency ranges.

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

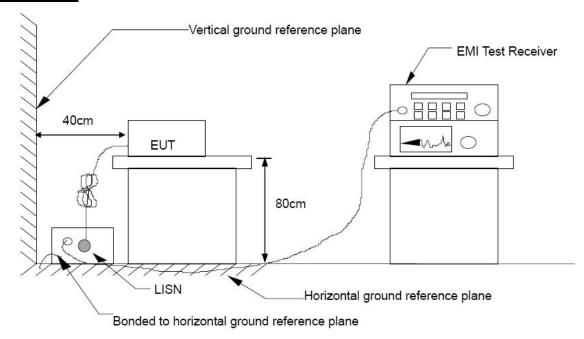
TEST EQUIPMENT

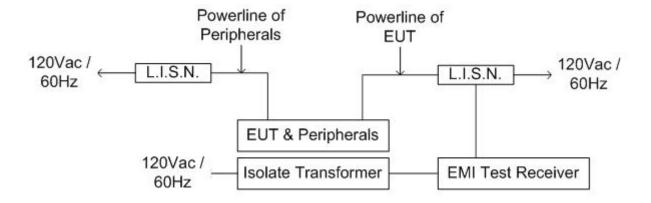
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	Schwarzbeck	NSLK 8127	8127465	08/05/2016
L.I.S.N	Schwarzbeck	NSLK 8127	8127473	03/09/2016
EMI Test Receiver	Rohde & Schwarz	ESHS 30	838550/003	10/31/2016
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100111	06/28/2016

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

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TEST SETUP





TEST PROCEDURE

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

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

The EUT along with its peripherals were placed on a 1.0m (W) \times 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.

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

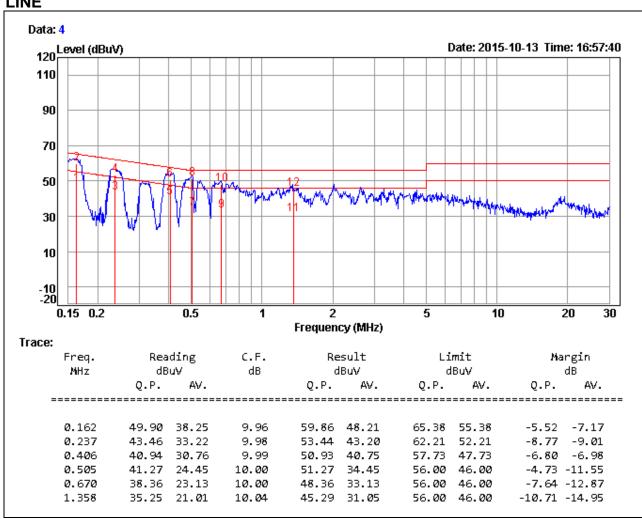
The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a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

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TEST RESULTS

Product Name	RetinaVue 100 Imager Kit	Test By	Ted Wu
Test Model RetinaVue 100 Imager		Test Date	2015/10/13
Test Mode Mode 2		Temp. & Humidity	23°C, 54%

LINE



Remark:

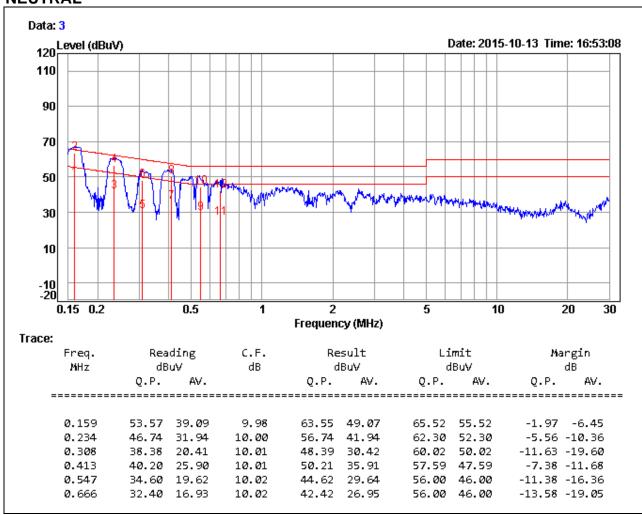
- 1. Correction Factor = Insertion loss + Cable loss
- 2. Result level = Reading Value + Correction factor
- 3. Margin value = Result level Limit value

FCC ID: 2AFB3WA-WEC100

Product Name	RetinaVue 100 Imager Kit	Test By	Ted Wu
Test Model	RetinaVue 100 Imager	Test Date	2015/10/13
Test Mode	Mode 2	Temp. & Humidity	23°C, 54%

Report No.: T150917S01-RP1

NEUTRAL



Remark:

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