FCC 47 CFR PART 15 SUBPART C

for

Prijector

Model: PR-N101+

Brand: N/A

Test Report Number: C160224Z01-RP1-1 Issued Date: March 14, 2016

Issued for

Boole, Inc. 2979,Basil Common, Livermore, CA 94551-6370, USA

Issued by:

Compliance Certification Services (Shenzhen) Inc.

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Revision History

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Rev.	Issue Date	Revisions	Effect Page	Revised By
00	March 14, 2016	Initial Issue	ALL	Sabrina Wang

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1 TEST CERTIFICATION

Product	Prijector
Model	PR-N101+
Brand	N/A
Tested	February 24~March 14, 2016
Applicant	Boole, Inc. 2979,Basil Common, Livermore, CA 94551-6370, USA
Manufacturer	Boole, Inc. 2979,Basil Common, Livermore, CA 94551-6370, USA

APPLICABLE STANDARDS						
Standard	Test Type	Standard	Test Type			
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions			
15.247(a)(2)	6dB Bandwidth Measurement	15.247(b)(3) 15.247(b)(4)	Peak Power Measurement			
15.247(d)	Band Edges Measurement	15.247(e)	Peak Power Spectral Density			

We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247. The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Reviewed by:

Sunday Hu

Supervisor of EMC Dept.

Compliance Certification Services (Shenzhen)

Inc.

Ruby Zhang

Supervisor of Report Dept.

Compliance Certification Services (Shenzhen)

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Inc.

2 TEST RESULT SUMMARY

APPLICABLE STANDARDS							
Standard	Test Type	Result	Remark				
15.247(a)(2)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.				
15.247(b)(3) 15.247(b)(4)	Peak Power Measurement	Pass	Meet the requirement of limit.				
15.247(d)	Band Edges Measurement	Pass	Meet the requirement of limit.				
15.247(e)	47(e) Peak Power Spectral Density		Meet the requirement of limit.				
15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions	Pass	Meet the requirement of limit.				
15.207(a)	Power line Conducted Emissions	Pass	Meet the requirement of limit.				

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Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.

3 EUT DESCRIPTION

Product	Prijector
Model Number	PR-N101+
Brand	N/A
Model Discrepancy	N/A
Identify Number	C160224Z01-RP1-1
Received Date	February 24, 2016
Power Supply	DC5V supplied by the Adapter
Adapter Manufacturer /Model No.	SHENZHEN FUJIA APPLIANCE CO., LTD. / FJ-SW1260502000DN I/P: 100-240Vac, 50/60Hz, 0.4A max O/P: 5Vdc, 2000mA
Transmit Power	IEEE 802.11b mode: 9.51dBm (Antenna 1) IEEE 802.11b mode: 9.43dBm (Antenna 2) IEEE 802.11g mode: 14.40dBm (Antenna 1) IEEE 802.11g mode:14.65dBm (Antenna 2) IEEE 802.11n HT20 MHz mode: 15.45dBm(Combine with Antenna 1 and Antenna 2) IEEE 802.11n HT40 MHz mode: 15.07dBm(Combine with Antenna 1 and Antenna 2)
Modulation Technique	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate	IEEE 802.11b: 11Mbps(CCK) with fall back rates of 5.5/2/1Mbps IEEE 802.11g: 54Mbps with fall back rates of 48/36/24/18/12/9 /6Mbps IEEE 802.11n HT20: 130Mbps with fall back rates of 130/117/104/ 78/52/39/26/13Mbps IEEE 802.11n HT40: 270Mbps with fall back rates of 270/243/216/ 162/108/81/54/27Mbps
Number of Channels	IEEE 802.11b mode: 11 Channels
Antenna Specification	PCB Antenna with 3dBi gain (Max)
Channels Spacing	IEEE 802.11b/g ,802.11n HT20/HT40 : 5MHz
Temperature Range	0°C ~ +40°C
Hardware Version	V2.0
Software Version	V16XX

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

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^{2.} This submittal(s) (test report) is intended for FCC ID: <u>2AHIP-6D25BA</u> filling to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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mede le pregie	nodo lo programmod.				
Test Item	Test mode	Worse mode			
	Mode 1: HDMI + USB1 Play (AC120V/60Hz)				
	Mode 2: HDMI + USB2 Play (AC120V/60Hz)				
Conducted Emission	Mode 3: HDMI + TF Play (AC120V/60Hz)				
	Mode 4: Video In + HDMI Out (AC120V/60Hz)				
	Mode 5: HDMI + USB1 Play (AC240V/50Hz)				
Radiated Emission	Mode 1: TX				

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only, and power line conducted emission below 30MHz, which worst case was in normal link mode.

IEEE802.11b mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE802.11g mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 MHz mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT40 MHz mode: Channel Low (2422MHz), Channel Mid (2437MHz) and Channel High (2452MHz) with 27Mbps data rate were chosen for full testing.

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5 SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	Monitor	P170SB	CNCXW91FOAB OU8S	DOC	DELL	Shielded 1.50m	Unshielded 2.00m
2	Mouse	WB365PA#AB2	2HTJMB101178-3 17	DOC	DELL	Shielded 1.45m	N/A
3	Keyboard	PR1101V	539130-001	DOC	DELL	Shielded 1.50m	N/A
4	TF Card	N/A	N/A	DOC	Kingston	N/A	N/A
5	Wireless Router	TL-WR740N	12714462932	DOC	TP-LINK	Shielded 1.50m	Unshielded 1.50m
6	DVD Player	DV-420V	1HKD004627CN	DOC	Pioneer	Shielded 1.50m	Unshielded 1.50m
7	Earphone N/A		N/A	DOC	Senic	Shielded 1.50m	N/A
8	USB 2.0 HX-MU032DC/ HDD #1 GB222		E269J90B313481	DOC	SAMSUN G	Shielded 1.50m	N/A
9	USB 2.0 HDD #2	HX-MU032DC/ GB3	E269J90B31987	DOC	SAMSUN G	Shielded 1.50m	N/A

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

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6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

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The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

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

USA A2LA China CNAS

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

USA FCC

Japan VCCI(C-4815,R-4320,T-2317, G-10624)

Canada INDUSTRY CANADA

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

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site: 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Conducted Emissions	+/-3.6836dB
Band Width	178kHz
Peak Output Power MU	+/-1.906dB
Band Edge MU	+/-0.182dB
Channel Separation MU	416.178Hz
Duty Cycle MU	0.054ms
Frequency Stability MU	226Hz

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

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The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

7 FCC PART 15.247 REQUIREMENTS

7.1. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

7.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(a), except as shown in paragraphs (b) and (c) of 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. The lower limit applies at the boundary between the frequency ranges.

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Frequency Range		nits pV)
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

	Conducted Emission Test Site									
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration					
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017					
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/21/2016	02/20/2017					
LISN	EMCO	3825/2	8901-1459	02/21/2016	02/20/2017					
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/21/2016	02/20/2017					
Test S/W	FARAD		EZ-EMC/ CCS-3A	1-CE						

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

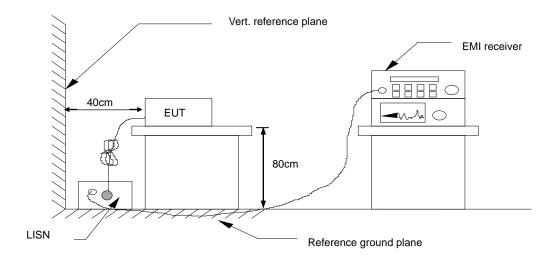
2. N.C.R = No Calibration Request.

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7.1.3. TEST PROCEDURES (please refer to measurement standard)

- The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

7.1.4. TEST SETUP



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For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

7.1.5. DATA SAMPLE

Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Reading/ Average Reading + Factor

Limit = Limit stated in standard

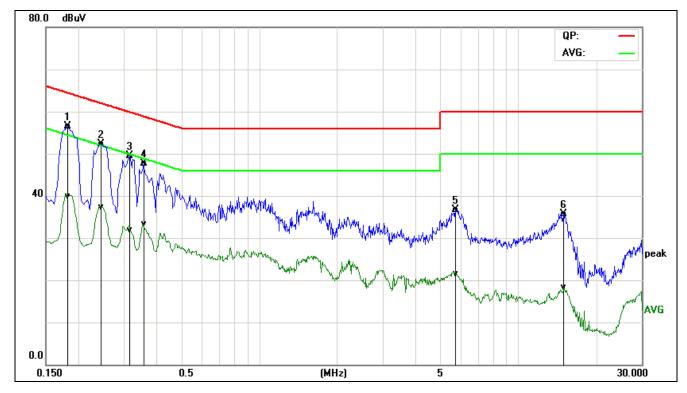
Margin = Result (dBuV) – Limit (dBuV)

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7.1.6. TEST RESULTS

		RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Charlie Xu	Line	L1
Test Date	March 9, 2016		

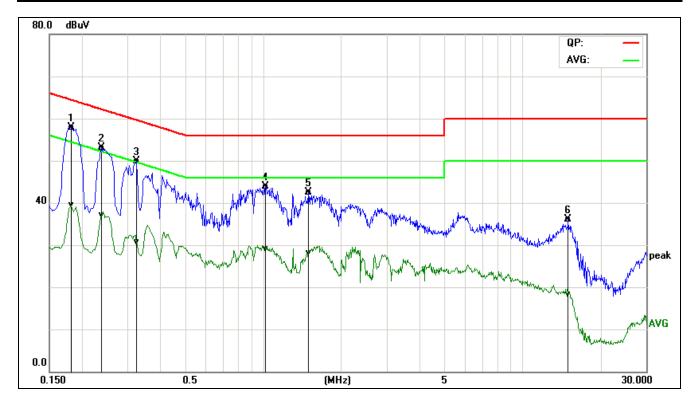
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Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.1819	46.78	30.17	9.65	56.43	39.82	64.39	54.40	-7.96	-14.58	Pass	L1
0.2460	42.67	27.61	9.69	52.36	37.30	61.89	51.89	-9.53	-14.59	Pass	L1
0.3180	39.87	22.17	9.69	49.56	31.86	59.76	49.76	-10.20	-17.90	Pass	L1
0.3580	38.07	23.65	9.68	47.75	33.33	58.77	48.77	-11.02	-15.44	Pass	L1
5.7140	26.90	11.75	9.72	36.62	21.47	60.00	50.00	-23.38	-28.53	Pass	L1
15.0460	25.83	8.37	9.91	35.74	18.28	60.00	50.00	-24.26	-31.72	Pass	L1

REMARKS: L1 = Line One (Live Line)

		RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Charlie Xu	Line	L2
Test Date	March 9, 2016		



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.1819	48.14	29.74	9.79	57.93	39.53	64.39	54.40	-6.46	-14.87	Pass	L2
0.2380	43.30	27.27	9.78	53.08	37.05	62.16	52.17	-9.08	-15.12	Pass	L2
0.3260	40.06	21.05	9.75	49.81	30.80	59.55	49.55	-9.74	-18.75	Pass	L2
1.0220	34.15	19.35	9.81	43.96	29.16	56.00	46.00	-12.04	-16.84	Pass	L2
1.4980	32.81	18.36	9.77	42.58	28.13	56.00	46.00	-13.42	-17.87	Pass	L2
15.0060	26.34	8.61	9.71	36.05	18.32	60.00	50.00	-23.95	-31.68	Pass	L2

REMARKS: L2 = Line Two (Neutral Line)

7.2. SPURIOUS EMISSIONS MEASUREMENT

7.2.1. CONDUCTED EMISSIONS MEASUREMENT

7.2.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

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If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3)requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3)requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

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 Section 15.205(c)).

7.2.1.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration	
Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/20/2017	

7.2.1.3. TEST PROCEDURE (please refer to measurement standard)

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

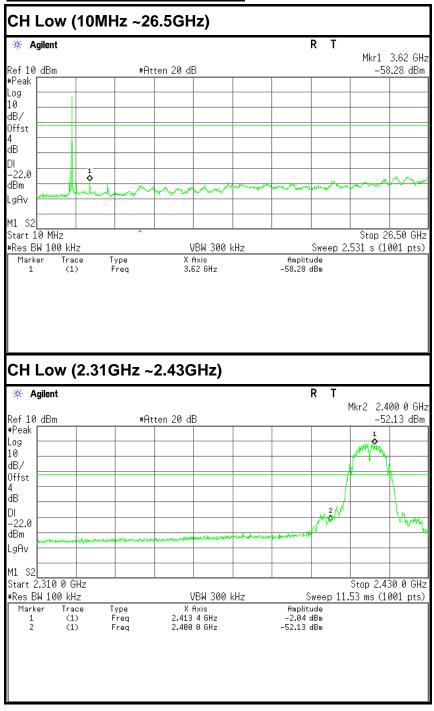
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

Measurements are made over the 10MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels. No emission found between lowest internal used/generated frequency to 10MHz, it is only recorded 10MHz to 26GHz.

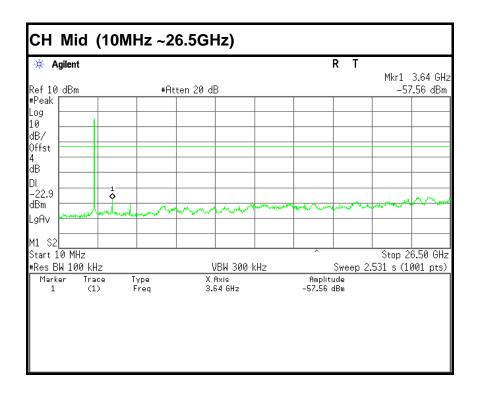
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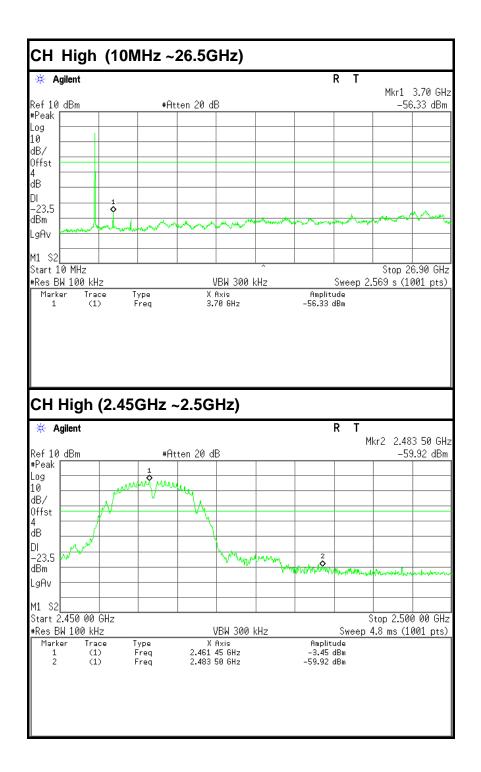
7.2.1.4. TEST RESULTS

Test Plot IEEE 802.11b mode (Antenna 1)

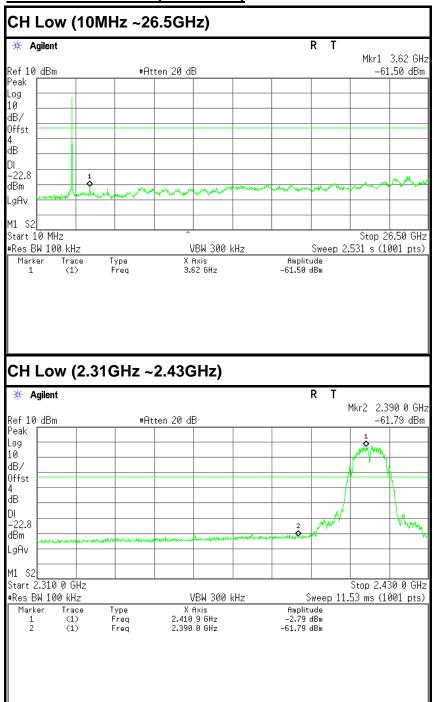


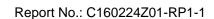


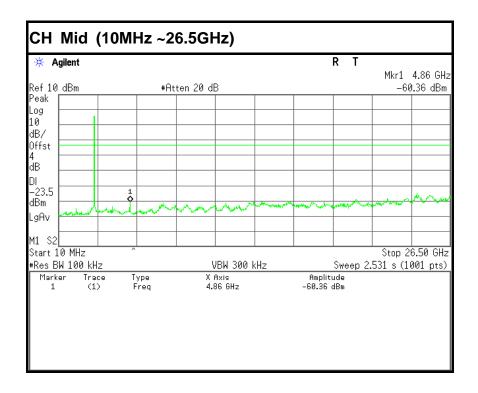


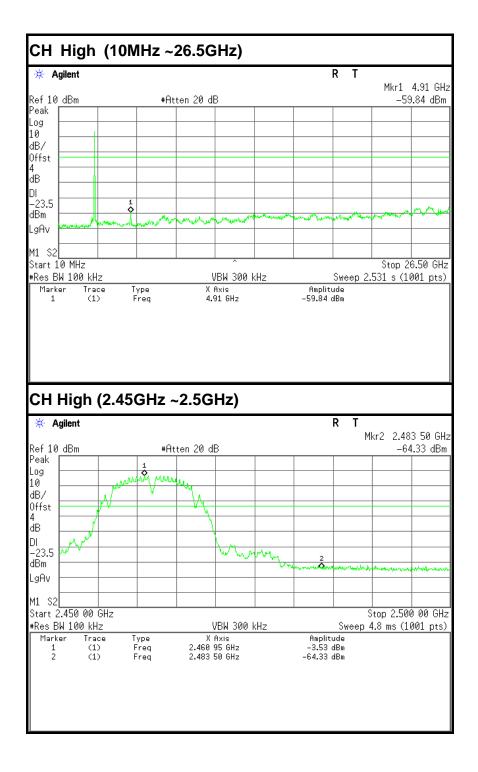


IEEE 802.11b mode (Antenna 2)

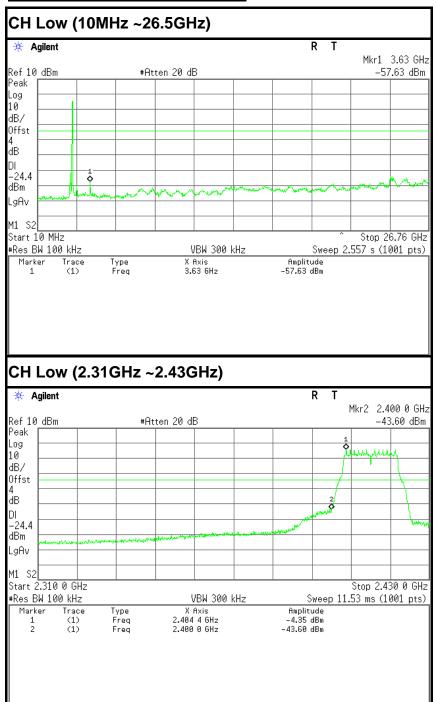




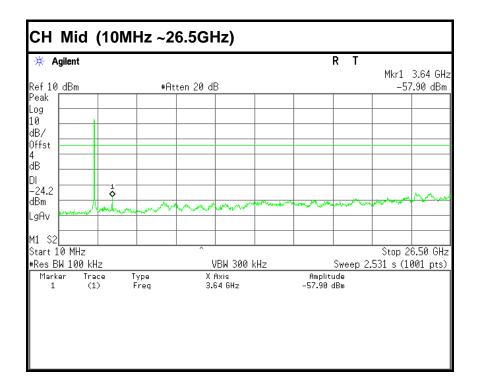


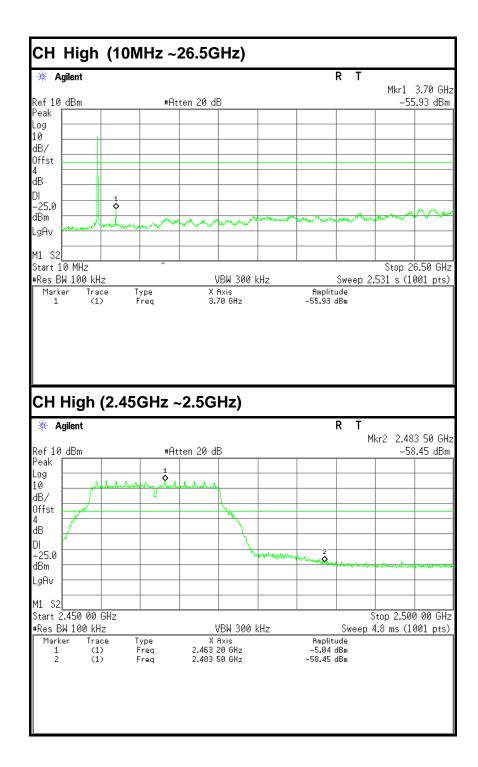


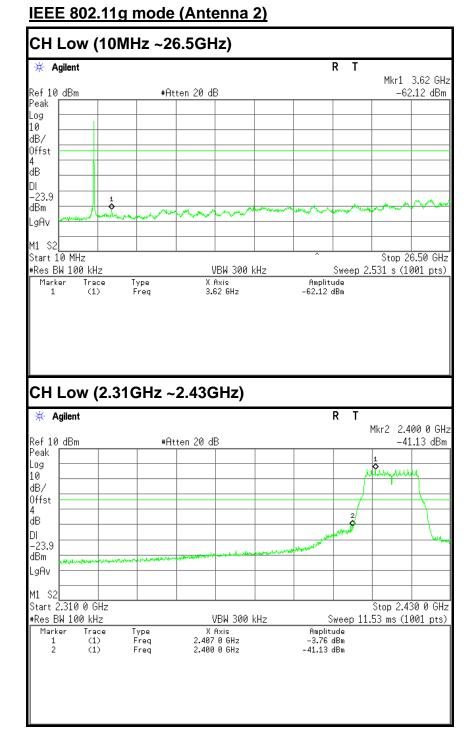
IEEE 802.11g mode (Antenna 1)



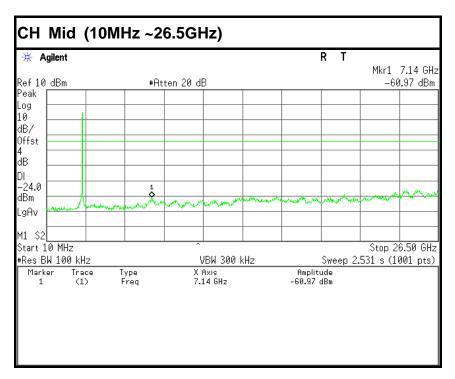


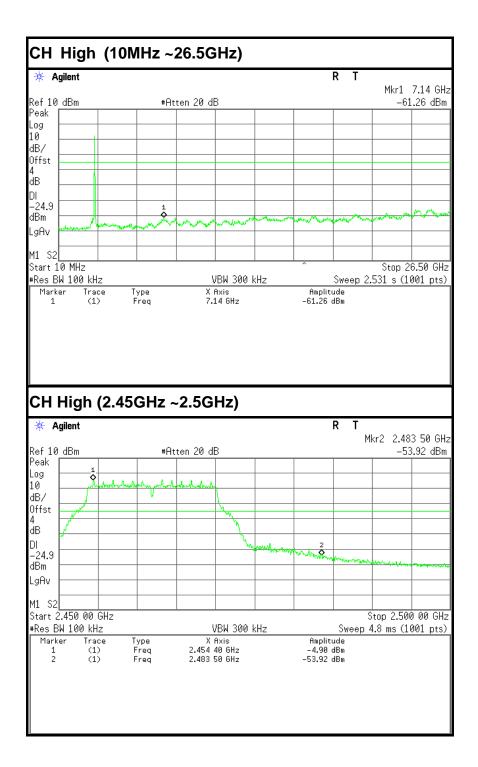




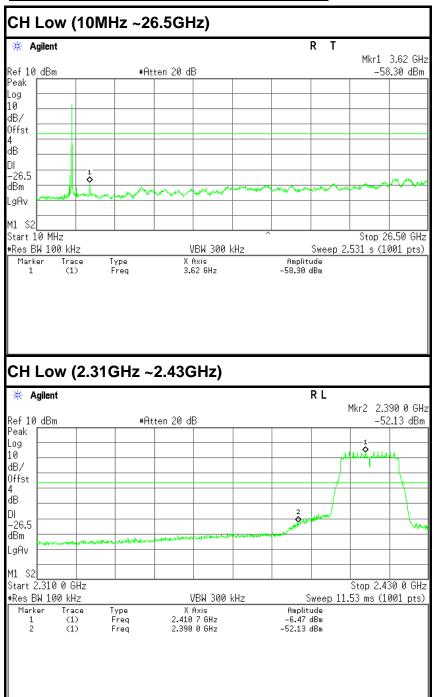




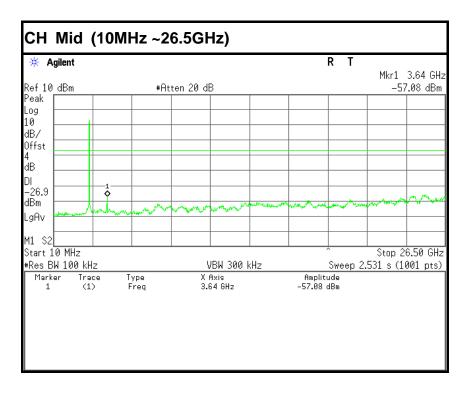




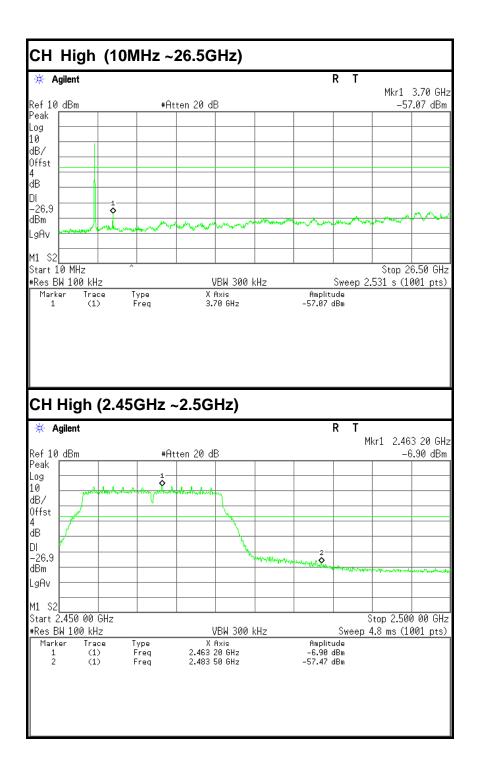
IEEE 802.11n HT20 MHz mode (Antenna 1)



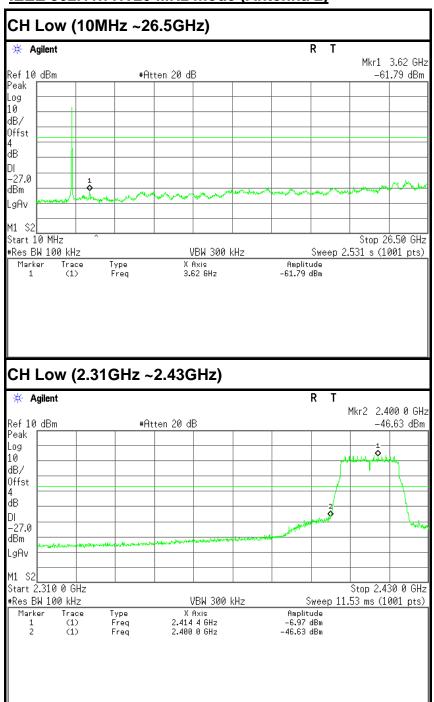


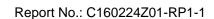


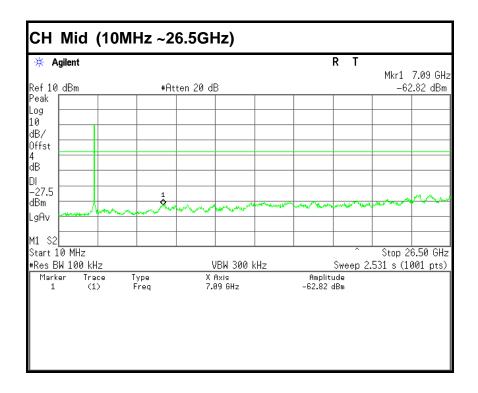


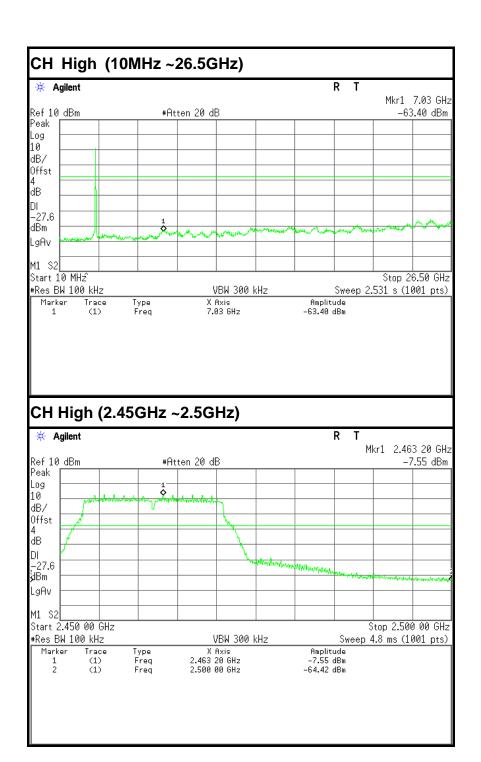


IEEE 802.11n HT20 MHz mode (Antenna 2)

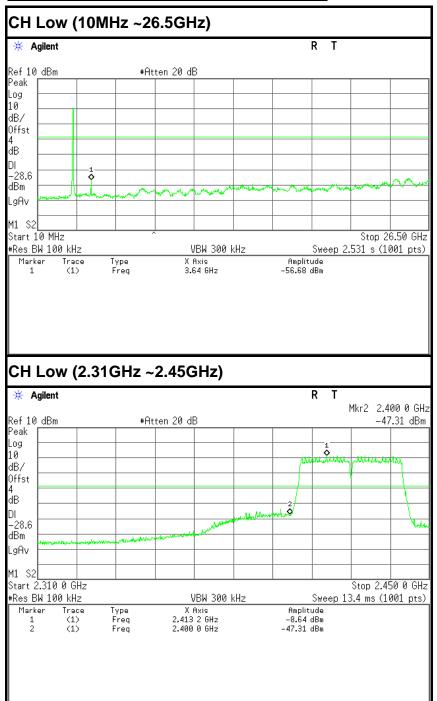


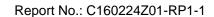


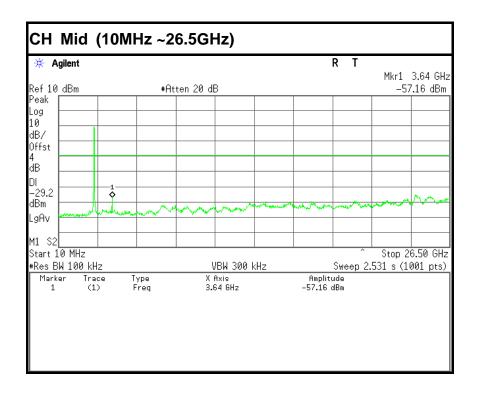


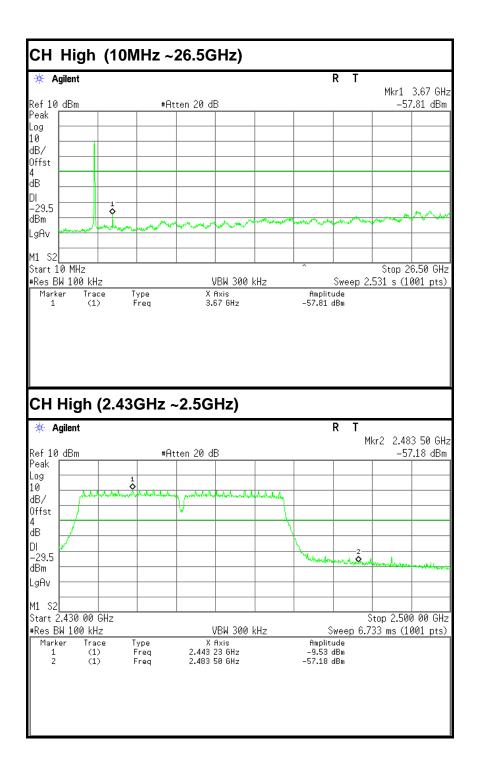


IEEE 802.11n HT40 MHz mode (Antenna 1)



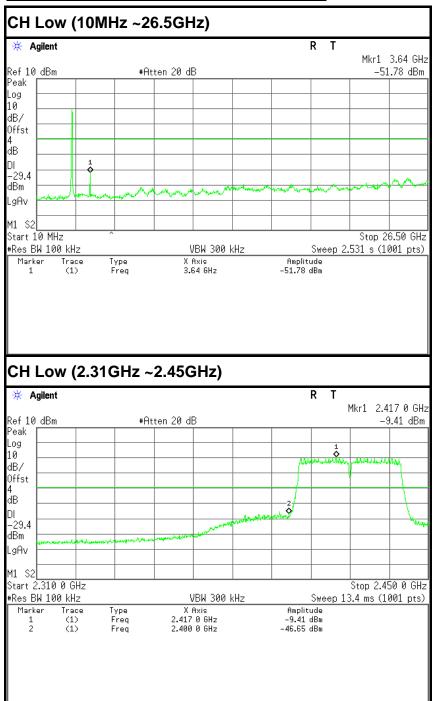


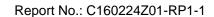


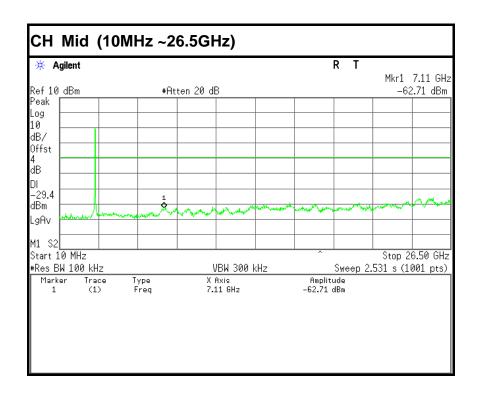


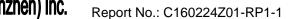
IEEE 802.11n HT40 MHz mode (Antenna 2)

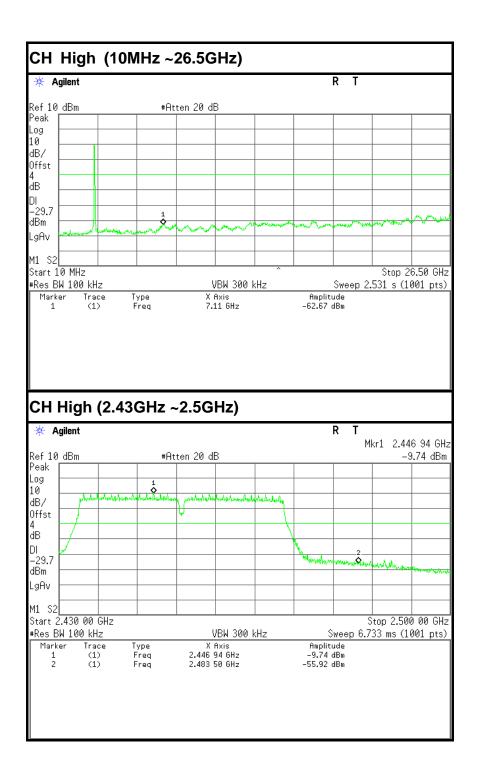
Report No.: C160224Z01-RP1-1











7.2.2. RADIATED EMISSIONS MEASUREMENT

7.2.2.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

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:

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
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.

1. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

NOTE:(1) The lower limit shall apply at the transition frequencies.

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⁽²⁾ Emission level (dBuV/m) = 20 log Emission level (uV/m).

7.2.2.2. TEST INSTRUMENTS

	Radiated Er	mission Test S	Site 966 (2)		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/20/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2016
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	СТ	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/20/2017
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD		LZ-RF / CCS	S-SZ-3A2	

Report No.: C160224Z01-RP1-1

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The FCC Site Registration number is 101879.
- 3. N.C.R = No Calibration Required.

7.2.2.3. TEST PROCEDURE (please refer to measurement standard)

- 1. The EUT is placed on a turntable, which is 0.8m or 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

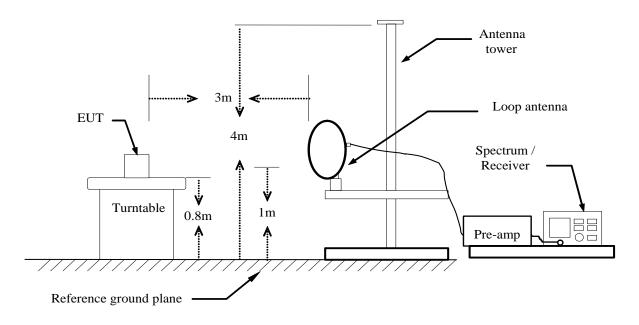
Above 1GHz:

- (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 7. Repeat above procedures until the measurements for all frequencies
- 8. are complete.

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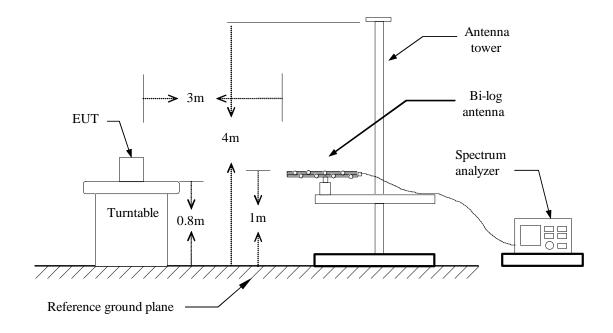
7.2.2.4. TEST SETUP

Below 30MHz

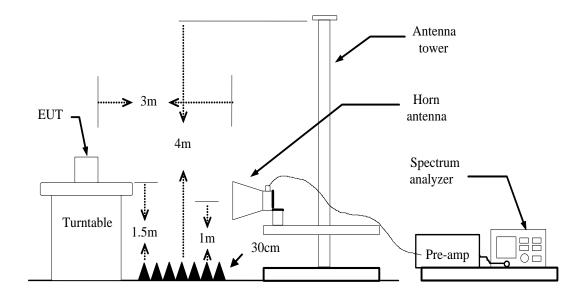


Report No.: C160224Z01-RP1-1

Below 1 GHz



Above 1 GHz



Report No.: C160224Z01-RP1-1

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.2.2.5. DATA SAPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Report No.: C160224Z01-RP1-1

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer / Receiver reading Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m) Result (dBuV/m) = Reading (dBuV) + Correction Factor

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7.2.2.6. TEST RESULTS

Below 1 GHz

Test Mode: TX Tested by: Ad Gan

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 11, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
112.4500	45.26	-21.66	23.60	43.50	-19.90	V	QP
445.1600	52.88	-15.57	37.31	46.00	-8.69	V	QP
688.6300	43.52	-12.22	31.30	46.00	-14.70	V	QP
729.3700	49.34	-11.62	37.72	46.00	-8.28	V	QP
770.1100	45.30	-11.13	34.17	46.00	-11.83	V	QP
971.8700	46.05	-8.99	37.06	54.00	-16.94	V	QP
110.5100	57.98	-21.79	36.19	43.50	-7.31	Н	QP
223.0300	60.69	-20.80	39.89	46.00	-6.11	Н	QP
445.1600	53.85	-15.57	38.28	46.00	-7.72	Н	QP
485.9000	47.13	-14.36	32.77	46.00	-13.23	Н	QP
729.3700	52.60	-11.62	40.98	46.00	-5.02	Н	QP
971.8700	49.48	-8.99	40.49	54.00	-13.51	Н	QP

^{**}Remark: No emission found between lowest internal used/generated frequency to 30MHz.

Notes:

- 1. Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 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. The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.

4. Frequency (MHz).

= Emission frequency in MHz

Reading (dBµV/m)

= Receiver reading

Correction Factor (dB)

= Antenna factor + Cable loss - Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB)

= Measured ($dB\mu V/m$) – Limits ($dB\mu V/m$)

Antenna Pol e(H/V)

= Current carrying line of reading

Above 1 GHz Antenna 1

Test Mode: TX / IEEE 802.11b(CH Low) Tested by: Jack Chen

Report No.: C160224Z01-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: March 10, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1630.000	53.54	-6.64	46.90	74.00	-27.10	V	peak
1981.000	49.77	-5.12	44.65	74.00	-29.35	V	peak
2575.000	45.24	-2.12	43.12	74.00	-30.88	V	peak
2971.000	52.07	-1.41	50.66	74.00	-23.34	V	peak
3961.000	42.57	1.43	44.00	74.00	-30.00	V	peak
4456.000	45.75	3.20	48.95	74.00	-25.05	V	peak
4825.000	43.93	4.41	48.34	74.00	-25.66	V	peak
2971.000	54.46	-1.41	53.05	74.00	-20.95	Н	Peak
2971.000	43.37	-1.41	41.96	54.00	-12.04	Н	AVG
3448.000	43.05	-0.61	42.44	74.00	-31.56	Н	peak
3961.000	43.75	1.43	45.18	74.00	-28.82	Н	peak
4456.000	43.54	3.20	46.74	74.00	-27.26	Н	peak
4825.000	42.93	4.41	47.34	74.00	-26.66	Н	peak
5761.000	40.41	5.98	46.39	74.00	-27.61	Н	peak

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2548.000	45.38	-2.17	43.21	74.00	-30.79	V	Peak
2971.000	53.61	-1.41	52.20	74.00	-21.80	V	Peak
3961.000	44.29	1.43	45.72	74.00	-28.28	V	Peak
4456.000	43.80	3.20	47.00	74.00	-27.00	V	Peak
4870.000	43.02	4.56	47.58	74.00	-26.42	V	Peak
5473.000	40.92	5.82	46.74	74.00	-27.26	V	Peak
1981.000	53.53	-5.12	48.41	74.00	-25.59	Н	Peak
2971.000	45.97	-1.41	44.56	74.00	-29.44	Н	Peak
3961.000	43.53	1.43	44.96	74.00	-29.04	Н	Peak
4456.000	43.17	3.20	46.37	74.00	-27.63	Н	Peak
4960.000	41.29	4.85	46.14	74.00	-27.86	Н	Peak
6166.000	41.01	6.35	47.36	74.00	-26.64	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2971.000	53.06	-1.41	51.65	74.00	-22.35	V	Peak
3961.000	43.63	1.43	45.06	74.00	-28.94	V	Peak
4456.000	44.96	3.20	48.16	74.00	-25.84	V	Peak
4924.000	45.31	4.73	50.04	74.00	-23.96	V	Peak
5734.000	41.17	5.97	47.14	74.00	-26.86	V	Peak
6544.000	40.52	6.96	47.48	74.00	-26.52	V	Peak
2575.000	45.71	-2.12	43.59	74.00	-30.41	Н	Peak
2971.000	49.45	-1.41	48.04	74.00	-25.96	Н	Peak
3952.000	41.65	1.39	43.04	74.00	-30.96	Н	Peak
4924.000	43.88	4.73	48.61	74.00	-25.39	Н	Peak
6247.000	39.86	6.48	46.34	74.00	-27.66	Н	Peak
6985.000	40.18	7.68	47.86	74.00	-26.14	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 2

Test Mode: TX / IEEE 802.11b(CH Low)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

	-			<u> </u>		· · · · · · · · · · · · · · · · · · ·		
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark	
2413.000	46.35	-2.74	43.61	74.00	-30.39	V	peak	
2971.000	50.18	-1.41	48.77	74.00	-25.23	V	peak	
3889.000	42.84	1.12	43.96	74.00	-30.04	V	peak	
4456.000	41.91	3.20	45.11	74.00	-28.89	V	peak	
4825.000	42.04	4.41	46.45	74.00	-27.55	V	peak	
6247.000	40.51	6.48	46.99	74.00	-27.01	V	peak	
							•	
2413.000	46.57	-2.74	43.83	74.00	-30.17	Н	Peak	
2971.000	49.26	-1.41	47.85	74.00	-26.15	Н	Peak	
3826.000	42.42	0.86	43.28	74.00	-30.72	Н	Peak	
4456.000	42.56	3.20	45.76	74.00	-28.24	Н	peak	
4825.000	41.08	4.41	45.49	74.00	-28.51	Н	peak	
6139.000	40.95	6.31	47.26	74.00	-26.74	Н	peak	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2548.000	45.38	-2.17	43.21	74.00	-30.79	V	Peak
2971.000	53.38	-1.41	51.97	74.00	-22.03	V	Peak
3961.000	45.72	1.43	47.15	74.00	-26.85	V	Peak
4456.000	44.22	3.20	47.42	74.00	-26.58	V	Peak
4870.000	42.48	4.56	47.04	74.00	-26.96	V	Peak
6157.000	40.62	6.33	46.95	74.00	-27.05	V	Peak
1702.000	48.88	-6.48	42.40	74.00	-31.60	Н	Peak
1981.000	47.35	-5.12	42.23	74.00	-31.77	Н	Peak
2476.000	45.17	-2.39	42.78	74.00	-31.22	Н	Peak
3214.000	42.62	-1.00	41.62	74.00	-32.38	Н	Peak
4546.000	41.12	3.50	44.62	74.00	-29.38	Н	Peak
5041.000	41.14	5.05	46.19	74.00	-27.81	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11b (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2503.000	45.85	-2.25	43.60	74.00	-30.40	V	Peak
2971.000	52.68	-1.41	51.27	74.00	-22.73	V	Peak
3268.000	43.45	-0.91	42.54	74.00	-31.46	V	Peak
3961.000	43.07	1.43	44.50	74.00	-29.50	V	Peak
4456.000	43.22	3.20	46.42	74.00	-27.58	V	Peak
4924.000	43.40	4.73	48.13	74.00	-25.87	V	Peak
2575.000	45.71	-2.12	43.59	74.00	-30.41	Н	Peak
2971.000	49.45	-1.41	48.04	74.00	-25.96	Н	Peak
3952.000	41.65	1.39	43.04	74.00	-30.96	Н	Peak
4924.000	43.88	4.73	48.61	74.00	-25.39	Н	Peak
5437.000	40.04	5.76	45.80	74.00	-28.20	Н	Peak
6247.000	39.86	6.48	46.34	74.00	-27.66	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 1

Test Mode: TX / IEEE 802.11g(CH Low)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1981.000	55.15	-5.12	50.03	74.00	-23.97	V	Peak
2773.000	44.73	-1.77	42.96	74.00	-31.04	V	Peak
2971.000	51.04	-1.41	49.63	74.00	-24.37	V	Peak
3808.000	41.61	0.78	42.39	74.00	-31.61	V	Peak
4537.000	41.15	3.47	44.62	74.00	-29.38	V	Peak
5482.000	40.64	5.84	46.48	74.00	-27.52	V	Peak
2809.000	44.00	-1.70	42.30	74.00	-31.70	Н	Peak
2971.000	51.12	-1.41	49.71	74.00	-24.29	Н	Peak
3295.000	42.82	-0.86	41.96	74.00	-32.04	Н	Peak
3961.000	42.63	1.43	44.06	74.00	-29.94	Н	Peak
4456.000	44.39	3.20	47.59	74.00	-26.41	Н	Peak
4861.000	40.40	4.53	44.93	74.00	-29.07	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Tested by: Jack Chen

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

	•						
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2557.000	45.46	-2.16	43.30	74.00	-30.70	V	Peak
2971.000	49.62	-1.41	48.21	74.00	-25.79	V	Peak
3889.000	42.10	1.12	43.22	74.00	-30.78	V	Peak
4456.000	41.42	3.20	44.62	74.00	-29.38	V	Peak
4879.000	41.73	4.59	46.32	74.00	-27.68	V	Peak
5923.000	40.49	6.05	46.54	74.00	-27.46	V	Peak
							•
1981.000	55.83	-5.12	50.71	74.00	-23.29	Н	Peak
2971.000	51.85	-1.41	50.44	74.00	-23.56	Н	Peak
3961.000	45.26	1.43	46.69	74.00	-27.31	Н	Peak
4456.000	45.41	3.20	48.61	74.00	-25.39	Н	Peak
4870.000	41.72	4.56	46.28	74.00	-27.72	Н	Peak
6013.000	41.10	6.10	47.20	74.00	-26.80	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1981.000	52.17	-5.12	47.05	74.00	-26.95	V	Peak
2971.000	50.44	-1.41	49.03	74.00	-24.97	V	Peak
3826.000	41.54	0.86	42.40	74.00	-31.60	V	Peak
4267.000	42.10	2.53	44.63	74.00	-29.37	V	Peak
4924.000	41.60	4.73	46.33	74.00	-27.67	V	Peak
5752.000	39.84	5.98	45.82	74.00	-28.18	V	Peak
				•		•	•
2458.000	45.73	-2.49	43.24	74.00	-30.76	Н	Peak
2971.000	52.67	-1.41	51.26	74.00	-22.74	Н	Peak
3448.000	42.91	-0.61	42.30	74.00	-31.70	Н	Peak
4033.000	42.28	1.71	43.99	74.00	-30.01	Н	Peak
4456.000	44.59	3.20	47.79	74.00	-26.21	Н	Peak
5365.000	41.01	5.63	46.64	74.00	-27.36	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Antenna 2

Test Mode: TX / IEEE 802.11g(CH Low)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1891.000	55.52	-5.69	49.83	74.00	-24.17	V	Peak
2971.000	50.81	-1.41	49.40	74.00	-24.60	V	Peak
3394.000	42.91	-0.70	42.21	74.00	-31.79	V	Peak
4456.000	41.71	3.20	44.91	74.00	-29.09	V	Peak
4870.000	41.29	4.56	45.85	74.00	-28.15	V	Peak
5491.000	40.10	5.85	45.95	74.00	-28.05	V	Peak
	•					•	•
2413.000	45.75	-2.74	43.01	74.00	-30.99	Н	Peak
2971.000	52.66	-1.41	51.25	74.00	-22.75	Н	Peak
3961.000	42.39	1.43	43.82	74.00	-30.18	Н	Peak
4456.000	43.50	3.20	46.70	74.00	-27.30	Н	Peak
4933.000	40.96	4.76	45.72	74.00	-28.28	Н	Peak
5590.000	40.06	5.91	45.97	74.00	-28.03	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH Mid)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2575.000	44.55	-2.12	42.43	74.00	-31.57	V	Peak
2971.000	50.27	-1.41	48.86	74.00	-25.14	V	Peak
3655.000	42.02	0.13	42.15	74.00	-31.85	V	Peak
4177.000	41.73	2.21	43.94	74.00	-30.06	V	Peak
4870.000	41.60	4.56	46.16	74.00	-27.84	V	Peak
5365.000	40.03	5.63	45.66	74.00	-28.34	V	Peak
2575.000	46.07	-2.12	43.95	74.00	-30.05	Н	Peak
2971.000	50.24	-1.41	48.83	74.00	-25.17	Н	Peak
3934.000	42.28	1.31	43.59	74.00	-30.41	Н	Peak
4456.000	41.41	3.20	44.61	74.00	-29.39	Н	Peak
4879.000	40.94	4.59	45.53	74.00	-28.47	Н	Peak
6157.000	41.09	6.33	47.42	74.00	-26.58	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11g (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2458.000	46.35	-2.49	43.86	74.00	-30.14	V	Peak
2971.000	52.83	-1.41	51.42	74.00	-22.58	V	Peak
3331.000	43.92	-0.80	43.12	74.00	-30.88	V	Peak
4456.000	44.85	3.20	48.05	74.00	-25.95	V	Peak
4933.000	40.90	4.76	45.66	74.00	-28.34	V	Peak
6319.000	39.89	6.60	46.49	74.00	-27.51	V	Peak
							•
2458.000	47.72	-2.49	45.23	74.00	-28.77	Н	Peak
2971.000	49.45	-1.41	48.04	74.00	-25.96	Н	Peak
3142.000	43.27	-1.12	42.15	74.00	-31.85	Н	Peak
3961.000	41.94	1.43	43.37	74.00	-30.63	Н	Peak
4456.000	42.29	3.20	45.49	74.00	-28.51	Н	Peak
5365.000	40.54	5.63	46.17	74.00	-27.83	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Combine with Antenna 1 and Antenna 2

Test Mode: TX / IEEE 802.11n HT20 MHz (CH Low) Tested by: Jack Chen

Report No.: C160224Z01-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: March 10, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2530.000	45.52	-2.21	43.31	74.00	-30.69	V	Peak
2971.000	51.34	-1.41	49.93	74.00	-24.07	V	Peak
3970.000	42.56	1.46	44.02	74.00	-29.98	V	Peak
4456.000	46.53	3.20	49.73	74.00	-24.27	V	Peak
6139.000	40.21	6.31	46.52	74.00	-27.48	V	Peak
6949.000	41.79	7.62	49.41	74.00	-24.59	V	Peak
1981.000	56.54	-5.12	51.42	74.00	-22.58	Н	Peak
2971.000	50.31	-1.41	48.90	74.00	-25.10	Н	Peak
4150.000	42.12	2.12	44.24	74.00	-29.76	Н	Peak
4456.000	42.38	3.20	45.58	74.00	-28.42	Н	Peak
5266.000	39.92	5.45	45.37	74.00	-28.63	Н	Peak
5851.000	39.98	6.02	46.00	74.00	-28.00	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11n HT20 MHz (CH Mid)

Tested by: Jack Chen

Report No.: C160224Z01-RP1-1

Ambient temperature: 24°C Relative humidity: 52% RH Date: March 10, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1972.000	49.17	-5.18	43.99	74.00	-30.01	V	Peak
2440.000	45.86	-2.59	43.27	74.00	-30.73	V	Peak
2971.000	50.97	-1.41	49.56	74.00	-24.44	V	Peak
3322.000	43.20	-0.82	42.38	74.00	-31.62	V	Peak
3709.000	43.25	0.36	43.61	74.00	-30.39	V	Peak
4456.000	45.48	3.20	48.68	74.00	-25.32	V	Peak
2530.000	45.11	-2.21	42.90	74.00	-31.10	Н	Peak
2971.000	50.72	-1.41	49.31	74.00	-24.69	Н	Peak
3889.000	42.89	1.12	44.01	74.00	-29.99	Н	Peak
4456.000	42.91	3.20	46.11	74.00	-27.89	Н	Peak
5023.000	40.57	5.02	45.59	74.00	-28.41	Н	Peak
5356.000	40.48	5.61	46.09	74.00	-27.91	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

2.81

4.73

6.22

Test Mode: TX / EEE 802.11n HT20 MHz (CH High)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Н

Н

Н

Peak

Peak

Peak

Antenna Pole Correction Reading Limit Margin Remark Frequency Result **Factor** (V/H) (dBuV) (dBuV/m) (dBuV/m) (MHz) (dB) (dB/m) 1972.000 ٧ 49.35 -5.18 44.17 74.00 -29.83 Peak ٧ 2467.000 46.03 -2.4443.59 74.00 -30.41 Peak ٧ 2971.000 53.05 -1.41 51.64 74.00 -22.36 Peak V 3961.000 42.27 1.43 43.70 74.00 -30.30 Peak 4456.000 46.33 3.20 49.53 74.00 -24.47 ٧ Peak V 4924.000 41.93 4.73 46.66 74.00 -27.34Peak 2467.000 46.83 -2.4444.39 74.00 -29.61 Н Peak 2971.000 49.09 -1.41 47.68 74.00 -26.32 Η Peak 74.00 3880.000 41.76 1.08 42.84 -31.16 Peak

REMARKS:

4348.000

4924.000

6085.000

41.75

42.12

41.34

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

74.00

74.00

74.00

-29.44

-27.15

-26.44

- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.

44.56

46.85

47.56

- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Combine with Antenna 1 and Antenna 2

Test Mode: TX/ IEEE 802.11n HT40 MHz (CH Low)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2548.000	45.10	-2.17	42.93	74.00	-31.07	V	Peak
2971.000	49.90	-1.41	48.49	74.00	-25.51	V	Peak
3484.000	42.96	-0.55	42.41	74.00	-31.59	V	Peak
4105.000	42.06	1.96	44.02	74.00	-29.98	V	Peak
4456.000	42.94	3.20	46.14	74.00	-27.86	V	Peak
4951.000	41.37	4.82	46.19	74.00	-27.81	V	Peak
2971.000	48.48	-1.41	47.07	74.00	-26.93	Н	Peak
3709.000	43.04	0.36	43.40	74.00	-30.60	Н	Peak
3880.000	43.15	1.08	44.23	74.00	-29.77	Н	Peak
4708.000	40.85	4.03	44.88	74.00	-29.12	Н	Peak
4942.000	40.71	4.79	45.50	74.00	-28.50	Н	Peak
6706.000	39.59	7.22	46.81	74.00	-27.19	Н	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11n HT40 MHz (CH Mid) Tested by: Jack Chen

Report No.: C160224Z01-RP1-1

Date: March 10, 2016

Ambient temperature: <u>24°C</u> Relative humidity: 52% RH **Antenna Pole** Correction Remark Frequency Reading Result Limit Margin **Factor** (V/H) (dBuV/m) (dBuV/m) (MHz) (dBuV) (dB) (dB/m) 2539.000 44.87 74.00 ٧ -2.1942.68 -31.32 Peak 2971.000 51.76 -1.41 50.35 74.00 -23.65 ٧ Peak ٧ 3961.000 42.66 1.43 44.09 74.00 -29.91 Peak ٧ 4456.000 44.81 3.20 48.01 74.00 -25.99 Peak 5545.000 74.00 ٧ 39.65 5.89 45.54 -28.46 Peak V 6391.000 39.51 6.71 46.22 74.00 -27.78 Peak 2512.000 44.97 -2.2442.73 74.00 -31.27 Η Peak 48.71 2971.000 50.12 -1.4174.00 -25.29Н Peak 3709.000 42.06 42.42 74.00 Н 0.36 -31.58Peak 4141.000 41.51 2.09 43.60 74.00 -30.40 Н Peak 4942.000 40.44 4.79 45.23 74.00 -28.77 Н Peak 5842.000 40.77 6.01 46.78 74.00 -27.22 Н Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

Test Mode: TX/ IEEE 802.11n HT40 MHz (CH High)

Ambient temperature: 24°C Relative humidity: 52% RH

Date: March 10, 2016

Report No.: C160224Z01-RP1-1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2575.000	44.38	-2.12	42.26	74.00	-31.74	V	Peak
2971.000	52.24	-1.41	50.83	74.00	-23.17	V	Peak
3961.000	42.00	1.43	43.43	74.00	-30.57	V	Peak
4456.000	44.18	3.20	47.38	74.00	-26.62	V	Peak
5464.000	39.77	5.81	45.58	74.00	-28.42	V	Peak
5671.000	40.03	5.94	45.97	74.00	-28.03	V	Peak
	1	1		ı	T	ı	T
1981.000	55.94	-5.12	50.82	74.00	-23.18	Н	Peak
2512.000	44.97	-2.24	42.73	74.00	-31.27	Н	Peak
2971.000	50.12	-1.41	48.71	74.00	-25.29	Н	Peak
3898.000	42.00	1.16	43.16	74.00	-30.84	Н	Peak
4519.000	40.82	3.41	44.23	74.00	-29.77	Н	Peak
5491.000	40.10	5.85	45.95	74.00	-28.05	Н	Peak

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz.

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7.3.2. TEST INSTRUMENTS

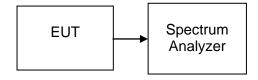
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016

7.3.3. TEST PROCEDURES (please refer to measurement standard)

8.1 Option 1:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 x RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

7.3.4. TEST SETUP



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7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	9068		PASS
Mid	2437	9135	>500	PASS
High	2462	9059		PASS

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Test mode: IEEE 802.11b (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	9071		PASS
Mid	2437	8604	>500	PASS
High	2462	9091		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	16376		PASS
Mid	2437	16367	>500	PASS
High	2462	16379		PASS

Test mode: IEEE 802.11g (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	16393		PASS
Mid	2437	16388	>500	PASS
High	2462	16400		PASS

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Test mode: IEEE 802.11n HT20 MHz (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	17626		PASS
Mid	2437	17616	>500	PASS
High	2462	17618		PASS

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Test mode: IEEE 802.11n HT20 MHz (Antenna 2)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	17625		PASS
Mid	2437	17656	>500	PASS
High	2462	17657		PASS

Test mode: IEEE 802.11n HT40 MHz (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	36356		PASS
Mid	2437	36359	>500	PASS
High	2452	36341		PASS

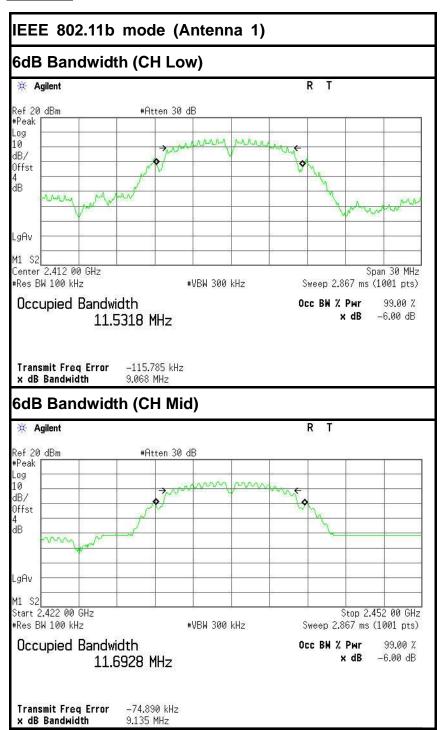
Test mode: IEEE 802.11n HT40 MHz (Antenna 2)

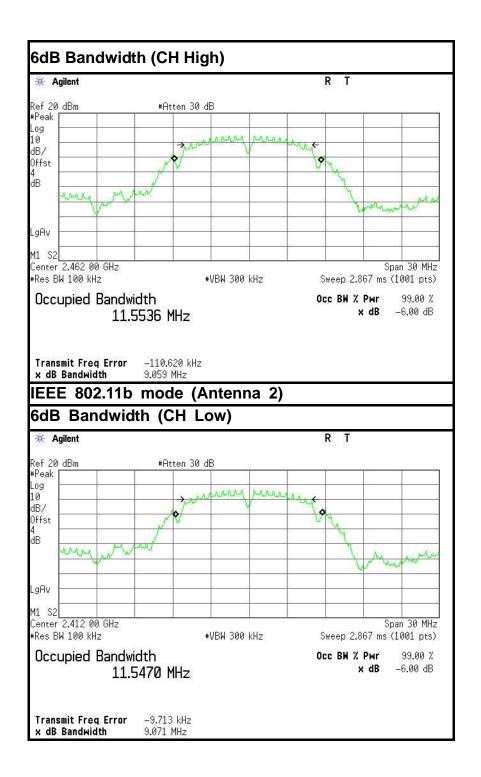
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	36402		PASS
Mid	2437	36380	>500	PASS
High	2452	36434		PASS

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Test Plot





Occ BW % Pwr

x dB

99.00 % -6.00 dB

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Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

11.5983 MHz

-24.812 kHz

9.091 MHz

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