FCC 47 CFR PART 15 SUBPART C

for

Aerial photography equipment

Model: LIVEMANF1, LIVEMANF1 PRO, LIVEMANF1 MAX,
LIVEMANF2, LIVEMANF2 PRO, LIVEMANF2 MAX, LIVEMANF1
LIGHT, LIVEMANF2 LIGHT, LIVEMANF3, LIVEMANF3 PRO,
LIVEMANF3 MAX, LIVEMANF4, LIVEMANF4 PRO, LIVEMANF4 MAX

Brand: GENE

Test Report Number: C160712Z05-RP1 Issued Date: November 1, 2016

Issued for

LeTV Sports AEE technology (Shenzhen) Ltd.

Room 308, 3rd Floor, Bldg 3, AEE Hi-Tech Park, Songbai Road, Shiyan
Town, Bao'an District Shenzhen, P.R.C

Issued by:

Compliance Certification Services (Shenzhen) Inc.

No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

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Note: This report shall not be reTESTING CERT #2861.01/II, without the written approval of Compliance Certification Services (Shenzhen) Inc. This document may be altered or revised by Compliance Certification Services (Shenzhen) Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, A2LA, NVLAP, NIST or any government agencies. The test results in the report only apply to the tested sample.

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	November 1, 2016	Initial Issue	ALL	Sabrina Wang

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1 TEST CERTIFICATION

Product	Aerial photography equipment
Model	LIVEMANF1, LIVEMANF1 PRO, LIVEMANF1 MAX, LIVEMANF2, LIVEMANF2 PRO, LIVEMANF2 MAX, LIVEMANF1 LIGHT, LIVEMANF2 LIGHT, LIVEMANF3, LIVEMANF3 PRO, LIVEMANF4 MAX
Brand	GENE
Tested	July 12~November 1, 2016
Applicant	LeTV Sports AEE technology (Shenzhen) Ltd. Room 308, 3 rd Floor, Bldg 3, AEE Hi-Tech Park, Songbai Road, Shiyan Town, Bao'an District Shenzhen, P.R.C
Manufacturer	LeTV Sports AEE technology (Shenzhen) Ltd. Room 308, 3 rd Floor, Bldg 3, AEE Hi-Tech Park, Songbai Road, Shiyan Town, Bao'an District Shenzhen, P.R.C

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)

Ruby Zhang

Supervisor of Report Dept.

Compliance Certification Services (Shenzhen)

FCC ID: 2AGKNLMF00001

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)	Peak Power Spectral Density	Pass	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.				

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	Aerial photography equipment
Model Number	LIVEMANF1, LIVEMANF1 PRO, LIVEMANF1 MAX, LIVEMANF2, LIVEMANF2 PRO, LIVEMANF2 MAX, LIVEMANF1 LIGHT, LIVEMANF2 LIGHT, LIVEMANF3, LIVEMANF3 PRO, LIVEMANF3 MAX, LIVEMANF4, LIVEMANF4 PRO, LIVEMANF4 MAX
Brand	GENE
Model Discrepancy	All models are identical to each other except the model name different.
Identify Number	C160712Z05-RP1
Received Date	July 12, 2016
Power Supply	DC11.1V supply by the battery
Adapter Manufacturer / Model	AEE / AC03[HXY-126V5000A] Input: AC100-240V 1500mA(max) Output: DC12.6V, 4A AC Input Cable: Unshielded 1.20m DC Output Cable: Unshielded 0.30m
Battery Spec.	AEE / AD04[BP-A20-6.8Ah-01] DC11.1V, 6800mAh / 75.48Wh
Transmit Power	IEEE 802.11b mode: 15.35dBm (Antenna 0) IEEE 802.11b mode: 16.86dBm (Antenna 1) IEEE 802.11g mode: 20.50dBm (Antenna 0) IEEE 802.11g mode: 19.27dBm (Antenna 1) IEEE 802.11n HT20 MHz mode: 21.95Bm(Combine with Antenna 0 and Antenna 1) IEEE 802.11n HT40 MHz mode: 24.13dBm(Combine with Antenna 0 and Antenna 1)
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 IEEE 802.11g mode: 11 Channels IEEE 802.11n HT20 MHz mode: 11 Channels IEEE 802.11n HT40 MHz mode: 7 Channels
Antenna Specification	Internal Antenna with 1.85dBi gain (Max)
Channels Spacing	IEEE 802.11b/g ,802.11n HT20/HT40 : 5MHz
Temperature Range	-10°C ~ +50°C
Hardware Version	A20-FC V1.3

Software Version LIVEMAN_427_AV3.39

Report No.: C160712Z05-RP1

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

2. This submittal(s) (test report) is intended for FCC ID: <u>2AGKNLMF00001</u> filing 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.

Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: Charge	
Radiated Emission	Mode 1: TX	\boxtimes

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.

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.

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	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.

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.

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.

Frequency Range	Lin (dB	
(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-3A1-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.

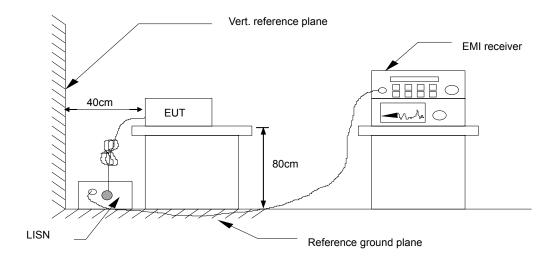
2. N.C.R = No Calibration Request.

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



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)
XXXXXXX	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

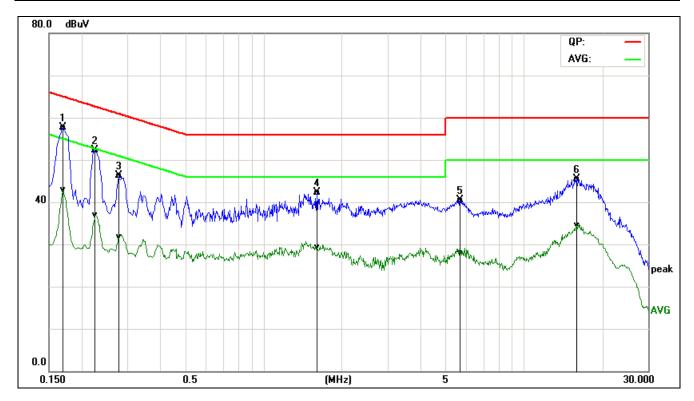
Limit = Limit stated in standard

Margin = Result (dBuV) – Limit (dBuV)

7.1.6. TEST RESULTS

Model No.		RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Darry Wu	Line	L1
Test Date	November 1, 2016		

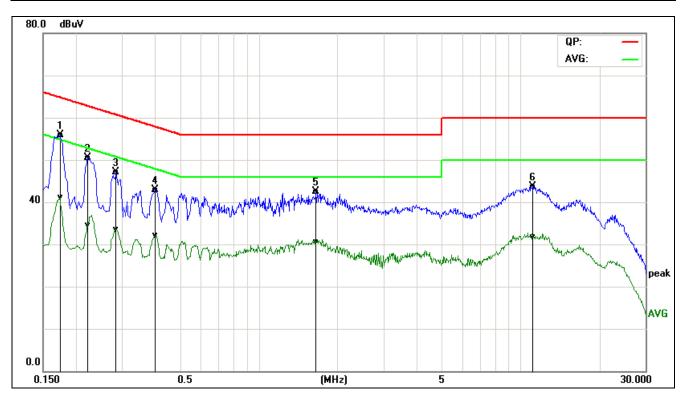
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Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)	Line (L1/L2)
0.1700	38.22	23.31	19.57	57.79	42.88	64.96	54.96	-7.17	-12.08	Pass	L1
0.2260	32.63	17.30	19.64	52.27	36.94	62.59	52.60	-10.32	-15.66	Pass	L1
0.2779	26.60	12.04	19.64	46.24	31.68	60.88	50.88	-14.64	-19.20	Pass	L1
1.6060	22.63	9.54	19.69	42.32	29.23	56.00	46.00	-13.68	-16.77	Pass	L1
5.6900	20.81	8.20	19.66	40.47	27.86	60.00	50.00	-19.53	-22.14	Pass	L1
16.0540	25.69	14.59	19.91	45.60	34.50	60.00	50.00	-14.40	-15.50	Pass	L1

REMARKS: L1 = Line One (Live Line)

Model No.		RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Darry Wu	Line	L2
Test Date	November 1, 2016		



Frequency (MHz)		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)
0.1740	36.08	21.41	19.73	55.81	41.14	64.76	54.77	-8.95	-13.63	Pass	L2
0.2220	30.84	14.78	19.73	50.57	34.51	62.74	52.74	-12.17	-18.23	Pass	L2
0.2860	27.36	13.84	19.71	47.07	33.55	60.64	50.64	-13.57	-17.09	Pass	L2
0.4020	23.23	12.51	19.66	42.89	32.17	57.81	47.81	-14.92	-15.64	Pass	L2
1.6620	22.74	10.70	19.73	42.47	30.43	56.00	46.00	-13.53	-15.57	Pass	L2
11.1740	23.63	11.70	20.04	43.67	31.74	60.00	50.00	-16.33	-18.26	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 peakoutput power procedure is used to measure the fundamental emission powerto demonstrate compliance to 15.247(b)(3)requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency bandshall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the averageoutput power procedure is used to measure the fundamental emission powerto 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 measuredin-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	N9010A	MY55370330	02/21/2016	02/20/2017	

7.2.1.3. TEST PROCEDURE (please refer to measurement standard)

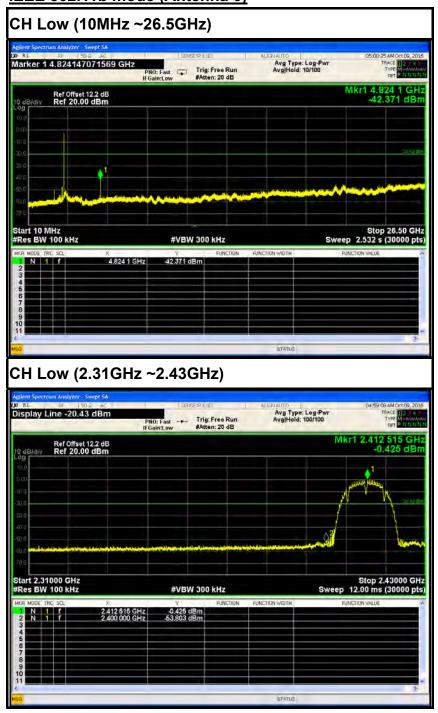
Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

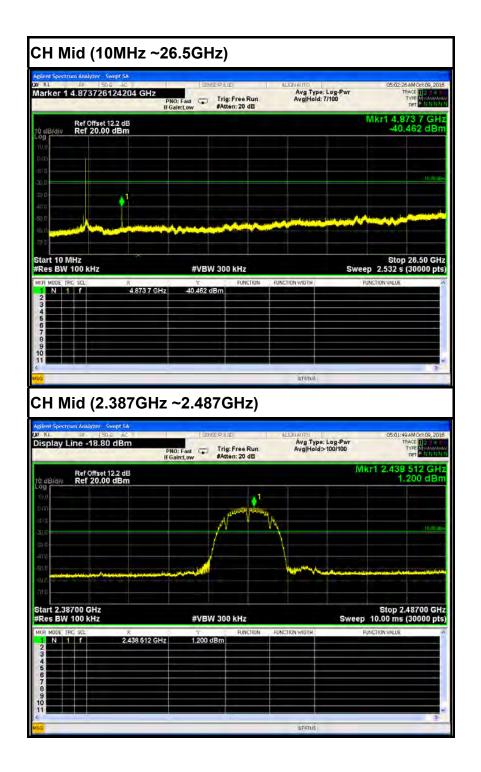
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

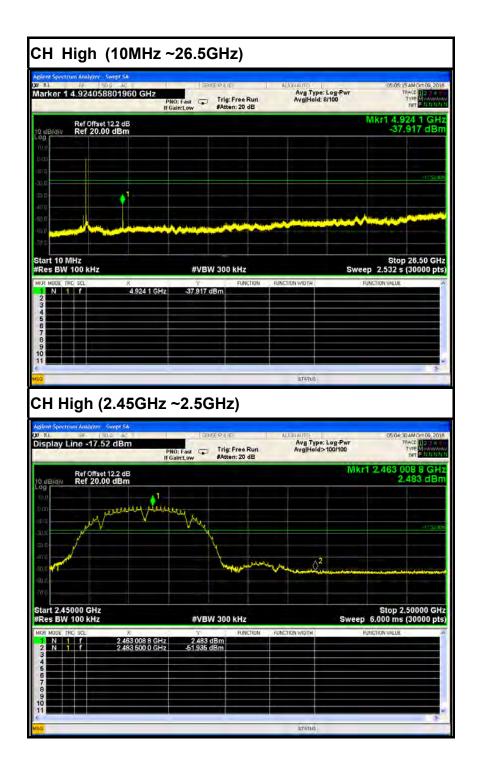
Measurements are made over the 10MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels. No emission found between lowest internal used/generated frequency to 10MHz, it is only recorded 10MHz to 26GHz.

7.2.1.4. TEST RESULTS

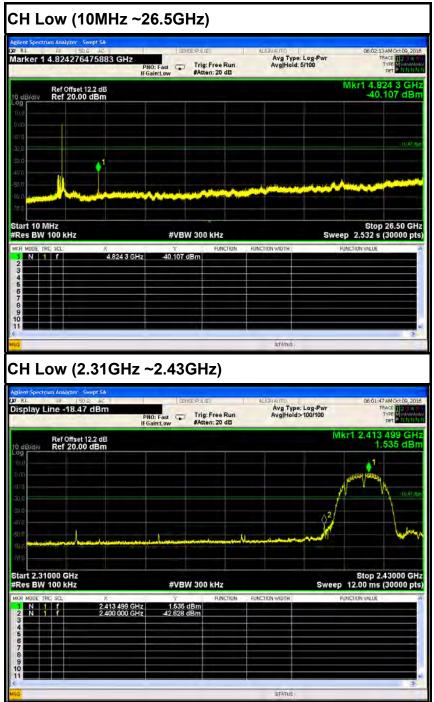
<u>Test Plot</u> <u>IEEE 802.11b mode (Antenna 0)</u>

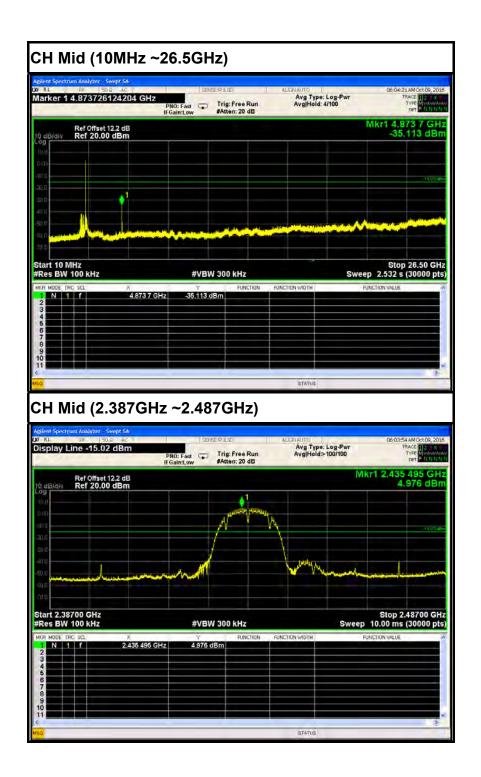


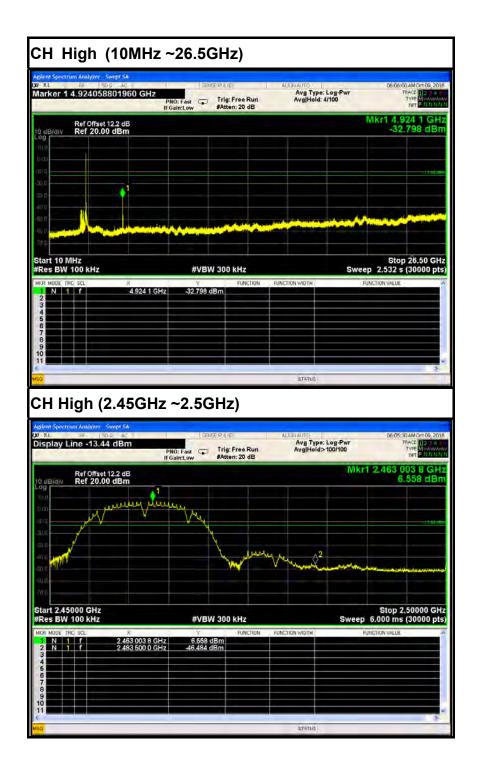




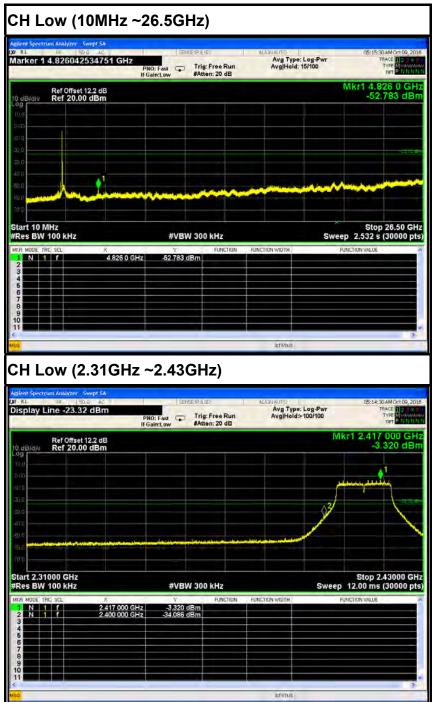
IEEE 802.11b mode (Antenna 1)

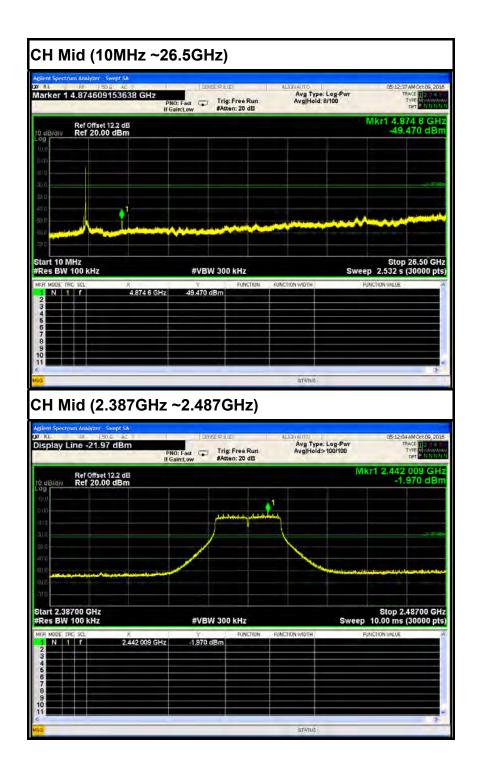


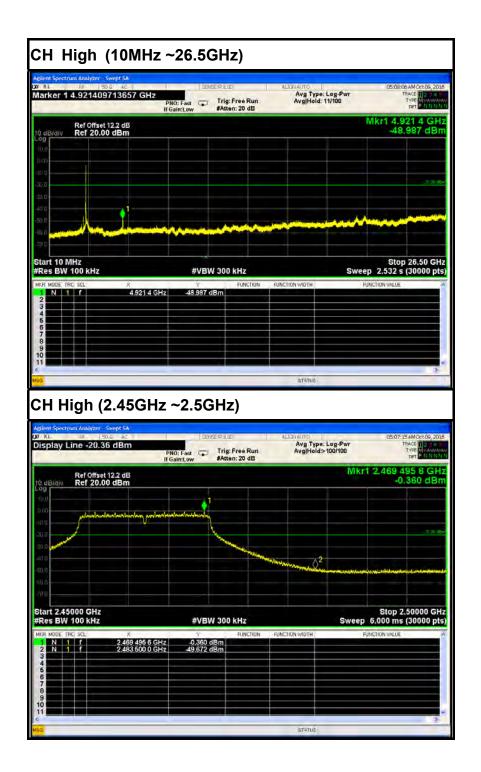




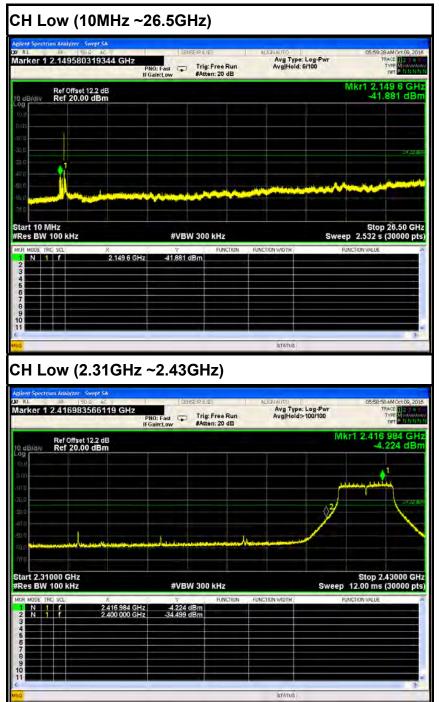
IEEE 802.11g mode (Antenna 0)

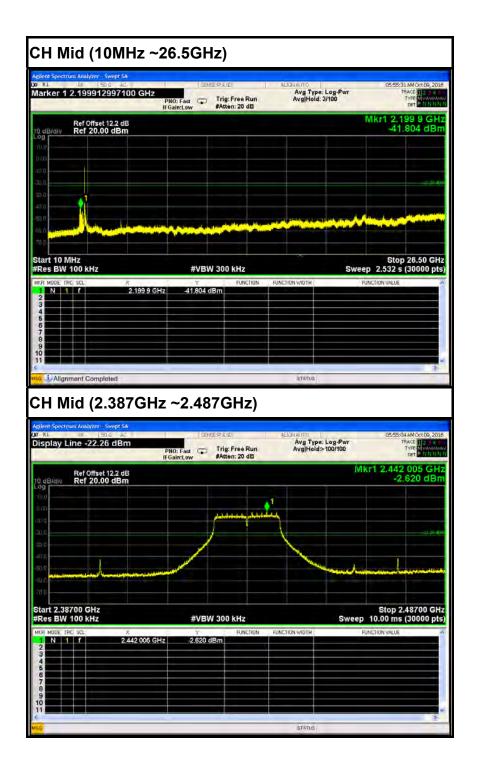


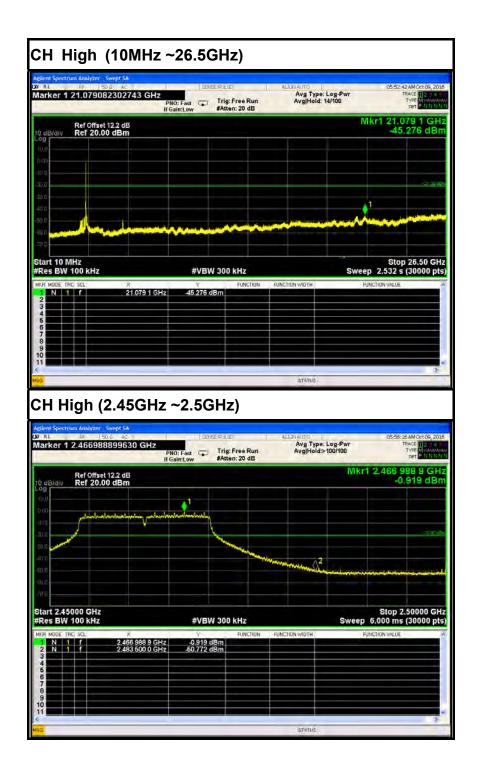




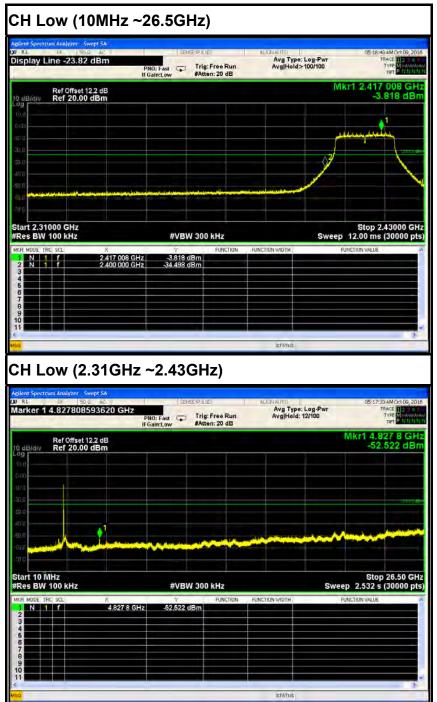
IEEE 802.11g mode (Antenna 1)

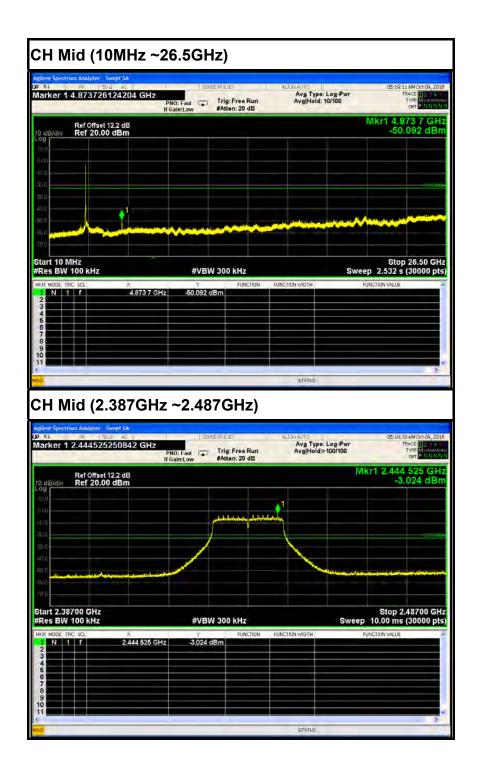


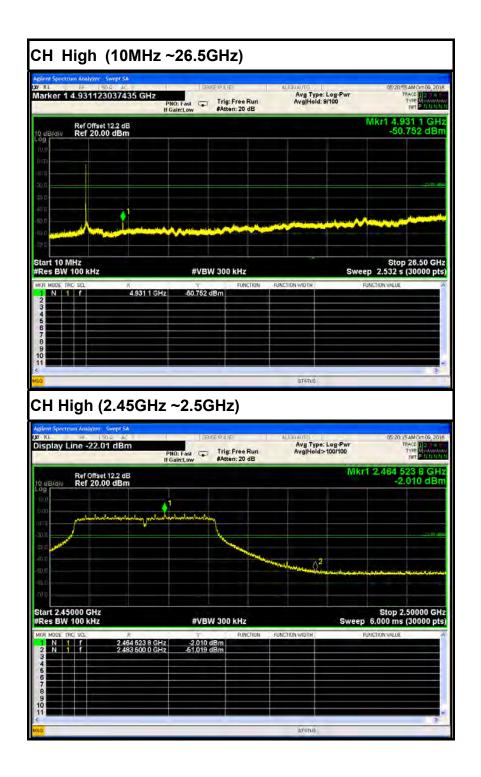




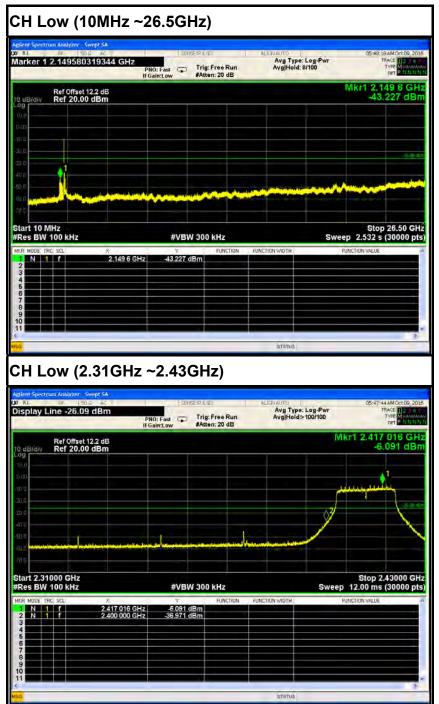
IEEE 802.11n HT20 MHz mode (Antenna 0)

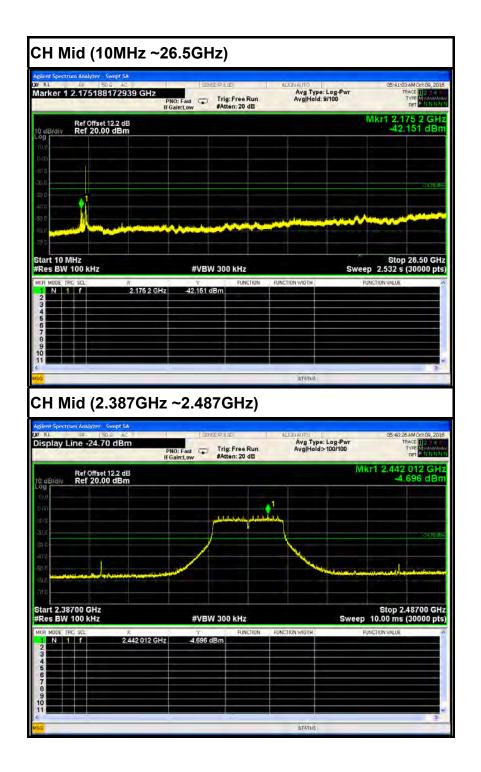


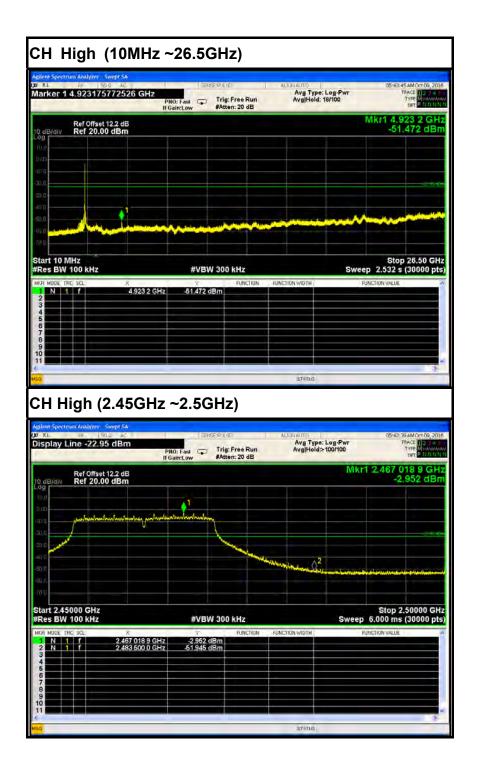




IEEE 802.11n HT20 MHz mode (Antenna 1)

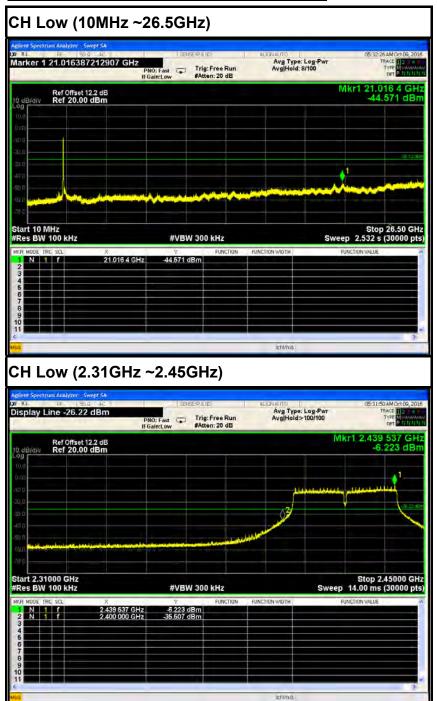


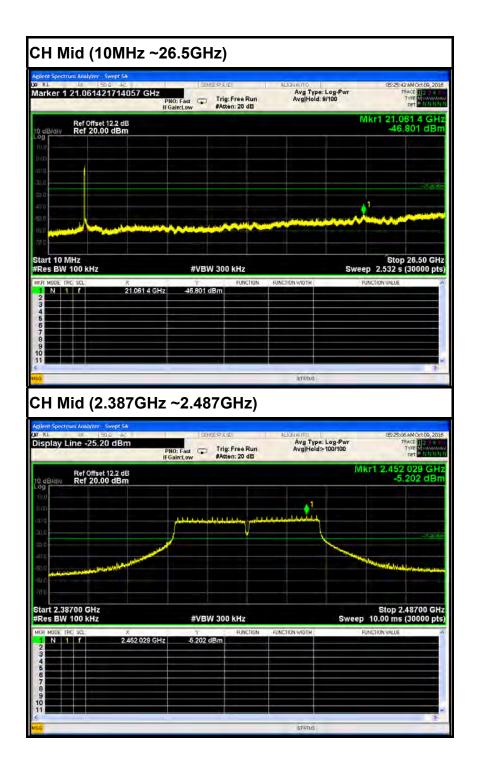




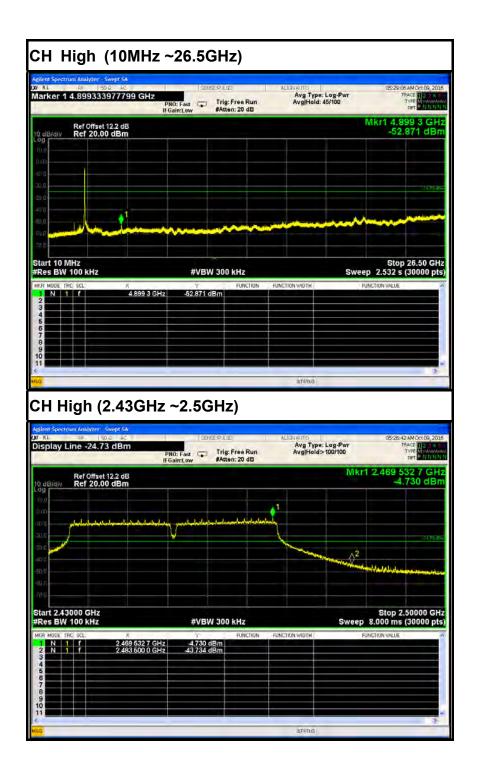
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IEEE 802.11n HT40 MHz mode (Antenna 0)



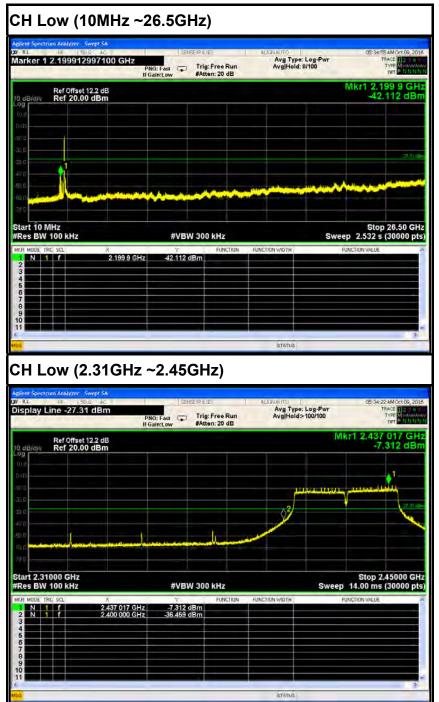


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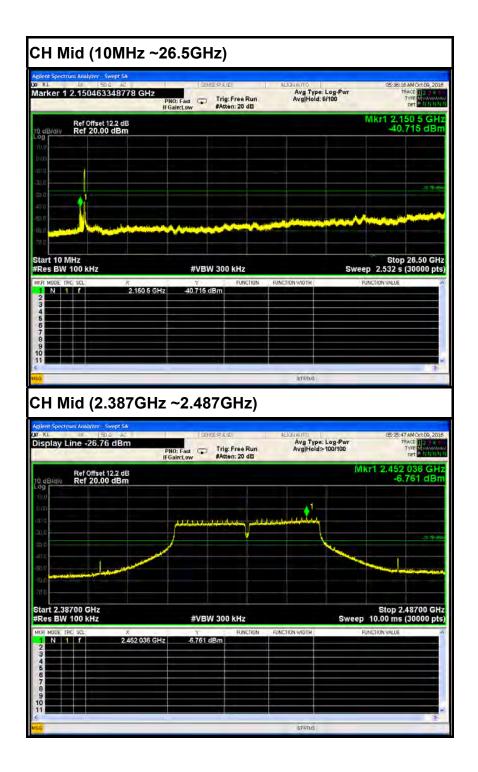


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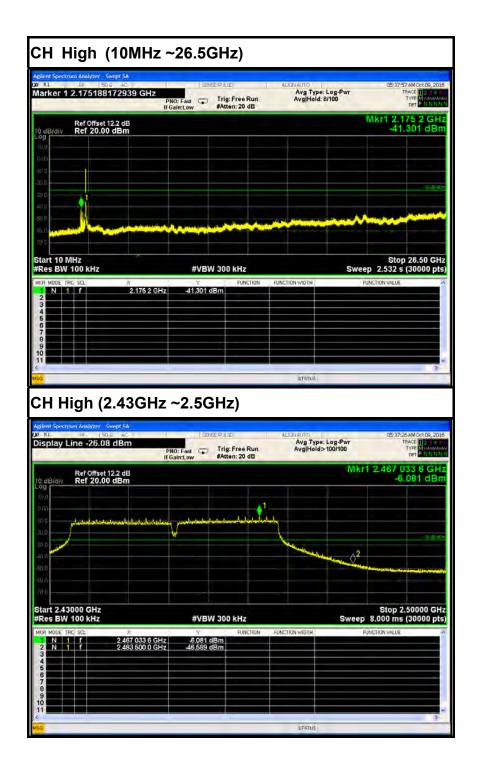
IEEE 802.11n HT40 MHz mode (Antenna 1)



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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:

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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.

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

7.2.2.2. TEST INSTRUMENTS

	Radiated Emission Test 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	EMEC	EM330	060661	03/18/2016	03/17/2017								
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017								
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017								
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017								
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017								
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017								
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R								
Antenna Tower	SUNOL	TLT2	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								
Test S/W	FARAD		LZ-RF / CCS	S-SZ-3A2									

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.

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7.2.2.3. Measuring Instruments and Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted	1MHz / 1MHz for Peak, 1 MHz / 10Hz for
band)	Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.2.2.4. TEST PROCEDURE (please refer to measurement standard)

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 0.8 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

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Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

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- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

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- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

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- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Pre measurement:

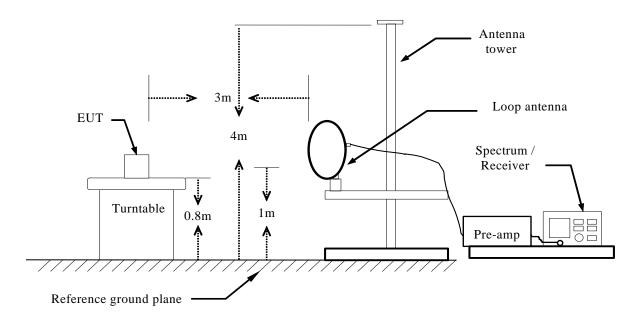
--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

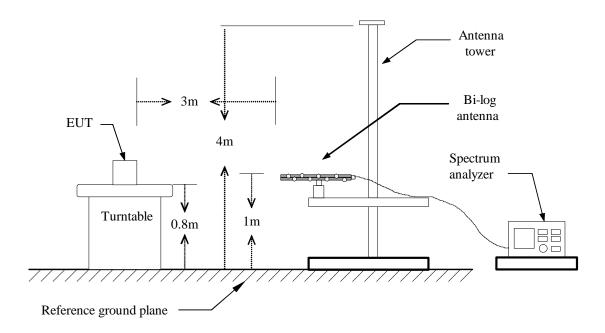
- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

7.2.2.5. TEST SETUP

Below 30MHz

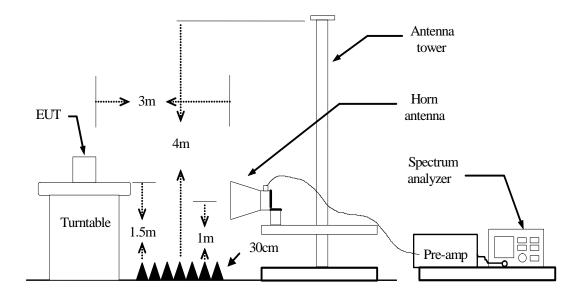


Below 1 GHz



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Above 1 GHz



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

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7.2.2.6. 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
XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

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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	62.09	-11.42	50.67	74.00	-23.33	V	Peak
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

7.2.2.7. TEST RESULTS

Below 1 GHz

Test Mode: TX Tested by: Darry Wu

Ambient temperature: 24°C Relative humidity: 52% RH Date: August 20, 2016

Report No.: C160712Z05-RP1

	-						
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
37.7600	47.93	-15.48	32.45	40.00	-7.55	V	QP
228.8500	60.94	-21.68	39.26	46.00	-6.74	V	QP
347.1900	53.77	-17.80	35.97	46.00	-10.03	V	QP
399.5700	58.58	-16.10	42.48	46.00	-3.52	V	QP
424.7900	48.72	-15.50	33.22	46.00	-12.78	V	QP
952.4700	40.31	-9.14	31.17	46.00	-14.83	V	QP
185.2000	63.88	-22.90	40.98	43.50	-2.52	Н	QP
238.5500	66.02	-21.55	44.47	46.00	-1.53	Н	QP
399.5700	51.57	-16.10	35.47	46.00	-10.53	Н	QP
480.0800	47.54	-14.36	33.18	46.00	-12.82	Н	QP
640.1300	42.68	-12.47	30.21	46.00	-15.79	Н	QP
768.1700	36.81	-11.11	25.70	46.00	-20.30	Н	QP

^{**}Remark: 1. No emission found between lowest internal used/generated frequency to 30MHz.

2. Pre-scan all mode and recorded the worst case results in this report (802.11b (Low Channel)

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).
Reading (dBµV/m)
Correction Factor (dB)

Margin (dB)

= Emission frequency in MHz

 $dB\mu V/m$) = Receiver reading

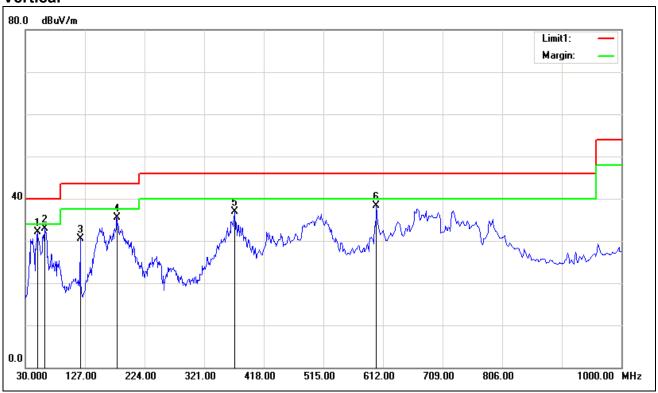
= Antenna factor + Cable loss – Amplifier gain

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

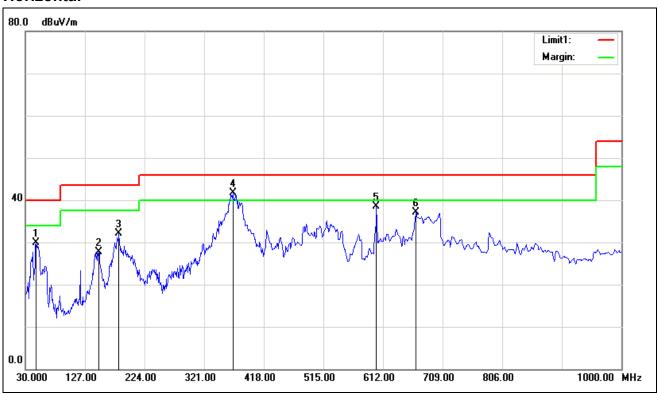
= Measured $(dB\mu V/m)$ – Limits $(dB\mu V/m)$

Antenna Pol e(H/V) = Current carrying line of reading

Vertical



Horizontal



Above 1 GHz Antenna 0

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

Tested by: Darry Wu

Report No.: C160712Z05-RP1

Ambient temperature: 24°C Relative humidity: 52% RH Date: August 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1585.000	48.38	-6.73	41.65	74.00	-32.35	V	peak
2494.000	45.38	-2.29	43.09	74.00	-30.91	V	peak
4825.000	56.00	4.41	60.41	74.00	-13.59	V	peak
4825.000	48.69	4.41	53.10	54.00	-0.90	V	AVG
5644.000	41.96	5.93	47.89	74.00	-26.11	V	peak
6238.000	41.92	6.47	48.39	74.00	-25.61	V	peak
7030.000	41.92	7.76	49.68	74.00	-24.32	V	peak
1801.000	47.49	-6.26	41.23	74.00	-32.77	Н	Peak
2557.000	45.68	-2.16	43.52	74.00	-30.48	Н	Peak
2800.000	45.10	-1.72	43.38	74.00	-30.62	Н	Peak
3853.000	43.97	0.97	44.94	74.00	-29.06	Н	peak
4825.000	44.63	4.41	49.04	74.00	-24.96	Н	peak
6922.000	41.69	7.57	49.26	74.00	-24.74	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)

Tested by: Darry Wu

Report No.: C160712Z05-RP1

Ambient temperature: 24°C Relative humidity: 52% RH Date: August 20,

Ambient temperature: $24^{\circ}C$ Relative humidity: 52% RH									
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark		
1585.000	49.45	-6.73	42.72	74.00	-31.28	V	Peak		
2017.000	47.96	-4.91	43.05	74.00	-30.95	V	Peak		
2197.000	46.56	-3.92	42.64	74.00	-31.36	V	Peak		
2521.000	46.72	-2.22	44.50	74.00	-29.50	V	Peak		
2917.000	44.83	-1.51	43.32	74.00	-30.68	V	Peak		
4870.000	52.12	4.56	56.68	74.00	-17.32	V	Peak		
4870.000	48.71	4.56	53.27	54.00	-0.73	V	AVG		
2566.000	45.35	-2.14	43.21	74.00	-30.79	Н	Peak		
3250.000	44.49	-0.94	43.55	74.00	-30.45	Н	Peak		
4465.000	42.45	3.23	45.68	74.00	-28.32	Н	Peak		
4744.000	42.57	4.15	46.72	74.00	-27.28	Н	Peak		
4870.000	45.22	4.56	49.78	74.00	-24.22	Н	Peak		
5590.000	41.42	5.91	47.33	74.00	-26.67	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 High)

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

Date: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1801.000	47.84	-6.26	41.58	74.00	-32.42	V	Peak
2197.000	45.88	-3.92	41.96	74.00	-32.04	V	Peak
3205.000	44.29	-1.02	43.27	74.00	-30.73	V	Peak
4924.000	46.61	4.73	51.34	74.00	-22.66	V	Peak
5797.000	41.25	5.99	47.24	74.00	-26.76	V	Peak
7021.000	40.67	7.74	48.41	74.00	-25.59	V	Peak
1288.000	47.33	-7.47	39.86	74.00	-34.14	Н	Peak
2125.000	47.27	-4.31	42.96	74.00	-31.04	Н	Peak
3268.000	43.48	-0.91	42.57	74.00	-31.43	Н	Peak
4348.000	42.29	2.81	45.10	74.00	-28.90	Н	Peak
4924.000	42.37	4.73	47.10	74.00	-26.90	Н	Peak
6310.000	40.93	6.58	47.51	74.00	-26.49	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 802.11b(CH Low)

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

Date: August 20, 2016

Report No.: C160712Z05-RP1

Correction Antenna Frequency Reading Result Limit Margin Remark Pole **Factor** (dBuV) (dBuV/m) (dBuV/m) (MHz) (dB) (dB/m) (V/H) 1585.000 49.04 -6.73 42.31 74.00 -31.69 V peak 1900.000 47.44 -5.63 41.81 74.00 -32.19V peak -4.31 43.92 74.00 ٧ 2125.000 48.23 -30.08peak V 43.20 1.83 45.03 74.00 -28.97 4069.000 peak 4825.000 43.47 4.41 47.88 74.00 -26.12 ٧ peak ٧ 6958.000 41.39 7.63 49.02 74.00 -24.98peak 74.00 1738.000 47.23 -6.4040.83 -33.17 Н Peak Н Peak 2125.000 -4.3143.87 74.00 -30.13 48.18

REMARKS:

4465.000

5086.000

6670.000

7201.000

42.74

41.81

41.32

40.71

3.23

5.13

7.17

8.09

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

74.00

74.00

74.00

74.00

-28.03

-27.06

-25.51

-25.20

Н

Н

Н

Н

Peak

peak

peak

peak

- 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.

45.97

46.94

48.49

48.80

- 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: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1585.000	47.19	-6.73	40.46	74.00	-33.54	V	Peak
2125.000	52.63	-4.31	48.32	74.00	-25.68	V	Peak
2557.000	46.29	-2.16	44.13	74.00	-29.87	V	Peak
4870.000	45.43	4.56	49.99	74.00	-24.01	V	Peak
5464.000	42.05	5.81	47.86	74.00	-26.14	V	Peak
8092.000	40.63	9.60	50.23	74.00	-23.77	V	Peak
1108.000	49.91	-8.14	41.77	74.00	-32.23	Н	Peak
2125.000	49.89	-4.31	45.58	74.00	-28.42	Н	Peak
2548.000	46.02	-2.17	43.85	74.00	-30.15	Н	Peak
3853.000	43.53	0.97	44.50	74.00	-29.50	Н	Peak
4510.000	41.63	3.38	45.01	74.00	-28.99	Н	Peak
6337.000	40.90	6.63	47.53	74.00	-26.47	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

Date: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1801.000	47.68	-6.26	41.42	74.00	-32.58	V	Peak
2017.000	50.38	-4.91	45.47	74.00	-28.53	V	Peak
2197.000	53.49	-3.92	49.57	74.00	-24.43	V	Peak
4924.000	46.49	4.73	51.22	74.00	-22.78	V	Peak
6310.000	41.71	6.58	48.29	74.00	-25.71	V	Peak
8380.000	41.78	9.44	51.22	74.00	-22.78	V	Peak
1342.000	48.02	-7.27	40.75	74.00	-33.25	Н	Peak
2125.000	49.09	-4.31	44.78	74.00	-29.22	Н	Peak
2791.000	45.23	-1.74	43.49	74.00	-30.51	Н	Peak
4582.000	42.02	3.62	45.64	74.00	-28.36	Н	Peak
4996.000	41.37	4.97	46.34	74.00	-27.66	Н	Peak
6886.000	41.33	7.52	48.85	74.00	-25.15	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 0

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

Tested by: Darry Wu

Report No.: C160712Z05-RP1

Ambient temperature: 24°C Relative humidity: 52% RH Date: August 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1306.000	48.58	-7.40	41.18	74.00	-32.82	V	Peak
2521.000	46.45	-2.22	44.23	74.00	-29.77	V	Peak
4555.000	43.11	3.53	46.64	74.00	-27.36	V	Peak
4825.000	49.38	4.41	53.79	74.00	-20.21	V	Peak
4825.000	38.29	4.41	42.70	54.00	-11.30	V	AVG
5023.000	42.66	5.02	47.68	74.00	-26.32	V	Peak
6481.000	41.09	6.86	47.95	74.00	-26.05	V	Peak
1288.000	48.21	-7.47	40.74	74.00	-33.26	Н	Peak
2251.000	46.11	-3.62	42.49	74.00	-31.51	Н	Peak
3196.000	44.47	-1.03	43.44	74.00	-30.56	Н	Peak
3880.000	43.50	1.08	44.58	74.00	-29.42	Н	Peak
4825.000	43.67	4.41	48.08	74.00	-25.92	Н	Peak
6805.000	41.02	7.38	48.40	74.00	-25.60	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).

5.63

9.23

41.17

41.41

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

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: August 20, 2016

Report No.: C160712Z05-RP1

Correction **Antenna** Frequency Reading Result Limit Margin Remark **Factor** Pole (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) (V/H) (dB/m) 1585.000 50.20 -6.7343.47 74.00 -30.53 Peak 42.12 2143.000 46.34 -4.22 74.00 -31.88 ٧ Peak 4879.000 44.02 4.59 48.61 74.00 -25.39V Peak 5.85 47.71 74.00 5491.000 41.86 -26.29Peak 74.00 6877.000 40.78 7.50 48.28 -25.72 V Peak 7723.000 41.12 9.11 50.23 74.00 -23.77 V Peak 1801.000 47.69 -6.2641.43 74.00 -32.57Н Peak -4.22 41.72 74.00 Н 2143.000 45.94 -32.28Peak -2.17 43.95 74.00 -30.05 Н Peak 2548.000 46.12 4879.000 41.80 4.59 46.39 74.00 -27.61 Н Peak

REMARKS:

5365.000

7786.000

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

74.00

74.00

-27.20

-23.36

Н

Н

Peak

Peak

- 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.

46.80

50.64

- 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: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1801.000	50.55	-6.26	44.29	74.00	-29.71	V	Peak
3502.000	45.31	-0.51	44.80	74.00	-29.20	V	Peak
4933.000	42.89	4.76	47.65	74.00	-26.35	V	Peak
5527.000	42.92	5.88	48.80	74.00	-25.20	V	Peak
6553.000	42.32	6.98	49.30	74.00	-24.70	V	Peak
7786.000	42.18	9.23	51.41	74.00	-22.59	V	Peak
1216.000	49.94	-7.73	42.21	74.00	-31.79	Н	Peak
1801.000	48.63	-6.26	42.37	74.00	-31.63	Н	Peak
2152.000	47.27	-4.17	43.10	74.00	-30.90	Н	Peak
3403.000	45.23	-0.68	44.55	74.00	-29.45	Н	Peak
4303.000	43.95	2.66	46.61	74.00	-27.39	Н	Peak
5284.000	43.02	5.49	48.51	74.00	-25.49	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).

Antenna 1

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

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

Date: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1378.000	47.13	-7.14	39.99	74.00	-34.01	V	Peak
2125.000	51.59	-4.31	47.28	74.00	-26.72	V	Peak
2521.000	46.17	-2.22	43.95	74.00	-30.05	V	Peak
3241.000	44.65	-0.96	43.69	74.00	-30.31	V	Peak
4348.000	42.53	2.81	45.34	74.00	-28.66	V	Peak
4879.000	41.69	4.59	46.28	74.00	-27.72	V	Peak
1342.000	47.37	-7.27	40.10	74.00	-33.90	Н	Peak
2152.000	48.18	-4.17	44.01	74.00	-29.99	Н	Peak
3205.000	44.02	-1.02	43.00	74.00	-31.00	Н	Peak
5590.000	40.70	5.91	46.61	74.00	-27.39	Н	Peak
6256.000	41.12	6.49	47.61	74.00	-26.39	Н	Peak
8443.000	41.32	9.41	50.73	74.00	-23.27	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: August 20, 2016

Report No.: C160712Z05-RP1

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Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1585.000	49.65	-6.73	42.92	74.00	-31.08	V	Peak
2125.000	51.83	-4.31	47.52	74.00	-26.48	V	Peak
2512.000	45.88	-2.24	43.64	74.00	-30.36	V	Peak
3196.000	45.04	-1.03	44.01	74.00	-29.99	V	Peak
4879.000	42.63	4.59	47.22	74.00	-26.78	V	Peak
8452.000	41.36	9.40	50.76	74.00	-23.24	V	Peak
2152.000	49.16	-4.17	44.99	74.00	-29.01	Н	Peak
2539.000	46.20	-2.19	44.01	74.00	-29.99	Н	Peak
3160.000	44.33	-1.09	43.24	74.00	-30.76	Н	Peak
4006.000	42.87	1.61	44.48	74.00	-29.52	Н	Peak
5770.000	42.10	5.98	48.08	74.00	-25.92	Н	Peak
8362.000	42.01	9.45	51.46	74.00	-22.54	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

Tested by: Darry Wu

Date: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1000.0000	49.42	-9.36	40.06	74.00	-33.94	\(\forall \(\forall \)	Peak
2125.000	50.23	-4.31	45.92	74.00	-28.08	V	Peak
6958.000	41.44	7.63	49.07	74.00	-24.93	V	Peak
7390.000	41.03	8.46	49.49	74.00	-24.51	V	Peak
8020.000	40.85	9.64	50.49	74.00	-23.51	V	Peak
8497.000	41.29	9.38	50.67	74.00	-23.33	V	Peak
1801.000	46.60	-6.26	40.34	74.00	-33.66	Н	Peak
2125.000	49.29	-4.31	44.98	74.00	-29.02	Н	Peak
2800.000	45.32	-1.72	43.60	74.00	-30.40	Н	Peak
4879.000	41.92	4.59	46.51	74.00	-27.49	Н	Peak
5275.000	41.30	5.47	46.77	74.00	-27.23	Н	Peak
7957.000	41.49	9.57	51.06	74.00	-22.94	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).

Combine with Antenna 0 and Antenna 1

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

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2179.000	52.82	-4.02	48.80	74.00	-25.20	V	Peak
2476.000	46.48	-2.39	44.09	74.00	-29.91	V	Peak
3898.000	44.54	1.16	45.70	74.00	-28.30	V	Peak
4402.000	43.47	3.01	46.48	74.00	-27.52	V	Peak
4825.000	46.91	4.41	51.32	74.00	-22.68	V	Peak
8011.000	41.76	9.64	51.40	74.00	-22.60	V	Peak
1801.000	48.75	-6.26	42.49	74.00	-31.51	Н	Peak
2125.000	52.03	-4.31	47.72	74.00	-26.28	Н	Peak
4357.000	43.38	2.85	46.23	74.00	-27.77	Н	Peak
4816.000	43.14	4.38	47.52	74.00	-26.48	Н	Peak
5581.000	42.79	5.90	48.69	74.00	-25.31	Н	Peak
8371.000	42.26	9.45	51.71	74.00	-22.29	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)

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

Date: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2179.000	52.74	-4.02	48.72	74.00	-25.28	V	Peak
4393.000	43.61	2.97	46.58	74.00	-27.42	V	Peak
4879.000	45.47	4.59	50.06	74.00	-23.94	V	Peak
6256.000	42.23	6.49	48.72	74.00	-25.28	V	Peak
6985.000	41.85	7.68	49.53	74.00	-24.47	V	Peak
7696.000	42.04	9.06	51.10	74.00	-22.90	V	Peak
1801.000	48.29	-6.26	42.03	74.00	-31.97	Н	Peak
2125.000	50.58	-4.31	46.27	74.00	-27.73	Н	Peak
2548.000	46.38	-2.17	44.21	74.00	-29.79	Н	Peak
4987.000	43.68	4.94	48.62	74.00	-25.38	Н	Peak
7021.000	42.29	7.74	50.03	74.00	-23.97	Н	Peak
8011.000	41.81	9.64	51.45	74.00	-22.55	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 / EEE 802.11n HT20 MHz (CH High)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: August 20, 2016

Report No.: C160712Z05-RP1

	• ———			-			
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2125.000	54.06	-4.31	49.75	74.00	-24.25	V	Peak
2503.000	47.03	-2.25	44.78	74.00	-29.22	V	Peak
4159.000	43.88	2.15	46.03	74.00	-27.97	V	Peak
4915.000	43.69	4.70	48.39	74.00	-25.61	V	Peak
6337.000	43.14	6.63	49.77	74.00	-24.23	V	Peak
7750.000	42.08	9.16	51.24	74.00	-22.76	V	Peak
1783.000	48.05	-6.31	41.74	74.00	-32.26	Н	Peak
2125.000	50.45	-4.31	46.14	74.00	-27.86	Н	Peak
4771.000	42.99	4.23	47.22	74.00	-26.78	Н	Peak
5464.000	42.65	5.81	48.46	74.00	-25.54	Н	Peak
5968.000	42.63	6.07	48.70	74.00	-25.30	Н	Peak
6922.000	42.00	7.57	49.57	74.00	-24.43	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).

Combine with Antenna 0 and Antenna 1

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

Tested by: Darry Wu

Report No.: C160712Z05-RP1

Ambient temperature: 24°C Relative humidity: 52% RH Date: August 20, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1432.000	50.92	-7.00	43.92	74.00	-30.08	V	Peak
1585.000	49.58	-6.73	42.85	74.00	-31.15	V	Peak
2125.000	53.56	-4.31	49.25	74.00	-24.75	V	Peak
4816.000	44.49	4.38	48.87	74.00	-25.13	V	Peak
5032.000	43.81	5.04	48.85	74.00	-25.15	V	Peak
7768.000	42.07	9.20	51.27	74.00	-22.73	V	Peak
2125.000	49.98	-4.31	45.67	74.00	-28.33	Н	Peak
2521.000	45.67	-2.22	43.45	74.00	-30.55	Н	Peak
4060.000	43.11	1.80	44.91	74.00	-29.09	Н	Peak
5581.000	41.69	5.90	47.59	74.00	-26.41	Н	Peak
7003.000	41.56	7.71	49.27	74.00	-24.73	Н	Peak
7786.000	40.88	9.23	50.11	74.00	-23.89	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 802.11n HT40 MHz (CH Mid)

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: August 20, 2016

Report No.: C160712Z05-RP1

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2197.000	49.44	-3.92	45.52	74.00	-28.48	V	Peak
2557.000	45.76	-2.16	43.60	74.00	-30.40	V	Peak
4402.000	42.30	3.01	45.31	74.00	-28.69	V	Peak
4897.000	42.17	4.64	46.81	74.00	-27.19	V	Peak
6058.000	41.66	6.17	47.83	74.00	-26.17	V	Peak
7579.000	40.97	8.83	49.80	74.00	-24.20	V	Peak
1585.000	51.13	-6.73	44.40	74.00	-29.60	Н	Peak
2098.000	49.03	-4.46	44.57	74.00	-29.43	Н	Peak
3997.000	42.92	1.58	44.50	74.00	-29.50	Н	Peak
5482.000	41.90	5.84	47.74	74.00	-26.26	Н	Peak
6301.000	40.40	6.57	46.97	74.00	-27.03	Н	Peak
8353.000	41.69	9.46	51.15	74.00	-22.85	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: August 20, 2016

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Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2125.000	51.50	-4.31	47.19	74.00	-26.81	V	Peak
2953.000	44.49	-1.44	43.05	74.00	-30.95	V	Peak
4294.000	42.58	2.62	45.20	74.00	-28.80	V	Peak
4537.000	42.23	3.47	45.70	74.00	-28.30	V	Peak
5338.000	41.59	5.58	47.17	74.00	-26.83	V	Peak
6733.000	40.62	7.27	47.89	74.00	-26.11	V	Peak
2125.000	49.25	-4.31	44.94	74.00	-29.06	Н	Peak
2521.000	45.97	-2.22	43.75	74.00	-30.25	Н	Peak
3763.000	43.68	0.59	44.27	74.00	-29.73	Н	Peak
5365.000	41.31	5.63	46.94	74.00	-27.06	Н	Peak
6931.000	40.88	7.59	48.47	74.00	-25.53	Н	Peak
7912.000	40.47	9.48	49.95	74.00	-24.05	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).

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.

7.3.2. TEST INSTRUMENTS

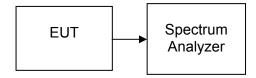
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

7.3.3. TEST PROCEDURES (please refer to measurement standard)

8.1 Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

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

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit	Test Result
		Antenna 0	Antenna 1	(kHz)	
Low	2412	10120	10120	>500	PASS
Mid	2437	10120	10120		PASS
High	2462	10110	10120		PASS

Test mode: IEEE 802.11g

Channel	Frequency	Bandwidth (kHz)		Limit	Test Result
	(MHz)	Antenna 0	Antenna 1	(kHz)	
Low	2412	16440	16420	>500	PASS
Mid	2437	16430	16440		PASS
High	2462	16410	16420		PASS

Test mode: IEEE 802.11n HT20 MHz

Channel	Frequency	Bandwidth (kHz)		Limit	Test Result
	(MHz)	Antenna 0	Antenna 1	(kHz)	
Low	2412	17630	17340	>500	PASS
Mid	2437	17600	17590		PASS
High	2462	17620	17590		PASS

Test mode: IEEE 802.11n HT40 MHz

Channel	Frequency	Bandwidth (kHz)		Limit	Test Result
	(MHz)	Antenna 0	Antenna 1	(kHz)	
Low	2422	36150	36140	>500	PASS
Mid	2437	36380	36110		PASS
High	2452	36390	36150		PASS

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Test Plot

