



FCC 47 CFR PART 15 SUBPART C

for

Deng WiFi-BUFI bulb lamp

Model: BL-BUFI, BL-BUFI-KIT, BL-BUFI-PRO, BL-BUFI-PRO-KIT,
BL-BUFI-S-KIT, BL-BUFI-S, BL-BUFI-S-PRO-KIT, BL-BUFI-S-PRO



Brand: FAMILIES

Test Report Number:

C161206Z06-RP1

Issued Date: December 22, 2016

Issued for

Shenzhen Bling Lighting Technologies CO., LTD

West of 3rd Floor, Building A of CNNC, Qiyu Road, East of Baishixia,
Fuyong, Bao'an, Shenzhen, Guangdong, China

Issued by:

Compliance Certification Services (Shenzhen) Inc.

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TESTING CERT #2861.01

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	December 22, 2016	Initial Issue	ALL	Sabrina Wang




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1 TEST CERTIFICATION

Product	Deng WiFi-BUFI bulb lamp
Model	BL-BUFI, BL-BUFI-KIT, BL-BUFI-PRO, BL-BUFI-PRO-KIT, BL-BUFI-S-KIT, BL-BUFI-S, BL-BUFI-S-PRO-KIT, BL-BUFI-S-PRO
Brand	 FAMILIES
Tested	December 6~22, 2016
Applicant	Shenzhen Bling Lighting Technologies CO., LTD West of 3 rd Floor, Building A of CNNC, Qiyu Road, East of Baishixia, Fuyong, Bao'an, Shenzhen, Guangdong, China
Manufacturer	Shenzhen Bling Lighting Technologies CO., LTD West of 3 rd Floor, Building A of CNNC, Qiyu Road, East of Baishixia, Fuyong, Bao'an, Shenzhen, Guangdong, China

APPLICABLE STANDARDS			
Standard	Test Type	Standard	Test Type
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	● Spurious Emissions ● Conducted Measurement ● Radiated 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.

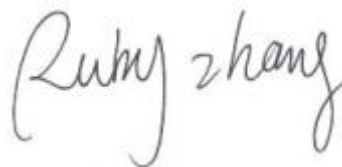
The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:



Sunday Hu
Supervisor of EMC Dept.
Compliance Certification Services (Shenzhen) Inc.

Reviewed by:



Ruby Zhang
Supervisor of Report Dept.
Compliance Certification Services (Shenzhen) 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)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.247(d) 15.209(a)	● Spurious Emissions ● Conducted Measurement ● Radiated 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	Deng WiFi-BUFI bulb lamp
Model Number	BL-BUFI, BL-BUFI-KIT, BL-BUFI-PRO, BL-BUFI-PRO-KIT, BL-BUFI-S-KIT, BL-BUFI-S, BL-BUFI-S-PRO-KIT, BL-BUFI-S-PRO
Brand	
Model Discrepancy	BL-BUFI (BUFI(bulb lamp) using QCA6410 PLC Module) BL-BUFI-KIT (Kit package including BUFI(bulb lamp) and the Encoder using QCA6410 PLC Module) BL-BUFI-PRO (RGBW Color BUFI(bulb lamp) using QCA6410 PLC Module) BL-BUFI-PRO-KIT (Kit package including RGBW Color BUFI(bulb lamp) and the Encoder using QCA6410 PLC Module) BL-BUFI-S (BUFI S(bulb lamp) using QCA7420 PLC Module) BL-BUFI-S-KIT (Kit package including BUFI S(bulb lamp) and the Encoder using QCA7420 PLC Module) BL-BUFI-S-PRO (RGBW Color BUFI S(bulb lamp) using QCA7420 PLC Module) BL-BUFI-S-PRO-KIT (Kit package including RGBW Color(bulb lamp) BUFI and the Encoder using QCA7420 PLC Module)
Identify Number	C161206Z06-RP1
Received Date	December 6, 2016
Power Supply	AC 100~240V 50/60Hz 0.09A
Transmit Power	IEEE 802.11b mode: 15.69dBm IEEE 802.11g mode: 20.39dBm IEEE 802.11n HT20 MHz mode: 20.72dBm IEEE 802.11n HT40 MHz mode: 20.02dBm
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: 65Mbps with fall back rates of 65/58.5/52/39/26/19.5/13/6.5Mbps IEEE 802.11n HT40: 130Mbps with fall back rates of 130/121.5/108/81/54/40.5/27/13.5Mbps
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	PCB Antenna with 2.68dBi gain (Max)
Channels Spacing	IEEE 802.11b/g ,802.11n HT20/HT40 : 5MHz
Temperature Range	-25°C ~ +45°C
Hardware Version	V1.0
Software Version	V1.0

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: **2A15T-BL-BUFI** 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.

The EUT run the software **Atheros Radio Test 2 (ART2-GUI)** 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: Normal Link + Light on	<input checked="" type="checkbox"/>
Radiated Emission	Mode 1: Normal Link + Light on Mode 2: TX(Continuously Transmitting)	<input checked="" type="checkbox"/>

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+ Light on** mode only, and power line conducted emission below 30MHz, which worst case was in **normal link+ Light on** 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 6.5Mbps data rate were chosen for full testing.

IEEE 802.11n HT40 MHz mode: Channel Low (2422MHz), Channel Mid (2437MHz) and Channel High (2452MHz) with 13.5Mbps data rate were chosen for full testing.

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case at voltage AC 120V/60Hz .

Radiated Emission test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.



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	Notebook	Probook 5310M	N/A	DoC	HP	Unshielded 1.80m	Shielded 1.80m (AC cable) Unshielded 1.70m (DC cable)

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**

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 (MHz)	Limits (dB μ V)	
	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.

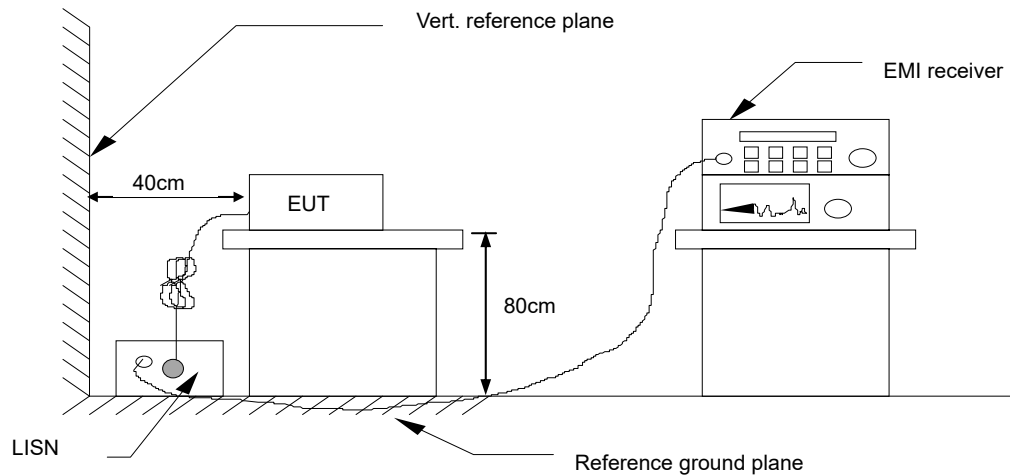


7.1.3. TEST PROCEDURES (please refer to measurement standard)

- 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)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
XXXXXX	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

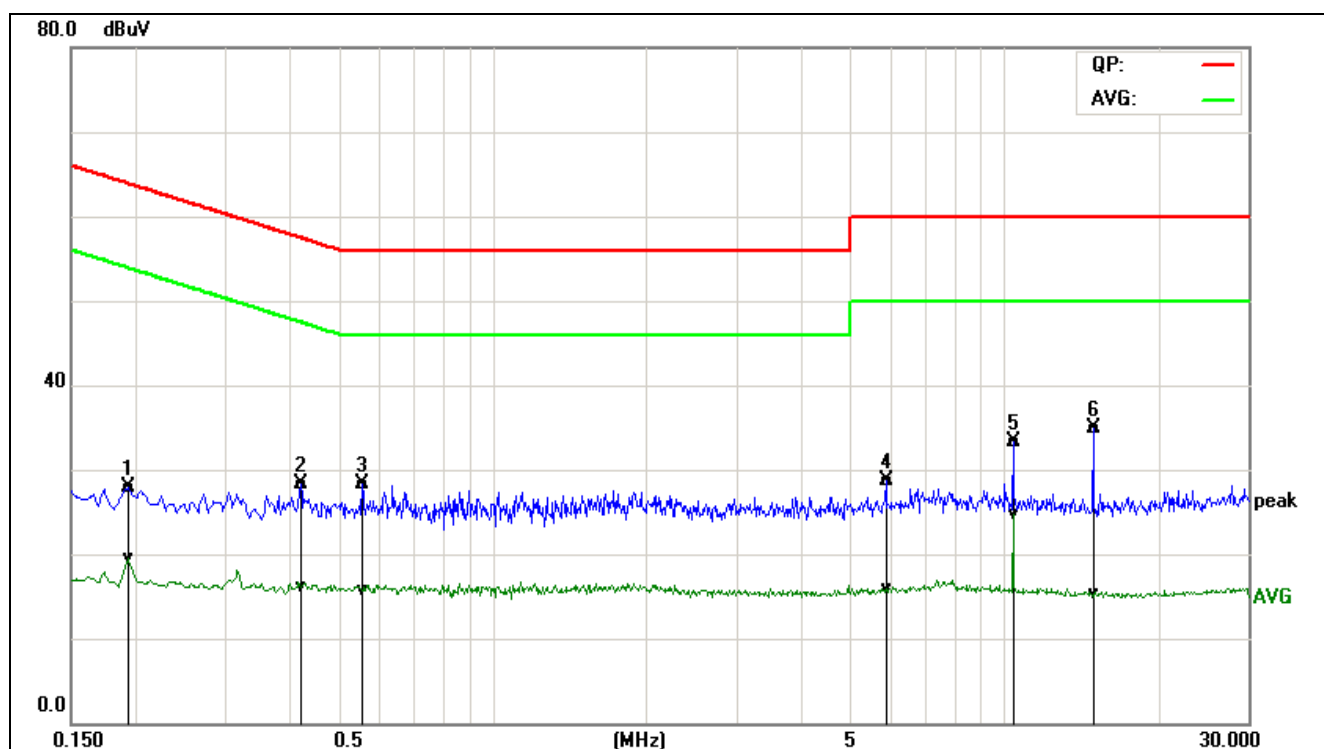
Limit = Limit stated in standard

Margin = Result (dBuV) – Limit (dBuV)



7.1.6. TEST RESULTS

Model No.	BL-BUFI	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	David Dong	Line	L1
Test Date	December 8, 2016		

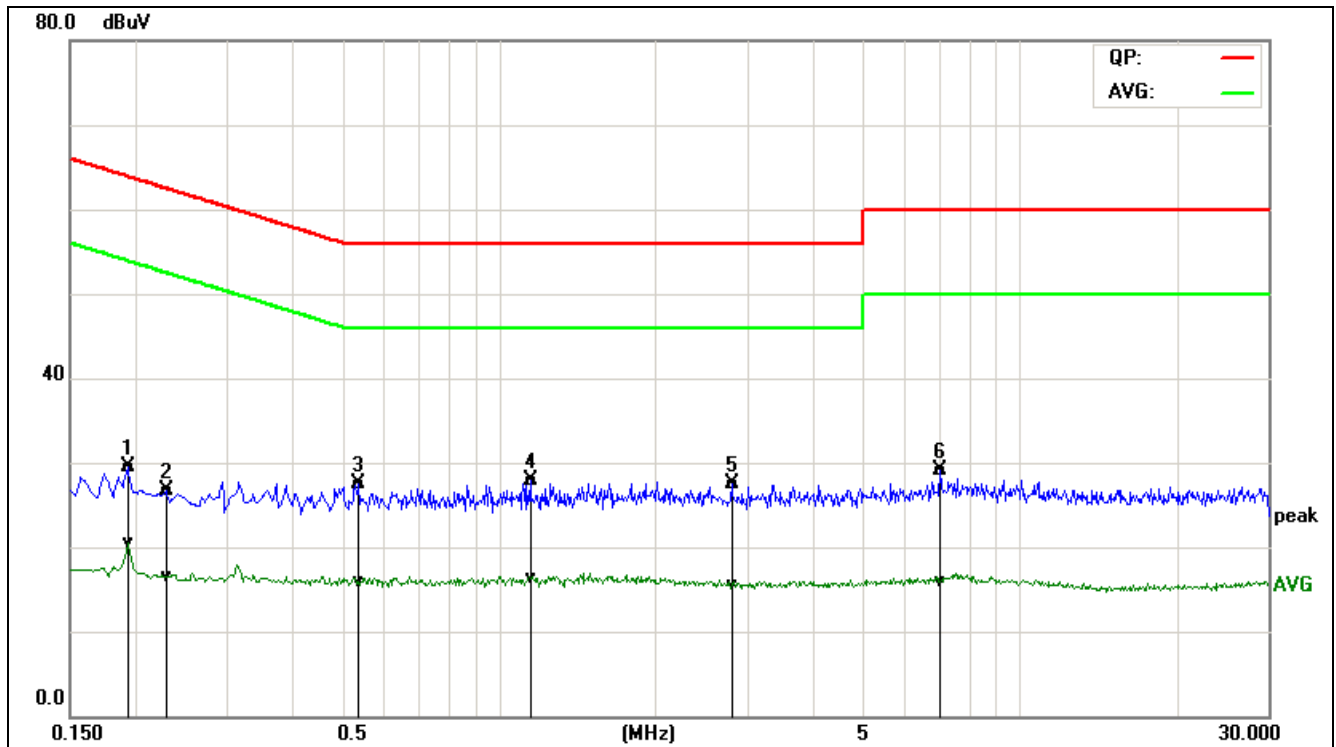


Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1940	8.33	-0.10	19.63	27.96	19.53	63.86	53.86	-35.90	-34.33	Pass	L1
0.4220	8.75	-3.52	19.63	28.38	16.11	57.41	47.41	-29.03	-31.30	Pass	L1
0.5580	8.57	-3.93	19.68	28.25	15.75	56.00	46.00	-27.75	-30.25	Pass	L1
5.8820	9.02	-3.82	19.67	28.69	15.85	60.00	50.00	-31.31	-34.15	Pass	L1
10.4379	13.13	4.56	20.13	33.26	24.69	60.00	50.00	-26.74	-25.31	Pass	L1
14.9420	14.98	-4.64	19.91	34.89	15.27	60.00	50.00	-25.11	-34.73	Pass	L1

REMARKS: L1 = Line One (Live Line)



Model No.	BL-BUFI	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	David Dong	Line	L2
Test Date	December 8, 2016		



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1940	9.73	0.69	19.74	29.47	20.43	63.86	53.86	-34.39	-33.43	Pass	L2
0.2300	7.05	-3.25	19.73	26.78	16.48	62.45	52.45	-35.67	-35.97	Pass	L2
0.5380	7.86	-3.70	19.64	27.50	15.94	56.00	46.00	-28.50	-30.06	Pass	L2
1.1500	8.11	-3.48	19.74	27.85	16.26	56.00	46.00	-28.15	-29.74	Pass	L2
2.7980	7.79	-4.21	19.72	27.51	15.51	56.00	46.00	-28.49	-30.49	Pass	L2
7.0420	9.29	-3.76	19.73	29.02	15.97	60.00	50.00	-30.98	-34.03	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:

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	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 9kHz 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.

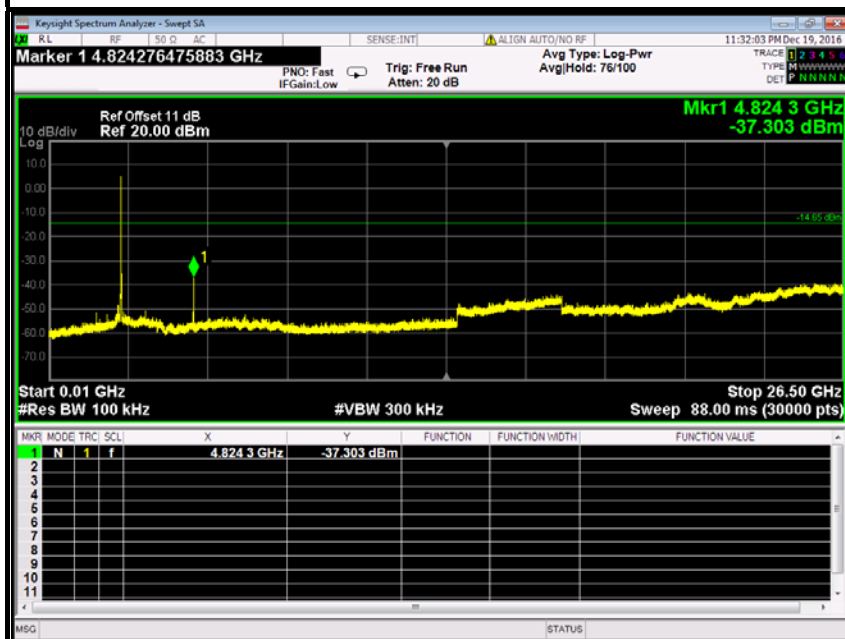


7.2.1.4. TEST RESULTS

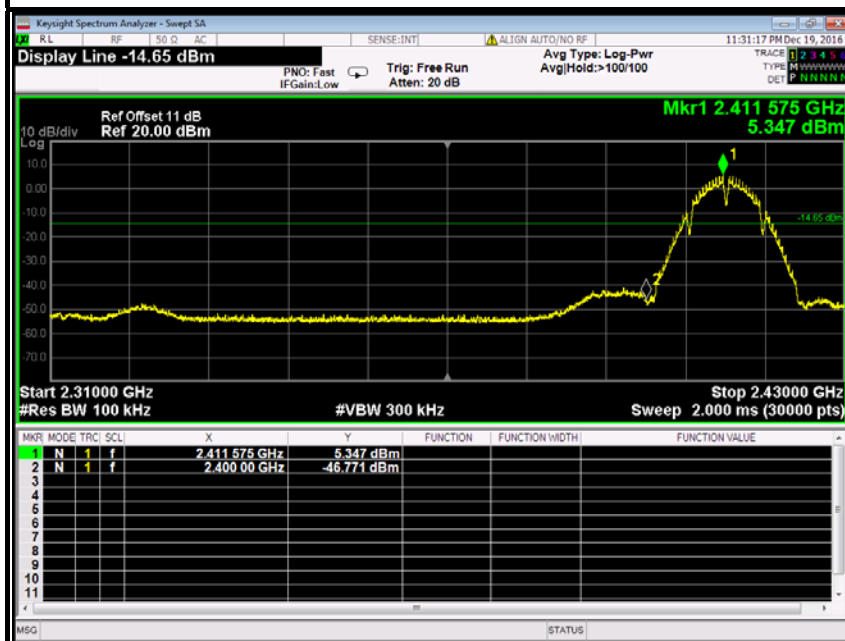
Test Plot

IEEE 802.11b mode

CH Low (10MHz ~26.5GHz)

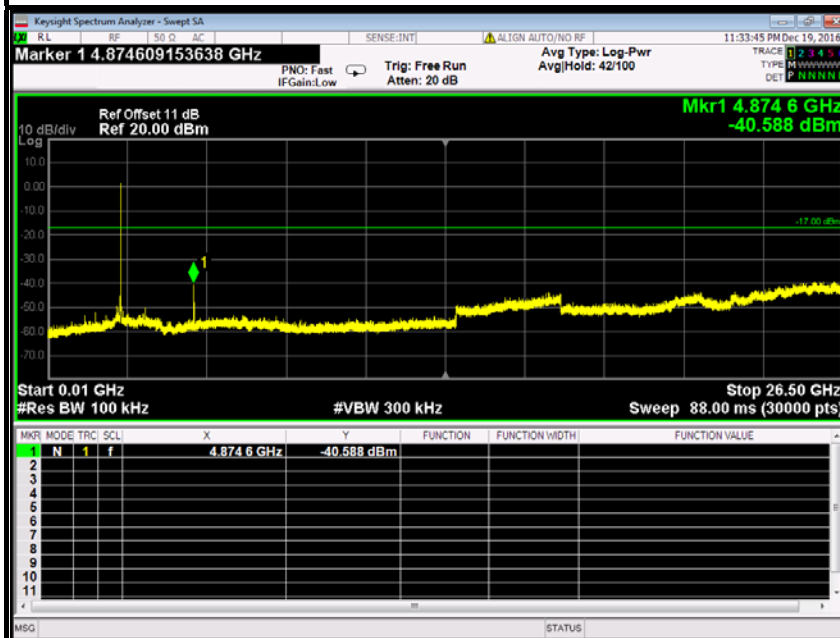


CH Low (2.31GHz ~2.43GHz)

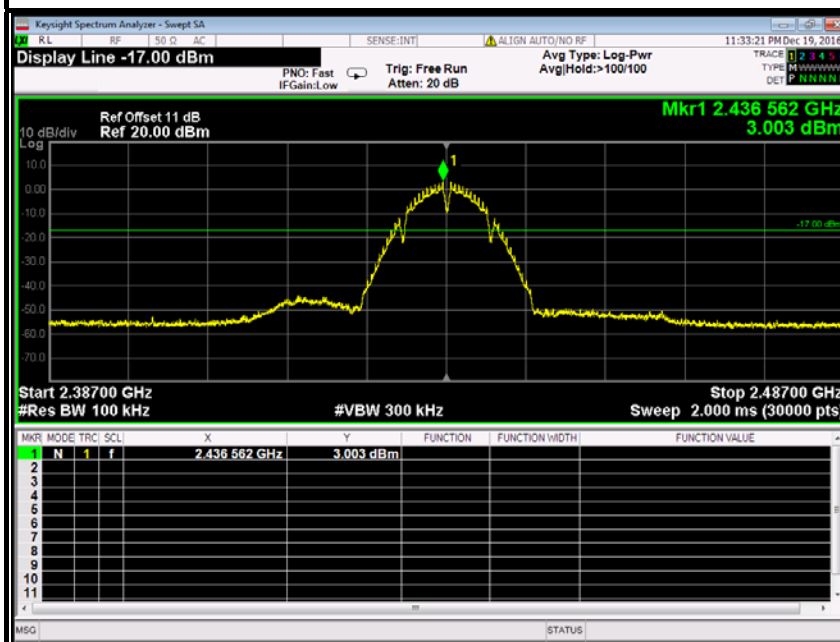




CH Mid (10MHz ~26.5GHz)

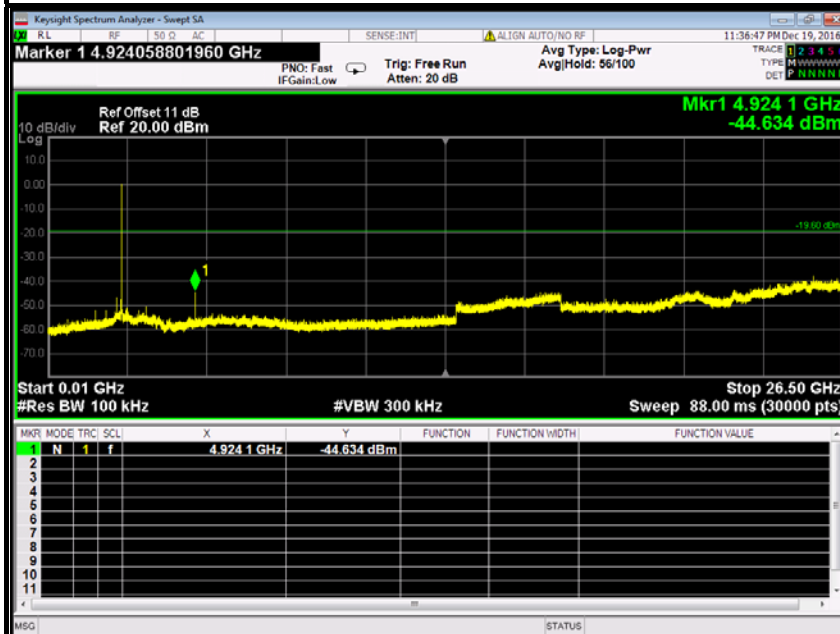


CH Mid (2.387GHz ~2.487GHz)

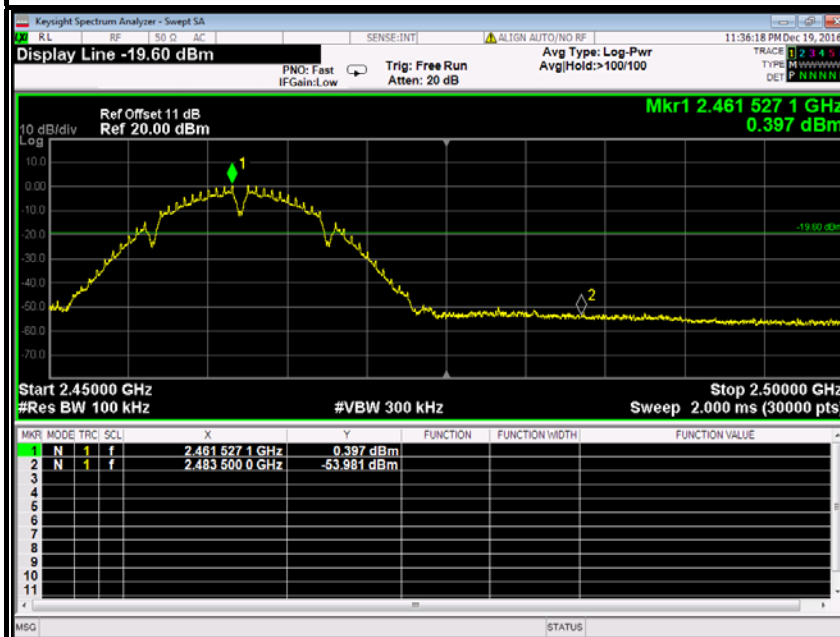




CH High (10MHz ~26.5GHz)



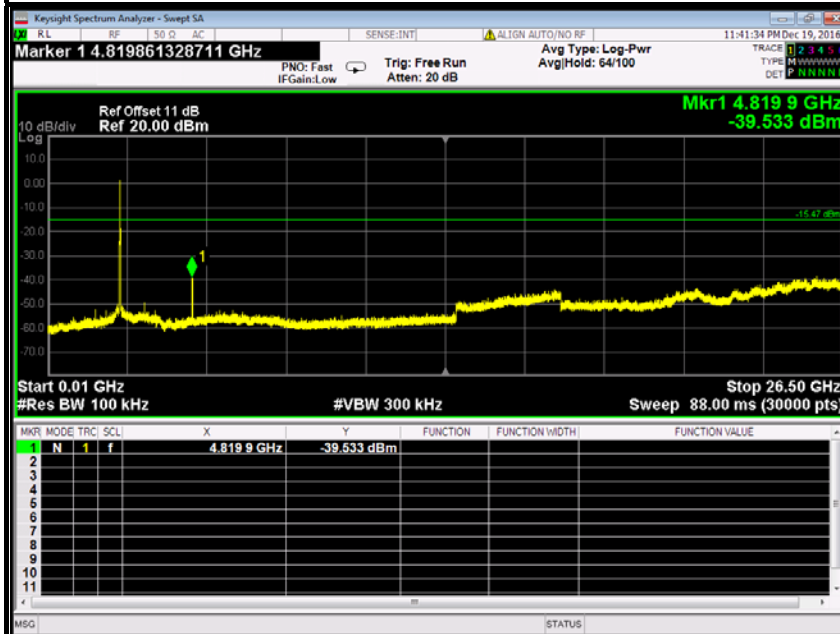
CH High (2.45GHz ~2.5GHz)



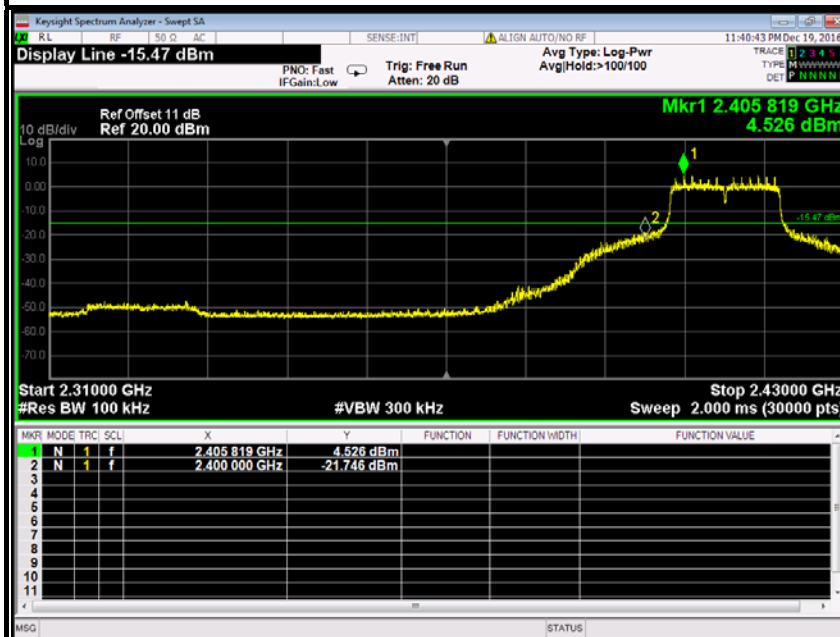


IEEE 802.11g mode

CH Low (10MHz ~26.5GHz)

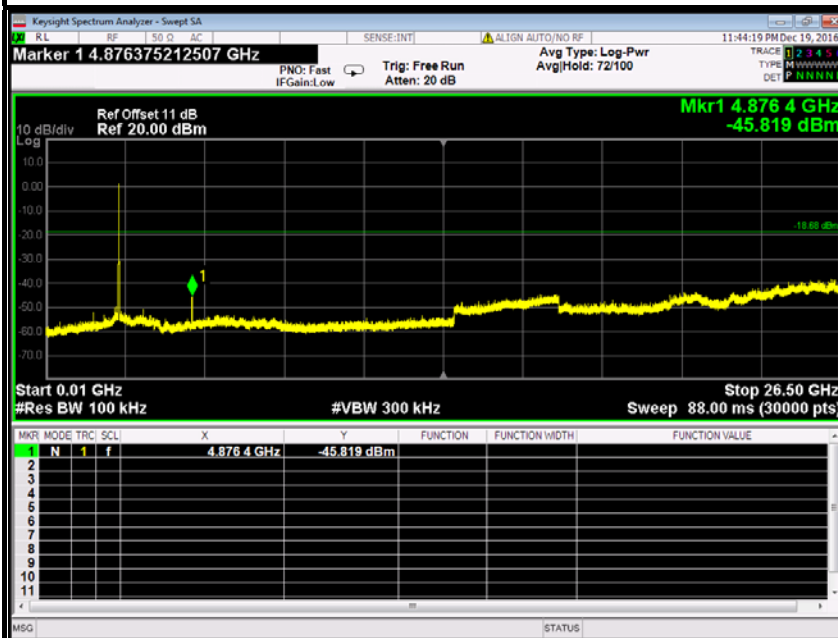


CH Low (2.31GHz ~2.43GHz)

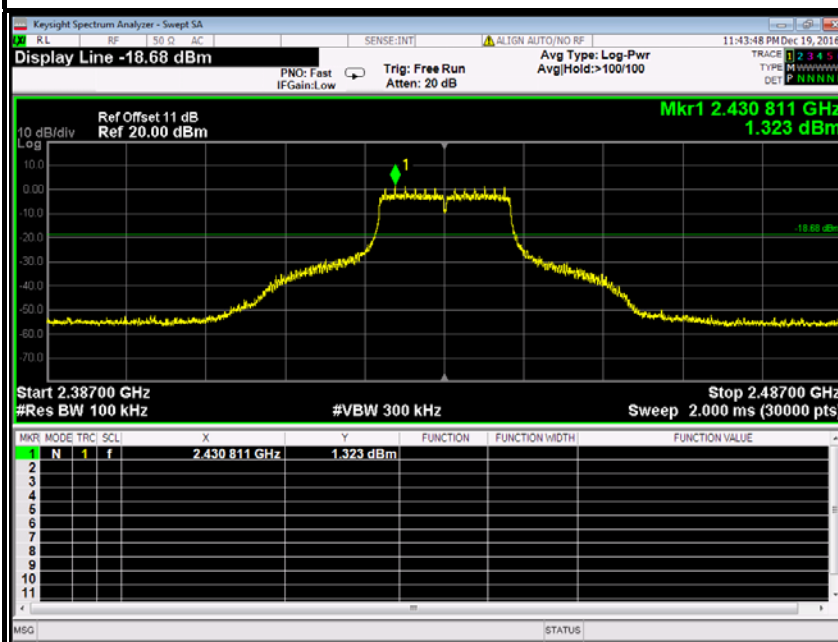




CH Mid (10MHz ~26.5GHz)

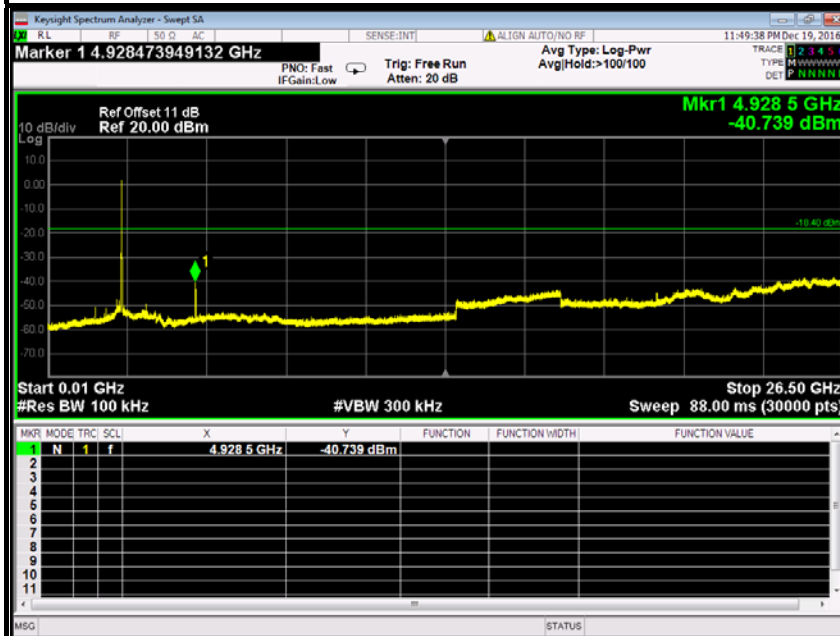


CH Mid (2.387GHz ~2.487GHz)





CH High (10MHz ~26.5GHz)



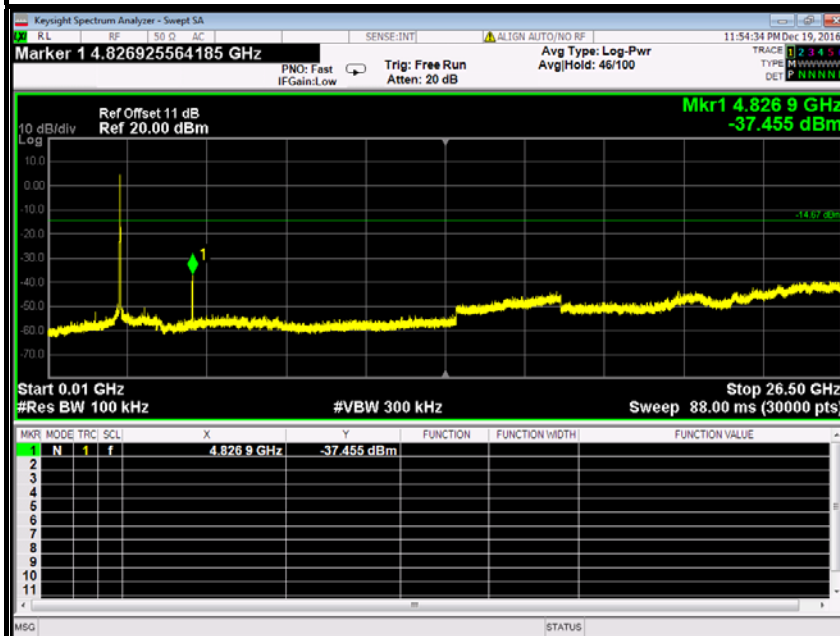
CH High (2.45GHz ~2.5GHz)



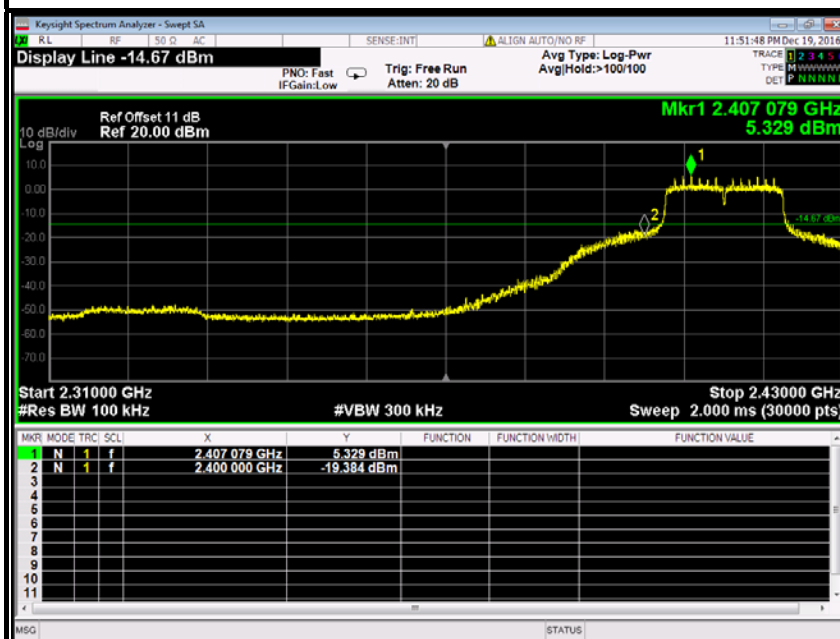


IEEE 802.11n HT20 MHz mode

CH Low (10MHz ~26.5GHz)

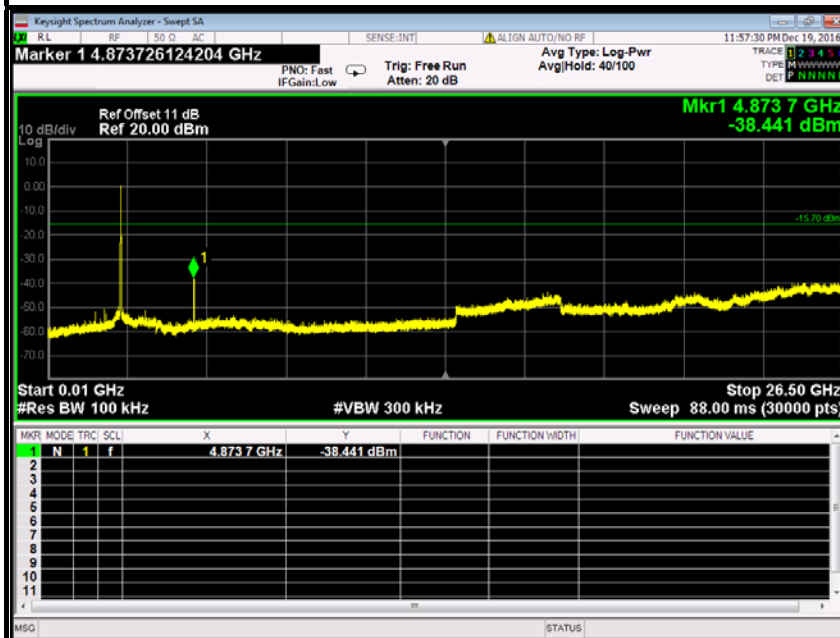


CH Low (2.31GHz ~2.43GHz)

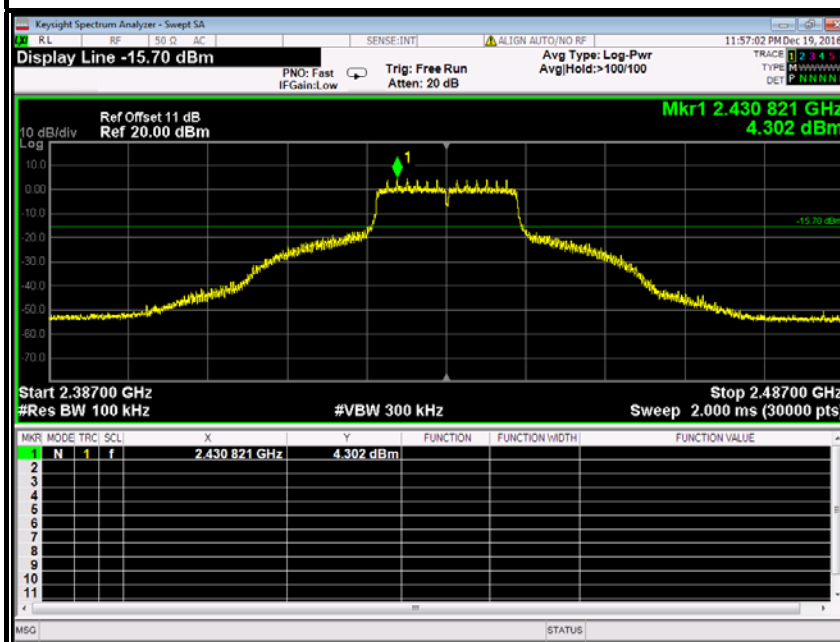




CH Mid (10MHz ~26.5GHz)

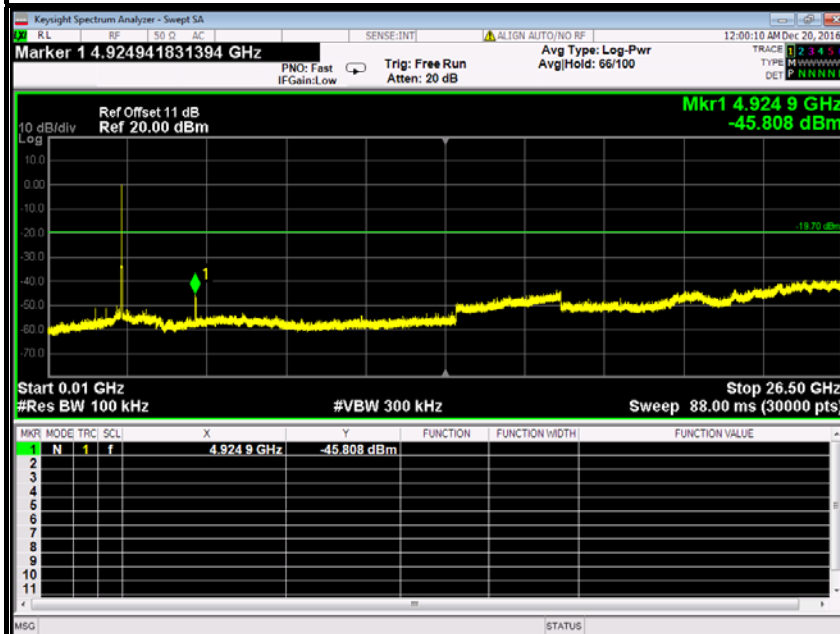


CH Mid (2.387GHz ~2.487GHz)





CH High (10MHz ~26.5GHz)



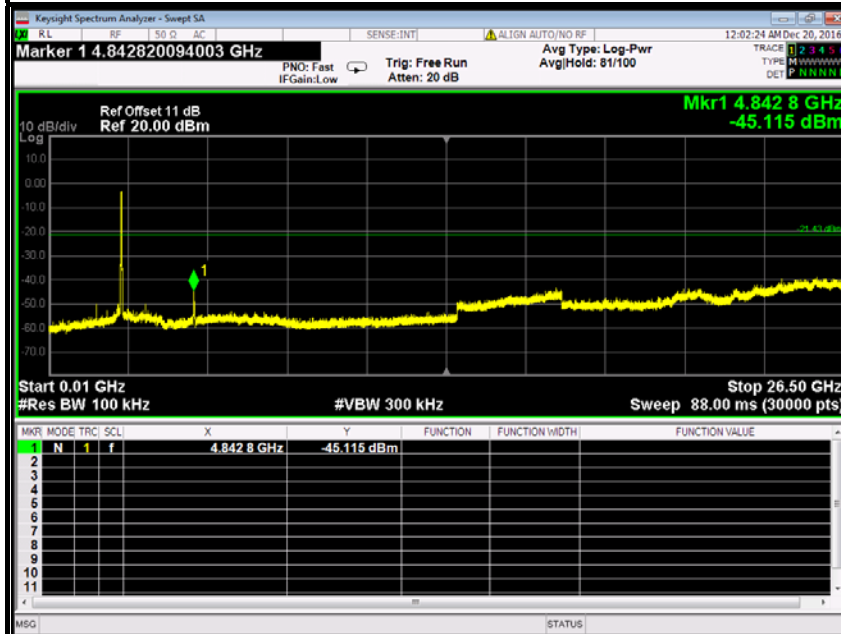
CH High (2.45GHz ~2.5GHz)



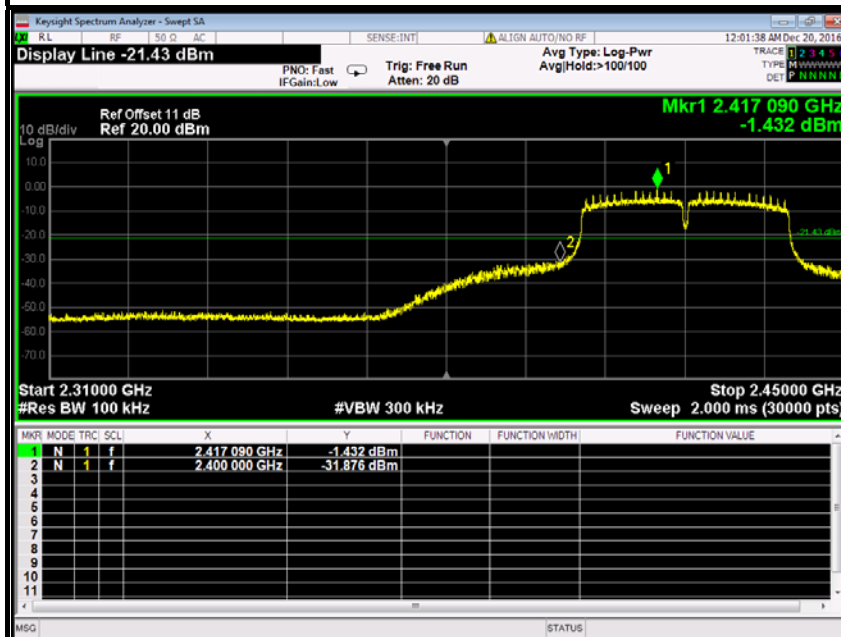


IEEE 802.11n HT40 MHz mode

CH Low (10MHz ~26.5GHz)

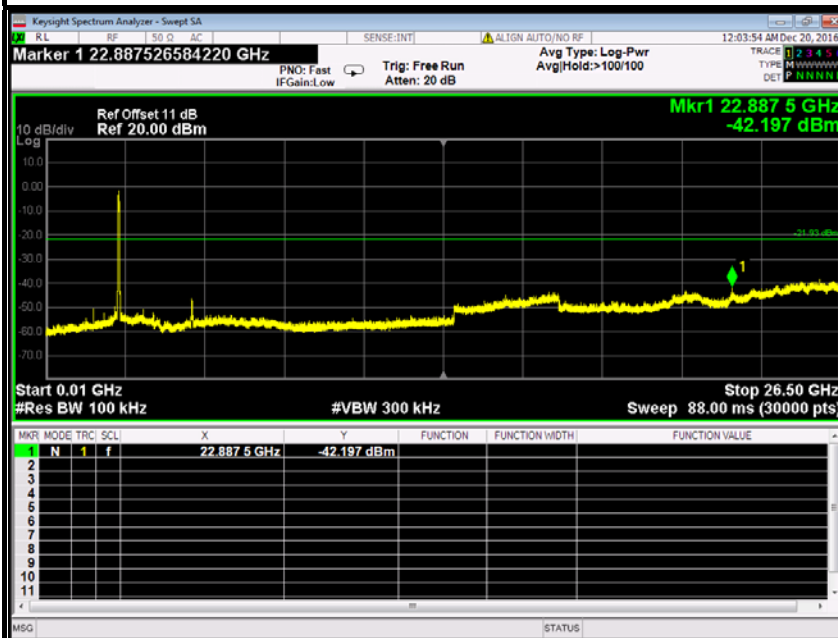


CH Low (2.31GHz ~2.45GHz)

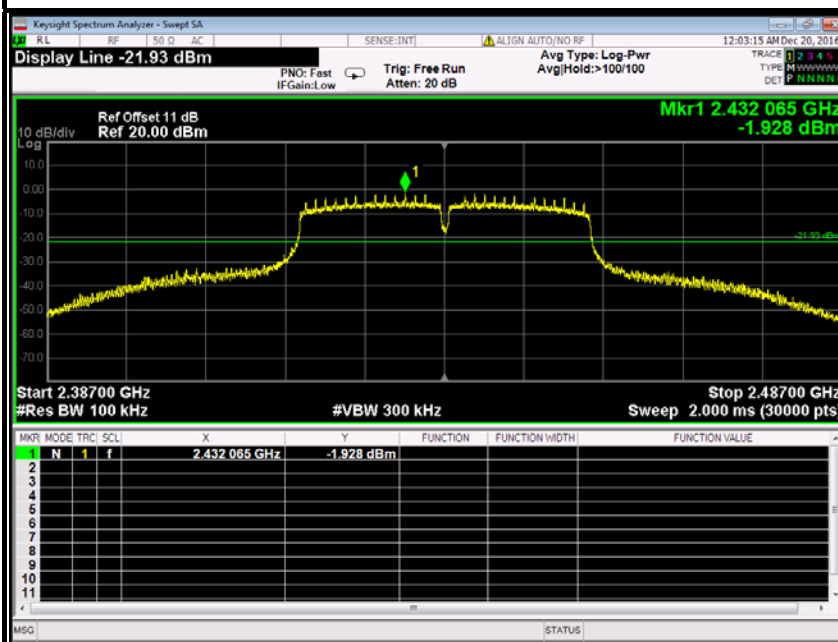




CH Mid (10MHz ~26.5GHz)

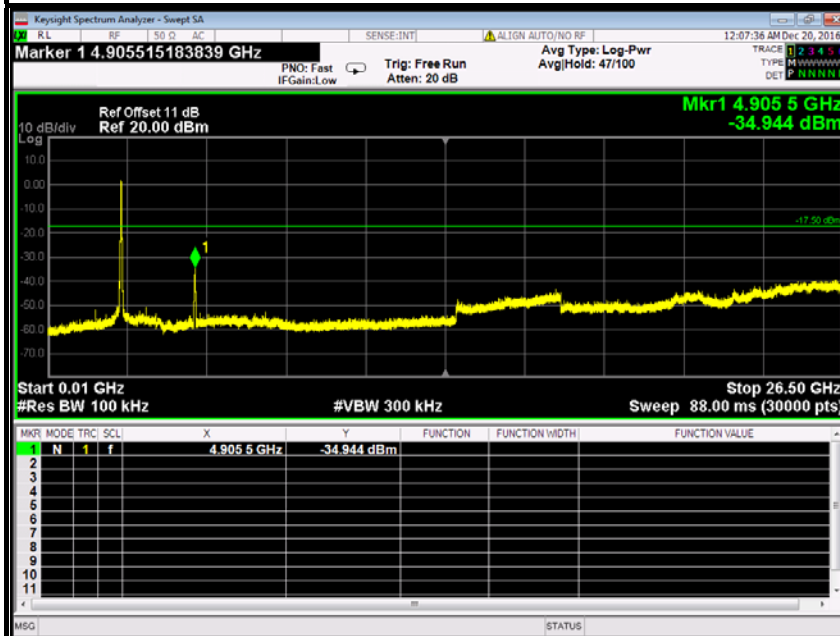


CH Mid (2.387GHz ~2.487GHz)





CH High (10MHz ~26.5GHz)



CH High (2.43GHz ~2.5GHz)



**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:

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 ($\mu\text{V/m}$ at 3-meter)	Field Strength (dB $\mu\text{V/m}$ 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 (dB $\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$).

**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	CT	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-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.



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 / 3MHz for Peak, 1 MHz / 1/B for Average
RB / VB (Emission in non-restricted band)	1MHz / 3MHz for Peak, 1 MHz / 1/B for 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



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°).

--- 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.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) 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.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) 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.

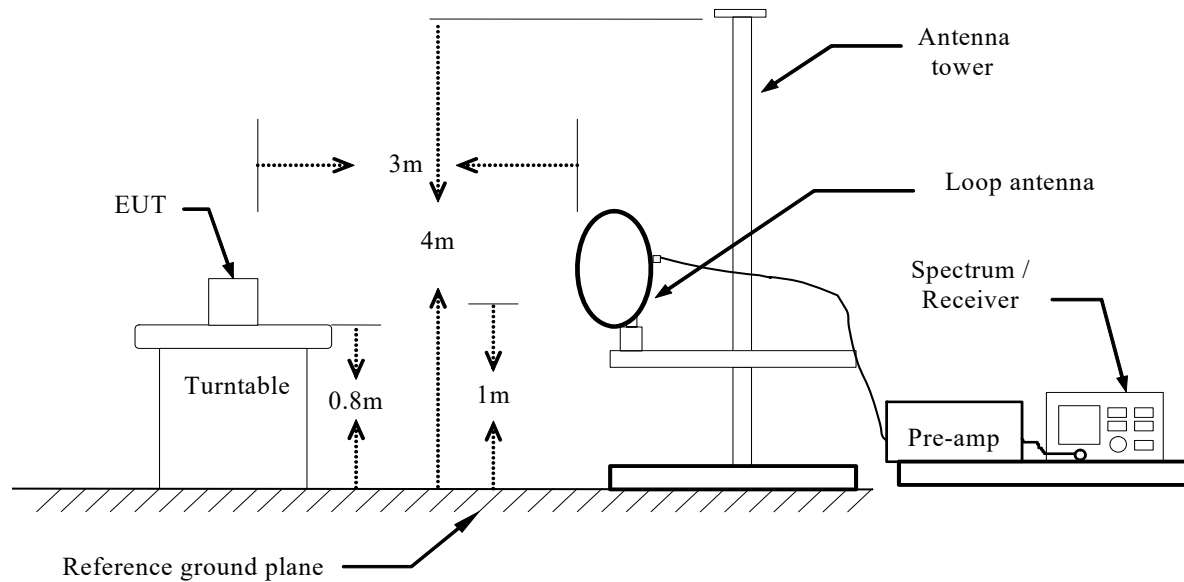
Final measurement:

- 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.

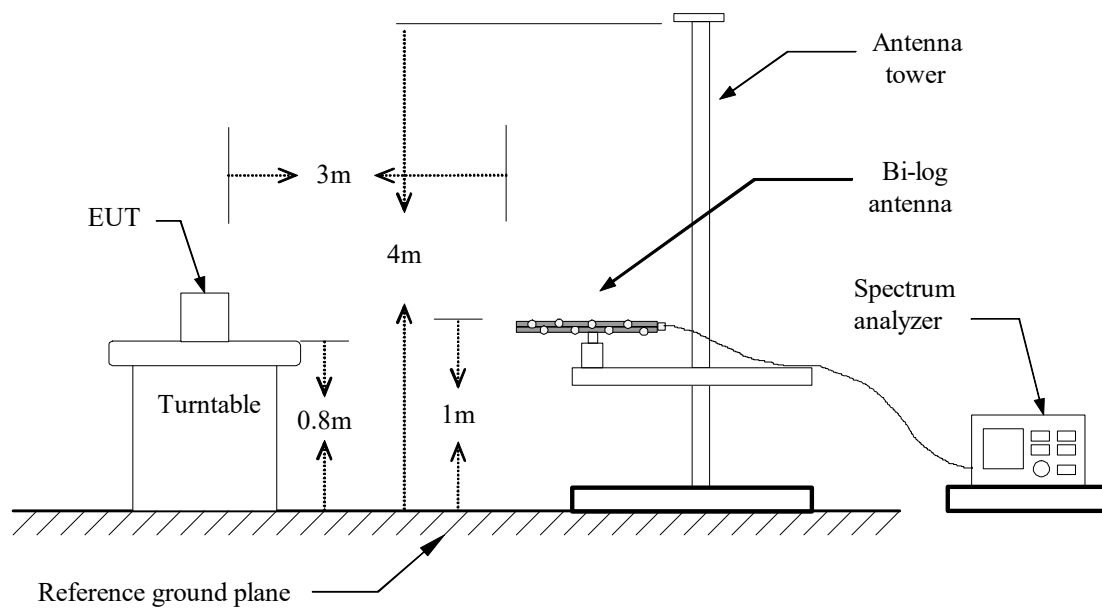


7.2.2.5. TEST SETUP

Below 30MHz

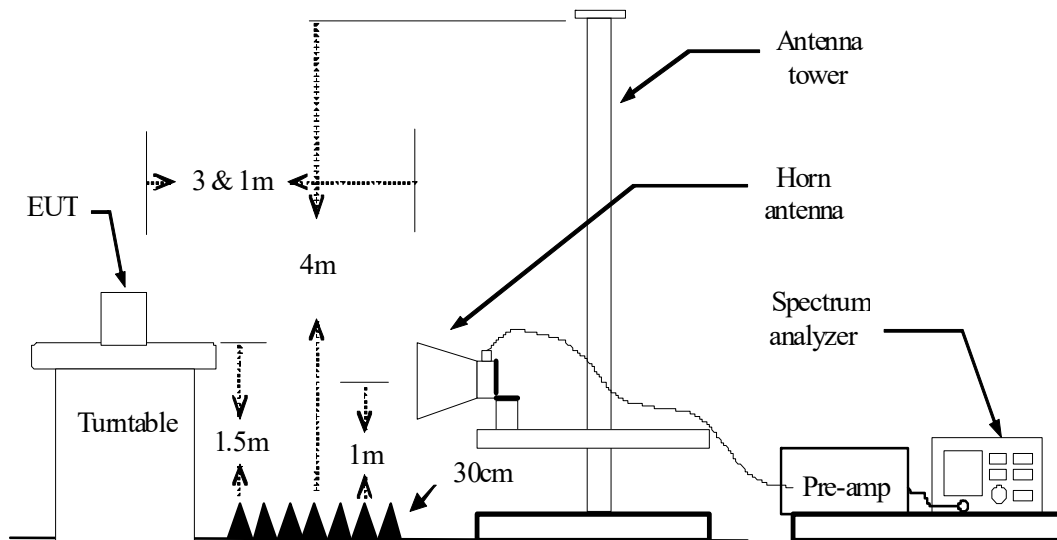


Below 1 GHz





Above 1 GHz



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

**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

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 / IEEE 802.11b(CH Low)**Tested by:** Darry Wu**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
38.7300	40.28	-15.79	24.49	40.00	-15.51	V	QP
103.7200	48.35	-22.99	25.36	43.50	-18.14	V	QP
224.9700	45.80	-21.10	24.70	46.00	-21.30	V	QP
327.7900	45.16	-18.52	26.64	46.00	-19.36	V	QP
803.0900	37.66	-11.01	26.65	46.00	-19.35	V	QP
1000.0000	35.51	-9.36	26.15	54.00	-27.85	V	QP
66.8600	47.69	-25.16	22.53	40.00	-17.47	H	QP
111.4800	45.41	-21.73	23.68	43.50	-19.82	H	QP
253.1000	49.52	-20.72	28.80	46.00	-17.20	H	QP
275.4100	48.55	-20.44	28.11	46.00	-17.89	H	QP
399.5700	41.07	-16.10	24.97	46.00	-21.03	H	QP
803.0900	36.34	-11.01	25.33	46.00	-20.67	H	QP

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

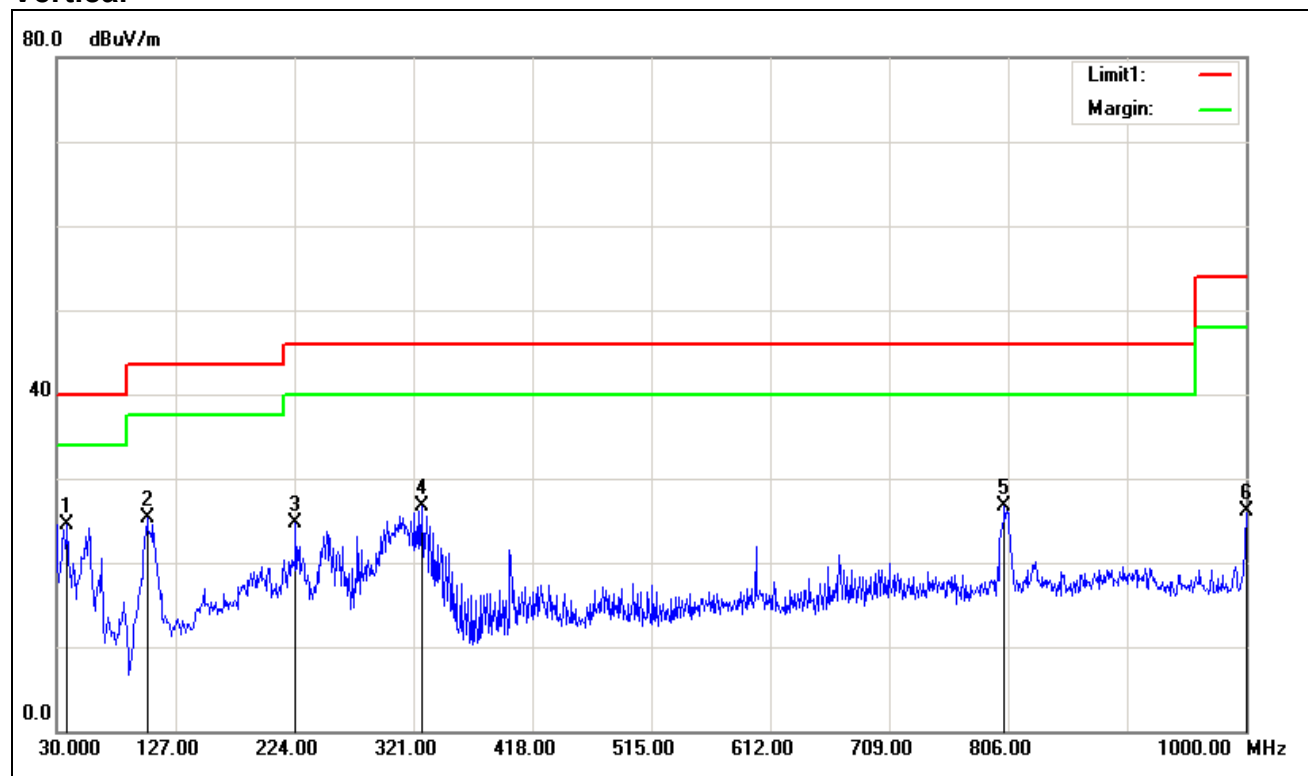
2. Pre-scan all mode and recorded the worst case results in this report (Normal Link + Light on)

Notes:

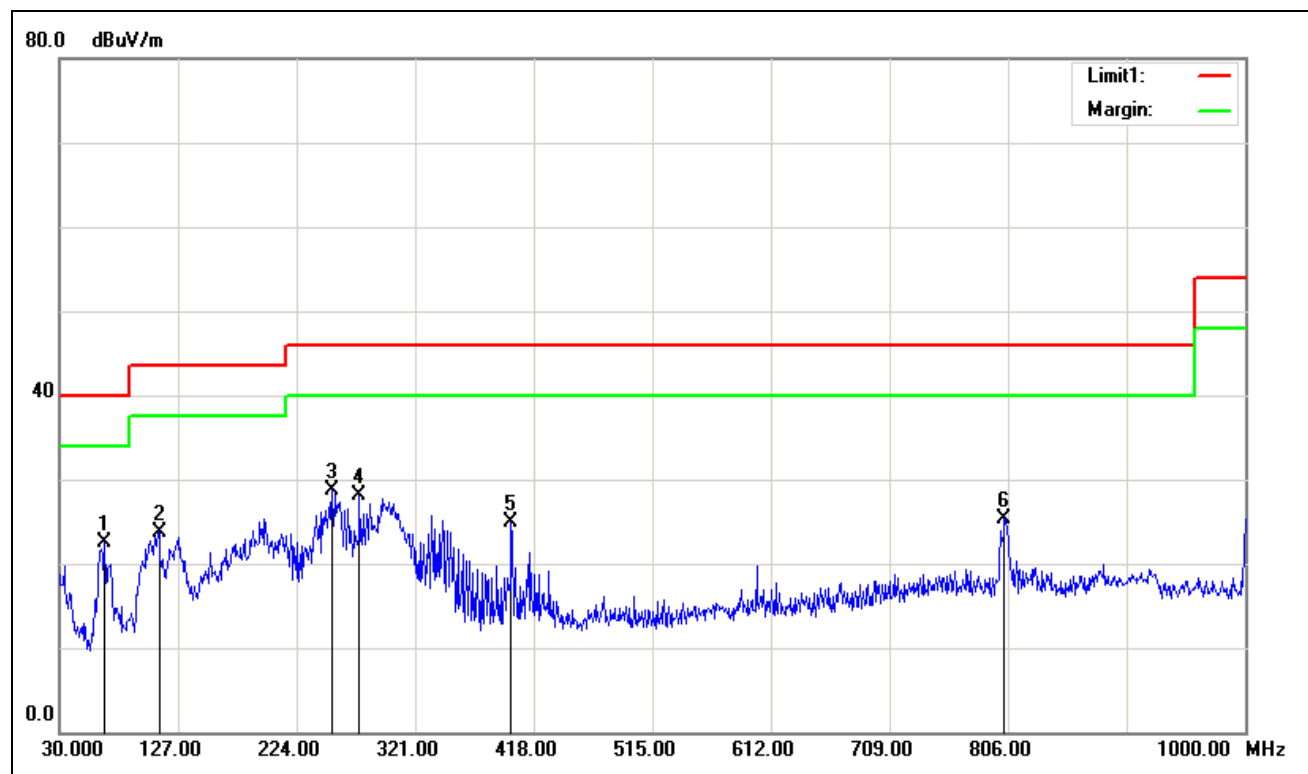
1. Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits 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 (dBuV/m) = Receiver reading
 Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Measured (dBuV/m) – Limits (dBuV/m)
 Antenna Pole (H/V) = Current carrying line of reading



Vertical



Horizontal



**Above 1 GHz****Test Mode:** TX / IEEE 802.11b(CH Low)**Tested by:** Darry Wu**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2143.000	45.45	-4.22	41.23	74.00	-32.77	V	peak
2539.000	45.04	-2.19	42.85	74.00	-31.15	V	peak
4663.000	43.32	3.88	47.20	74.00	-26.80	V	peak
4825.000	57.96	4.41	62.37	74.00	-11.63	V	peak
4825.000	48.09	4.41	52.50	54.00	-1.50	V	AVG
5428.000	41.87	5.74	47.61	74.00	-26.39	V	peak
7453.000	41.74	8.58	50.32	74.00	-23.68	V	peak
2242.000	45.49	-3.67	41.82	74.00	-32.18	H	Peak
2827.000	44.38	-1.67	42.71	74.00	-31.29	H	Peak
3772.000	42.91	0.63	43.54	74.00	-30.46	H	Peak
4402.000	42.30	3.01	45.31	74.00	-28.69	H	peak
4825.000	49.60	4.41	54.01	74.00	-19.99	H	peak
4825.000	45.96	4.41	50.37	54.00	-3.63	H	AVG
7228.000	41.63	8.14	49.77	74.00	-24.23	H	Peak

REMARKS:

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**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1936.000	46.38	-5.41	40.97	74.00	-33.03	V	Peak
2557.000	44.63	-2.16	42.47	74.00	-31.53	V	Peak
3907.000	42.55	1.20	43.75	74.00	-30.25	V	Peak
4870.000	51.92	4.56	56.48	74.00	-17.52	V	Peak
4870.000	47.74	4.56	52.30	54.00	-1.70	V	AVG
5545.000	41.26	5.89	47.15	74.00	-26.85	V	Peak
6382.000	41.15	6.70	47.85	74.00	-26.15	V	Peak
1432.000	47.92	-7.00	40.92	74.00	-33.08	H	Peak
2242.000	46.04	-3.67	42.37	74.00	-31.63	H	Peak
3601.000	43.28	-0.09	43.19	74.00	-30.81	H	Peak
4348.000	42.95	2.81	45.76	74.00	-28.24	H	Peak
4870.000	46.83	4.56	51.39	74.00	-22.61	H	Peak
6517.000	41.39	6.92	48.31	74.00	-25.69	H	Peak

REMARKS:

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)

Tested by: Darry Wu

Ambient temperature: 24°C Relative humidity: 52% RH Date: December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2233.000	45.08	-3.72	41.36	74.00	-32.64	V	Peak
2494.000	45.05	-2.29	42.76	74.00	-31.24	V	Peak
3097.000	43.32	-1.20	42.12	74.00	-31.88	V	Peak
4924.000	54.07	4.73	58.80	74.00	-15.20	V	Peak
4924.000	47.77	4.73	52.50	54.00	-1.50	V	AVG
6220.000	42.59	6.44	49.03	74.00	-24.97	V	Peak
7705.000	41.83	9.07	50.90	74.00	-23.10	V	Peak
2233.000	45.24	-3.72	41.52	74.00	-32.48	H	Peak
3214.000	44.56	-1.00	43.56	74.00	-30.44	H	Peak
4726.000	41.77	4.09	45.86	74.00	-28.14	H	Peak
4924.000	46.37	4.73	51.10	74.00	-22.90	H	Peak
7228.000	41.66	8.14	49.80	74.00	-24.20	H	Peak
7894.000	41.59	9.44	51.03	74.00	-22.97	H	Peak

REMARKS:

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 Low)

Tested by: Darry Wu

Ambient temperature: 24°C Relative humidity: 52% RH Date: December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2242.000	45.23	-3.67	41.56	74.00	-32.44	V	Peak
4141.000	41.96	2.09	44.05	74.00	-29.95	V	Peak
4834.000	52.55	4.44	56.99	74.00	-17.01	V	Peak
4834.000	45.34	4.44	49.78	54.00	-4.22	V	AVG
6436.000	41.58	6.79	48.37	74.00	-25.63	V	Peak
7201.000	41.60	8.09	49.69	74.00	-24.31	V	Peak
7957.000	41.45	9.57	51.02	74.00	-22.98	V	Peak
2089.000	45.53	-4.51	41.02	74.00	-32.98	H	Peak
2800.000	45.74	-1.72	44.02	74.00	-29.98	H	Peak
4195.000	41.88	2.28	44.16	74.00	-29.84	H	Peak
4834.000	54.03	4.44	58.47	74.00	-15.53	H	Peak
4834.000	45.97	4.44	50.41	54.00	-3.59	H	AVG
5689.000	41.75	5.95	47.70	74.00	-26.30	H	Peak
7822.000	41.15	9.30	50.45	74.00	-23.55	H	Peak

REMARKS:

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)

Tested by: Darry Wu

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1900.000	47.97	-5.63	42.34	74.00	-31.66	V	Peak
2242.000	46.04	-3.67	42.37	74.00	-31.63	V	Peak
4870.000	53.69	4.56	58.25	74.00	-15.75	V	Peak
4870.000	44.82	4.56	49.38	54.00	-4.62	V	AVG
7165.000	41.43	8.02	49.45	74.00	-24.55	V	Peak
8092.000	41.96	9.60	51.56	74.00	-22.44	V	Peak
8776.000	41.59	9.22	50.81	74.00	-23.19	V	Peak
1405.000	47.05	-7.05	40.00	74.00	-34.00	H	Peak
2242.000	46.18	-3.67	42.51	74.00	-31.49	H	Peak
4870.000	51.36	4.56	55.92	74.00	-18.08	H	Peak
4870.000	43.13	4.56	47.69	54.00	-6.31	H	AVG
5644.000	41.47	5.93	47.40	74.00	-26.60	H	Peak
7642.000	41.86	8.95	50.81	74.00	-23.19	H	Peak
8407.000	41.83	9.43	51.26	74.00	-22.74	H	Peak

REMARKS:

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)

Tested by: Darry Wu

Ambient temperature: 24°C Relative humidity: 52% RH Date: December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1396.000	47.50	-7.07	40.43	74.00	-33.57	V	Peak
4294.000	42.36	2.62	44.98	74.00	-29.02	V	Peak
4924.000	53.66	4.73	58.39	74.00	-15.61	V	Peak
4924.000	42.76	4.73	47.49	54.00	-6.51	V	AVG
6319.000	42.02	6.60	48.62	74.00	-25.38	V	Peak
7786.000	41.21	9.23	50.44	74.00	-23.56	V	Peak
8218.000	42.04	9.53	51.57	74.00	-22.43	V	Peak
2143.000	45.88	-4.22	41.66	74.00	-32.34	H	Peak
2818.000	44.51	-1.69	42.82	74.00	-31.18	H	Peak
4411.000	43.38	3.04	46.42	74.00	-27.58	H	Peak
4933.000	54.73	4.76	59.49	74.00	-14.51	H	Peak
4933.000	42.53	4.76	47.29	54.00	-6.71	H	AVG
6364.000	42.53	6.67	49.20	74.00	-24.80	H	Peak
7390.000	42.62	8.46	51.08	74.00	-22.92	H	Peak

REMARKS:

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 Low)Tested by: Darry WuAmbient temperature: 24°CRelative humidity: 52% RHDate: December 14, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2512.000	45.55	-2.24	43.31	74.00	-30.69	V	Peak
4825.000	53.15	4.41	57.56	74.00	-16.44	V	Peak
4825.000	43.10	4.41	47.51	54.00	-6.49	V	AVG
5509.000	40.78	5.87	46.65	74.00	-27.35	V	Peak
6679.000	40.97	7.18	48.15	74.00	-25.85	V	Peak
7021.000	39.92	7.74	47.66	74.00	-26.34	V	Peak
8128.000	40.65	9.58	50.23	74.00	-23.77	V	Peak
2512.000	45.55	-2.24	43.31	74.00	-30.69	H	Peak
4825.000	53.15	4.41	57.56	74.00	-16.44	H	Peak
4825.000	43.10	4.41	47.51	54.00	-6.49	H	AVG
5509.000	40.78	5.87	46.65	74.00	-27.35	H	Peak
6679.000	40.97	7.18	48.15	74.00	-25.85	H	Peak
7021.000	39.92	7.74	47.66	74.00	-26.34	H	Peak
8128.000	40.65	9.58	50.23	74.00	-23.77	H	Peak

REMARKS:

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).