

FCC 47 CFR PART 15 SUBPART C

RF Test Report

Applicant : TP-LINK TECHNOLOGIES CO., LTD.
Product Type : AC1750 Wireless Dual Band Gigabit Router
Trade Name : TP-LINK
Model Number : Archer C7
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Receive Date : Jun. 22, 2016
Test Period : Jul. 04 ~ Oct. 13, 2016
Issue Date : Oct. 30, 2016

Issue by

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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Jul. 27, 2016	Initial Issue	Snow Wang
01	Aug. 19, 2016	Revised report information.	Snow Wang
02	Oct. 30, 2016	Revised report information.	Joyce Liao

Verification of Compliance

Issued Date: Oct. 30, 2016

Applicant : TP-LINK TECHNOLOGIES CO., LTD.
Product Type : AC1750 Wireless Dual Band Gigabit Router
Trade Name : TP-LINK
Model Number : Archer C7
FCC ID : TE7C7V4
EUT Rated Voltage : DC 12V, 2A
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Test Result : Complied
Performing Lab. : A Test Lab Techno Corp.

No. 140-1, Changan Street, Bade District,
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Taiwan Accreditation Foundation accreditation number: 1330

<http://www.atl-lab.com.tw/e-index.htm>

A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

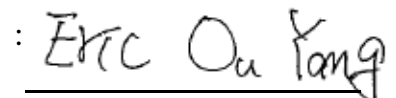
Approved By



(Manager)

(Fly Lu)

Reviewed By



(Testing Engineer)

(Eric Ou Yang)



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1 General Information

1.1 Summary of Test Result

Standard	Item	Result	Remark
15.247			
15.207	AC Power Conducted Emission	PASS	----
Standard	Item	Result	Remark
15.247			
15.247(d) 15.209	Transmitter Radiated Emissions	PASS	----
15.247(b)(3)	Max. Output Power	PASS	----
15.247(a)(2)	6dB RF Bandwidth	PASS	----
15.247(e)	Power Spectral Density	PASS	----
15.247(d)	Out of Band Conducted Spurious Emission	PASS	----
15.203	Antenna Requirement	PASS	----

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	9kHz ~ 150KHz	2.7
	150kHz ~ 30MHz	2.8
Radiated Emission	9kHz ~ 30MHz	1.457
	30MHz ~ 1000MHz	6.300
	1000MHz ~ 18000MHz	5.474
	18000MHz ~ 26500MHz	5.630
	26500MHz ~ 40000MHz	5.054
Conducted Output Power	+0.27 dB / -0.28 dB	
RF Bandwidth	4.96%	
Power Spectral Density	+0.71 dB / -0.77 dB	



2 EUT Description

Applicant	TP-LINK TECHNOLOGIES CO., LTD. Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China			
Manufacturer	TP-LINK TECHNOLOGIES CO., LTD. Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China			
Product Type	AC1750 Wireless Dual Band Gigabit Router			
Trade Name	TP-LINK			
Model Number	Archer C7			
FCC ID	TE7C7V4			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate 400 GI (ns)
IEEE 802.11b	2412 ~ 2462	DSSS	20MHz	Up to 11Mbps
IEEE 802.11g	2412 ~ 2462	OFDM (64QAM)	20MHz	Up to 54Mbps
IEEE 802.11n 2.4GHz 20MHz	2412 ~ 2462	OFDM (64QAM)	20MHz	Up to 216.6Mbps
IEEE 802.11n 2.4GHz 40MHz	2422 ~ 2452	OFDM (64QAM)	40MHz	Up to 450Mbps
Antenna information	Type		Max. Gain (dBi)	
	Dipole Antenna		3	
Antenna Delivery	See section 3.1			

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.461
IEEE 802.11g	0.249
IEEE 802.11n 2.4GHz 20MHz	0.238
IEEE 802.11n 2.4GHz 40MHz	0.068

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal operation mode
Mode 2: IEEE 802.11b link mode
Mode 3: IEEE 802.11g link mode
Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode
Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

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

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Test Mode	ANT-0	ANT-1	ANT-2	ANT-0+1+2
Mode 2: IEEE 802.11b link mode	V	V	V	V
Mode 3: IEEE 802.11g link mode	V	V	V	V
Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode	V	V	V	V
Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode	V	V	V	V

Test Mode	Antenna Delivery	Test Channel	Data Rate 400G1 (ns)
Mode 2: IEEE 802.11b link mode	3TX / 3RX (CDD)	1, 6, 11	1
Mode 3: IEEE 802.11g link mode	3TX / 3RX (CDD)	1, 6, 11	6
Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode	3TX / 3RX (CDD)	1, 6, 11	19.5
Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode	3TX / 3RX (CDD)	3, 6, 9	40.5

Duty cycle

Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2: IEEE 802.11b link mode	2412.0	12.230	12.240	0.999	0.004	0.010
Mode 3: IEEE 802.11g link mode	2412.0	2.040	2.080	0.981	0.084	0.010
Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode	2412.0	1.900	1.940	0.979	0.090	0.526
Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode	2422.0	0.939	0.969	0.969	0.137	1.065



Duty Cycle Graphs

Mode 2: IEEE 802.11b link mode

On time



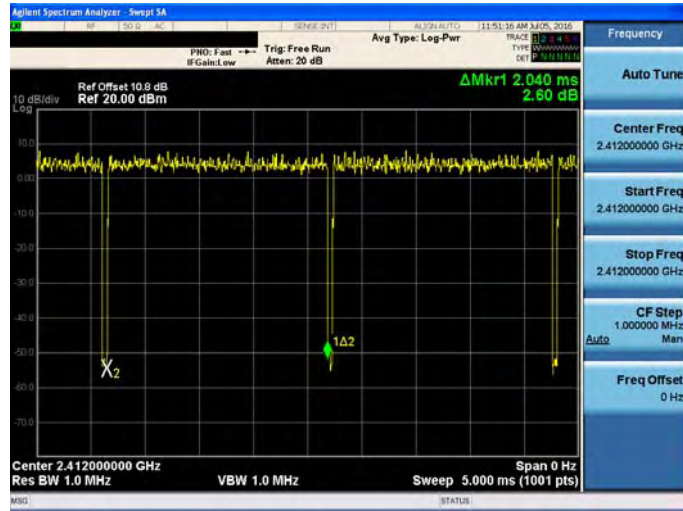
On+off time



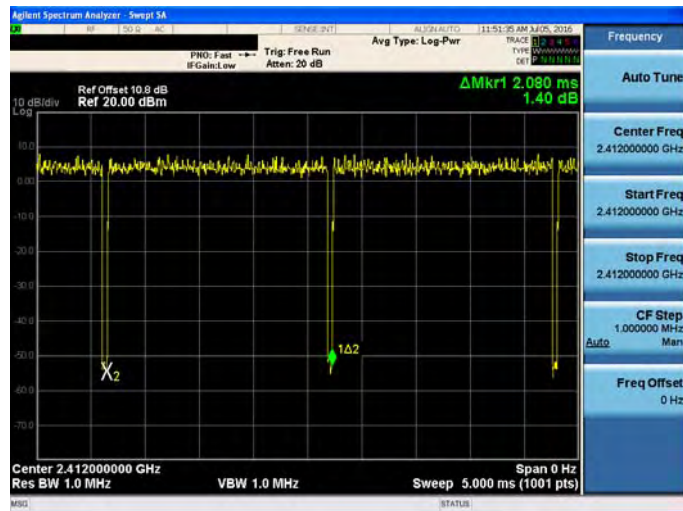


Mode 3: IEEE 802.11g Mode

On time



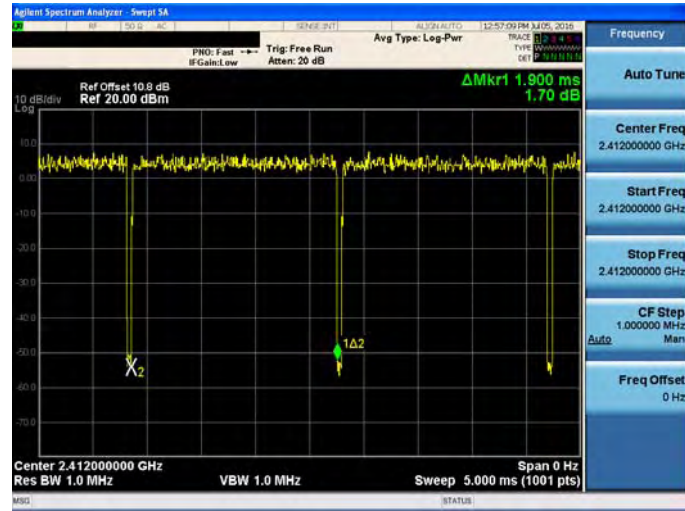
On+off time



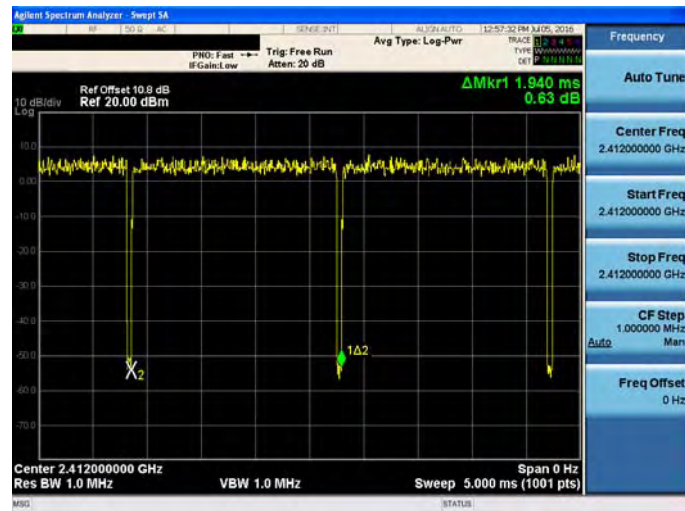


Mode 4: IEEE 802.11n 2.4GHz 20MHz Mode

On time



On+off time



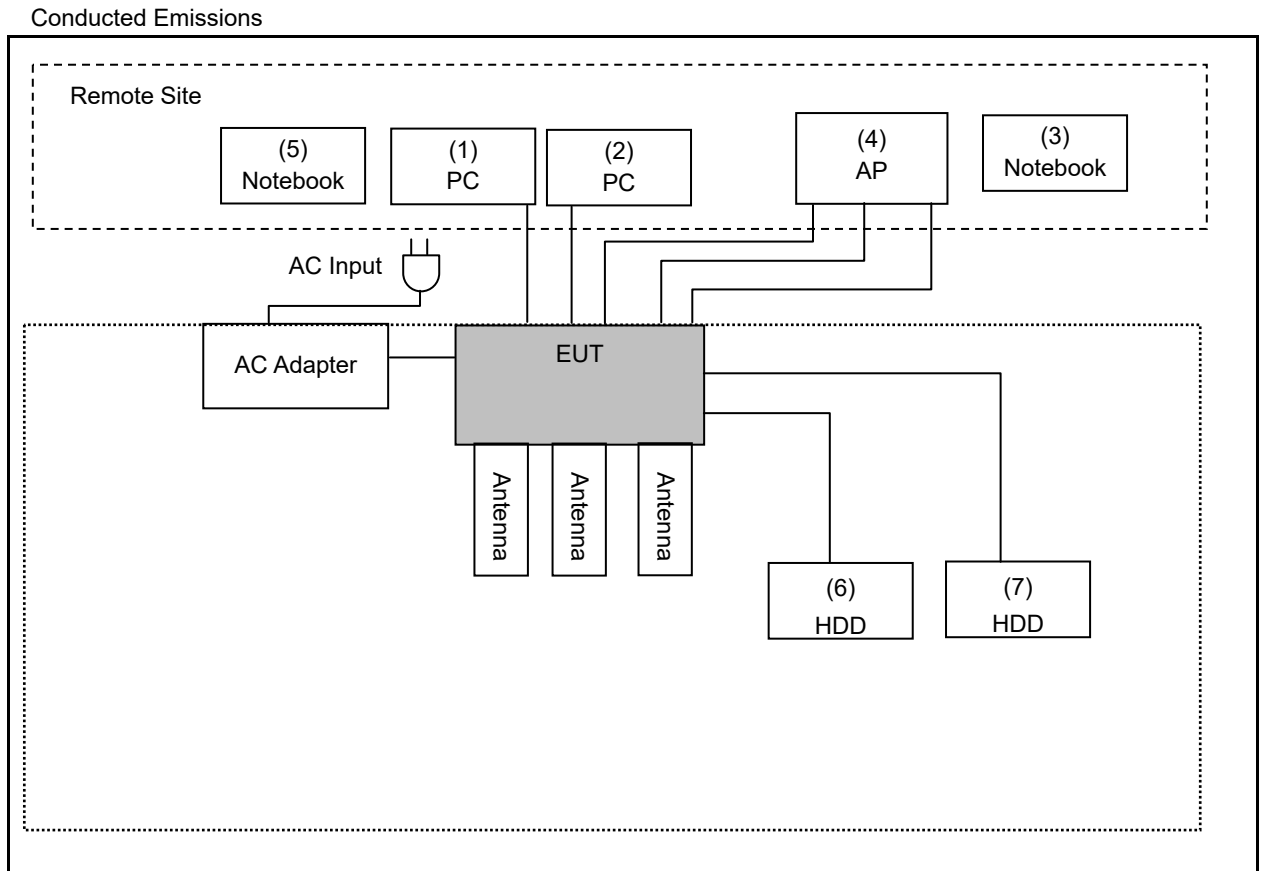
Mode 5: IEEE 802.11n 2.4GHz 40MHz Mode	
On time	
On+off time	

3.2. EUT Exercise Software

1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	Turn Wi-Fi function link to AP
4.	EUT run test program.

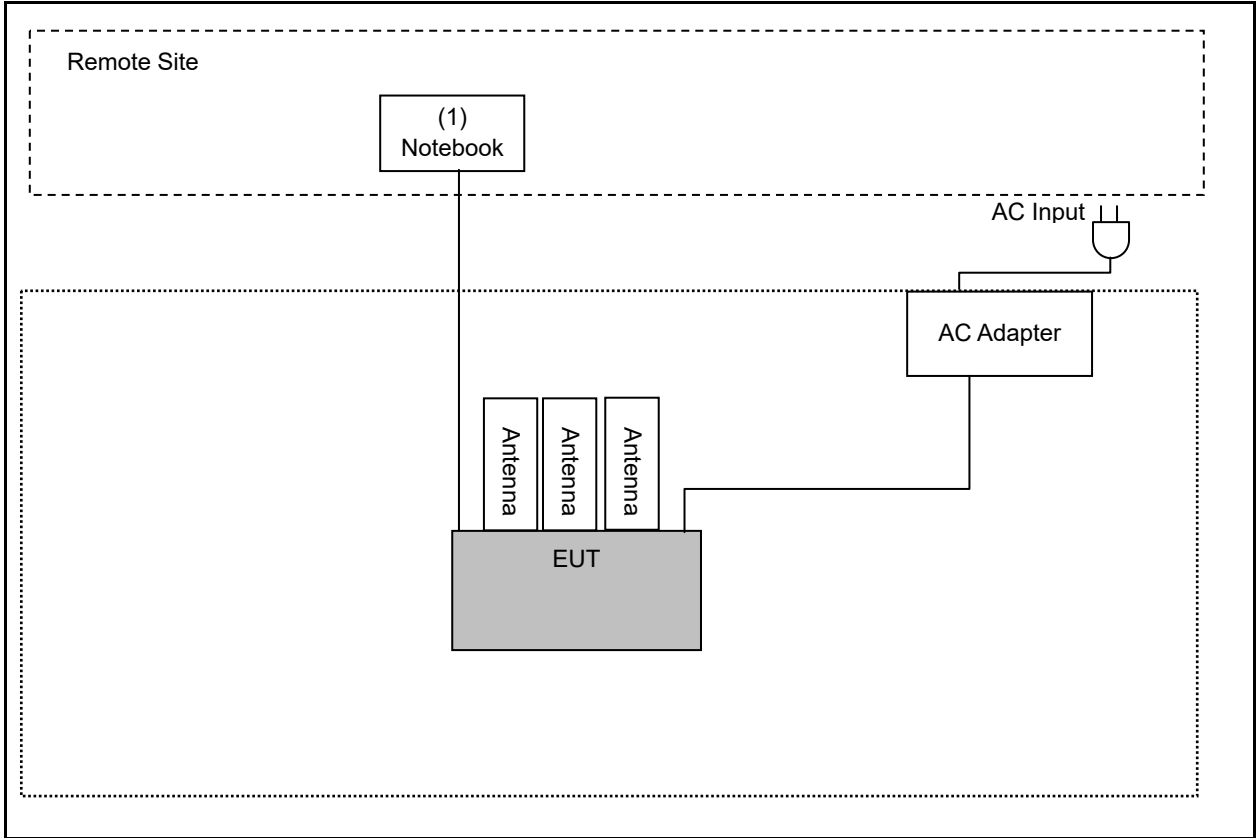
Measurement Software	
1	EZ-EMC Ver. ATL-03A1-1
2	EZ-EMC Ver ATL-ITC-3A1-1

3.3. Configuration of Test System Details



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	PC	DELL	T3610	F5XBW02	Non-Shielded, 1.8m
(2)	PC	DELL	9020	HJMBW02	Non-Shielded, 1.8m
(3)	Notebook	DELL	LAPTITU	25627158361	Non-Shielded, 1.8m
(4)	AP	ASUS	MSQ-RTAC66U	D1IAGG000126	Non-Shielded, 1.8m
(5)	Notebook	DELL	LAPTITU	6699565657	Non-Shielded, 1.8m
(6)	HDD	WD	My Passport	WX71A8241990	Power by EUT
(7)	HDD	WD	My Passport	WXN1E32LVECU	Power by EUT

Radiated Emissions



Devices Description				
Product	Manufacturer	Model Number	Serial Number	Power Cord
(1) Notebook	DELL	LAPTITU	6699565657	Non-Shielded, 0.8m

3.4. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 AC Power Line Conducted Emission Measurement

4.1. Limit

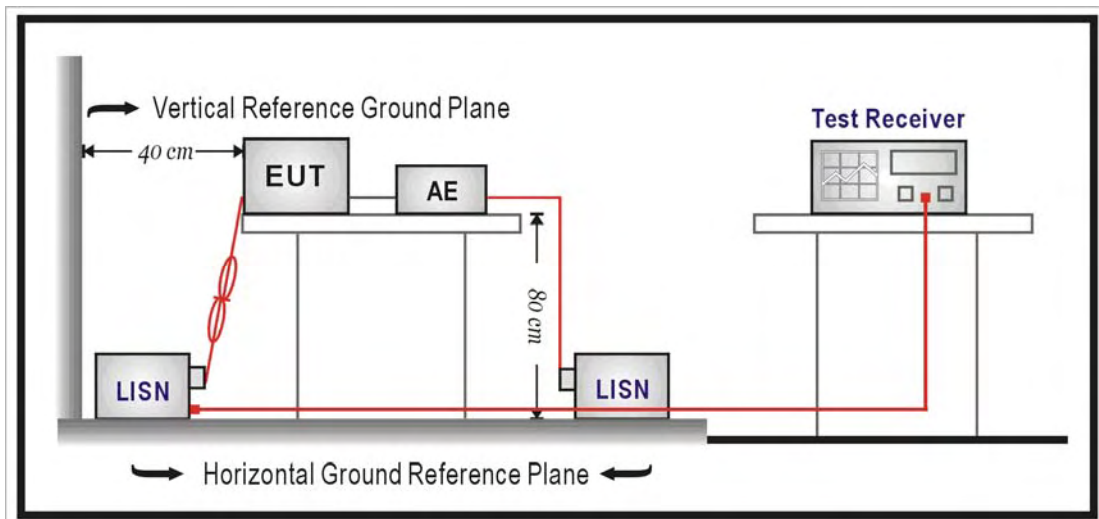
Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

4.2. Test Instruments

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/31/2016	1 year
LISN	R&S	ENV216	101040	03/15/2016	1 year
LISN	R&S	ENV216	101041	03/07/2016	1 year
RF Cable	Woken	00100D1380194M	TE-02-02	05/31/2016	1 year
Test Site	ATL	TE02	TE02	N.C.R.	----

Note: N.C.R. = No Calibration Request.

4.3. Test Setup



4.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50\Omega // 50\mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\Omega // 50\mu\text{H}$ coupling impedance with 50ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150kHz to 30MHz then quasi-peak and average measurement was unnecessary.

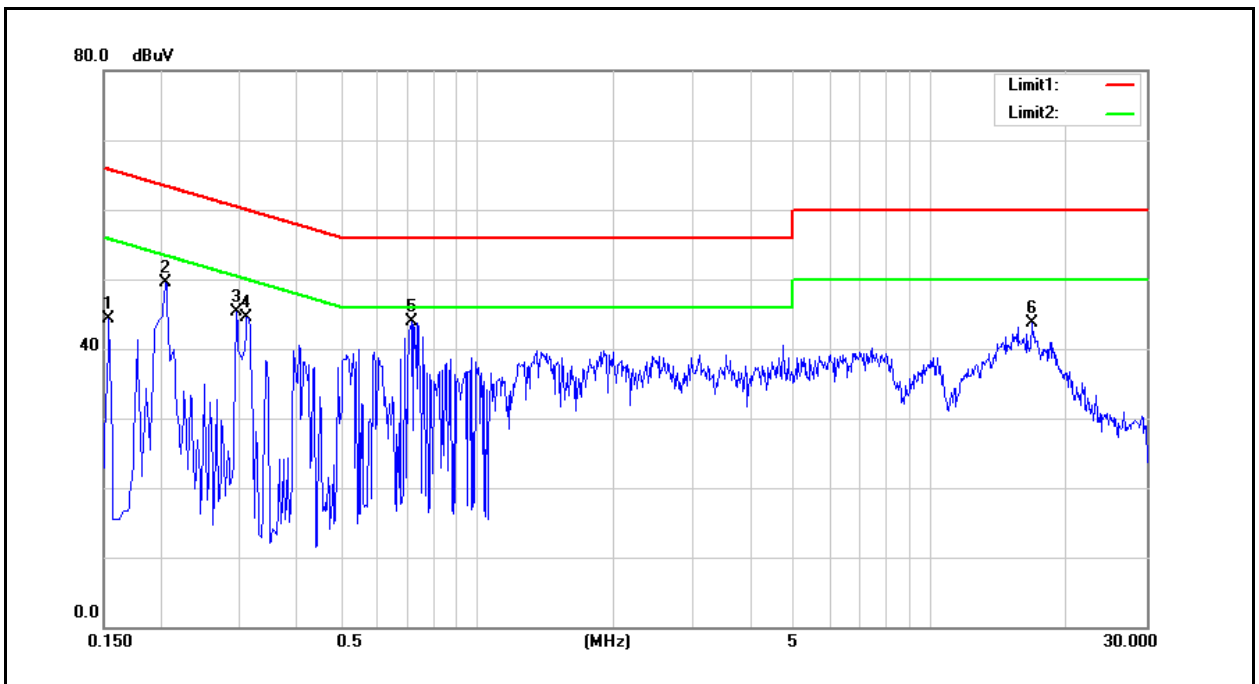
The AMN shall be placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0,8 m from the AMN. If the mains power cable is longer than 1m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4m. All of interconnecting cables that hang closer than 40cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.



4.5. Test Result

Standard:	FCC Part 15C	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	07/19/2016
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	28.69	4.42	9.60	38.29	14.02	65.78	55.78	-27.49	-41.76	Pass
2	0.2060	39.85	28.95	9.59	49.44	38.54	63.37	53.37	-13.93	-14.83	Pass
3	0.2940	30.49	15.53	9.60	40.09	25.13	60.41	50.41	-20.32	-25.28	Pass
4	0.3100	31.64	21.32	9.60	41.24	30.92	59.97	49.97	-18.73	-19.05	Pass
5	0.7180	32.90	22.65	9.63	42.53	32.28	56.00	46.00	-13.47	-13.72	Pass
6	16.7660	26.51	21.88	9.94	36.45	31.82	60.00	50.00	-23.55	-18.18	Pass

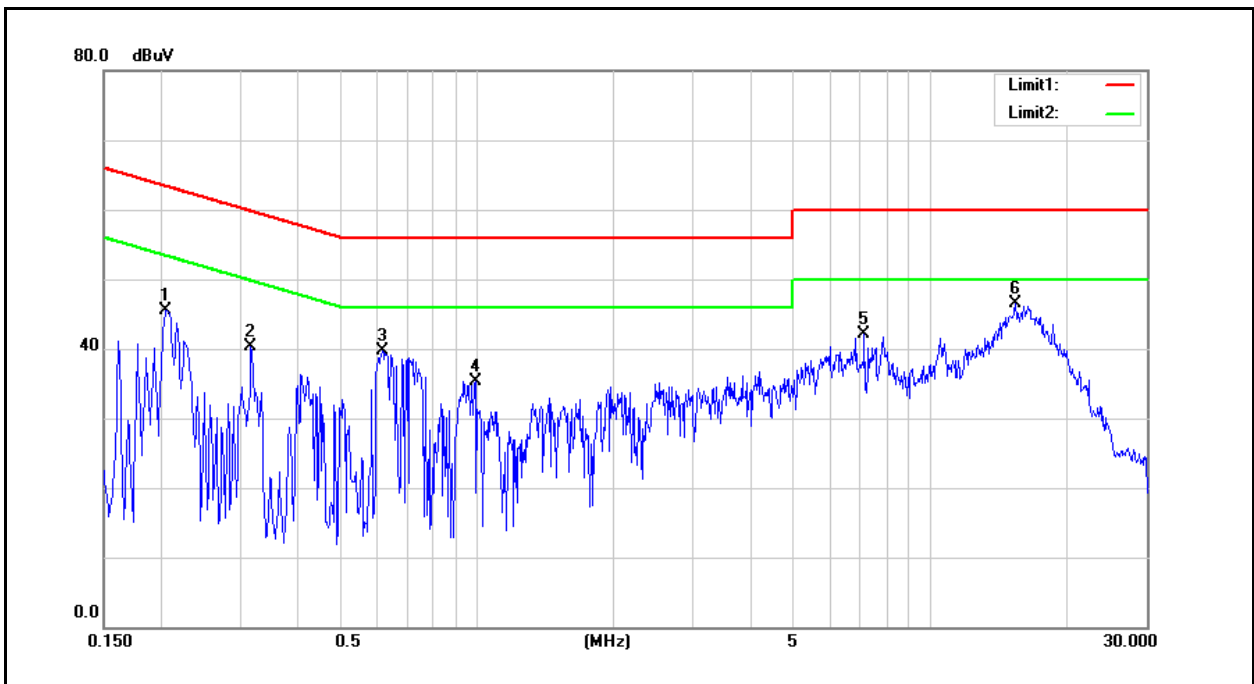
Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).



Standard:	FCC Part 15C	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	07/19/2016
		Test By:	Eric Ou Yang

Description:



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2060	35.00	24.38	9.58	44.58	33.96	63.37	53.37	-18.79	-19.41	Pass
2	0.3180	22.17	15.36	9.59	31.76	24.95	59.76	49.76	-28.00	-24.81	Pass
3	0.6180	28.73	19.36	9.60	38.33	28.96	56.00	46.00	-17.67	-17.04	Pass
4	0.9940	22.25	6.29	9.63	31.88	15.92	56.00	46.00	-24.12	-30.08	Pass
5	7.1380	25.69	16.92	9.84	35.53	26.76	60.00	50.00	-24.47	-23.24	Pass
6	15.4140	30.92	24.33	10.02	40.94	34.35	60.00	50.00	-19.06	-15.65	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).



5 Radiated Emission Measurement

5.1. Limit

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 ($\mu\text{V/m}$ at meter)	Measurement Distance (meters)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** 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.

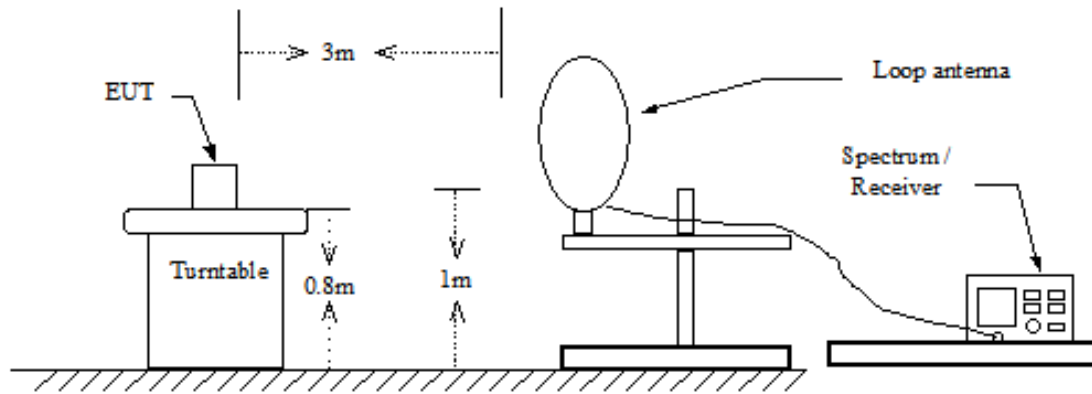
5.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
RF Pre-selector	Agilent	N9039A	MY46520256	01/08/2016	1 year
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/08/2016	1 year
Pre Amplifier	Agilent	8449B	3008A02237	10/07/2015	1 year
				10/11/2016	1 year
Pre Amplifier	Agilent	8447D	2944A11119	01/11/2016	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	416	09/25/2015	1 year
				10/13/2016	1 year
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	9120D	9120D-550	06/06/2016	1 year
Horn Antenna (18~40GHz)	ETS	3116	86467	09/01/2015	1 year
				09/05/2016	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	02/01/2016	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	10/15/2015	1 year
Microwave Cable	EMCI	EMC-104-SM-SM-14000	140202	10/15/2015	1 year
Microwave Cable	EMCI	EMC104-SM-SM-600	140301	10/15/2015	1 year
Test Site	ATL	TE01	888001	08/27/2015	1 year
				08/29/2016	1 year

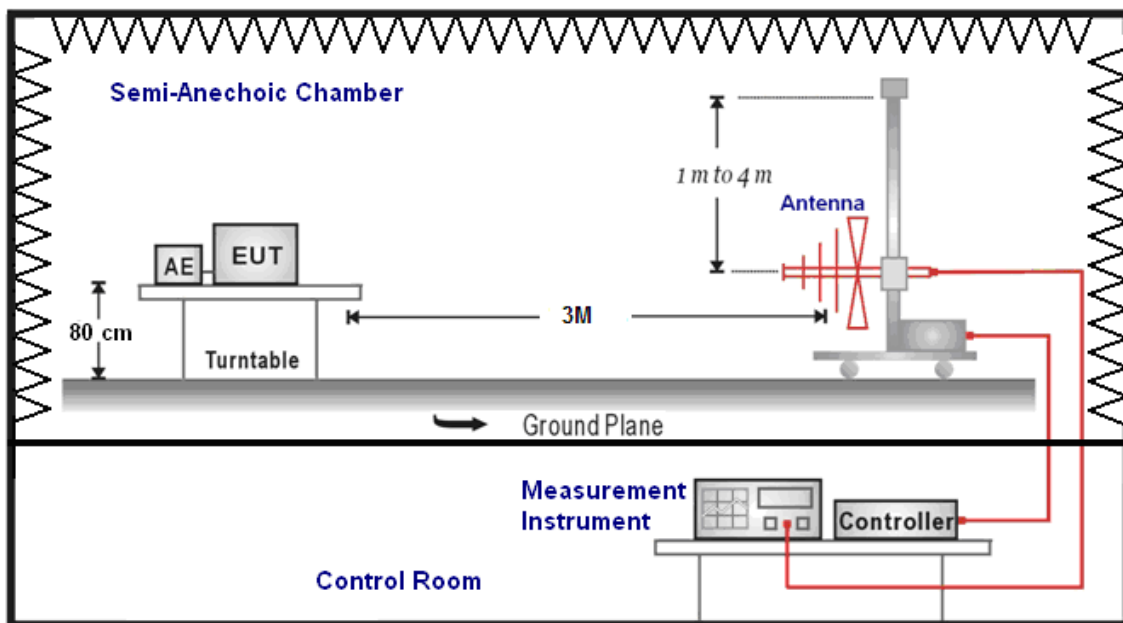
Note: N.C.R. = No Calibration Request

5.3. Setup

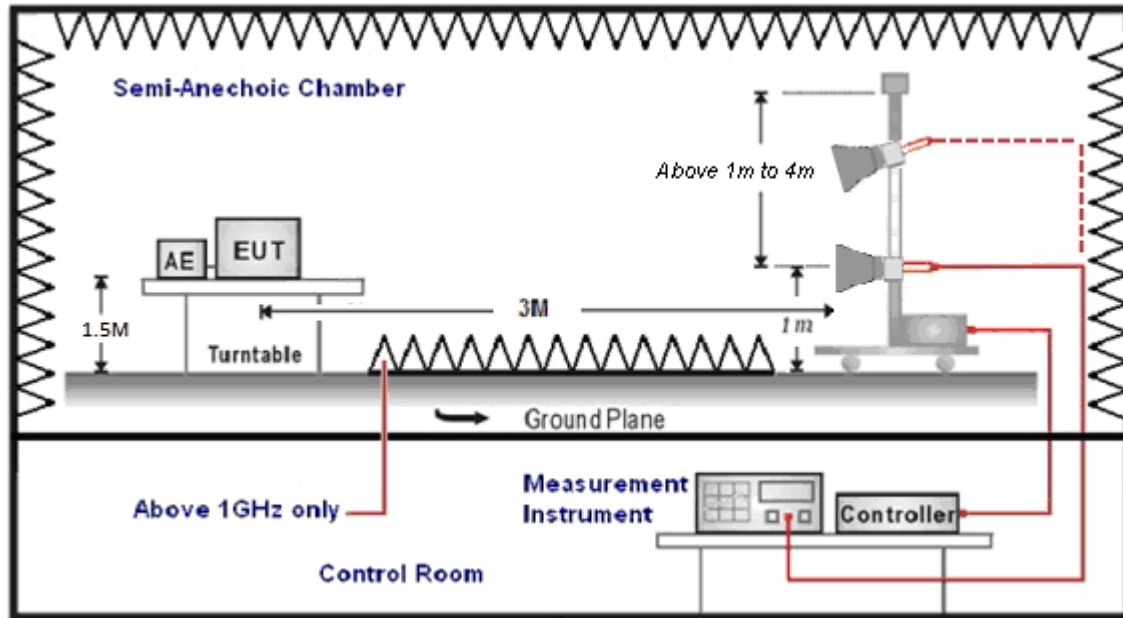
9kHz ~ 30MHz



Below 1GHz



Above 1GHz



5.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height (below 1GHz use 0.8m turntable / above 1GHz use 1.5m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements when Duty cycle >0.98 / $1/T$ for average measurements when Duty cycle <0.98 . A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.



SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna was used in frequencies 1 –26.5 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Data of measurement within this frequency range without mark 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.



5.5. Test Result

Below 1GHz

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	07/06/2016
		Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
231.5000	32.94	-6.99	25.95	46.00	-20.05	QP	H
325.0000	27.03	-3.02	24.01	46.00	-21.99	QP	H
484.0000	26.31	0.44	26.75	46.00	-19.25	QP	H
627.5000	25.19	3.46	28.65	46.00	-17.35	QP	H
741.0000	25.24	5.78	31.02	46.00	-14.98	QP	H
883.5000	24.74	8.26	33.00	46.00	-13.00	QP	H
231.5000	33.10	-6.99	26.11	46.00	-19.89	QP	V
375.0000	26.59	-2.18	24.41	46.00	-21.59	QP	V
517.5000	26.18	0.99	27.17	46.00	-18.83	QP	V
628.0000	26.03	3.47	29.50	46.00	-16.50	QP	V
755.5000	25.76	6.10	31.86	46.00	-14.14	QP	V
918.0000	24.26	8.98	33.24	46.00	-12.76	QP	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.No emission found between lowest internal used/generated frequencies to 30MHz (9 kHz~30MHz).



Above 1GHz

Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 2	Date:	07/05/2016				
Frequency:	2412MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4824.000	48.38	-7.86	40.52	74.00	-33.48	peak	H
4824.000	54.37	-7.86	46.51	74.00	-27.49	peak	V

Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 2	Date:	07/05/2016				
Frequency:	2437MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4874.000	57.03	-7.70	49.33	74.00	-24.67	peak	H
4874.000	63.58	-7.70	55.88	74.00	-18.12	peak	V
4874.000	61.51	-7.70	53.81	54.00	-0.19	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 2	Date:	07/05/2016				
Frequency:	2462MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4924.000	48.43	-7.55	40.88	74.00	-33.12	peak	H
4924.000	52.82	-7.55	45.27	74.00	-28.73	peak	V

Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 3	Date:	07/05/2016				
Frequency:	2412MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4824.000	47.37	-7.86	39.51	74.00	-34.49	peak	H
4824.000	49.19	-7.86	41.33	74.00	-32.67	peak	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 3	Date:	07/05/2016				
Frequency:	2437MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4874.000	48.54	-7.70	40.84	74.00	-33.16	peak	H
4874.000	54.70	-7.70	47.00	74.00	-27.00	peak	V

Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 3	Date:	07/05/2016				
Frequency:	2462MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4924.000	47.44	-7.55	39.89	74.00	-34.11	peak	H
4924.000	48.28	-7.55	40.73	74.00	-33.27	peak	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 4	Date:	07/05/2016				
Frequency:	2412MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4824.000	47.90	-7.86	40.04	74.00	-33.96	peak	H
4824.000	48.28	-7.86	40.42	74.00	-33.58	peak	V

Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 4	Date:	07/05/2016				
Frequency:	2437MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4874.000	49.17	-7.70	41.47	74.00	-32.53	peak	H
4874.000	53.49	-7.70	45.79	74.00	-28.21	peak	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 4			Date:	07/05/2016		
Frequency:	2462MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4924.000	48.31	-7.55	40.76	74.00	-33.24	peak	H
4924.000	47.37	-7.55	39.82	74.00	-34.18	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 5			Date:	07/05/2016		
Frequency:	2422MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4844.000	48.22	-7.78	40.44	74.00	-33.56	peak	H
4844.000	48.69	-7.78	40.91	74.00	-33.09	peak	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 5			Date:	07/05/2016		
Frequency:	2437MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4874.000	49.60	-7.70	41.90	74.00	-32.10	peak	H
4874.000	48.56	-7.70	40.86	74.00	-33.14	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 5			Date:	07/05/2016		
Frequency:	2452MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4904.000	48.36	-7.60	40.76	74.00	-33.24	peak	H
4904.000	46.94	-7.60	39.34	74.00	-34.66	peak	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		Archer C7		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Simultaneous Transmitting (DTS+NII)		Date:		07/06/2016	
				Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2802.000	52.38	-13.47	38.91	74.00	-35.09	peak	H
4281.000	47.70	-9.32	38.38	74.00	-35.62	peak	H
7545.000	47.01	0.23	47.24	74.00	-26.76	peak	H
2802.000	51.82	-13.47	38.35	74.00	-35.65	peak	V
4281.000	48.06	-9.32	38.74	74.00	-35.26	peak	V
7562.000	46.94	0.26	47.20	74.00	-26.80	peak	V



Band Edge

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 2			Date:	07/04/2016		
Frequency:	2412 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2346.300	56.18	-0.39	55.79	74.00	-18.21	peak	H
2346.300	44.75	-0.39	44.36	54.00	-9.64	AVG	H
2390.000	49.72	-0.22	49.50	74.00	-24.50	peak	H
2350.370	70.00	-0.37	69.63	74.00	-4.37	peak	V
2350.370	47.70	-0.37	47.33	54.00	-6.67	AVG	V
2390.000	62.20	-0.22	61.98	74.00	-12.02	peak	V
2390.000	53.99	-0.22	53.77	54.00	-0.23	AVG	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 2			Date:	09/30/2016		
Frequency:	2417 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2389.310	57.65	-0.34	57.31	74.00	-16.69	peak	H
2389.310	45.63	-0.34	45.29	54.00	-8.71	AVG	H
2390.000	54.01	-0.34	53.67	74.00	-20.33	peak	H
2390.000	45.72	-0.34	45.38	54.00	-8.62	AVG	H
2315.720	65.00	-0.64	64.36	74.00	-9.64	peak	V
2315.720	44.40	-0.64	43.76	54.00	-10.24	AVG	V
2390.000	66.77	-0.34	66.43	74.00	-7.57	peak	V
2390.000	53.87	-0.34	53.53	54.00	-0.47	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	10/13/2016
Frequency:	2422 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2388.480	57.83	-1.88	55.95	74.00	-18.05	peak	H
2388.480	46.03	-1.88	44.15	54.00	-9.85	AVG	H
2390.000	56.75	-1.88	54.87	74.00	-19.13	peak	H
2390.000	46.07	-1.88	44.19	54.00	-9.81	AVG	H
2320.560	65.84	-2.16	63.68	74.00	-10.32	peak	V
2320.560	47.57	-2.16	45.41	54.00	-8.59	AVG	V
2390.000	62.12	-1.88	60.24	74.00	-13.76	peak	V
2390.000	55.26	-1.88	53.38	54.00	-0.62	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	07/04/2016
Frequency:	2437 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2375.360	56.14	-0.27	55.87	74.00	-18.13	peak	H
2375.360	44.84	-0.27	44.57	54.00	-9.43	AVG	H
2390.000	49.52	-0.22	49.30	74.00	-24.70	peak	H
2483.500	48.54	0.14	48.68	74.00	-25.32	peak	H
2494.870	50.97	0.18	51.15	74.00	-22.85	peak	H
2356.740	68.56	-0.34	68.22	74.00	-5.78	peak	V
2356.740	51.76	-0.34	51.42	54.00	-2.58	AVG	V
2390.000	59.16	-0.22	58.94	74.00	-15.06	peak	V
2390.000	54.05	-0.22	53.83	54.00	-0.17	AVG	V
2483.500	55.79	0.14	55.93	74.00	-18.07	peak	V
2483.500	47.11	0.14	47.25	54.00	-6.75	AVG	V
2488.030	57.76	0.15	57.91	74.00	-16.09	peak	V
2488.030	47.23	0.15	47.38	54.00	-6.62	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 2			Date:	10/13/2016		
Frequency:	2452 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	56.77	-1.51	55.26	74.00	-18.74	peak	H
2483.500	45.90	-1.51	44.39	54.00	-9.61	AVG	H
2486.000	58.41	-1.50	56.91	74.00	-17.09	peak	H
2486.000	45.78	-1.50	44.28	54.00	-9.72	AVG	H
2483.500	65.04	-1.51	63.53	74.00	-10.47	peak	V
2483.500	55.00	-1.51	53.49	54.00	-0.51	AVG	V
2485.350	65.28	-1.50	63.78	74.00	-10.22	peak	V
2485.350	52.83	-1.50	51.33	54.00	-2.67	AVG	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 2			Date:	09/30/2016		
Frequency:	2457 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	52.46	0.03	52.49	74.00	-21.51	peak	H
2483.500	44.21	0.03	44.24	54.00	-9.76	AVG	H
2483.746	54.84	0.03	54.87	74.00	-19.13	peak	H
2483.746	44.14	0.03	44.17	54.00	-9.83	AVG	H
2483.500	64.22	0.03	64.25	74.00	-9.75	peak	V
2483.500	53.65	0.03	53.68	54.00	-0.32	AVG	V
2485.122	65.29	0.04	65.33	74.00	-8.67	peak	V
2485.122	51.89	0.04	51.93	54.00	-2.07	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 2			Date:	07/04/2016		
Frequency:	2462 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	49.65	0.14	49.79	74.00	-24.21	peak	H
2485.760	53.30	0.14	53.44	74.00	-20.56	peak	H
2485.760	44.08	0.14	44.22	54.00	-9.78	AVG	H
2483.500	65.22	0.14	65.36	74.00	-8.64	peak	V
2483.500	51.52	0.14	51.66	54.00	-2.34	AVG	V
2485.800	68.87	0.14	69.01	74.00	-4.99	peak	V
2485.800	53.63	0.14	53.77	54.00	-0.23	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		Archer C7		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 3		Date:		07/04/2016	
Frequency:		2412 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2387.770	58.35	-0.22	58.13	74.00	-15.87	peak	H
2387.770	44.37	-0.22	44.15	54.00	-9.85	AVG	H
2390.000	54.26	-0.22	54.04	74.00	-19.96	peak	H
2390.000	45.00	-0.22	44.78	54.00	-9.22	AVG	H
2384.800	72.64	-0.24	72.40	74.00	-1.60	peak	V
2384.800	47.70	-0.24	47.46	54.00	-6.54	AVG	V
2390.000	69.13	-0.22	68.91	74.00	-5.09	peak	V
2390.000	54.12	-0.22	53.90	54.00	-0.10	AVG	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		Archer C7		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 3		Date:		10/01/2016	
Frequency:		2417 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2388.650	61.61	-0.34	61.27	74.00	-12.73	peak	H
2388.650	43.84	-0.34	43.50	54.00	-10.50	AVG	H
2390.000	55.13	-0.34	54.79	74.00	-19.21	peak	H
2390.000	43.92	-0.34	43.58	54.00	-10.42	AVG	H
2388.430	72.24	-0.34	71.90	74.00	-2.10	peak	V
2388.430	52.89	-0.34	52.55	54.00	-1.45	AVG	V
2390.000	69.28	-0.34	68.94	74.00	-5.06	peak	V
2390.000	53.71	-0.34	53.37	54.00	-0.63	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	10/13/2016
Frequency:	2422 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2388.600	60.49	-1.88	58.61	74.00	-15.39	peak	H
2388.600	47.77	-1.88	45.89	54.00	-8.11	AVG	H
2390.000	61.50	-1.88	59.62	74.00	-14.38	peak	H
2390.000	48.13	-1.88	46.25	54.00	-7.75	AVG	H
2388.120	69.51	-1.88	67.63	74.00	-6.37	peak	V
2388.120	55.37	-1.88	53.49	54.00	-0.51	AVG	V
2390.000	66.50	-1.88	64.62	74.00	-9.38	peak	V
2390.000	55.11	-1.88	53.23	54.00	-0.77	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	07/04/2016
Frequency:	2437 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2381.250	54.86	-0.25	54.61	74.00	-19.39	peak	H
2381.250	44.43	-0.25	44.18	54.00	-9.82	AVG	H
2390.000	54.33	-0.22	54.11	74.00	-19.89	peak	H
2390.000	44.52	-0.22	44.30	54.00	-9.70	AVG	H
2483.500	56.46	0.14	56.60	74.00	-17.40	peak	H
2483.500	44.42	0.14	44.56	54.00	-9.44	AVG	H
2497.150	59.07	0.19	59.26	74.00	-14.74	peak	H
2497.150	44.13	0.19	44.32	54.00	-9.68	AVG	H
2354.650	72.42	-0.36	72.06	74.00	-1.94	peak	V
2354.650	52.67	-0.36	52.31	54.00	-1.69	AVG	V
2390.000	64.44	-0.22	64.22	74.00	-9.78	peak	V
2390.000	53.95	-0.22	53.73	54.00	-0.27	AVG	V
2483.500	68.41	0.14	68.55	74.00	-5.45	peak	V
2483.500	51.64	0.14	51.78	54.00	-2.22	AVG	V
2488.220	72.82	0.15	72.97	74.00	-1.03	peak	V
2488.220	50.06	0.15	50.21	54.00	-3.79	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		Archer C7		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 3		Date:		10/13/2016	
Frequency:		2452 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	56.88	-1.51	55.37	74.00	-18.63	peak	H
2483.500	46.43	-1.51	44.92	54.00	-9.08	AVG	H
2487.800	65.07	-1.49	63.58	74.00	-10.42	peak	H
2487.800	46.52	-1.49	45.03	54.00	-8.97	AVG	H
2483.500	65.99	-1.51	64.48	74.00	-9.52	peak	V
2483.500	53.80	-1.51	52.29	54.00	-1.71	AVG	V
2486.600	74.84	-1.50	73.34	74.00	-0.66	peak	V
2486.600	51.87	-1.50	50.37	54.00	-3.63	AVG	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		Archer C7		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 3		Date:		10/01/2016	
Frequency:		2457 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	54.34	0.03	54.37	74.00	-19.63	peak	H
2483.500	44.39	0.03	44.42	54.00	-9.58	AVG	H
2484.821	60.95	0.04	60.99	74.00	-13.01	peak	H
2484.821	43.82	0.04	43.86	54.00	-10.14	AVG	H
2483.500	64.77	0.03	64.80	74.00	-9.20	peak	V
2483.500	51.46	0.03	51.49	54.00	-2.51	AVG	V
2485.466	73.38	0.04	73.42	74.00	-0.58	peak	V
2485.466	49.27	0.04	49.31	54.00	-4.69	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	07/04/2016
Frequency:	2462 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	55.91	0.14	56.05	74.00	-17.95	peak	H
2483.500	44.07	0.14	44.21	54.00	-9.79	AVG	H
2486.440	58.20	0.14	58.34	74.00	-15.66	peak	H
2486.440	43.52	0.14	43.66	54.00	-10.34	AVG	H
2483.500	73.52	0.14	73.66	74.00	-0.34	peak	V
2483.500	51.78	0.14	51.92	54.00	-2.08	AVG	V
2484.640	73.05	0.14	73.19	74.00	-0.81	peak	V
2484.640	48.58	0.14	48.72	54.00	-5.28	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard: FCC Part 15C		Test Distance: 3m					
Test item: Radiated Emission		Power: AC 120V/60Hz					
Model Number: Archer C7		Temp.(°C)/Hum.(%RH): 26(°C)/60%RH					
Mode: Mode 4		Date: 07/04/2016					
Frequency: 2412 MHz		Test By: Eric Ou Yang					
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2385.570	58.52	-0.24	58.28	74.00	-15.72	peak	H
2385.570	44.09	-0.24	43.85	54.00	-10.15	AVG	H
2390.000	54.47	-0.22	54.25	74.00	-19.75	peak	H
2390.000	43.85	-0.22	43.63	54.00	-10.37	AVG	H
2387.660	73.58	-0.22	73.36	74.00	-0.64	peak	V
2387.660	51.93	-0.22	51.71	54.00	-2.29	AVG	V
2390.000	73.97	-0.22	73.75	74.00	-0.25	peak	V
2390.000	53.85	-0.22	53.63	54.00	-0.37	AVG	V

Standard: FCC Part 15C		Test Distance: 3m					
Test item: Radiated Emission		Power: AC 120V/60Hz					
Model Number: Archer C7		Temp.(°C)/Hum.(%RH): 26(°C)/60%RH					
Mode: Mode 4		Date: 10/01/2016					
Frequency: 2417 MHz		Test By: Eric Ou Yang					
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2387.660	62.26	-0.34	61.92	74.00	-12.08	peak	H
2387.660	43.66	-0.34	43.32	54.00	-10.68	AVG	H
2390.000	59.86	-0.34	59.52	74.00	-14.48	peak	H
2390.000	44.13	-0.34	43.79	54.00	-10.21	AVG	H
2388.870	73.92	-0.34	73.58	74.00	-0.42	peak	V
2388.870	50.55	-0.34	50.21	54.00	-3.79	AVG	V
2390.000	71.46	-0.34	71.12	74.00	-2.88	peak	V
2390.000	51.49	-0.34	51.15	54.00	-2.85	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	10/13/2016
Frequency:	2422 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2385.600	61.98	-1.90	60.08	74.00	-13.92	peak	H
2385.600	46.95	-1.90	45.05	54.00	-8.95	AVG	H
2390.000	60.43	-1.88	58.55	74.00	-15.45	peak	H
2390.000	47.65	-1.88	45.77	54.00	-8.23	AVG	H
2384.280	71.69	-1.90	69.79	74.00	-4.21	peak	V
2384.280	51.49	-1.90	49.59	54.00	-4.41	AVG	V
2390.000	67.08	-1.88	65.20	74.00	-8.80	peak	V
2390.000	55.25	-1.88	53.37	54.00	-0.63	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Corrected factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	07/04/2016
Frequency:	2437 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2389.040	60.11	-0.22	59.89	74.00	-14.11	peak	H
2389.040	44.15	-0.22	43.93	54.00	-10.07	AVG	H
2390.000	53.84	-0.22	53.62	74.00	-20.38	peak	H
2390.000	44.39	-0.22	44.17	54.00	-9.83	AVG	H
2483.500	58.39	0.14	58.53	74.00	-15.47	peak	H
2483.500	44.26	0.14	44.40	54.00	-9.60	AVG	H
2487.080	60.41	0.15	60.56	74.00	-13.44	peak	H
2487.080	43.72	0.15	43.87	54.00	-10.13	AVG	H
2385.810	71.19	-0.24	70.95	74.00	-3.05	peak	V
2385.810	52.16	-0.24	51.92	54.00	-2.08	AVG	V
2390.000	65.73	-0.22	65.51	74.00	-8.49	peak	V
2390.000	53.99	-0.22	53.77	54.00	-0.23	AVG	V
2483.500	67.41	0.14	67.55	74.00	-6.45	peak	V
2483.500	50.32	0.14	50.46	54.00	-3.54	AVG	V
2491.640	71.30	0.17	71.47	74.00	-2.53	peak	V
2491.640	47.95	0.17	48.12	54.00	-5.88	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		Archer C7		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 4		Date:		10/01/2016	
Frequency:		2452 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	59.08	-1.51	57.57	74.00	-16.43	peak	H
2483.500	47.90	-1.51	46.39	54.00	-7.61	AVG	H
2484.450	63.61	-1.50	62.11	74.00	-11.89	peak	H
2484.450	47.52	-1.50	46.02	54.00	-7.98	AVG	H
2483.500	66.46	-1.51	64.95	74.00	-9.05	peak	V
2483.500	54.91	-1.51	53.40	54.00	-0.60	AVG	V
2483.700	74.88	-1.51	73.37	74.00	-0.63	peak	V
2483.700	53.99	-1.51	52.48	54.00	-1.52	AVG	V

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		Archer C7		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		Mode 4		Date:		10/01/2016	
Frequency:		2457 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	58.36	0.03	58.39	74.00	-15.61	peak	H
2483.500	43.67	0.03	43.70	54.00	-10.30	AVG	H
2484.821	65.24	0.04	65.28	74.00	-8.72	peak	H
2484.821	43.47	0.04	43.51	54.00	-10.49	AVG	H
2483.500	71.19	0.03	71.22	74.00	-2.78	peak	V
2483.500	49.74	0.03	49.77	54.00	-4.23	AVG	V
2485.079	73.65	0.04	73.69	74.00	-0.31	peak	V
2485.079	48.90	0.04	48.94	54.00	-5.06	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	07/04/2016
Frequency:	2462 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	56.21	0.14	56.35	74.00	-17.65	peak	H
2483.500	44.80	0.14	44.94	54.00	-9.06	AVG	H
2484.560	64.06	0.14	64.20	74.00	-9.80	peak	H
2484.560	44.13	0.14	44.27	54.00	-9.73	AVG	H
2483.500	68.22	0.14	68.36	74.00	-5.64	peak	V
2483.500	53.52	0.14	53.66	54.00	-0.34	AVG	V
2484.120	73.48	0.14	73.62	74.00	-0.38	peak	V
2484.120	52.18	0.14	52.32	54.00	-1.68	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 5			Date:	07/04/2016		
Frequency:	2422 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2387.880	54.60	-0.22	54.38	74.00	-19.62	peak	H
2387.880	44.56	-0.22	44.34	54.00	-9.66	AVG	H
2390.000	50.12	-0.22	49.90	74.00	-24.10	peak	H
2388.240	72.63	-0.22	72.41	74.00	-1.59	peak	V
2388.240	52.39	-0.22	52.17	54.00	-1.83	AVG	V
2390.000	73.24	-0.22	73.02	74.00	-0.98	peak	V
2390.000	53.91	-0.22	53.69	54.00	-0.31	AVG	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 5			Date:	10/01/2016		
Frequency:	2427 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2389.200	56.66	-0.34	56.32	74.00	-17.68	peak	H
2389.200	45.66	-0.34	45.32	54.00	-8.68	AVG	H
2390.000	58.58	-0.34	58.24	74.00	-15.76	peak	H
2390.000	46.29	-0.34	45.95	54.00	-8.05	AVG	H
2389.800	65.27	-0.34	64.93	74.00	-9.07	peak	V
2389.800	53.51	-0.34	53.17	54.00	-0.83	AVG	V
2390.000	64.02	-0.34	63.68	74.00	-10.32	peak	V
2390.000	53.82	-0.34	53.48	54.00	-0.52	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5	Date:	10/13/2016
Frequency:	2432 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2389.250	58.08	-1.88	56.20	74.00	-17.80	peak	H
2389.250	46.40	-1.88	44.52	54.00	-9.48	AVG	H
2390.000	56.56	-1.88	54.68	74.00	-19.32	peak	H
2390.000	46.66	-1.88	44.78	54.00	-9.22	AVG	H
2389.750	70.28	-1.88	68.40	74.00	-5.60	peak	V
2389.750	54.61	-1.88	52.73	54.00	-1.27	AVG	V
2390.000	68.65	-1.88	66.77	74.00	-7.23	peak	V
2390.000	55.24	-1.88	53.36	54.00	-0.64	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5	Date:	07/04/2016
Frequency:	2437 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2386.950	53.06	-0.22	52.84	74.00	-21.16	peak	H
2386.950	44.11	-0.22	43.89	54.00	-10.11	AVG	H
2390.000	52.42	-0.22	52.20	74.00	-21.80	peak	H
2390.000	44.16	-0.22	43.94	54.00	-10.06	AVG	H
2483.500	52.32	0.14	52.46	74.00	-21.54	peak	H
2483.500	43.60	0.14	43.74	54.00	-10.26	AVG	H
2490.690	51.36	0.17	51.53	74.00	-22.47	peak	H
2383.910	68.18	-0.24	67.94	74.00	-6.06	peak	V
2383.910	53.95	-0.24	53.71	54.00	-0.29	AVG	V
2390.000	68.95	-0.22	68.73	74.00	-5.27	peak	V
2390.000	54.11	-0.22	53.89	54.00	-0.11	AVG	V
2483.500	65.66	0.14	65.80	74.00	-8.20	peak	V
2483.500	48.69	0.14	48.83	54.00	-5.17	AVG	V
2484.420	64.94	0.14	65.08	74.00	-8.92	peak	V
2484.420	48.26	0.14	48.40	54.00	-5.60	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 5			Date:	10/13/2016		
Frequency:	2442 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	56.44	-1.51	54.93	74.00	-19.07	peak	H
2483.500	46.65	-1.51	45.14	54.00	-8.86	AVG	H
2488.480	58.55	-1.48	57.07	74.00	-16.93	peak	H
2488.480	46.05	-1.48	44.57	54.00	-9.43	AVG	H
2483.500	66.78	-1.51	65.27	74.00	-8.73	peak	V
2483.500	54.95	-1.51	53.44	54.00	-0.56	AVG	V
2483.980	68.96	-1.50	67.46	74.00	-6.54	peak	V
2483.980	54.88	-1.50	53.38	54.00	-0.62	AVG	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	Archer C7			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	Mode 5			Date:	10/01/2016		
Frequency:	2447 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	53.07	0.03	53.10	74.00	-20.90	peak	H
2483.500	44.02	0.03	44.05	54.00	-9.95	AVG	H
2484.312	54.55	0.04	54.59	74.00	-19.41	peak	H
2484.312	43.87	0.04	43.91	54.00	-10.09	AVG	H
2483.500	66.66	0.03	66.69	74.00	-7.31	peak	V
2483.500	53.50	0.03	53.53	54.00	-0.47	AVG	V
2484.577	66.99	0.04	67.03	74.00	-6.97	peak	V
2484.577	52.34	0.04	52.38	54.00	-1.62	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).



Standard:	FCC Part 15C	Test Distance:	3m				
Test item:	Radiated Emission	Power:	AC 120V/60Hz				
Model Number:	Archer C7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH				
Mode:	Mode 5	Date:	07/04/2016				
Frequency:	2452 MHz	Test By:	Eric Ou Yang				
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2483.500	51.33	0.14	51.47	74.00	-22.53	peak	H
2484.300	53.85	0.14	53.99	74.00	-20.01	peak	H
2484.300	43.69	0.14	43.83	54.00	-10.17	AVG	H
2483.500	67.56	0.14	67.70	74.00	-6.30	peak	V
2483.500	53.58	0.14	53.72	54.00	-0.28	AVG	V
2489.600	71.75	0.16	71.91	74.00	-2.09	peak	V
2489.600	51.17	0.16	51.33	54.00	-2.67	AVG	V

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

6 Maximum Conducted Output Power Measurement

6.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for maximum output power is 30dBm.

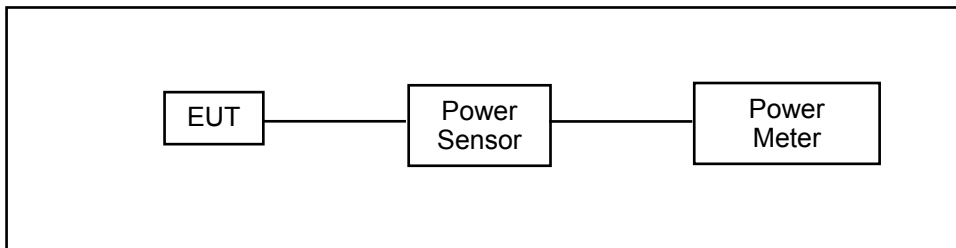
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

$$\text{Directional Gain} = 10 \cdot \log\left\{\frac{10^{G1/10} + 10^{G2/10} + \dots + 10^{Gn/10}}{NANT}\right\}$$

* CDD mode : $10 \cdot \log\left\{\frac{10^{G1/10} + 10^{G2/10} + \dots + 10^{Gn/10}}{NANT}\right\} = 3 \text{ dBi} < 6\text{dBi}$

* CDD mode power limit shall be reduced = 30 dBm

6.2. Test Setup



6.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	08/24/2015	1 year
				08/29/2016	1 year
Power Meter	Anritsu	ML2495A	1135009	08/24/2015	1 year
				08/29/2016	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1500	140303	02/23/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No calibration request.

6.4. Test Procedure

The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.



6.5. Test Result

Model Number	Archer C7						
Test Item	Maximum Conducted Output Power						
Date of Test	07/04/2016, 10/13/ 2016						
Test Mode	Frequency (MHz)	Data Rate	Average Output Power				
			Measurement Results				Limit
			ANT-0		ANT-1		
			dBm	W	dBm	W	dBm
Mode 2	2412	1M	18.17	0.066	17.70	0.059	< 30
	2417		19.04	0.080	18.78	0.076	< 30
	2422		20.81	0.121	20.28	0.107	< 30
	2437		21.92	0.156	21.82	0.152	< 30
	2452		20.16	0.104	19.94	0.099	< 30
	2457		19.02	0.080	18.75	0.075	< 30
	2462		18.06	0.064	17.63	0.058	< 30
Mode 3	2412	6M	13.02	0.020	12.71	0.019	< 30
	2417		14.15	0.026	13.90	0.025	< 30
	2422		16.41	0.044	15.85	0.038	< 30
	2437		19.34	0.086	19.07	0.081	< 30
	2452		15.84	0.038	15.63	0.037	< 30
	2457		14.51	0.028	14.23	0.026	< 30
	2462		13.68	0.023	13.15	0.021	< 30

Note:1. The relevant measured result has the offset with cable loss already.

2. Evaluated high and low data rate, the report record worst case low data rate measurement results.



Model Number	Archer C7						
Test Item	Maximum Conducted Output Power						
Date of Test	07/04/2016, 10/13/ 2016						
Test Mode	Frequency (MHz)	Data Rate	Average Output Power				
			Measurement Results				Limit
			ANT-2		ANT-0+1+2		
			dBm	W			dBm
Mode 2	2412	1M	18.04	0.064	22.75	0.188	< 30
	2417		18.93	0.078	23.69	0.234	< 30
	2422		20.52	0.113	25.31	0.340	< 30
	2437		21.87	0.154	26.64	0.461	< 30
	2452		20.14	0.103	24.85	0.306	< 30
	2457		18.99	0.079	23.69	0.234	< 30
	2462		17.92	0.062	22.64	0.184	< 30
Mode 3	2412	6M	12.93	0.020	17.66	0.058	< 30
	2417		14.01	0.025	18.79	0.076	< 30
	2422		16.12	0.041	20.90	0.123	< 30
	2437		19.17	0.083	23.97	0.249	< 30
	2452		15.81	0.038	20.53	0.113	< 30
	2457		14.31	0.027	19.12	0.082	< 30
	2462		13.31	0.021	18.16	0.065	< 30

Note:1. The relevant measured result has the offset with cable loss already.

2. Evaluated high and low data rate, the report record worst case low data rate measurement results.



Model Number	Archer C7						
Test Item	Maximum Conducted Output Power						
Date of Test	07/04/2016, 10/13/ 2016						
Test Mode	Frequency (MHz)	Data Rate	Average Output Power				
			Measurement Results				Limit
			ANT-0		ANT-1		
			dBm	W			dBm
Mode 4	2412	19.5M	13.06	0.020	12.74	0.019	< 30
	2417		14.10	0.026	13.66	0.023	< 30
	2422		16.39	0.044	15.45	0.035	< 30
	2437		19.16	0.082	19.05	0.080	< 30
	2452		15.47	0.035	15.43	0.035	< 30
	2457		14.10	0.026	13.72	0.024	< 30
	2462		13.24	0.021	12.77	0.019	< 30
Mode 5	2422	40.5M	9.27	0.008	8.76	0.008	< 30
	2427		11.91	0.016	11.36	0.014	< 30
	2432		13.08	0.020	12.43	0.017	< 30
	2437		13.90	0.025	13.48	0.022	< 30
	2442		13.36	0.022	12.77	0.019	< 30
	2447		12.22	0.017	11.59	0.014	< 30
	2452		10.03	0.010	9.27	0.008	< 30

Note:1. The relevant measured result has the offset with cable loss already.

2. Evaluated high and low data rate, the report record worst case low data rate measurement results.



Model Number	Archer C7						
Test Item	Maximum Conducted Output Power						
Date of Test	07/04/2016, 10/13/ 2016						
Test Mode	Frequency (MHz)	Data Rate	Average Output Power				
			Measurement Results				Limit
			ANT-2		ANT-0+1+2		
			dBm	W			dBm
Mode 4	2412	19.5M	12.98	0.020	17.70	0.059	< 30
	2417		13.85	0.024	18.64	0.073	< 30
	2422		16.03	0.040	20.74	0.119	< 30
	2437		18.77	0.075	23.77	0.238	< 30
	2452		15.37	0.034	20.19	0.105	< 30
	2457		13.91	0.025	18.68	0.074	< 30
	2462		13.14	0.021	17.83	0.061	< 30
Mode 5	2422	40.5M	8.55	0.007	13.64	0.023	< 30
	2427		10.91	0.012	16.18	0.042	< 30
	2432		11.72	0.015	17.22	0.053	< 30
	2437		13.28	0.021	18.33	0.068	< 30
	2442		12.38	0.017	17.63	0.058	< 30
	2447		11.34	0.014	16.50	0.045	< 30
	2452		9.14	0.008	14.27	0.027	< 30

Note:1. The relevant measured result has the offset with cable loss already.

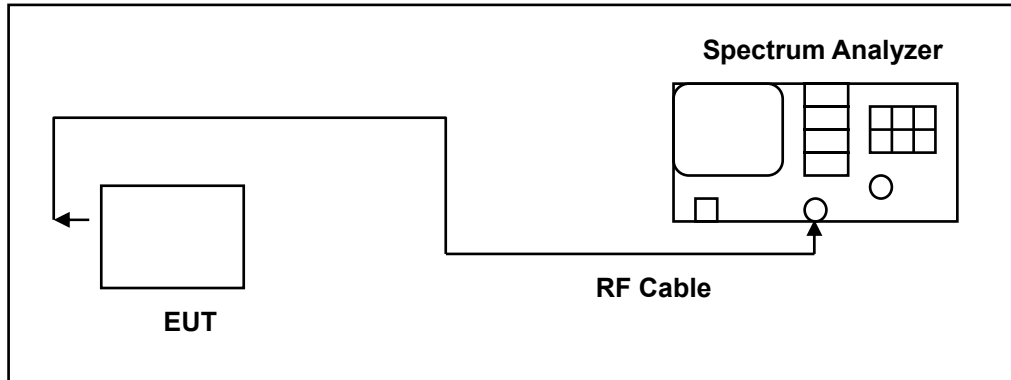
2. Evaluated high and low data rate, the report record worst case low data rate measurement results.

7 6dB RF Bandwidth Measurement

7.1. Limit

6dB RF Bandwidth: Systems using digital modulation techniques may operate in the 2400–2483.5 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

7.2. Test Setup



7.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/15/2015	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1500	140303	02/23/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

7.4. Test Procedure

The EUT tested to DTS test procedure of KDB558074D01 for compliance to FCC 47CFR 15.247 requirements.

6dB RF Bandwidth: The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels (Channel low, middle, high)



7.5. Test Result

Model Number	Archer C7				
Test Item	6dB RF Bandwidth				
Date of Test	07/05/2016				
Test Mode	Frequency (MHz)	Measurement (kHz)			Limit (kHz)
		ANT-0	ANT-1	ANT-2	
Mode 2	2412	6605	6599	7024	> 500
	2437	7575	7093	7085	> 500
	2462	7057	7069	6596	> 500
Mode 3	2412	15150	13900	15070	> 500
	2437	15340	15330	15130	> 500
	2462	15120	15150	15100	> 500
Mode 4	2412	15140	15130	15140	> 500
	2437	15140	15130	15130	> 500
	2462	15080	15080	15140	> 500
Mode 5	2422	32600	35030	33770	> 500
	2437	33860	32580	32570	> 500
	2452	33810	32560	32610	> 500



7.6. Test Graphs

Mode 2: IEEE 802.11b link mode_ANT-0

2412 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz Trig: Free Run #Gain: Low #Atten: 20 dB AvgHold: 10/10 Radio Std: None Radio Device: BTS</p> <p>Ref 15.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 10.892 MHz Total Power 25.2 dBm Transmit Freq Error 272.48 kHz OBW Power 99.00 % x dB Bandwidth 6.605 MHz x dB -6.00 dB</p>
2437 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run #Gain: Low #Atten: 20 dB AvgHold: 10/10 Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 13.199 MHz Total Power 29.1 dBm Transmit Freq Error 87.242 kHz OBW Power 99.00 % x dB Bandwidth 7.575 MHz x dB -6.00 dB</p>
2462 MHz	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz Trig: Free Run #Gain: Low #Atten: 20 dB AvgHold: 10/10 Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 11.157 MHz Total Power 25.4 dBm Transmit Freq Error 274.41 kHz OBW Power 99.00 % x dB Bandwidth 7.057 MHz x dB -6.00 dB</p>



Mode 3: IEEE 802.11g link mode_ANT-0

2412 MHz



2437 MHz



2462 MHz





Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode_ANT-0

<p>2412 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 10.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.263 MHz Total Power 20.6 dBm</p> <p>Transmit Freq Error 28.059 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.14 MHz x dB -6.00 dB</p>
<p>2437 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 15.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.466 MHz Total Power 26.5 dBm</p> <p>Transmit Freq Error 21.612 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.14 MHz x dB -6.00 dB</p>
<p>2462 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 15.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.282 MHz Total Power 20.4 dBm</p> <p>Transmit Freq Error 21.975 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.08 MHz x dB -6.00 dB</p>



Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode_ANT-0

2422 MHz



2437 MHz



2452 MHz





Mode 2: IEEE 802.11b link mode_ANT-1

2412 MHz



2437 MHz



2462 MHz





Mode 3: IEEE 802.11g link mode_ANT-1

2412 MHz



2437 MHz



2462 MHz





Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode_ANT-1

<p>2412 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 10.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.294 MHz Total Power 19.8 dBm</p> <p>Transmit Freq Error -30.149 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.13 MHz x dB -6.00 dB</p>
<p>2437 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 15.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.447 MHz Total Power 26.5 dBm</p> <p>Transmit Freq Error -35.350 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.13 MHz x dB -6.00 dB</p>
<p>2462 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 15.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.268 MHz Total Power 19.8 dBm</p> <p>Transmit Freq Error -51.778 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.08 MHz x dB -6.00 dB</p>



Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode_ANT-1

2422 MHz



2437 MHz



2452 MHz





Mode 2: IEEE 802.11b link mode_ANT-2

2412 MHz



2437 MHz



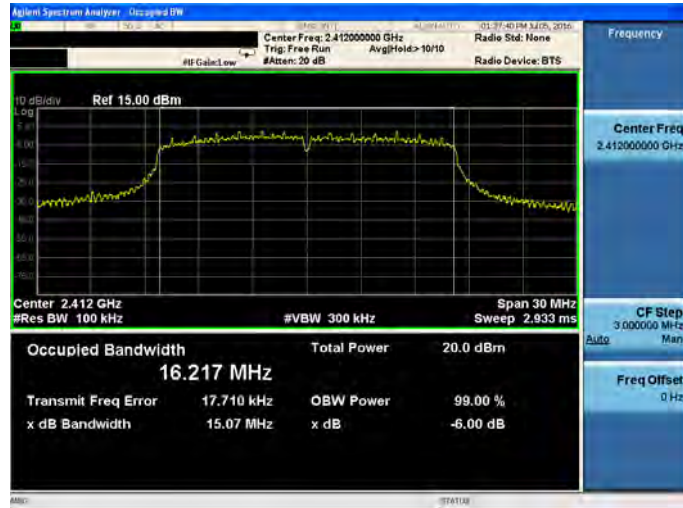
2462 MHz





Mode 3: IEEE 802.11g link mode_ANT-2

2412 MHz



2437 MHz



2462 MHz





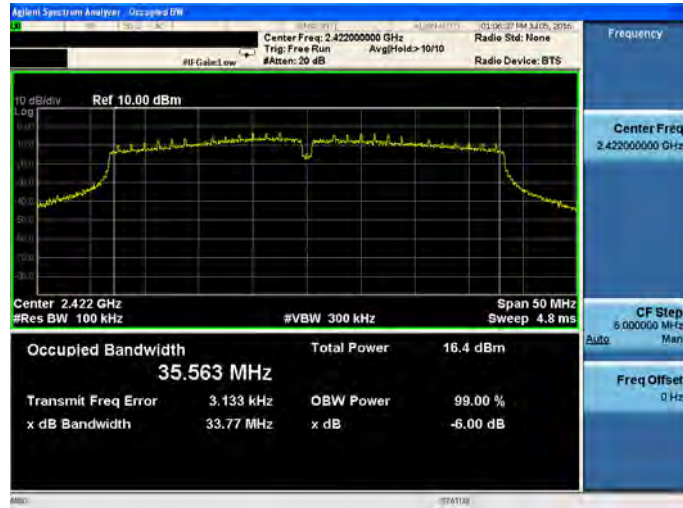
Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode_ANT-2

<p>2412 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 10.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.292 MHz Total Power 20.1 dBm</p> <p>Transmit Freq Error 4.808 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.14 MHz x dB -6.00 dB</p>
<p>2437 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 15.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.416 MHz Total Power 26.4 dBm</p> <p>Transmit Freq Error 7.646 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.13 MHz x dB -6.00 dB</p>
<p>2462 MHz</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz Trig: Free Run #Att: 20 dB</p> <p>Ref 15.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.272 MHz Total Power 20.0 dBm</p> <p>Transmit Freq Error -1.693 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.14 MHz x dB -6.00 dB</p>



Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode_ANT-2

2422 MHz



2437 MHz



2452 MHz



8 Maximum Power Density Measurement

8.1. Limit

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

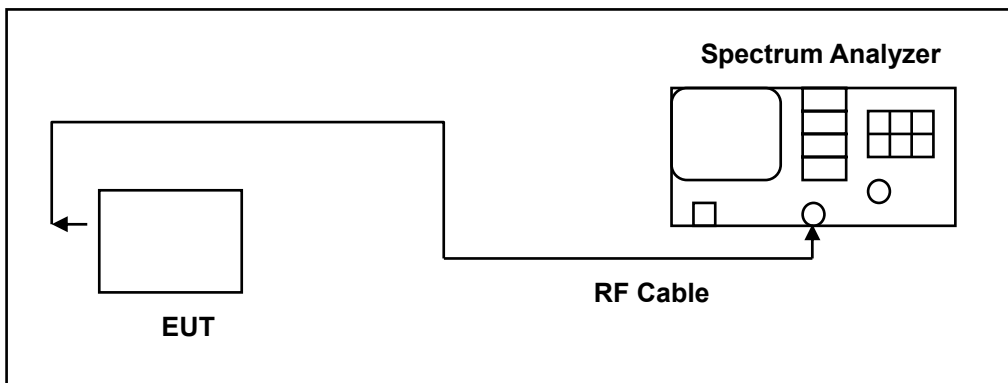
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Directional Gain = $10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / NANT\}$

* CDD mode : Directional Gain = $10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / NANT\} = 7.77 \text{ dBi} > 6\text{dBi}$

* CDD mode power Density limit shall be reduced = $8 - 1.77 = 6.23 \text{ dBm/3KHz}$.

8.2. Test Setup



8.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/15/2015	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1500	140303	02/23/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.



8.4. Test Procedure

The EUT tested to DTS test procedure of KDB558074D01 for compliance to FCC 47CFR 15.247 requirements.

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



8.5. Test Result


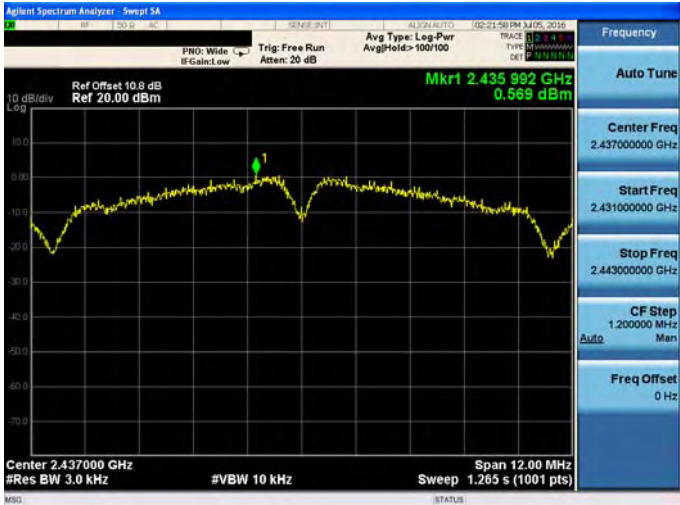

Model Number	Archer C7				
Test Item	Maximum Power Density				
Date of Test	07/04/2016				
Test Mode	Frequency (MHz)	Measurement (dBm/3KHz)			Limit (dBm/3KHz)
		ANT-0	ANT-1	ANT-2	
Mode 2	2412	-3.298	-3.303	-2.793	< 8
	2437	0.569	0.742	0.449	< 8
	2462	-2.860	-2.905	-2.787	< 8
Mode 3	2412	-9.527	-10.651	-9.916	< 8
	2437	-4.580	-3.373	-4.137	< 8
	2462	-9.922	-10.511	-10.245	< 8
Mode 4	2412	-10.616	-10.861	-10.391	< 8
	2437	-4.386	-4.435	-6.064	< 8
	2462	-10.842	-10.599	-10.343	< 8
Mode 5	2422	-17.518	-17.886	-17.288	< 8
	2437	-11.893	-10.912	-11.071	< 8
	2452	-13.909	-14.512	-14.643	< 8

Model Number	Archer C7			
Test Item	Maximum Power Density			
Date of Test	07/04/2016			
Test Mode	Frequency (MHz)	Measurement (dBm/3KHz)		Limit (dBm/3KHz)
		ANT-0+1+2		
Mode 2	2412	1.647		< 6.23
	2437	5.360		< 6.23
	2462	1.921		< 6.23
Mode 3	2412	-5.235		< 6.23
	2437	0.770		< 6.23
	2462	-5.448		< 6.23
Mode 4	2412	-5.847		< 6.23
	2437	-0.124		< 6.23
	2462	-5.819		< 6.23
Mode 5	2422	-12.786		< 6.23
	2437	-6.500		< 6.23
	2452	-9.572		< 6.23



8.6. Test Graphs

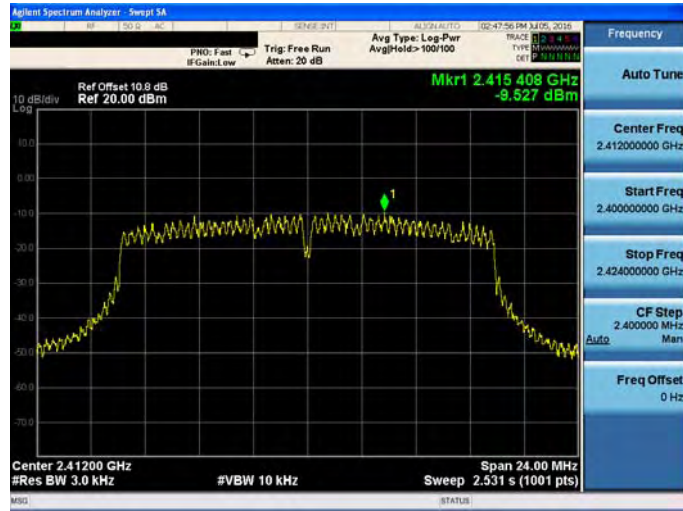
Mode 2: IEEE 802.11b link mode_ANT-0

2412 MHz	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Ref Offset 10.0 dB Ref 20.00 dBm</p> <p>Mkr1 2.410 992 GHz -3.298 dBm</p> <p>Center 2.412000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 1.265 s (1001 pts)</p> <p>Span 12.00 MHz</p> <p>Frequency: Auto Tune Center Freq: 2.41200000 GHz Start Freq: 2.40600000 GHz Stop Freq: 2.41800000 GHz CF Step: 1.200000 MHz Freq Offset: 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Ref Offset 10.0 dB Ref 20.00 dBm</p> <p>Mkr1 2.435 992 GHz 0.569 dBm</p> <p>Center 2.437000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 1.265 s (1001 pts)</p> <p>Span 12.00 MHz</p> <p>Frequency: Auto Tune Center Freq: 2.43700000 GHz Start Freq: 2.43100000 GHz Stop Freq: 2.44300000 GHz CF Step: 1.200000 MHz Freq Offset: 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Sweep 5A</p> <p>Ref Offset 10.0 dB Ref 20.00 dBm</p> <p>Mkr1 2.462 600 GHz -2.860 dBm</p> <p>Center 2.462000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 1.265 s (1001 pts)</p> <p>Span 12.00 MHz</p> <p>Frequency: Auto Tune Center Freq: 2.46200000 GHz Start Freq: 2.45600000 GHz Stop Freq: 2.46800000 GHz CF Step: 1.200000 MHz Freq Offset: 0 Hz</p>

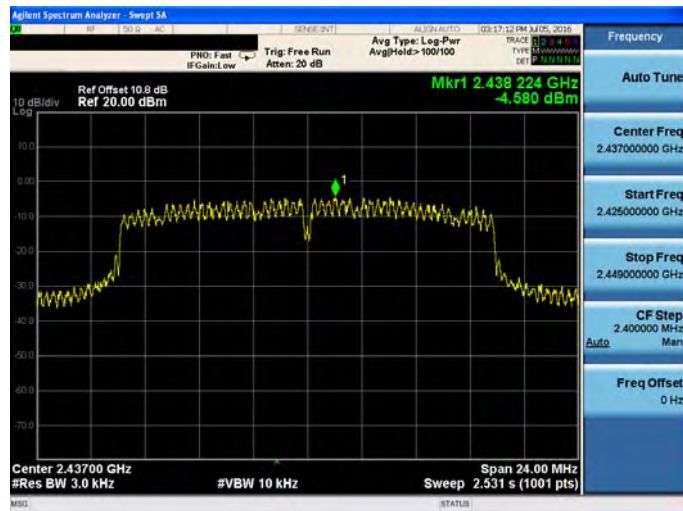


Mode 3: IEEE 802.11g link mode_ANT-0

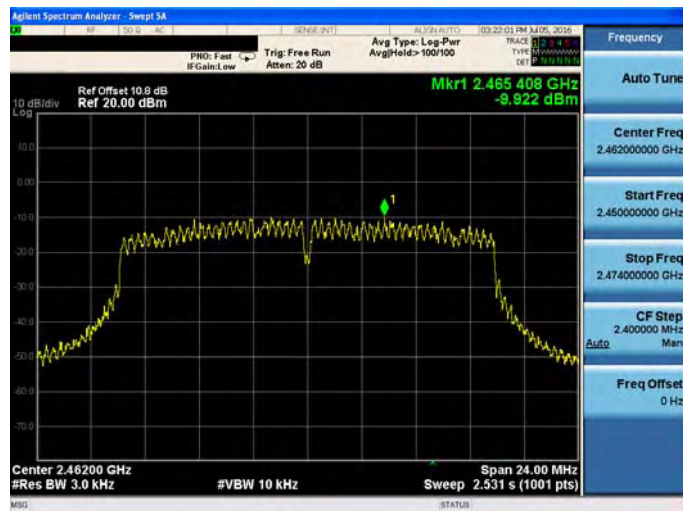
2412 MHz



2437 MHz



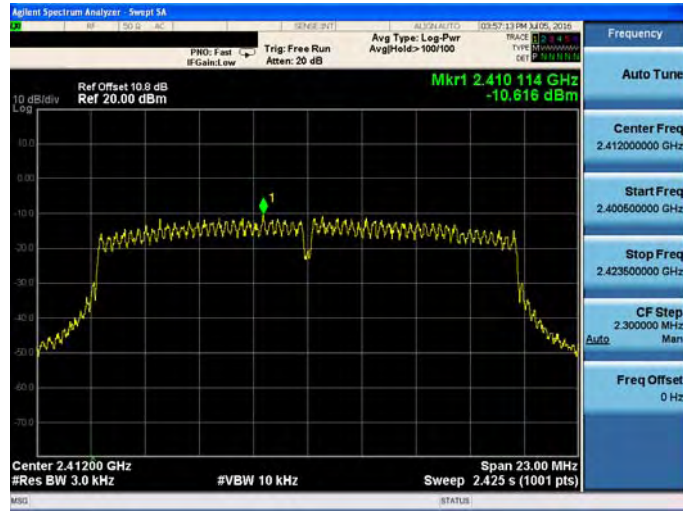
2462 MHz



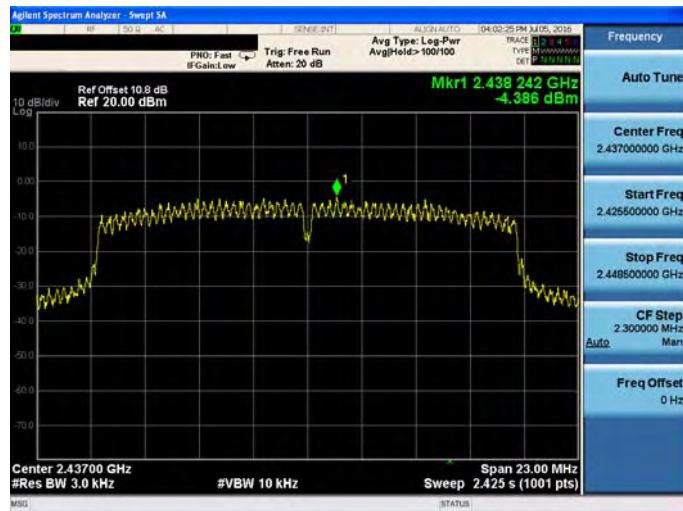


Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode_ANT-0

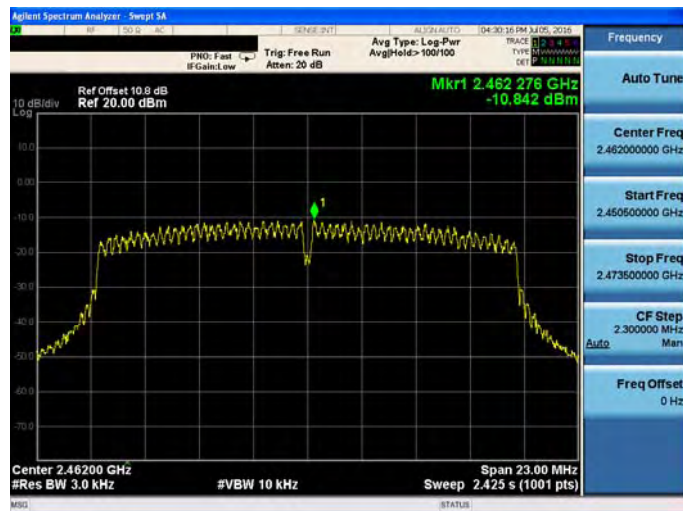
2412 MHz



2437 MHz



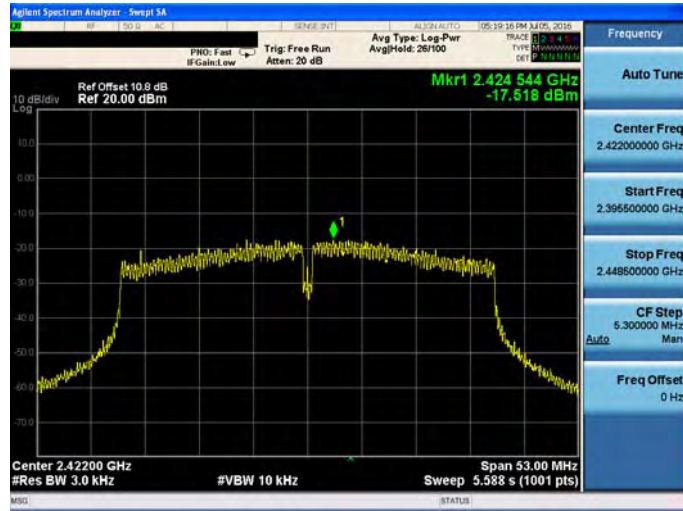
2462 MHz



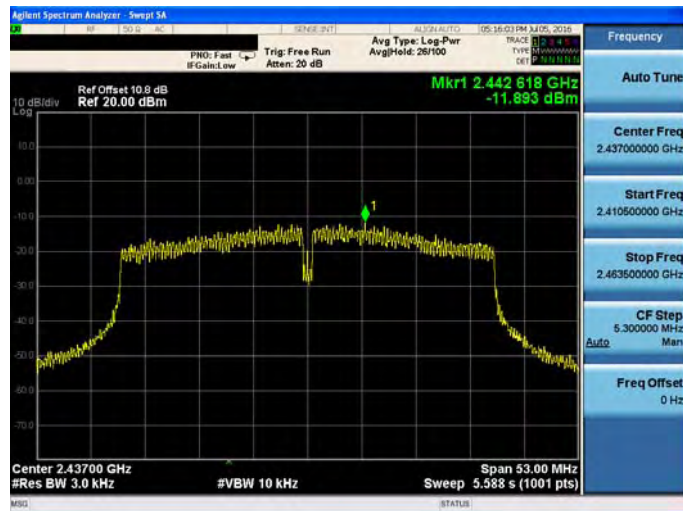


Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode_ANT-0

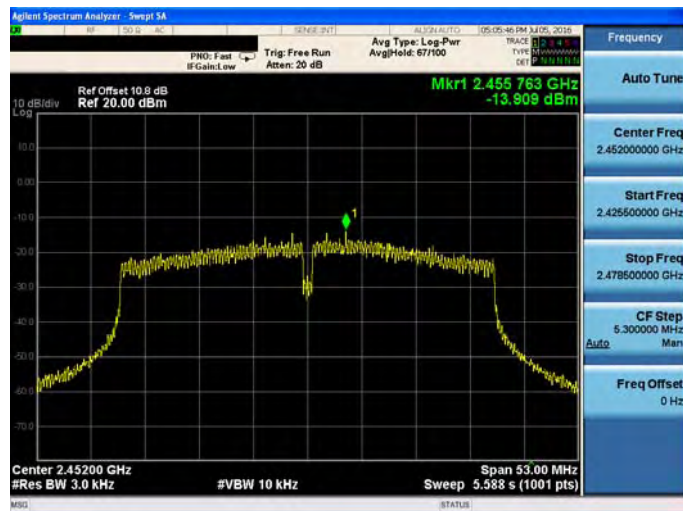
2422 MHz



2437 MHz



2452 MHz





Mode 2: IEEE 802.11b link mode_ANT-1

2412 MHz



2437 MHz



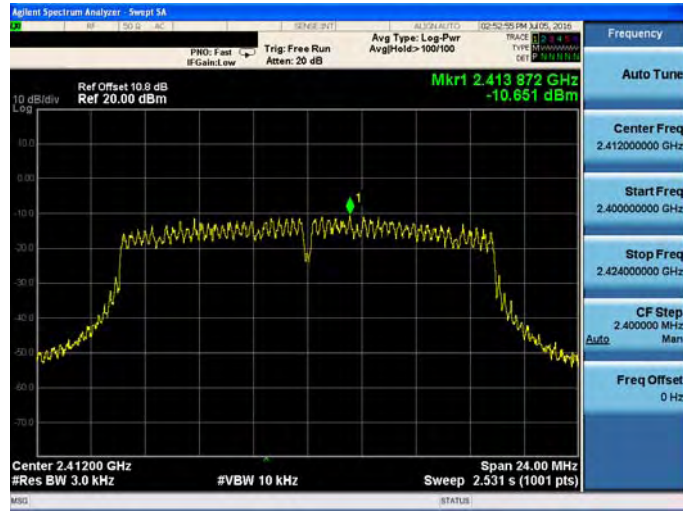
2462 MHz



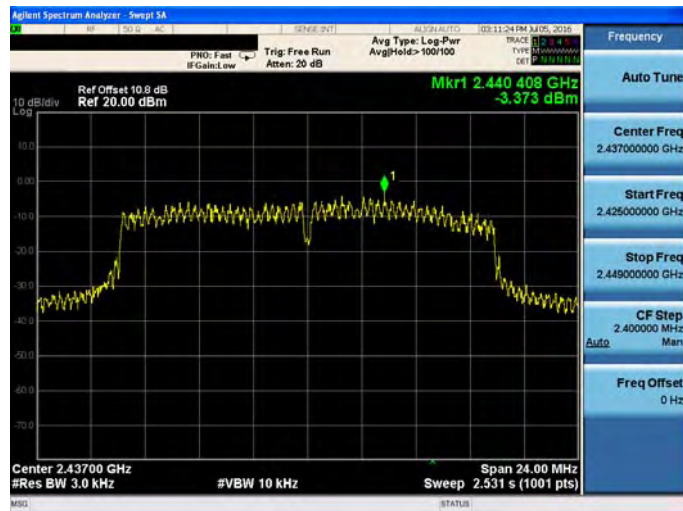


Mode 3: IEEE 802.11g link mode_ANT-1

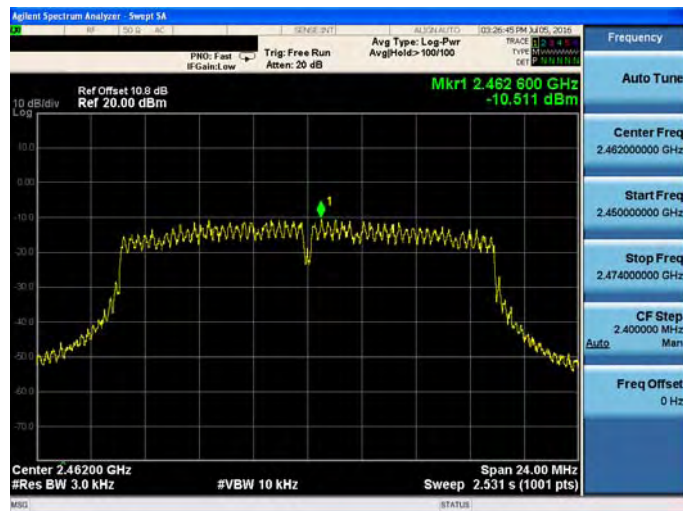
2412 MHz



2437 MHz



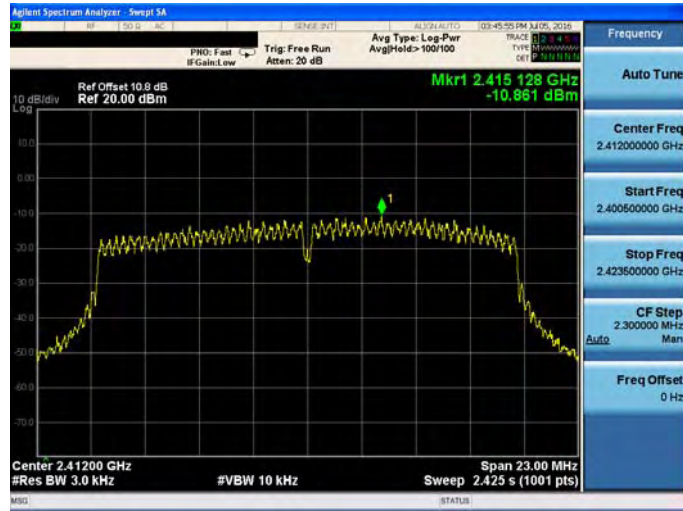
2462 MHz



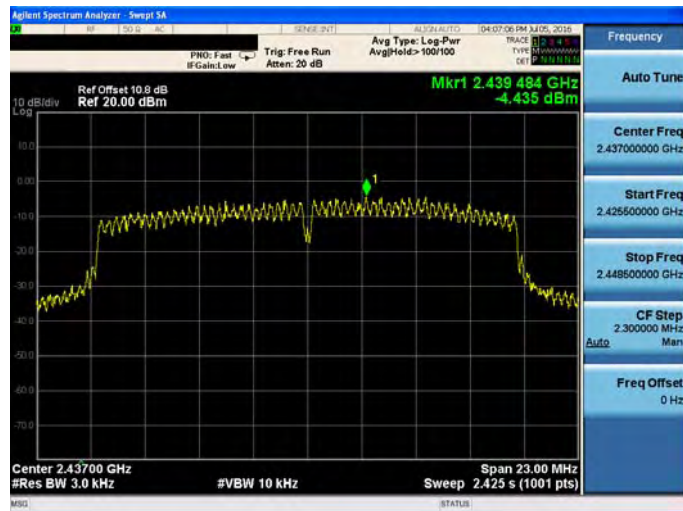


Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode_ANT-1

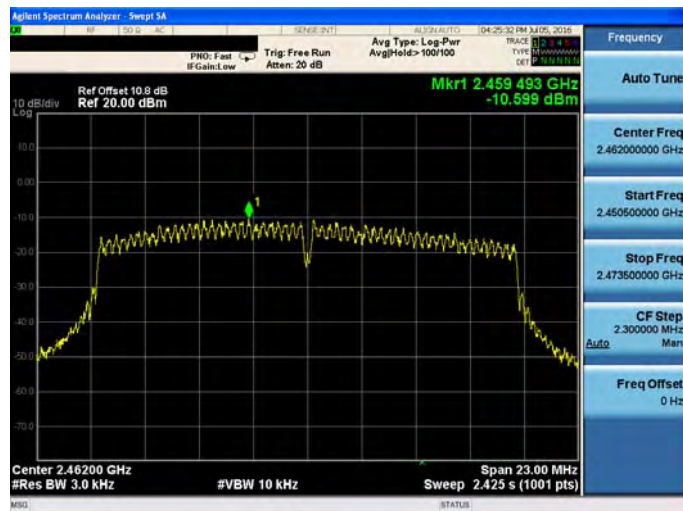
2412 MHz



2437 MHz



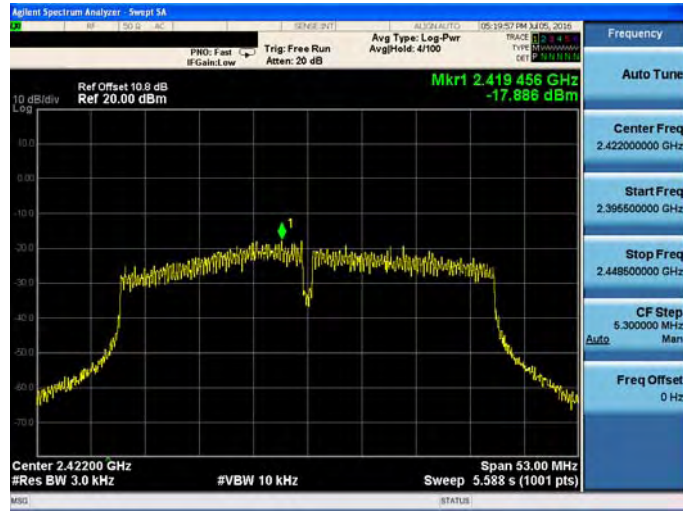
2462 MHz



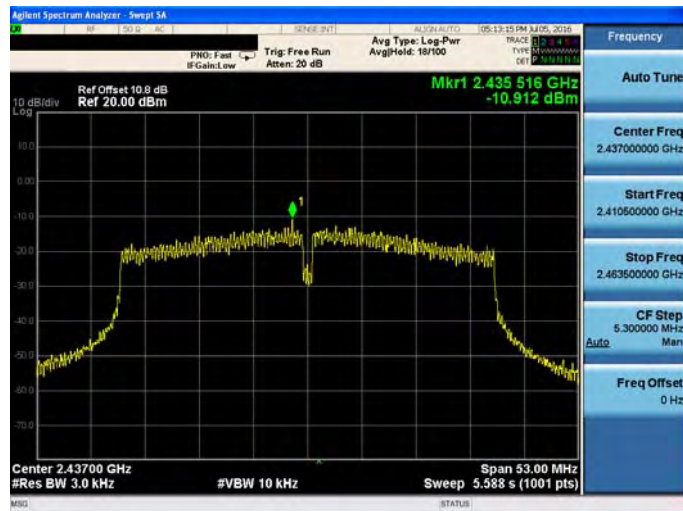


Mode 5: IEEE 802.11n 2.4GHz 40MHz link mode_ANT-1

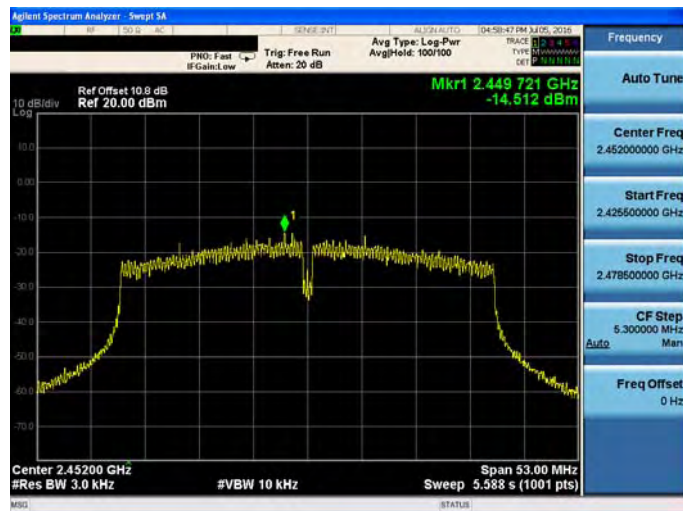
2422 MHz



2437 MHz



2452 MHz





Mode 2: IEEE 802.11b link mode_ANT-2

2412 MHz



2437 MHz



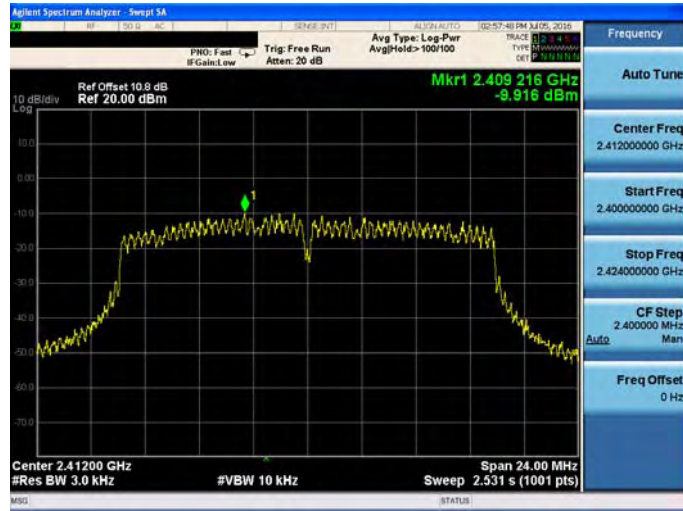
2462 MHz



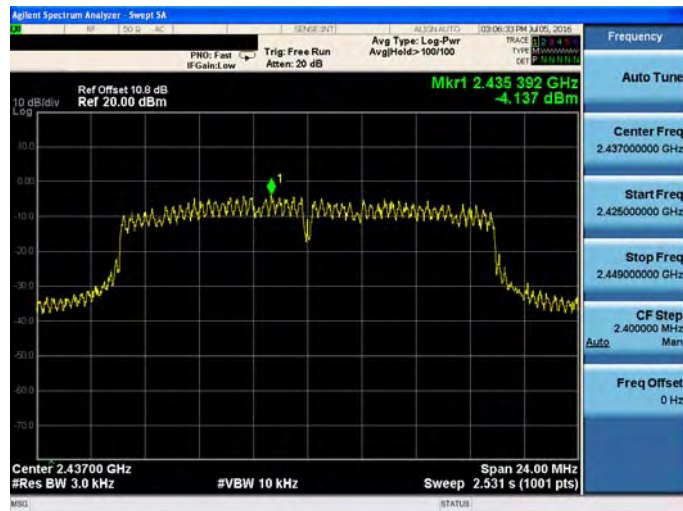


Mode 3: IEEE 802.11g link mode_ANT-2

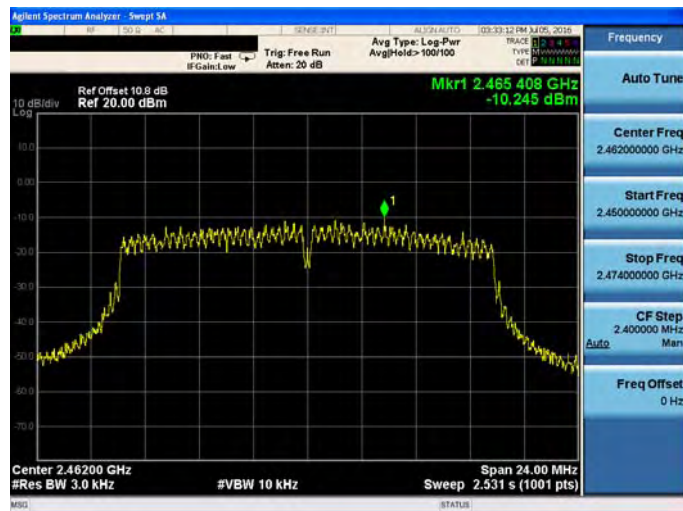
2412 MHz



2437 MHz



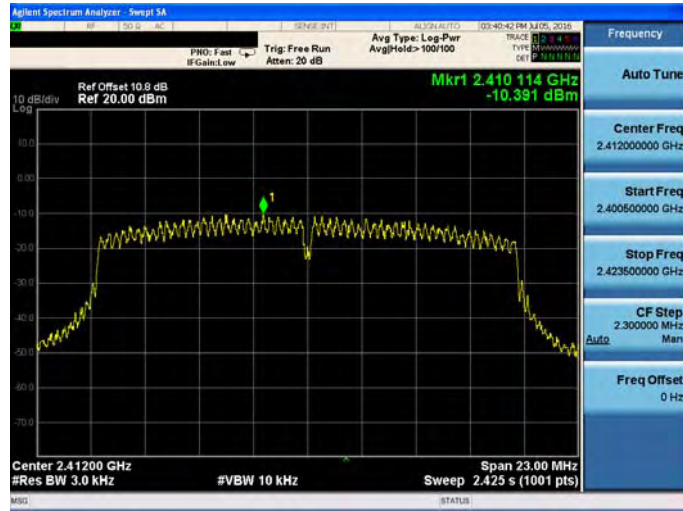
2462 MHz



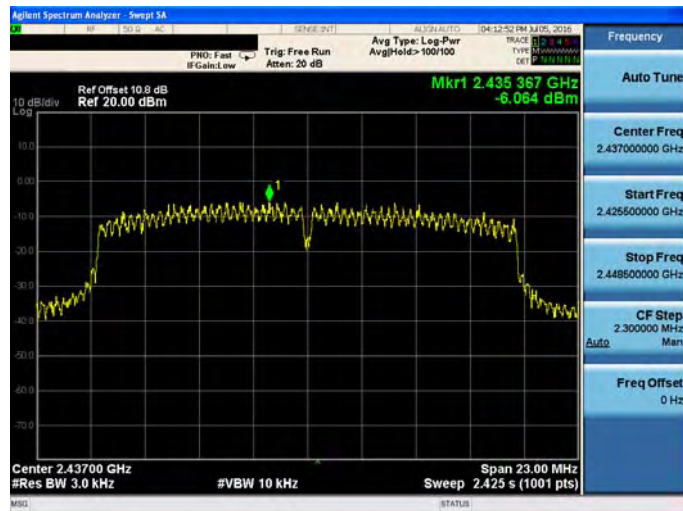


Mode 4: IEEE 802.11n 2.4GHz 20MHz link mode_ANT-2

2412 MHz



2437 MHz



2462 MHz

