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Report Template Version: V05 Report Template Revision Date: 2021-11-03

TEST REPORT

Report No.: Applicant: Address of Applicant:	CQASZ20221001747E-02 Acenew technolongy(Shenzhen) limited company Room 706, 7th floor building G 2 , TCLIinternational City E, No.1001, Zhongshanyuan Road, Xili Street, Nanshan District, Shenzhen
Equipment Under Test	(EUT):
Product:	Neutron 1200 Portable Power Station
Model No.:	AN12-10, AN12-20, AN12-30, AN12-40, AN12-50, AN12-60, AN12-70, AN12-80, AN12-90
Test Model No.:	AN12-10
Brand Name:	acenew
FCC ID:	2A84T-AN12-10
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2022-10-13
Date of Test:	2022-10-13 to 2022-11-21
Date of Issue:	2023-01-14
Test Result :	PASS*
*!	- test the FIT example double the standards are stifted above

*In the configuration tested, the EUT complied with the standards specified above

Tested By: ______ (Lewis ZhOU Timo Loj Reviewed By: (Timo Lei) Approved By: (Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



Revision History Of Report

Report No. Vers		Description	Issue Date
CQASZ20221001747E-02	Rev.01	Initial report	2023-01-14



2 Test Summary

Test Item	Test Requirement	Test method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS	
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS	
Conducted Peak & Average Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS	
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS	
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS	
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS	
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS	
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS	
Restricted bands around fundamental frequency (Radiated Emission)47 CFR Part 15, Subpart C Section 15.205/15.209		ANSI C63.10 2013	PASS	



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4 General Information

4.1 Client Information

Applicant:	Acenew technolongy(Shenzhen) limited company	
Address of Applicant:	Room 706, 7th floor building G 2 , TCLIinternational City E, No.1001, Zhongshanyuan Road, Xili Street, Nanshan District, Shenzhen	
Manufacturer:	Acenew technolongy(Shenzhen) limited company	
Address of Manufacturer:	Room 706, 7th floor building G 2 , TCLIinternational City E, No.1001, Zhongshanyuan Road, Xili Street, Nanshan District, Shenzhen	
Factory:	Huizhou blueway electronics co., ltd	
Address of Factory:	No.101, West Hechang 5th Road, Zhongkai High-Tech Development Zone, Huizhou, Guangdong, P.R.China	

4.2 General Description of EUT

Product Name:	Neutron 1200 Portable Power Station
Model No.:	AN12-10, AN12-20, AN12-30, AN12-40, AN12-50, AN12-60, AN12-70,
	AN12-80, AN12-90
Test Model No.:	AN12-10
Trade Mark:	acenew
Software Version:	V1.0
Hardware Version:	V1.0
Power Supply:	Power by AC 110V
EUT Supports Radios application:	BT: 2402-2480MHz 2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz;

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps
Product Type:	⊠ Mobile □ Portable
Antenna Type:	Chip antenna
Antenna Gain:	1.8dBi



Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

Note:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



4.4 Test Environment and Mode

Operating Environment:	Operating Environment:			
Radiated Emissions:				
Temperature:	25.3 °C			
Humidity:	55 % RH			
Atmospheric Pressure:	1009 mbar			
Conducted Emissions:				
Temperature:	25.6 °C			
Humidity:	60 % RH			
Atmospheric Pressure:	1009 mbar			
Radio conducted item tes	Radio conducted item test (RF Conducted test room):			
Temperature:	25.5 °C			
Humidity:	52 % RH			
Atmospheric Pressure:	1009 mbar			
Test mode:				
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			



4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	1	/

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263



4.8 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8°C	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

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

4.9 Deviation from Standards

None.

4.10 Abnormalities from Standard Conditions

None.

4.11 Other Information Requested by the Customer

None.



4.12 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU40	CQA-075	2022/9/9	2023/9/8
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2022/9/9	2023/9/8
Preamplifier	EMCI	EMC184055SE	CQA-089	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2022/9/9	2023/9/8
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2022/9/9	2023/9/8
Power meter	R&S	NRVD	CQA-029	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2022/9/9	2023/9/8
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
LISN	R&S	ENV216	CQA-003	2022/9/9	2023/9/8
Coaxial cable	CQA	N/A	CQA-C009	2022/9/9	2023/9/8
DC power	KEYSIGHT	E3631A	CQA-028	2022/9/9	2023/9/8

Test software:

	Manufacturer	Software brand
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3



5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is Chip antenna. The best case gain of the antenna is 1.8 dBi.



5.2 Conducted Emissions

510115			
47 CFR Part 15C Section 15.207			
ANSI C63.10: 2013			
150kHz to 30MHz			
	Limit (c	lBuV)	
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	
* Decreases with the logarithn	n of the frequency.		
 5-30 00 50 50 50 50 50 50 50 50 50 50 50 50			
Shielding Room	AE USN2 A Ground Reference Plane	Test Receiver	
	AC Mains	AC Mains	

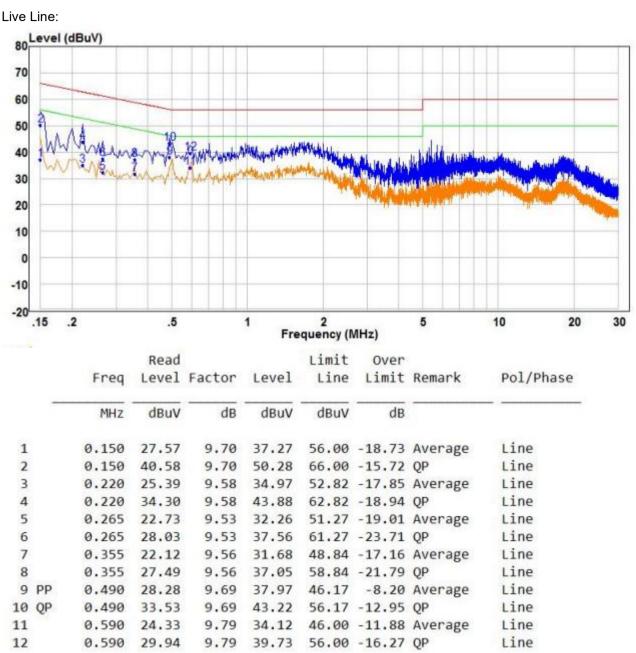


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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass



Measurement Data



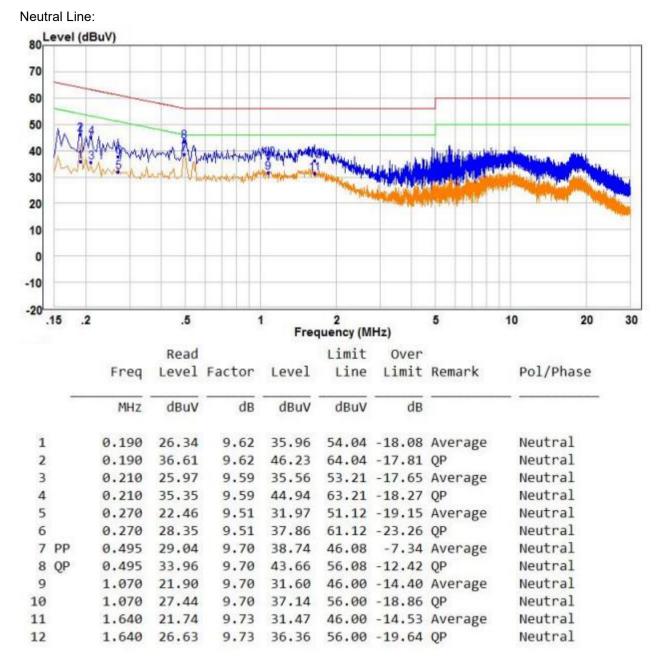
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.





Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



5.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	EUT	Power Meter	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).		
	Only the worst case is recorded in the report.		
Limit:	30dBm		
Test Results:	Pass		

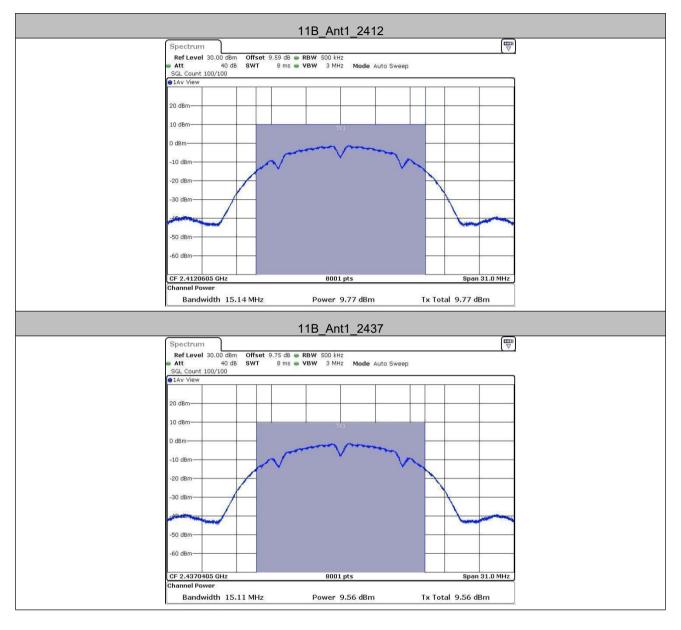


Test Result

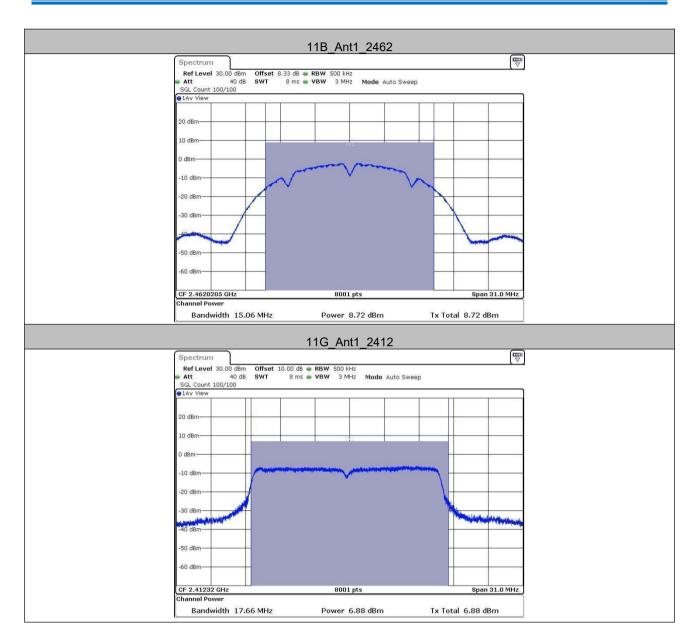
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	9.77	≤30	PASS
11B	Ant1	2437	9.56	≤30	PASS
		2462	8.72	≤30	PASS
		2412	6.88	≤30	PASS
11G	Ant1	2437	9.89	≤30	PASS
		2462	9.68	≤30	PASS
	SO Ant1	2412	9.58	≤30	PASS
11N20SISO		2437	9.04	≤30	PASS
		2462	9.41	≤30	PASS



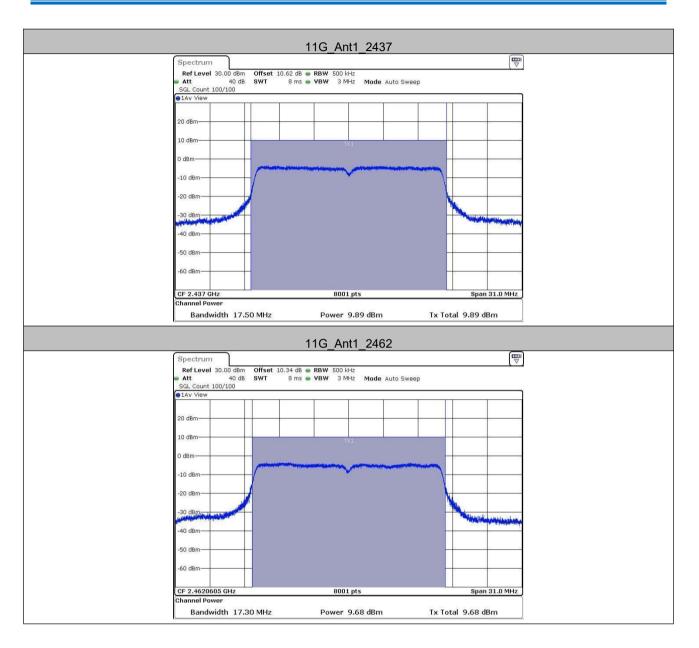
Test Graphs



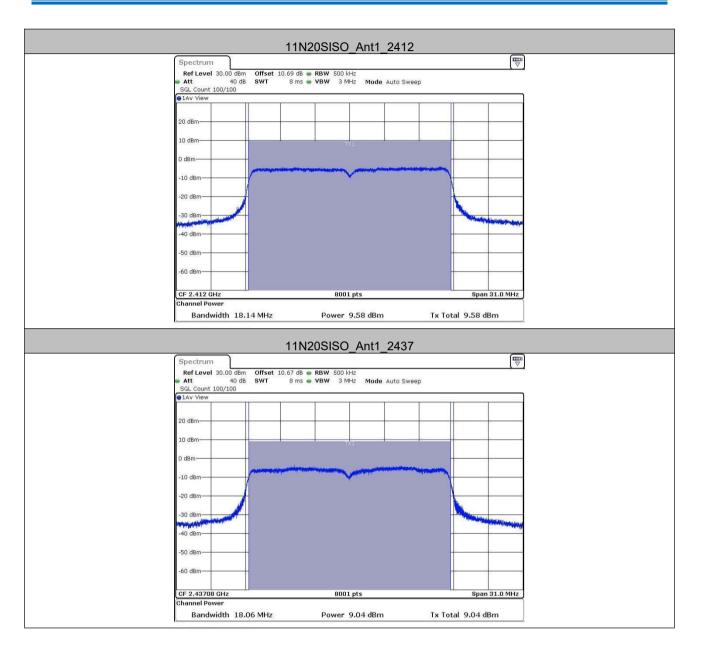




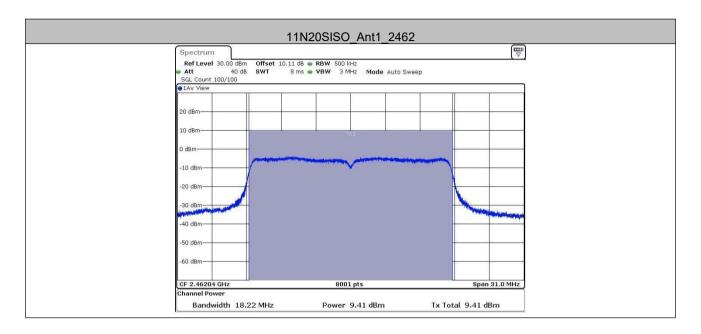














5.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
	Offset=cable loss+ attenuation factor		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report.		
Limit:	≥ 500 kHz		
Test Results:	Pass		

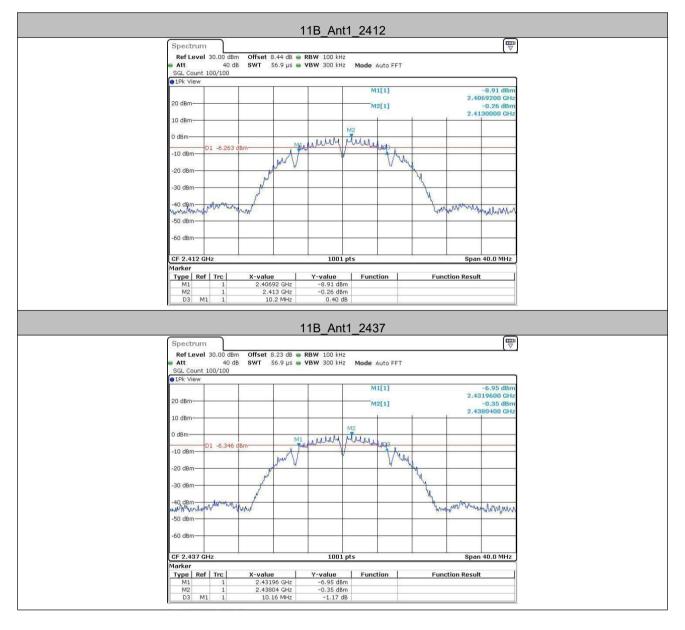


Test Result

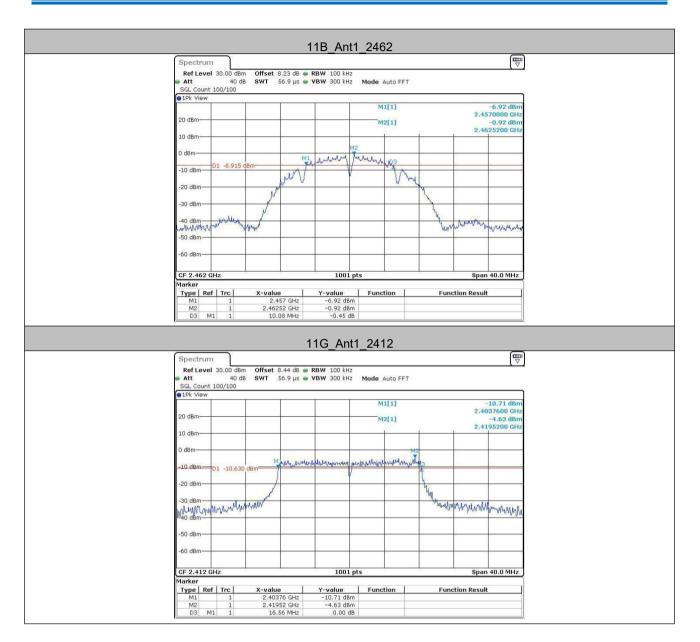
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	10.200	2406.920	2417.120	0.5	PASS
11B	Ant1	2437	10.160	2431.960	2442.120	0.5	PASS
		2462	10.080	2457.000	2467.080	0.5	PASS
		2412	16.560	2403.760	2420.320	0.5	PASS
11G	Ant1	2437	16.640	2428.720	2445.360	0.5	PASS
		2462	16.560	2453.720	2470.280	0.5	PASS
		2412	17.880	2403.120	2421.000	0.5	PASS
11N20SISO	Ant1	2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.680	2453.160	2470.840	0.5	PASS



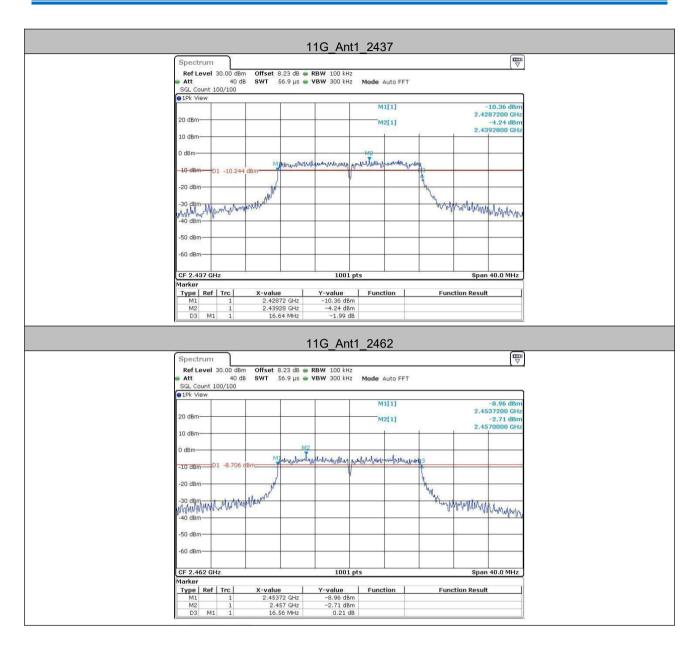
Test Graphs



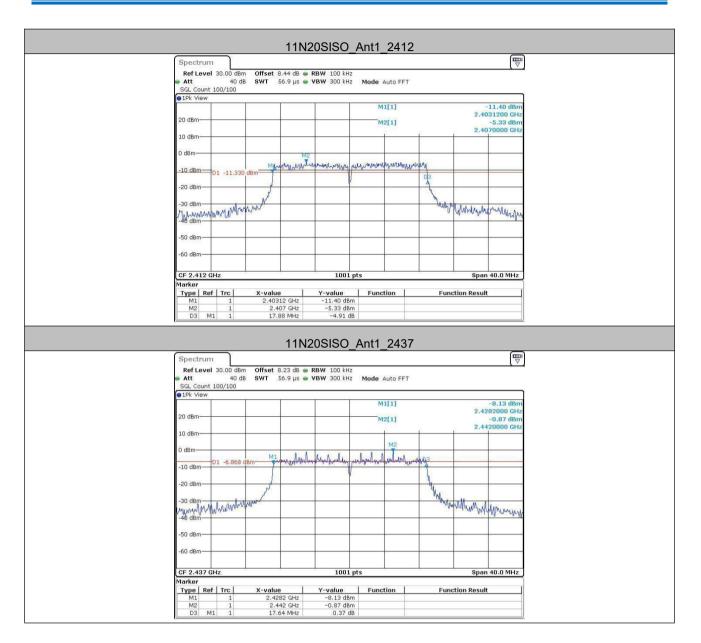




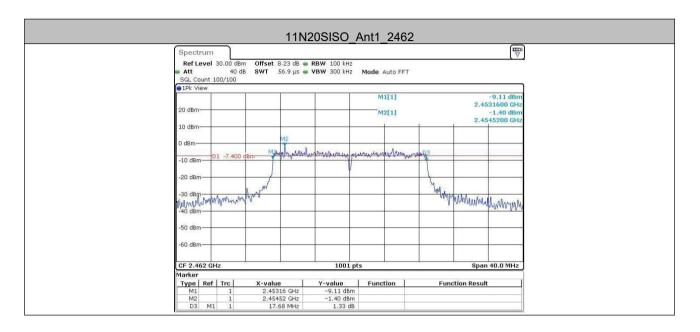














5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Offset=cable loss+ attenuation factor		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report.		
Limit:	≤8.00dBm/3kHz		
Test Results:	Pass		

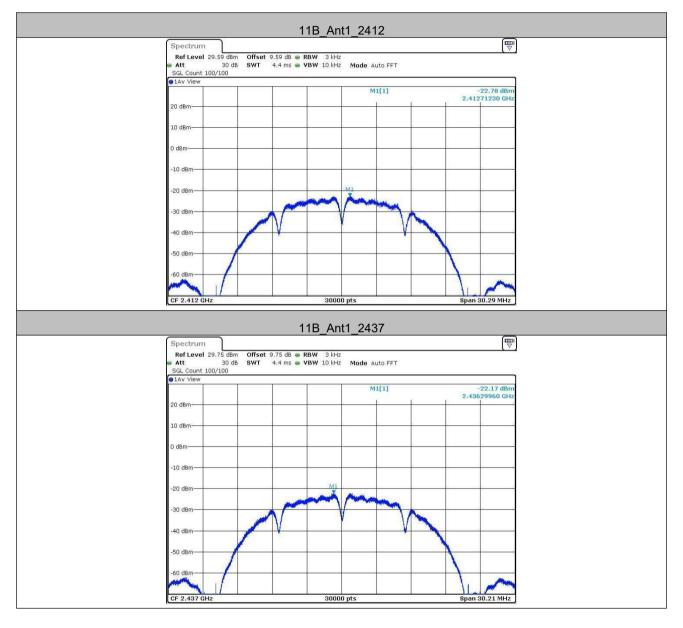


Test Result

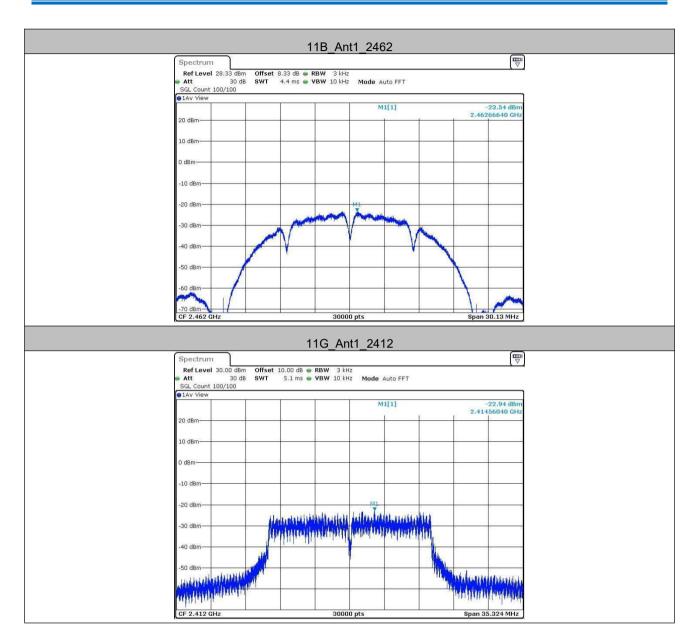
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2412	-22.78	≤8	PASS
11B	Ant1	2437	-22.17	≤8	PASS
		2462	-23.54	≤8	PASS
		2412	-22.94	≤8	PASS
11G	Ant1	2437	-19.12	≤8	PASS
		2462	-20.61	≤8	PASS
		2412	-21.79	≤8	PASS
11N20SISO	Ant1	2437	-21.52	≤8	PASS
		2462	-21.28	≤8	PASS



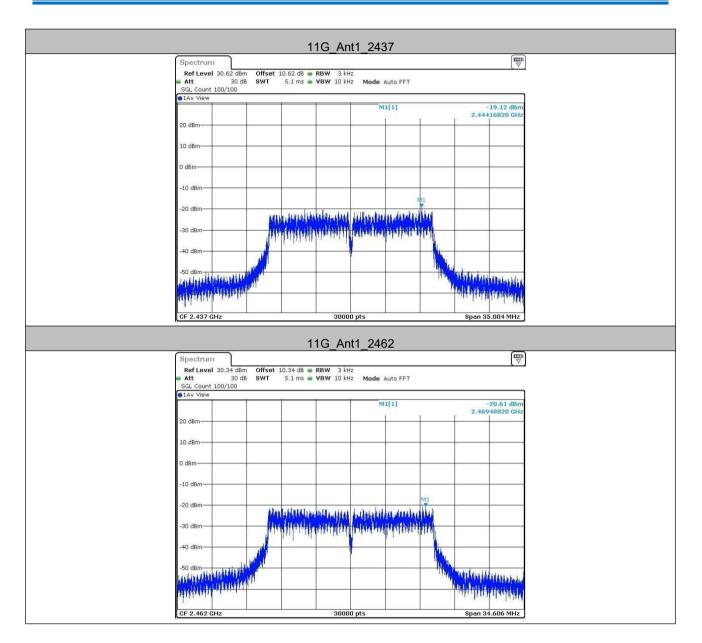
Test Graphs



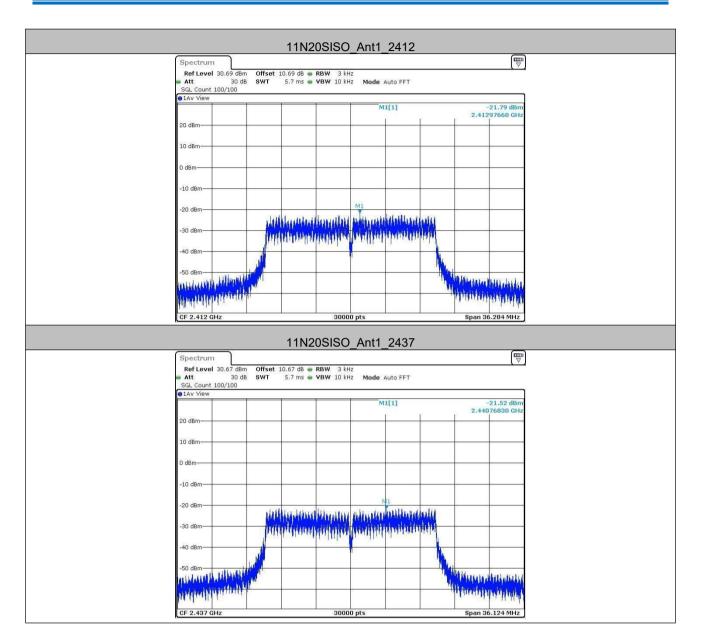




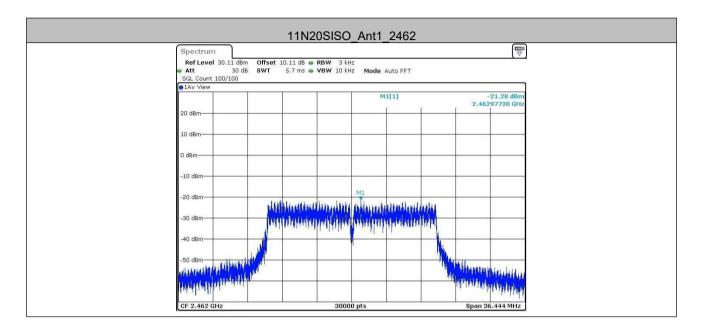














5.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
	Offset=cable loss+ attenuation factor		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
. Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Results:	Pass		

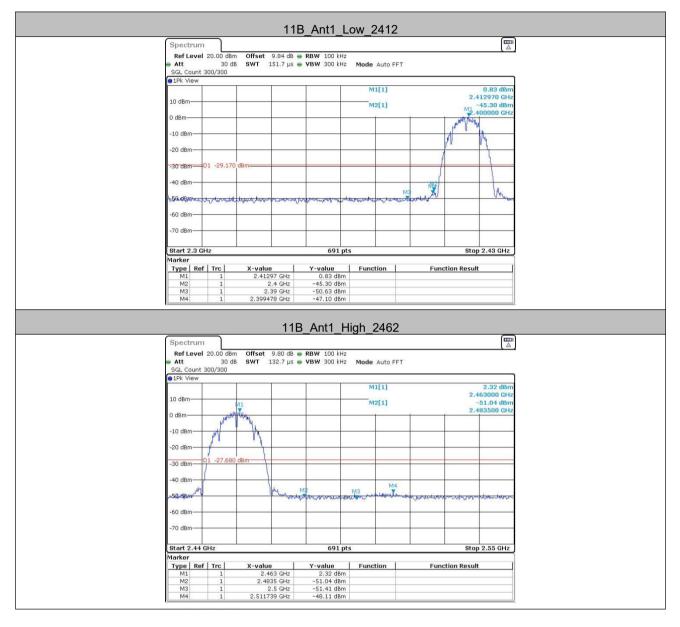


Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B Ant1		Low	2412	0.83	-47.1	≤-29.17	PASS
		High	2462	2.32	-48.11	≤-27.68	PASS
		Low	2412	-2.61	-37.2	≤-32.61	PASS
11G	11G Ant1		2462	-3.63	-47.83	≤-33.63	PASS
		High Low	2412	-2.26	-37.39	≤-32.26	PASS
11N20SISO Ant1		High	2462	-2.23	-47.1	≤-32.23	PASS



5.6.1 Test Graphs













5.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Offset=cable loss+ attenuation factor		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread		
	spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Results:	Pass		

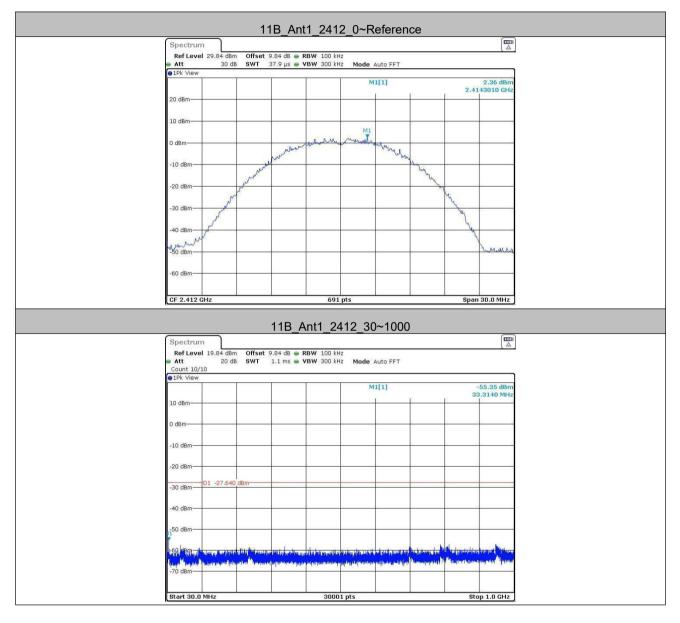


Test Result

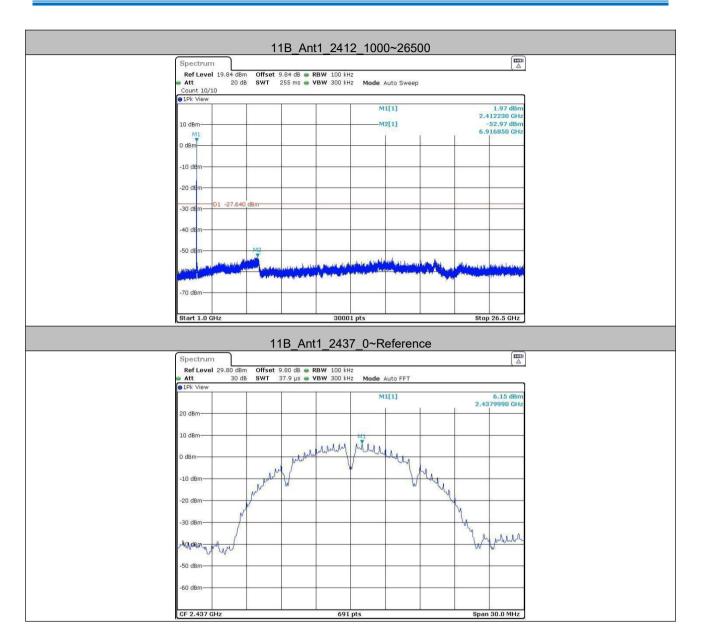
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
			Reference	2.36	2.36		PASS	
		2412	30~1000	2.36	-55.35	≤-27.64	PASS	
			1000~26500	2.36	-52.97	≤-27.64	PASS	
		2437	Reference	6.15	6.15		PASS	
11B	Ant1		30~1000	6.15	-57.23	≤-23.85	PASS	
			1000~26500	6.15	-37.61	≤-23.85	PASS	
		2462	Reference	4.58	4.58		PASS	
			30~1000	4.58	-57.47	≤-25.42	PASS	
			1000~26500	4.58	-41.05	≤-25.42	PASS	
			Reference	-6.99	-6.99		PASS	
		2412	30~1000	-6.99	-57.16	≤-36.99	PASS	
			1000~26500	-6.99	-52.34	≤-36.99	PASS	
		2437	Reference	2.26	2.26		PASS	
11G Ant1	Ant1		30~1000	2.26	-56.54	≤-27.74	PASS	
			1000~26500	2.26	-50.91	≤-27.74	PASS	
		2462	Reference	4.46	4.46		PASS	
			30~1000	4.46	-54.46	≤-25.54	PASS	
			1000~26500	4.46	-53.39	≤-25.54	PASS	
11N20SISO Ant1		2412	Reference	2.60	2.60		PASS	
			30~1000	2.60	-56.97	≤-27.4	PASS	
			1000~26500	2.60	-43.15	≤-27.4	PASS	
			Reference	3.39	3.39		PASS	
	Ant1	2437	30~1000	3.39	-54.95	≤-26.61	PASS	
			1000~26500	3.39	-53.23	≤-26.61	PASS	
		2462	Reference	1.20	1.20		PASS	
			30~1000	1.20	-57.26	≤-28.8	PASS	
				1000~26500	1.20	-49.78	≤-28.8	PASS



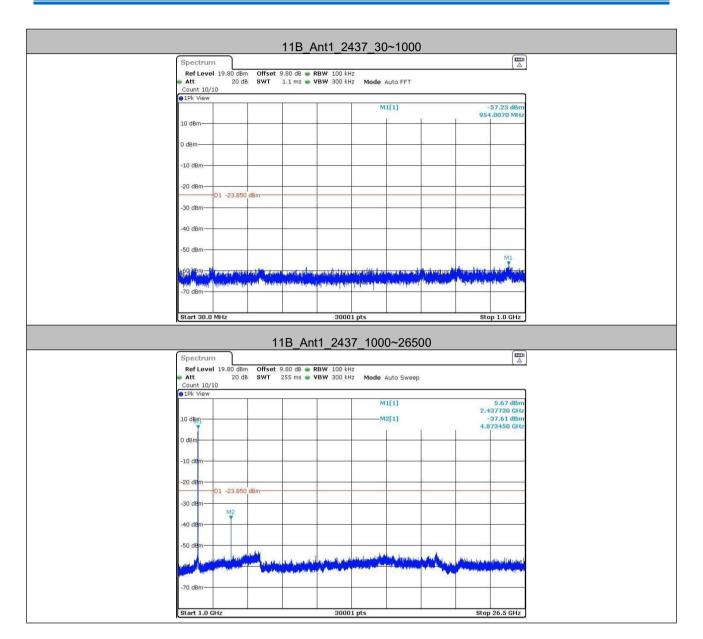
Test Graphs



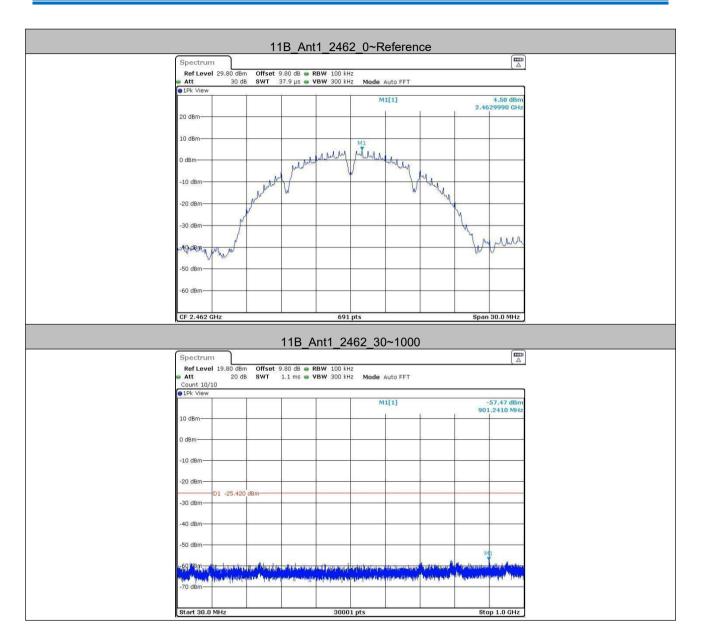




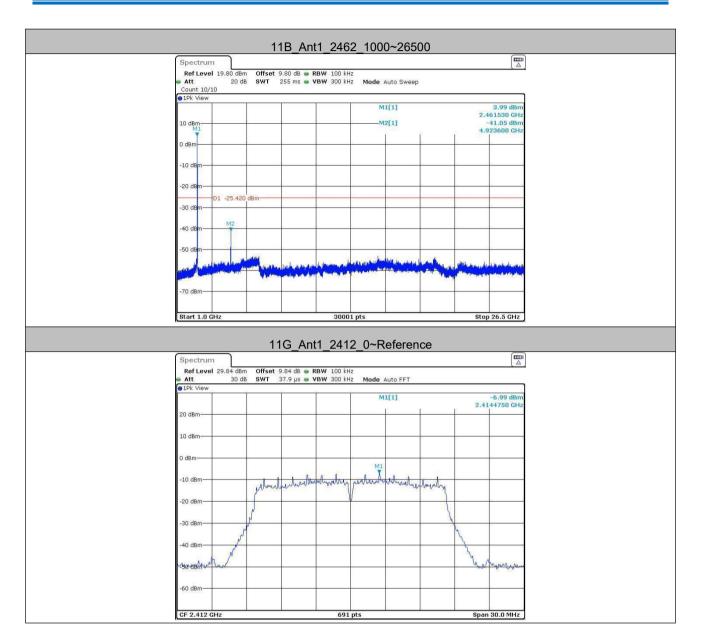




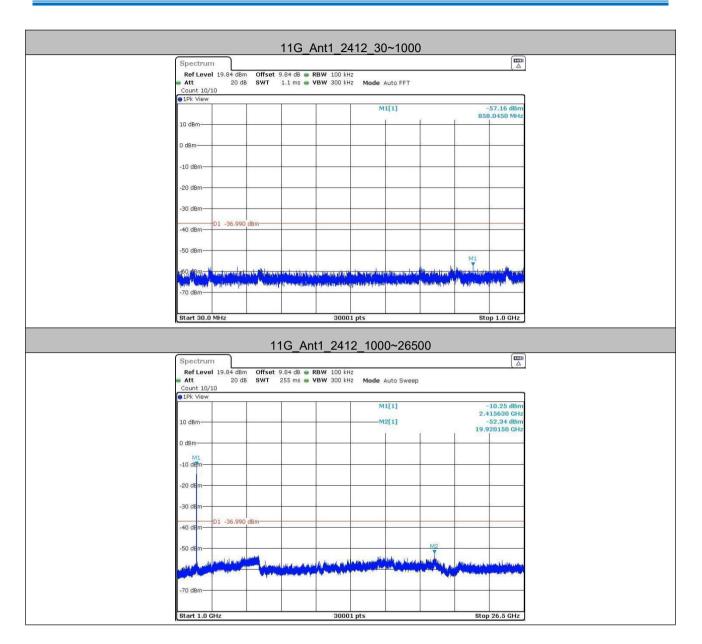




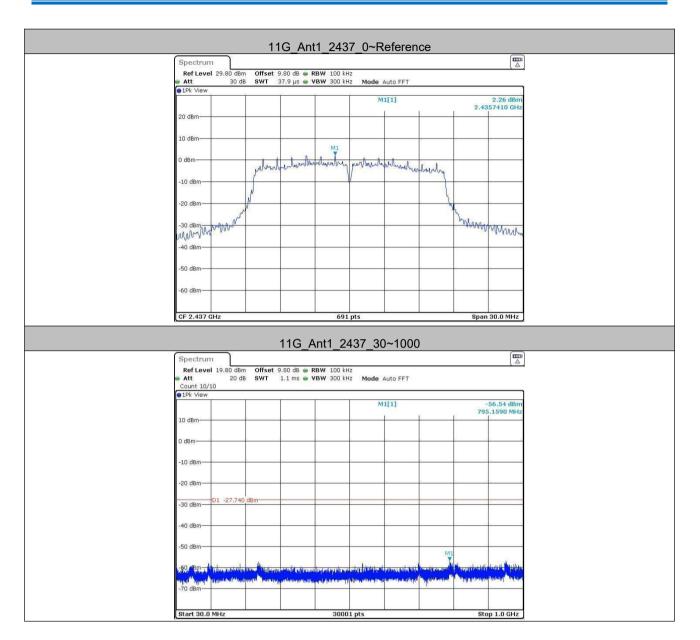




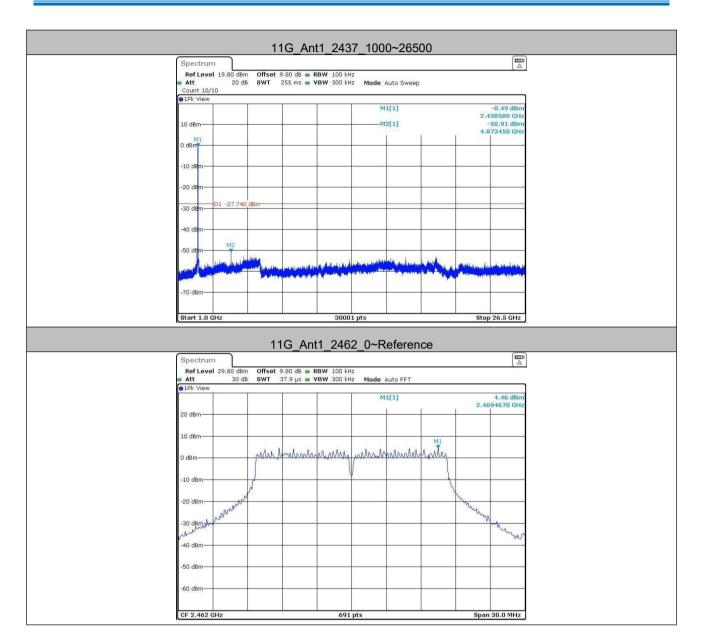




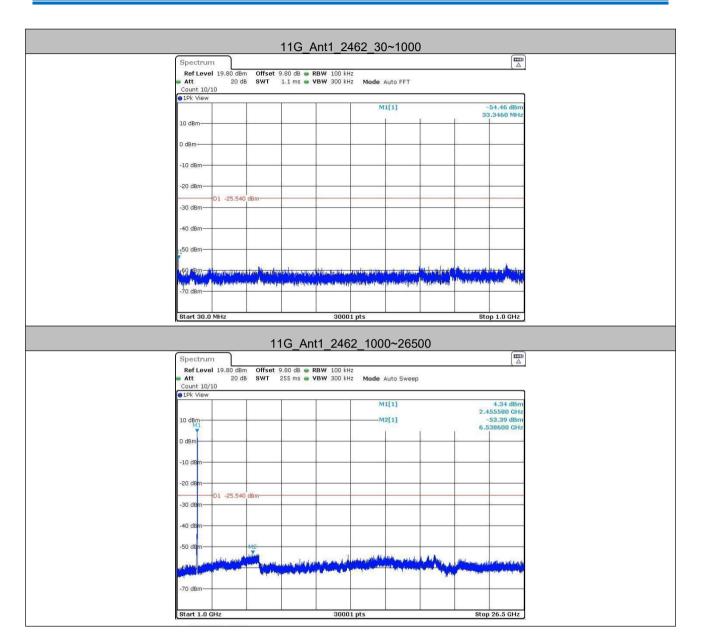




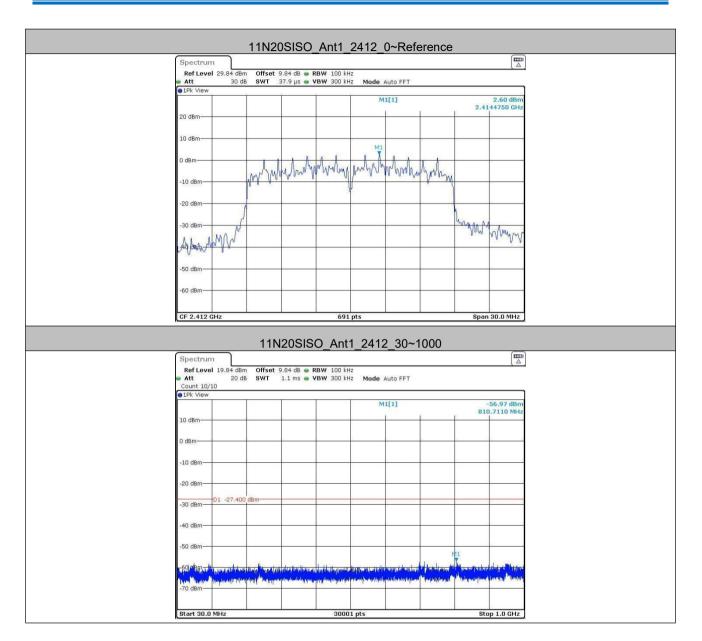




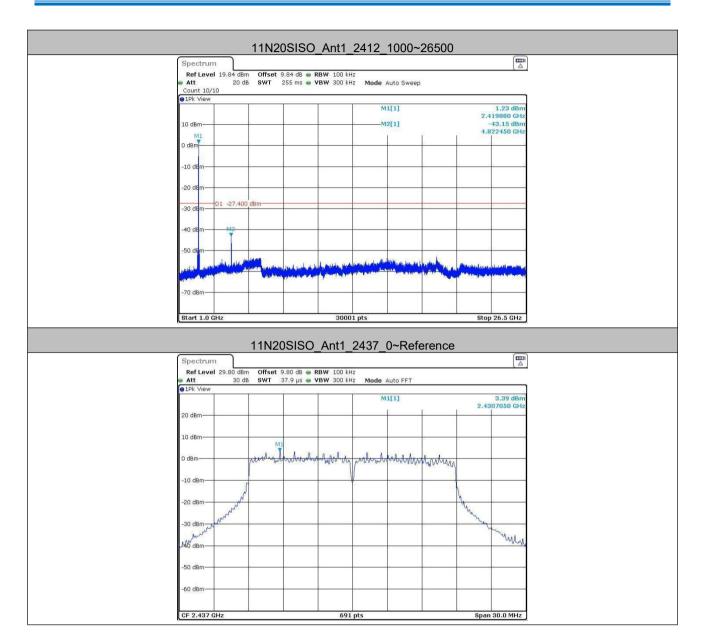




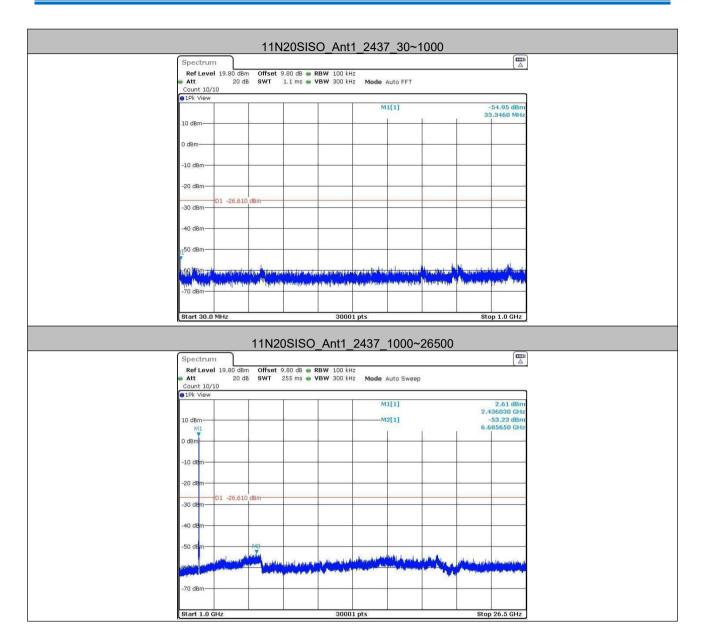




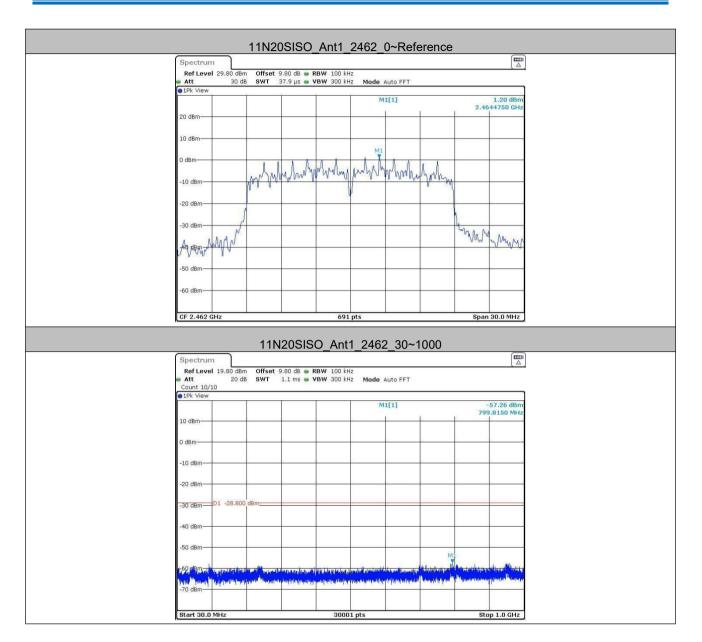




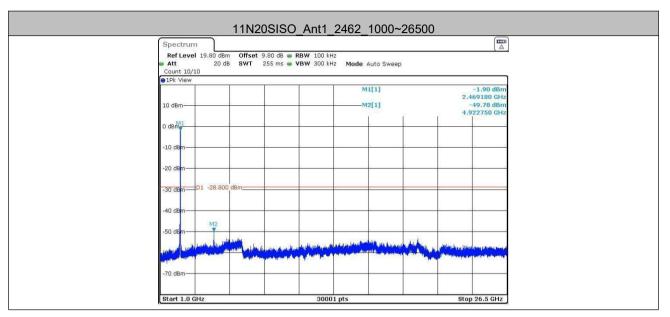












Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

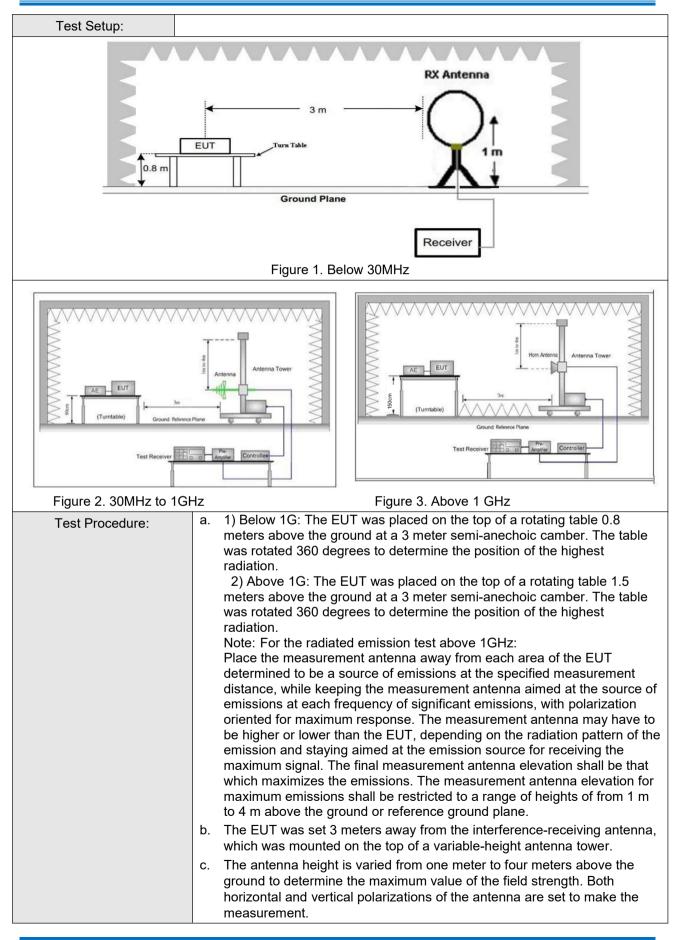


5.8 Radiated Spurious Emissions

-					
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
		Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	1.705MHz-30MHz 30		-	30
	30MHz-88MHz	30MHz-88MHz 100		Quasi-peak	3
	88MHz-216MHz 150 216MHz-960MHz 200 960MHz-1GHz 500 Above 1GHz 500		43.5	Quasi-peak	3
			46.0	Quasi-peak	3
			54.0	Quasi-peak	3
			54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total per- emission level radiated by the device.				ssion limit



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	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.		
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.		
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.		
	g. Test the EUT in the lowest channel, the middle channel, the Highest channel.		
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case .		
	i. Repeat above procedures until all frequencies measured was complete.		
Exploratory Test Mode:	: Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.		
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case.		
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).		
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case.		
	Only the worst case is recorded in the report.		
Test Results:	Pass		