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Report Template Version: V04 Report Template Revision Date: 2018-07-06

Test Report

Report No.: CQASZ20210500031EX-01

Applicant:SHENZHEN POWEROAK NEWENER CO., LTDAddress of Applicant:Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshan District,
Shenzhen City, Guangdong Province, P.R.ChinaManufacturer:SHENZHEN POWEROAK NEWENER CO., LTDAddress of
Manufacturer:Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshan District,
Shenzhen City, Guangdong Province, P.R.China

Equipment Under Test (EUT):

Product:	Portable Power Station
All Model No.:	EP500
Test Model No.:	EP500
Brand Name:	1
FCC ID:	2AYT3-EP500
Standards:	47 CFR FCC Part 15 Subpart C 15.247
Date of Test:	May 25, 2021 – Jun. 10, 2021
Date of Issue:	Jun. 10, 2021
Test Result :	PASS

Tested By:	lewis zhou	7100
	(Lewis Zhou)	STREETING TOP
Reviewed By: _	Timo Loj	COA
	(Timo Lei)	上学夏准测
	Sheek, Luc	APPROVED
Approved By:		
	(Sheek Luo)	

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

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)



1 Version

Revision History Of Report

Report No. Version		Description	Issue Date	
CQASZ20210500031EX-01	Rev.01	Initial report	Jun. 10, 2021	



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: SHENZHEN POWEROAK NEWENER CO., LTD	
Address of Applicant: Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshar District, Shenzhen City, Guangdong Province, P.R.China	
Manufacturer: SHENZHEN POWEROAK NEWENER CO., LTD	
Address of Manufacturer:	Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshan District, Shenzhen City, Guangdong Province, P.R.China

4.2 General Description of EUT

Product Name:	Portable Power Station		
Test Model No.:	EP500		
Trade Mark:	1		
Hardware Version:	V1.0		
Software Version:	1		
On another Francisco and	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz		
Operation Frequency:	IEEE 802.11n(H40): 2422MHz~2452MHz		
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7		
Channel Separation:	5MHz		
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM		
Type of Modulation.	IEEE for 802.11n(HT20): OFDM		
	IEEE for 802.11n(HT40): OFDM		
Product Type:	Mobile Portable Fix Location		
Antenna Type	PCB antenna		
Antenna Gain	0dBi		
	DC 51.2V from battery 5120Wh 100Ah		
	Input : 100-120VAC 50/60Hz 15A max DC55-145VDC 20AMAX		
Power Supply:	Output: AC*4: 100-120VAC 50/60Hz, 2000W Total Aviation Sockets*1: 12VDC, 30A USB-A*1: 5VDC, 2A, USB-A*1: 5VDC ,1A, USB-A*2: 5VDC, 2A, 9VDC,2A ,12VDC 1.5A USB-C*1: 5V-15VDC 3A 20VDC 5A Cigarette lighter*1: 12VDC, 10A DC 5521*2: 12VDC, 10A Wireless Charging*2: 5/7.5/10/15W Total		

Note: 1. This report is only for 2.4GHz WIFI

2. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Channel Frequency Channel Frequency Channel Frequency Channel Freque						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

For	802.11n	
Channel	Frequency	
The Lowest channel	2422MHz	
The Middle channel	2437MHz	
The Highest channel	2452MHz	

(HT40):

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

4.3 Test Environment

Operating Environment:			
Conduction emiss	Conduction emission		
Temperature:		23 °C	
Humidity:		51 % RH	
Atmospheric Pressu	ure:	992mbar	
Radiated Emission	n (Normal Cond	litions)	
Temperature:		25.1 °C~25.5 °C	
Humidity:		51 % RH~55 % RH	
Atmospheric Pressure:		992mbar	
RF item test (RF test room Normal Conditions)			
Temperature:		26 °C~27.3 °C	
Humidity:		58 % RH~59 % RH	
Atmospheric Pressure:		992mbar	
Transmitting mode:	Use test softw	are to set the lowest frequency, the middle frequency and the	
	highest frequency keep transmitting of the EUT.		



Note: In the process of transmitting of EUT, the duty cycle > 98%.

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	certification
/	/	/	1	/
/	/	1	1	/

4.5 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

4.6 Test Facility

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

ISED Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• 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



4.7 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.

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



4.11 Equipment List

					1
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/9/22	2021/9/21
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/24	2021/10/23
Spectrum analyzer	keysight	N9020A	CQA-105	2020/10/24	2021/10/23
Preamplifier	MITEQ	AFS4-00010300-18-10P- 4	CQA-035	2020/9/22	2021/9/21
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2018/11/2	2019/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2018/10/28	2020/10/27
Bilog Antenna	R&S	HL562	CQA-011	2020/9/22	2021/9/21
Horn Antenna	R&S	HF906	CQA-012	2020/9/22	2021/9/21
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/9/22	2021/9/21
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2020/9/22	2021/9/21
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2020/9/22	2021/9/21
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/22	2021/9/21
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/22	2021/9/21
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2020/9/22	2021/9/21
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2020/9/22	2021/9/21
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/22	2021/9/21
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/9/22	2021/9/21
LISN	R&S	ENV216	CQA-003	2021/11/1	2021/10/30
Coaxial cable	CQA	N/A	CQA-C009	2020/9/22	2021/9/21

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



5 Test results and Measurement Data

5.1 Antenna Requirement

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

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.





5.2 Conducted Emissions

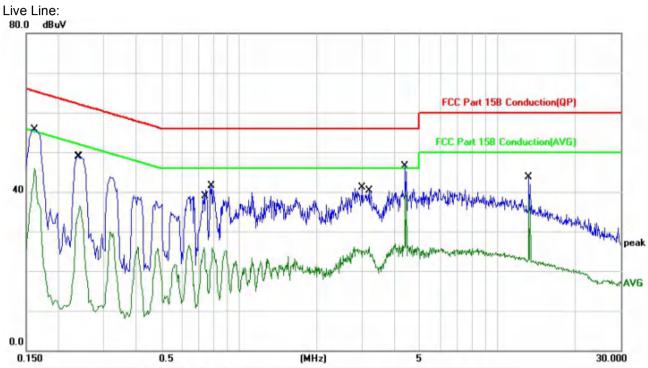
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
		Limit (c	dBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
Limit:	0.15-0.5	66 to 56*	56 to 46*			
Liitiit.	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.	<u> </u>			
Test Procedure:	 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 					
Test Setup:	Shielding Room	AE USN2 AC Ground Reference Plane	Test Receiver			
Exploratory Test Mode:	Transmitting with all kind of highest channel.	modulations, data rate	es at lowest, middle and			



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Final Test Mode:	All wifi modes were tested at Low, Middle, and High channel; only the worst result of 802.11g- CH6 was reported as below
Test Voltage:	AC120V/60Hz
Test Results:	Pass

Measurement Data



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1620	55.89	-0.13	55.76	65.36	-9.60	QP	
2	0.1620	46.09	-0.13	45.96	55.36	-9.40	AVG	
3	0.2380	49.07	-0.11	48.96	62.16	-13.20	QP	
4	0.2420	36.67	-0.11	36.56	52.02	-15.46	AVG	
5	0.7340	25.99	-0.06	25.93	46.00	-20.07	AVG	
6	0.7820	41.50	-0.07	41.43	56.00	-14.57	QP	
7	3.0059	41.31	-0.18	41.13	56.00	-14.87	QP	
8	3.1740	26.26	-0.18	26.08	46.00	-19.92	AVG	
9	4.3940	46.62	-0.21	46.41	56.00	-9.59	QP	
10 *	4.3940	40.29	-0.21	40.08	46.00	-5.92	AVG	
11	13.2140	43.94	-0.15	43.79	60.00	-16.21	QP	
12	13.2140	39.05	-0.15	38.90	50.00	-11.10	AVG	

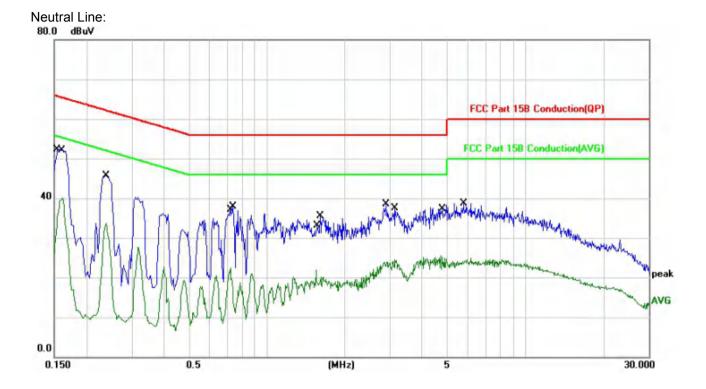
Remark:

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.





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		11.
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1539	52.50	-0.13	52.37	65.78	-13.41	QP	
2		0.1620	40.32	-0.13	40.19	55.36	-15.17	AVG	
3		0.2380	45.74	-0.11	45.63	62.16	-16.53	QP	
4		0.2380	33.77	-0.11	33.66	52.16	-18.50	AVG	
5		0.7220	22.52	-0.06	22.46	46.00	-23.54	AVG	
6		0.7380	37.87	-0.06	37.81	56.00	-18.19	QP	
7		1.5500	22.09	-0.19	21.90	46.00	-24.10	AVG	
8		1.6060	35.76	-0.20	35.56	56.00	-20.44	QP	
9	_	2.8900	38.70	-0.18	38.52	56.00	-17.48	QP	
10		3.1380	24.77	-0.18	24.59	46.00	-21.41	AVG	
11		4.7020	25.62	-0.21	25.41	46.00	-20.59	AVG	
12		5.7700	38.99	-0.24	38.75	60.00	-21.25	QP	
-									

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); 13.5Mbps of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.		
Limit:	30dBm		
Test Results:	Pass		

WIFI

Туре	Test channel	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Result
	Lowest	6.64	3.47		
802.11b	Middle	7.59	4.19	30.00	Pass
	Highest	7.98	4.45		
	Lowest	7.65	3.59		
802.11g	Middle	8.46	4.59	30.00	Pass
_	Highest	6.34	3.48		
	Lowest	6.98	4.12		
802.11n(HT20)	Middle	7.67	4.53	30.00	Pass
	Highest	5.42	3.54		
	Lowest	5.96	3.47		
802.11n(HT40)	Middle	6.35	3.24	30.00	Pass
	Highest	6.59	3.52		



5.4 6dB Occupy Bandwidth

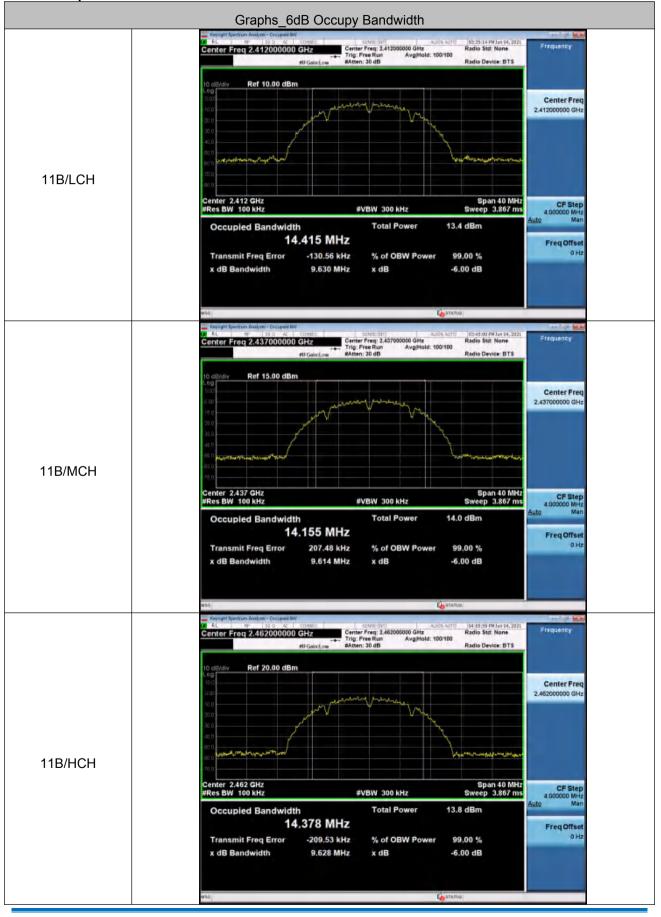
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10: 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
	Offset=cable loss+ attenuation factor			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, find the 11Mbps 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); 13.5Mbps of rate is the worst case of 802.11n(HT40);			
	Only the worst case is recorded in the report.			
Limit:	≥ 500 kHz			
Test Results:	Pass			

Measurement Data

Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
	Lowest	9.630		
802.11b	Middle	9.614	≥500	Pass
	Highest	9.628		
	Lowest	16.606		
802.11g	Middle	16.520	≥500	Pass
	Highest	16.543		
	Lowes	17.841		
802.11n(HT20)	Middle	17.759	≥500	Pass
	Highest	17.794		
	Lowest	36.552		
802.11n(HT40)	Middle	36.049	≥500	Pass
	Highest	35.786		



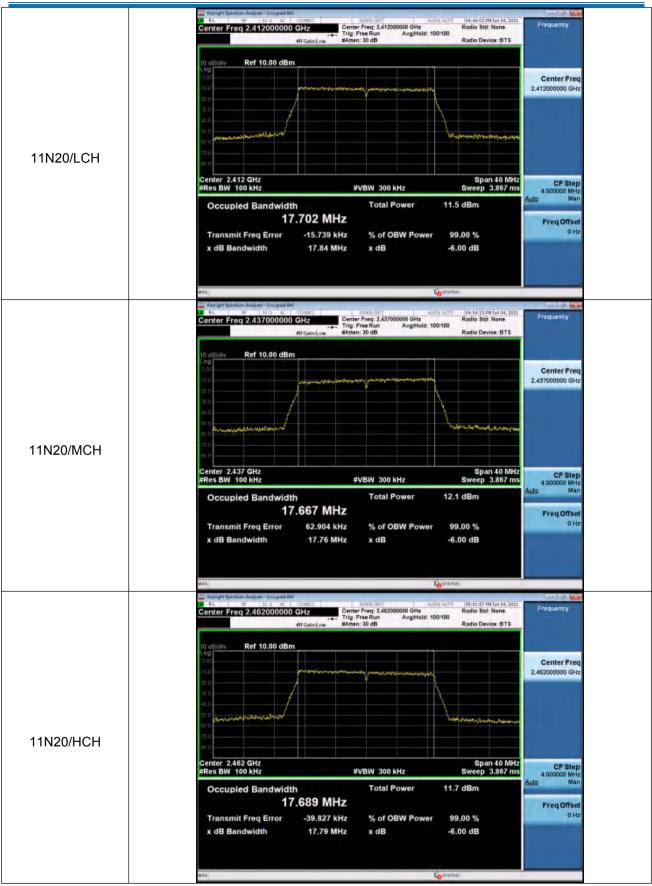
Test plot as follows:









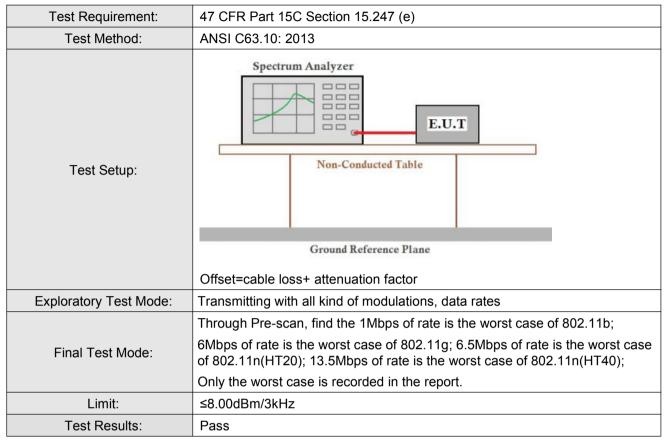








5.5 Power Spectral Density





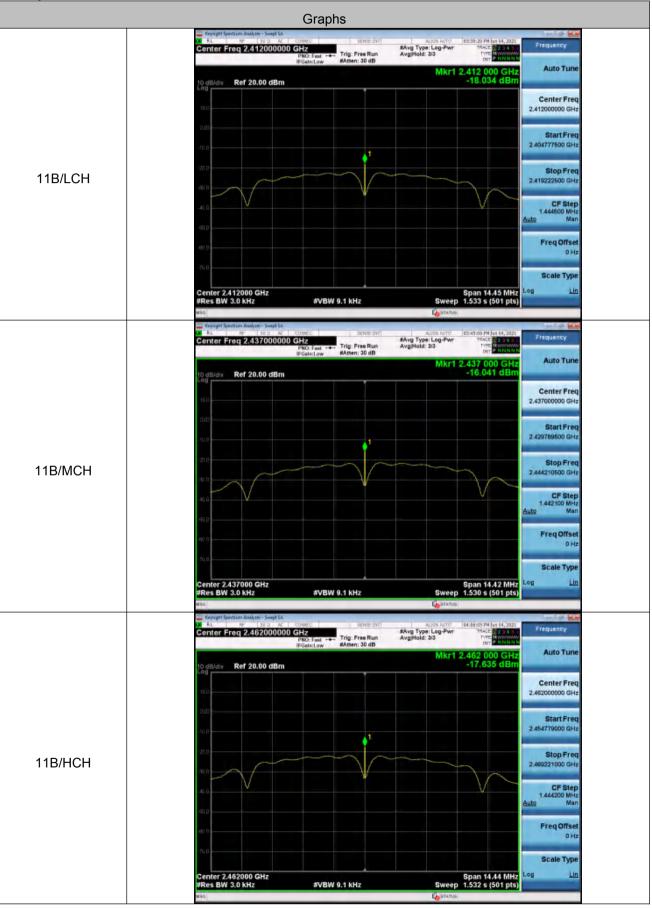
Measurement Data

Туре	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
	Lowes	-18.034		
802.11b	Middle	-16.041	8	Pass
	Highest	-17.635		
	Lowest	-21.356		
802.11g	Middle	-21.720	8	Pass
	Highest	-22.516		
	Lowest	-22.640		
802.11n(HT20)	Middle	-21.856	8	Pass
	Highest	-21.983		
	Lowest	-24.221		
802.11n(HT40)	Middle	-22.406	8	Pass
	Highest	-22.603		

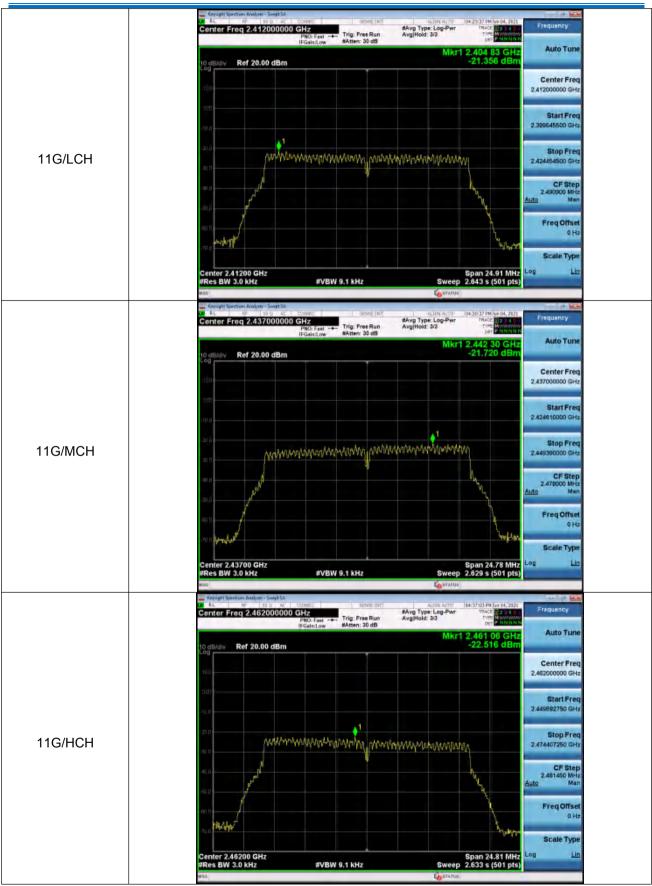


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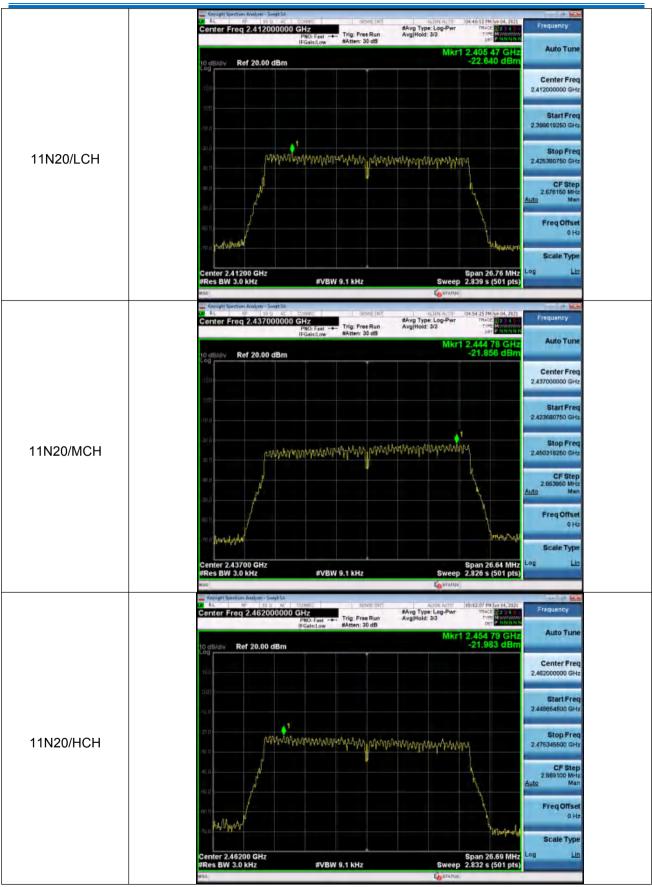
Test plot as follows:





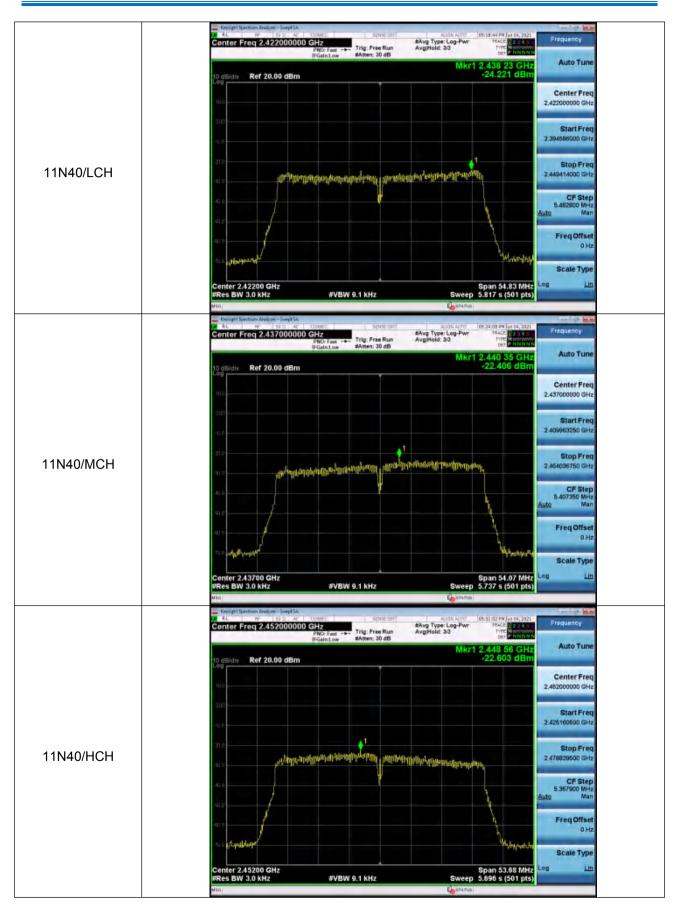












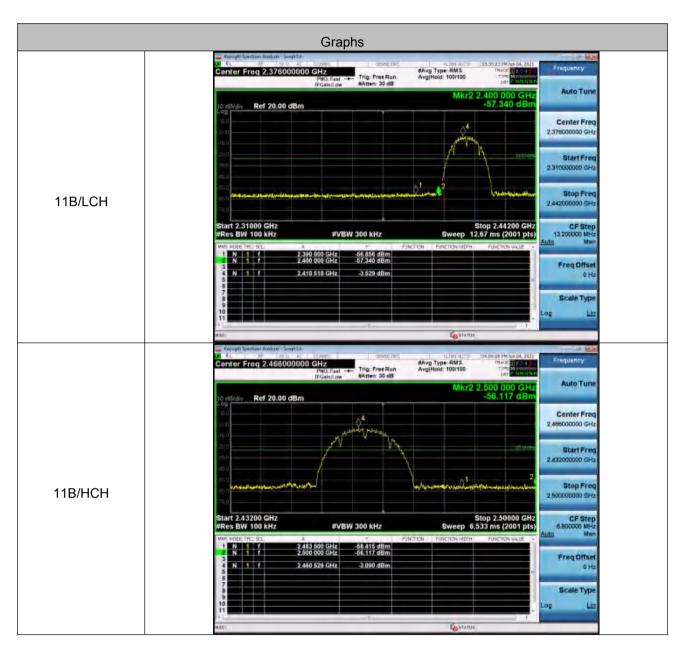


5.6 Band-edge for RF Conducted Emissions

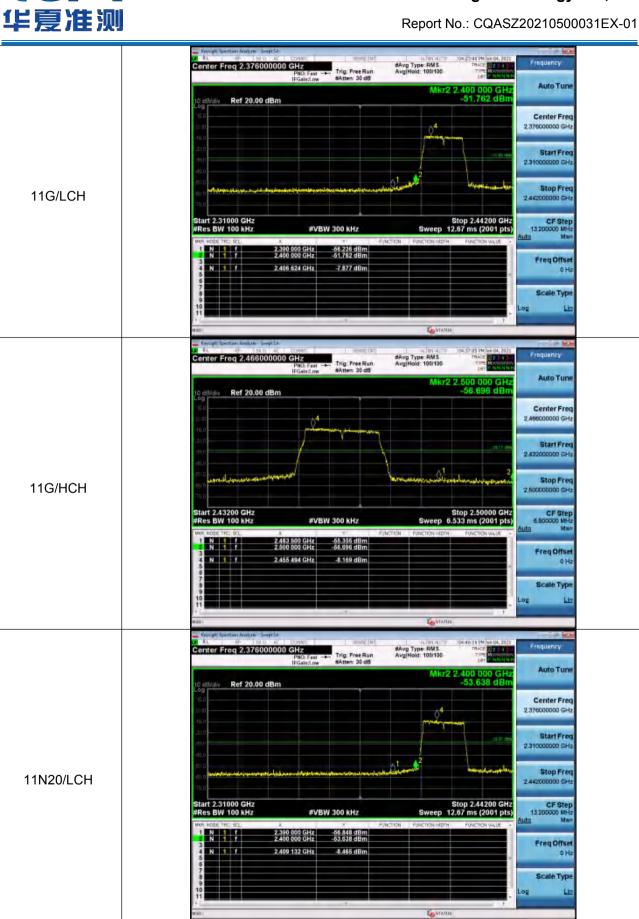
Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Offset=cable loss+ attenuation factor		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40); 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 plot as follows:

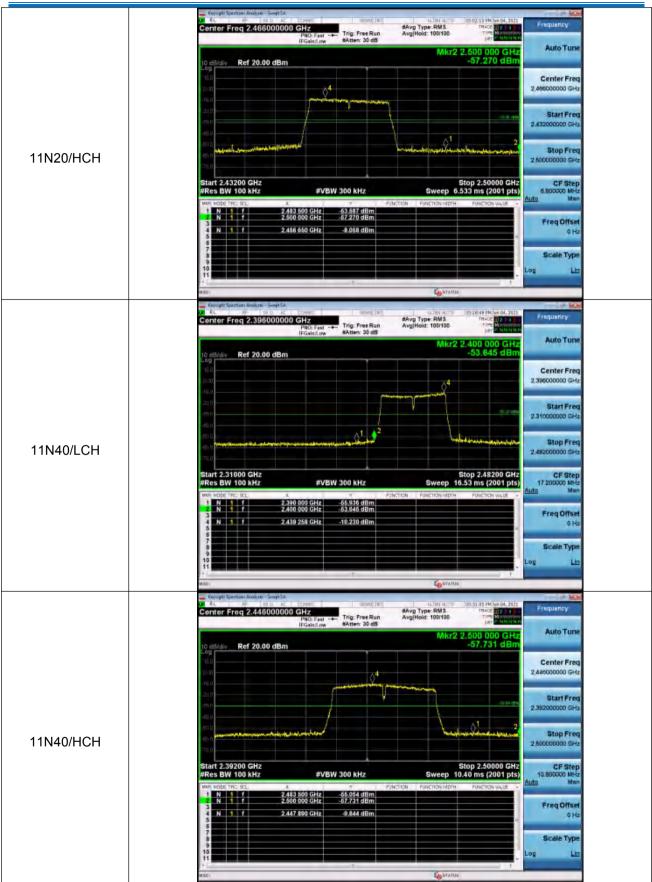














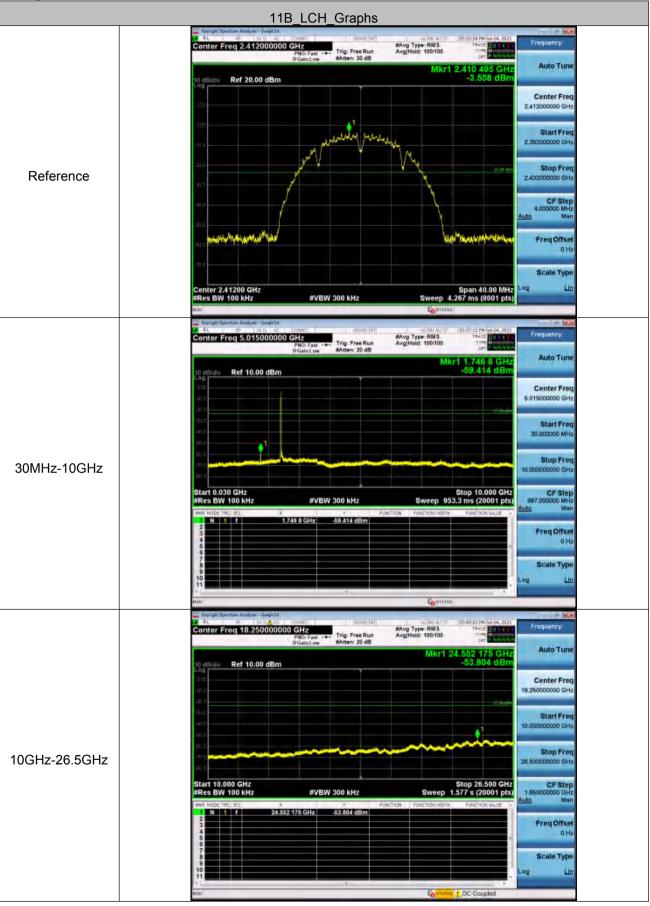
5.7 RF Conducted Spurious Emissions

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); 13.5Mbps of rate is the worst case of 802.11n(HT40); 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

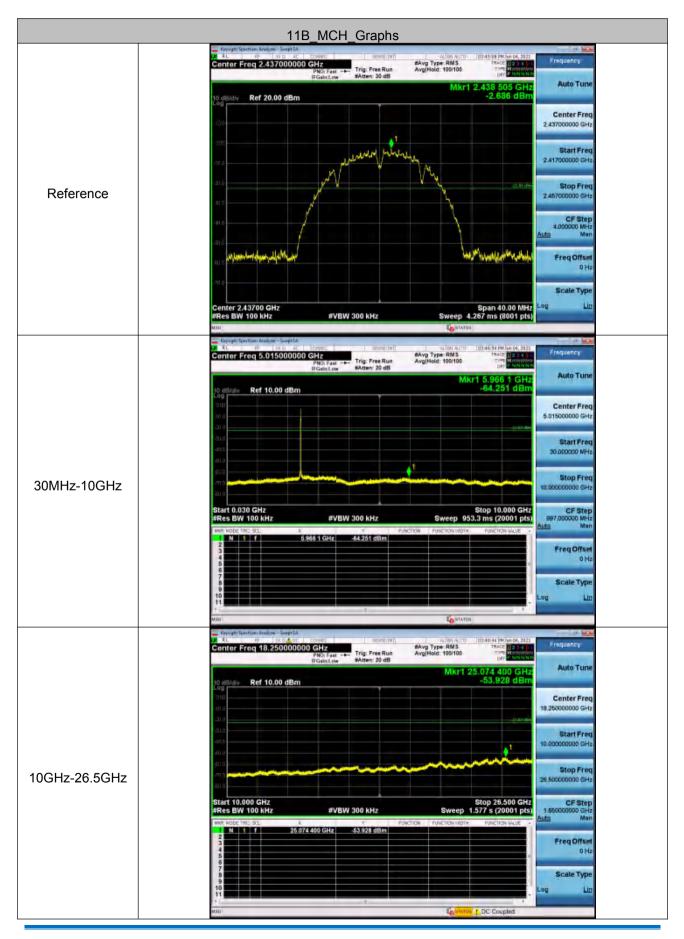


Report No.: CQASZ20210500031EX-01

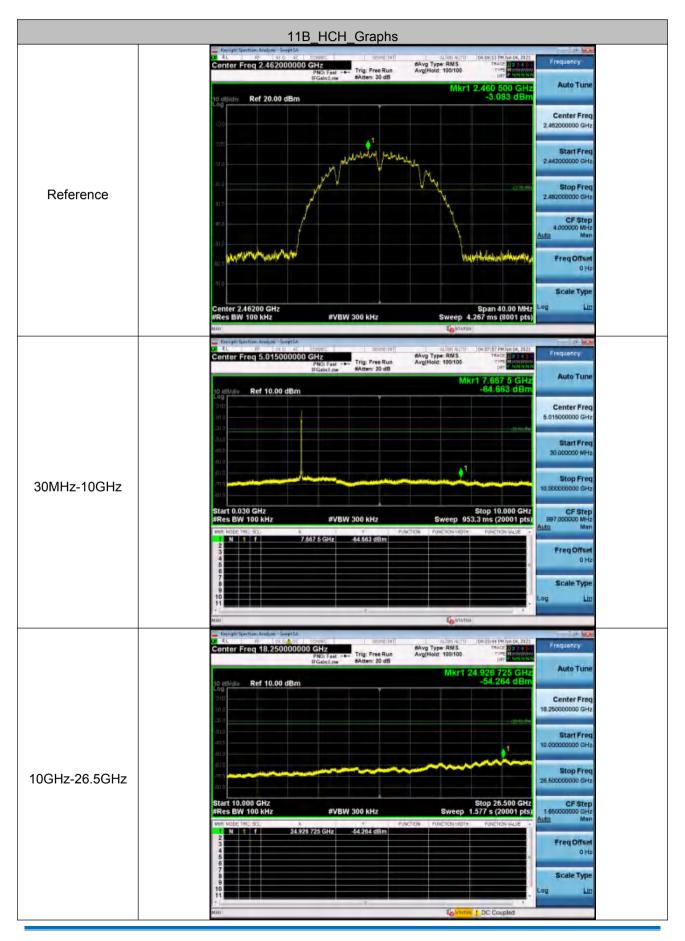
Test plot as follows:



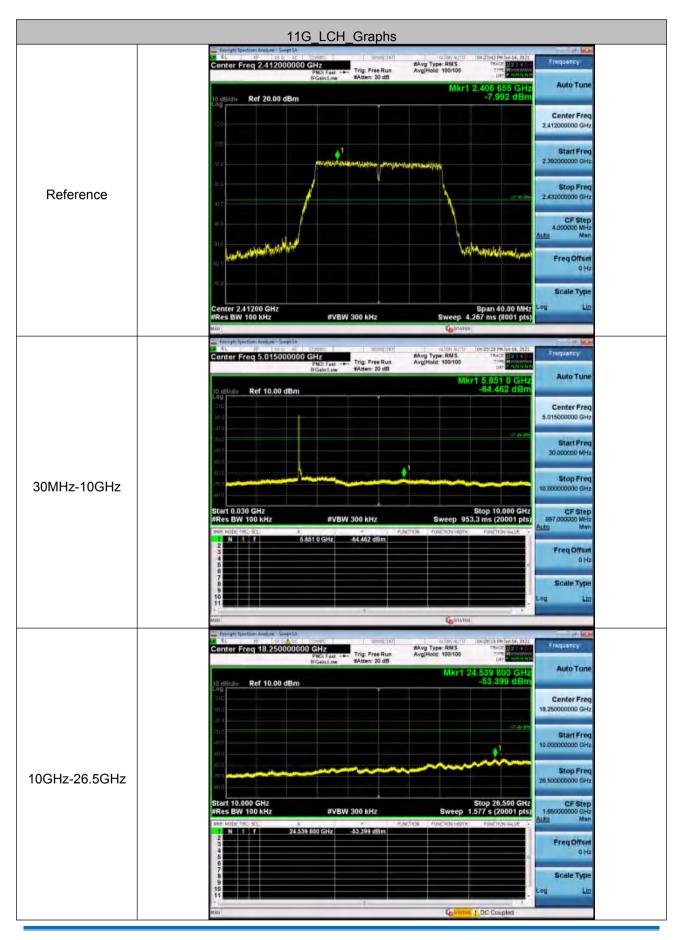




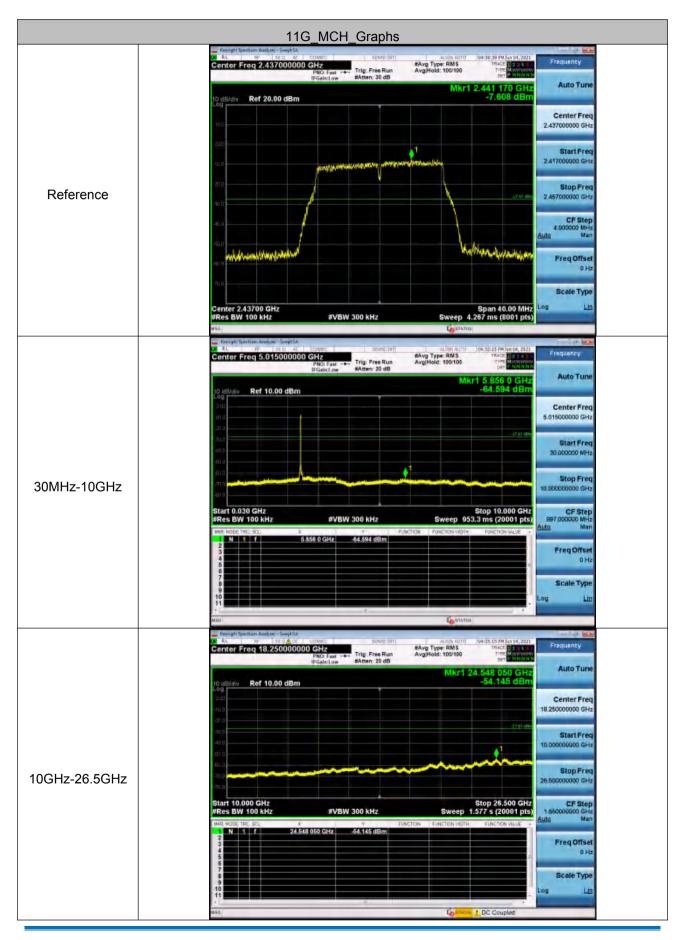




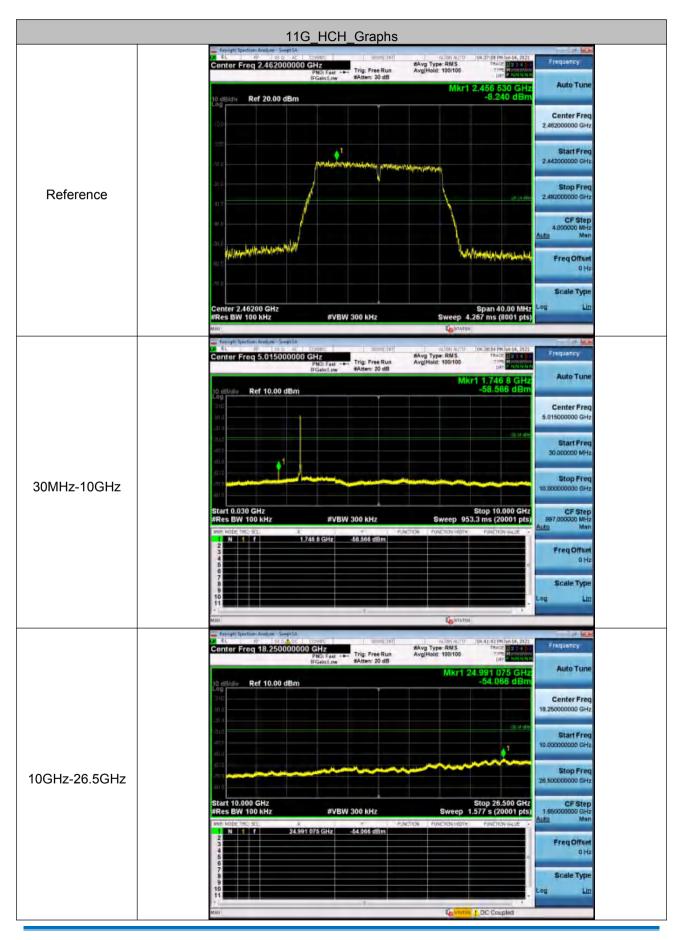




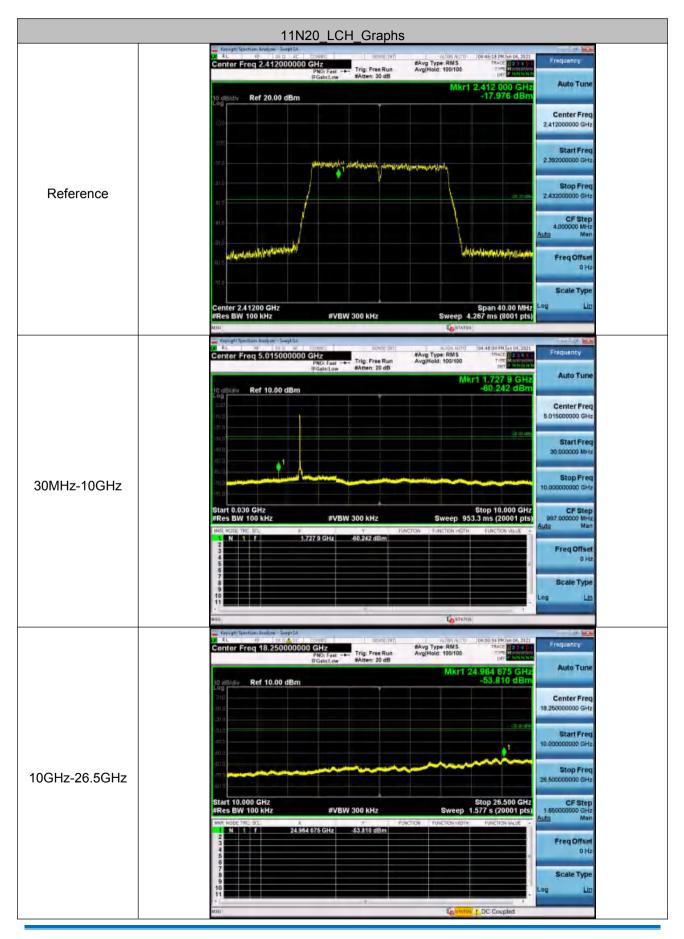




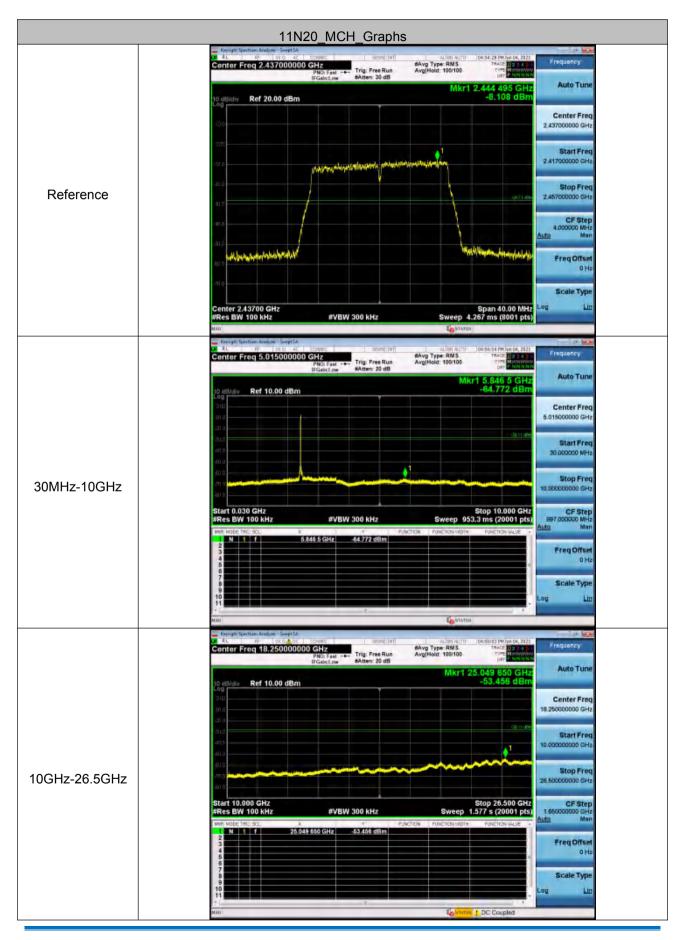








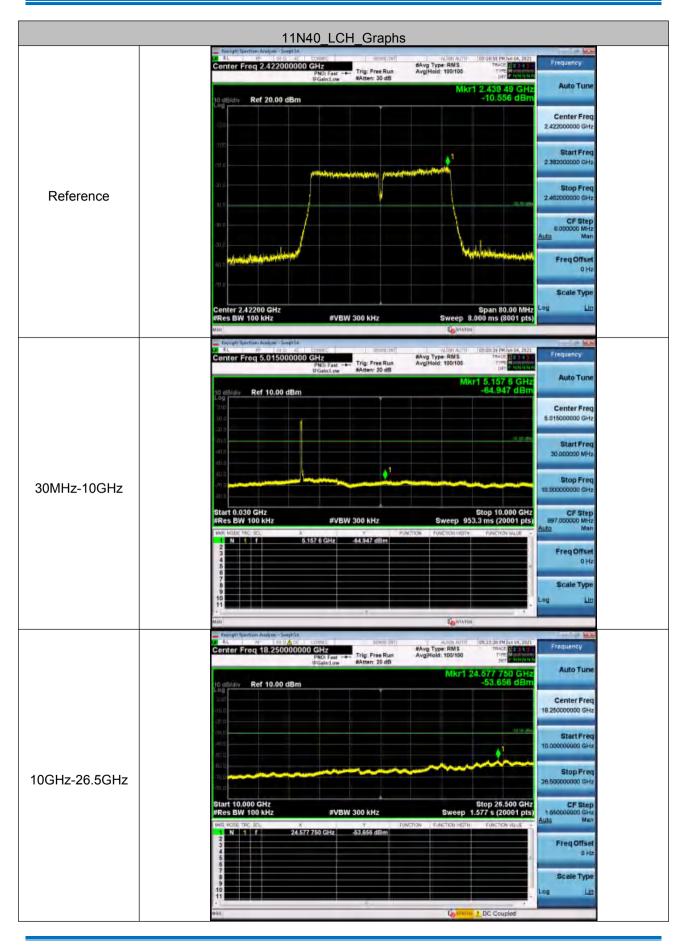




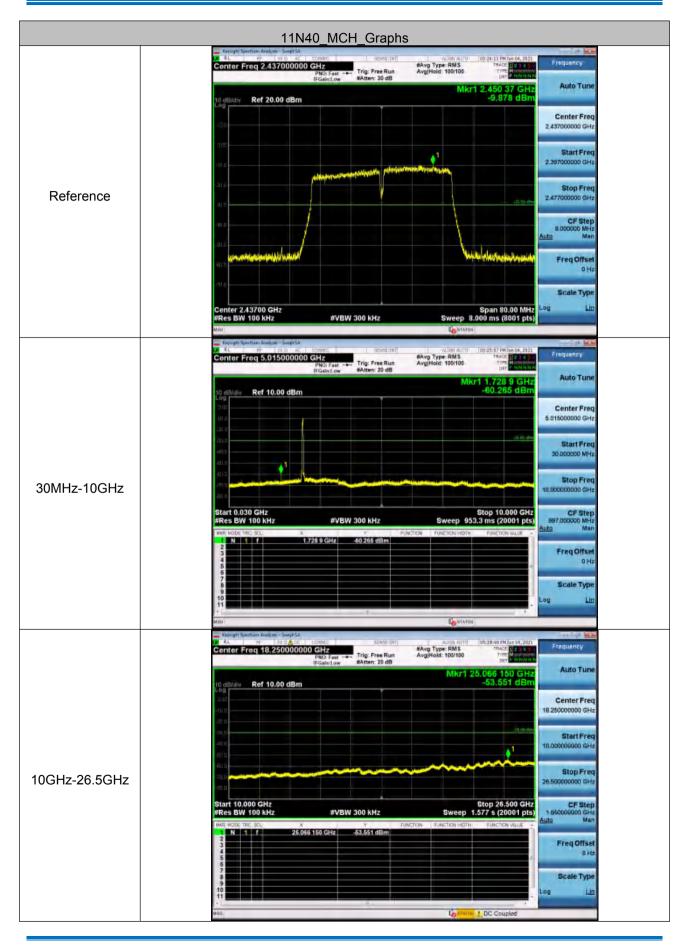




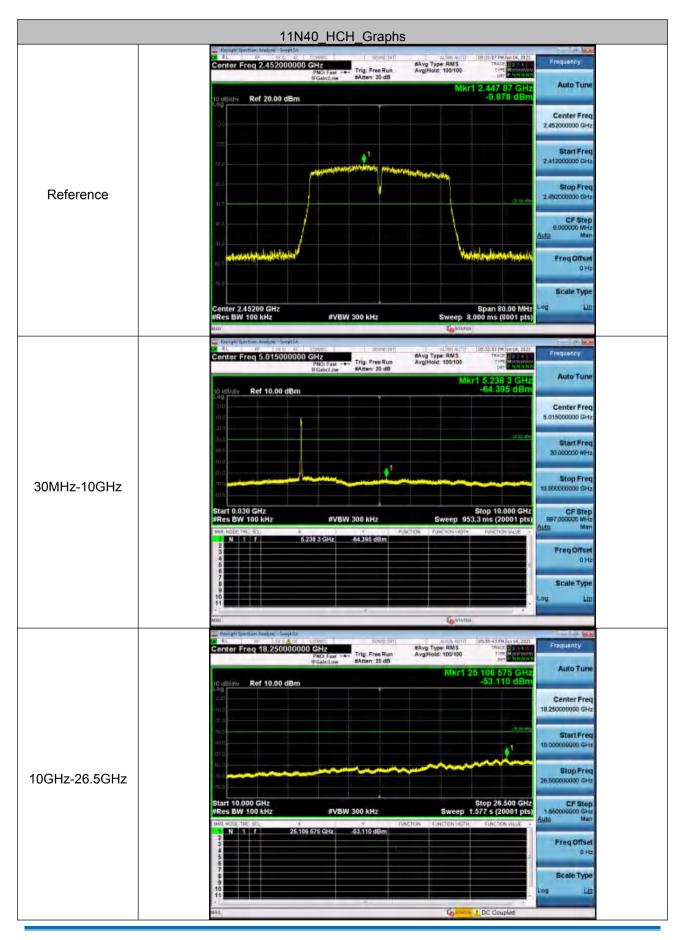














Remark:

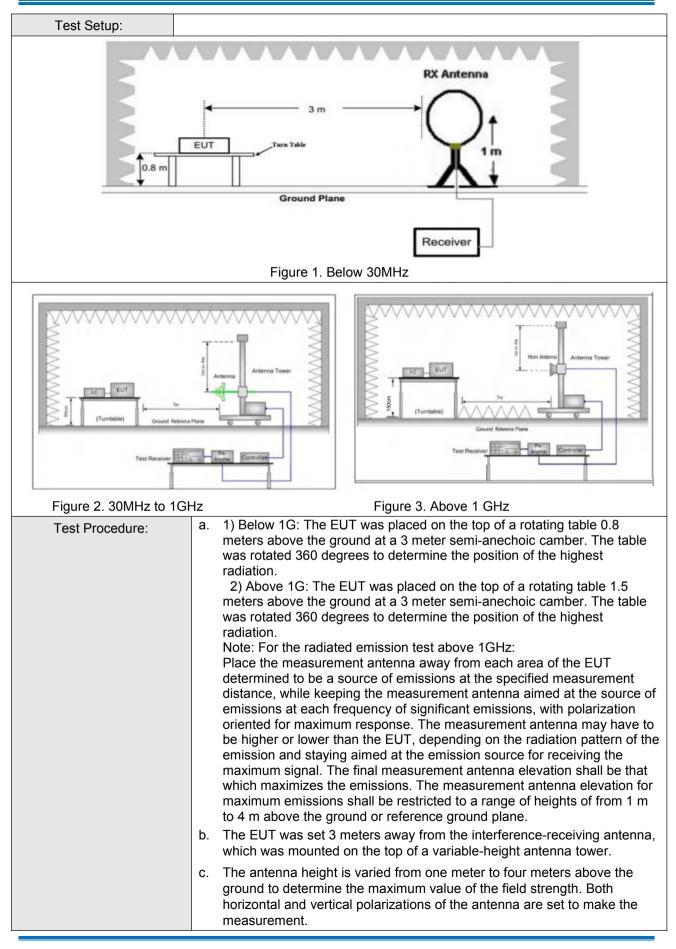
Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported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



5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	15.209 and 15.20	5				
Test Method:	ANSI C63.10 2013						
Test Site:	Measurement Distance: 3	m (Semi-Anechoi	c Chamber)				
	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		
Receiver Setup:	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak		
Receiver Setup.	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		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
		Peak	1MHz	10Hz	Average		
	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	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3		
Linnt.	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz	500	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 peak emission level radiated by the device.						



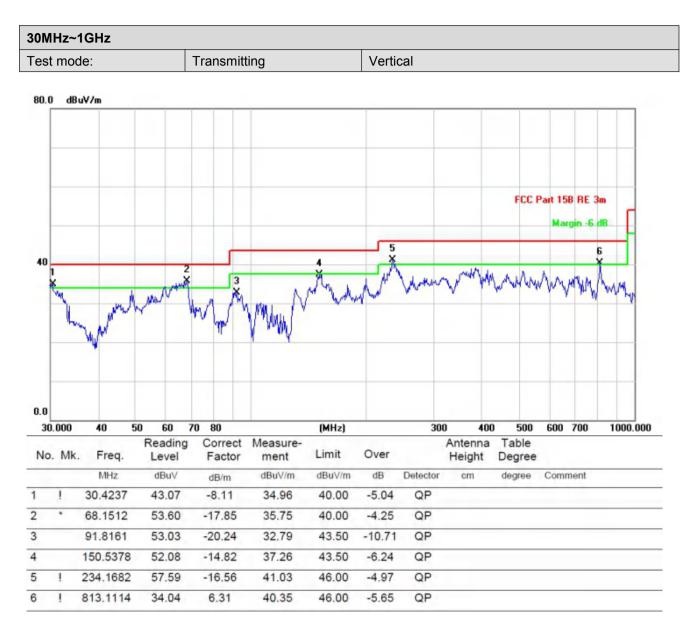




	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum 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. Repeat above procedures until all frequencies measured was complete.				
Exploratory Test Made	Transmitting with all kind of modulations, data rates.				
Exploratory Test Mode:	Transmitting 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				
Final Test Mode:	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)				
	For below 1GHz, through Pre-scan, find the 6Mbps of rate of 802.11g at mid channel is the worst case.				
Test Results:	Pass				



5.8.1 Radiated emission below 1GHz



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

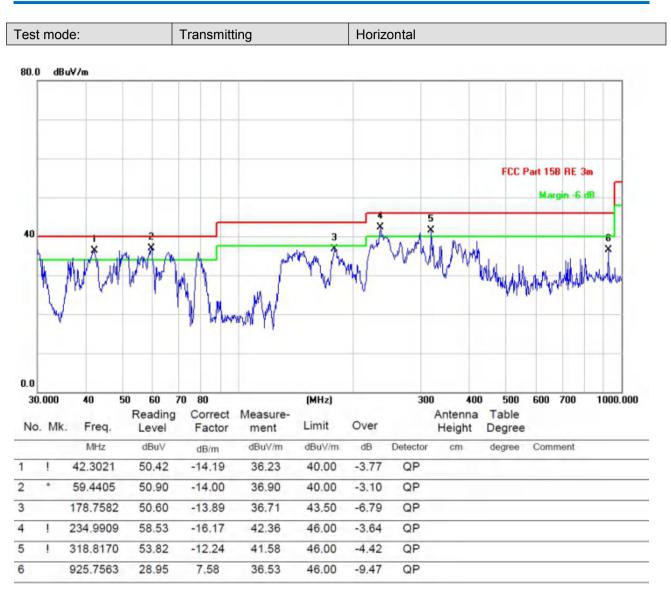
Factor= Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



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Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



5.8.2 Transmitter emission above 1GHz

Test m	ode:	802.11b	(1Mbps)	Test ch	nannel:	Low	/est
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4824.000	53.04	-4.26	48.78	74	-26.70	PK	Н
4824.000	33.63	-4.26	29.37	54	21.55	AV	Н
7236.000	46.39	1.18	47.57	74	-26.36	PK	Н
7236.000	32.76	1.18	33.94	54	-18.42	AV	Н
4824.000	51.18	-4.26	46.92	74	24.30	PK	V
4824.000	36.06	-4.26	31.80	54	-20.70	AV	V
7236.000	48.82	1.18	50.00	74	-24.61	PK	V
7236.000	30.34	1.18	31.52	54	-21.12	AV	V

Test m	ode:	802.11b	(1Mbps)	Test ch	nannel:	Mid	ldle
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4874.000	51.48	-4.12	47.36	74	-24.62	PK	н
4874.000	34.24	-4.12	30.12	54	21.66	AV	н
7311.000	46.95	1.46	48.41	74	-27.14	PK	н
7311.000	33.26	1.46	34.72	54	-18.47	AV	н
4874.000	49.82	-4.12	45.70	74	25.03	PK	V
4874.000	36.69	-4.12	32.57	54	-21.18	AV	V
7311.000	47.32	1.46	48.78	74	-24.85	PK	V
7311.000	32.97	1.46	34.43	54	-19.64	AV	V



Test m	ode:	802.11b	(1Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4924.000	51.79	-4.03	47.76	74	-26.42	PK	Н
4924.000	35.11	-4.03	31.08	54	19.31	AV	Н
7386.000	45.37	1.66	47.03	74	-25.10	PK	Н
7386.000	34.47	1.66	36.13	54	-20.20	AV	н
4924.000	51.15	-4.03	47.12	74	24.39	PK	V
4924.000	34.90	-4.03	30.87	54	-22.26	AV	V
7386.000	47.00	1.66	48.66	74	-23.36	PK	V
7386.000	32.58	1.66	34.24	54	-21.68	AV	V

Test m	ode:	802.11g	(6Mbps)	Test ch	nannel:	Low	/est
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4824.000	51.68	-4.26	47.42	74	-24.77	PK	н
4824.000	33.69	-4.26	29.43	54	21.06	AV	н
7236.000	45.42	1.18	46.60	74	-26.93	PK	н
7236.000	32.08	1.18	33.26	54	-19.82	AV	н
4824.000	51.12	-4.26	46.86	74	25.39	PK	V
4824.000	36.30	-4.26	32.04	54	-21.40	AV	V
7236.000	47.63	1.18	48.81	74	-23.96	PK	V
7236.000	33.01	1.18	34.19	54	-21.71	AV	V

Test m	ode:	802.11g	(6Mbps)	Test ch	nannel:	Mid	ldle
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4874.000	53.46	-4.12	49.34	74	-26.86	PK	н
4874.000	33.96	-4.12	29.84	54	19.37	AV	н
7311.000	47.26	1.46	48.72	74	-25.75	РК	н
7311.000	34.37	1.46	35.83	54	-20.17	AV	н
4874.000	49.23	-4.12	45.11	74	25.33	PK	V
4874.000	35.76	-4.12	31.64	54	-22.79	AV	V
7311.000	46.95	1.46	48.41	74	-25.76	PK	V
7311.000	30.83	1.46	32.29	54	-21.02	AV	V



Test m	ode:	802.11g	(6Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4924.000	51.32	-4.03	47.29	74	-24.01	PK	Н
4924.000	34.49	-4.03	30.46	54	20.84	AV	Н
7386.000	46.17	1.66	47.83	74	-24.79	PK	Н
7386.000	32.57	1.66	34.23	54	-20.41	AV	н
4924.000	48.55	-4.03	44.52	74	24.21	PK	V
4924.000	36.70	-4.03	32.67	54	-22.51	AV	V
7386.000	48.26	1.66	49.92	74	-24.88	PK	V
7386.000	32.36	1.66	34.02	54	-21.26	AV	V

Test m	ode:	802.11n(6.5Mbps)	Test ch	nannel:	Lov	vest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4824.000	54.09	-4.26	49.83	74	-25.46	PK	н
4824.000	34.38	-4.26	30.12	54	20.33	AV	н
7236.000	45.72	1.18	46.90	74	-25.01	PK	н
7236.000	34.70	1.18	35.88	54	-19.68	AV	н
4824.000	51.23	-4.26	46.97	74	24.33	РК	V
4824.000	35.74	-4.26	31.48	54	-20.45	AV	V
7236.000	48.36	1.18	49.54	74	-25.44	РК	V
7236.000	32.21	1.18	33.39	54	-20.26	AV	V

Test m	ode:	802.11n(6.5Mbps)	Test ch	nannel:	Mid	ldle
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4874.000	54.12	-4.12	50.00	74	-26.21	PK	н
4874.000	35.13	-4.12	31.01	54	20.71	AV	н
7311.000	48.01	1.46	49.47	74	-26.05	PK	Н
7311.000	31.90	1.46	33.36	54	-18.59	AV	Н
4874.000	50.14	-4.12	46.02	74	25.37	PK	V
4874.000	37.84	-4.12	33.72	54	-21.82	AV	V
7311.000	48.94	1.46	50.40	74	-25.58	PK	V
7311.000	33.03	1.46	34.49	54	-20.85	AV	V



Test m	ode:	802.11n(6.5Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4924.000	52.14	-4.03	48.11	74	-24.63	PK	Н
4924.000	33.79	-4.03	29.76	54	20.97	AV	Н
7386.000	45.91	1.66	47.57	74	-24.68	PK	Н
7386.000	32.66	1.66	34.32	54	-18.75	AV	н
4924.000	48.80	-4.03	44.77	74	24.95	PK	V
4924.000	35.79	-4.03	31.76	54	-22.90	AV	V
7386.000	47.19	1.66	48.85	74	-25.49	PK	V
7386.000	31.88	1.66	33.54	54	-22.41	AV	V

Test m	ode:	802.11n40)(13.5Mbps)	Test ch	nannel:	Low	vest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4844.000	52.24	-4.2	48.04	74	-26.33	PK	Н
4844.000	35.56	-4.2	31.36	54	20.39	AV	Н
7266.000	46.16	1.18	47.34	74	-24.98	PK	Н
7266.000	32.38	1.18	33.56	54	-20.83	AV	н
4844.000	48.90	-4.2	44.70	74	25.35	PK	V
4844.000	35.31	-4.2	31.11	54	-20.83	AV	V
7266.000	47.84	1.18	49.02	74	-26.15	PK	V
7266.000	30.76	1.18	31.94	54	-19.85	AV	V

Test m	ode:	802.11n40	0(13.5Mbps)	Test ch	nannel:	Mid	dle
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4874.000	54.22	-4.12	50.10	74	-25.45	PK	н
4874.000	34.54	-4.12	30.42	54	20.06	AV	Н
7311.000	46.91	1.46	48.37	74	-25.63	PK	н
7311.000	33.68	1.46	35.14	54	-19.82	AV	Н
4874.000	48.53	-4.12	44.41	74	25.88	PK	V
4874.000	36.27	-4.12	32.15	54	-20.74	AV	V
7311.000	48.56	1.46	50.02	74	-25.08	PK	V
7311.000	31.32	1.46	32.78	54	-20.74	AV	V



Test m	ode:	802.11n40	0(13.5Mbps)	Test ch	nannel:	Higl	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4904.000	52.56	-4.03	48.53	74	-26.77	PK	Н
4904.000	36.44	-4.03	32.41	54	20.71	AV	н
7356.000	45.86	1.66	47.52	74	-25.81	PK	Н
7356.000	32.73	1.66	34.39	54	-20.19	AV	Н
4904.000	48.89	-4.03	44.86	74	25.89	PK	V
4904.000	36.62	-4.03	32.59	54	-23.17	AV	V
7356.000	46.84	1.66	48.50	74	-25.19	PK	V
7356.000	32.29	1.66	33.95	54	-20.28	AV	V

Remark:

- 1) The 1Mbps of rate of 802.11b is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



5.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	7 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013	NSI C63.10 2013								
Test Site:	Measurement Distance: 3m	easurement Distance: 3m (Semi-Anechoic Chamber)								
	Frequency	Limit (dBuV/m @3m)	Remark							
	30MHz-88MHz	40.0	Quasi-peak Value							
	88MHz-216MHz	43.5	Quasi-peak Value							
Limit:	216MHz-960MHz	46.0	Quasi-peak Value							
	960MHz-1GHz	54.0	Quasi-peak Value							
	Above 1GHz	54.0	Average Value							
		74.0	Peak Value							

Test Setup:

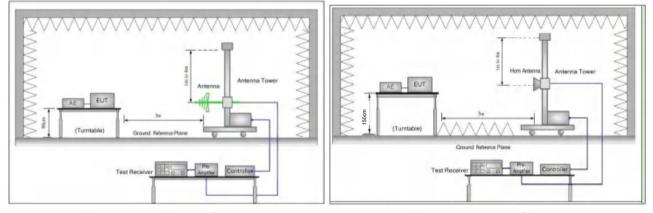


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Figure 1. 30MH	z to 1GHZ Figure 2. Above 1 GHZ
	 a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz:
Test Procedure:	Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
	b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



	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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel			
	g. Test the EUT in the lowest channel, the Highest channel			
	h. Repeat above procedures until all frequencies measured was complete.			
Exploratory Test Made:	Transmitting with all kind of modulations, data rates.			
Exploratory Test Mode:	Transmitting mode.			
	1Mbps of rate is the worst case of 802.11b;			
	6Mbps of rate is the worst case of 802.11g ;			
Final Test Mode:	6.5Mbps of rate is the worst case of 802.11n(HT20);			
	13.5Mbps of rate is the worst case of 802.11n(HT40)			
	Only the worst case is recorded in the report.			
Test Results:	Pass			



Test data:

Worse case	mode:	802.11b(1N	/lbps)	Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	56.33	-9.2	47.13	74	-25.98	РК	Н
2390.000	40.70	-9.2	31.50	54	19.22	AV	Н
2400.000	57.28	-9.39	47.89	74	-25.09	PK	Н
2400.000	38.35	-9.39	28.96	54	-18.59	AV	Н
2390.000	56.60	-9.2	47.40	74	24.86	PK	V
2390.000	39.62	-9.2	30.42	54	-20.63	AV	V
2400.000	57.88	-9.39	48.49	74	-24.94	PK	V
2400.000	39.86	-9.39	30.47	54	-20.62	AV	V

Worse case	mode:	802.11b(1N	/lbps)	Test chann	el:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	H/V
2483.500	57.70	-9.29	48.41	74	-25.55	РК	н
2483.500	40.82	-9.29	31.53	54	20.65	AV	Н
2483.500	58.47	-9.29	49.18	74	-26.47	РК	V
2483.500	38.20	-9.29	28.91	54	-18.93	AV	V



Worse case	mode:	802.11g(6N	Abps)	Test chann	el:	Lowest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	58.21	-9.2	49.01	74	-24.55	РК	н
2390.000	39.04	-9.2	29.84	54	21.55	AV	н
2400.000	56.43	-9.39	47.04	74	-27.18	РК	н
2400.000	39.07	-9.39	29.68	54	-20.06	AV	н
2390.000	55.99	-9.2	46.79	74	25.24	РК	V
2390.000	39.26	-9.2	30.06	54	-22.31	AV	V
2400.000	57.76	-9.39	48.37	74	-25.31	РК	V
2400.000	40.07	-9.39	30.68	54	-21.99	AV	V

Worse case	mode:	802.11g(6N	/lbps)	Test chann	el:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.500	57.56	-9.29	48.27	74	-24.15	РК	н
2483.500	42.00	-9.29	32.71	54	20.61	AV	н
2483.500	57.08	-9.29	47.79	74	-27.44	РК	V
2483.500	37.38	-9.29	28.09	54	-20.29	AV	V



Worse case	mode:	802.11n(HT	20)(6.5Mbps)	Test chann	el:	Lowest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	56.15	-9.2	46.95	74	-26.16	РК	н
2390.000	41.32	-9.2	32.12	54	18.95	AV	н
2400.000	57.55	-9.39	48.16	74	-27.35	РК	н
2400.000	37.95	-9.39	28.56	54	-20.31	AV	н
2390.000	56.37	-9.2	47.17	74	25.38	РК	V
2390.000	41.35	-9.2	32.15	54	-22.14	AV	V
2400.000	56.61	-9.39	47.22	74	-24.67	РК	V
2400.000	40.11	-9.39	30.72	54	-20.91	AV	V

Worse case	mode:	802.11n(HT	20)(6.5Mbps)	Test chann	el:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.500	57.86	-9.29	48.57	74	-26.87	PK	Н
2483.500	40.60	-9.29	31.31	54	20.27	AV	Н
2483.500	58.78	-9.29	49.49	74	-25.50	PK	V
2483.500	39.60	-9.29	30.31	54	-19.00	AV	V



Worse case	mode:	802.11n(HT	40)(13.5Mbps)	Test chann	el:	Lowest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390.000	58.26	-9.2	49.06	74	-24.74	РК	н
2390.000	39.74	-9.2	30.54	54	20.66	AV	н
2400.000	57.12	-9.39	47.73	74	-27.44	РК	н
2400.000	38.88	-9.39	29.49	54	-20.46	AV	н
2390.000	54.69	-9.2	45.49	74	25.09	РК	V
2390.000	39.26	-9.2	30.06	54	-22.81	AV	V
2400.000	57.15	-9.39	47.76	74	-25.36	РК	V
2400.000	41.33	-9.39	31.94	54	-20.46	AV	V

Worse case mode:		802.11n(HT40)(13.5Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.500	57.90	-9.29	48.61	74	-25.47	РК	Н
2483.500	41.70	-9.29	32.41	54	21.58	AV	Н
2483.500	57.38	-9.29	48.09	74	-24.89	PK	V
2483.500	38.16	-9.29	28.87	54	-20.44	AV	V

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



6 Photographs - EUT Test Setup

Please refer to test setup file



7 Photographs - EUT Constructional Details

Please refer to the report No.: CQASZ20210500031EX-03

THE END