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

Test Report

Report No.: CQASZ20210500028EX-02

Applicant: SHENZHEN PEICHENG TECHNOLOGY CO., LTD

Address of Applicant: 5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict,

Shenzhen, China .Zip code: 518126

Manufacturer: SHENZHEN PEICHENG TECHNOLOGY CO., LTD

Address of 5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict,

Manufacturer: Shenzhen, China .Zip code: 518126

Equipment Under Test (EUT):

Product: tablet pc

Model No.: CP10

Brand Name: COOPERS

FCC ID: 2AV6Y-CP10

Standards: 47 CFR FCC Part 15 Subpart C 15.247

Date of Test: May 11, 2021 – Jun. 01, 2021

Date of Issue: Jun. 15, 2021

Test Result: PASS

Tested By: Lewis 2hou

(Lewis Zhou)

Reviewed By:

(Jun Li)

Approved By:

(Sheek luo)



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.

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



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210500028EX-02	Rev.01	Initial report	Jun. 15, 2021





2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section	ANSI C63.10 2013	PASS
Antenna Requirement	15.203/15.247 (c)	ANSI C03. 10 2013	
AC Power Line	47 CFR Part 15, Subpart C Section	ANSI C63.10 2013	PASS
Conducted Emission	15.207	ANSI C03. 10 2013	PASS
Conducted Peak &	47 CFR Part 15, Subpart C Section	ANSI C63.10 2013	DACC
Average Output Power	15.247 (b)(3)	ANSI C03. 10 2013	PASS
6dB Occupied	47 CFR Part 15, Subpart C Section	ANSI C63.10 2013	PASS
Bandwidth	15.247 (a)(2)	ANSI C03. 10 2013	
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF	47 CFR Part 15, Subpart C Section	ANSI C63.10 2013	PASS
Conducted Emissions	15.247(d)	ANSI C03. 10 2013	
RF Conducted Spurious	47 CFR Part 15, Subpart C Section	ANSI C63.10 2013	PASS
Emissions	15.247(d)	ANSI C03. 10 2013	
Radiated Spurious	47 CFR Part 15, Subpart C Section	ANSI C63.10 2013	PASS
Emissions	15.205/15.209	ANSI C03. 10 20 13	
Restricted bands around	47 CFR Part 15, Subpart C Section	41101 000 40 0040	PASS
fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	





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4 General Information

4.1 Client Information

Applicant:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address of Applicant:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126
Manufacturer:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address of Manufacturer:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126

4.2 General Description of EUT

Product Name:	tablet pc
Test Model No.:	CP10
Trade Mark:	COOPERS
Hardware Version:	V1.0
Software Version:	V1.8
Operation Francisco	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 IEEE for 802.11n(HT20): OFDM IEEE for 802.11n(HT40): OFDM
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Antenna Type	FPC antenna
Antenna Gain	0dBi
Power Supply:	DC 3.7V from battery
	Charging : DC 5.0V 1A

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.



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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

For 802.11n

(HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

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	sion			
Temperature:		23 °C		
Humidity:		51 % RH		
Atmospheric Press	ure:	992mbar		
Radiated Emissio	n (Normal Cond	ditions)		
Temperature:		25.1 °C~25.5 °C		
Humidity:		51 % RH~55 % RH		
Atmospheric Pressure:		992mbar		
RF item test (RF	RF item test (RF test room Normal Conditions)			
Temperature:		26 °C~27.3 °C		
Humidity: 58 % RH~59 % RH		58 % RH~59 % RH		
Atmospheric Pressure: 992mbar		992mbar		
Transmitting mode:	Use test softw	are to set the lowest frequency, the middle frequency and the		



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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
ADAPTER	1	MODEL: FJ-SW1260502500UN INPUT:100-240 50/60Hz 0.4A Max OUTPUT:5V 1500mA	Provide by lab	SDOC
1	/	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.** guality 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.

Hereafter the best measurement capability for CQA laboratory is reported:

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℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

⁽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.



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4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	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
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2020/9/22	2021/9/21
		AMF-6D-02001800-29-		2018/11/2	2019/11/1
Preamplifier	MITEQ	20P	CQA-036	2010/11/2	2010/11/1
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.

EUT Antenna:



The antenna is FPC antenna. The best case gain of the antenna is 0dBi.



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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						
	Eroguepov rango (MHz)	Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	Average				
Limit:	0.15-0.5	66 to 56*	56 to 46*				
Ziiiii.	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithn	n of the frequency.					
Test Procedure:	1) The mains terminal disturbation. 2) The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second reference plane in the same way as impleded on the same way as impleded in the same wa	bance voltage test was a AC power source throetwork) which provides bles of all other units of LISN 2, which was the LISN 1 for the unit of was used to connect ating of the LISN was reced upon a non-metalling of the LISN was round reference plane, ith a vertical ground reference plane was bonded to the 1 was placed 0.8 m from the vertical ground reference und reference plane. The coff the LISN 1 and the quipment was at least 0 the composition, the relative terface cables must be	Fough a LISN 1 (Line to a 50Ω/50μH + 5Ω linear of the EUT were bonded to the ground being measured. A multiple power cables to not exceeded. The table 0.8m above the rangement, the EUT was derence plane. The rear dereference plane. The e horizontal ground for the boundary of the explane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. We positions of				
	Tunner itting a vitte all bind of	Ground Reference Plane					
Exploratory Test Mode:	Transmitting with all kind of highest channel.	modulations, data rate	es at lowest, middle and				

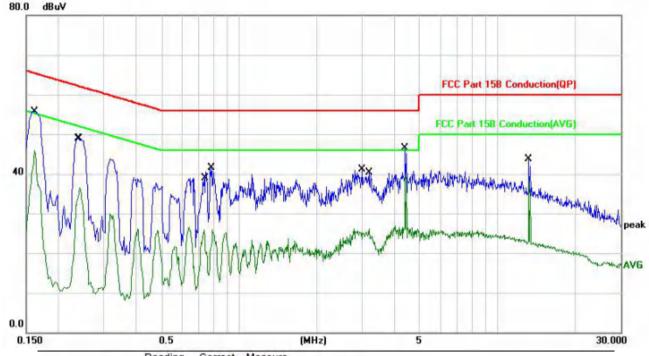


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Final Test Mode:	All wifi modes were tested at Low, Middle, and High channel; only the worst result of 802.11b- CH11 was reported as below
Test Voltage:	AC110V/60Hz
Test Results:	Pass

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	

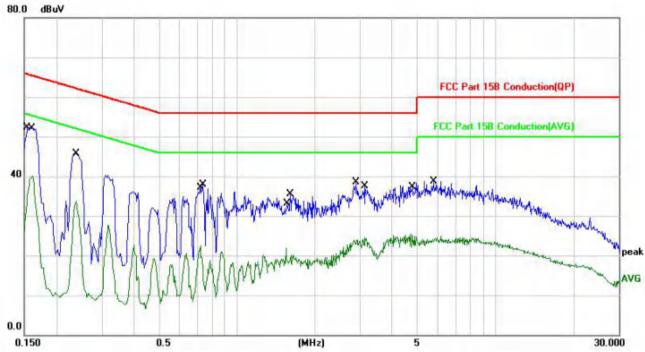
Remark:

- 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		
		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.



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5.3 Conducted Peak & Average Output Power

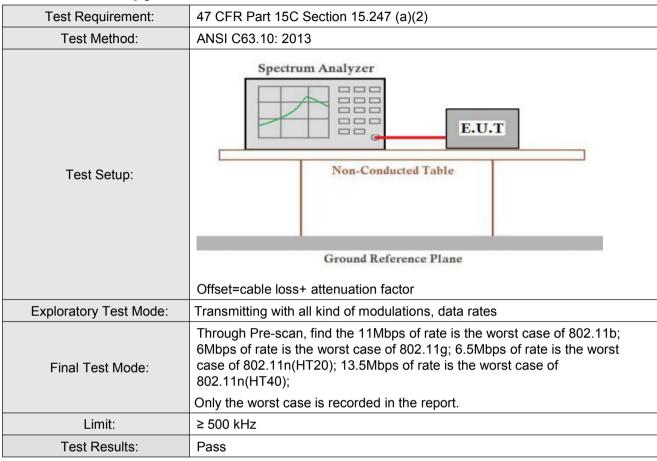
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10: 2013				
Test Setup:	EUT Power Meter				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps 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

VVIII								
Туре	Test channel	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Result			
	Lowest	6.59	3.55					
802.11b	Middle	7.25	4.34	30.00	Pass			
	Highest	8.53	5.49					
802.11g	Lowest	7.55	4.74					
	Middle	8.27	5.45	30.00	Pass			
	Highest	6.74	3.78					
	Lowest	6.70	4.07					
802.11n(HT20)	Middle	7.46	4.83	30.00	Pass			
, ,	Highest	5.84	3.24					
802.11n(HT40)	Lowest	5.79	2.90					
	Middle	6.49	3.51	30.00	Pass			
	Highest	6.32	3.50					



5.4 6dB Occupy Bandwidth

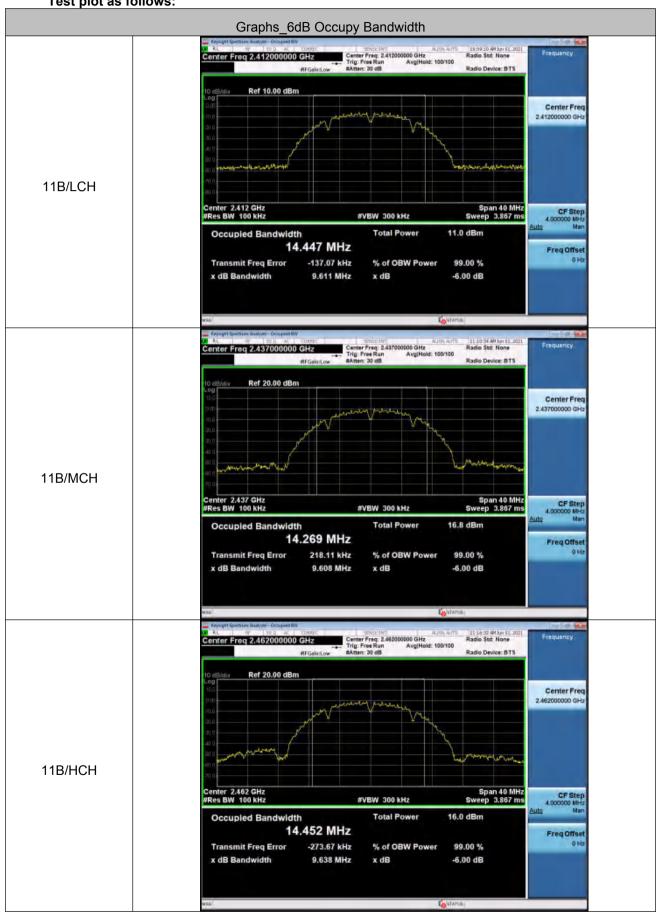


Measurement Data

Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
	Lowest	9.611		
802.11b	Middle	9.608	≥500	Pass
	Highest	9.638		
	Lowest	16.60		
802.11g	Middle	16.53	≥500	Pass
	Highest	16.50		
	Lowes	17.84		
802.11n(HT20)	Middle	17.73	≥500	Pass
	Highest	17.76		
	Lowest	36.53		
802.11n(HT40)	Middle	36.03	≥500	Pass
	Highest	35.76		



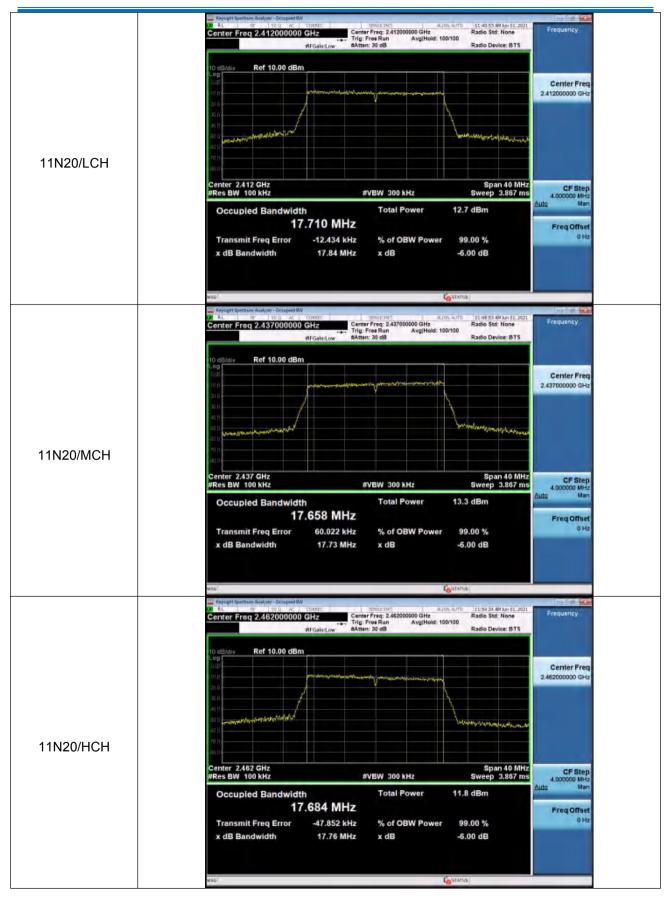




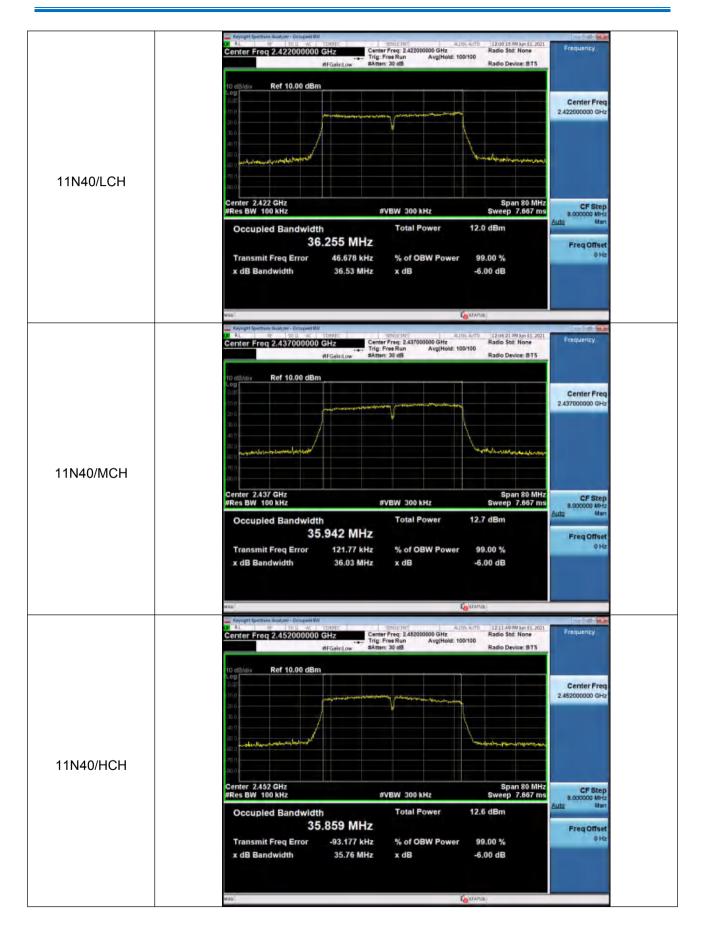








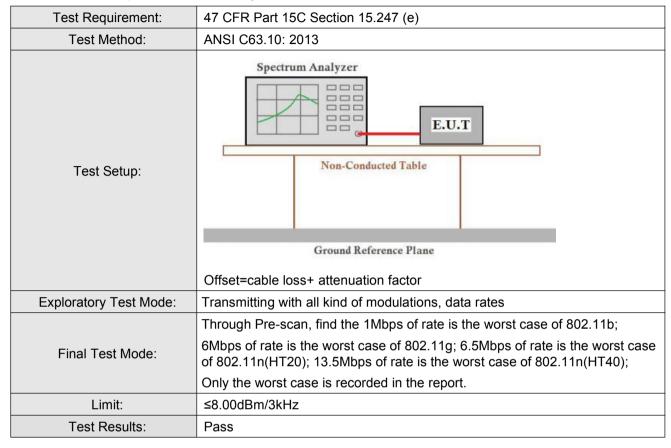






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5.5 Power Spectral Density



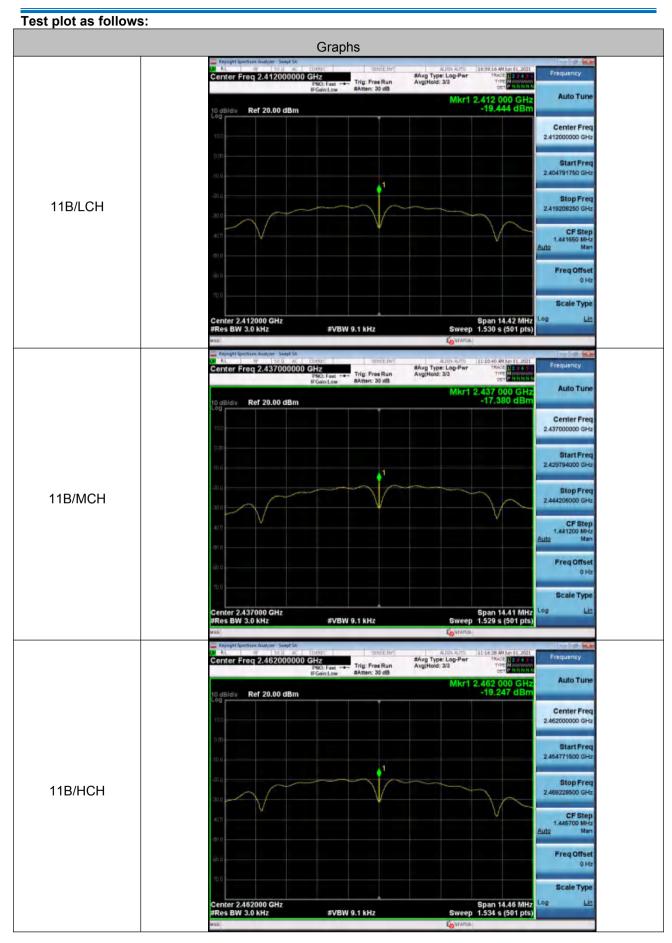


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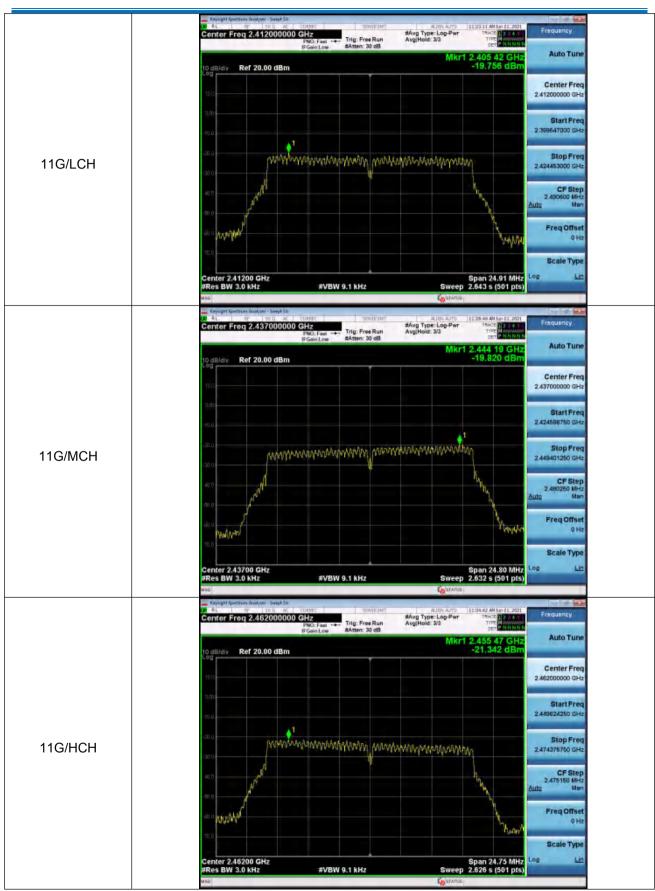
Measurement Data

Туре	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result	
	Lowes	-19.444		Pass	
802.11b	Middle	-17.380	8		
	Highest	-19.247			
802.11g	Lowest	-19.756		Pass	
	Middle	-19.82	8		
	Highest	-21.342			
	Lowest	-20.847		Pass	
802.11n(HT20)	Middle	-20.426	8		
	Highest	-21.699			
	Lowest	-24.336			
802.11n(HT40)	Middle	-23.427	8	Pass	
	Highest	-23.136			

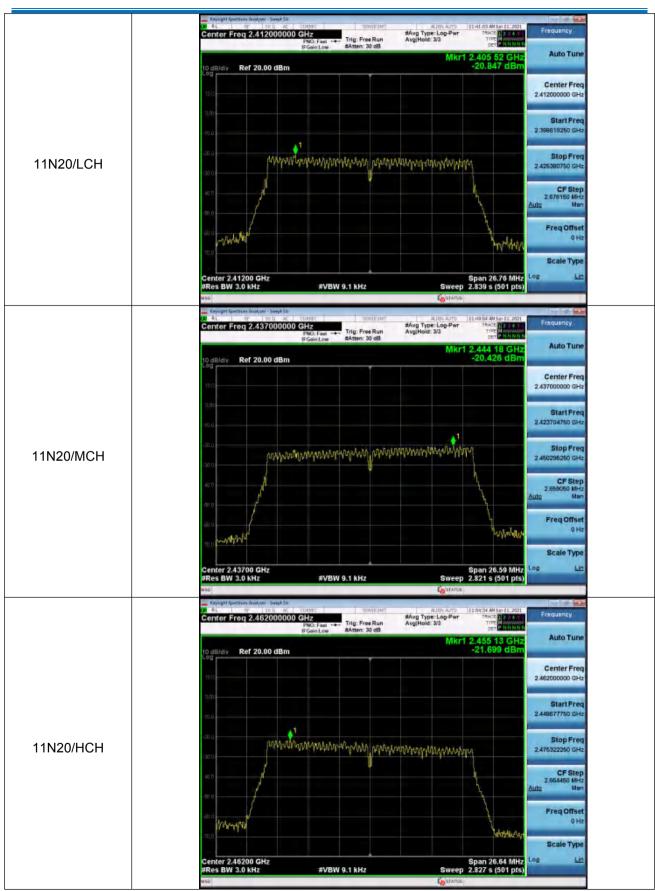




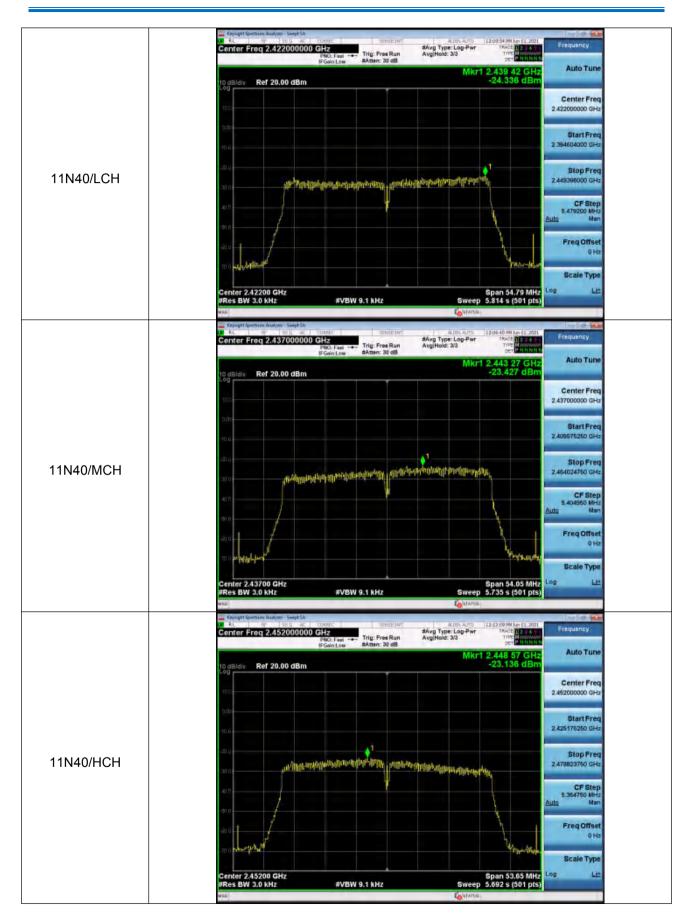








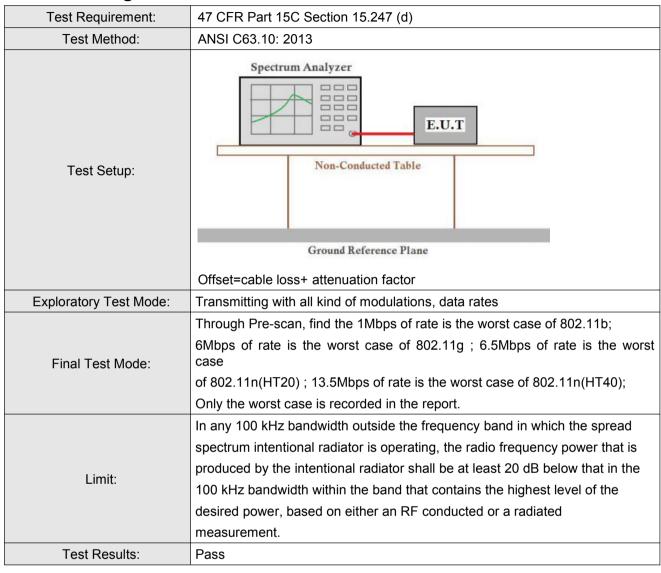






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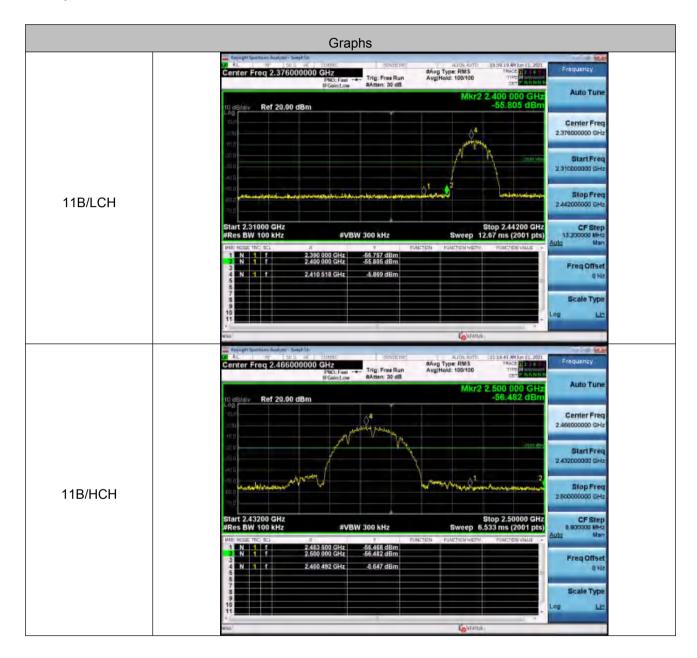
5.6 Band-edge for RF Conducted Emissions



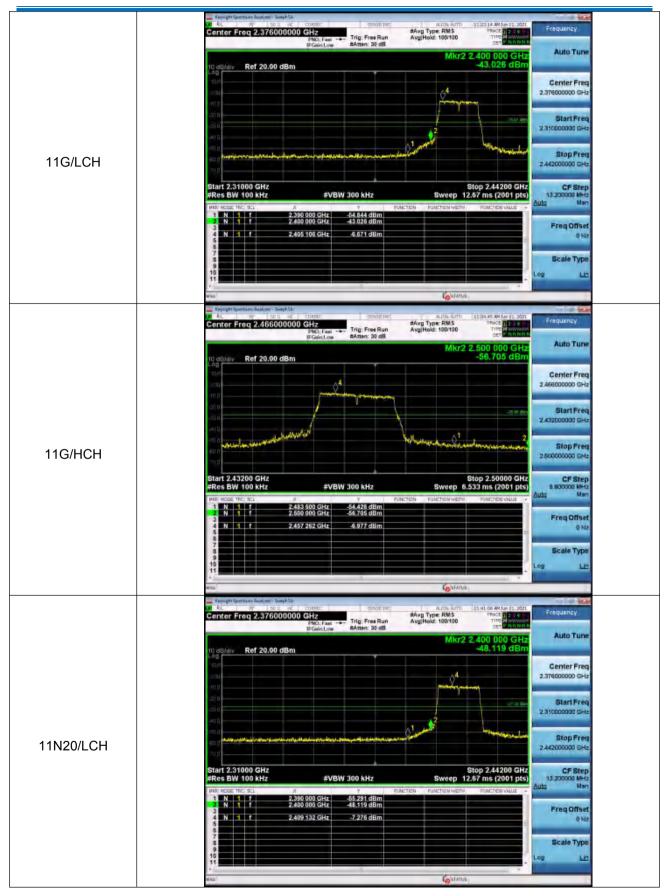


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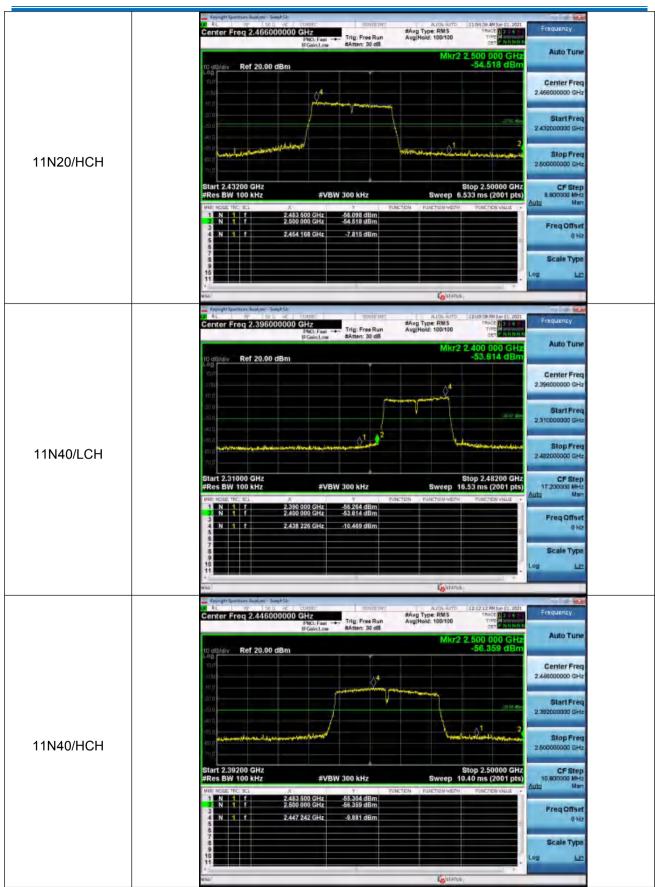
Test plot as follows:







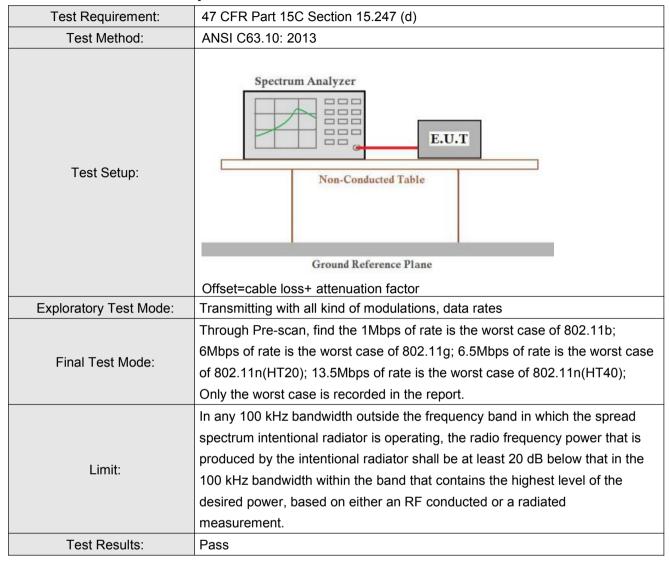




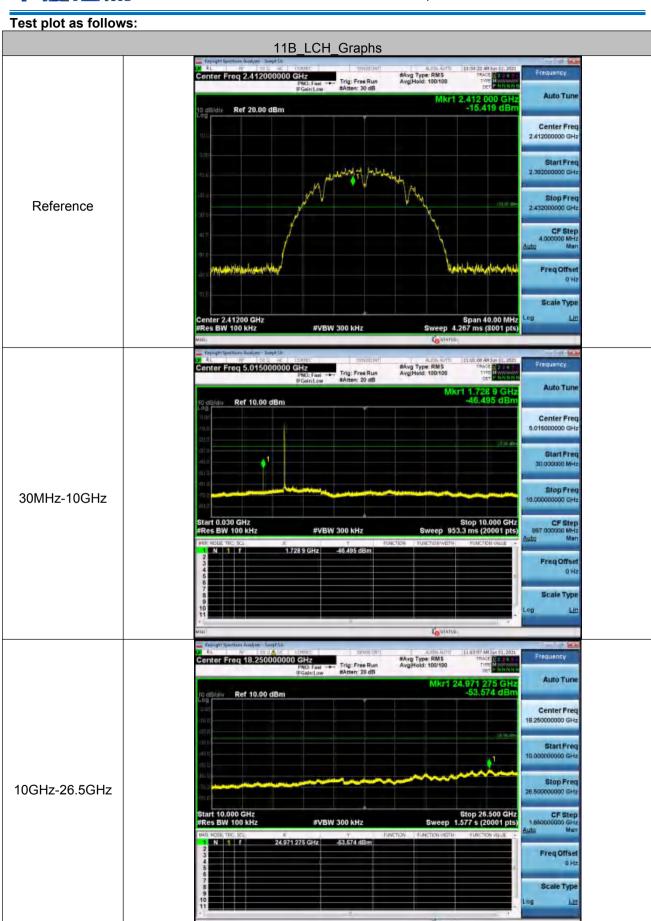


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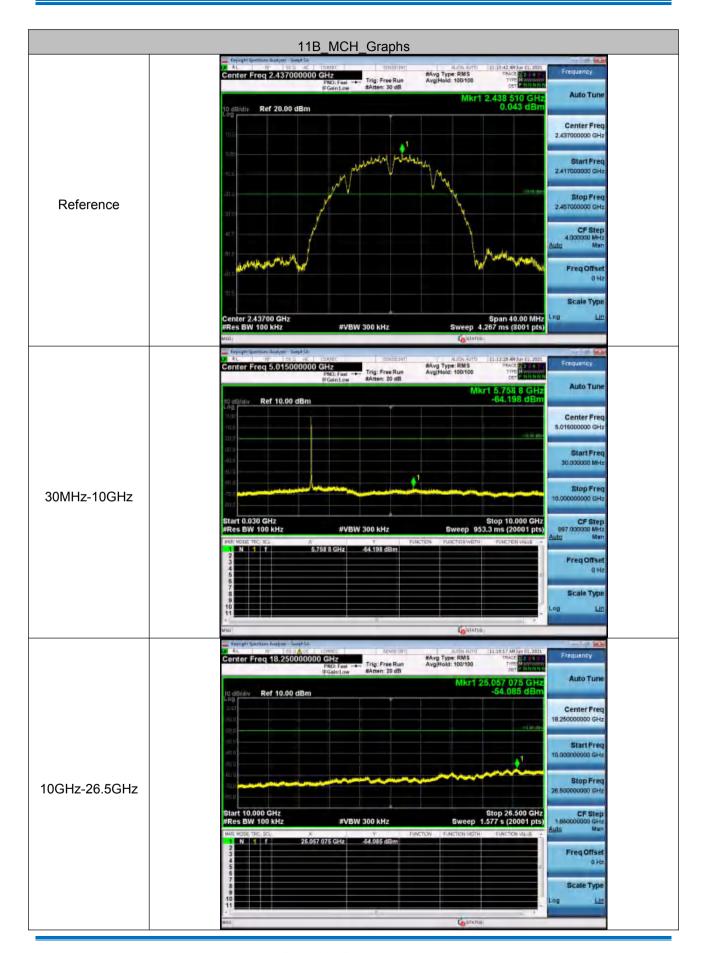
5.7 RF Conducted Spurious Emissions

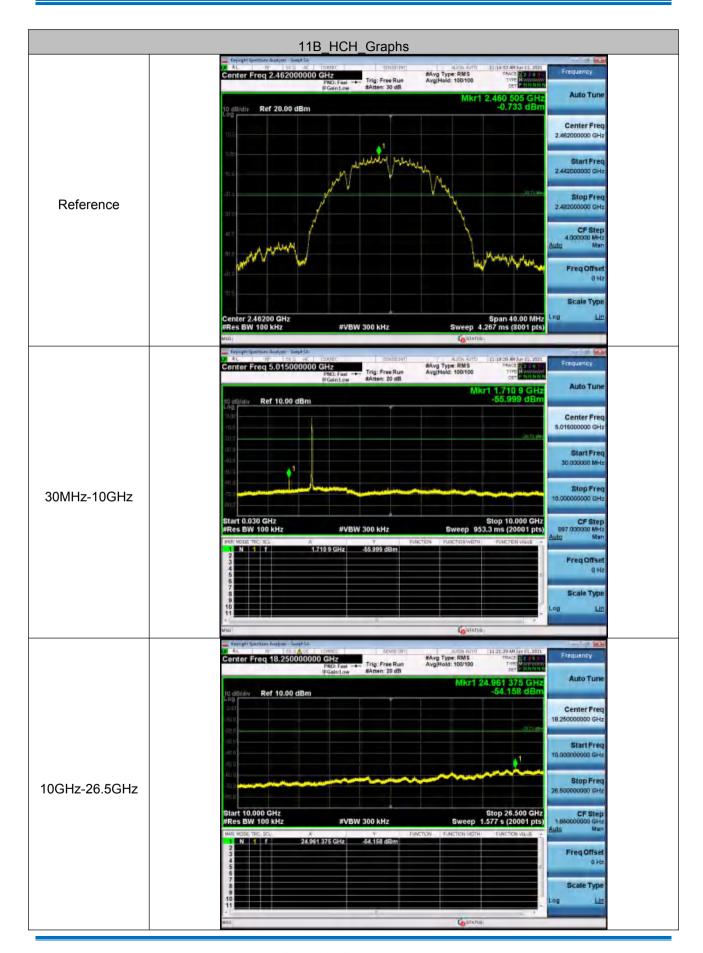




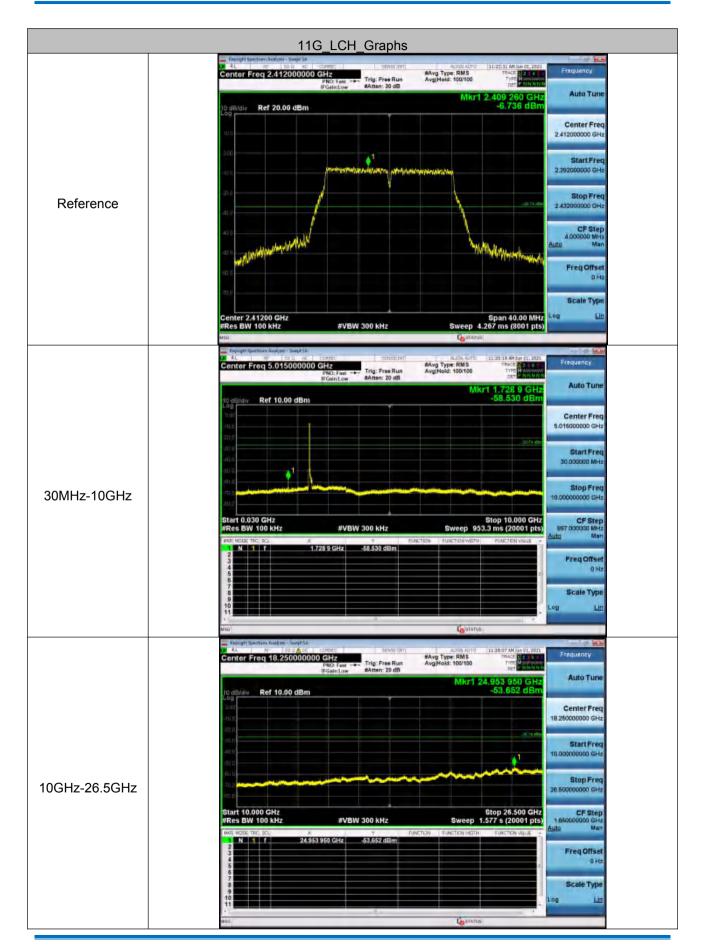
















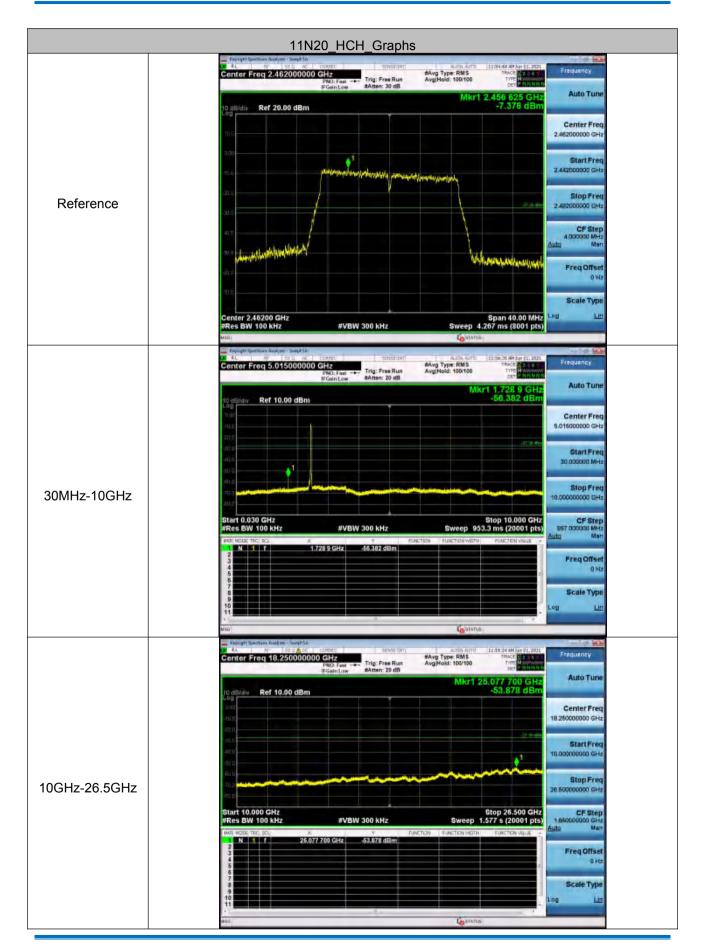








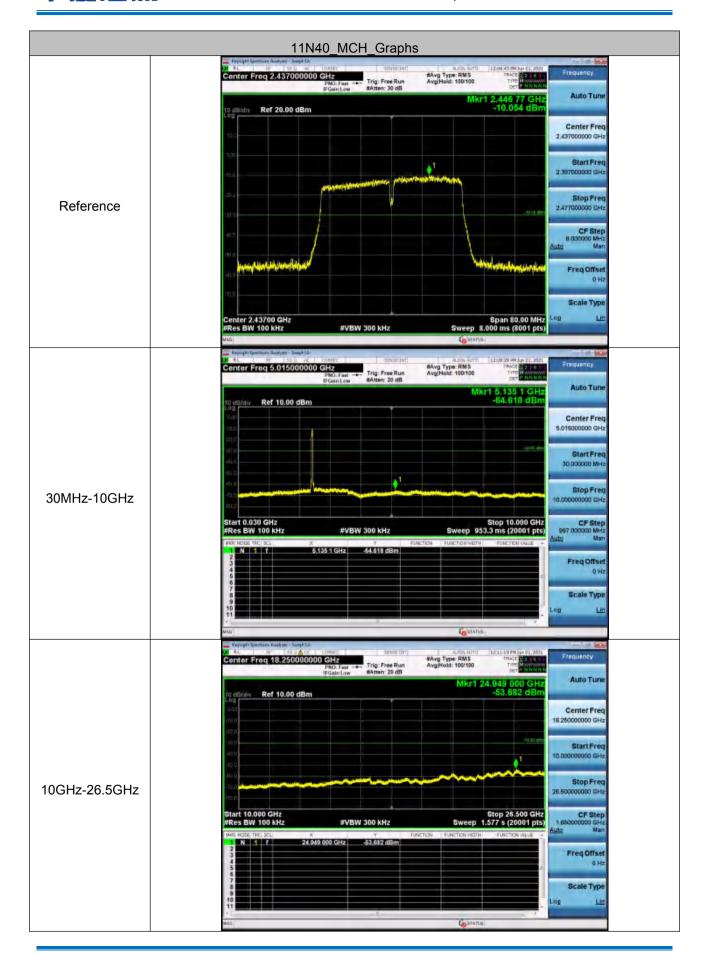


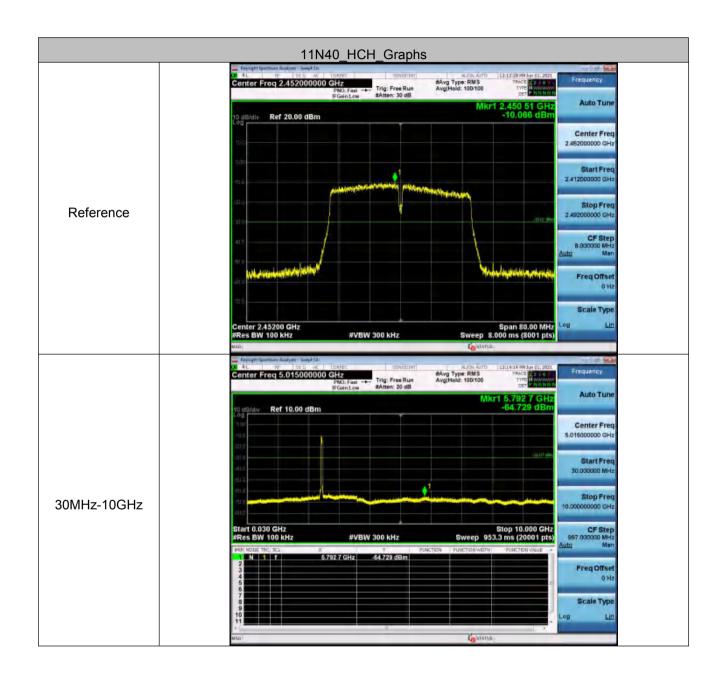














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Remark:

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.



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5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	15.209 and 15.20	15					
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3	m (Semi-Anechoid	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			
Neceiver 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			
	Above IGHZ	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			
	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.							



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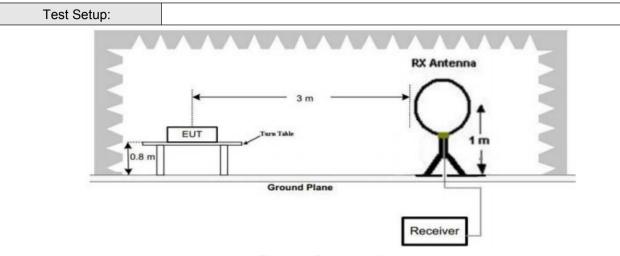
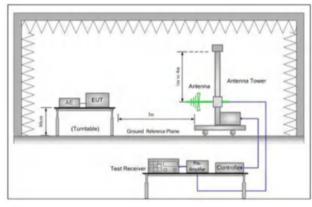


Figure 1. Below 30MHz



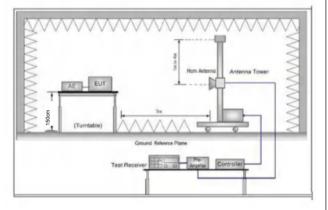


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 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:

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.

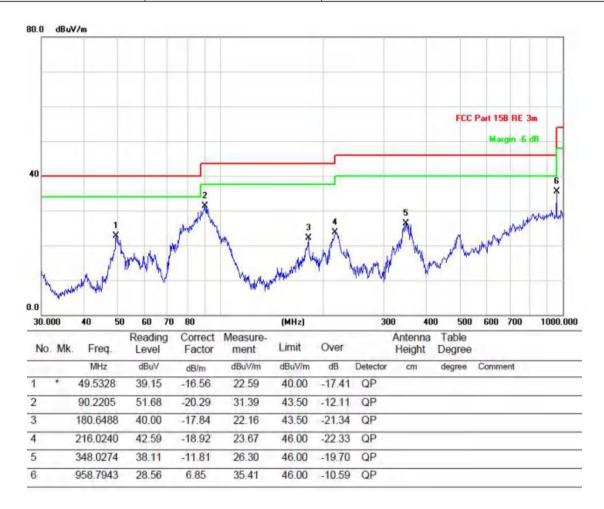


	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum 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.			
Cyploreteny Teet Mede:	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 1Mbps of rate of 802.11b at lowest channel is the worst case.			
Test Results:	Pass			



5.8.1 Radiated emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting	Vertical



Remark:

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

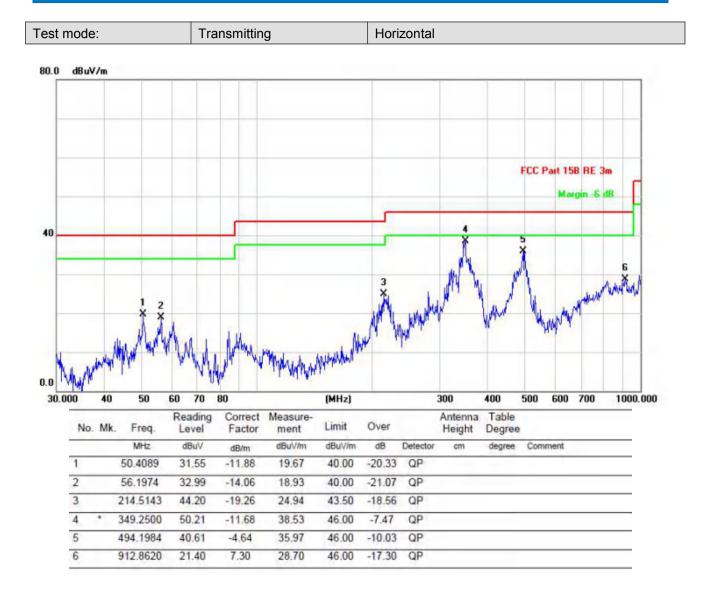
Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

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	Test channel:		vest	
_	Meter		Emission				Ant. Pol.	
Frequency	Reading	Factor	Level	Limits	Over	Detector		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	
4824.000	54.28	-4.26	50.02	74	-23.98	PK	Н	
4824.000	36.57	-4.26	32.31	54	-21.69	AV	Н	
7236.000	48.20	1.18	49.38	74	-24.62	PK	Н	
7236.000	34.78	1.18	35.96	54	-18.04	AV	Н	
4824.000	51.39	-4.26	47.13	74	-26.87	PK	V	
4824.000	37.87	-4.26	33.61	54	-20.39	AV	V	
7236.000	49.48	1.18	50.66	74	-23.34	PK	V	
7236.000	33.19	1.18	34.37	54	-19.63	AV	V	

Test m	Test mode:		802.11b(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
4874.000	53.66	-4.12	49.54	74	-24.46	PK	Н	
4874.000	35.16	-4.12	31.04	54	-22.96	AV	Н	
7311.000	48.16	1.46	49.62	74	-24.38	PK	Н	
7311.000	32.09	1.46	33.55	54	-20.45	AV	Н	
4874.000	50.52	-4.12	46.40	74	-27.60	PK	V	
4874.000	38.06	-4.12	33.94	54	-20.06	AV	V	
7311.000	49.77	1.46	51.23	74	-22.77	PK	V	
7311.000	31.42	1.46	32.88	54	-21.12	AV	V	

Test m	ode:	802.11b	(1Mbps)	Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4924.000	53.83	-4.03	49.80	74	-24.20	PK	Н
4924.000	37.69	-4.03	33.66	54	-20.34	AV	Н
7386.000	48.78	1.66	50.44	74	-23.56	PK	Н
7386.000	32.92	1.66	34.58	54	-19.42	AV	Н
4924.000	51.86	-4.03	47.83	74	-26.17	PK	V
4924.000	35.21	-4.03	31.18	54	-22.82	AV	V
7386.000	50.01	1.66	51.67	74	-22.33	PK	V
7386.000	32.72	1.66	34.38	54	-19.62	AV	V





Test m	Test mode:		802.11g(6Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
4824.000	55.02	-4.26	50.76	74	-23.24	PK	Н	
4824.000	36.63	-4.26	32.37	54	-21.63	AV	Н	
7236.000	50.50	1.18	51.68	74	-22.32	PK	Н	
7236.000	33.91	1.18	35.09	54	-18.91	AV	Н	
4824.000	52.09	-4.26	47.83	74	-26.17	PK	V	
4824.000	35.67	-4.26	31.41	54	-22.59	AV	V	
7236.000	47.84	1.18	49.02	74	-24.98	PK	V	
7236.000	33.76	1.18	34.94	54	-19.06	AV	V	

Test m	Test mode:		802.11g(6Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
4874.000	54.72	-4.12	50.60	74	-23.40	PK	Н	
4874.000	35.16	-4.12	31.04	54	-22.96	AV	Н	
7311.000	50.41	1.46	51.87	74	-22.13	PK	Н	
7311.000	34.76	1.46	36.22	54	-17.78	AV	Н	
4874.000	52.12	-4.12	48.00	74	-26.00	PK	V	
4874.000	35.26	-4.12	31.14	54	-22.86	AV	V	
7311.000	48.17	1.46	49.63	74	-24.37	PK	V	
7311.000	32.91	1.46	34.37	54	-19.63	AV	V	

Test m	Test mode:		802.11g(6Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
4924.000	55.26	-4.03	51.23	74	-22.77	PK	Н	
4924.000	37.35	-4.03	33.32	54	-20.68	AV	Н	
7386.000	50.62	1.66	52.28	74	-21.72	PK	Н	
7386.000	35.03	1.66	36.69	54	-17.31	AV	Н	
4924.000	53.12	-4.03	49.09	74	-24.91	PK	V	
4924.000	35.46	-4.03	31.43	54	-22.57	AV	V	
7386.000	49.23	1.66	50.89	74	-23.11	PK	V	
7386.000	33.66	1.66	35.32	54	-18.68	AV	V	





Test m	ode:	802.11n(6.5Mbps)	Test ch	nannel:	Low	vest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4824.000	53.55	-4.26	49.29	74	-24.71	PK	Н
4824.000	36.24	-4.26	31.98	54	-22.02	AV	Н
7236.000	48.76	1.18	49.94	74	-24.06	PK	Н
7236.000	35.02	1.18	36.20	54	-17.80	AV	Н
4824.000	51.24	-4.26	46.98	74	-27.02	PK	V
4824.000	36.13	-4.26	31.87	54	-22.13	AV	V
7236.000	47.90	1.18	49.08	74	-24.92	PK	V
7236.000	31.69	1.18	32.87	54	-21.13	AV	V

Test mode:		802.11n(802.11n(6.5Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
4874.000	56.34	-4.12	52.22	74	-21.78	PK	Н	
4874.000	37.90	-4.12	33.78	54	-20.22	AV	Н	
7311.000	48.23	1.46	49.69	74	-24.31	PK	Н	
7311.000	34.41	1.46	35.87	54	-18.13	AV	Н	
4874.000	53.14	-4.12	49.02	74	-24.98	PK	V	
4874.000	35.75	-4.12	31.63	54	-22.37	AV	V	
7311.000	49.25	1.46	50.71	74	-23.29	PK	V	
7311.000	32.20	1.46	33.66	54	-20.34	AV	V	

Test m	Test mode:		6.5Mbps)	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
4924.000	55.14	-4.03	51.11	74	-22.89	PK	Н
4924.000	35.28	-4.03	31.25	54	-22.75	AV	Н
7386.000	49.36	1.66	51.02	74	-22.98	PK	Н
7386.000	33.02	1.66	34.68	54	-19.32	AV	Н
4924.000	50.67	-4.03	46.64	74	-27.36	PK	V
4924.000	36.22	-4.03	32.19	54	-21.81	AV	V
7386.000	49.79	1.66	51.45	74	-22.55	PK	V
7386.000	33.57	1.66	35.23	54	-18.77	AV	V





Test m	ode:	802.11n40)(13.5Mbps)	Test ch	nannel:	Lov	vest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4844.000	53.78	-4.2	49.58	74	-24.42	PK	Н
4844.000	35.51	-4.2	31.31	54	-22.69	AV	Н
7266.000	48.77	1.18	49.95	74	-24.05	PK	Н
7266.000	32.23	1.18	33.41	54	-20.59	AV	Н
4844.000	53.05	-4.2	48.85	74	-25.15	PK	V
4844.000	37.40	-4.2	33.20	54	-20.80	AV	V
7266.000	49.80	1.18	50.98	74	-23.02	PK	V
7266.000	32.87	1.18	34.05	54	-19.95	AV	V

Test m	ode:	802.11n40	(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)	Type	H/V
4874.000	55.57	-4.12	51.45	74	-22.55	PK	Н
4874.000	37.74	-4.12	33.62	54	-20.38	AV	Н
7311.000	49.13	1.46	50.59	74	-23.41	PK	Н
7311.000	34.44	1.46	35.90	54	-18.10	AV	Н
4874.000	52.77	-4.12	48.65	74	-25.35	PK	V
4874.000	35.42	-4.12	31.30	54	-22.70	AV	V
7311.000	48.03	1.46	49.49	74	-24.51	PK	V
7311.000	33.49	1.46	34.95	54	-19.05	AV	V

Test m	ode:	802.11n40	0(13.5Mbps)	Test ch	nannel:	High	nest
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
4904.000	54.15	-4.03	50.12	74	-23.88	PK	Н
4904.000	36.96	-4.03	32.93	54	-21.07	AV	Н
7356.000	50.39	1.66	52.05	74	-21.95	PK	Н
7356.000	33.63	1.66	35.29	54	-18.71	AV	Н
4904.000	52.86	-4.03	48.83	74	-25.17	PK	V
4904.000	35.61	-4.03	31.58	54	-22.42	AV	V
7356.000	48.69	1.66	50.35	74	-23.65	PK	V
7356.000	33.31	1.66	34.97	54	-19.03	AV	V



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Remark:

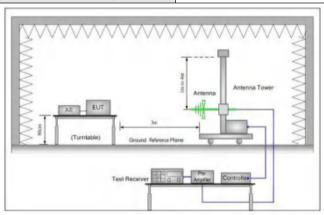
- 1) The 1Mbps of rate of 802.11b is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor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



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5.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3n	Measurement 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						
	Above IGHZ	74.0	Peak Value						
Test Setup:		_							



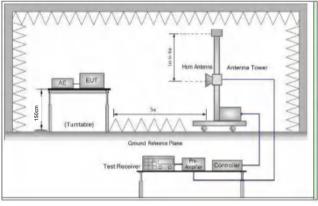


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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: 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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

Test Procedure:

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.				
Foods as to make the state of the state of	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				



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Test data:

Worse case	mode:	802.11b(1N	Mbps)	Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
2390.000	59.83	-9.2	50.63	74	-23.37	PK	Н
2390.000	45.00	-9.2	35.80	54	-18.20	AV	Н
2400.000	59.28	-9.39	49.89	74	-24.11	PK	Н
2400.000	40.11	-9.39	30.72	54	-23.28	AV	Н
2390.000	59.23	-9.2	50.03	74	-23.97	PK	V
2390.000	44.58	-9.2	35.38	54	-18.62	AV	V
2400.000	60.61	-9.39	51.22	74	-22.78	PK	V
2400.000	42.32	-9.39	32.93	54	-21.07	AV	V

Worse case	mode:	802.11b(1N	Mbps)	Test chann	iel:	Highest	
	Meter		Emission				Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.500	60.03	-9.29	50.74	74	-23.26	PK	Н
2483.500	43.94	-9.29	34.65	54	-19.35	AV	Н
2483.500	58.51	-9.29	49.22	74	-24.78	PK	V
2483.500	40.28	-9.29	30.99	54	-23.01	AV	V



Worse case	mode:	802.11g(6N	Mbps)	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	59.93	-9.2	50.73	74	-23.27	PK	Н
2390.000	43.42	-9.2	34.22	54	-19.78	AV	Н
2400.000	58.61	-9.39	49.22	74	-24.78	PK	Н
2400.000	40.43	-9.39	31.04	54	-22.96	AV	Н
2390.000	59.18	-9.2	49.98	74	-24.02	PK	V
2390.000	42.30	-9.2	33.10	54	-20.90	AV	V
2400.000	59.09	-9.39	49.70	74	-24.30	PK	V
2400.000	40.74	-9.39	31.35	54	-22.65	AV	V

Worse case	Worse case mode:		Mbps)	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	58.58	-9.29	49.29	74	-24.71	PK	Н
2483.500	42.49	-9.29	33.20	54	-20.80	AV	Н
2483.500	60.20	-9.29	50.91	74	-23.09	PK	V
2483.500	41.21	-9.29	31.92	54	-22.08	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	58.62	-9.2	49.42	74	-24.58	PK	Н
2390.000	44.02	-9.2	34.82	54	-19.18	AV	Н
2400.000	58.94	-9.39	49.55	74	-24.45	PK	Н
2400.000	41.12	-9.39	31.73	54	-22.27	AV	Н
2390.000	59.53	-9.2	50.33	74	-23.67	PK	V
2390.000	44.38	-9.2	35.18	54	-18.82	AV	V
2400.000	60.08	-9.39	50.69	74	-23.31	PK	V
2400.000	40.64	-9.39	31.25	54	-22.75	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)	Type	H/V
2483.500	59.61	-9.29	50.32	74	-23.68	PK	Н
2483.500	43.54	-9.29	34.25	54	-19.75	AV	Н
2483.500	60.29	-9.29	51.00	74	-23.00	PK	V
2483.500	42.64	-9.29	33.35	54	-20.65	AV	V



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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	60.61	-9.2	51.41	74	-22.59	PK	Н
2390.000	44.47	-9.2	35.27	54	-18.73	AV	Н
2400.000	58.80	-9.39	49.41	74	-24.59	PK	Н
2400.000	42.40	-9.39	33.01	54	-20.99	AV	Н
2390.000	59.97	-9.2	50.77	74	-23.23	PK	V
2390.000	44.02	-9.2	34.82	54	-19.18	AV	V
2400.000	60.18	-9.39	50.79	74	-23.21	PK	V
2400.000	42.46	-9.39	33.07	54	-20.93	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)	Type	H/V
2483.500	61.32	-9.29	52.03	74	-21.97	PK	Н
2483.500	43.24	-9.29	33.95	54	-20.05	AV	Н
2483.500	60.66	-9.29	51.37	74	-22.63	PK	V
2483.500	41.94	-9.29	32.65	54	-21.35	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.: CQASZ20210500028EX-01

THE END