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Test Report

Report No.: CQASZ20210100003EX-01

Applicant: SHENZHEN AMEDIATECH TECHNOLOGY CO.,LTD

Address of Applicant: No.01, 2/F, A Plant, Block B, Minsheng Industrial Park, Longmei Road, Gaofeng

community, Dalang office, Longhua District, Shenzhen, China

Manufacturer: SHENZHEN AMEDIATECH TECHNOLOGY CO.,LTD

Address of No.01, 2/F, A Plant, Block B, Minsheng Industrial Park, Longmei Road, Gaofeng

Manufacturer:

community, Dalang office, Longhua District, Shenzhen, China

Equipment Under Test (EUT):

Product: Set Top Box

Test Model No.: X96Q PRO

Brand Name: N/A

FCC ID: 2AI6D-X96QPRO

Standards: 47 CFR FCC Part 15 Subpart C 15.247

Date of Test: Jan. 04, 2021 – Jan. 31, 2021

Date of Issue: Jan. 31, 2021

Test Result: PASS

Tested By:

(Jun Li)

Reviewed By:

(Ares Liu)

Approved By: Sheek Luc

(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
CQASZ20210100003EX-01	Rev.01	Initial report	Jan. 31, 2021



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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 AMEDIATECH TECHNOLOGY CO.,LTD	
Address of Applicant:	No.01, 2/F, A Plant, Block B, Minsheng Industrial Park, Longmei Road,	
Address of Applicant.	Gaofeng community, Dalang office, Longhua District, Shenzhen, China	
Manufacturer: SHENZHEN AMEDIATECH TECHNOLOGY CO.,LTD		
Address of Manufacturer	No.01, 2/F, A Plant, Block B, Minsheng Industrial Park, Longmei Road,	
Address of Manufacturer:	Gaofeng community, Dalang office, Longhua District, Shenzhen, China	

4.2 General Description of EUT

Product Name:	Set Top Box
Test Model No.:	X96Q PRO
Trade Mark:	N/A
Hardware Version:	V1.1
Software Version:	V1.0
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz 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	IPEX Antenna
Antenna Gain	0dBi
Power Supply:	DC 5V from adapter
Adapter Information:	AC/DC ADAPTER MODEL:TSL-1681 INPUT:110-240V AC 50/60Hz 0.3A OUTPUT: DC 5v 2A

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							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 individual

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	ditions)			
Temperature:		25.1 °C~25.5 °C			
Humidity:		51 % RH~55 % RH			
Atmospheric Pressu	ure:	992mbar			
RF item test (RF t	est room Norm	al Conditions)			
Temperature:		26 °C~27.3 °C			
Humidity:		58 % RH~59 % RH			
Atmospheric Pressu	ure:	992mbar			
Transmitting mode:	Use test software to set the lowest frequency, the middle frequency and the				
	highest frequency keep transmitting of the EUT.				
	Note: In the pr	ocess of transmitting of EUT, the duty cycle > 98%.			



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4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
AC/DC ADAPTER	/	MODEL:TSL-1681 INPUT:110-240V AC 50/60Hz 0.3A OUTPUT: DC 5v 2A	Provide by applicant	SDOC
/	/	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.

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

Toot Fauinment	Manufacturer	Model No.	Instrument	Calibration	Calibration
Test Equipment			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
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2020/11/2	2021/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2019/10/28	2021/10/27
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.



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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 IFIA 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			
	Limit (dBuV)			
Limit:	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
Limit.	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithn			
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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, 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 was bonded to the horizontal 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. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 			
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 AC Ground Reference Plane	Test Receiver	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.			
Final Test Mode:	All wifi modes of 5.2G/5.8G	were tested at Low, Mi	iddle, and High channel;	

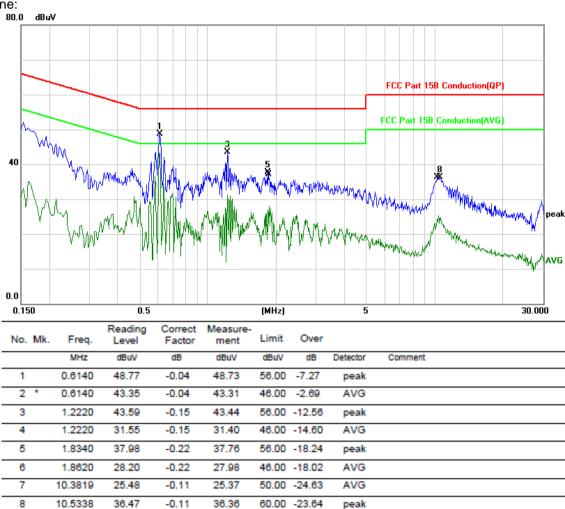


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	only the worst result of 802.11b CH11 was reported as below
Test Voltage:	AC110V/60Hz
Test Results:	Pass

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.



Neutral Line: 80.0 dBuV FCC Part 15B Conduction(QP) FCC Part 15B Conduction(AVG) 0.00.150 0.5 5 30.000 (MHz) Reading Correct Measure-No. Mk. Freq. Limit Over Factor Level ment MHz dBuV dΒ dBuV dBuV dΒ Detector Comment 1 0.6100 54.06 0.33 54.39 56.00 -1.61 peak 2 40.86 AVG 0.6100 0.33 41.19 46.00 -4.81 26.01 0.9700 0.29 26.30 46.00 -19.70 AVG 3 4 1.0140 43.44 0.29 43.73 56.00 -12.27 peak 5 1.5580 22.55 0.21 22.76 46.00 -23.24 AVG 6 1.5900 41.24 0.21 41.45 56.00 -14.55 peak 3.6220 39.13 -0.05 39.08 56.00 -16.92 peak 8 3.6220 20.93 -0.05 20.88 46.00 -25.12 AVG

Remark:

9

10

10.6019

10.6019

41.04

21.32

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

41.15

21.43

60.00 -18.85

50.00 -28.57

peak

AVG

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

0.11

0.11

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		

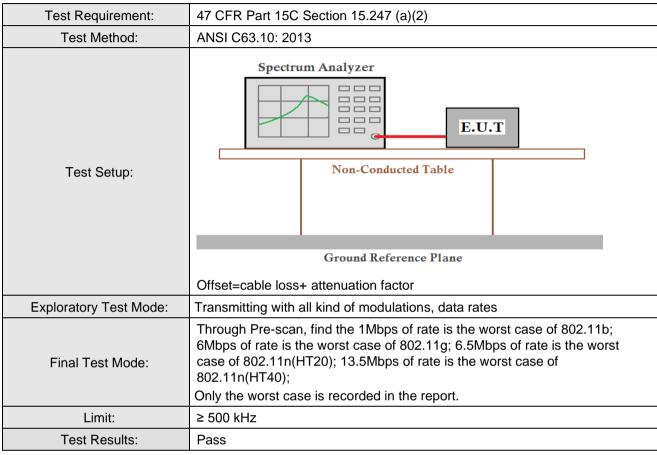
WIFI(2.4G)

Туре	Test channel	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Result
	Lowest	13.59	10.54		
802.11b	Middle	13.37	10.61	30.00	Pass
	Highest	13.29	10.38		
	Lowest	11.60	8.76		
802.11g	Middle	11.96	8.69	30.00	Pass
	Highest	11.27	9.04		
	Lowest	10.91	6.67		
802.11n(HT20)	Middle	10.20	6.71	30.00	Pass
	Highest	10.47	6.53		
802.11n(HT40)	Lowest	9.32	3.97		
	Middle	10.90	4.13	30.00	Pass
	Highest	9.38	4.28		

Note: 1.The test results including the cable lose.



5.4 6dB Occupy Bandwidth

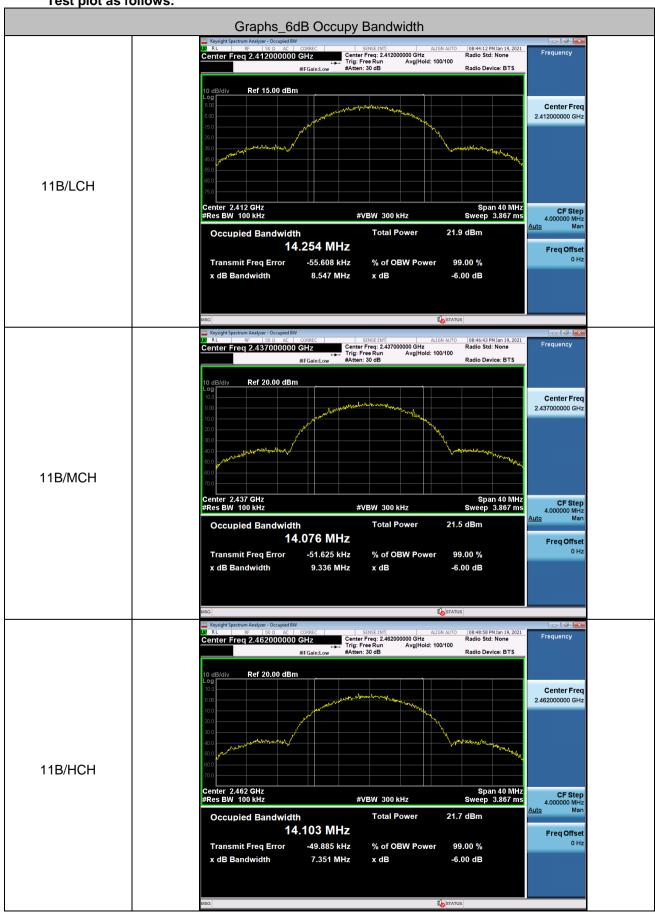


Measurement Data

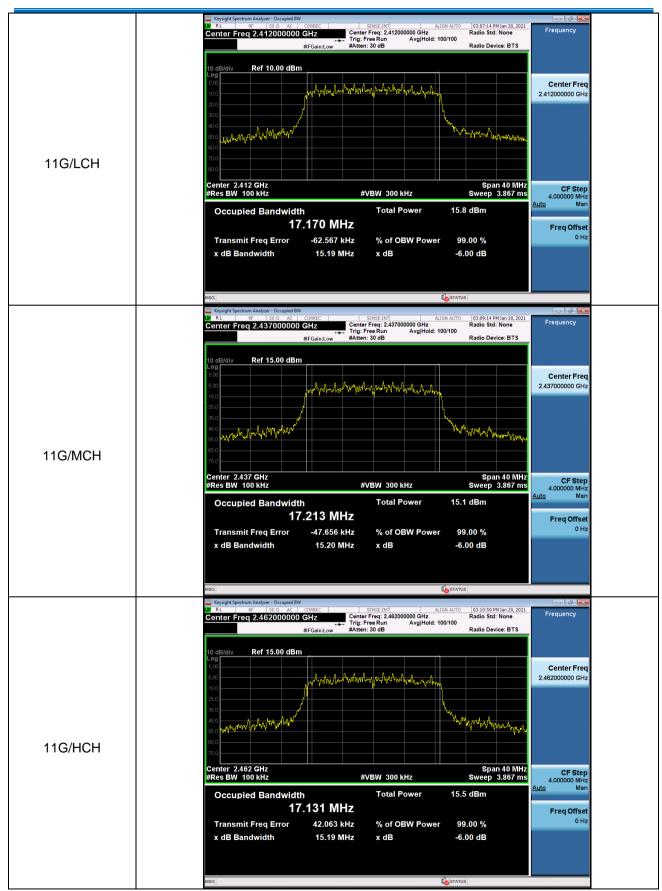
Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
	Lowest	8.547		
802.11b	Middle	9.336	≥500	Pass
	Highest	7.351		
	Lowest	15.19		
802.11g	Middle	15.20	≥500	Pass
	Highest	15.19		
	Lowest	16.36		
802.11n(HT20)	Middle	16.01	≥500	Pass
	Highest	16.35		
	Lowest	35.22		
802.11n(HT40)	Middle	35.25	≥500	Pass
	Highest	35.25		



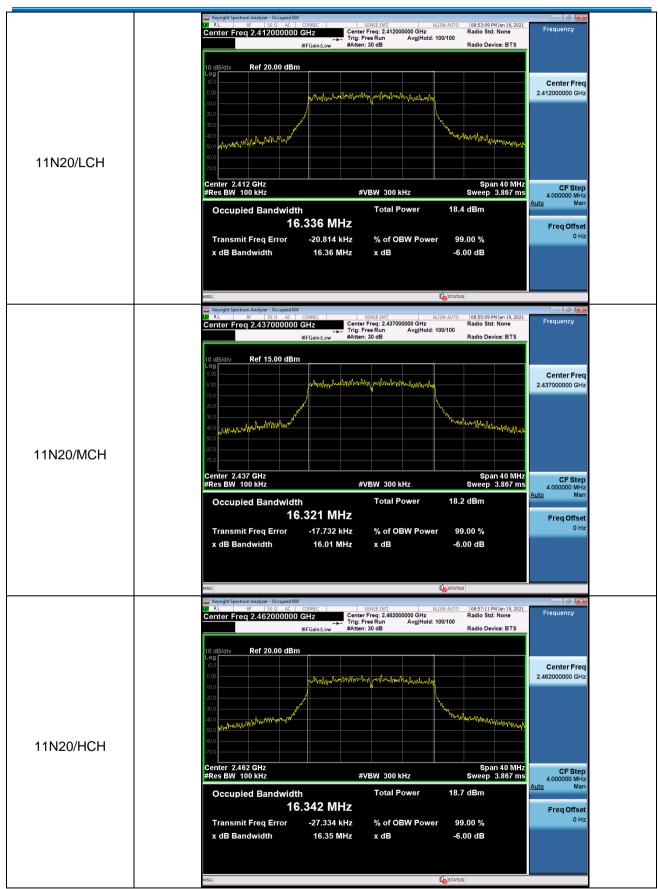










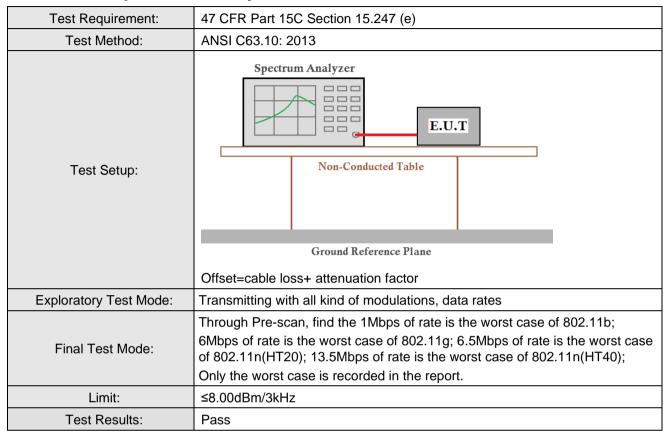






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5.5 Power Spectral Density



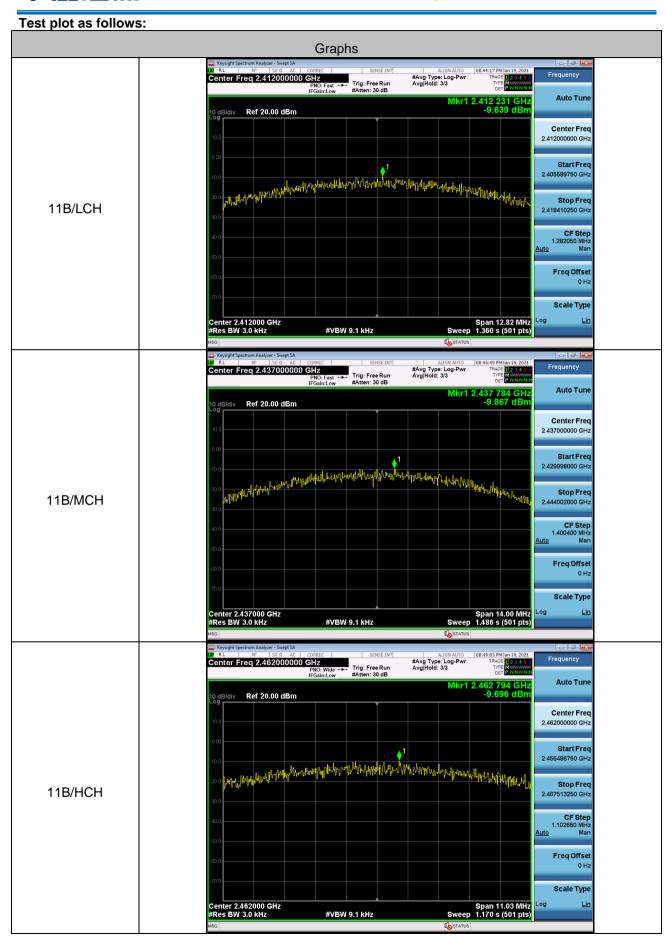


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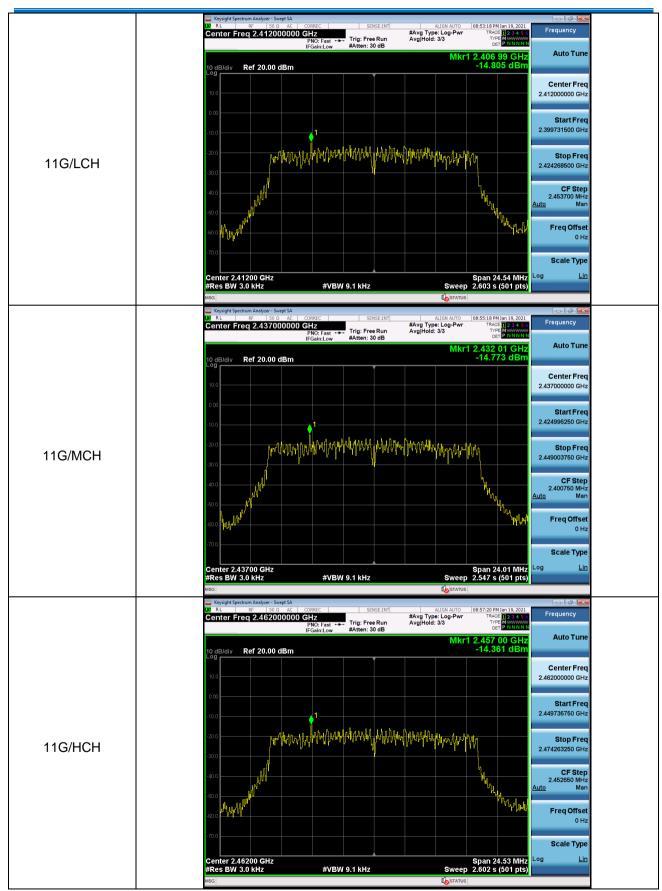
Measurement Data

Туре	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
	Lowest	-9.639		
802.1 b	Middle	-9.867	8	Pass
	Highest	-9.696		
	Lowest	-14.805		
802.11g	Middle	-14.773	8	Pass
	Highest	-14.361		
	Lowest	-19.709		
802.11n(HT20)	Middle	-20.485	8	Pass
	Highest	-19.829		
	Lowest	-21.663		
802.11n(HT40)	Middle	-22.371	8	Pass
	Highest	-22.156		

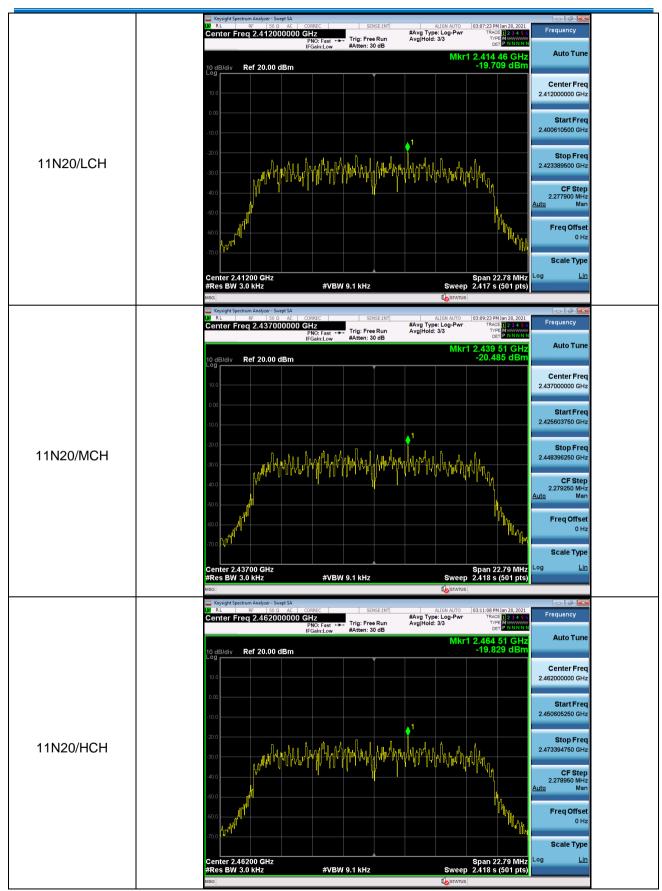




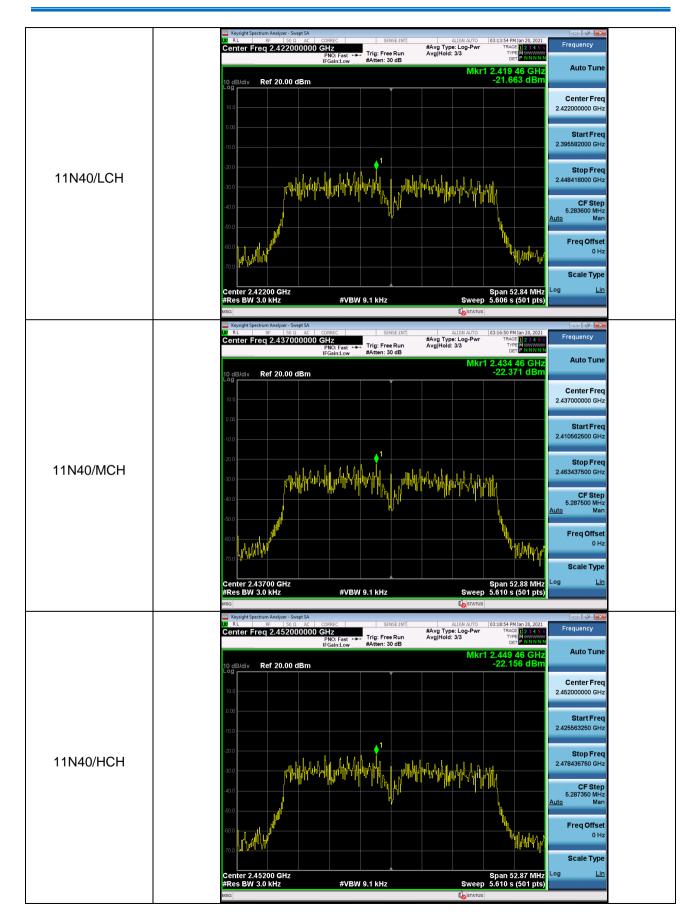








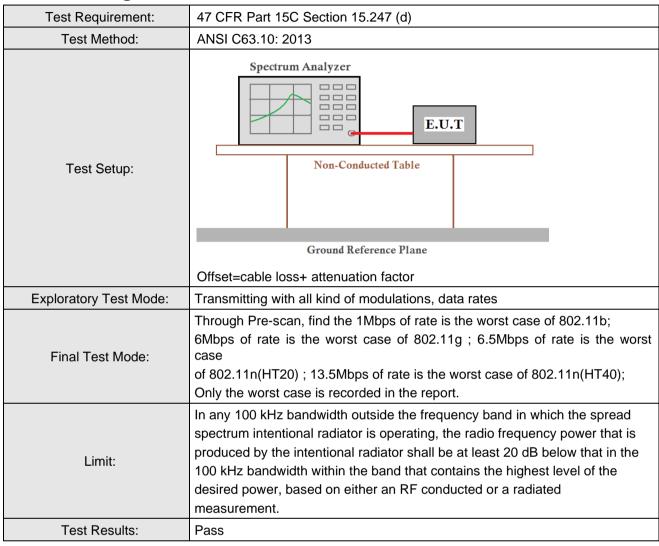




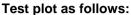


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5.6 Band-edge for RF Conducted Emissions

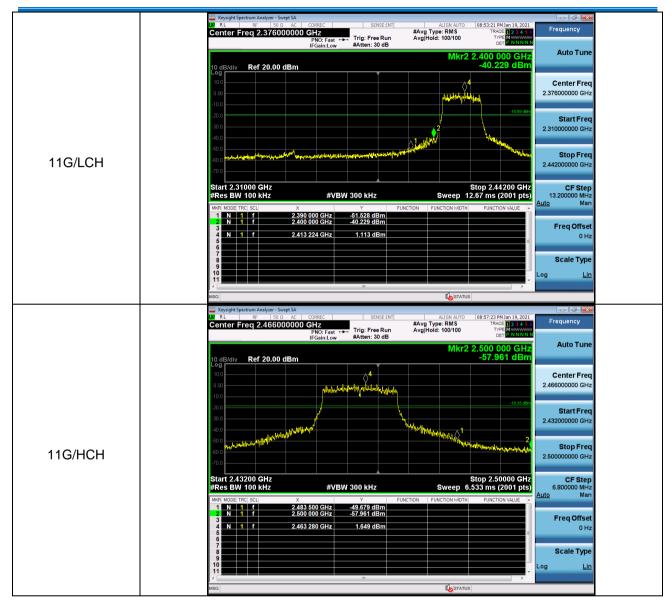




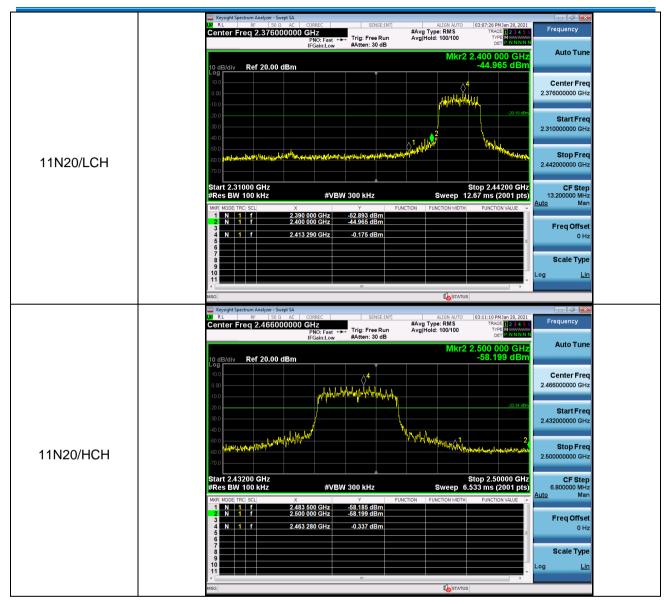












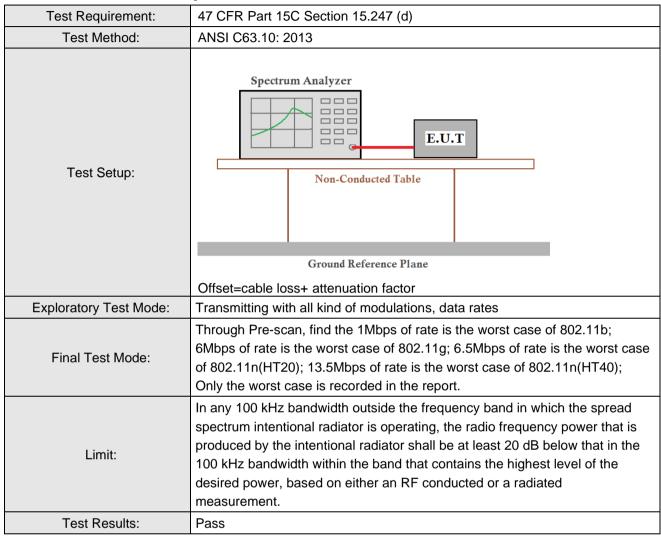




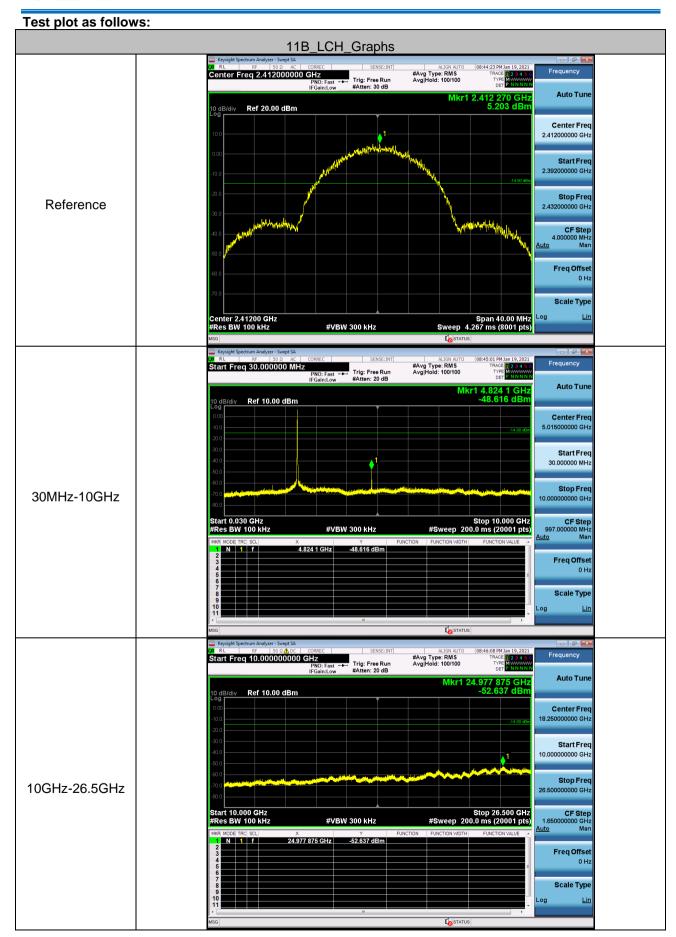


Report No.: CQASZ20210100003EX-01

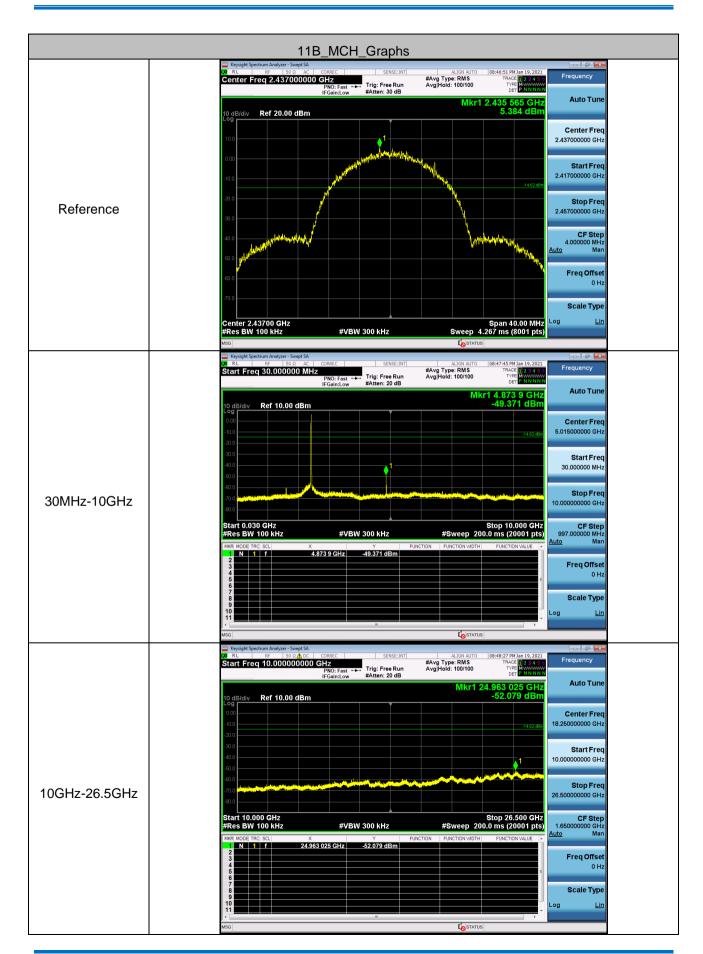
5.7 RF Conducted Spurious Emissions



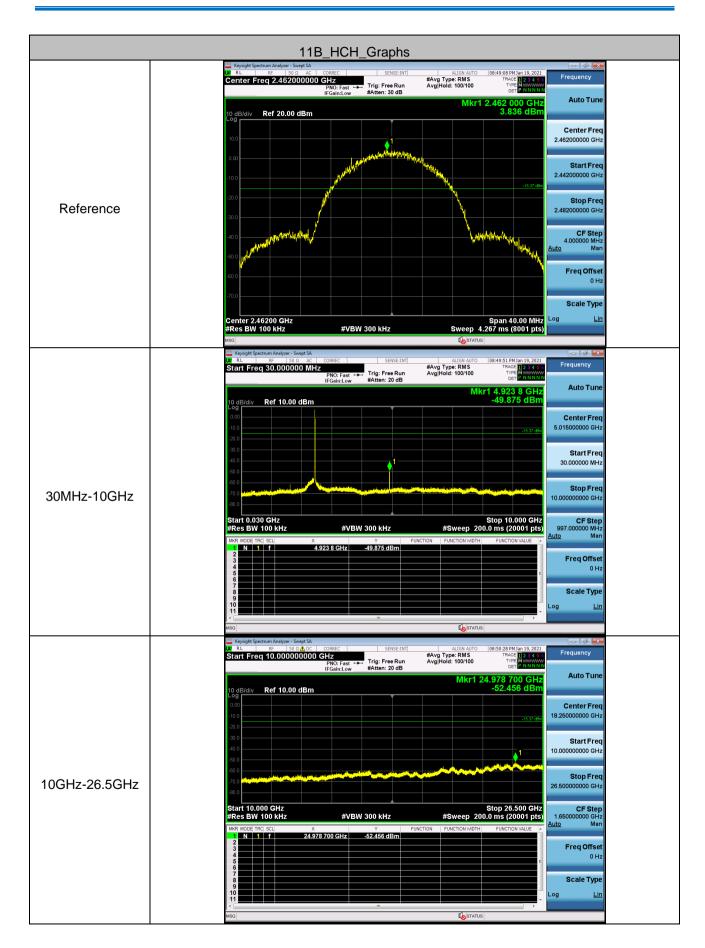




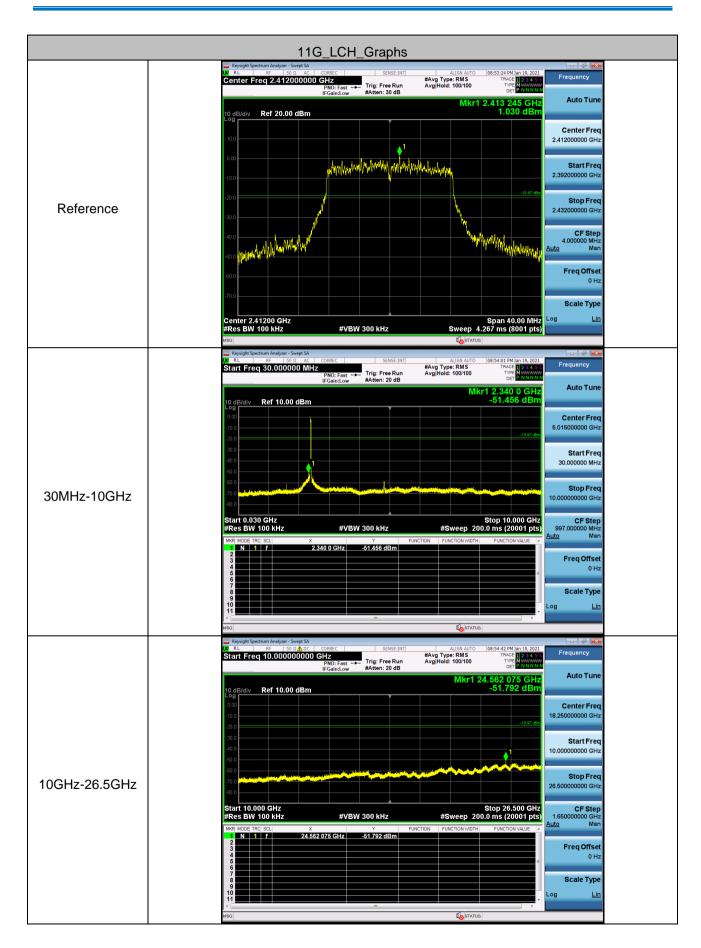




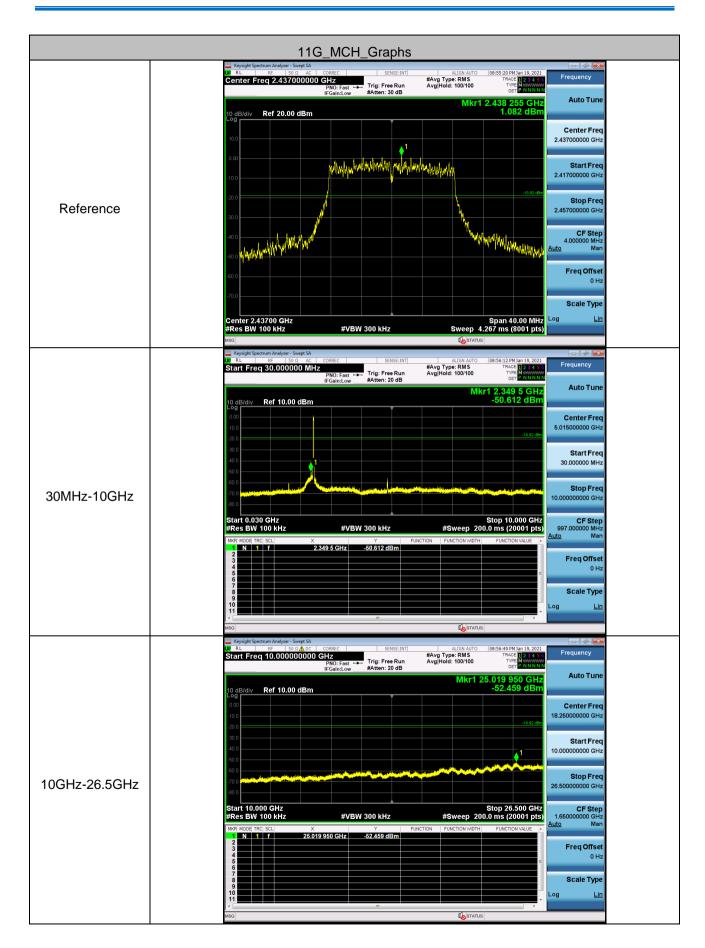




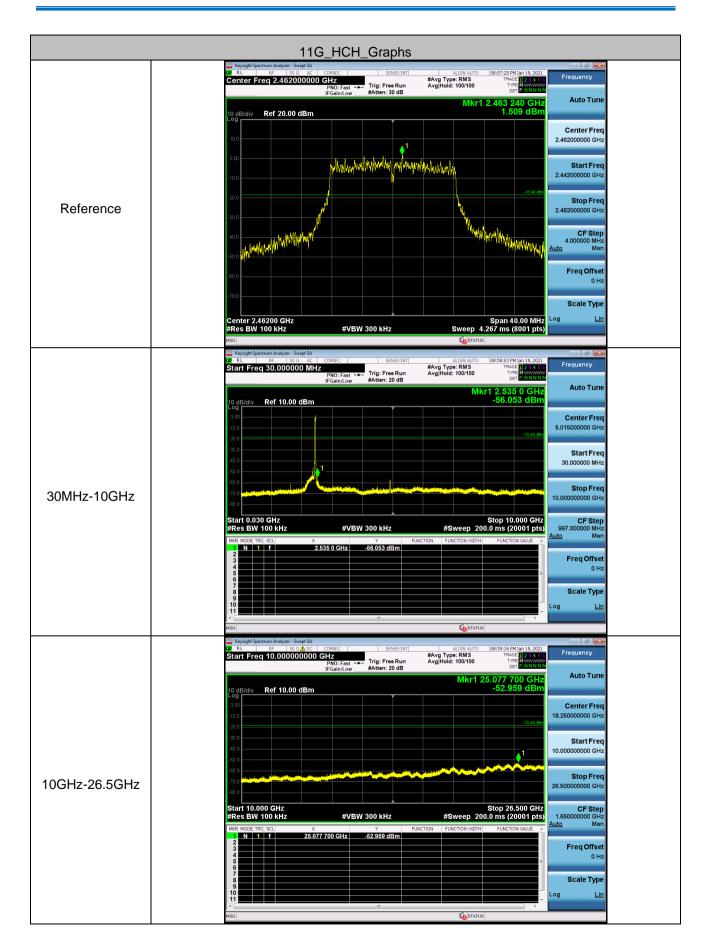




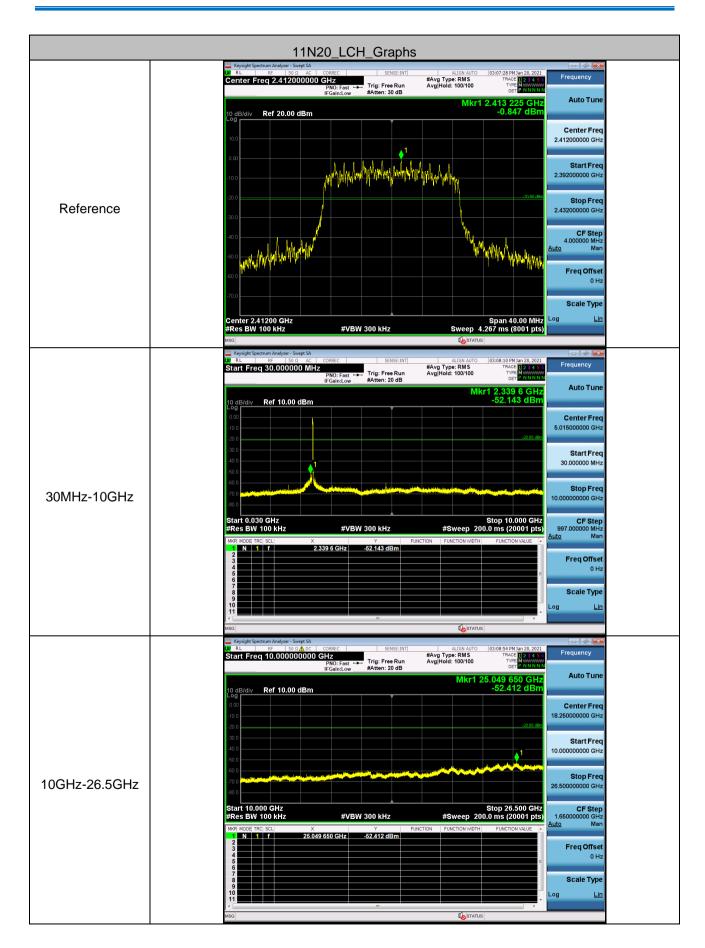




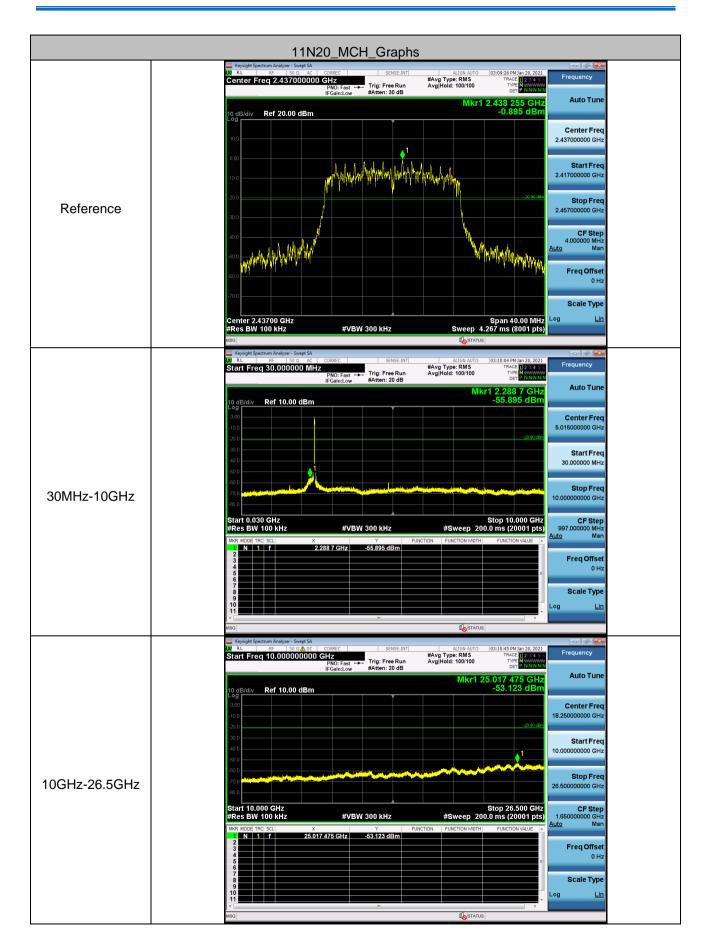




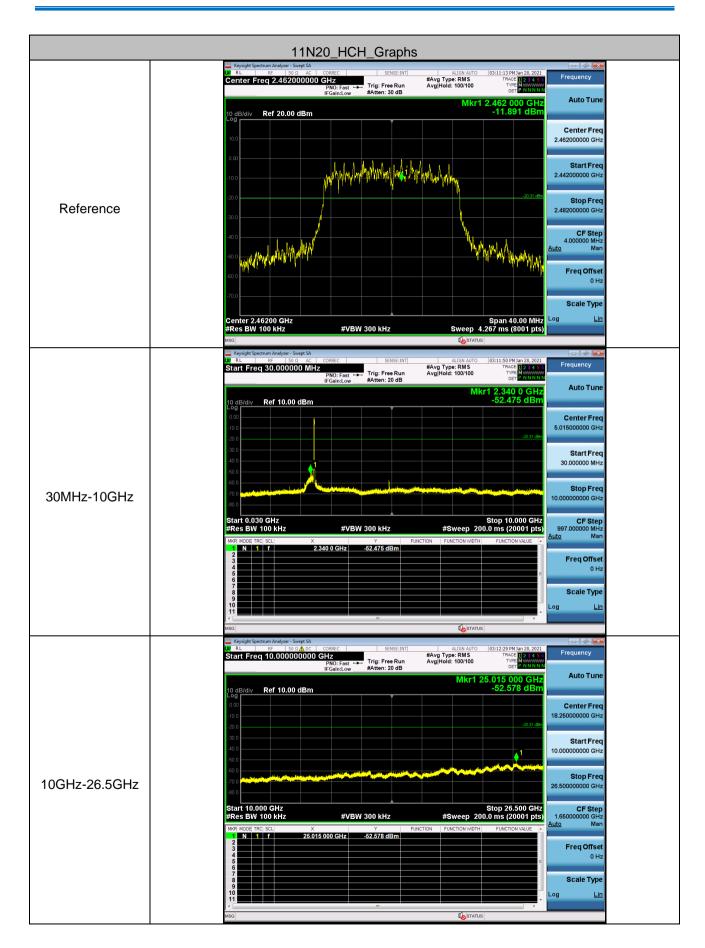




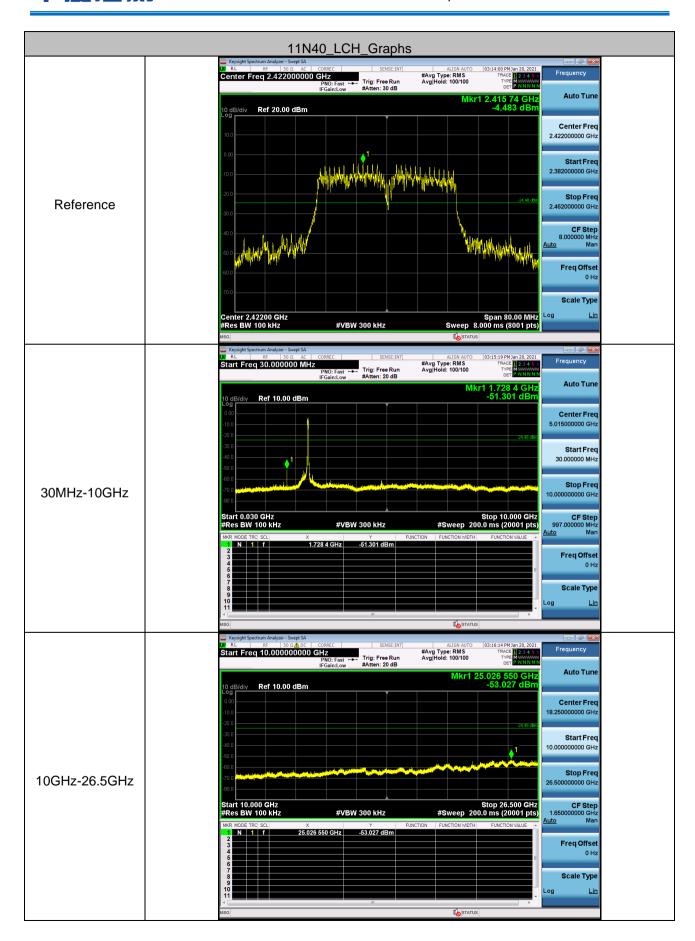




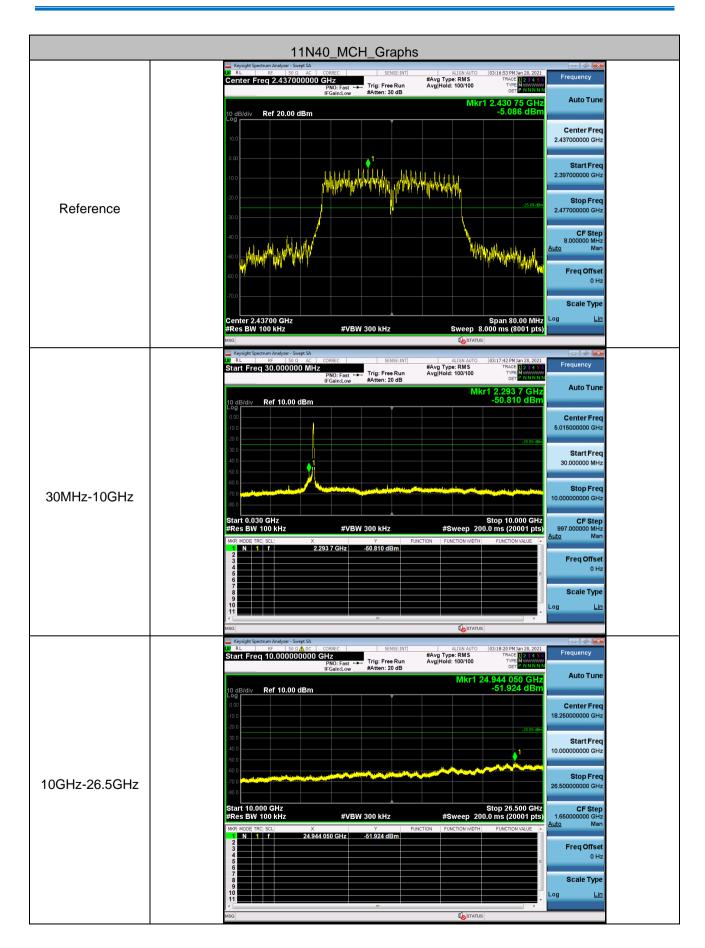




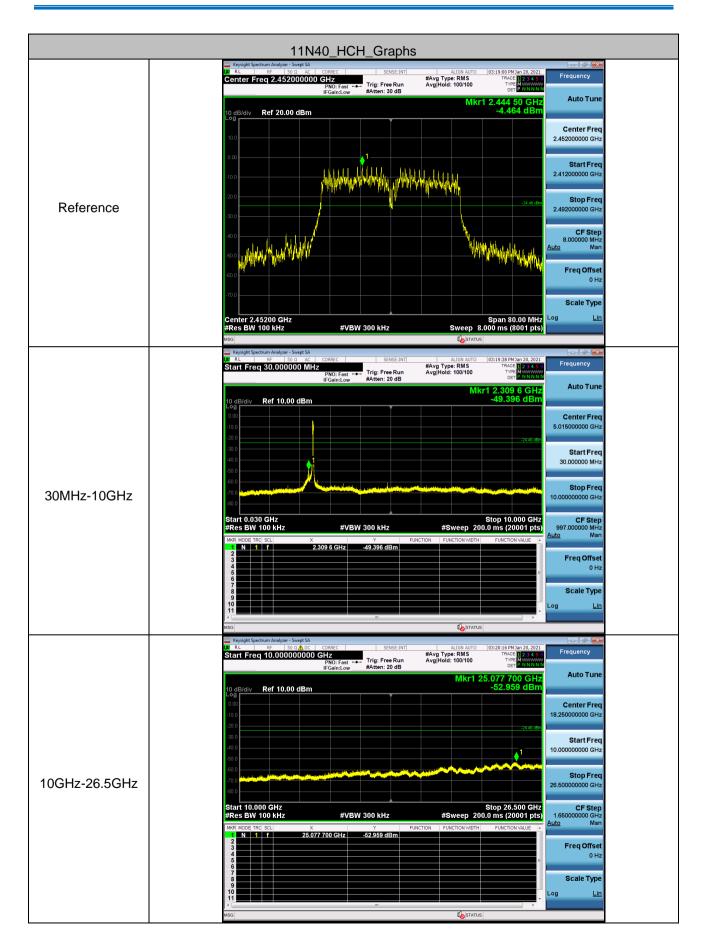














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Remark:

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.



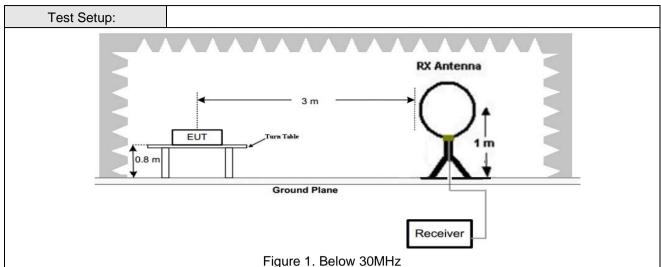
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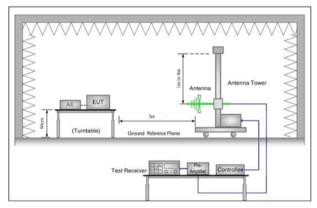
5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 2013						
Test Site:	Measurement Distance: 3m (Semi-Anechoic 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		
	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		
Ziiiii.	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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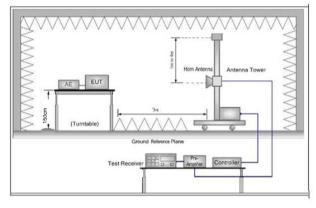


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 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 measurement.

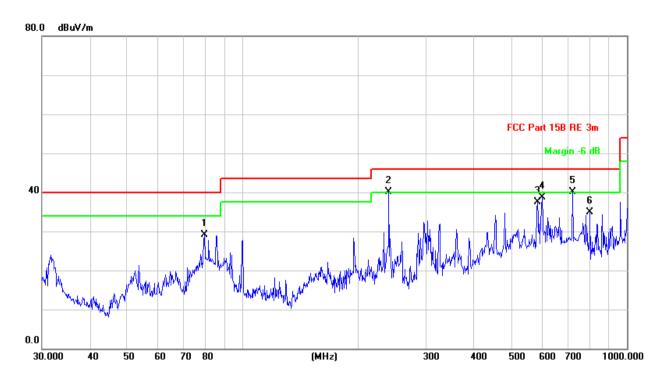


	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum 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.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode,	
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) 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



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		79.5207	47.76	-18.65	29.11	40.00	-10.89	QP			
2	į	239.9874	53.48	-13.34	40.14	46.00	-5.86	QP			
3		584.7894	42.03	-4.56	37.47	46.00	-8.53	QP			
4		601.4265	42.87	-4.16	38.71	46.00	-7.29	QP			
5	*	721.7259	42.52	-2.34	40.18	46.00	-5.82	QP			
6		801.7862	35.99	-1.00	34.99	46.00	-11.01	QP			

Remark:

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

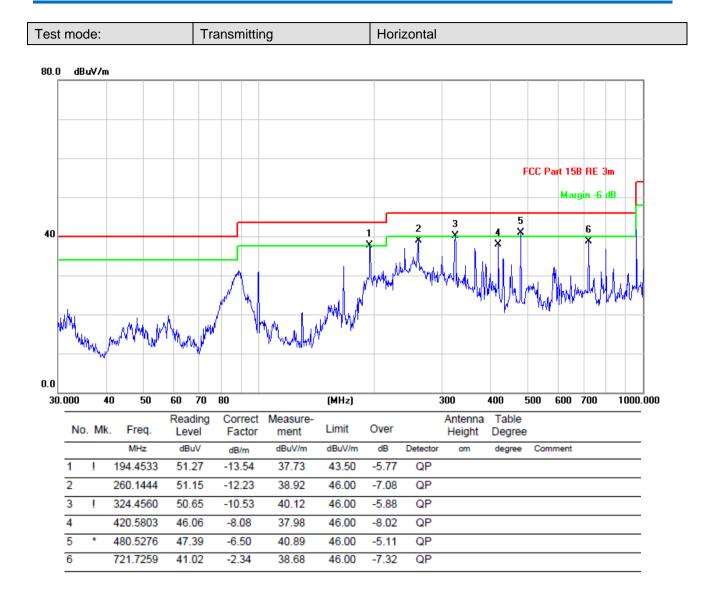
Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

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.