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

# TEST REPORT

Report No.: CQASZ20231101977E-02
Applicant: Hesung Innovation Limited

Address of Applicant: Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon,

HongKong

**Equipment Under Test (EUT):** 

**Product:** ChefMaker

Model No.: DR-KCM001AS, WDR-CM001AS, DTCM01AS, DWCM01AS, DCCM01AS,

DBCM01AS

Test Model No.: DR-KCM001AS

Brand Name: DREO

FCC ID: 2A3SYKCM001AS

**Standards:** 47 CFR Part 15, Subpart C

**Date of Receipt**: 2023-11-01

**Date of Test:** 2023-11-01 to 2023-11-10

**Date of Issue**: 2023-12-27

Test Result : PASS\*

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

Tested By:

(Lewis Zhou)

Reviewed By:

( Timo Lei )

Approved By: (Jack Ai)

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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.



Report No.: CQASZ20231101977E-02

# 1 Version

## **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20231101977E-02	Rev.01	Initial report	2023-12-27



## 2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10-2013	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2013	PASS

#### Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application



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# 4 General Information

### 4.1 Client Information

Applicant:	Hesung Innovation Limited
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon, HongKong
Manufacturer:	Shenzhen Hesung Innovation Technology Co., LTD
Address of Manufacturer:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, Nanshan District, Shenzhen
Factory:	Shenzhen Hesung Innovation Technology Co., LTD
Address of Factory:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, Nanshan District, Shenzhen

# 4.2 General Description of EUT

Product Name:	ChefMaker
Model No.:	DR-KCM001AS, WDR-CM001AS, DTCM01AS, DWCM01AS, DCCM01AS, DBCM01AS
Test Model No.:	DR-KCM001AS
Trade Mark:	DREO
Software Version:	V1.0
Hardware Version:	PAI-060 V1.3 2022-09-07
Power Supply:	Power supply AC120V
EUT Supports Radios	BLE: 2402-2480MHz
application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz;
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.
	⊠ Simultaneous TX is not supported.

# 4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels	
Channel Separation:	5MHz	
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)	
· ·	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)	
	IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)	
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g:	
	6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) :	
	6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps	
Product Type:	⊠ Mobile ☐ Portable	
Test Software of EUT:	Wifi Test Tool1.7.2	
Antenna Type:	FPC antenna	
Antenna Gain:	4.3dBi	



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

#### Note:

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

### For 802.11b/g/n (HT20):

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

#### Note

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



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## 4.4 Test Environment and Mode

Operating Environment:		
Radiated Emissions:		
Temperature:	25.3 °C	
Humidity:	55 % RH	
Atmospheric Pressure:	1009 mbar	
Conducted Emissions:		
Temperature:	25.6 °C	
Humidity:	60 % RH	
Atmospheric Pressure:	1009 mbar	
Radio conducted item tes	t (RF Conducted test room):	
Temperature:	25.5 °C	
Humidity:	52 % RH	
Atmospheric Pressure:	1009 mbar	
Test mode:		
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandwidt and data rate, etc.	
Wifi - Tx	TX Setting CW FALSE BLE Pattern Continuous PRBS9  Mode Length Auto TXPwr Auto BLE RX Packet Total pkt Save Xtal C in Flash  PER	
Hex Send Hex Send Send	Clear display	



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## 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
1	/	1	1	1

2) Cable

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

### 4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

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

### 4.7 Test Facility

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

#### • A2LA (Certificate No. 4742.01)

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

#### • FCC Registration No.: 522263

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





### 4.8 Statement of the measurement uncertainty

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

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

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

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

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 <sup>-8</sup>	(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)

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

### 4.9 Deviation from Standards

None.

### 4.10 Abnormalities from Standard Conditions

None.

## 4.11 Other Information Requested by the Customer

None.



# 4.12 Equipment List

			14	0-1:14:	0-1:14:
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08	2024/09/07
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2023/09/08	2024/09/07
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2023/09/08	2024/09/07
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2023/09/08	2024/09/07
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/09/08	2024/09/07
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08	2024/09/07
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2023/09/08	2024/09/07
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2023/09/08	2024/09/07

### Test software:

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



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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)

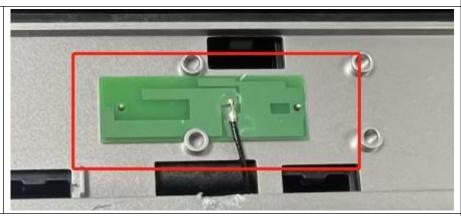
15.203 requirement:

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 FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling. This is either permanently attachment or a unique coupling that satisfies the requirement.



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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:	Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.				
Test Procedure:	<ol> <li>The mains terminal disturb room.</li> <li>The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS reference plane in the same way as to multiple socket outlet strip a single LISN provided the reasonable of the test was performed with of the EUT shall be 0.4 m for vertical ground reference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated experience of the EUT and associated experience.</li> <li>In order to find the maximule equipment and all of the interior.</li> </ol>	ance voltage test was a AC power source throetwork) which provides oles of all other units of N 2, which was bonded the LISN 1 for the unit was used to connect not ating of the LISN was reced upon a non-metallished for floor-standing arround reference plane, the a vertical ground referom the vertical ground referom the vertical ground reference plane. The total ground reference plane. The of the LISN 1 and the equipment was at least the terface cables must be	bugh a LISN 1 (Line a 50Ω/50μH + 5Ω line a f the EUT were d to the ground being measured. A nultiple power cables to not exceeded. It is table 0.8m above the rangement, the EUT was defended by the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. we positions of			
Test Setup:	Shielding Room  EUT  AC Mains  LISN1	Ground Reference Plane	Test Receiver			

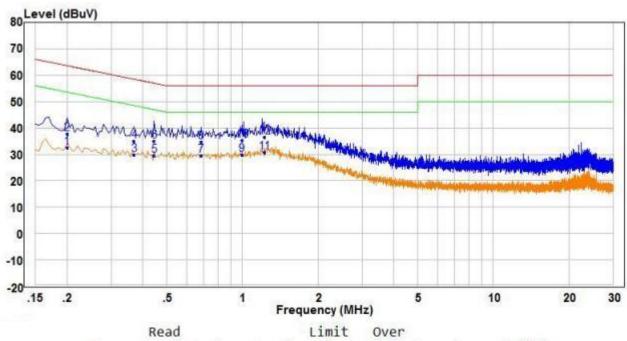


Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case.  Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test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



#### **Measurement Data**

#### Live Line:



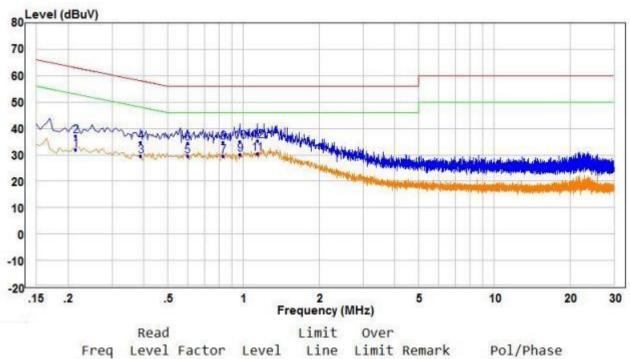
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
19	MHZ	dBuV	dB	dBuV	dBuV	dB		
1 (	0.200	21.93	10.61	32.54	53.61	-21.07	Average	Line
2	0.200	27.18	10.61	37.79	63.61	-25.82	QP	Line
	0.370	19.26	10.58	29.84	48.50	-18.66	Average	Line
4 6 5 6	0.370	24.57	10.58	35.15	58.50	-23.35	QP	Line
5	0.445	18.85	10.65	29.50	46.97	-17.47	Average	Line
6	0.445	24.34	10.65	34.99	56.97	-21.98	QP	Line
7	0.685	18.81	10.88	29.69	46.00	-16.31	Average	Line
	0.685	23.98	10.88	34.86	56.00	-21.14	QP	Line
9 (	0.995	19.20	10.70	29.90	46.00	-16.10	Average	Line
10	0.995	24.55	10.70	35.25	56.00	-20.75	QP	Line
11 PP	1.225	19.58	11.27	30.85	46.00	-15.15	Average	Line
12 QP	1.225	25.24	11.27	36.51	56.00	-19.49	QP	Line

#### 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:**



	Freq	rever	Factor	rever	rine	LIMIT	Remark	POI/Phase
-	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.215	21.37	10.59	31.96	53.01	-21.05	Average	Neutral
2	0.215	26.60	10.59	37.19	63.01	-25.82	QP	Neutral
3	0.390	18.97	10.59	29.56	48.06	-18.50	Average	Neutral
4	0.390	24.27	10.59	34.86	58.06	-23.20	QP	Neutral
5	0.600	18.71	10.80	29.51	46.00	-16.49	Average	Neutral
5 6	0.600	23.71	10.80	34.51	56.00	-21.49	QP	Neutral
7	0.830	18.81	10.81	29.62	46.00	-16.38	Average	Neutral
8	0.830	23.93	10.81	34.74	56.00	-21.26	QP	Neutral
9	0.970	19.40	10.72	30.12	46.00	-15.88	Average	Neutral
10	0.970	24.31	10.72	35.03	56.00	-20.97	QP	Neutral
11 PP	1.135	19.75	10.71	30.46	46.00	-15.54	Average	Neutral
12 QP	1.135	24.76	10.71	35.47	56.00	-20.53	QP	Neutral

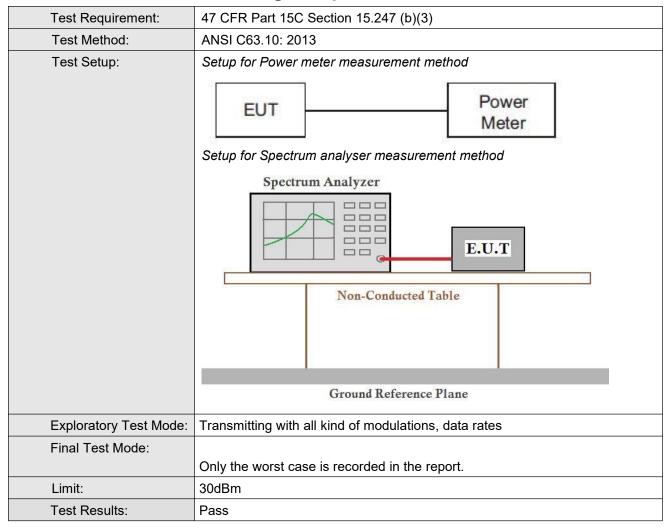
#### Remark:

- 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





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### **Test Result**

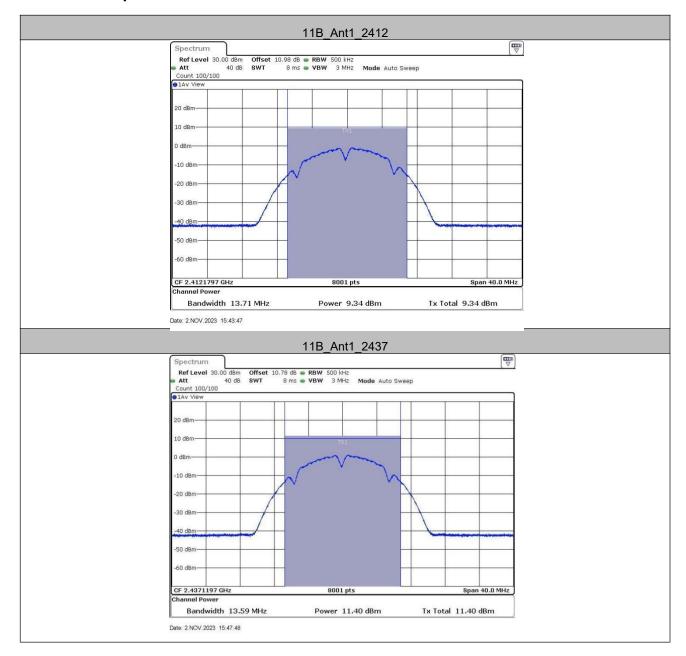
Test Mode	Frequency[MHz	Result [dBm]	Limit [dBm]	Verdict
	2412	9.34	≤30.00	PASS
11B	2437	11.40	≤30.00	PASS
	2462	11.81	≤30.00	PASS
	2412	9.06	≤30.00	PASS
11G	2437	11.34	≤30.00	PASS
	2462	11.76	≤30.00	PASS
	2412	9.51	≤30.00	PASS
11N20SISO	2437	11.96	≤30.00	PASS
	2462	11.60	≤30.00	PASS

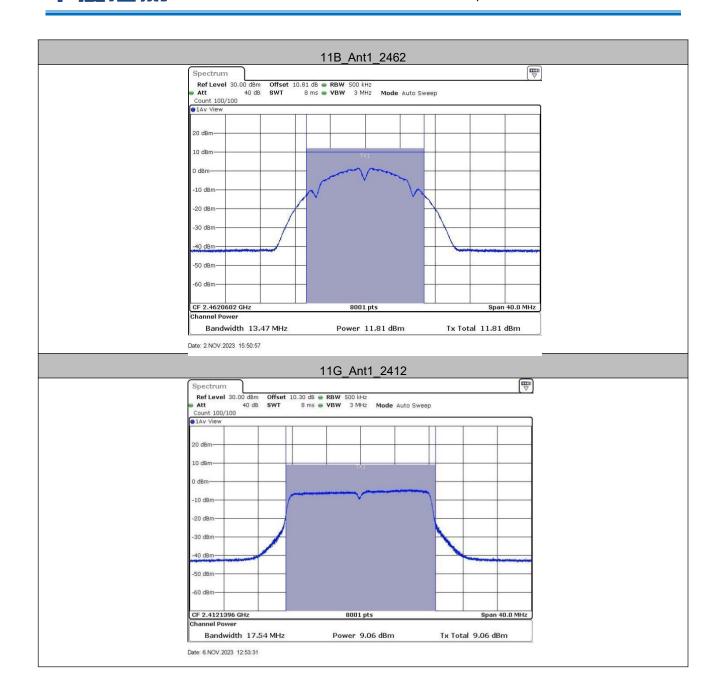
Note:

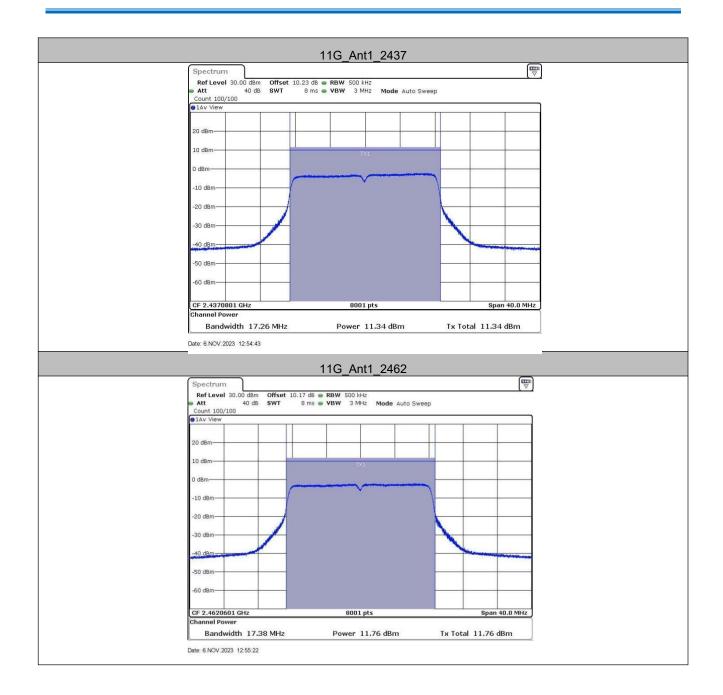
When Duty cycle >98%, D.C.F is not required.



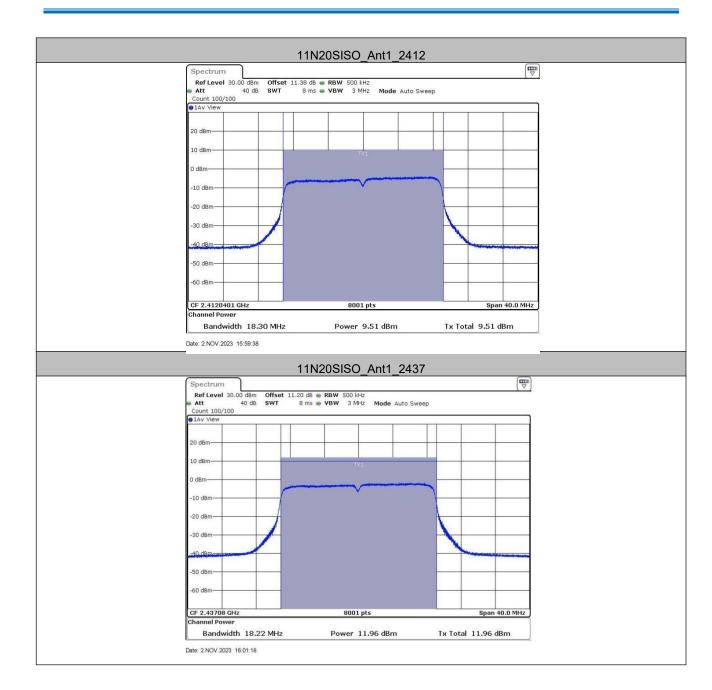
### **Test Graphs**



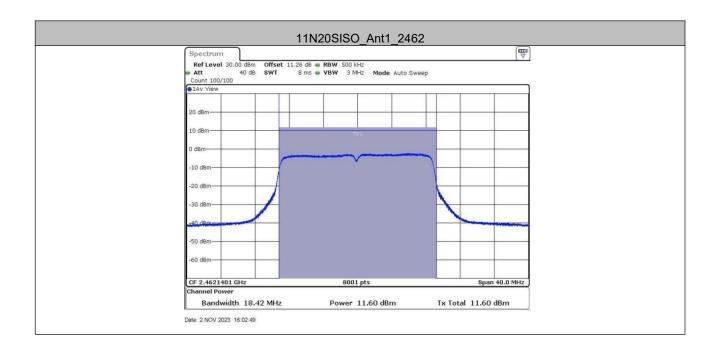








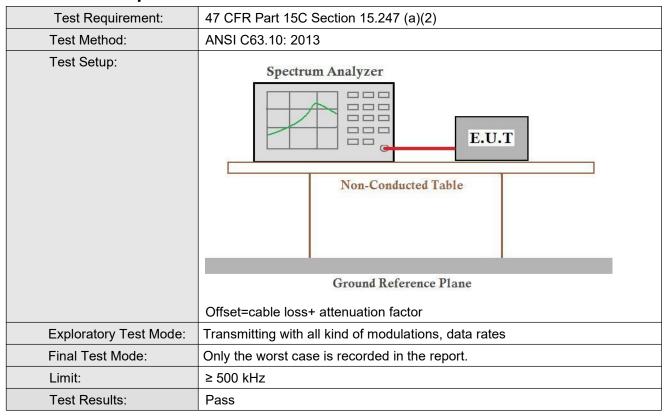








## 5.4 6dB Occupied Bandwidth





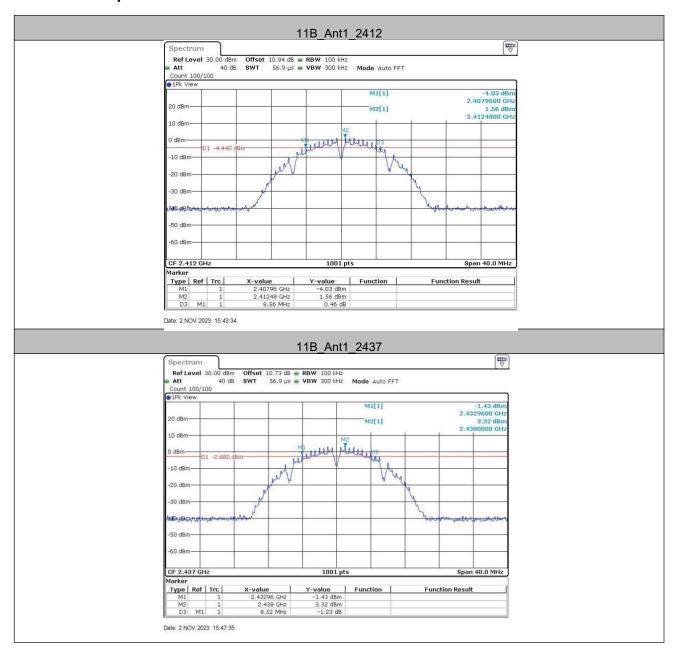
Report No.: CQASZ20231101977E-02

### **Test Result**

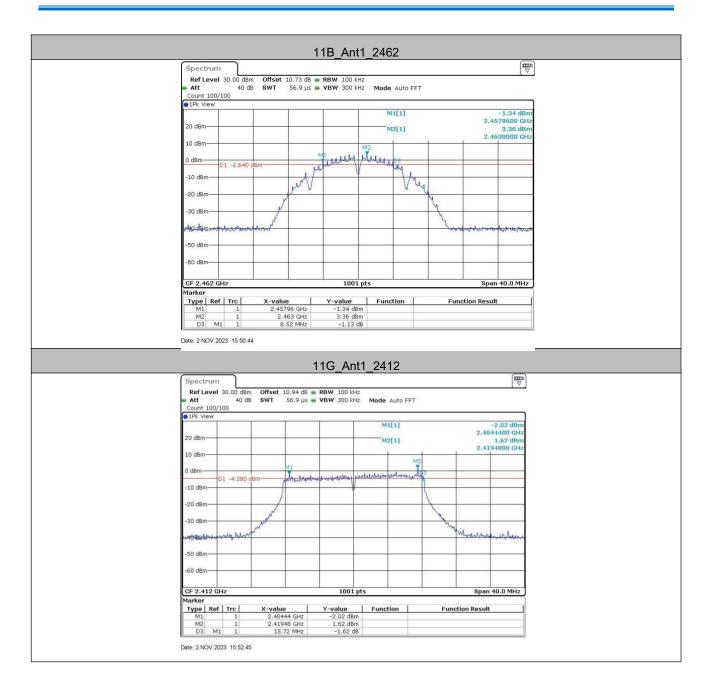
TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
		2412	8.56	0.5	PASS
11B	Ant1	2437	8.52	0.5	PASS
		2462	8.52	0.5	PASS
		2412	15.72	0.5	PASS
11G	Ant1	2437	16.32	0.5	PASS
		2462	16.32	0.5	PASS
		2412	16.64	0.5	PASS
11N20SISO	Ant1	2437	17.16	0.5	PASS
		2462	17.52	0.5	PASS
		2422	8.56	0.5	PASS
11N40SISO	Ant1	2437	8.52	0.5	PASS
		2452	8.52	0.5	PASS



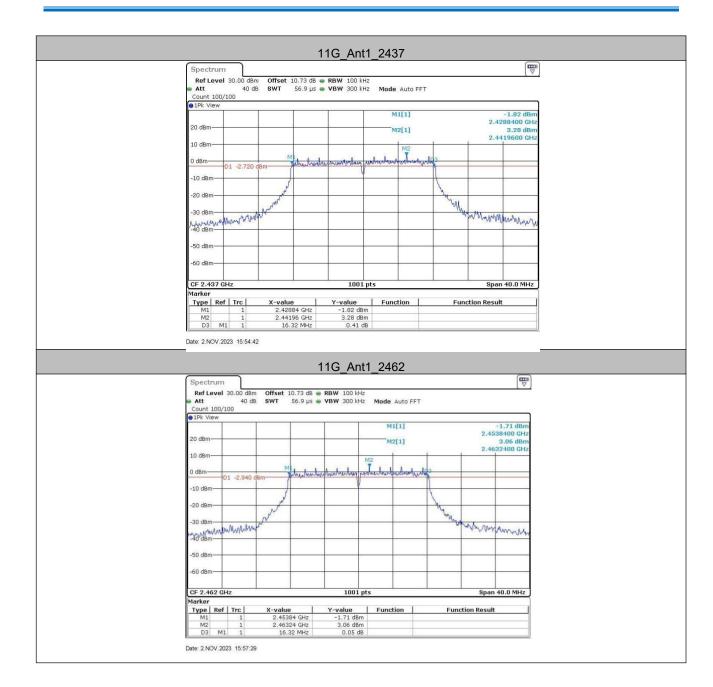
### **Test Graphs**



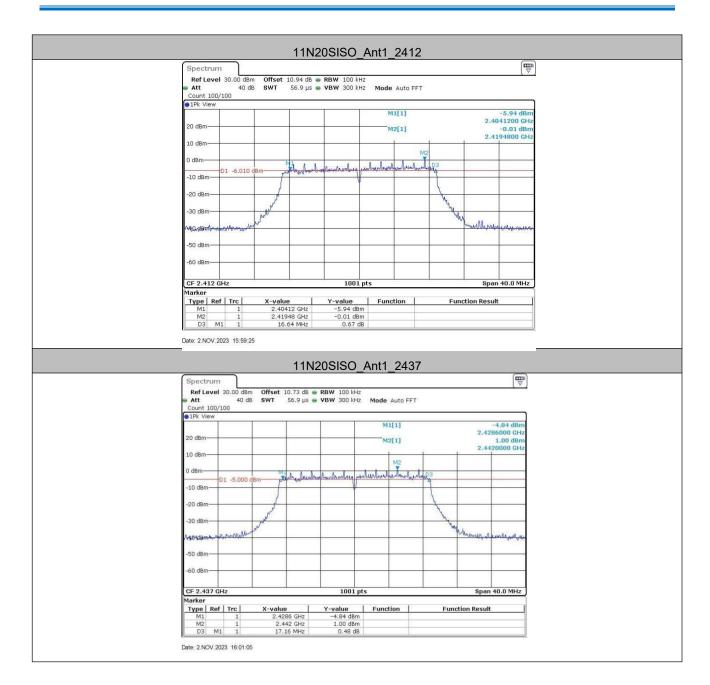




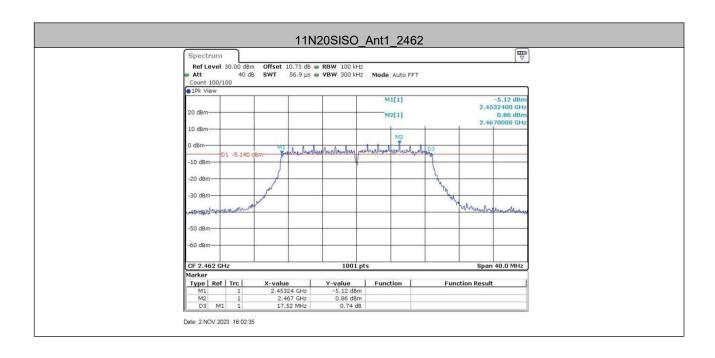








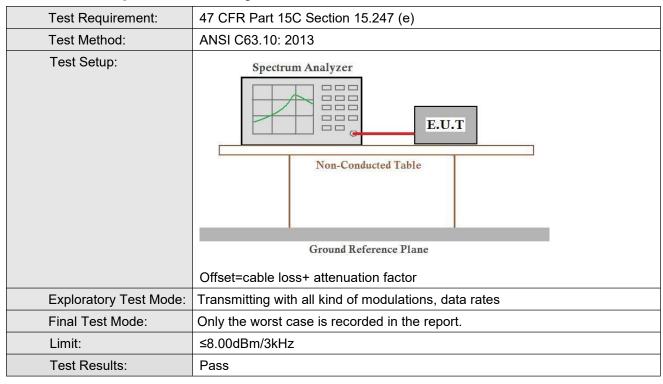






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## 5.5 Power Spectral Density





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### **Test Result**

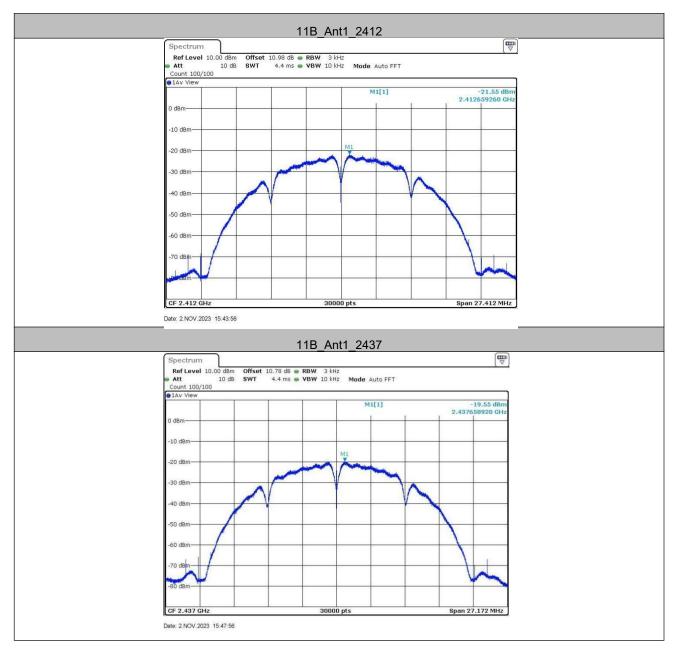
TestMode	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
	2412	-21.55	≤8.00	PASS
11B	2437	-19.55	≤8.00	PASS
	2462	-19.42	≤8.00	PASS
11G	2412	-24.39	≤8.00	PASS
	2437	-22.29	≤8.00	PASS
	2462	-22.36	≤8.00	PASS
	2412	-23.43	≤8.00	PASS
11N20SISO	2437	-21.03	≤8.00	PASS
	2462	-21.61	≤8.00	PASS

Note:

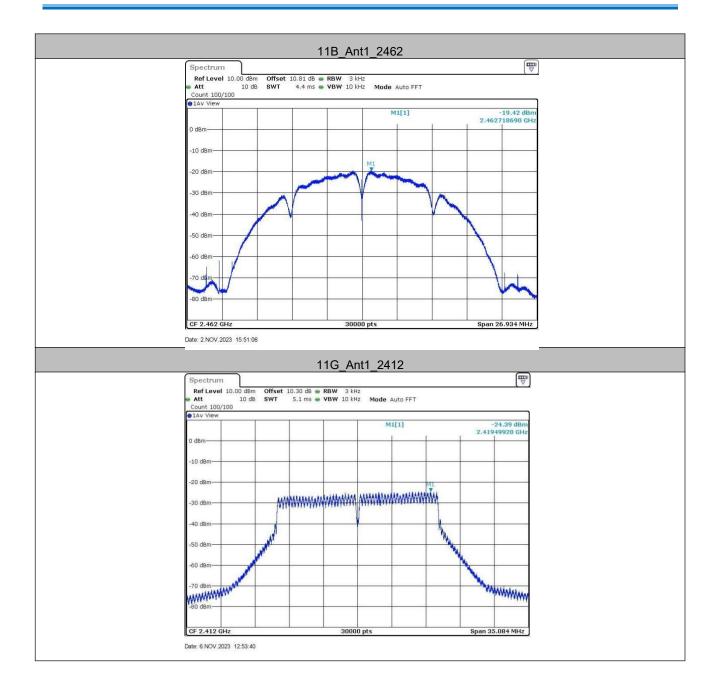
When Duty cycle >98%, D.C.F is not required.



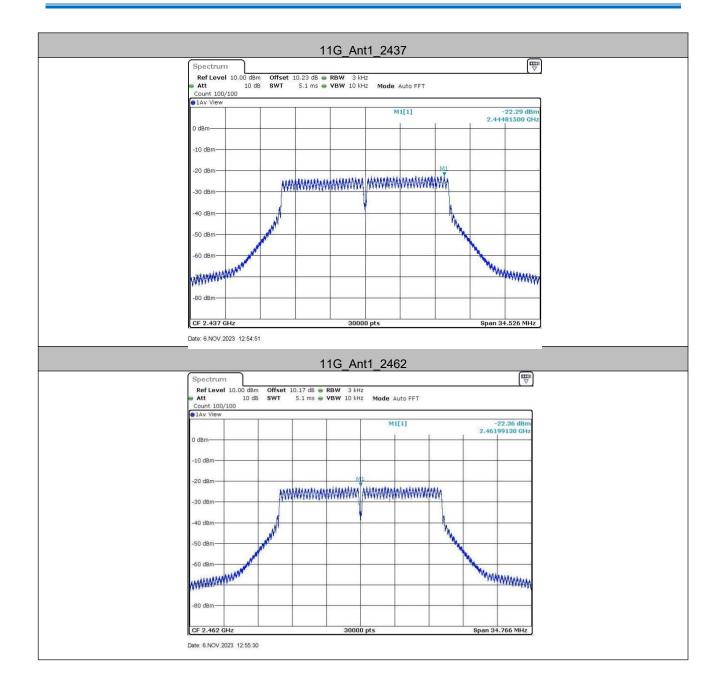
### **Test Graphs**



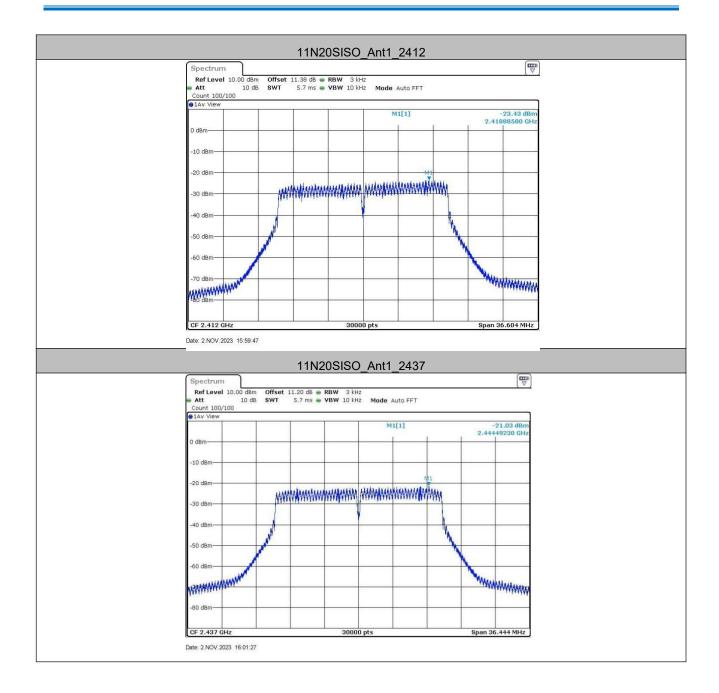




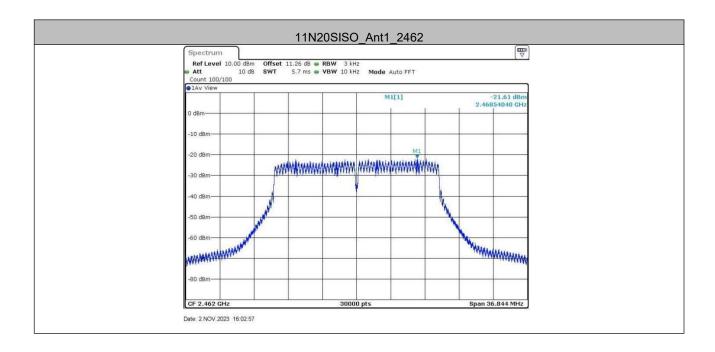








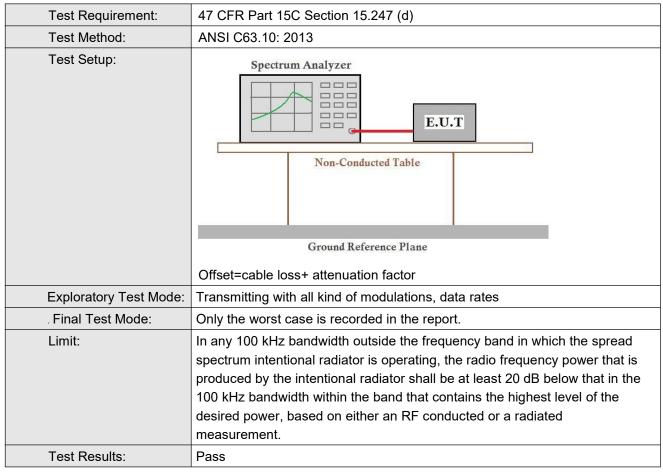






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## 5.6 Band-edge for RF Conducted Emissions





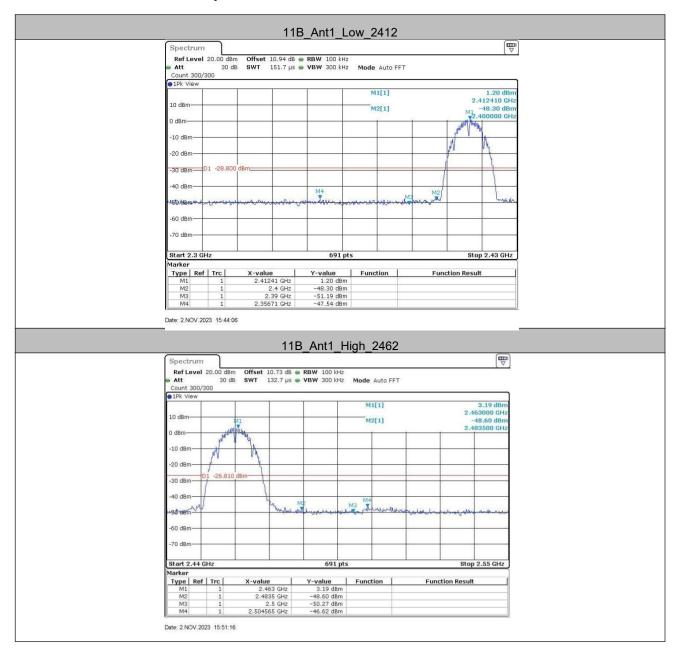
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### **Test Result**

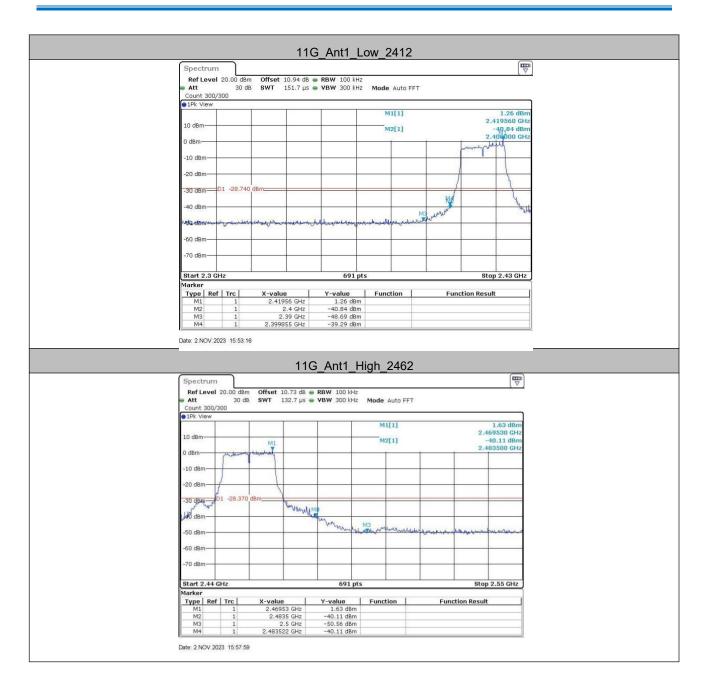
TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Low	2412	1.20	-47.54	≤-28.8	PASS
11B	High	2462	3.19	-46.62	≤-26.81	PASS
	Low	2412	1.26	-39.29	≤-28.74	PASS
11G	High	2462	1.63	-40.11	≤-28.37	PASS
	Low	2412	-3.40	-41.58	≤-33.4	PASS
11N20SISO	High	2462	0.58	-45.62	≤-29.42	PASS



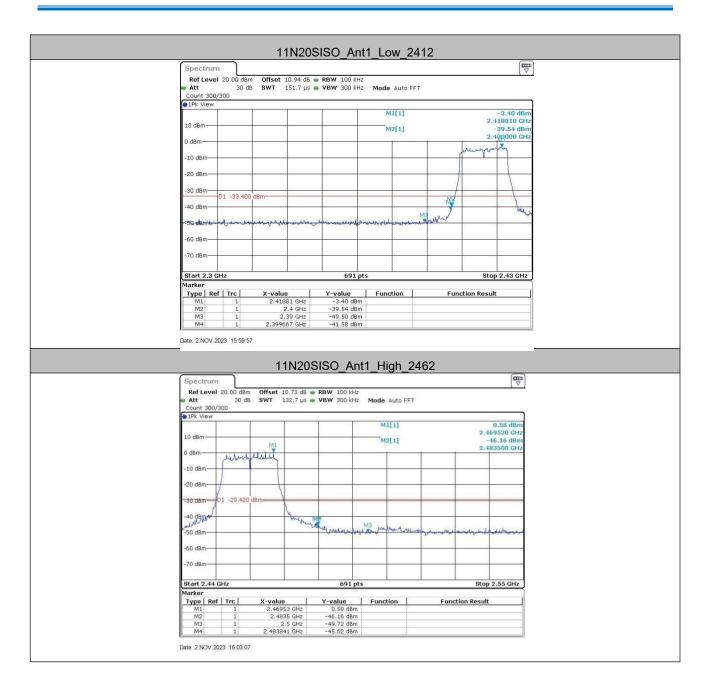
### 5.6.1 Test Graphs













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# **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:	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				



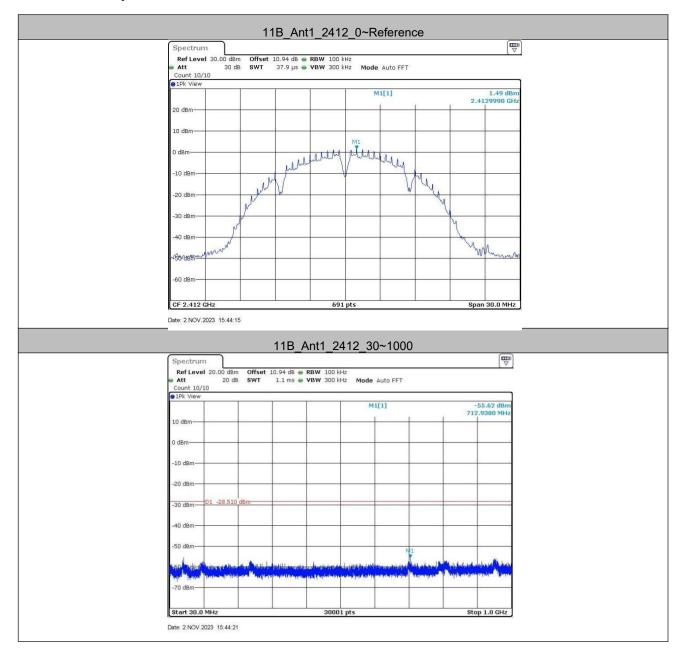
Report No.: CQASZ20231101977E-02

## Test Result

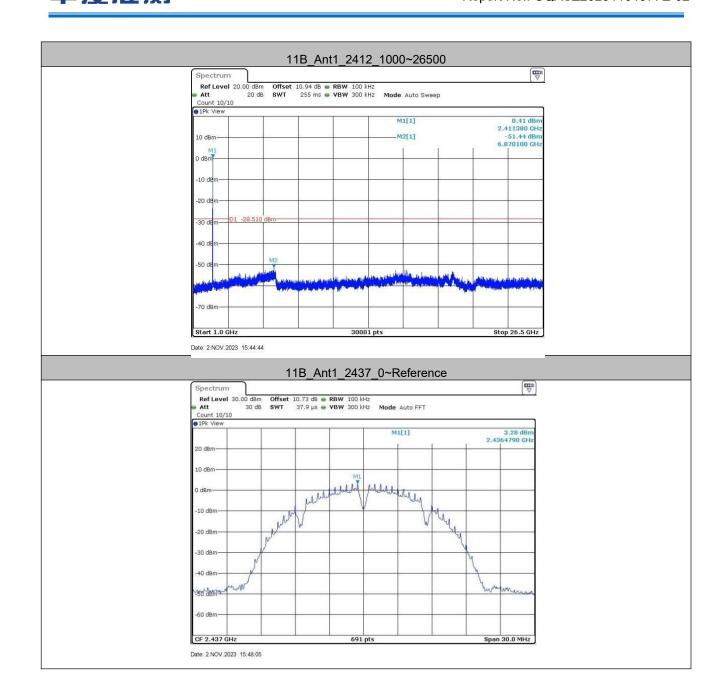
Toothlode	Francisco de (MI) Ind	FreqRange	RefLevel	Result	Limit	\/a wali at
TestMode	Frequency[MHz]	[Mhz]	[dBm]	[dBm]	[dBm]	Verdict
		Reference	1.49	1.49		PASS
	2412	30~1000	1.49	-55.62	≤-28.51	PASS
		1000~26500	1.49	-51.44	≤-28.51	PASS
		Reference	3.28	3.28		PASS
11B	2437	30~1000	3.28	-55.25	≤-26.72	PASS
		1000~26500	3.28	-52.24	≤-26.72	PASS
		Reference	3.40	3.40		PASS
	2462	30~1000	3.40	-55.73	≤-26.6	PASS
		1000~26500	3.40	-51.99	≤-26.6	PASS
		Reference	1.45	1.45		PASS
	2412	30~1000	1.45	-55.62	≤-28.55	PASS
		1000~26500	1.45	-52.42	≤-28.55	PASS
		Reference	3.60	3.60		PASS
11G	2437	30~1000	3.60	-56.19	≤-26.4	PASS
		1000~26500	3.60	-52.44	≤-26.4	PASS
		Reference	2.89	2.89		PASS
	2462	30~1000	2.89	-55.4	≤-27.11	PASS
		1000~26500	2.89	-53.11	≤-27.11	PASS
		Reference	0.02	0.02		PASS
	2412	30~1000	0.02	-55.76	≤-29.98	PASS
		1000~26500	0.02	-52.13	≤-29.98	PASS
		Reference	0.78	0.78		PASS
11N20SISO	2437	30~1000	0.78	-54.94	≤-29.22	PASS
		1000~26500	0.78	-52.2	≤-29.22	PASS
		Reference	0.73	0.73		PASS
	2462	30~1000	0.73	-56.12	≤-29.27	PASS
		1000~26500	0.73	-52.8	≤-29.27	PASS



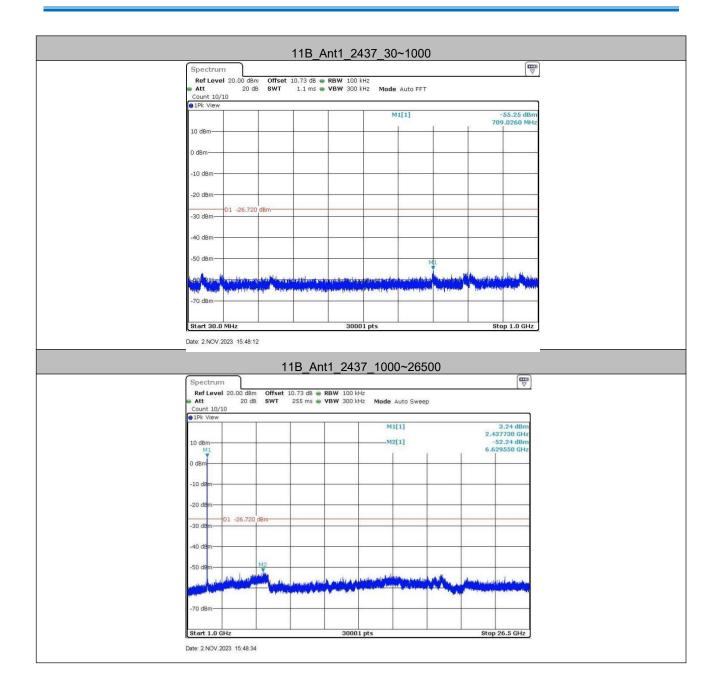
### **Test Graphs**



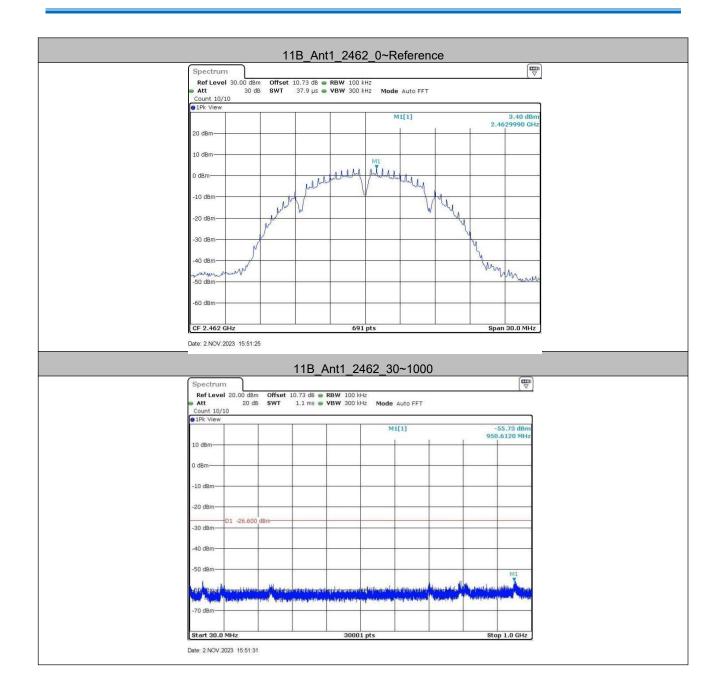




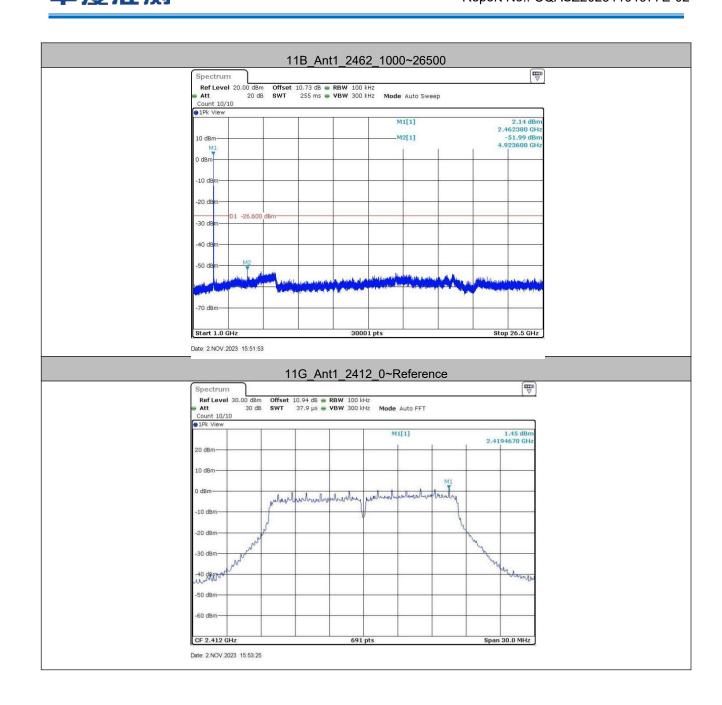




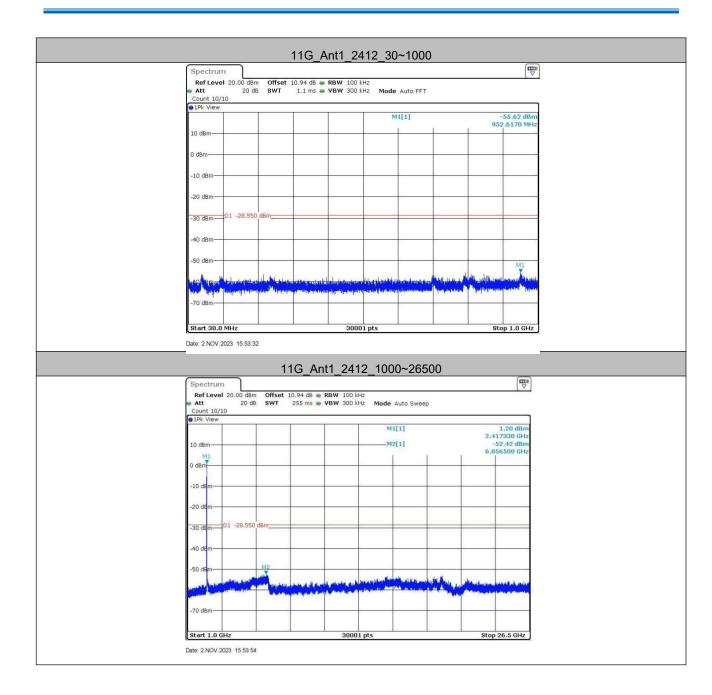




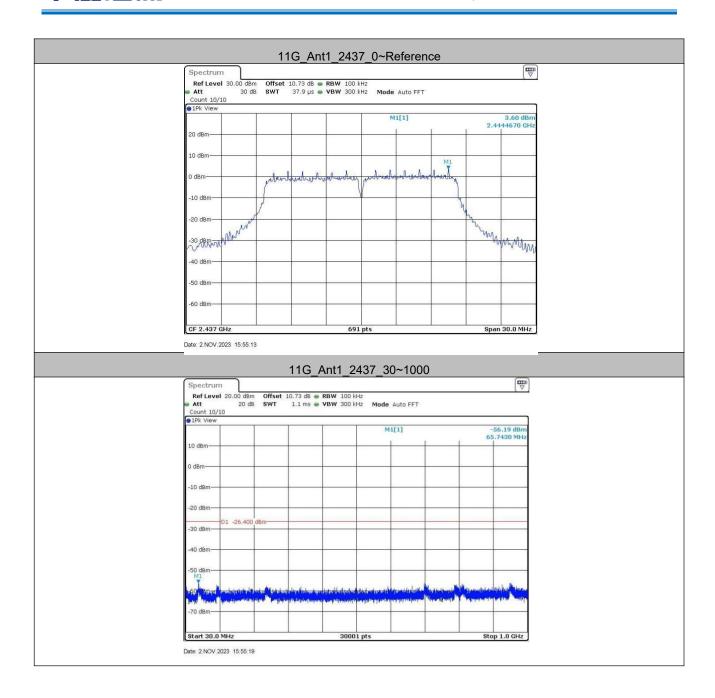




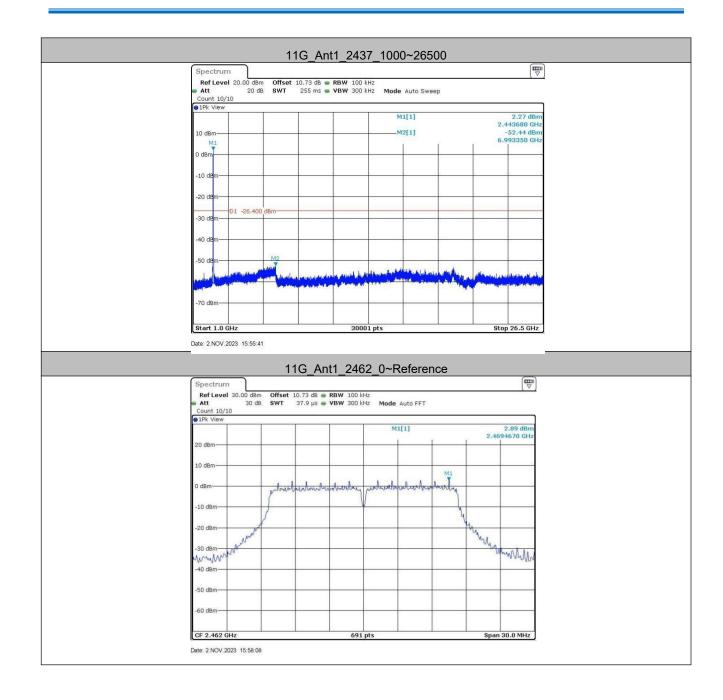




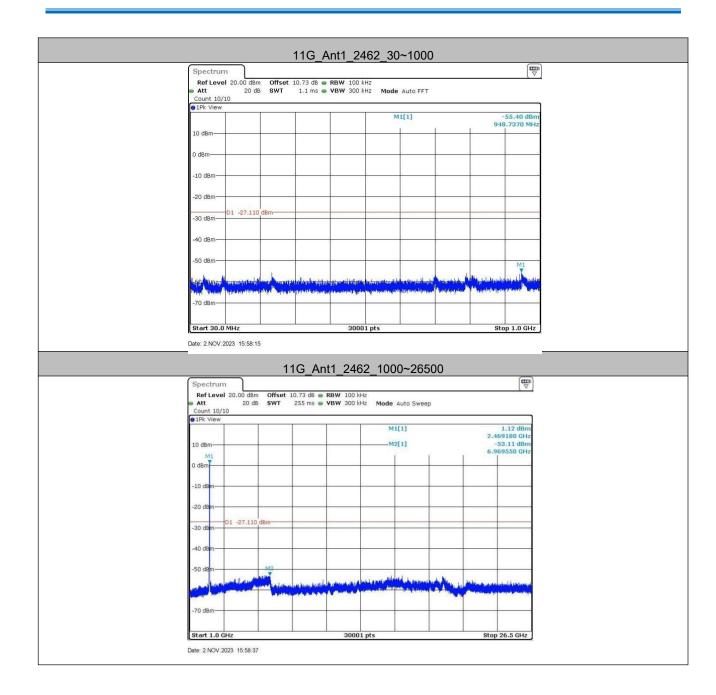




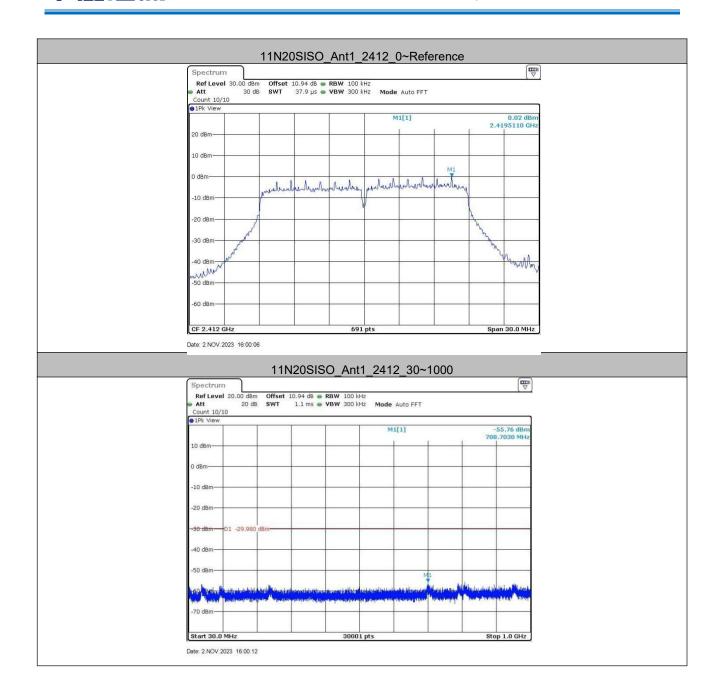




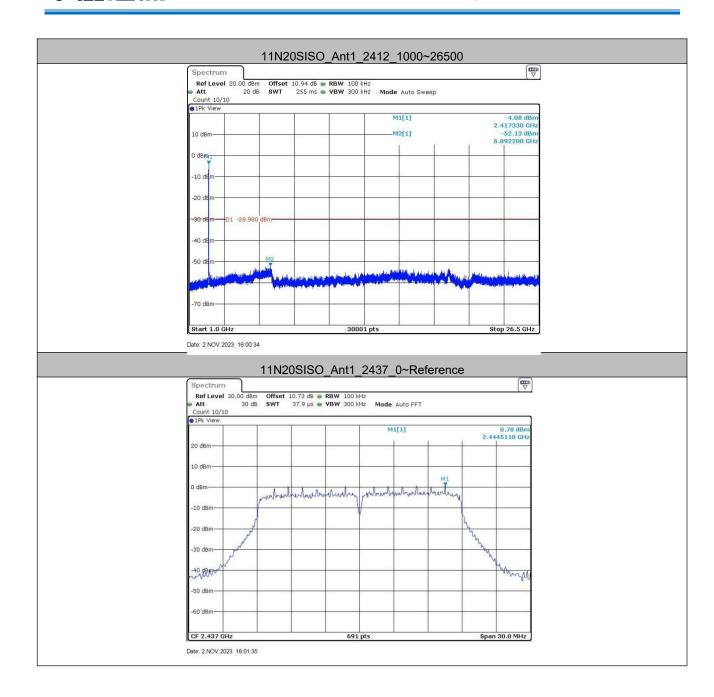




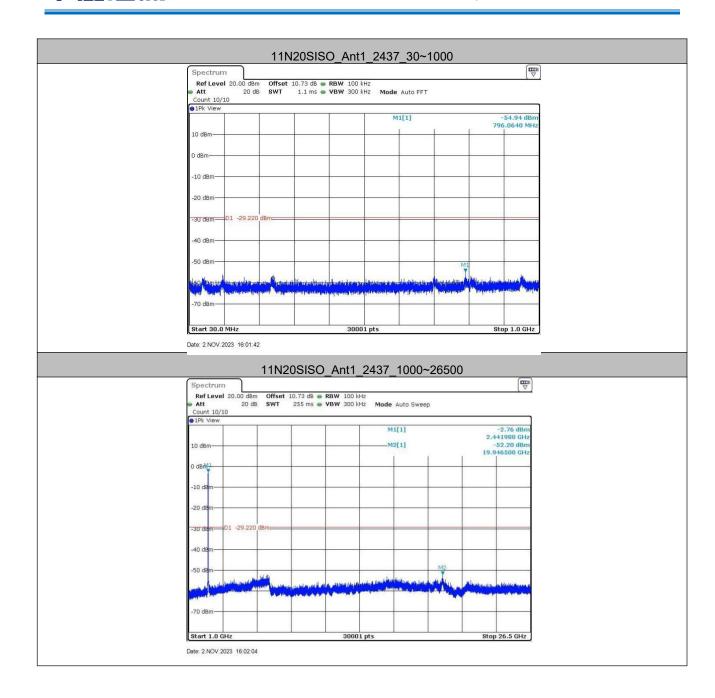




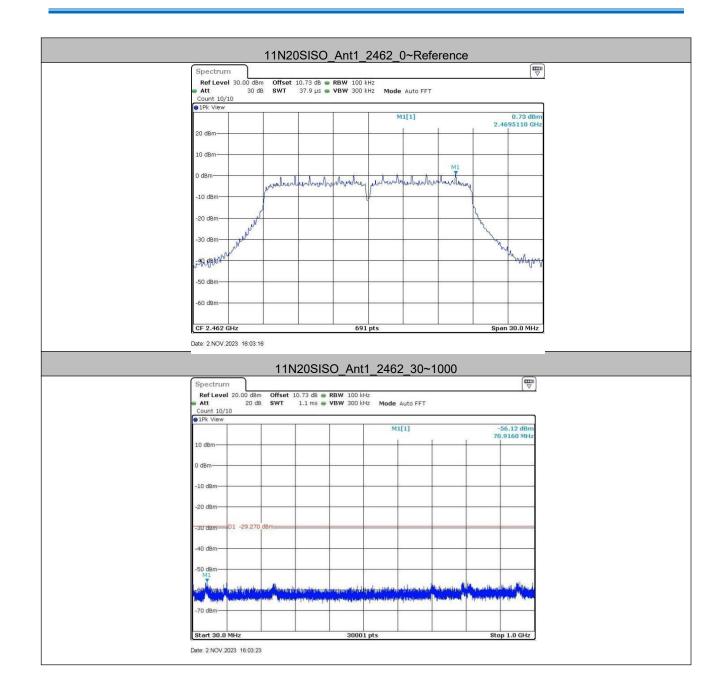






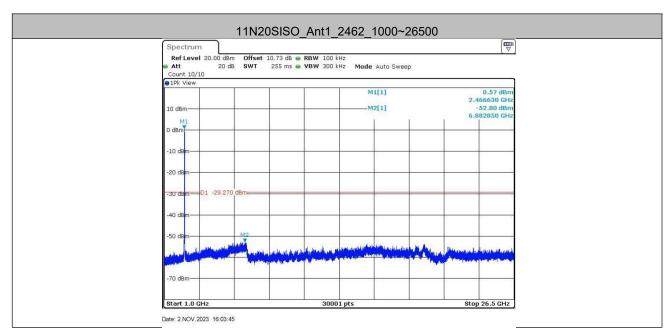








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#### Remark:

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.



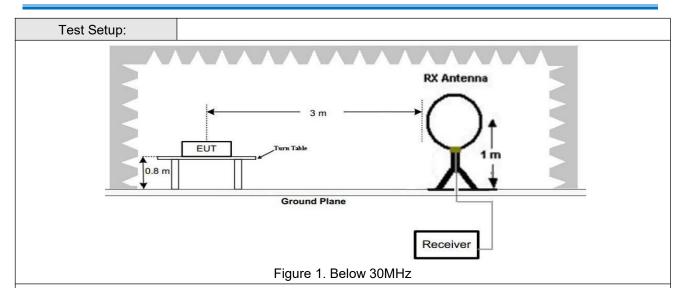
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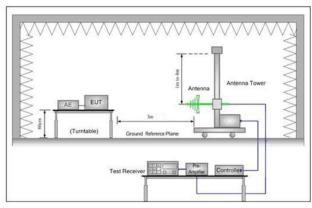
# 5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.20	05					
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance:	3m (Semi-Anechoi	ic Chamber)					
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGHZ	Peak	1MHz	10Hz	Average			
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
	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 pemission level radiated by the device.							



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Horn Antenna Tower

AE EUT

Ground Reference Plane

Test Receiver

Test Receiver

Controller

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.

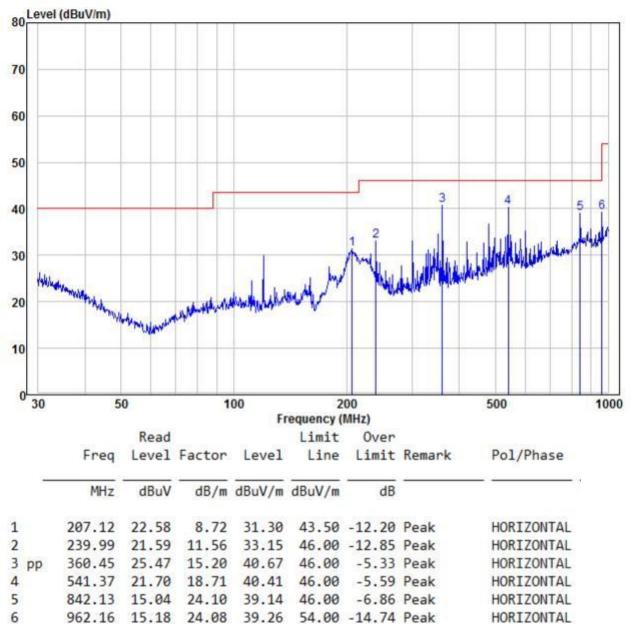


Test Results:	Pass
Final Test Mode:	Only the worst case is recorded in the report.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
	i. Repeat above procedures until all frequencies measured was complete.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case .
	g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
	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.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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.



#### 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:

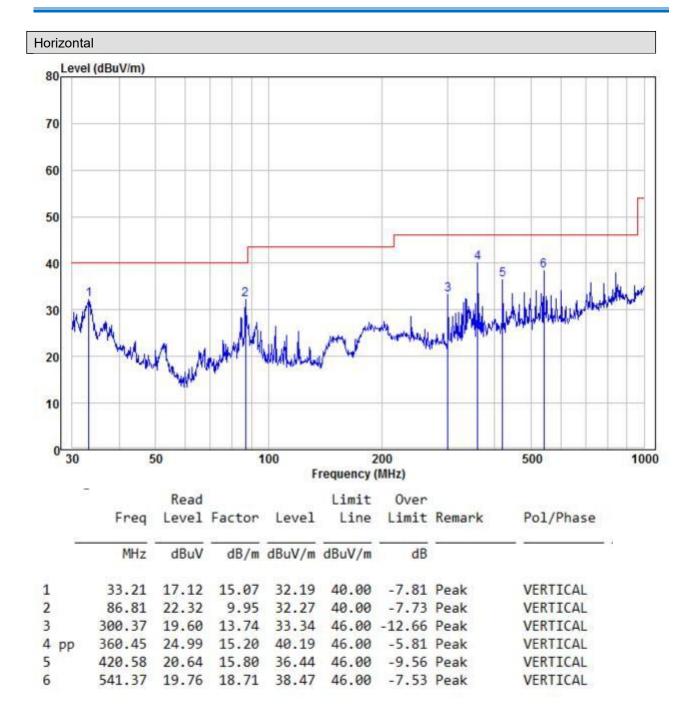
Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.







#### 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 mode:		802.11b(1	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
4824.000	52.49	-3.63	48.86	74	-25.14	peak	Н
4824.000	36.40	-3.63	32.77	54	-21.23	AVG	Н
7236.000	52.09	-3.63	48.46	74	-25.54	peak	Н
7236.000	37.47	-3.63	33.84	54	-20.16	AVG	Н
4824.000	55.93	-3.59	52.34	74	-21.66	peak	V
4824.000	38.61	-3.59	35.02	54	-18.98	AVG	V
7236.000	51.33	-3.59	47.74	74	-26.26	peak	V
7236.000	35.24	-3.59	31.65	54	-22.35	AVG	V

Test mode:		802.11b(11	Mbps)	Test chann	iel:	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	51.80	-3.44	48.36	74	-25.64	peak	Н
4874.000	36.03	-3.44	32.59	54	-21.41	AVG	Н
7311.000	48.57	-3.44	45.13	74	-28.87	peak	Н
7311.000	35.01	-3.44	31.57	54	-22.43	AVG	Н
4874.000	52.47	-3.42	49.05	74	-24.95	peak	V
4874.000	36.86	-3.42	33.44	54	-20.56	AVG	V
7311.000	48.26	-3.42	44.84	74	-29.16	peak	V
7311.000	36.97	-3.42	33.55	54	-20.45	AVG	V



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Test mode:		802.11b(1	b(1Mbps) Test channel:		el:	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	52.43	-4.03	48.40	74	-25.60	peak	Н
4924.000	38.94	-4.03	34.91	54	-19.09	AVG	Н
7386.000	50.14	1.66	51.80	74	-22.20	peak	Н
7386.000	36.55	1.66	38.21	54	-15.79	AVG	Н
4924.000	54.43	-4.03	50.40	74	-23.60	peak	V
4924.000	37.79	-4.03	33.76	54	-20.24	AVG	V
7386.000	49.86	1.66	51.52	74	-22.48	peak	V
7386.000	36.76	1.66	38.42	54	-15.58	AVG	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.



Test mode:		802.11g(6	Mbps)	Test chann	annel: Lowe		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	
4824.000	53.83	-3.63	50.20	74	-23.80	peak	Н	
4824.000	37.01	-3.63	33.38	54	-20.62	AVG	Н	
7236.000	51.09	-3.63	47.46	74	-26.54	peak	Н	
7236.000	38.11	-3.63	34.48	54	-19.52	AVG	Н	
4824.000	54.53	-3.59	50.94	74	-23.06	peak	V	
4824.000	39.10	-3.59	35.51	54	-18.49	AVG	V	
7236.000	50.85	-3.59	47.26	74	-26.74	peak	V	
7236.000	36.44	-3.59	32.85	54	-21.15	AVG	V	

Test mode:		802.11g(6	Mbps)	Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Datastas	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	H/V
4874.000	52.54	-3.44	49.10	74	-24.90	peak	Н
4874.000	36.50	-3.44	33.06	54	-20.94	AVG	Н
7311.000	50.20	-3.44	46.76	74	-27.24	peak	Н
7311.000	36.83	-3.44	33.39	54	-20.61	AVG	Н
4874.000	52.71	-3.42	49.29	74	-24.71	peak	V
4874.000	36.08	-3.42	32.66	54	-21.34	AVG	V
7311.000	49.75	-3.42	46.33	74	-27.67	peak	V
7311.000	36.71	-3.42	33.29	54	-20.71	AVG	V



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Test mode:	est mode:		Mbps)	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	52.79	-4.03	48.76	74	-25.24	peak	Н
4924.000	38.62	-4.03	34.59	54	-19.41	AVG	Н
7386.000	50.07	1.66	51.73	74	-22.27	peak	Н
7386.000	37.13	1.66	38.79	54	-15.21	AVG	Н
4924.000	53.27	-4.03	49.24	74	-24.76	peak	V
4924.000	37.51	-4.03	33.48	54	-20.52	AVG	V
7386.000	49.95	1.66	51.61	74	-22.39	peak	V
7386.000	36.45	1.66	38.11	54	-15.89	AVG	V

#### Remark:

- 1) The 6Mbps of rate of 802.11g 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.



Test mode:		802.11n20	(mcs0)	Test chann	el:	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	52.62	-3.63	48.99	74	-25.01	peak	Н
4824.000	36.64	-3.63	33.01	54	-20.99	AVG	н
7236.000	50.57	-3.63	46.94	74	-27.06	peak	Н
7236.000	37.57	-3.63	33.94	54	-20.06	AVG	Н
4824.000	54.88	-3.59	51.29	74	-22.71	peak	V
4824.000	38.76	-3.59	35.17	54	-18.83	AVG	V
7236.000	50.65	-3.59	47.06	74	-26.94	peak	V
7236.000	36.21	-3.59	32.62	54	-21.38	AVG	V

Test mode:		802.11n20(mcs0)		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	52.49	-3.44	49.05	74	-24.95	peak	Н
4874.000	36.36	-3.44	32.92	54	-21.08	AVG	Н
7311.000	49.70	-3.44	46.26	74	-27.74	peak	Н
7311.000	35.73	-3.44	32.29	54	-21.71	AVG	Н
4874.000	53.35	-3.42	49.93	74	-24.07	peak	V
4874.000	36.48	-3.42	33.06	54	-20.94	AVG	V
7311.000	48.59	-3.42	45.17	74	-28.83	peak	V
7311.000	35.71	-3.42	32.29	54	-21.71	AVG	V



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Test mode:		802.11n20(mcs0)		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	52.29	-4.03	48.26	74	-25.74	peak	Н
4924.000	38.15	-4.03	34.12	54	-19.88	AVG	Н
7386.000	50.46	1.66	52.12	74	-21.88	peak	Н
7386.000	37.03	1.66	38.69	54	-15.31	AVG	Н
4924.000	54.40	-4.03	50.37	74	-23.63	peak	V
4924.000	37.85	-4.03	33.82	54	-20.18	AVG	V
7386.000	49.31	1.66	50.97	74	-23.03	peak	V
7386.000	36.36	1.66	38.02	54	-15.98	AVG	V

#### Remark:

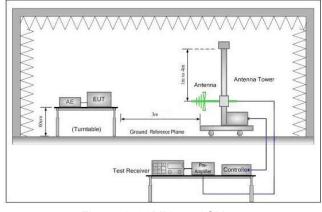
- 1) The MCS0 of rate of 802.11n20 is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 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 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1GHz	54.0	Average Value					
	ADOVE IGHZ	74.0	Peak Value					
Test Setup:								



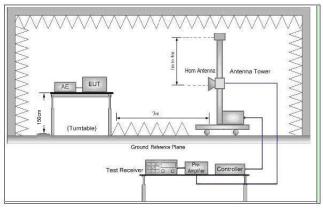


Figure 1. 30MHz to 1GHz

Figure 2. 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 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 middle channel, the Highest channel.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case.
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).
	Only the worst case is recorded in the report.
Test Results:	Pass



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### Test data:

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over		Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	H/V
2390.000	58.60	-9.2	49.40	74	-24.60	peak	Н
2390.000	44.41	-9.2	35.21	54	-18.79	AVG	Н
2400.000	59.75	-9.39	50.36	74	-23.64	peak	Н
2400.000	46.27	-9.39	36.88	54	-17.12	AVG	Н
2390.000	58.66	-9.2	49.46	74	-24.54	peak	V
2390.000	44.29	-9.2	35.09	54	-18.91	AVG	V
2400.000	59.26	-9.39	49.87	74	-24.13	peak	V
2400.000	46.91	-9.39	37.52	54	-16.48	AVG	V

Worse case mode:		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
2483.500	57.96	-9.29	48.67	74	-25.33	peak	Н
2483.500	44.28	-9.29	34.99	54	-19.01	AVG	Н
2483.500	57.51	-9.29	48.22	74	-25.78	peak	V
2483.500	46.34	-9.29	37.05	54	-16.95	AVG	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	59.09	-9.2	49.89	74	-24.11	peak	Н
2390.000	44.05	-9.2	34.85	54	-19.15	AVG	Н
2400.000	59.66	-9.39	50.27	74	-23.73	peak	Н
2400.000	46.86	-9.39	37.47	54	-16.53	AVG	Н
2390.000	58.55	-9.2	49.35	74	-24.65	peak	V
2390.000	44.17	-9.2	34.97	54	-19.03	AVG	V
2400.000	59.81	-9.39	50.42	74	-23.58	peak	V
2400.000	46.41	-9.39	37.02	54	-16.98	AVG	V

Worse case mode:		802.11g(6Mbps)		Test channel:		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	57.98	-9.29	48.69	74	-25.31	peak	Н
2483.500	43.55	-9.29	34.26	54	-19.74	AVG	Н
2483.500	58.40	-9.29	49.11	74	-24.89	peak	V
2483.500	46.42	-9.29	37.13	54	-16.87	AVG	V



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Worse case	mode:	802.11n(HT20)(6.5Mbps)		Test channel:		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	58.59	-9.2	49.39	74	-24.61	peak	Н
2390.000	44.42	-9.2	35.22	54	-18.78	AVG	Н
2400.000	59.32	-9.39	49.93	74	-24.07	peak	Н
2400.000	46.05	-9.39	36.66	54	-17.34	AVG	Н
2390.000	58.39	-9.2	49.19	74	-24.81	peak	V
2390.000	44.38	-9.2	35.18	54	-18.82	AVG	V
2400.000	60.14	-9.39	50.75	74	-23.25	peak	V
2400.000	46.78	-9.39	37.39	54	-16.61	AVG	V

Worse case mode:		802.11n(HT20)(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
2483.500	57.54	-9.29	48.25	74	-25.75	peak	Н
2483.500	44.36	-9.29	35.07	54	-18.93	AVG	Н
2483.500	58.32	-9.29	49.03	74	-24.97	peak	V
2483.500	46.45	-9.29	37.16	54	-16.84	AVG	V

#### Note:

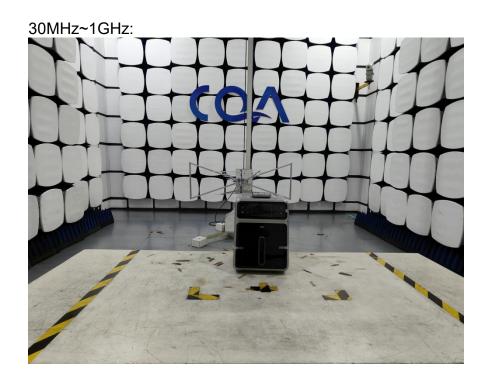
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

# 6 Photographs - EUT Test Setup

# 6.1 Radiated Spurious Emission







### **6.2** Conducted Emission







# 7 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20231101977E-01.

\*\*\* END OF REPORT \*\*\*