

Report No.: XEWM2309000462RG04

Rev.: 01

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TEST REPORT

Application No.: XEWM2309000462RG

Applicant: JL MARINE SYSTEMS, INC.

Address of Applicant: 9010 Palm River Road, Tampa, FL 33619, USA

Manufacturer: JL MARINE SYSTEMS, INC.

Address of Manufacturer: 9010 Palm River Road, Tampa, FL 33619, USA

EUT Description: Marine Tablet

Model No.: Vision 7

Trade Mark: Power-Pole

FCC ID: A7FVISION7

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/09/14

Date of Test: 2023/09/19 to 2023/10/08

Date of Issue: 2024/06/12

Test Result : PASS *

Authorized Signature:

Mus chen

Linus Chen Wireless Laboratory Manager



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



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2024/06/12		Original	

Prepared By	(Leah Chen) / Test Engineer
Checked By	(Andy Yao) /Reviewer





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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle		ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	JL MARINE SYSTEMS, INC.
Address of Applicant:	9010 Palm River Road, Tampa, FL 33619, USA
Manufacturer:	JL MARINE SYSTEMS, INC.
Address of Manufacturer:	9010 Palm River Road, Tampa, FL 33619, USA

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Qiang Zhang, Jacky Xue

3.3 Test Facility

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

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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3.4 General Description of EUT

EUT Description:	Marine Tablet			
Model No.:	Vision 7			
Trade Mark:	Power-Pole			
Hardware Version:	V3.0			
Software Version:	Vision7_2024	10522		
IMCI.	RF Conducte	d	356191360	0001108
IMEI:	RSE & AC po	ower line	356191360	001165
Operation Francisco	802.11b/g/n(l	HT20):		2412MHz to 2462MHz
Operation Frequency:	802.11n(HT4	0):		2422MHz to 2452MHz
Madulatian Tomas	802.11b:	DSSS (DBF	SK, DQPSK	, CCK)
Modulation Type:	802.11g/n:	OFDM (BPS	SK, QPSK, 1	6QAM, 64QAM)
Number of Channels:	802.11b/g/n(l 802.11n(HT4	,		
Channel Spacing:	5MHz			
	⊠ siso	802.11b/g/n		
	□ мімо	CDD: 802.11b/g/n: Tx & Rx		
Smart System:		STBC: 802.	STBC: 802.11n: Tx & Rx	
		TXBF: 802.11n: Tx & Rx		
	Diversity	802.11b/g : Tx & Rx		
Antenna Type:	☐ External, [⊠ Integrated		
	2.97dBi(Ant1)		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.2dB			
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				



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	Operation Frequency of each 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		
		Operation Fr	equency of ea	ch channel (802.11n HT40)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Remark:

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:

Channel	Frequency for 802.11 b/g/n (HT20)	Frequency for 802.11n (HT40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz



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3.5 Test Environment and Mode

Environment Parameter	96~101 kPa Selected Values During Tests			
Relative Humidity	40-60 % RH Ambient			
Value	Temperature($^{\circ}$) Voltage(V)			
NTNV	22~25 12			
Domarks				

Remark:

NV: Normal Voltage
NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

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

15.203 requirement:

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

15.247(b) (4) requirement:

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

The antenna is Integrated Antenna and no consideration of replacement. The best case gain of the antenna is 2.97dBi(Ant1). *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30kHz			
Limit:	Fraguenov range (MUz)	Limit (d	BuV)	
	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 log	arithm of the frequency.		
Test Procedure:				



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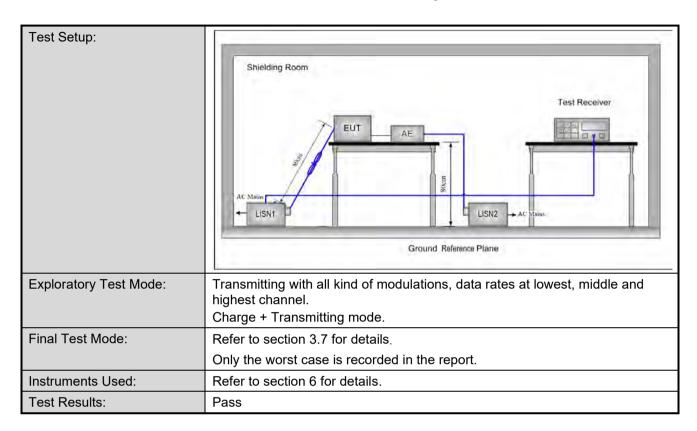
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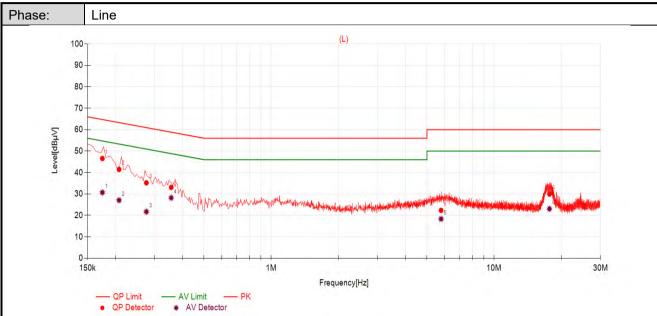
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1748	9.85	36.72	46.57	64.73	18.16	20.85	30.70	54.73	24.03	PASS
2	0.2077	9.85	31.63	41.48	63.30	21.82	17.22	27.07	53.30	26.23	PASS
3	0.2754	9.89	25.31	35.20	60.95	25.75	11.84	21.73	50.95	29.22	PASS
4	0.3560	9.87	23.17	33.04	58.82	25.78	18.34	28.21	48.82	20.61	PASS
5	5.7858	9.91	12.45	22.36	60.00	37.64	8.46	18.37	50.00	31.63	PASS
6	17.7341	10.25	19.70	29.95	60.00	30.05	12.81	23.06	50.00	26.94	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]



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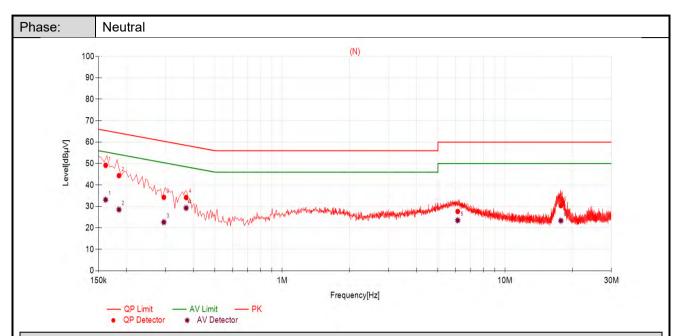
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Final	Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1614	9.79	39.39	49.18	65.39	16.21	23.34	33.13	55.39	22.26	PASS
2	0.1852	9.83	34.54	44.37	64.25	19.88	18.70	28.53	54.25	25.72	PASS
3	0.2944	9.78	24.48	34.26	60.40	26.14	12.89	22.67	50.40	27.73	PASS
4	0.3708	9.80	24.36	34.16	58.48	24.32	19.47	29.27	48.48	19.21	PASS
5	6.1340	10.01	17.64	27.65	60.00	32.35	13.51	23.52	50.00	26.48	PASS
6	17.8115	10.30	20.07	30.37	60.00	29.63	13.06	23.36	50.00	26.64	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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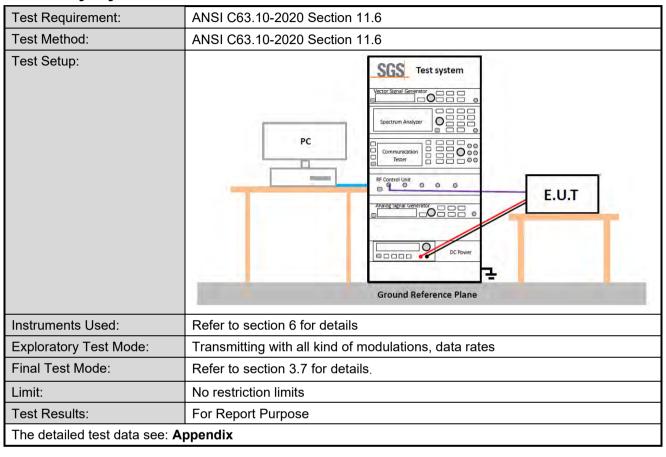


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4.3 Duty Cycle





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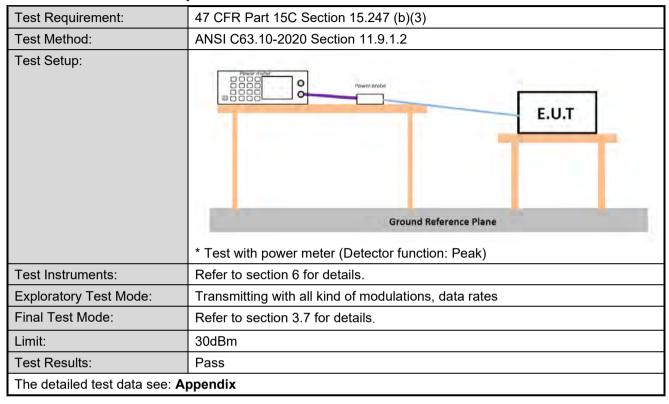


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4.4 Conducted Output Power





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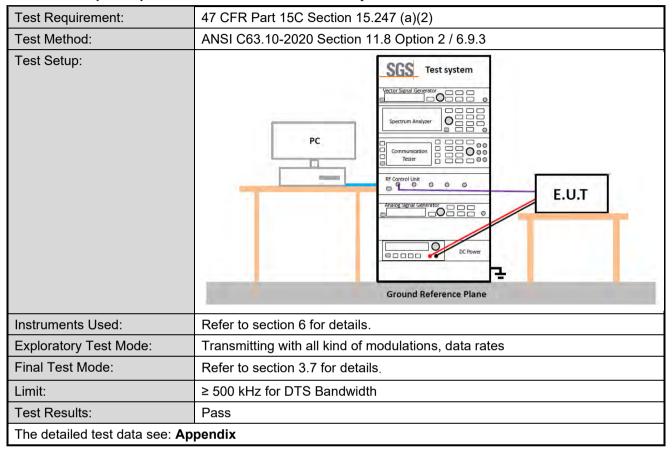


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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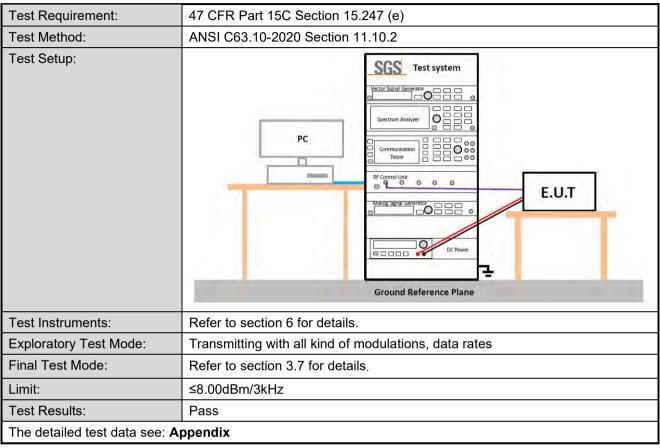


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4.6 Power Spectral Density





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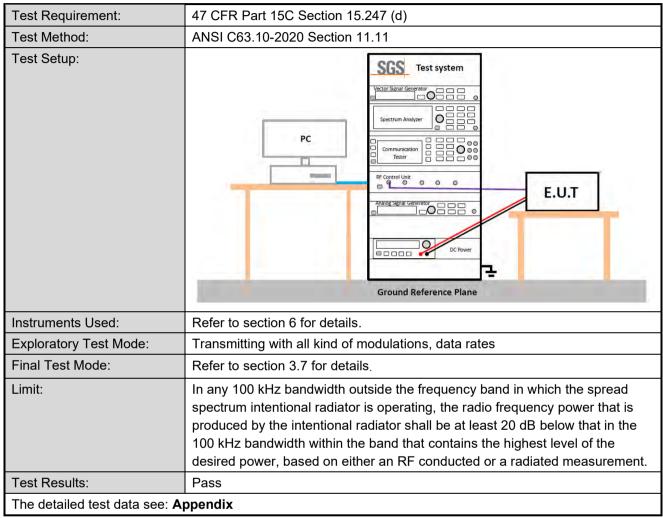


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4.7 Band-edge for RF Conducted Emissions





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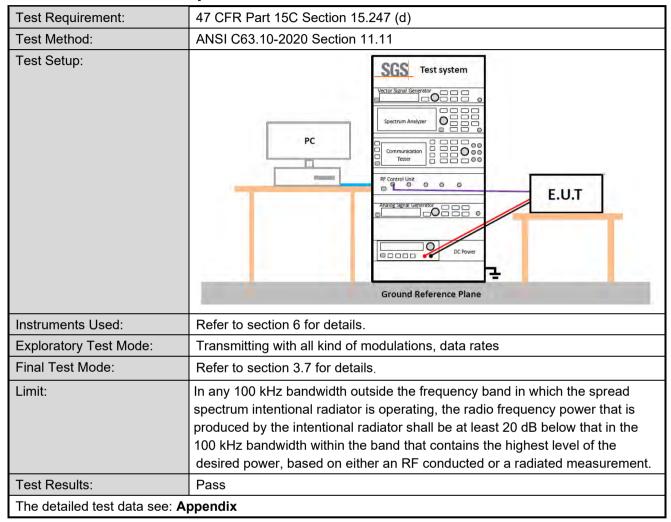


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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10-2020 Secti	on 11.12						
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)					
Test Frequency:	9kHz ~ 25GHz							
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	120kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGHZ	Peak	1MHz	3MHz	Peak			
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			
	Remark: 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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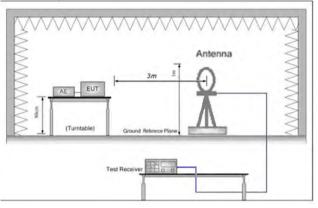


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Test Setup:



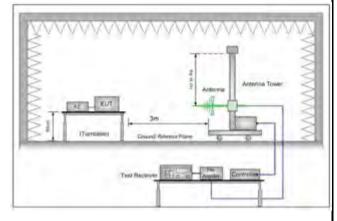


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

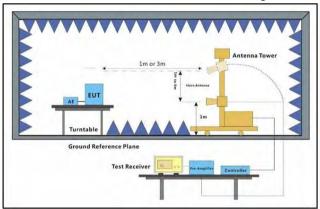


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, 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 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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



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	 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 Z axis positioning which it is worse case.
	 i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by
Test Configuration:	20*LOG(3/1) = 9.54 dB. Measurements below 30MHz
	 RBW = 10 kHz VBW = 30 kHz Detector = Peak & Average & Quasi-peak Trace mode = max hold Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.



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Instruments Used:	Refer to section 6 for details.			
Test Results: Pass				
The detailed test data see: Appendix				



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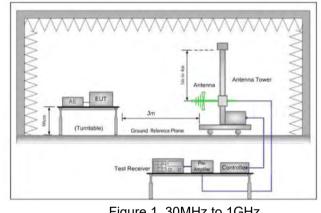
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10-2020 Section	ANSI C63.10-2020 Section 11.12						
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

Test Setup:



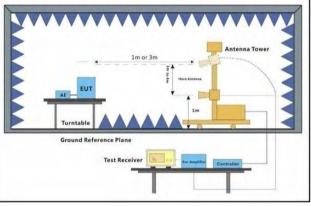


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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Test Procedure:	 a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, 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. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. 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. e. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the Z axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
. soc osinigaration	• RBW = 120 kHz • VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	VBW = 10 Hz, when duty cycle is no less than 98 percent.
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.



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Final Test Mode:	Refer to section 3.7 for details.			
Instruments Used:	Refer to section 6 for details.			
Test Results: Pass				
The detailed test data see: Appendix				



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Radio Frequency	± 7.25 x 10 ⁻⁸ GHz		
2	Duty cycle	± 0.37%		
3	Occupied Bandwidth	± 0.2%		
4	RF conducted power	± 0.21dB		
5	RF power density	± 2.84dB		
6	Conducted Spurious emissions	± 0.75dB		
7	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.6dB (9kHz to 30MHz)		
		± 4.9dB (30MHz to 1GHz)		
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

<u> </u>	ionic Liot							
RF Test System								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15			
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15			
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR			
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR			
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/08/30	2024/08/29			
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15			
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2023/09/04	2024/09/03			

	CE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29			
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR			
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29			



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RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08		
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15		
Spectrum Analyzer	ROHDE& SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14		
Test receiver	ROHDE& SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29		
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27		
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27		
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22		
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR		
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR		
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR		
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR		
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR		
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25		



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	7.600	2408.920	2416.520	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11g	Ant1	2412	15.640	2404.480	2420.120	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.400	2454.520	2469.920	0.5	PASS
11n20SISO	Ant1	2412	15.920	2404.480	2420.400	0.5	PASS
		2437	15.040	2429.480	2444.520	0.5	PASS
		2462	13.760	2455.760	2469.520	0.5	PASS
11n40SISO	Ant1	2422	27.520	2410.720	2438.240	0.5	PASS
		2437	34.960	2419.560	2454.520	0.5	PASS
		2452	33.920	2435.680	2469.600	0.5	PASS



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Test Graphs





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99% Occupied bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant1	2412	12.789	2405.9307	2418.7197	
11b		2437	12.933	2430.5288	2443.4618	
		2462	12.955	2455.6515	2468.6065	
	Ant1	2412	16.832	2403.8541	2420.6861	
11g		2437	16.883	5.883 2428.5658 24		For
_		2462	16.959	2453.6795	2470.6385	For
11n20SISO	Ant1	2412	17.782	2403.3143	2421.0963	Report
		2437	17.840	2428.1100	2445.9500	Purpose
		2462	17.910	2453.1640	2471.0740	
11n40SISO	Ant1	2422	35.687	2404.4668	2440.1538	1
		2437	35.971	2419.0529	2455.0239	1
		2452	36.590	2433.8400	2470.4300	1



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Test Graphs





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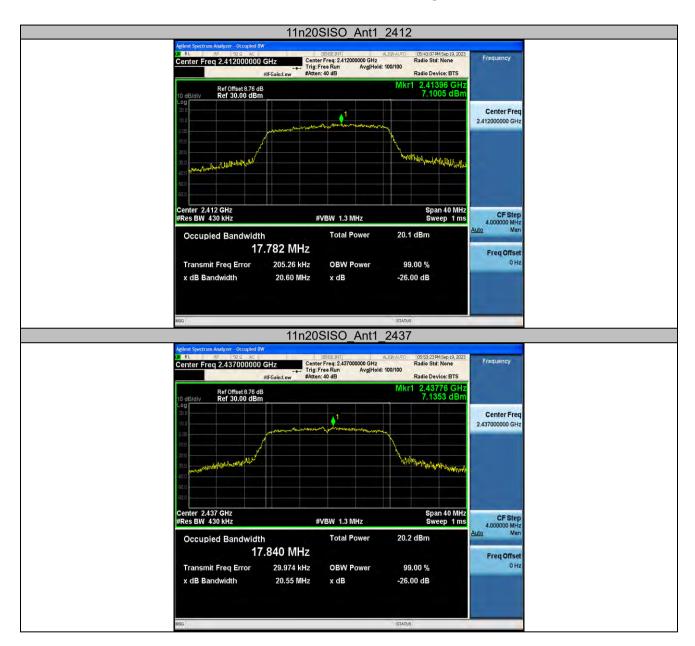
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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
	Ant1	2412	18.64	≤30.00	PASS
11b		2437	18.62	≤30.00	PASS
		2462	18.71	≤30.00	PASS
	Ant1	2412	25.01	≤30.00	PASS
11g		2437	24.51	≤30.00	PASS
		2462	24.52	≤30.00	PASS
	Ant1	2412	25.11	≤30.00	PASS
11n20SISO		2437	25.18	≤30.00	PASS
		2462	25.13	≤30.00	PASS
	Ant1	2422	25.17	≤30.00	PASS
11n40SISO		2437	25.16	≤30.00	PASS
		2452	24.91	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
	Ant1	2412	-7.45	≤8.00	PASS
11b		2437	-7.69	≤8.00	PASS
		2462	-7.61	≤8.00	PASS
	Ant1	2412	-9.75	≤8.00	PASS
11g		2437	-10.49	≤8.00	PASS
		2462	-10.61	≤8.00	PASS
	Ant1	2412	-11.46	≤8.00	PASS
11n20SISO		2437	-11.38	≤8.00	PASS
		2462	-10.95	≤8.00	PASS
11n40SISO	Ant1	2422	-14.60	≤8.00	PASS
		2437	-13.35	≤8.00	PASS
		2452	-15.48	≤8.00	PASS



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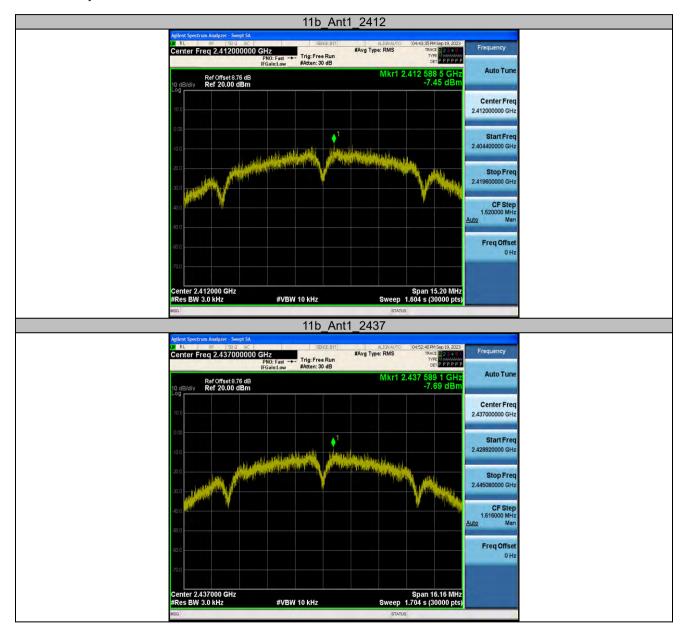


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Test Graphs





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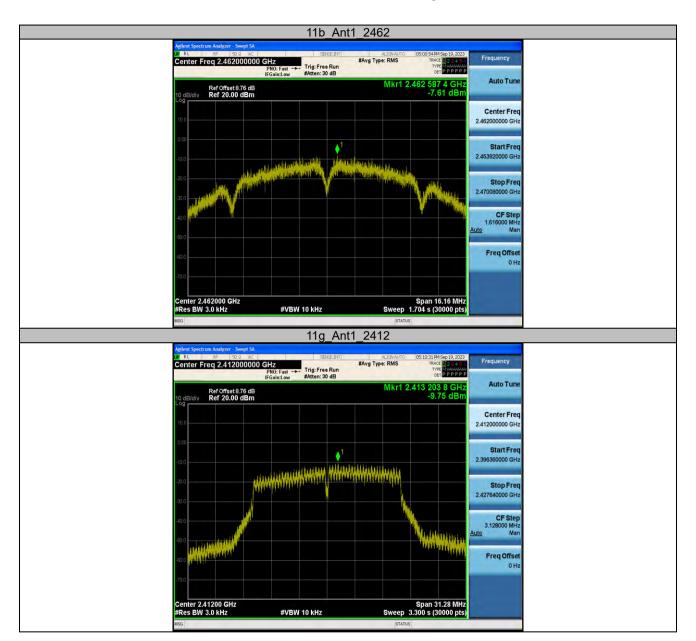
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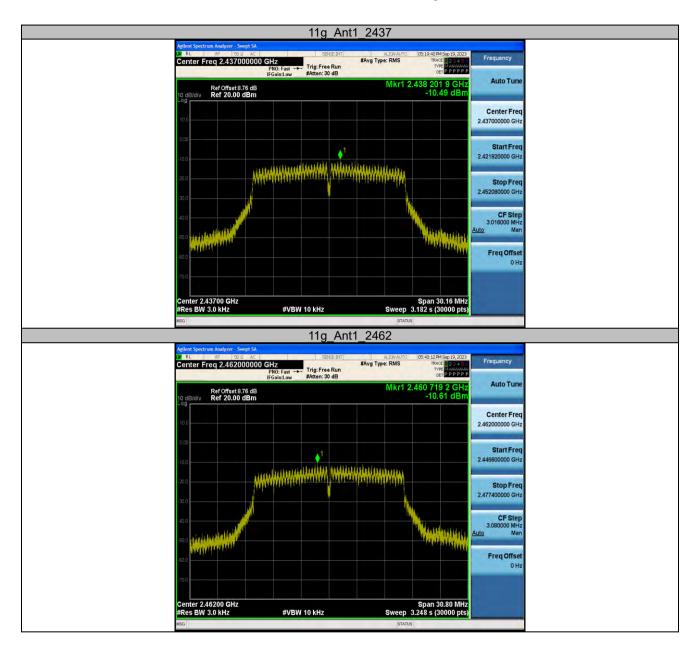
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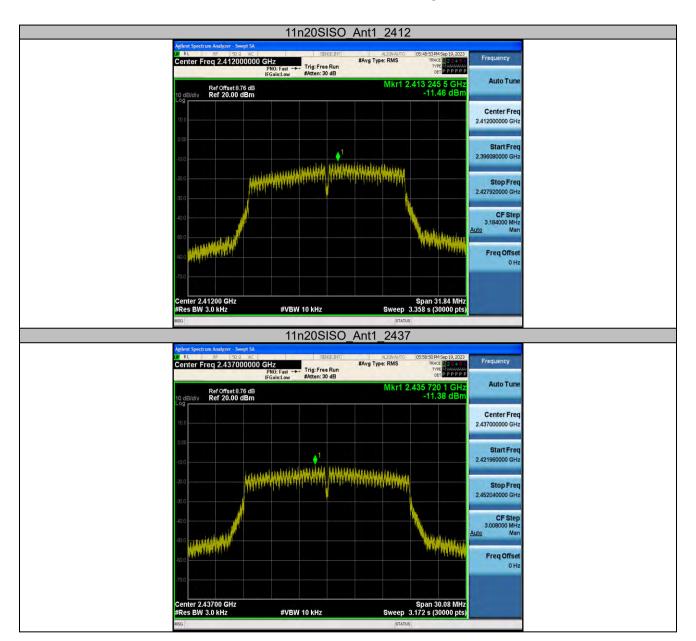
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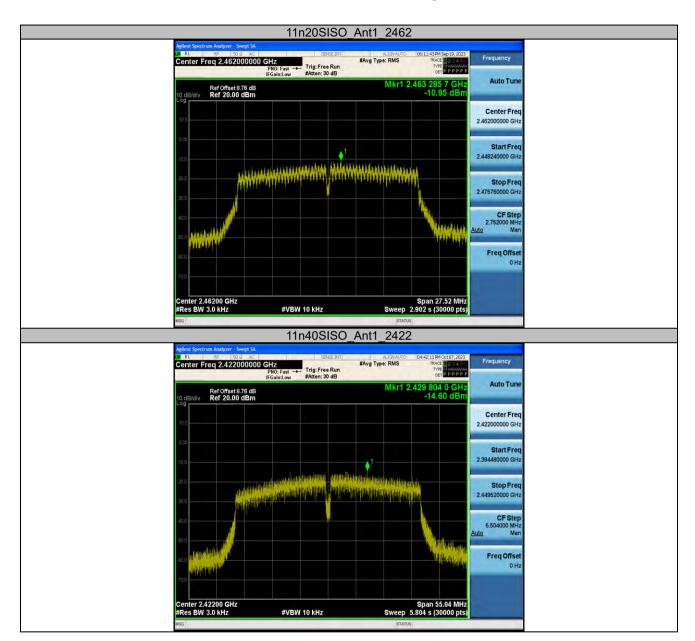
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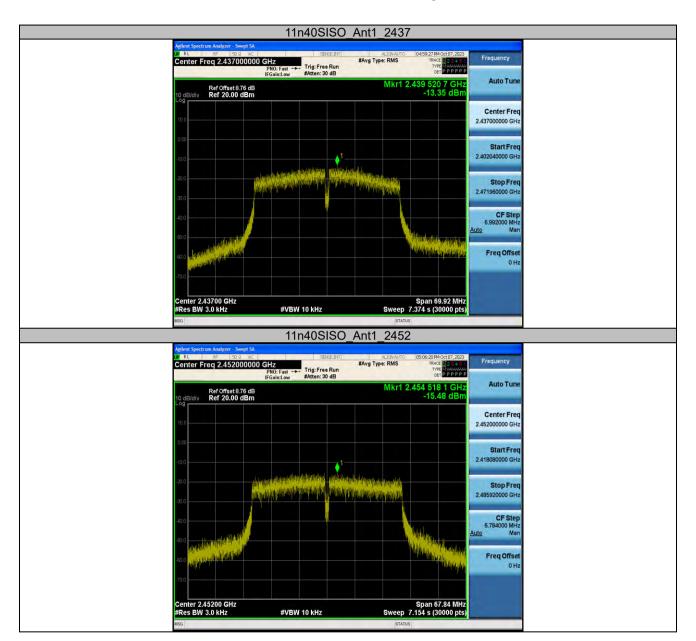
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Band edge measurements Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant1	Low	2412	6.29	-45.06	≤-13.71	PASS
110		High	2462	6.16	-49.12	≤-13.84	PASS
11g	Ant1	Low	2412	4.00	-33.71	≤-16	PASS
		High	2462	4.74	-45.56	≤-15.26	PASS
11n20SISO	Ant1	Low	2412	3.92	-36.5	≤-16.08	PASS
		High	2462	4.11	-44.39	≤-15.89	PASS
11n40SISO	Ant1	Low	2422	1.67	-34.85	≤-18.33	PASS
		High	2452	0.79	-33.8	≤-19.21	PASS



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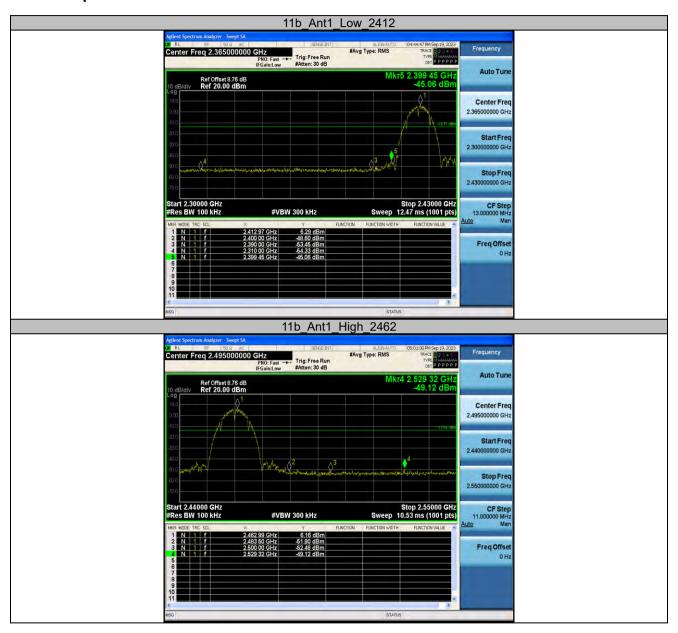


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Test Graphs





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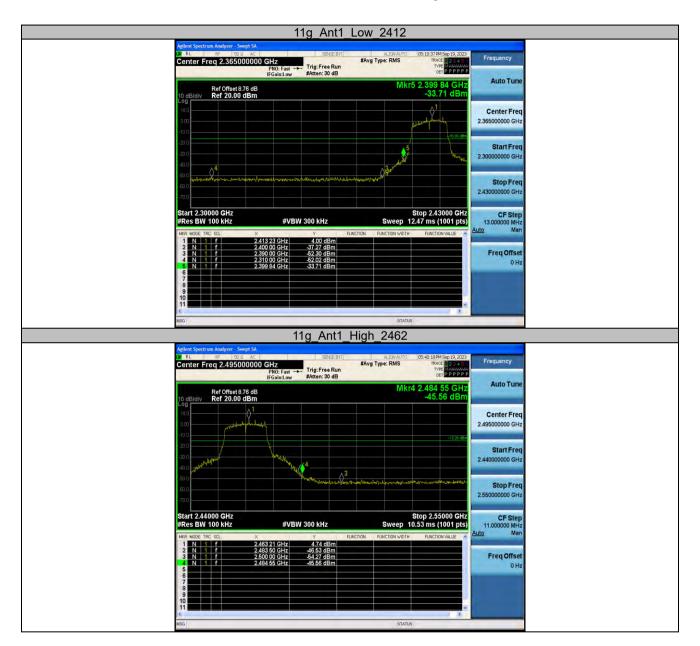
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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		2412	Reference	5.55	5.55		PASS
			30~1000	5.55	-59.62	≤-14.45	PASS
			1000~26500	5.55	-44.77	≤-14.45	PASS
			Reference	6.05	6.05		PASS
11b	Ant1	2437	30~1000	6.05	-60.64	≤-13.95	PASS
			1000~26500	6.05	-46.95	≤-13.95	PASS
			Reference	5.21	5.21		PASS
		2462	30~1000	5.21	-59.46	≤-14.79	PASS
			1000~26500	5.21	-46.19	≤-14.79	PASS
			Reference	0.97	0.97		PASS
		2412	30~1000	0.97	-60.07	≤-19.03	PASS
			1000~26500	0.97	-46.45	≤-19.03	PASS
			Reference	4.03	4.03		PASS
11g	Ant1	2437	30~1000	4.03	-59.79	≤-15.97	PASS
_			1000~26500	4.03	-46.12	≤-15.97	PASS
			Reference	3.05	3.05		PASS
		2462	30~1000	3.05	-60.87	≤-16.95	PASS
			1000~26500	3.05	-46.01	≤-16.95	PASS
	Ant1	2412 2437 2462	Reference	0.59	0.59		PASS
			30~1000	0.59	-60.42	≤-19.41	PASS
			1000~26500	0.59	-46.14	≤-19.41	PASS
			Reference	0.02	0.02		PASS
11n20SISO			30~1000	0.02	-59.72	≤-19.98	PASS
			1000~26500	0.02	-46.57	≤-19.98	PASS
			Reference	0.45	0.45		PASS
			30~1000	0.45	-60.81	≤-19.55	PASS
			1000~26500	0.45	-45.65	≤-19.55	PASS
	Ant1	2422	Reference	-0.37	-0.37		PASS
			30~1000	-0.37	-60.21	≤-20.37	PASS
			1000~26500	-0.37	-45.57	≤-20.37	PASS
11n40SISO		2437	Reference	1.67	1.67		PASS
			30~1000	1.67	-60.56	≤-18.33	PASS
			1000~26500	1.67	-46.52	≤-18.33	PASS
		2452	Reference	-0.45	-0.45		PASS
			30~1000	-0.45	-60.82	≤-20.45	PASS
			1000~26500	-0.45	-42.3	≤-20.45	PASS



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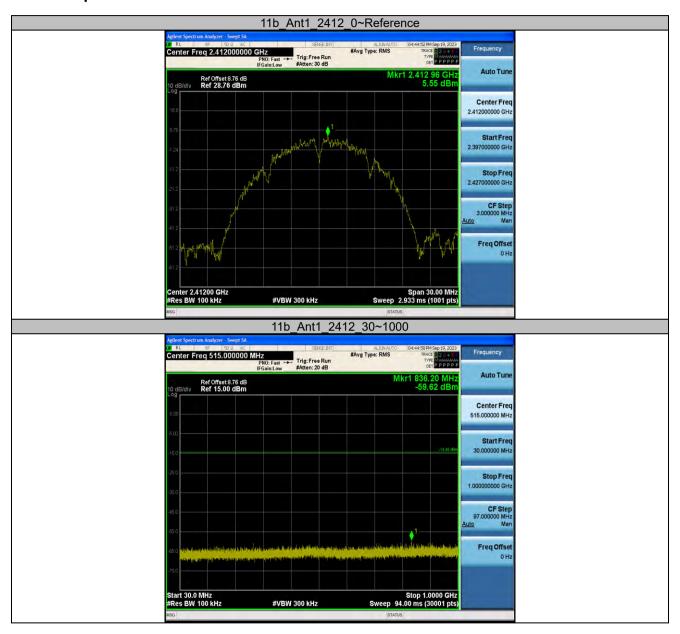


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Test Graphs





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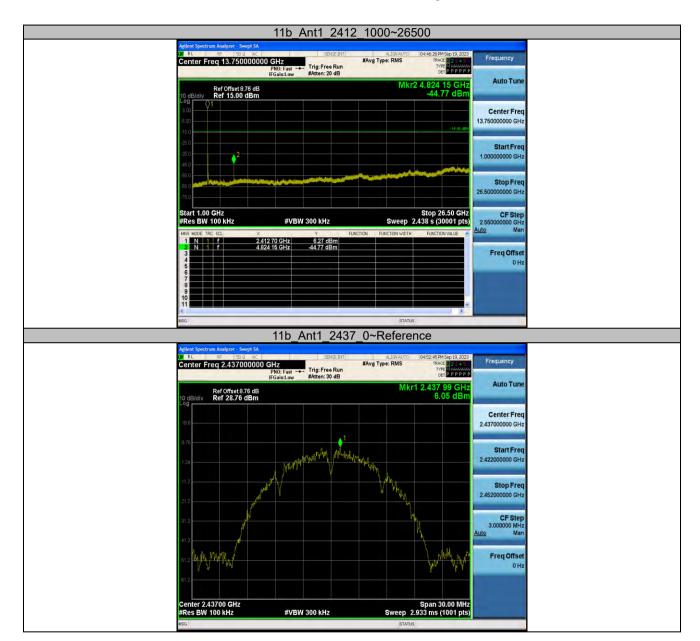
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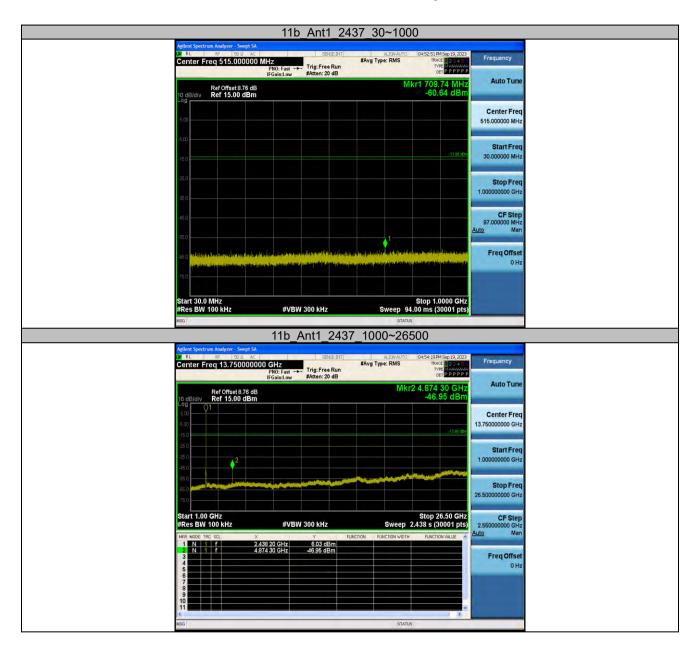
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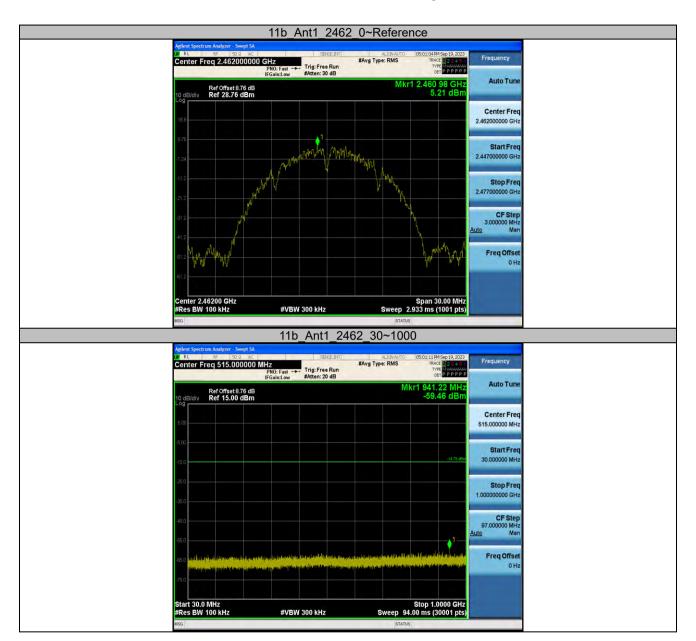
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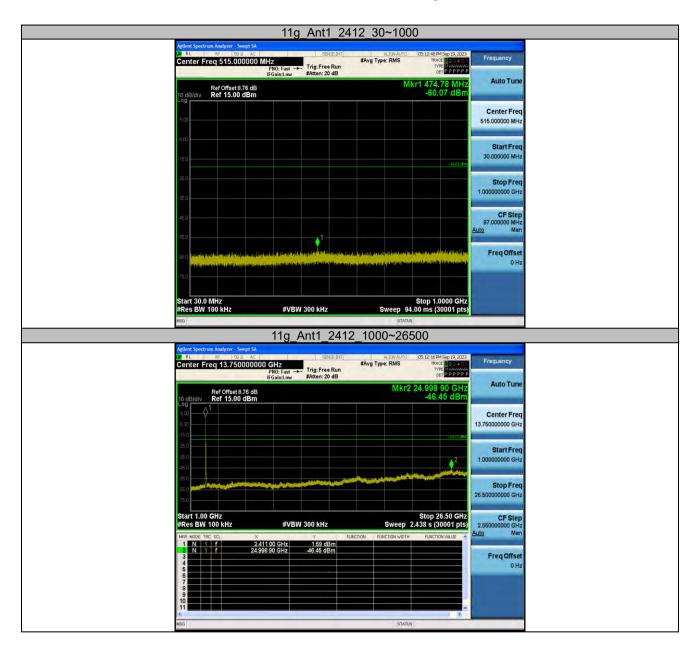
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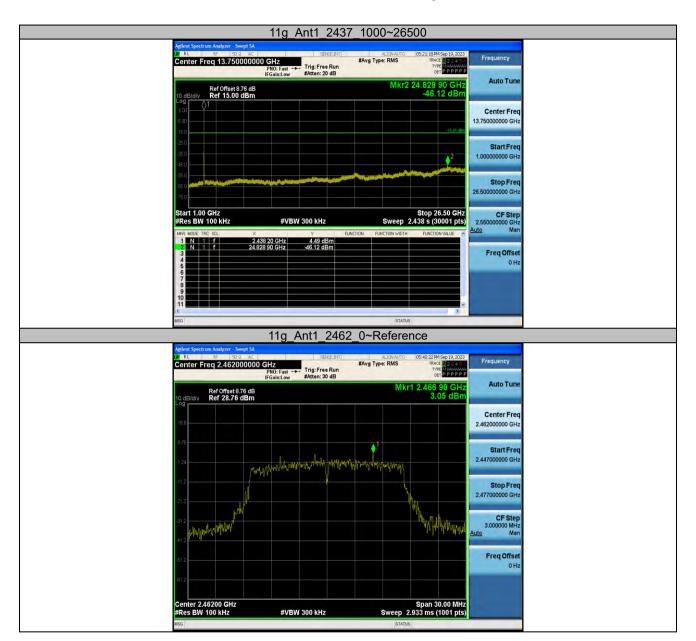
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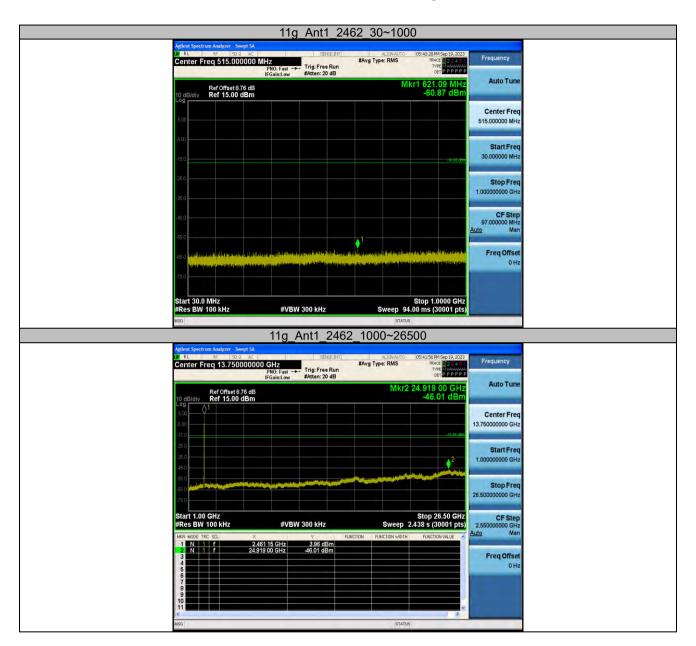
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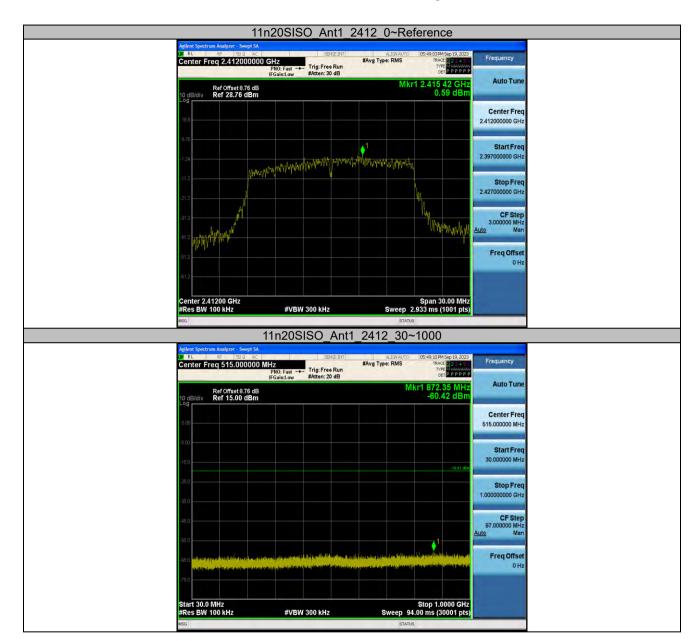
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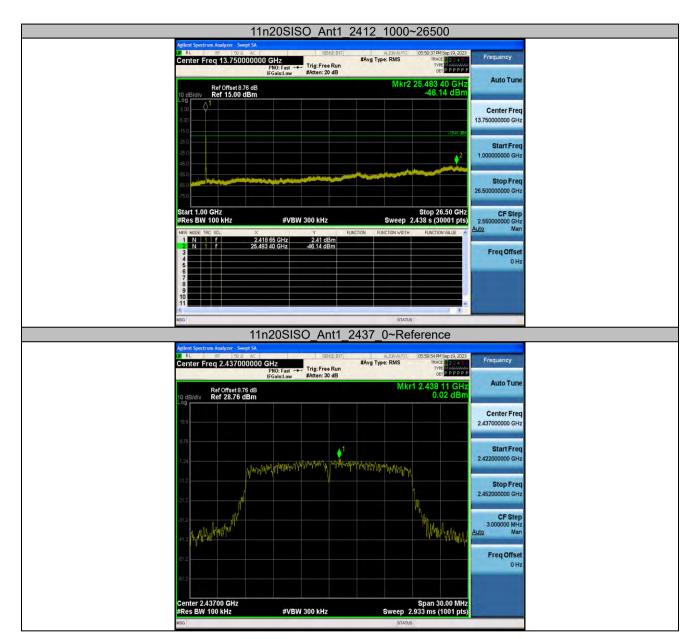
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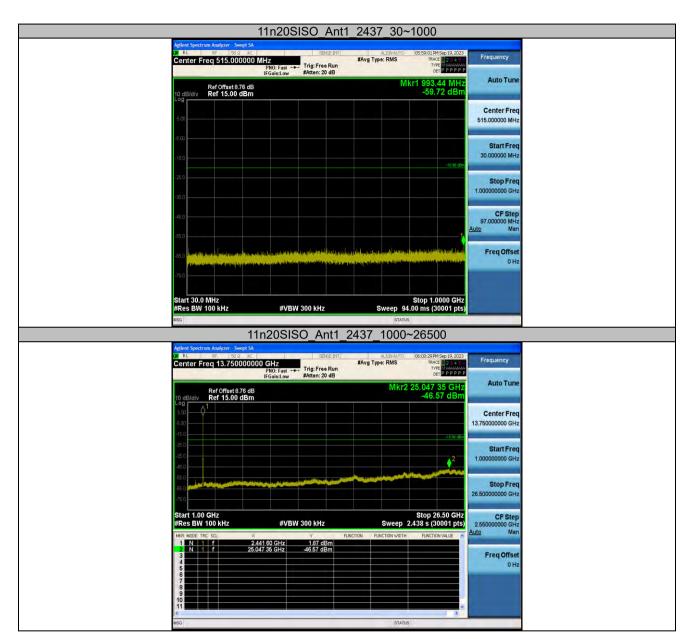
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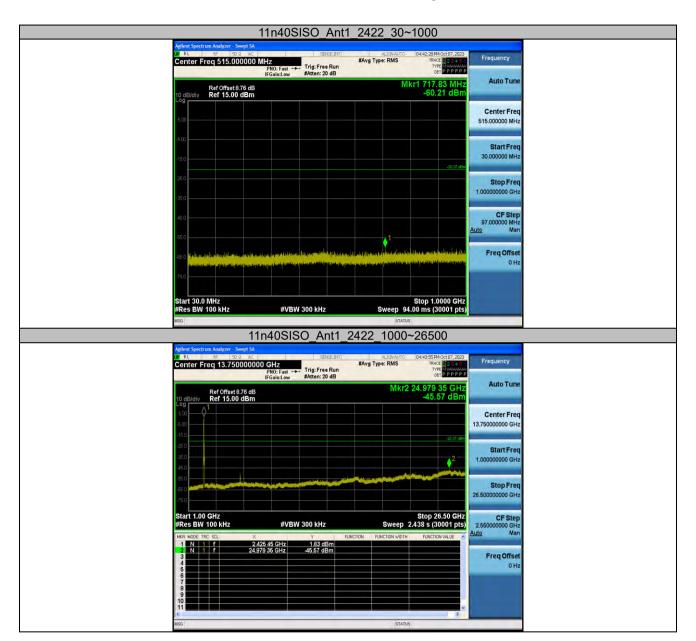
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