

Report No.: SEWM2311000482RG01

Rev.:

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TEST REPORT

Application No.: SEWM2311000482RG

Applicant: Beijing InHand Networks Technology Co., Ltd.

Address of Applicant: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

Manufacturer: Beijing InHand Networks Technology Co., Ltd.

Address of Manufacturer: Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

EUT Description: 5G Fixed Wireless Access

FWA02-NATM, FWA03-NATM,

Model No.: FWA12-NATM, FWA32-NATM,

FWA62-NATM, FWA92-NATM

Trade Mark: inhand

FCC ID: **2AANY-FWANATM**

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/11/27

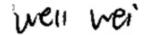
Date of Test: 2023/12/14 to 2023/12/29

Date of Issue: 2023/12/29

PASS * Test Result:

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

Authorized Signature:



Well Wei Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/12/29		Original

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Stone Gu) / 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 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle		ANSI C63.10 2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.1.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

Remark:

According to the Declaration letter from client, these models are the same in these:appearance,PCB layout and basic software function; The only difference is that the products are used in different markets.

Therefore in this report only the Model No.(FWA02-NATM) was tested, and internal wiring were identical for all above items. Only different on model No. for marketing requirement.



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3 General Information

3.1 Details of Client

Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address of Applicant:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing
Manufacturer:	Beijing InHand Networks Technology Co., Ltd.
Address of Manufacturer:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li, Ives Cheng

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	5G Fixed Wireless Access				
	FWA02-NATI	M,FWA03-NA	TM,		
Model No.:	FWA12-NATM,FWA32-NATM, FWA62-NATM,FWA92-NATM				
		M,FWA92-NA	TM		
Trade Mark:	inhand				
Hardware Version:	V2.0				
Software Version:	V1.2				
Power Supply:	12V				
IMEI:	RF Conducte	d	8650	018060005093	
IIVICI.	RSE & AC po	wer line	8650	018060004850	
Operation Fraguency	802.11b/g/n(l	HT20)/ax(HE2	20):	2412MHz to 2462MHz	
Operation Frequency:	802.11n(HT4	0)/ax(HE40):		2422MHz to 2452MHz	
	802.11b:	DSSS (DBP	SK, D	QPSK, CCK)	
Modulation Type:	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)			
	802.11ax:	OFDM/OFD 1024QAM)	MA (E	BPSK, QPSK, 16QAM, 64QAM, 256QAM,	
Number of Channels:	802.11b/g/n(H 802.11n(HT4	, ,	,		
Channel Spacing:	5MHz	0)/ax(11L40).			
Charmer Spacing.	SISO	802.11b/g/n			
Smart System:	⊠ MIMO	802.11b/g/II		IDv	
Smart System.	Diversity	CDD:802.11			
Antenna Type:	External,		b/g .	41% & 40%	
Antenna Type.			2), 4 /	12dD:(Ant2), 4.12dD:(Ant4)	
), 4.130DI(AIII	.2), 4.	13dBi(Ant3); 4.13dBi(Ant4)	
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.				
RF Cable:	1dB				
Remark:					
As above information is pr suitability, reliability or/and			applic	ant. SGS is not liable to the accuracy,	



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					i ago.	7 01 222	
	Operation Frequency of each channel (802.11b/g/n HT20/ax HE20)						
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		
	Oper	ration Freque	ency of each o	hannel (802.	11n HT40/ax I	HE40)	
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) /ax (HE20)	Frequency for 802.11n (HT40) /ax(HE40)
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	101 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~23	12	

Remark:

NV: Normal VoltageNT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.			
Adapter	ShenZhen Kuanten Limited	KT36W120300US			
Remark: The information of table are provided by client.					

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	CDD/MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0	/
802.11n (HT 40)	MCS0	/
802.11ax (HE 20)	/	MCS0
802.11ax (HE 40)	/	MCS0



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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 are 4.13dBi(Ant1); 4.13dBi(Ant2); 4.13dBi(Ant3); 4.13dBi(Ant4).*

*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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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

 For power spectral density (PSD) measurements on all devices, Array Gain = 10 log(N_{ANT}/N_{SS} = 1) dB.

For power measurements on IEEE 802.11 devices:
 Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4;

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

ANT Gain1 (dBi)	ANT Gain2 (dBi)	ANT Gain3 (dBi)	ANT Gain4 (dBi)	Power DG (dBi)	PSD DG (dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
4.13	4.13	4.13	4.13	4.13	10.15	0	4.15

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain - 6dBi, (Directional gain > 6dBi) =10.15-6=4.15



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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: 2013 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz				
Limit:	Francisco (MIII-)	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 logar	arithm of the frequency.				
		ugh a LISN 1 (Line 0Ω/50μH + 5Ω linear EUT were connected to ference g measured. A ble power cables to a xceeded. table 0.8m above the ement, the EUT was rence plane. The rear erence plane. The rizontal ground the boundary of the the for LISNs istance was 1. All other units of the from the LISN 2. to sitions of				



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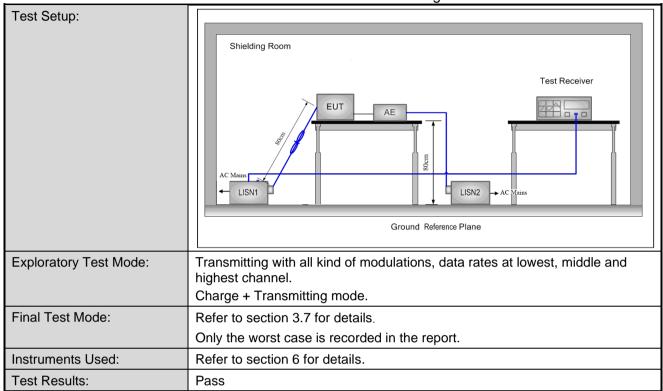
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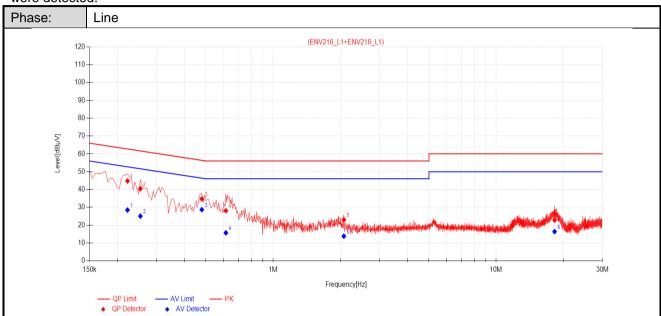
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Measurement Data

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.	Frequency [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	0.2220	11.77	33.05	44.82	62.74	17.92	16.74	28.51	52.74	24.23	PASS
2	0.2535	11.69	28.78	40.47	61.64	21.17	13.40	25.09	51.64	26.55	PASS
3	0.4785	11.51	23.26	34.77	56.37	21.60	17.21	28.72	46.37	17.65	PASS
4	0.6135	11.48	16.65	28.13	56.00	27.87	4.25	15.73	46.00	30.27	PASS
5	2.0760	11.55	11.53	23.08	56.00	32.92	2.27	13.82	46.00	32.18	PASS
6	18.3165	11.94	10.90	22.84	60.00	37.16	4.46	16.40	50.00	33.60	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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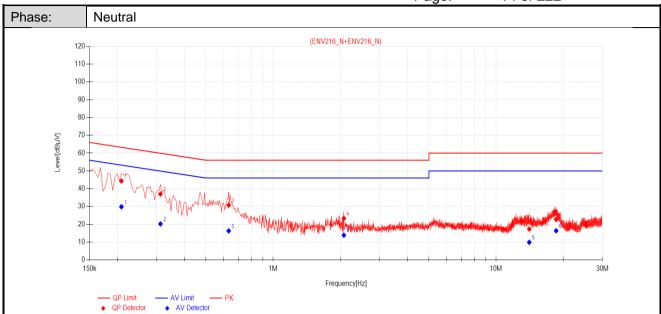
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Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2085	11.81	32.51	44.32	63.26	18.94	18.05	29.86	53.26	23.40	PASS
2	0.3120	11.57	25.45	37.02	59.92	22.90	8.67	20.24	49.92	29.68	PASS
3	0.6315	11.48	19.33	30.81	56.00	25.19	4.84	16.32	46.00	29.68	PASS
4	2.0760	11.55	11.80	23.35	56.00	32.65	2.32	13.87	46.00	32.13	PASS
5	14.1000	11.85	5.48	17.33	60.00	42.67	-1.95	9.90	50.00	40.10	PASS
6	18.6180	11.95	10.82	22.77	60.00	37.23	4.45	16.40	50.00	33.60	PASS

Remark:

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



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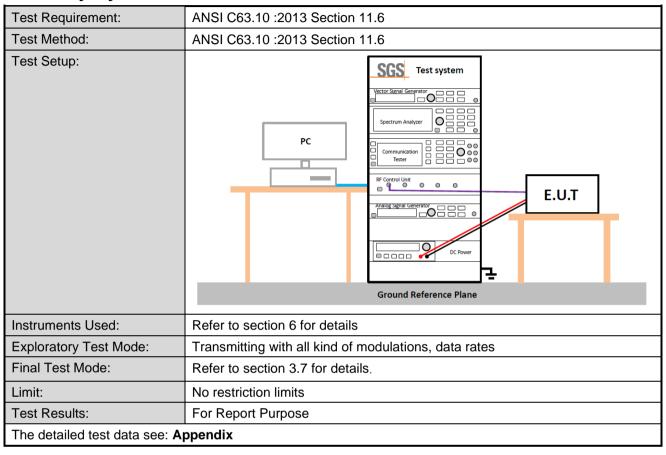


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4.3 Duty Cycle





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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10 :2013 Section11.9.1.3			
Test Setup:	Power meter Power probe F.U.T			
	Ground Reference Plane			
	* Test with power meter (Detector function: Peak)			
Test Instruments:	Refer to section 6 for details.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7 for details.			
Limit:	30dBm			
Test Results:	Pass			
The detailed test data see: A	The detailed test data see: Appendix			



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3			
Test Setup:	PC Spectrum Analyzer Spectrum Analyzer			
Instruments Used:	Refer to section 6 for details.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7 for details.			
Limit:	≥ 500 kHz for DTS Bandwidth			
Test Results:	Pass			
The detailed test data see: Ap	pendix			



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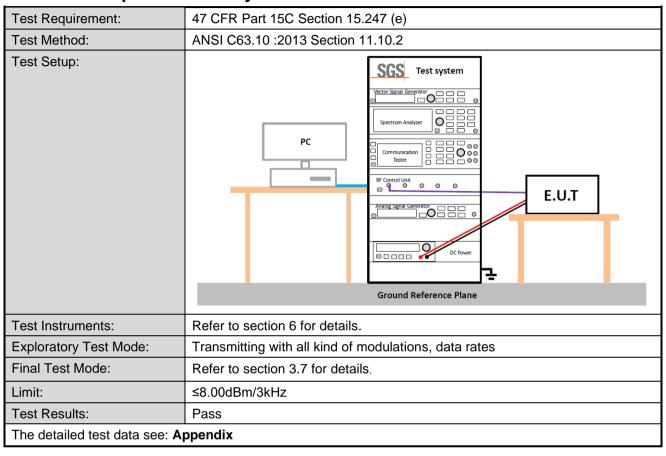


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4.6 Power Spectral Density





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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10: 2013 Section 11.11			
Test Setup:	PC Signal Generator			
Instruments Used:	Refer to section 6 for details.			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7 for details.			
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			
The detailed test data see: A	ppendix			



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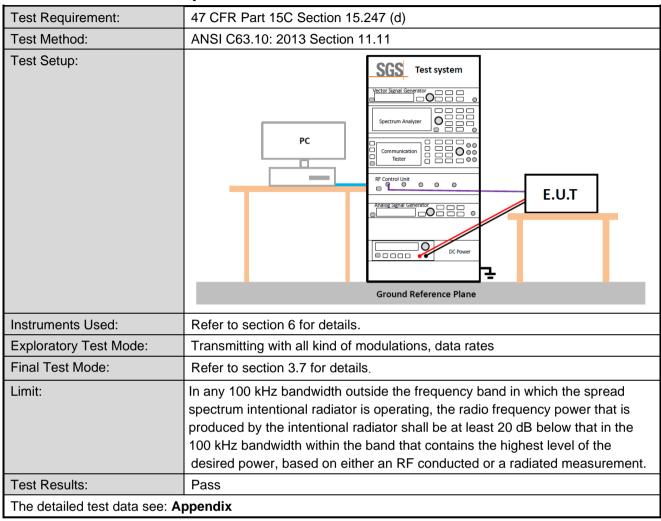


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4.8 RF Conducted Spurious Emissions





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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 :2013 Section 11.12					
Test Site:	Measurement Distance:	3m (Semi-Anechoi	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 IGnz	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	
	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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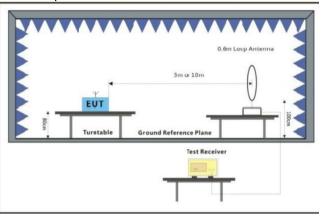


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Test Setup:



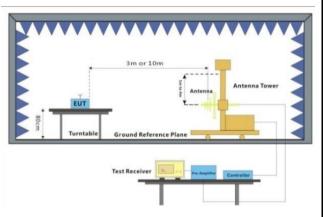


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

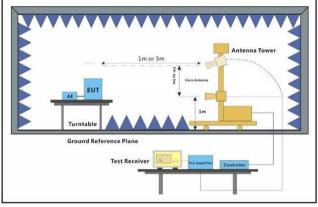


Figure 3. Above 1 GHz

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 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.



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	 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 X 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.			
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB. 			
Test Configuration:	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.			
Instruments Used:	Refer to section 6 for details.			
Test Results:	Pass			
The detailed test data see				
The detailed lest data see. Appendix				



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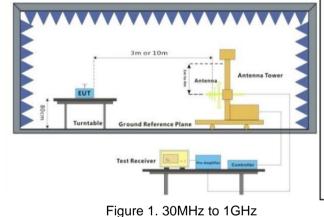
Rev.: 01

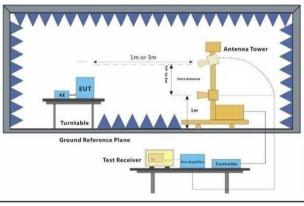
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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	per)				
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:





IHz to 1GHz Figure 2. Above 1 GHz



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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-recieving 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 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 X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Measurements Below 1000MHz • RBW = 104 kHz • VBW = 30 kHz • Detector = Quasi-peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000 MHz • RBW = 1 hHz, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. •	-	1 agc. 20 01 222				
 b. For above 1 GHz, 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 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 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 X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Measurements Below 1000MHz • RBW = 120 kHz • VBW ≥ 30 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz, when duty cycle is no less th	Test Procedure:	above the ground at a 3 or 10 meter semi-anechoic camber. The table was				
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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 = 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.	Test Configuration:	Measurements Below 1000MHz				
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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.		·				
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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.		·				
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Charge + Transmitting mode. Final Test Mode: Refer to section 3.7 for details.	Exploratory Test Mode:	-				
Final Test Mode: Refer to section 3.7 for details.	, , , , , , , , , , , , , , , , , , , ,					
Instruments Used: Refer to section 6 for details.	Final Test Mode:					
	Instruments Used:	Refer to section 6 for details.				



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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	Total RF power, conducted	±0.54dB		
2	RF power density, conducted	±1.03dB		
3	Spurious emissions, conducted	±0.54dB		
4	Radio Frequency	±1.0 %		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	±1.0 %		
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
8	Radiated Emission	± 4.8dB (30M -1GHz)		
		± 4.8dB (1GHz to 18GHz)		
		± 4.80dB (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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Equipment List

RF Test Equipment						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	1-01-01-07 2023/02/06		
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10	
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR	
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05	
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05	
DC Power Supply	- I HVELEC HV3005R SIIW/L01-18-01		2023/02/06	2024/02/05		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20	
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2023/11/21	2024/11/20	

Conduction Test Equipment						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07	
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR	



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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	SUWI-04-02-01	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	TH101B SUWI-01-01-05 2023/02/07		2024/02/06		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12		
Receiving antenna			SUWI-01-11-02	2023/05/13	2024/05/12		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07		
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR		



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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	Ant2	2412	8.12	2407.92	2416.04	≥0.5	PASS
11b	Ant2	2437	7.64	2432.92	2440.56	≥0.5	PASS
11b	Ant2	2462	8.08	2457.96	2466.04	≥0.5	PASS
11g	Ant2	2412	14.28	2405.32	2419.60	≥0.5	PASS
11g	Ant2	2437	16.36	2428.80	2445.16	≥0.5	PASS
11g	Ant2	2462	14.52	2454.40	2468.92	≥0.5	PASS
11n20SISO	Ant2	2412	15.20	2404.40	2419.60	≥0.5	PASS
11n20SISO	Ant2	2437	15.24	2429.36	2444.60	≥0.5	PASS
11n20SISO	Ant2	2462	15.20	2454.40	2469.60	≥0.5	PASS
11n40SISO	Ant2	2422	35.28	2404.32	2439.60	≥0.5	PASS
11n40SISO	Ant2	2437	34.00	2420.60	2454.60	≥0.5	PASS
11n40SISO	Ant2	2452	32.80	2436.80	2469.60	≥0.5	PASS
11ax20MIMO	Ant1	2412	17.60	2403.44	2421.04	≥0.5	PASS
11ax20MIMO	Ant2	2412	17.72	2403.16	2420.88	≥0.5	PASS
11ax20MIMO	Ant3	2412	17.88	2403.16	2421.04	≥0.5	PASS
11ax20MIMO	Ant4	2412	16.88	2403.16	2420.04	≥0.5	PASS
11ax20MIMO	Ant1	2437	18.00	2427.84	2445.84	≥0.5	PASS
11ax20MIMO	Ant2	2437	18.88	2427.44	2446.32	≥0.5	PASS
11ax20MIMO	Ant3	2437	18.76	2427.44	2446.20	≥0.5	PASS
11ax20MIMO	Ant4	2437	18.84	2427.64	2446.48	≥0.5	PASS
11ax20MIMO	Ant1	2462	17.68	2453.20	2470.88	≥0.5	PASS
11ax20MIMO	Ant2	2462	18.12	2452.68	2470.80	≥0.5	PASS
11ax20MIMO	Ant3	2462	17.84	2453.44	2471.28	≥0.5	PASS
11ax20MIMO	Ant4	2462	16.44	2454.40	2470.84	≥0.5	PASS
11ax40MIMO	Ant1	2422	35.60	2404.32	2439.92	≥0.5	PASS
11ax40MIMO	Ant2	2422	36.16	2404.32	2440.48	≥0.5	PASS
11ax40MIMO	Ant3	2422	36.48	2404.40	2440.88	≥0.5	PASS
11ax40MIMO	Ant4	2422	35.76	2403.84	2439.60	≥0.5	PASS
11ax40MIMO	Ant1	2437	37.76	2418.12	2455.88	≥0.5	PASS
11ax40MIMO	Ant2	2437	38.24	2417.80	2456.04	≥0.5	PASS
11ax40MIMO	Ant3	2437	37.92	2418.12	2456.04	≥0.5	PASS
11ax40MIMO	Ant4	2437	38.16	2417.88	2456.04	≥0.5	PASS
11ax40MIMO	Ant1	2452	37.68	2433.12	2470.80	≥0.5	PASS
11ax40MIMO	Ant2	2452	36.96	2433.12	2470.08	≥0.5	PASS
11ax40MIMO	Ant3	2452	37.68	2433.12	2470.80	≥0.5	PASS
11ax40MIMO	Ant4	2452	36.24	2433.60	2469.84	≥0.5	PASS



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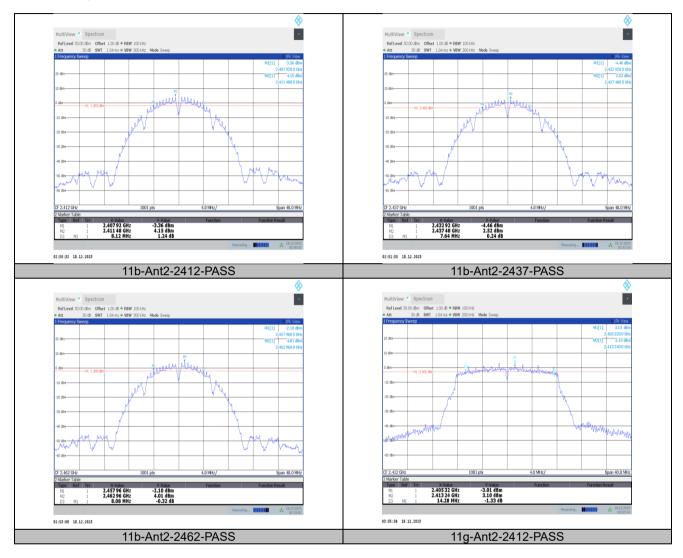


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Test Graphs





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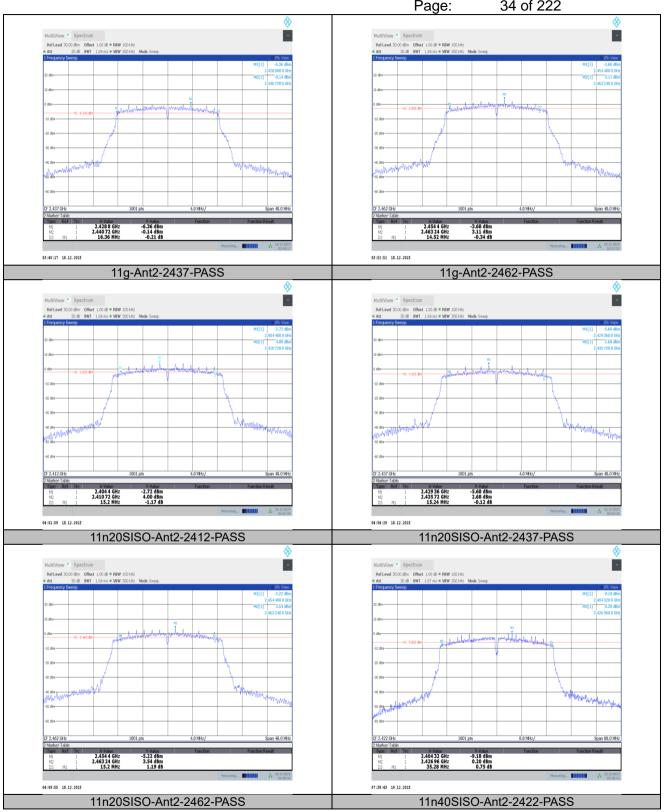
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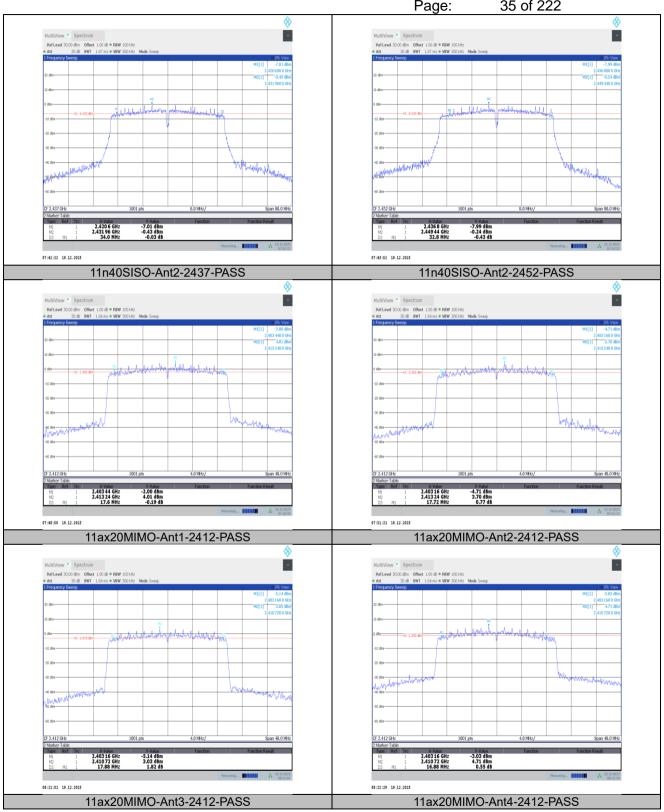
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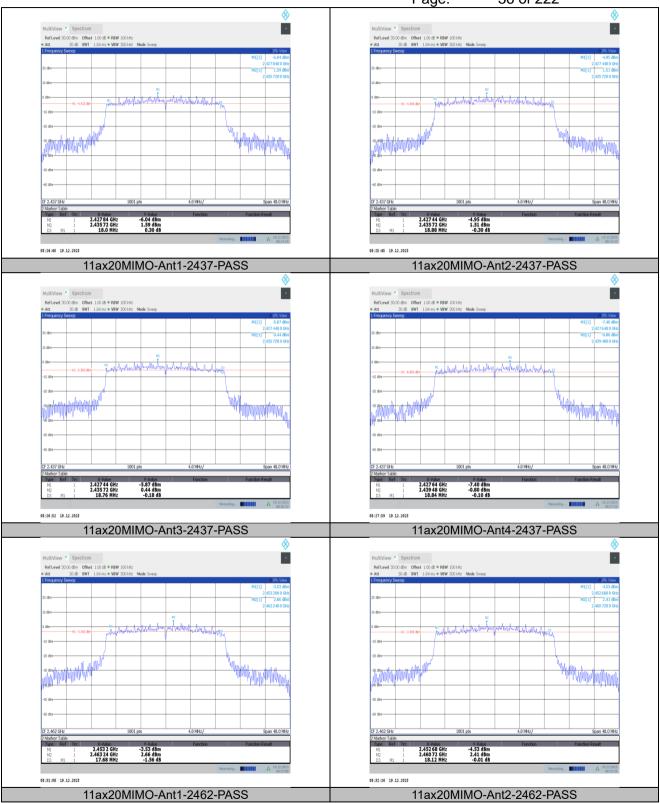
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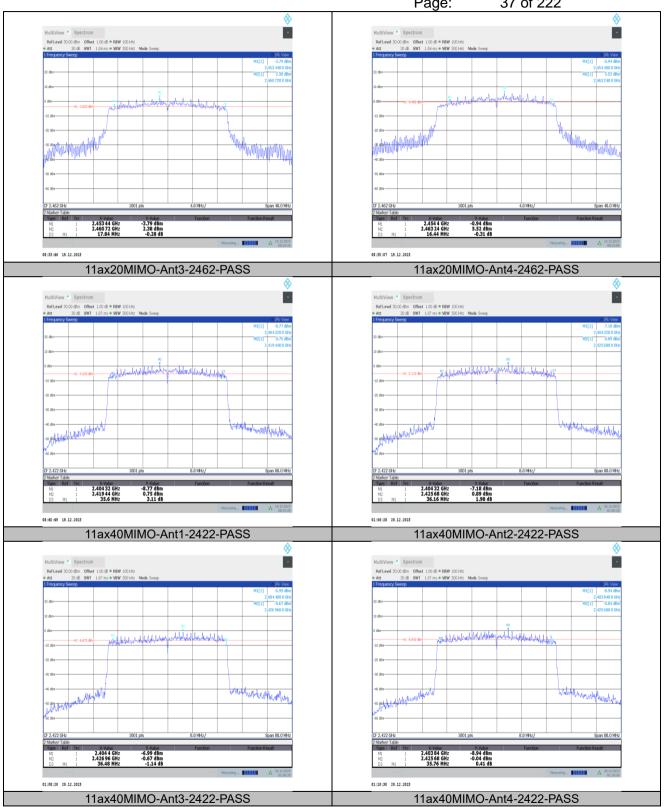
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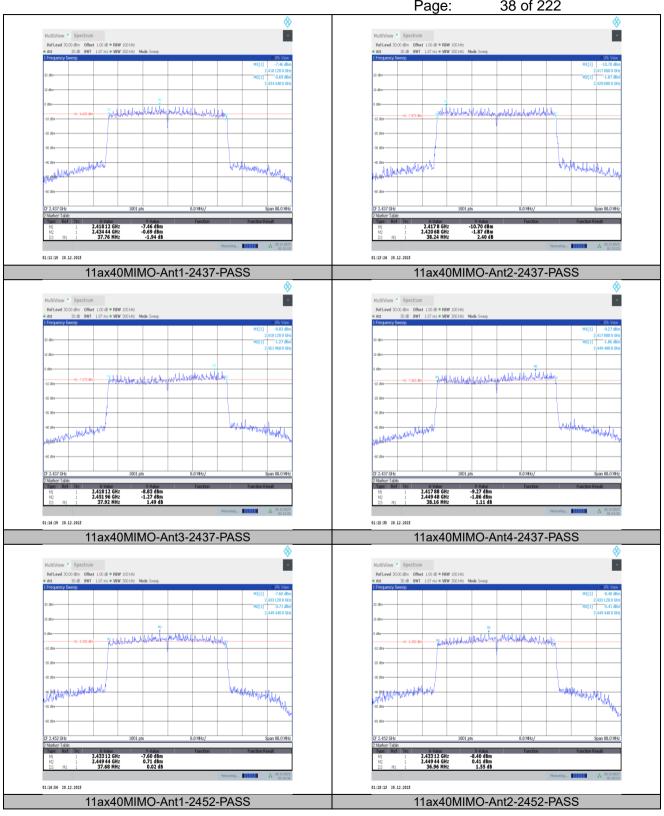
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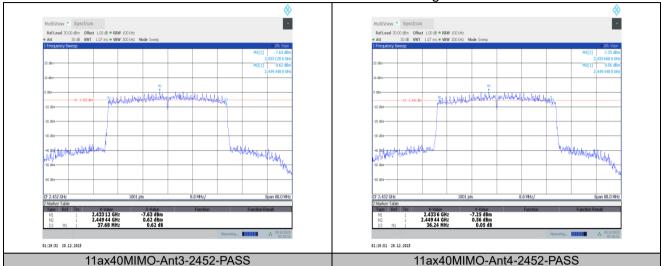
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant2	2412	12.737	2405.6613	2418.3985	
11b	Ant2	2437	12.854	2430.4948	2443.3491	
11b	Ant2	2462	12.722	2455.6530	2468.3753	
11g	Ant2	2412	16.912	2403.5285	2420.4403	
11g	Ant2	2437	16.96	2428.4813	2445.4413	
11g	Ant2	2462	16.766	2453.5865	2470.3527	
11n20SISO	Ant2	2412	17.853	2403.0692	2420.9224	
11n20SISO	Ant2	2437	17.921	2428.0120	2445.9327	
11n20SISO	Ant2	2462	17.799	2453.0688	2470.8675	
11n40SISO	Ant2	2422	35.983	2404.0234	2440.0061]
11n40SISO	Ant2	2437	36.34	2418.8086	2455.1485]
11n40SISO	Ant2	2452	36.449	2433.7683	2470.2176]
11ax20MIMO	Ant1	2412	18.887	2402.5788	2421.4659	
11ax20MIMO	Ant2	2412	18.812	2402.6509	2421.4625	
11ax20MIMO	Ant3	2412	18.891	2402.5446	2421.4361	
11ax20MIMO	Ant4	2412	18.809	2402.5496	2421.3589	
11ax20MIMO	Ant1	2437	19.241	2427.3682	2446.6095	F
11ax20MIMO	Ant2	2437	19.157	2427.4035	2446.5605	For Report
11ax20MIMO	Ant3	2437	19.279	2427.3064	2446.5854	Purpose
11ax20MIMO	Ant4	2437	19.256	2427.3563	2446.6121	Fulpose
11ax20MIMO	Ant1	2462	19.085	2452.4013	2471.4867	
11ax20MIMO	Ant2	2462	19.12	2452.4055	2471.5256	
11ax20MIMO	Ant3	2462	19.04	2452.4159	2471.4559	
11ax20MIMO	Ant4	2462	19.012	2452.4599	2471.4716	
11ax40MIMO	Ant1	2422	37.576	2403.1813	2440.7574	
11ax40MIMO	Ant2	2422	37.736	2403.2252	2440.9611	
11ax40MIMO	Ant3	2422	37.819	2403.1525	2440.9716	
11ax40MIMO	Ant4	2422	37.592	2403.2120	2440.8037	
11ax40MIMO	Ant1	2437	38.145	2417.8831	2456.0282	
11ax40MIMO	Ant2	2437	38.113	2417.9191	2456.0324	
11ax40MIMO	Ant3	2437	38.159	2417.9775	2456.1365	
11ax40MIMO	Ant4	2437	38.153	2418.0273	2456.1803	
11ax40MIMO	Ant1	2452	37.714	2433.1689	2470.8827	
11ax40MIMO	Ant2	2452	37.72	2433.1564	2470.8761]
11ax40MIMO	Ant3	2452	37.651	2433.1985	2470.8500	
11ax40MIMO	Ant4	2452	37.751	2433.1593	2470.9106	



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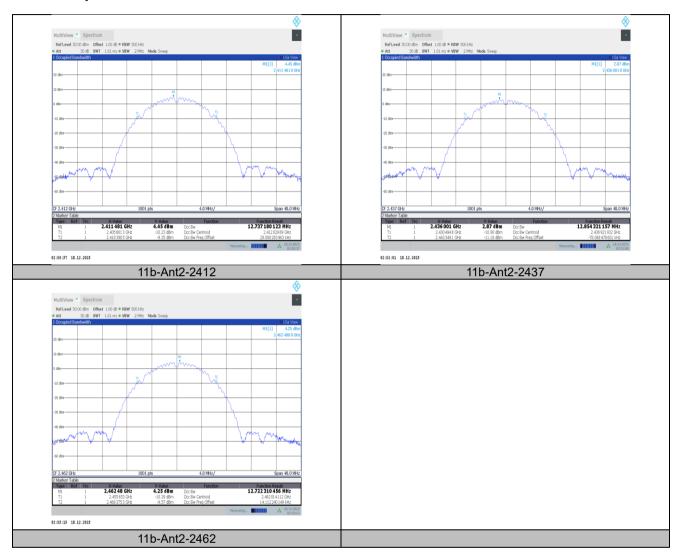


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Test Graphs





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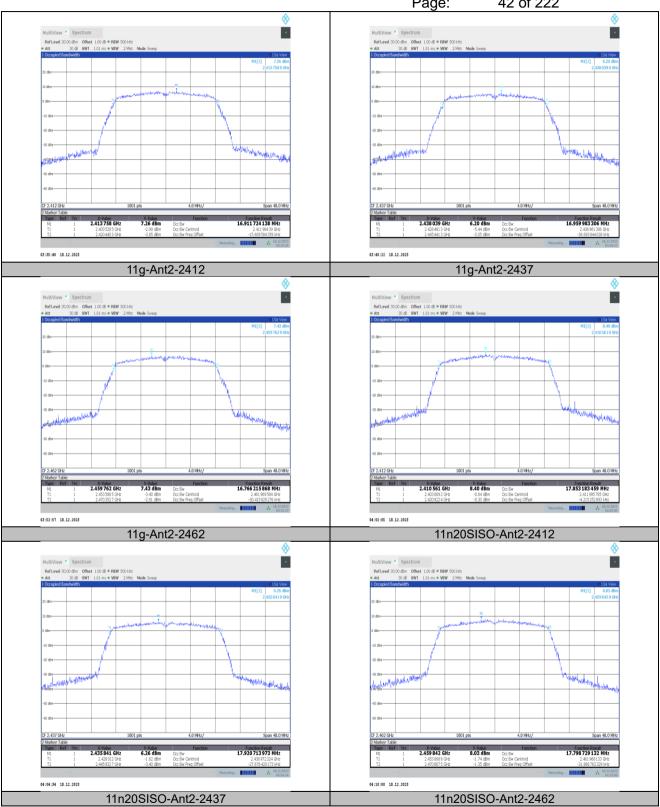
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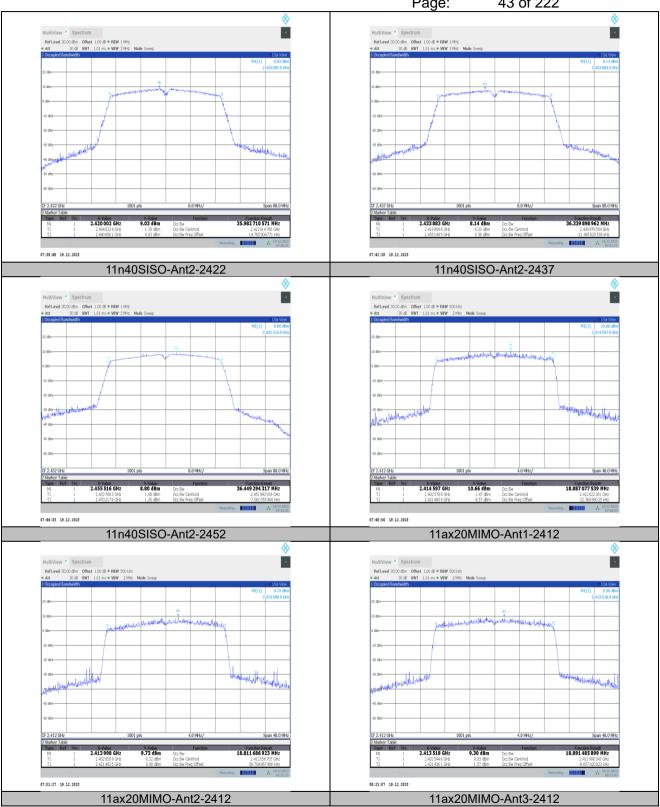
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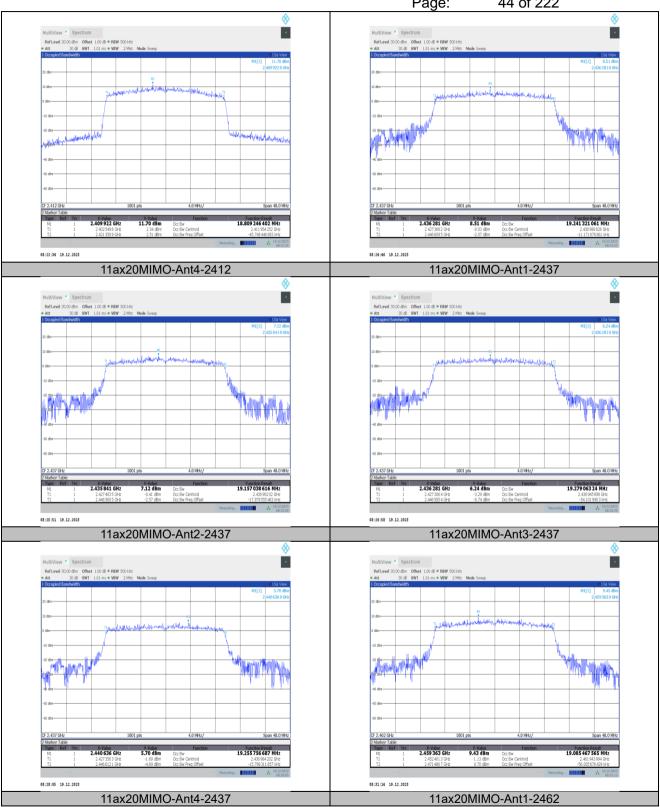
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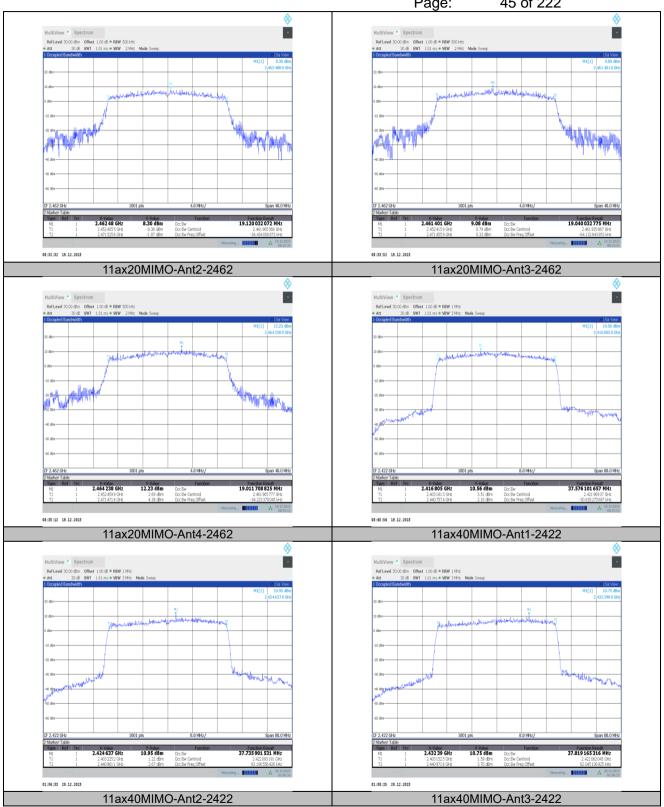
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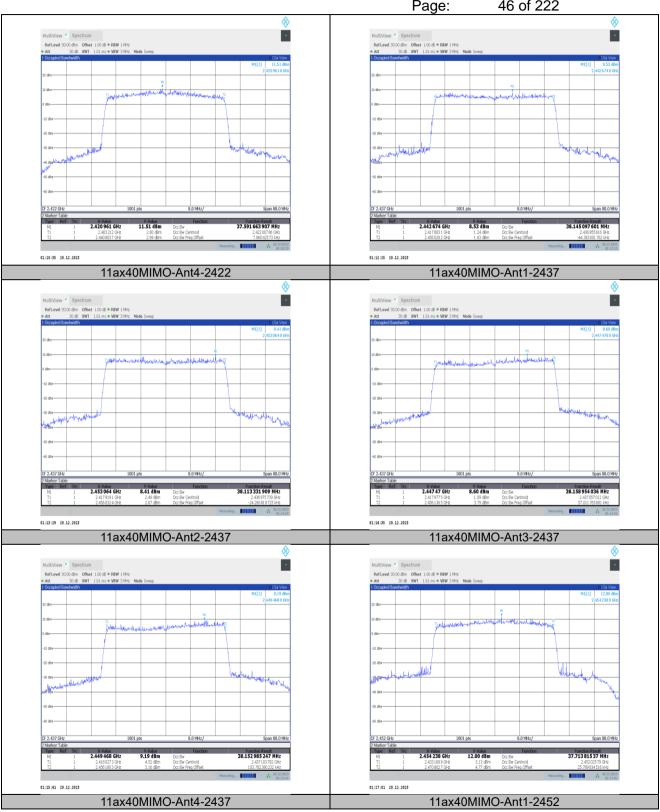
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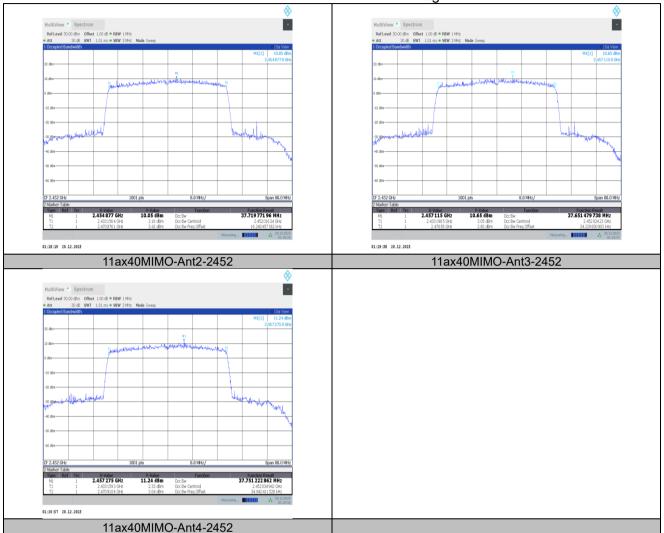
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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	15.03	≤30.00	PASS
11b	Ant1	2437	14.67	≤30.00	PASS
11b	Ant1	2462	14.79	≤30.00	PASS
11g	Ant1	2412	22.61	≤30.00	PASS
11g	Ant1	2437	22.63	≤30.00	PASS
11g	Ant1	2462	22.59	≤30.00	PASS
11b	Ant2	2412	15.23	≤30.00	PASS
11b	Ant2	2437	15.00	≤30.00	PASS
11b	Ant2	2462	15.36	≤30.00	PASS
11g	Ant2	2412	22.88	≤30.00	PASS
11g	Ant2	2437	22.43	≤30.00	PASS
11g	Ant2	2462	22.79	≤30.00	PASS
11b	Ant3	2412	15.10	≤30.00	PASS
11b	Ant3	2437	14.87	≤30.00	PASS
11b	Ant3	2462	15.03	≤30.00	PASS
11g	Ant3	2412	22.69	≤30.00	PASS
11g	Ant3	2437	22.36	≤30.00	PASS
11g	Ant3	2462	22.58	≤30.00	PASS
11b	Ant4	2412	15.13	≤30.00	PASS
11b	Ant4	2437	15.23	≤30.00	PASS
11b	Ant4	2462	15.06	≤30.00	PASS
11g	Ant4	2412	22.73	≤30.00	PASS
11g	Ant4	2437	22.69	≤30.00	PASS
11g	Ant4	2462	22.71	≤30.00	PASS
11n20SISO	Ant1	2412	23.12	≤30.00	PASS
11n20SISO	Ant1	2437	22.63	≤30.00	PASS
11n20SISO	Ant1	2462	22.89	≤30.00	PASS
11n40SISO	Ant1	2422	23.51	≤30.00	PASS
11n40SISO	Ant1	2437	23.01	≤30.00	PASS
11n40SISO	Ant1	2452	23.32	≤30.00	PASS
11n20SISO	Ant2	2412	23.16	≤30.00	PASS
11n20SISO	Ant2	2437	22.67	≤30.00	PASS
11n20SISO	Ant2	2462	23.01	≤30.00	PASS
11n40SISO	Ant2	2422	23.59	≤30.00	PASS
11n40SISO	Ant2	2437	23.06	≤30.00	PASS
11n40SISO	Ant2	2452	23.37	≤30.00	PASS
11n20SISO	Ant3	2412	23.12	≤30.00	PASS
11n20SISO	Ant3	2437	22.61	≤30.00	PASS
11n20SISO	Ant3	2462	22.98	≤30.00	PASS
11n40SISO	Ant3	2422	22.51	≤30.00	PASS
11n40SISO	Ant3	2437	22.87	≤30.00	PASS
11n40SISO	Ant3	2452	23.39	≤30.00	PASS
11n20SISO	Ant4	2412	23.06	≤30.00	PASS
11n20SISO	Ant4	2437	22.62	≤30.00	PASS
11n20SISO	Ant4	2462	22.88	≤30.00	PASS
11n40SISO	Ant4	2422	22.47	≤30.00	PASS
11n40SISO	Ant4	2437	23.06	≤30.00	PASS
11n40SISO	Ant4	2452	23.41	≤30.00	PASS
11ax20MIMO	Ant1	2412	22.99	≤30.00	PASS
11ax20MIMO	Ant2	2412	22.74	≤30.00	PASS



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11ax20MIMO	Ant3	2412	21.79	≤30.00	PASS
11ax20MIMO	Ant4	2412	22.97	≤30.00	PASS
11ax20MIMO	total	2412	28.67	≤30.00	PASS
11ax20MIMO	Ant1	2437	21.79	≤30.00	PASS
11ax20MIMO	Ant2	2437	20.74	≤30.00	PASS
11ax20MIMO	Ant3	2437	20.32	≤30.00	PASS
11ax20MIMO	Ant4	2437	21.49	≤30.00	PASS
11ax20MIMO	total	2437	27.14	≤30.00	PASS
11ax20MIMO	Ant1	2462	22.67	≤30.00	PASS
11ax20MIMO	Ant2	2462	22.23	≤30.00	PASS
11ax20MIMO	Ant3	2462	22.01	≤30.00	PASS
11ax20MIMO	Ant4	2462	22.74	≤30.00	PASS
11ax20MIMO	total	2462	28.44	≤30.00	PASS
11ax40MIMO	Ant1	2422	22.74	≤30.00	PASS
11ax40MIMO	Ant2	2422	23.06	≤30.00	PASS
11ax40MIMO	Ant3	2422	22.98	≤30.00	PASS
11ax40MIMO	Ant4	2422	22.01	≤30.00	PASS
11ax40MIMO	total	2422	28.74	≤30.00	PASS
11ax40MIMO	Ant1	2437	21.67	≤30.00	PASS
11ax40MIMO	Ant2	2437	22.32	≤30.00	PASS
11ax40MIMO	Ant3	2437	22.06	≤30.00	PASS
11ax40MIMO	Ant4	2437	21.06	≤30.00	PASS
11ax40MIMO	total	2437	27.82	≤30.00	PASS
11ax40MIMO	Ant1	2452	22.32	≤30.00	PASS
11ax40MIMO	Ant2	2452	22.06	≤30.00	PASS
11ax40MIMO	Ant3	2452	22.47	≤30.00	PASS
11ax40MIMO	Ant4	2452	21.78	≤30.00	PASS
11ax40MIMO	total	2452	28.19	≤30.00	PASS



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Test Result Peak for AX Part RU

Test			Ru	Ru		Conducted	
Mode	Antenna	Frequency[MHz]	Size	Index	Peak Powert[dBm]	Limit[dBm]	Verdict
11ax20MIMO	Ant1	2412	26Tone	RU0	13.24	≤30.00	PASS
11ax20MIMO	Ant1	2412	52Tone	RU37	17.60	≤30.00	PASS
11ax20MIMO	Ant1	2412	106Tone	RU53	21.29	≤30.00	PASS
11ax20MIMO	Ant2	2412	26Tone	RU0	12.12	≤30.00	PASS
11ax20MIMO	Ant2	2412	52Tone	RU37	17.62	≤30.00	PASS
11ax20MIMO	Ant2	2412	106Tone	RU53	21.21	≤30.00	PASS
11ax20MIMO	Ant3	2412	26Tone	RU0	12.02	≤30.00	PASS
11ax20MIMO	Ant3	2412	52Tone	RU37	17.59	≤30.00	PASS
11ax20MIMO	Ant3	2412	106Tone	RU53	21.26	≤30.00	PASS
11ax20MIMO	Ant4	2412	26Tone	RU0	14.05	≤30.00	PASS
11ax20MIMO	Ant4	2412	52Tone	RU37	18.59	≤30.00	PASS
11ax20MIMO	Ant4	2412	106Tone	RU53	21.22	≤30.00	PASS
11ax20MIMO	total	2412	26Tone	RU0	18.96	≤30.00	PASS
11ax20MIMO	total	2412	52Tone	RU37	23.89	≤30.00	PASS
11ax20MIMO	total	2412	106Tone	RU53	27.27	≤30.00	PASS
11ax20MIMO	Ant1	2437	26Tone	RU4	13.03	≤30.00	PASS
11ax20MIMO	Ant1	2437	52Tone	RU38	17.67	≤30.00	PASS
11ax20MIMO	Ant1	2437	106Tone	RU53	19.99	≤30.00	PASS
11ax20MIMO	Ant2	2437	26Tone	RU4	12.92	≤30.00	PASS
11ax20MIMO	Ant2	2437	52Tone	RU38	17.47	≤30.00	PASS
11ax20MIMO	Ant2	2437	106Tone	RU53	19.93	≤30.00	PASS
11ax20MIMO	Ant3	2437	26Tone	RU4	12.99	≤30.00	PASS
11ax20MIMO	Ant3	2437	52Tone	RU38	17.48	≤30.00	PASS
11ax20MIMO	Ant3	2437	106Tone	RU53	19.92	≤30.00	PASS
11ax20MIMO	Ant4	2437	26Tone	RU4	11.27	≤30.00	PASS
11ax20MIMO	Ant4	2437	52Tone	RU38	15.54	≤30.00	PASS
11ax20MIMO	Ant4	2437	106Tone	RU53	19.40	≤30.00	PASS
11ax20MIMO	total	2437	26Tone	RU4	18.63	≤30.00	PASS
11ax20MIMO	total	2437	52Tone	RU38	23.14	≤30.00	PASS
11ax20MIMO	total	2437	106Tone	RU53	25.84	≤30.00	PASS
11ax20MIMO	Ant1	2462	26Tone	RU8	13.49	≤30.00	PASS
11ax20MIMO	Ant1	2462	52Tone	RU40	17.18	≤30.00	PASS
11ax20MIMO	Ant1	2462	106Tone	RU54	20.60	≤30.00	PASS
11ax20MIMO	Ant2	2462	26Tone	RU8	13.38	≤30.00	PASS
11ax20MIMO	Ant2	2462	52Tone	RU40	17.10	≤30.00	PASS
11ax20MIMO	Ant2	2462	106Tone	RU54	20.51	≤30.00	PASS
11ax20MIMO	Ant3	2462	26Tone	RU8	13.45	≤30.00	PASS
11ax20MIMO	Ant3	2462	52Tone	RU40	16.91	≤30.00	PASS
11ax20MIMO	Ant3	2462	106Tone	RU54	20.52	≤30.00	PASS
11ax20MIMO	Ant4	2462	26Tone	RU8	12.69	≤30.00	PASS
11ax20MIMO	Ant4	2462	52Tone	RU40	17.03	≤30.00	PASS
11ax20MIMO	Ant4	2462	106Tone	RU54	20.00	≤30.00	PASS
11ax20MIMO	total	2462	26Tone	RU8	19.29	≤30.00	PASS
11ax20MIMO	total	2462	52Tone	RU40	23.08	≤30.00	PASS
11ax20MIMO	total	2462	106Tone	RU54	26.43	≤30.00	PASS
11ax40MIMO	Ant1	2422	242Tone	RU61	17.71	≤30.00	PASS
11ax40MIMO	Ant2	2422	242Tone	RU61	17.73	≤30.00	PASS
11ax40MIMO	Ant3	2422	242Tone	RU61	17.59	≤30.00	PASS
11ax40MIMO	Ant4	2422	242Tone	RU61	21.19	≤30.00	PASS
11ax40MIMO	total	2422	242Tone	RU61	24.87	≤30.00	PASS



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11ax40MIMO	Ant1	2437	242Tone	RU61	17.00	≤30.00	PASS
11ax40MIMO	Ant2	2437	242Tone	RU61	17.07	≤30.00	PASS
11ax40MIMO	Ant3	2437	242Tone	RU61	16.93	≤30.00	PASS
11ax40MIMO	Ant4	2437	242Tone	RU61	15.02	≤30.00	PASS
11ax40MIMO	total	2437	242Tone	RU61	22.60	≤30.00	PASS
11ax40MIMO	Ant1	2452	242Tone	RU62	17.71	≤30.00	PASS
11ax40MIMO	Ant2	2452	242Tone	RU62	17.67	≤30.00	PASS
11ax40MIMO	Ant3	2452	242Tone	RU62	17.17	≤30.00	PASS
11ax40MIMO	Ant4	2452	242Tone	RU62	17.11	≤30.00	PASS
11ax40MIMO	total	2452	242Tone	RU62	23.44	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant2	2412	-10.43	≤8.00	PASS
11b	Ant2	2437	-11.75	≤8.00	PASS
11b	Ant2	2462	-9.19	≤8.00	PASS
11g	Ant2	2412	-10.49	≤8.00	PASS
11g	Ant2	2437	-12.51	≤8.00	PASS
11g	Ant2	2462	-11.01	≤8.00	PASS
11n20SISO	Ant2	2412	-9.80	≤8.00	PASS
11n20SISO	Ant2	2437	-12.06	≤8.00	PASS
11n20SISO	Ant2	2462	-9.10	≤8.00	PASS
11n40SISO	Ant2	2422	-12.73	≤8.00	PASS
11n40SISO	Ant2	2437	-13.92	≤8.00	PASS
11n40SISO	Ant2	2452	-13.87	≤8.00	PASS
11ax20MIMO	Ant1	2412	-11.01	≤8.00	PASS
11ax20MIMO	Ant2	2412	-11.41	≤8.00	PASS
11ax20MIMO	Ant3	2412	-11.89	≤8.00	PASS
11ax20MIMO	Ant4	2412	-9.51	≤8.00	PASS
11ax20MIMO	total	2412	-4.84	≤3.85	PASS
11ax20MIMO	Ant1	2437	-12.57	≤8.00	PASS
11ax20MIMO	Ant2	2437	-14.24	≤8.00	PASS
11ax20MIMO	Ant3	2437	-15.29	≤8.00	PASS
11ax20MIMO	Ant4	2437	-15.46	≤8.00	PASS
11ax20MIMO	total	2437	-8.21	≤3.85	PASS
11ax20MIMO	Ant1	2462	-13.23	≤8.00	PASS
11ax20MIMO	Ant2	2462	-12.41	≤8.00	PASS
11ax20MIMO	Ant3	2462	-11.94	≤8.00	PASS
11ax20MIMO	Ant4	2462	-9.51	≤8.00	PASS
11ax20MIMO	total	2462	-5.52	≤3.85	PASS
11ax40MIMO	Ant1	2422	-14.13	≤8.00	PASS
11ax40MIMO	Ant2	2422	-16.20	≤8.00	PASS
11ax40MIMO	Ant3	2422	-13.54	≤8.00	PASS
11ax40MIMO	Ant4	2422	-15.72	≤8.00	PASS
11ax40MIMO	total	2422	-8.74	≤3.85	PASS
11ax40MIMO	Ant1	2437	-17.69	≤8.00	PASS
11ax40MIMO	Ant2	2437	-16.96	≤8.00	PASS
11ax40MIMO	Ant3	2437	-16.75	≤8.00	PASS
11ax40MIMO	Ant4	2437	-16.51	≤8.00	PASS
11ax40MIMO	total	2437	-10.94	≤3.85	PASS
11ax40MIMO	Ant1	2452	-14.36	≤8.00	PASS
11ax40MIMO	Ant2	2452	-14.54	≤8.00	PASS
11ax40MIMO	Ant3	2452	-14.30	≤8.00	PASS
11ax40MIMO	Ant4	2452	-15.31	≤8.00	PASS
11ax40MIMO	total	2452	-8.59	≤3.85	PASS



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Test Result for AX Part RU

	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11ax20MIMO	Ant1	2412	26Tone	RU0	-13.14	≤8.00	PASS
11ax20MIMO	Ant1	2412	52Tone	RU37	-12.68	≤8.00	PASS
11ax20MIMO	Ant1	2412	106Tone	RU53	-10.38	≤8.00	PASS
11ax20MIMO	Ant2	2412	26Tone	RU0	-11.81	≤8.00	PASS
11ax20MIMO	Ant2	2412	52Tone	RU37	-11.62	≤8.00	PASS
11ax20MIMO	Ant2	2412	106Tone	RU53	-10.91	≤8.00	PASS
11ax20MIMO	Ant3	2412	26Tone	RU0	-12.59	≤8.00	PASS
11ax20MIMO	Ant3	2412	52Tone	RU37	-10.12	≤8.00	PASS
11ax20MIMO	Ant3	2412	106Tone	RU53	-11.53	≤8.00	PASS
11ax20MIMO	Ant4	2412	26Tone	RU0	-12.53	≤8.00	PASS
11ax20MIMO	Ant4	2412	52Tone	RU37	-11.27	≤8.00	PASS
11ax20MIMO	Ant4	2412	106Tone	RU53	-11.39	≤8.00	PASS
11ax20MIMO	total	2412	26Tone	RU0	-6.47	≤3.85	PASS
11ax20MIMO	total	2412	52Tone	RU37	-5.31	≤3.85	PASS
11ax20MIMO	total	2412	106Tone	RU53	-5.01	≤3.85	PASS
11ax20MIMO	Ant1	2437	26Tone	RU4	-14.30	≤8.00	PASS
11ax20MIMO	Ant1	2437	52Tone	RU38	-14.66	≤8.00	PASS
11ax20MIMO	Ant1	2437	106Tone	RU53	-14.61	≤8.00	PASS
11ax20MIMO	Ant2	2437	26Tone	RU4	-14.76	≤8.00	PASS
11ax20MIMO	Ant2	2437	52Tone	RU38	-15.37	≤8.00	PASS
11ax20MIMO	Ant2	2437	106Tone	RU53	-14.30	≤8.00	PASS
11ax20MIMO	Ant3	2437	26Tone	RU4	-16.34	≤8.00	PASS
11ax20MIMO	Ant3	2437	52Tone	RU38	-14.94	≤8.00	PASS
11ax20MIMO	Ant3	2437	106Tone	RU53	-15.00	≤8.00	PASS
11ax20MIMO	Ant4	2437	26Tone	RU4	-16.17	≤8.00	PASS
11ax20MIMO	Ant4	2437	52Tone	RU38	-15.09	≤8.00	PASS
11ax20MIMO	Ant4	2437	106Tone	RU53	-15.00	≤8.00	PASS
11ax20MIMO	total	2437	26Tone	RU4	-9.28	≤3.85	PASS
11ax20MIMO	total	2437	52Tone	RU38	-8.99	≤3.85	PASS
11ax20MIMO	total	2437	106Tone	RU53	-8.70	≤3.85	PASS
11ax20MIMO	Ant1	2462	26Tone	RU8	-10.00	≤8.00	PASS
11ax20MIMO	Ant1	2462	52Tone	RU40	-12.01	≤8.00	PASS
11ax20MIMO	Ant1	2462	106Tone	RU54	-10.52	≤8.00	PASS
11ax20MIMO	Ant2	2462	26Tone	RU8	-12.09	≤8.00	PASS
11ax20MIMO	Ant2	2462	52Tone	RU40	-12.77	≤8.00	PASS
11ax20MIMO	Ant2	2462	106Tone	RU54	-11.52	≤8.00	PASS
11ax20MIMO	Ant3	2462	26Tone	RU8	-12.36	≤8.00	PASS
11ax20MIMO	Ant3	2462	52Tone	RU40	-12.74	≤8.00	PASS
11ax20MIMO	Ant3	2462	106Tone	RU54	-12.05	≤8.00	PASS
11ax20MIMO	Ant4	2462	26Tone	RU8	-12.38	≤8.00	PASS
11ax20MIMO	Ant4	2462	52Tone	RU40	-11.74	≤8.00	PASS
11ax20MIMO	Ant4	2462	106Tone	RU54	-12.66	≤8.00	PASS
11ax20MIMO	total	2462	26Tone	RU8	-5.56	≤3.85	PASS
11ax20MIMO	total	2462	52Tone	RU40	-6.27	≤3.85	PASS
11ax20MIMO	total	2462	106Tone	RU54	-5.59	≤3.85	PASS
11ax40MIMO	Ant1	2422	242Tone	RU61	-17.17	≤8.00	PASS
11ax40MIMO	Ant2	2422	242Tone	RU61	-17.38	≤8.00	PASS
11ax40MIMO	Ant3	2422	242Tone	RU61	-12.58	≤8.00	PASS
11ax40MIMO	Ant4	2422	242Tone	RU61	-13.99	≤8.00	PASS
11ax40MIMO	total	2422	242Tone	RU61	-8.78	≤3.85	PASS



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11ax40MIMO	Ant1	2437	242Tone	RU61	-18.35	≤8.00	PASS
11ax40MIMO	Ant2	2437	242Tone	RU61	-17.37	≤8.00	PASS
11ax40MIMO	Ant3	2437	242Tone	RU61	-17.41	≤8.00	PASS
11ax40MIMO	Ant4	2437	242Tone	RU61	-17.43	≤8.00	PASS
11ax40MIMO	total	2437	242Tone	RU61	-11.60	≤3.85	PASS
11ax40MIMO	Ant1	2452	242Tone	RU62	-17.34	≤8.00	PASS
11ax40MIMO	Ant2	2452	242Tone	RU62	-17.48	≤8.00	PASS
11ax40MIMO	Ant3	2452	242Tone	RU62	-17.60	≤8.00	PASS
11ax40MIMO	Ant4	2452	242Tone	RU62	-18.57	≤8.00	PASS
11ax40MIMO	total	2452	242Tone	RU62	-11.70	≤3.85	PASS



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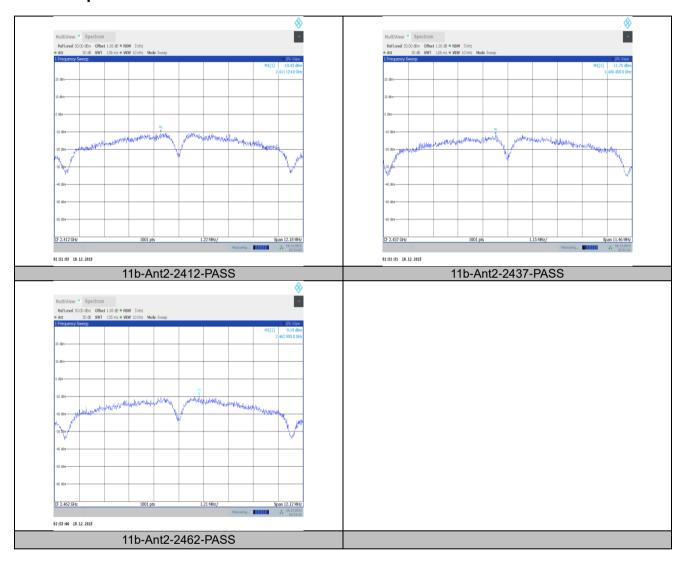


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Test Graphs





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