

Report No.: SEWM2308000314RG06

Rev.: 01

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TEST REPORT

Application No.: SEWM2308000314RG

Applicant: Shenzhen Tinno Mobile Technology Corp.

Address of Applicant: 27-001, South Side of Tianlong Mobile Headquarters Building,

Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen,

PRC

Manufacturer: Shenzhen Tinno Mobile Technology Corp.

Address of Manufacturer: 27-001, South Side of Tianlong Mobile Headquarters Building,

Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen,

PRC

EUT Description:Smart PhoneModel No.:Celero3 5GFCC ID:XD6U653DS

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: 2023/08/19

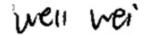
Date of Test: 2023/08/22 to 2023/10/12

Date of Issue: 2023/10/13

Test Result : PASS *

* 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		2023/10/13		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Stone Gu) / Reviewer



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Test Summary 2

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement		15.203/15.407(a)		Clause 4.1	PASS
26dB	Band I	15.407(a)(1)			For
Emission	Band II-A	15.407(a)(2)	No limit.	Clause 4.5	Report
Bandwidth	Band II-C	15.407(a)(2)			Purpose
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99%	Band I			Clause	For
Occupied	Band II-A	KDB 789033	No limit.		Report
Bandwidth	Band II-C	D02§ D	NO IIIIIt.	4.7	Purpose
Dandwidth	Band III				i dipose
1	Band I				For
Duty Cycle	Band II-A		No limit.	Clause	Report
Duty Cycle	Band II-C		NO IIIIIL.	4.3	Purpose
	Band III				Fulpose
Maximum	Band I	15.407(a)(iv)	< 250mW		
Conducted	Band II-A	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause</td><td rowspan="3">PASS</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause	PASS
Output Power	Band II-C	. , . ,	0(7)	4.4	
Output i owei	Band III	15.407(a)(3)	< 1W		
Maximum	Band I	15.407(a)(iv)	<11dBm/MHz		
Power Band II-A Spectral Band II-C		15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS
Density	Band III	15.407(a)(3)	<30dBm/500KHz		
	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15- 5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
Radiated Spurious Emissions	Band II-A	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25- 5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 4.9	PASS
	Band II-C	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47- 5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK)		PASS



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			All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		
Restricted bands around fundamental frequency	Band II-A Band II-C Band III	15.407(b) 15.205/15.209		Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207		Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A

Note 1:

Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz



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3 General Information

3.1 Details of Client

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address of Applicant:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC

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:	Ives Cheng, King-p Li

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:	Smart Phone			
Model No.:	Celero3 5G			
Hardware Version:	V1.0			
Software Version:	N/A			
Power Supply:	Lithium Bat	tery (3.85V)		
IN ACT	RF Conduc	ted	86028	4060002432
IMEI:	RSE & AC	power line	860284060010906	
	802.11a:	20 MHz chann	el banc	width
	802.11n:	20 MHz / 40 M	20 MHz / 40 MHz channel bandwidth	
WLAN Mode Supported:	802.11ac:	20 MHz / 40 M	Hz / 80	MHz channel bandwidth
	802.11ax:	20 MHz / 40 M	Hz / 80	MHz channel bandwidth
Operation Frequency:	5250MHz to 5470MHz to	to 5250MHz to 5350MHz to 5725MHz to 5850MHz		
	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)		
	20MHz:	802.11a/n(HT2	20)/ac(\	/HT20)/ax(HE20)
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)		
	80MHz:	802.11ac(VHT80)/ax(HE80)		
Antenna Type:	Fixed Interr	nal Antenna		
Antenna Gain:	5150MHz to 5250MHz: -1.2dBi (Ant7); -6.1dBi (Ant9); 5250MHz to 5350MHz: -1.2dBi (Ant7); -6.1dBi (Ant9); 5470MHz to 5725MHz: -1.2dBi (Ant7); -6.1dBi (Ant9); 5725MHz to 5850MHz: -1.2dBi (Ant7); -6.1dBi (Ant9);			
	Note: The antenn manufactur	ntenna gain are derived from the gain information report provided by the acturer.		
SISO 802.11a				
Smart System:	⊠ MIMO	802.11n/ac/a		
	Diversity	• 1		
TPC Function:		⊠Not Support		
DFS Function:	□Master			
	☐Slave wit	h radar detection	n	⊠Slave without radar detection



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RF Cable: 1.5dB

Remark:

1. 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.

802.11ax support full RU tone and partial RU tone, both full RU and partial RU are tested for conducted power/PSD/Duty cycle, all the other test case were performed with full RU with its maximum power/PSD.

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:					
Mode	Channel	Frequency(MHz)			
	The Lowest channel	5180			
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5200			
	The Highest channel	5240			
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5190			
IEEE 602.1111/ac/ax 401/11/2	The Highest channel	5230			
IEEE 802.11ac/ax 80MHz	The Middle channel	5210			

For UNII Band II-A:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5260		
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5280		
	The Highest channel	5320		
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5270		
IEEE 802.11n/ac/ax 40MH2	The Highest channel	5310		
IEEE 802.11ac/ax 80MHz	The Middle channel	5290		



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For UNII Band II-C:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5500		
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5580		
	The Highest channel	5700		
	The Lowest channel	5510		
IEEE 802.11n/ac/ax 40MHz	The Middle channel	5550		
	The Highest channel	5670		
IEEE 802.11ac/ax 80MHz	The Middle channel	5530		

For UNII Band III:					
Mode	Channel	Frequency(MHz)			
	The Lowest channel	5745			
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5785			
	The Highest channel	5825			
IEEE 000 44m/cc/cy 40MI In	The Lowest channel	5755			
IEEE 802.11n/ac/ax 40MHz	The Highest channel	5795			
IEEE 802.11ac/ax 80MHz	The Middle channel	5775			

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
	120 ^[1]	5600	124 ^[1]	5620
TDWR Channel	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610

Note:

- 1. The above Frequency and Channel were 802.11a, 802.11n HT20, 802.11ac VHT20 and 802.11ax(HE20).
- 2. The above Frequency and Channel were 802.11n HT40, 802.11ac VHT40 and 802.11ax(HE40).
- 3. The above Frequency and Channel were 802.11ac VHT80 and 802.11ax(HE80).



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected	101.0 kPa Selected Values During Tests				
Relative Humidity	44-46 % F	RH Ambient				
Value	Temperature(°C)	Voltage(V)				
NTNV	22~23	3.85				

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Test Equipment	Manufacturer	Model No.	Inventory No.
Router	TP-LINK	Archer BE800 (FCC ID: 2AXJ4BE800)	SUWI-03-14-03

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
802.11a	6 Mbps	12 Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 20)	/	MCS0 (13 Mbps)
802.11ac (VHT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 80)	/	MCS0 (58.5 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15 Section 15.203

The antenna is Fixed Internal Antenna and no consideration of replacement.

The best case gain of the antenna is

5150MHz to 5250MHz: -1.2dBi (Ant7); -6.1dBi (Ant9);*

5250MHz to 5350MHz: -1.2dBi (Ant7); -6.1dBi (Ant9);*

5470MHz to 5725MHz: -1.2dBi (Ant7); -6.1dBi (Ant9);*

5725MHz to 5850MHz: -1.2dBi (Ant7); -6.1dBi (Ant9);*

*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 $N_{ANT} \le 4$;

For power, the 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.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

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

The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain7 (dBi)	ANT Gain9 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	-1.2	-6.1	-1.2	-0.30	0	0
5250MHz to 5350MHz	-1.2	-6.1	-1.2	-0.30	0	0
5470MHz to 5725MHz	-1.2	-6.1	-1.2	-0.30	0	0
5725MHz to 5850MHz	-1.2	-6.1	-1.2	-0.30	0	0

5150MHz to 5250MHz:

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

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

5250MHz to 5350MHz:

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

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5470MHz to 5725MHz:

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

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

5725MHz to 5850MHz:

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

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



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 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:	Frequency range (MHz)	Limit (d	BuV)		
	rrequericy 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:	room. 2) The EUT was connected impedance. The power connected to a second plane in the same was multiple socket outlet single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizor. 4) The test was perform of the EUT shall be overtical ground reference plane. The unit under test and be mounted on top of the between the closest the EUT and associated. 5) In order to find the mequipment and all of	cted to AC power source throusion Network) which provides are cables of all other units of and LISN 2, which was bonded by as the LISN 1 for the unit by a strip was used to connect must the rating of the LISN was not as placed upon a non-metallic me. And for floor-standing arrantal ground reference plane, and the avertical ground reference plane was bonded to the LISN 1 was placed 0.8 m frounded to a ground reference plane. The points of the LISN 1 and the Exted equipment was at least 0 aximum emission, the relative the interface cables must be an conducted measurement.	ugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a of exceeded. Table 0.8m above the angement, the EUT was been captained by the end of the control of the plane for LISNs is distance was EUT. All other units of the positions of		



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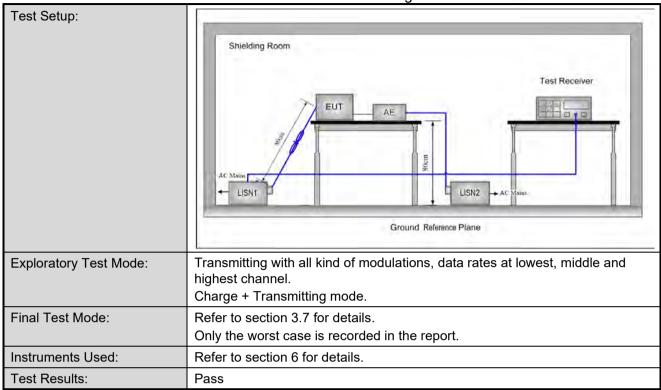
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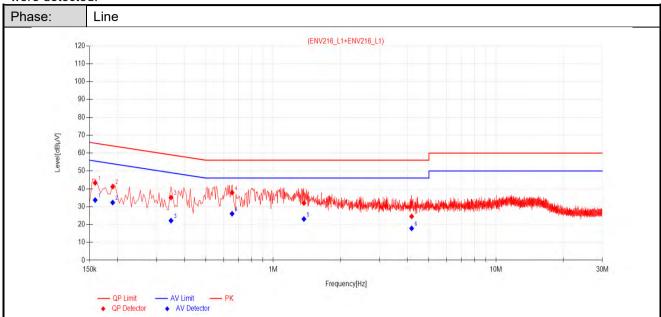
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Measurement Data

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	0.1590	11.82	31.49	43.31	65.52	22.21	21.88	33.70	55.52	21.82	PASS
2	0.1905	11.67	29.53	41.20	64.01	22.81	20.63	32.30	54.01	21.71	PASS
3	0.3480	11.62	23.48	35.10	59.01	23.91	10.56	22.18	49.01	26.83	PASS
4	0.6540	11.66	26.19	37.85	56.00	18.15	14.38	26.04	46.00	19.96	PASS
5	1.3740	11.72	20.28	32.00	56.00	24.00	11.36	23.08	46.00	22.92	PASS
6	4.1820	11.77	12.78	24.55	56.00	31.45	6.08	17.85	46.00	28.15	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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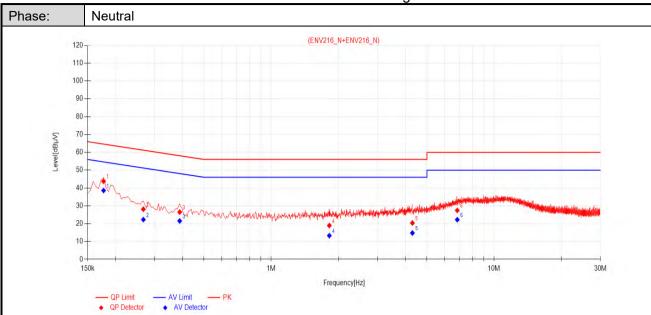
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Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	11.73	32.04	43.77	64.63	20.86	26.86	38.59	54.63	16.04	PASS
2	0.2670	11.64	16.45	28.09	61.21	33.12	10.64	22.28	51.21	28.93	PASS
3	0.3885	11.61	14.87	26.48	58.10	31.62	9.92	21.53	48.10	26.57	PASS
4	1.8240	11.73	7.23	18.96	56.00	37.04	1.56	13.29	46.00	32.71	PASS
5	4.3035	11.78	8.59	20.37	56.00	35.63	2.99	14.77	46.00	31.23	PASS
6	6.8415	11.88	15.57	27.45	60.00	32.55	10.36	22.24	50.00	27.76	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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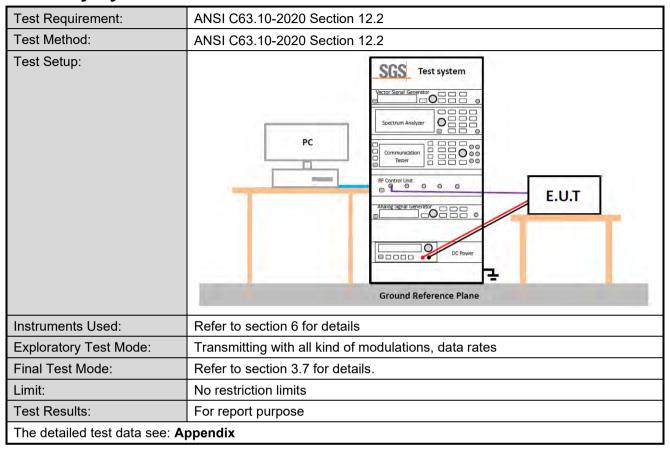


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4.3 Duty Cycle





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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)				
Test Method:	ANSI C63.10-2020 Section 12.4.3.2				
Test Setup:	Power meter O O O O				
	* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.				
Test Instruments:	Refer to section 6 f	or details.			
Exploratory Test Mode:	Transmitting with a	Il kind of modulations, data rates			
Final Test Mode:	Refer to section 3.7	7 for details.			
Limit:	Frequency Band	Limit			
	5150-5250MHz	Not exceed 250mW(23.98dBm)			
	5250-5350MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB			
	5470-5725MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB			
	5725-5850MHz	Not exceed 1W(30dBm)			
	*Where B is the 26dB emission bandwidth in MHz				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C			
Test Method:	ANSI C63.10-2020 Section 12.5.2			
Test Setup:	SGS Test system Vector Signal Generator Spectrum Analyzer O O O O O O O O O O O O O O O O O O O			
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:	No restriction limits			
Test Results:	For Report Purpose			
The detailed test data see: A	ppendix			



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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)				
Test Method:	ANSI C63.10-2020 Section 12.5.1				
Test Setup:		to o E.U.T			
Test Instruments:	Refer to section 6 for details.				
Exploratory Test Mode:	Transmitting with all kind of modulati	ons, data rates			
Final Test Mode:	Refer to section 3.7 for details.				
Limit:	Frequency Band Limit				
	5725-5850MHz At lease 500kHz				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D		
Test Method:	ANSI C63.10-2020 Section 12.5.3		
Test Setup:	SGS Test system Vector Signal Generator Spectrum Analyzer O O O O O O O O O O O O O O O O O O O		
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:	No restriction limits		
Test Results:	For Report Purpose		
The detailed test data see: A	ppendix		



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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)
Test Method:	ANSI C63.10-2020 S KDB 789033 D02 v0	
Test Setup:	PC	SGS Test system Vactor Signal Generator Spectrum Analyzer Communication Fes Control Unit Commu
Instruments Used:	Refer to section 6 fo	r details.
Exploratory Test Mode:	Transmitting with all	kind of modulations, data rates
Final Test Mode:	Refer to section 3.7	for details.
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: A	ppendix	



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)
Test Method:	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

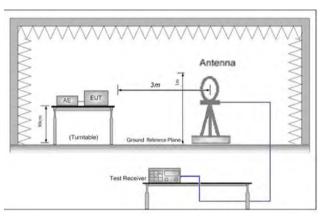
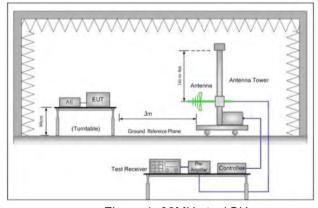


Figure 1. 9kHz to 30MHz



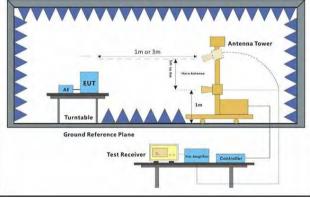


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz test, 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.
- For above 1GHz test, 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.



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	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. Test the EUT in the outermost channels.	
	 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 = 10Hz, when duty cycle is no less than 98 percent.	
	 VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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.	



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Test Results: Pass

The detailed test data see: Appendix



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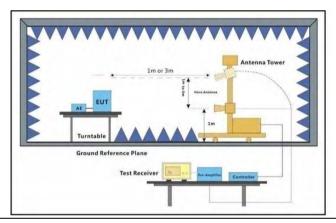
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)				
Test Method:	ANSI C63.10-2020 Section 12.7				
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Limit:	Frequency	Frequency Limit (dBuV/m) Remark			
	30MHz-88MHz	40.0	Quasi-peak		
	88MHz-216MHz 43.5 Quasi-pea				
	216MHz-960MHz 46.0 Quasi-peak				
	960MHz-1GHz 54.0 Quasi-peak				
	Ab 4011-	54.0	Average Value		
	Above 1GHz 74.0 Peak Value				

Test Setup:



Test Procedure:

- a. 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.
- 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 outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for



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	<u> </u>
	Transmitting mode,And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	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 = 10Hz, when duty cycle is no less than 98 percent.
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis 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.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode			
	Master	Client Without Radar Detection	Client With Radar Detection	
Non-Occupancy Period	Yes	Not required	Yes	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Availability Check Time	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master Device or Client	Client Without	
	with Radar Detection	Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	
Additional requirements for devices with	Mostor Dovigo or Client with	Client Without Dodor	

Additional requirements for devices with	Master Device or Client with	Client Without Radar	
multiple bandwidth modes	Radar Detection	Detection	
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required	
Performance Check			
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest	
Transmission Time	available	BW mode available for	
		the link	
All other tests	Any single BW mode	Not required	

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



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4.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm
requirement	

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



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4.11.3 RADAR TEST WAVEFORMS

Table 5 - Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ \frac{\left(\frac{1}{360}\right)}{\left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}}\right)} \right\} $	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
ggregate	(Radar Types 1-	4)		80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition	Pulse Repetition Frequency	Pulse Repetition
Frequency	(Pulses Per Second)	Interval
Number		(Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful	Minimum Percentage			
		Detections	of Successful			
			Detection			
1	35	29	82.9%			
2	30	18	60%			
3	30	27	90%			
4	50	44	88%			
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%						



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Table 6 - Long Pulse Radar Test Waveform

Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of
	(µsec)	(MHz)		per <i>Burst</i>		Successful	Trials
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Table 7 – Frequency Hopping Radar Test Waveform

		1 440	. ,	quency mop	bing itauai it	or marcionii	
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
					(msec)	Detection	
6	1	333	9	0.333	300	70%	30

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: Appendix



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

	<u> </u>				
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)			
0	Dadieted Emissies	± 4.8dB (30M -1GHz)			
8	Radiated Emission	± 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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6 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	2023/02/06	2024/02/05		
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	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05		
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN: 101716	2023/02/22	2024/02/21		

CE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
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						
Equipment	Equipment Manufacturer		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	SUWI-01-01-05	2023/02/07	2024/02/06	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	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	
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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Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant7	5180	26.84	5167.60	5194.44	
11a	Ant7	5220	28.20	5205.56	5233.76	
11a	Ant7	5240	28.88	5226.76	5255.64	
11a	Ant7	5260	25.52	5247.08	5272.60	
11a	Ant7	5300	25.40	5287.84	5313.24	
11a	Ant7	5320	27.44	5305.88	5333.32	
11a	Ant7	5500	27.80	5485.08	5512.88	
11a	Ant7	5580	27.84	5565.96	5593.80	
11a	Ant7	5700	25.80	5687.04	5712.84	
11a	Ant7	5745	27.24	5731.52	5758.76	
11a	Ant7	5785	23.60	5773.00	5796.60	
11a	Ant7	5825	27.44	5810.64	5838.08	
11n20MIMO	Ant7	5180	29.00	5166.24	5195.24	
11n20MIMO	Ant9	5180	28.16	5166.20	5194.36	
11n20MIMO	Ant7	5220	24.72	5207.72	5232.44	
11n20MIMO	Ant9	5220	24.80	5207.60	5232.40	
11n20MIMO	Ant7	5240	24.76	5228.40	5253.16	
11n20MIMO	Ant9	5240	25.16	5228.04	5253.20	
11n20MIMO	Ant7	5260	24.68	5247.80	5272.48	
11n20MIMO	Ant9	5260	25.72	5247.84	5273.56	
11n20MIMO	Ant7	5300	27.08	5286.60	5313.68	
11n20MIMO	Ant9	5300	25.92	5287.28	5313.20	
11n20MIMO	Ant7	5320	25.56	5308.24	5333.80	
11n20MIMO	Ant9	5320	25.52	5307.44	5332.96	For
11n20MIMO	Ant7	5500	26.84	5486.00	5512.84	Report
11n20MIMO	Ant9	5500	27.68	5486.80	5514.48	Purpose
11n20MIMO	Ant7	5580	25.60	5566.08	5591.68	
11n20MIMO	Ant9	5580	23.64	5568.16	5591.80	
11n20MIMO	Ant7	5700	24.60	5687.24	5711.84	
11n20MIMO	Ant9	5700	25.04	5687.52	5712.56	
11n20MIMO	Ant7	5745	27.72	5729.96	5757.68	
11n20MIMO	Ant9	5745	24.36	5732.88	5757.24	
11n20MIMO	Ant7	5785	23.44	5773.24	5796.68	
11n20MIMO	Ant9	5785	24.00	5772.88	5796.88	
11n20MIMO	Ant7	5825	24.32	5812.88	5837.20	
11n20MIMO	Ant9	5825	24.88	5813.08	5837.96	
11n40MIMO	Ant7	5190	45.20	5169.44	5214.64	
11n40MIMO	Ant9	5190	40.80	5169.76	5210.56	
11n40MIMO	Ant7	5230	40.64	5209.76	5250.40	
11n40MIMO	Ant9	5230	40.88	5209.52	5250.40	
11n40MIMO	Ant7	5270	41.04	5249.60	5290.64	
11n40MIMO	Ant9	5270	41.12	5249.60	5290.72	
11n40MIMO	Ant7	5310	41.12	5289.28	5330.40	
11n40MIMO	Ant9	5310	41.36	5289.20	5330.56	
11n40MIMO	Ant7	5510	40.56	5489.76	5530.32	
11n40MIMO	Ant9	5510	41.04	5489.44	5530.48	
11n40MIMO	Ant7	5550	40.72	5529.68	5570.40	
11n40MIMO	Ant9	5550	41.04	5529.52	5570.56	
11n40MIMO	Ant7	5670	40.56	5649.60	5690.16	



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			Page.	39 01 3) 3 4	
11n40MIMO	Ant9	5670	41.28	5649.20	5690.48	
11n40MIMO	Ant7	5755	43.28	5734.28	5777.56	
11n40MIMO	Ant9	5755	41.20	5734.68	5775.88	
11n40MIMO	Ant7	5795	47.12	5772.84	5819.96	
11n40MIMO	Ant9	5795	46.16	5769.80	5815.96	
11ac80MIMO	Ant7	5210	83.52	5166.80	5250.32	
11ac80MIMO	Ant9	5210	86.40	5164.08	5250.48	
11ac80MIMO	Ant7	5290	94.24	5250.00	5344.24	
11ac80MIMO	Ant9	5290	92.16	5246.00	5338.16	
11ac80MIMO	Ant7	5530	89.28	5482.16	5571.44	
11ac80MIMO	Ant9	5530	86.56	5483.76	5570.32	
11ac80MIMO	Ant7	5610	93.28	5558.00	5651.28	
11ac80MIMO	Ant9	5610	87.84	5566.00	5653.84	
11ac80MIMO	Ant7	5775	97.92	5725.56	5823.48	
11ac80MIMO	Ant9	5775	96.96	5730.04	5827.00	
11ax20MIMO	Ant7	5180	23.60	5168.36	5191.96	
11ax20MIMO	Ant9	5180	23.64	5168.28	5191.92	
11ax20MIMO	Ant7	5220	23.52	5208.04	5231.56	
11ax20MIMO	Ant9	5220	22.96	5208.36	5231.32	
11ax20MIMO	Ant7	5240	23.60	5228.28	5251.88	
11ax20MIMO	Ant9	5240	23.52	5228.00	5251.52	
11ax20MIMO	Ant7	5260	22.32	5248.76	5271.08	
11ax20MIMO	Ant9	5260	22.92	5248.60	5271.52	
11ax20MIMO	Ant7	5300	24.20	5288.00	5312.20	
11ax20MIMO	Ant9	5300	24.12	5288.04	5312.16	
11ax20MIMO	Ant7	5320	23.04	5308.60	5331.64	
11ax20MIMO	Ant9	5320	23.36	5308.32	5331.68	
11ax20MIMO	Ant7	5500	26.84	5486.56	5513.40	
11ax20MIMO	Ant9	5500	24.64	5487.64	5512.28	
11ax20MIMO	Ant7	5580	23.56	5568.20	5591.76	
11ax20MIMO	Ant9	5580	23.28	5568.28	5591.56	
11ax20MIMO	Ant7	5700	23.32	5687.96	5711.28	
11ax20MIMO	Ant9	5700	23.24	5688.60	5711.84	
11ax20MIMO	Ant7	5745	24.16	5733.48	5757.64	
11ax20MIMO	Ant9	5745	23.36	5733.28	5756.64	
11ax20MIMO	Ant7	5785	23.44	5773.28	5796.72	
11ax20MIMO	Ant9	5785	22.88	5773.52	5796.40	
11ax20MIMO	Ant7	5825	23.00	5813.28	5836.28	
11ax20MIMO	Ant9	5825	25.04	5812.12	5837.16	
11ax40MIMO	Ant7	5190	39.84	5170.08	5209.92	
11ax40MIMO	Ant9	5190	39.60	5170.24	5209.84	
11ax40MIMO	Ant7	5230	39.44	5210.24	5249.68	
11ax40MIMO	Ant9	5230	39.84	5210.08	5249.92	
11ax40MIMO	Ant7	5270	39.60	5250.16	5289.76	
11ax40MIMO	Ant9	5270	39.68	5250.24	5289.92	
11ax40MIMO	Ant7	5310	39.68	5290.08	5329.76	
11ax40MIMO	Ant9	5310	39.68	5290.16	5329.84	
11ax40MIMO	Ant7	5510	39.36	5490.24	5529.60	
11ax40MIMO	Ant9	5510	39.60	5490.24	5529.84	
11ax40MIMO	Ant7	5550	40.00	5530.00	5570.00	
11ax40MIMO	Ant9	5550	39.84	5530.00	5569.84	
11ax40MIMO	Ant7	5670	39.92	5650.00	5689.92	
11ax40MIMO	Ant9	5670	39.92	5649.92	5689.84	
11ax40MIMO	Ant7	5755	39.92	5735.16	5775.08	
11ax40MIMO	Ant9	5755	39.76	5735.16	5774.92	
11ax40MIMO	Ant7	5795	39.84	5775.08	5814.92	
11ax40MIMO	Ant9	5795	39.68	5775.16	5814.84	



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11ax80MIMO	Ant7	5210	81.12	5169.52	5250.64	
11ax80MIMO	Ant9	5210	80.96	5169.52	5250.48	
11ax80MIMO	Ant7	5290	89.44	5249.52	5338.96	
11ax80MIMO	Ant9	5290	81.12	5249.52	5330.64	
11ax80MIMO	Ant7	5530	91.52	5479.12	5570.64	
11ax80MIMO	Ant9	5530	81.12	5489.52	5570.64	
11ax80MIMO	Ant7	5610	81.12	5569.52	5650.64	
11ax80MIMO	Ant9	5610	81.12	5569.52	5650.64	
11ax80MIMO	Ant7	5775	83.84	5734.52	5818.36	
11ax80MIMO	Ant9	5775	90.72	5727.64	5818.36	

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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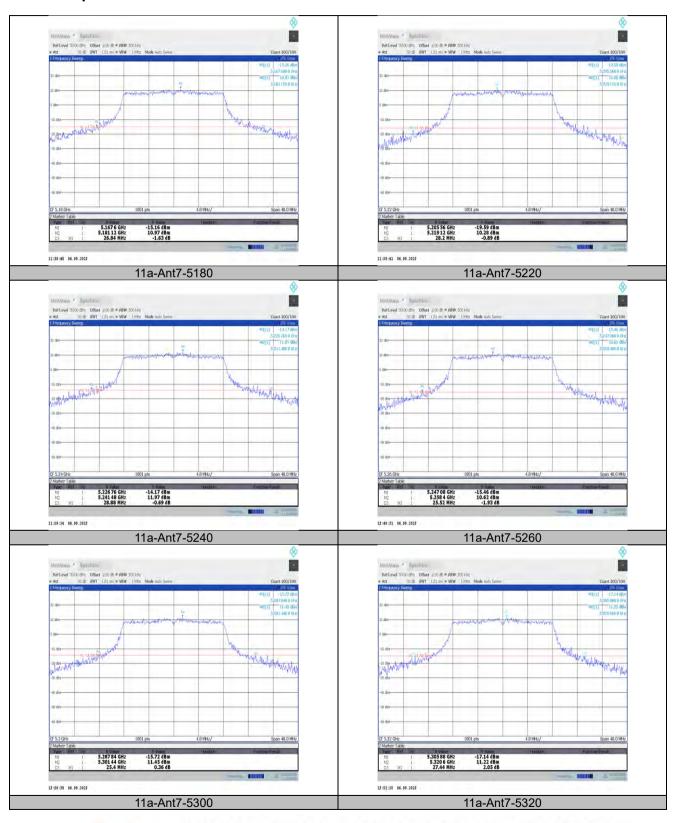


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Test Graphs





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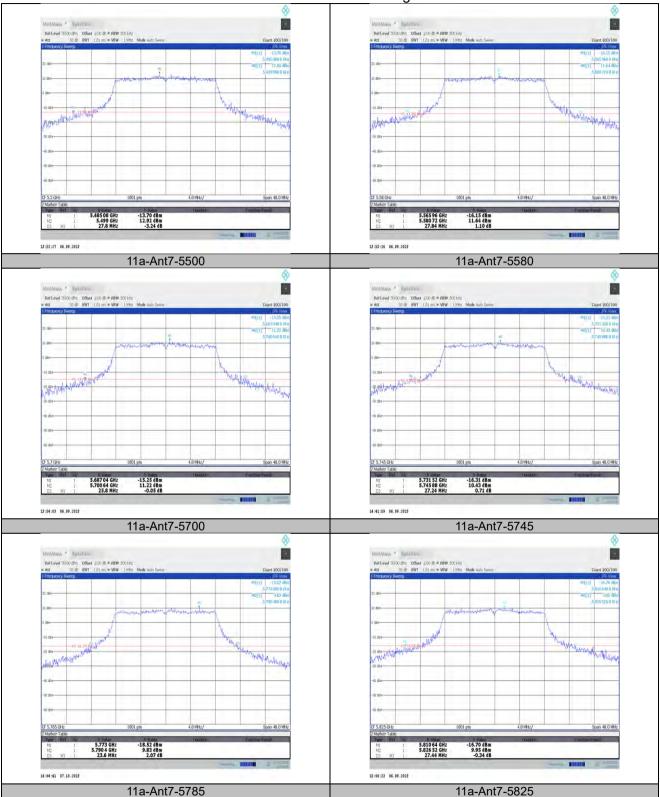
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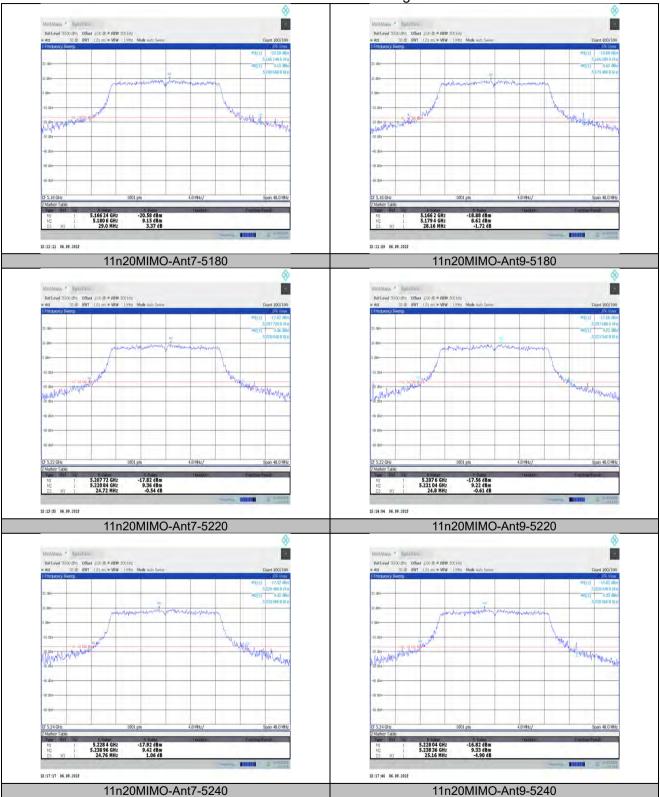
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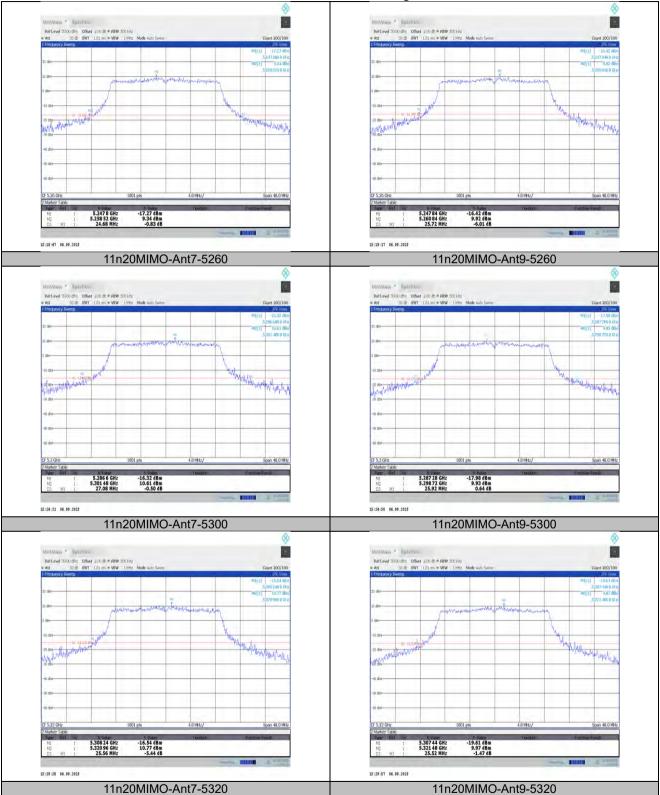
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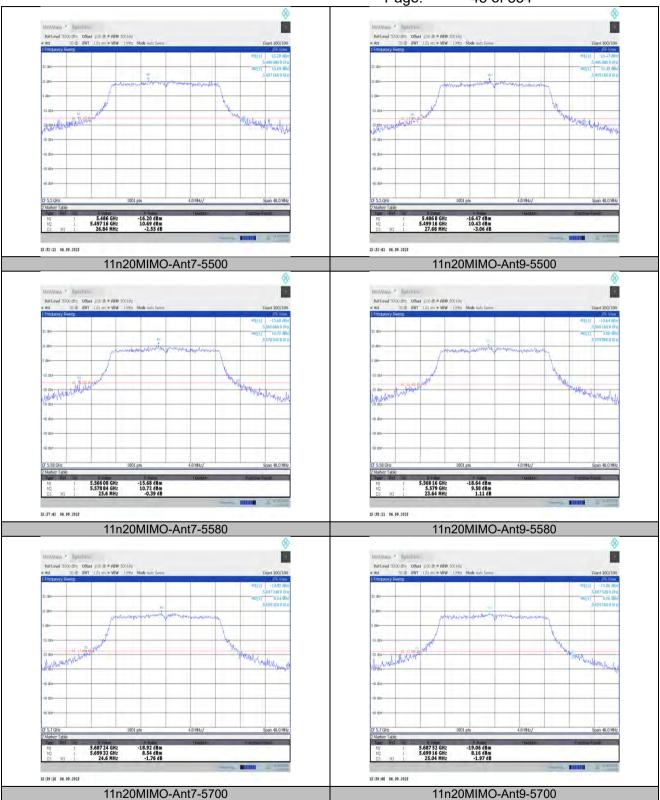
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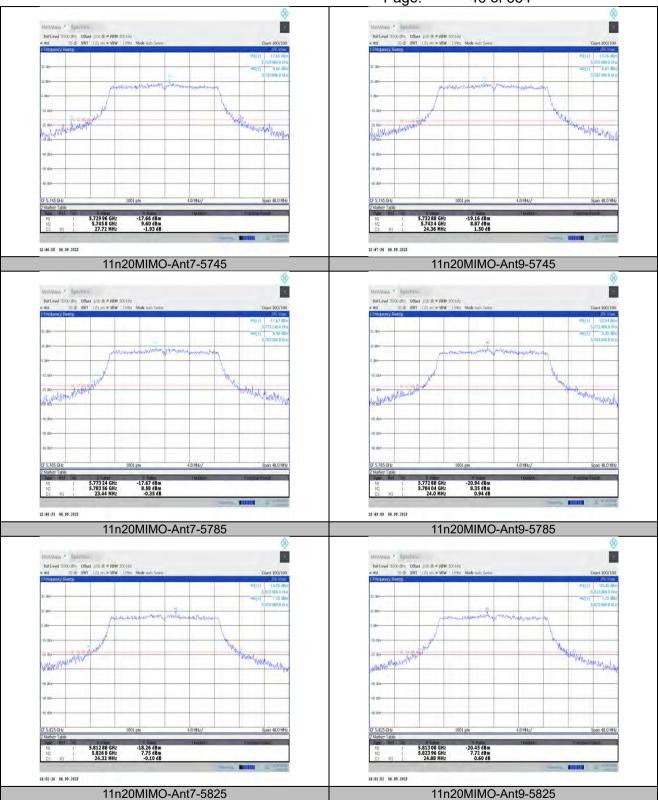
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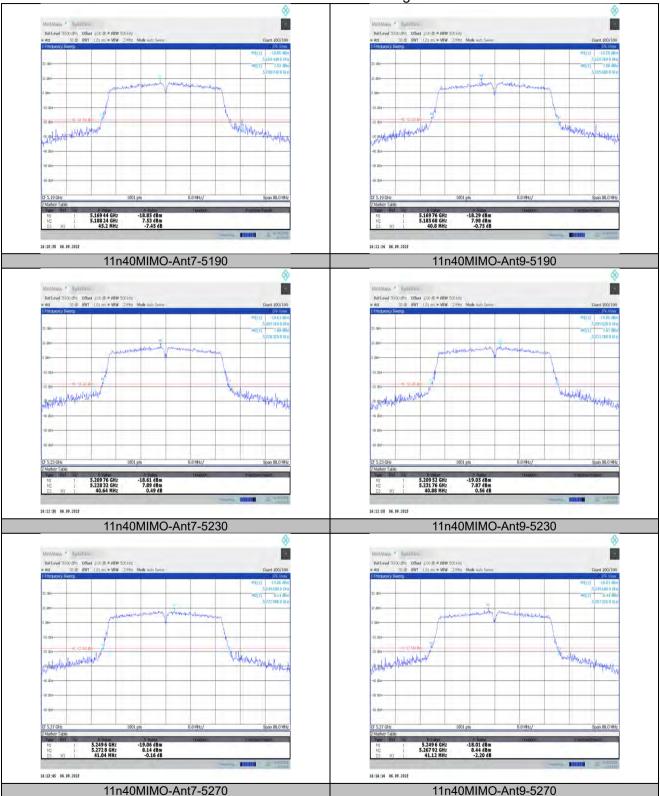
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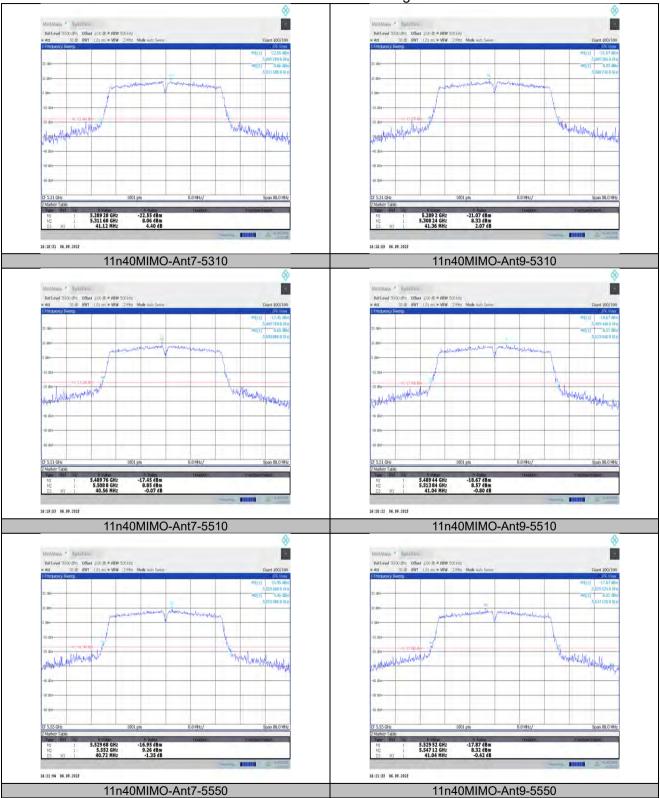
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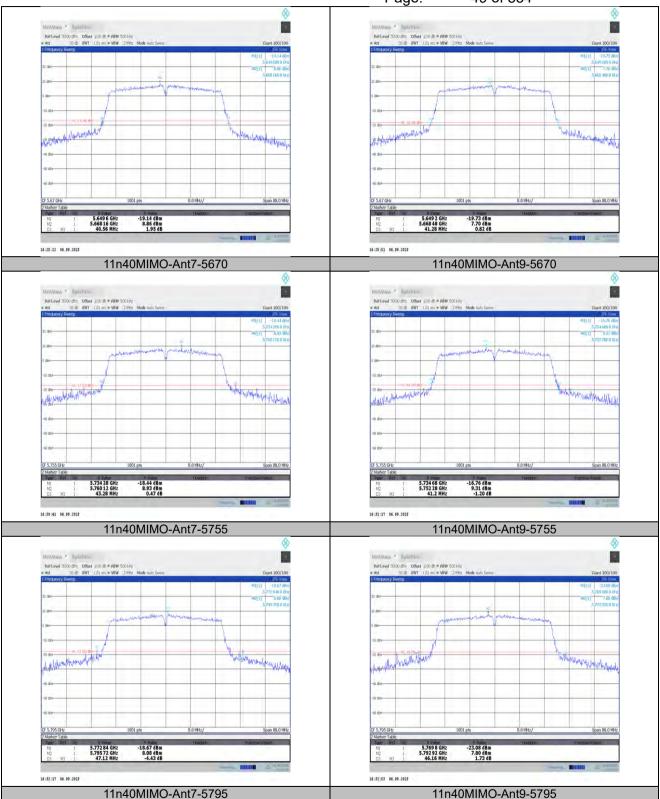
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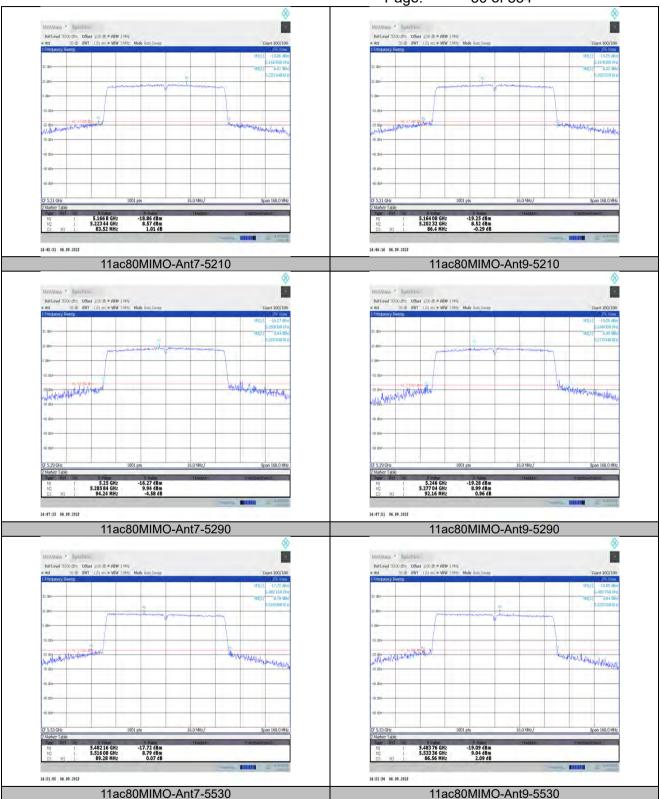
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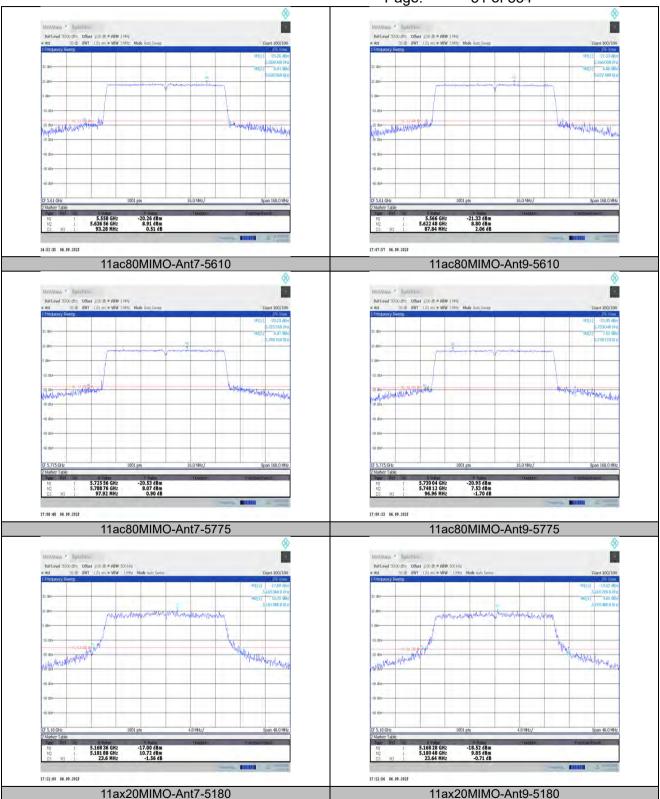
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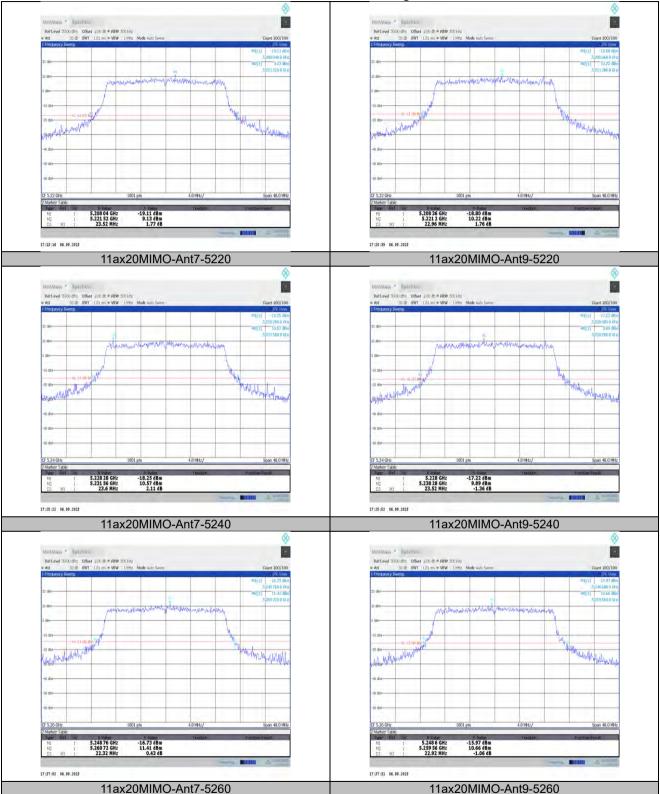
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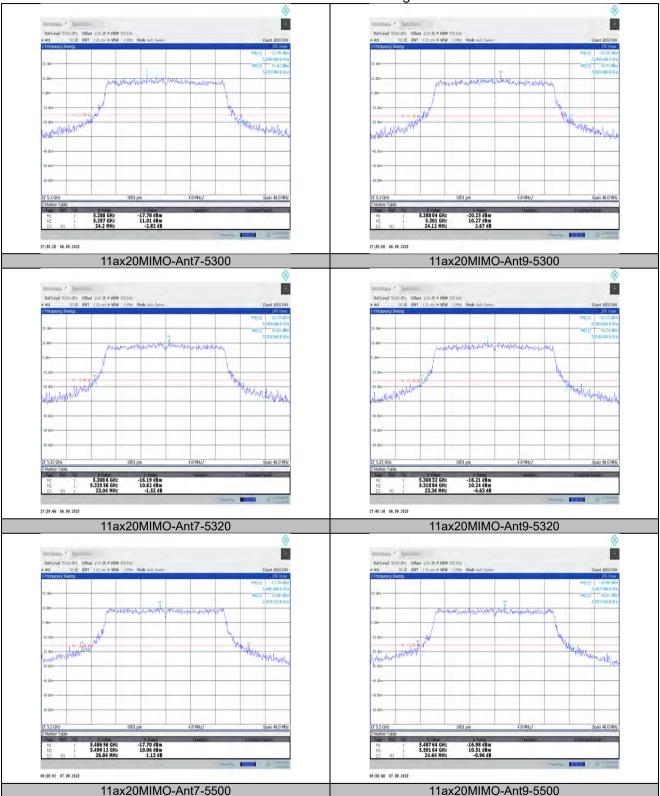
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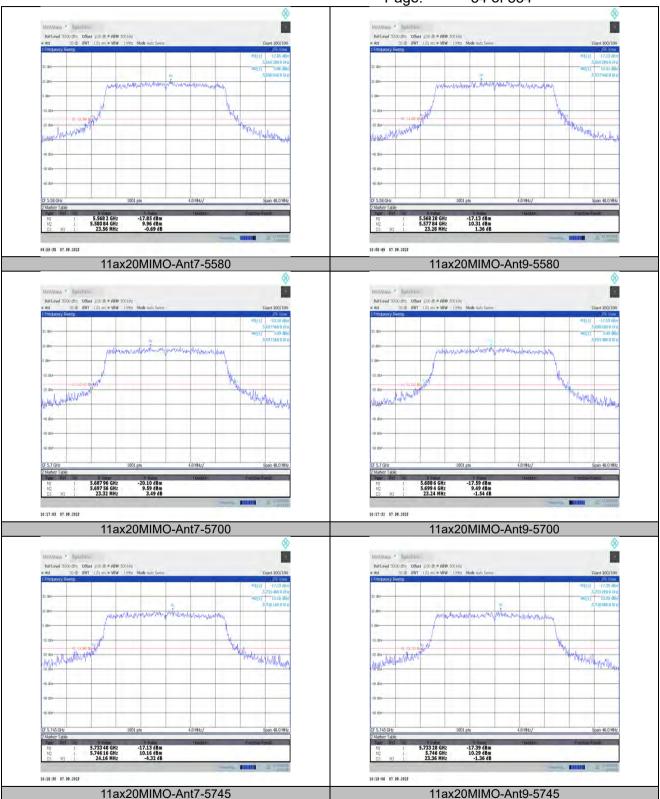
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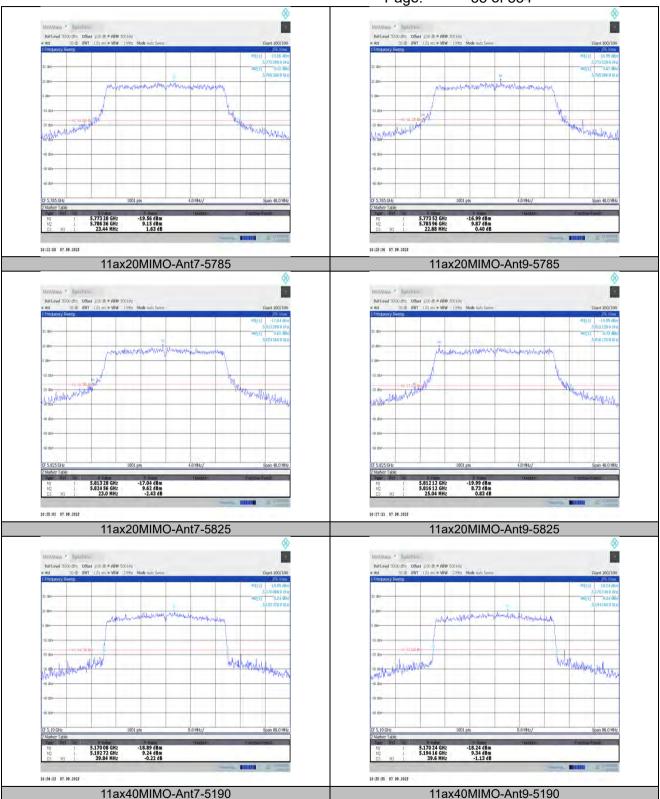
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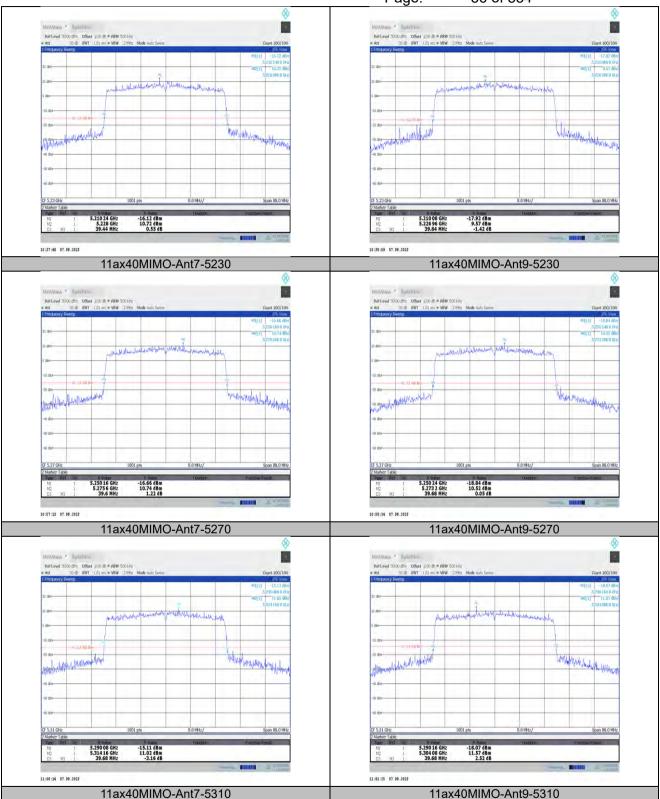
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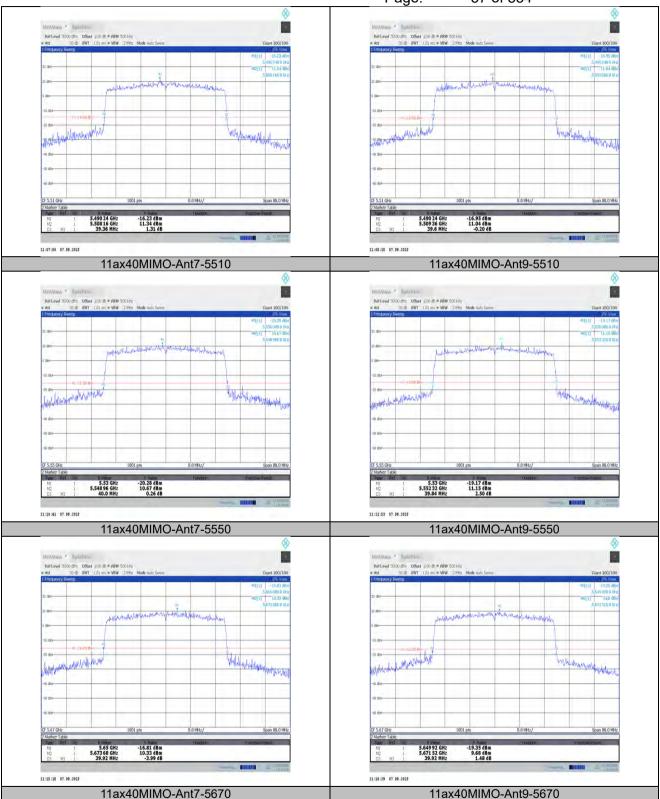
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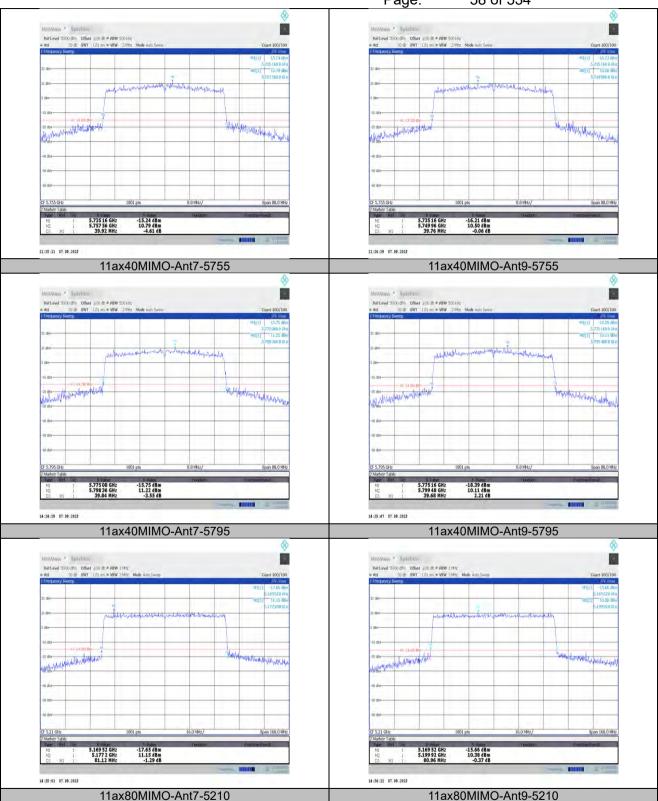
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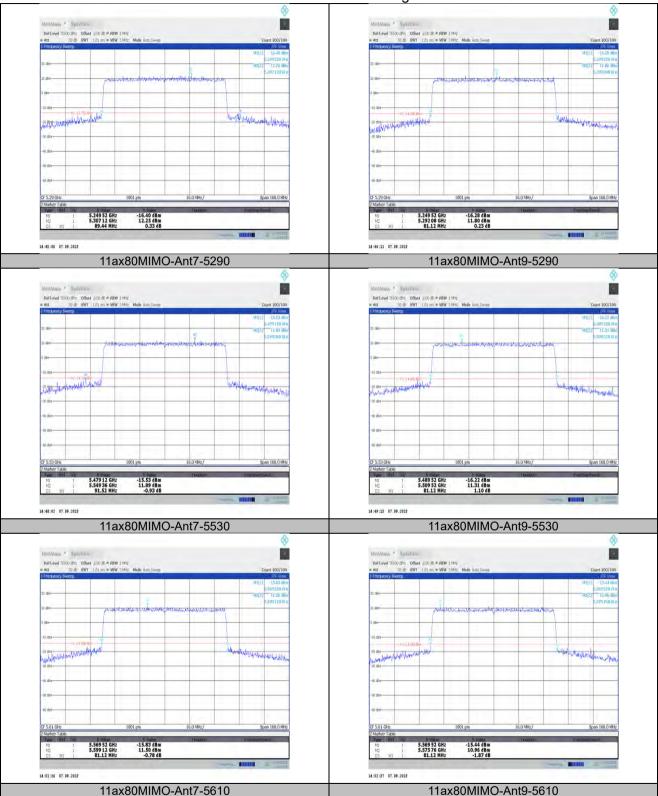
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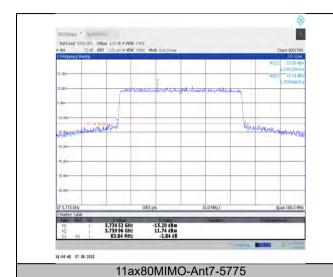
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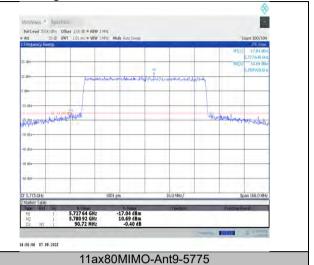


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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant7	5180	18.499	5170.8391	5189.3383	
11a	Ant7	5220	17.574	5211.1907	5228.7651	
11a	Ant7	5240	17.813	5231.0333	5248.8464	
11a	Ant7	5260	17.575	5251.1754	5268.7504	
11a	Ant7	5300	17.581	5291.2150	5308.7958	
11a	Ant7	5320	17.529	5311.2364	5328.7654	
11a	Ant7	5500	17.758	5491.1178	5508.8758	
11a	Ant7	5580	17.749	5571.0743	5588.8237	
11a	Ant7	5700	17.592	5691.1793	5708.7713	
11a	Ant7	5745	17.788	5736.1244	5753.9122	
11a	Ant7	5785	17.807	5776.0767	5793.8835	
11a	Ant7	5825	17.69	5816.1619	5833.8519	
11n20MIMO	Ant7	5180	18.784	5170.6214	5189.4053	
11n20MIMO	Ant9	5180	18.79	5170.6211	5189.4111	
11n20MIMO	Ant7	5220	18.586	5210.6896	5229.2760	
11n20MIMO	Ant9	5220	18.621	5210.7028	5229.3234	
11n20MIMO	Ant7	5240	18.541	5230.7252	5249.2662	
11n20MIMO	Ant9	5240	18.549	5230.7453	5249.2947	
11n20MIMO	Ant7	5260	18.591	5250.6638	5269.2544	
11n20MIMO	Ant9	5260	18.566	5250.7184	5269.2846	
11n20MIMO	Ant7	5300	18.685	5290.6404	5309.3259	
11n20MIMO	Ant9	5300	18.629	5290.6699	5309.2986	
11n20MIMO	Ant7	5320	18.556	5310.6812	5329.2376	
11n20MIMO	Ant9	5320	18.604	5310.6649	5329.2694	
11n20MIMO	Ant7	5500	18.719	5490.6233	5509.3424	F
11n20MIMO	Ant9	5500	18.704	5490.6491	5509.3536	For Report
11n20MIMO	Ant7	5580	18.616	5570.6702	5589.2865	Purpose
11n20MIMO	Ant9	5580	18.652	5570.6541	5589.3065	i uipose
11n20MIMO	Ant7	5700	18.567	5690.6682	5709.2350	
11n20MIMO	Ant9	5700	18.519	5690.7067	5709.2258	
11n20MIMO	Ant7	5745	18.636	5735.6681	5754.3045	
11n20MIMO	Ant9	5745	18.716	5735.6219	5754.3375	
11n20MIMO	Ant7	5785	18.606	5775.7151	5794.3212	
11n20MIMO	Ant9	5785	18.627	5775.7059	5794.3331	
11n20MIMO	Ant7	5825	18.596	5815.6971	5834.2934	
11n20MIMO	Ant9	5825	18.637	5815.6745	5834.3115	
11n40MIMO	Ant7	5190	36.347	5171.8342	5208.1814	
11n40MIMO	Ant9	5190	36.618	5171.7322	5208.3504	
11n40MIMO	Ant7	5230	36.505	5211.7643	5248.2693	
11n40MIMO	Ant9	5230	36.63	5211.6796	5248.3100	
11n40MIMO	Ant7	5270	36.543	5251.7506	5288.2937	
11n40MIMO	Ant9	5270	36.626	5251.6985	5288.3250	
11n40MIMO	Ant7	5310	36.643	5291.6452	5328.2881	
11n40MIMO	Ant9	5310	36.585	5291.7270	5328.3116	
11n40MIMO	Ant7	5510	36.557	5491.7100	5528.2669	
11n40MIMO	Ant9	5510	36.583	5491.7256	5528.3090	
11n40MIMO	Ant7	5550	36.618	5531.6576	5568.2758	
11n40MIMO	Ant9	5550	36.609	5531.7101	5568.3189	
11n40MIMO	Ant7	5670	36.58	5651.6867	5688.2666	
11n40MIMO	Ant9	5670	36.606	5651.6795	5688.2859	
11n40MIMO	Ant7	5755	36.813	5736.6014	5773.4140	
11n40MIMO	Ant9	5755	36.74	5736.6144	5773.3543	



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			Page.	02 01	55 4	
11n40MIMO	Ant7	5795	36.764	5776.6662	5813.4307	
11n40MIMO	Ant9	5795	36.667	5776.6801	5813.3472	
11ac80MIMO	Ant7	5210	75.973	5172.0496	5248.0230	
11ac80MIMO	Ant9	5210	75.932	5172.0791	5248.0107	
11ac80MIMO	Ant7	5290	75.858	5252.1773	5328.0354	
11ac80MIMO	Ant9	5290	75.845	5252.2218	5328.0668	
11ac80MIMO	Ant7	5530	76.213	5491.7608	5567.9739	
11ac80MIMO	Ant9	5530	76.29	5491.7614	5568.0516	
11ac80MIMO	Ant7	5610	76.27	5571.9107	5648.1808	
11ac80MIMO	Ant9	5610	76.224	5571.9063	5648.1300	
11ac80MIMO	Ant7	5775	76.233	5736.9237	5813.1568	
11ac80MIMO	Ant9	5775	76.318	5736.8661	5813.1845	
11ax20MIMO	Ant7	5180	19.366	5170.3130	5189.6785	
11ax20MIMO	Ant9	5180	19.435	5170.3276	5189.7627	
11ax20MIMO	Ant7	5220	19.301	5210.3173	5229.6178	
11ax20MIMO	Ant9	5220	19.352	5210.2783	5229.6301	
11ax20MIMO	Ant7	5240	19.364	5230.2795	5249.6436	
11ax20MIMO	Ant9	5240	19.314	5230.3279	5249.6417]
11ax20MIMO	Ant7	5260	19.394	5250.2783	5269.6722]
11ax20MIMO	Ant9	5260	19.311	5250.3155	5269.6268	1
11ax20MIMO	Ant7	5300	19.35	5290.3287	5309.6789	1
11ax20MIMO	Ant9	5300	19.359	5290.3113	5309.6705	1
11ax20MIMO	Ant7	5320	19.306	5310.2987	5329.6051	
11ax20MIMO	Ant9	5320	19.413	5310.3250	5329.7376	
11ax20MIMO	Ant7	5500	19.579	5490.1956	5509.7748	
11ax20MIMO	Ant9	5500	19.668	5490.1609	5509.8285	
11ax20MIMO	Ant7	5580	19.454	5570.2445	5589.6984	
11ax20MIMO	Ant9	5580	19.399	5570.2593	5589.6580	
11ax20MIMO	Ant7	5700	19.356	5690.3190	5709.6755	
11ax20MIMO	Ant9	5700	19.346	5690.2908	5709.6370	
11ax20MIMO	Ant7	5745	19.363	5735.3160	5754.6787	
11ax20MIMO	Ant9	5745	19.353	5735.3027	5754.6555	
11ax20MIMO	Ant7	5785	19.31	5775.3239	5794.6343	
11ax20MIMO	Ant9	5785	19.308	5775.2938	5794.6016	
11ax20MIMO	Ant7	5825	19.328	5815.2865	5834.6146	
11ax20MIMO	Ant9	5825	19.386	5815.2882	5834.6744	
11ax40MIMO	Ant7	5190	37.844	5171.1027	5208.9470	
11ax40MIMO	Ant9	5190	37.753	5171.1591	5208.9121	
11ax40MIMO	Ant7	5230	37.696	5211.1743	5248.8707	
11ax40MIMO	Ant9	5230	37.778	5211.1229	5248.9014	1
11ax40MIMO	Ant7	5270	37.831	5251.1401	5288.9710	1
11ax40MIMO	Ant9	5270	37.783	5251.1248	5288.9078	1
11ax40MIMO	Ant7	5310	37.698	5291.1440	5328.8423	1
11ax40MIMO	Ant9	5310	37.76	5291.1410	5328.9011	1
11ax40MIMO	Ant7	5510	37.669	5491.1773	5528.8459	1
11ax40MIMO	Ant9	5510	37.769	5491.1394	5528.9079	1
11ax40MIMO	Ant7	5550	37.784	5531.1369	5568.9211	1
11ax40MIMO	Ant9	5550	37.806	5531.1093	5568.9150	1
11ax40MIMO	Ant7	5670	37.824	5651.0437	5688.8676	1
11ax40MIMO	Ant9	5670	37.639	5651.1970	5688.8357	1
11ax40MIMO	Ant7	5755	37.921	5736.0627	5773.9836	1
11ax40MIMO	Ant9	5755	37.916	5736.0554	5773.9711	1
11ax40MIMO	Ant7	5795	37.869	5776.0913	5813.9607	1
11ax40MIMO	Ant9	5795	37.987	5776.0010	5813.9879	1
11ax80MIMO	Ant7	5210	78.026	5171.0882	5249.1145	1
11ax80MIMO	Ant9	5210	77.95	5171.1091	5249.0592	1
11ax80MIMO	Ant7	5290	77.971	5251.0821	5329.0529	1
			-			1



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11ax80MIMO	Ant9	5290	77.984	5251.0243	5329.0082	
11ax80MIMO	Ant7	5530	78.112	5490.8851	5568.9973	
11ax80MIMO	Ant9	5530	77.977	5491.0144	5568.9917	
11ax80MIMO	Ant7	5610	77.919	5571.0783	5648.9972	
11ax80MIMO	Ant9	5610	77.968	5571.0823	5649.0499	
11ax80MIMO	Ant7	5775	78.246	5735.8844	5814.1304	
11ax80MIMO	Ant9	5775	78.316	5735.9477	5814.2641	

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11n HT20/40 by referring to their higher output power.



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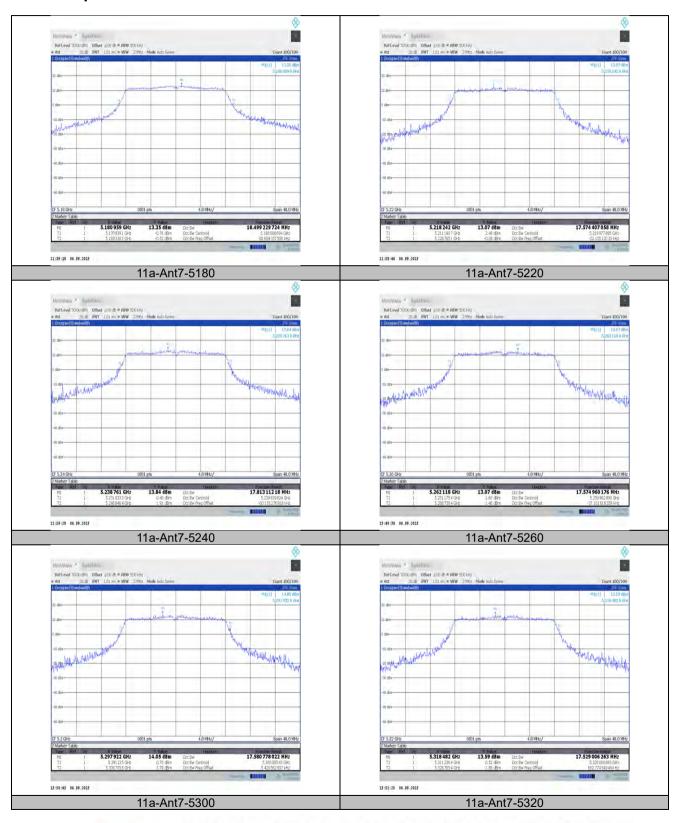


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Test Graphs





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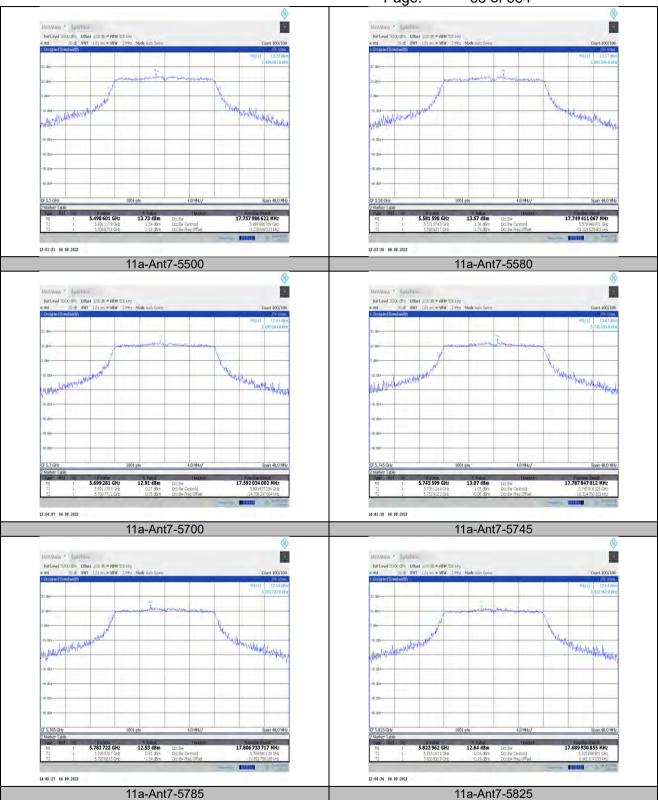
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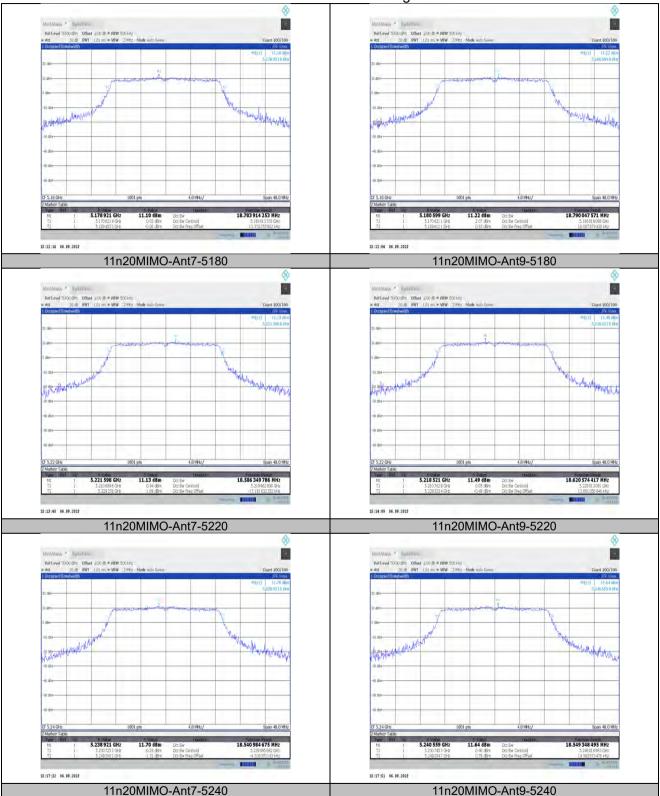
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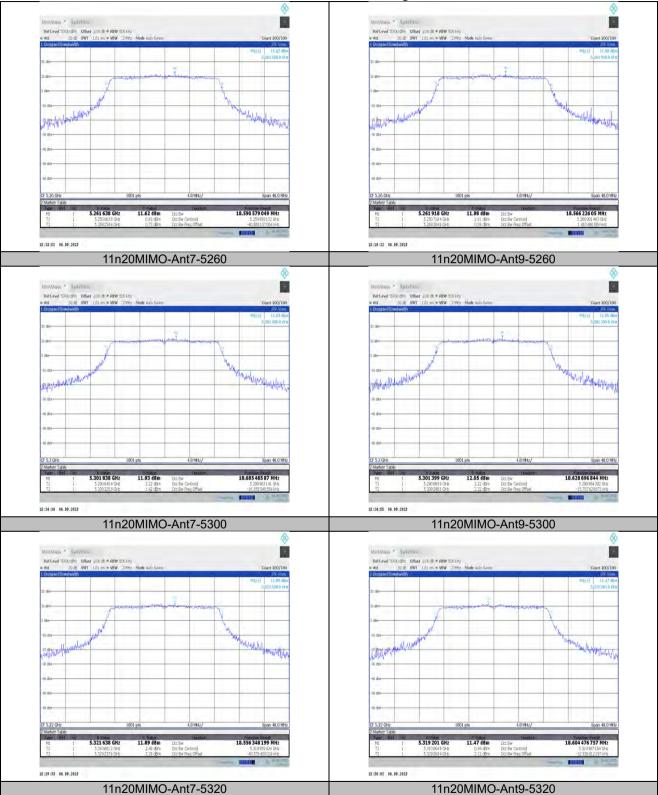
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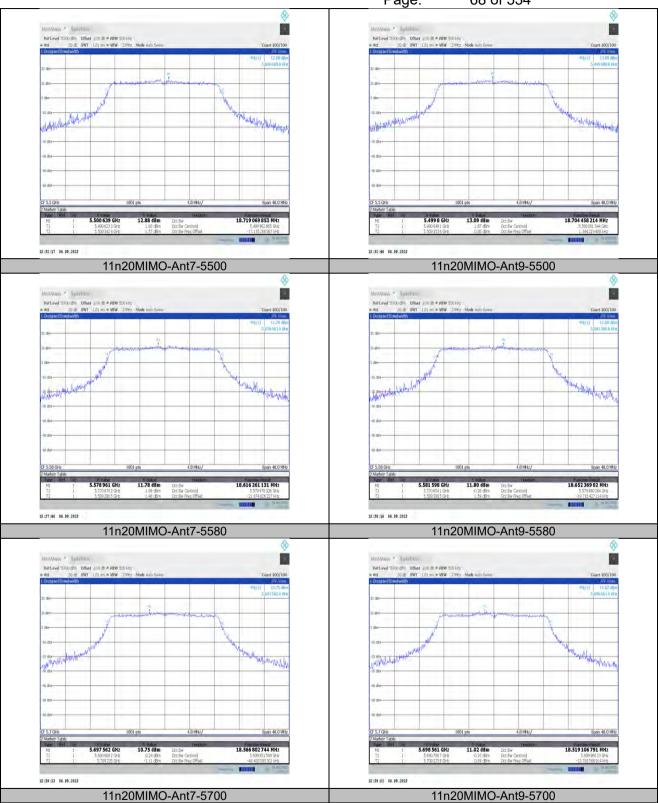
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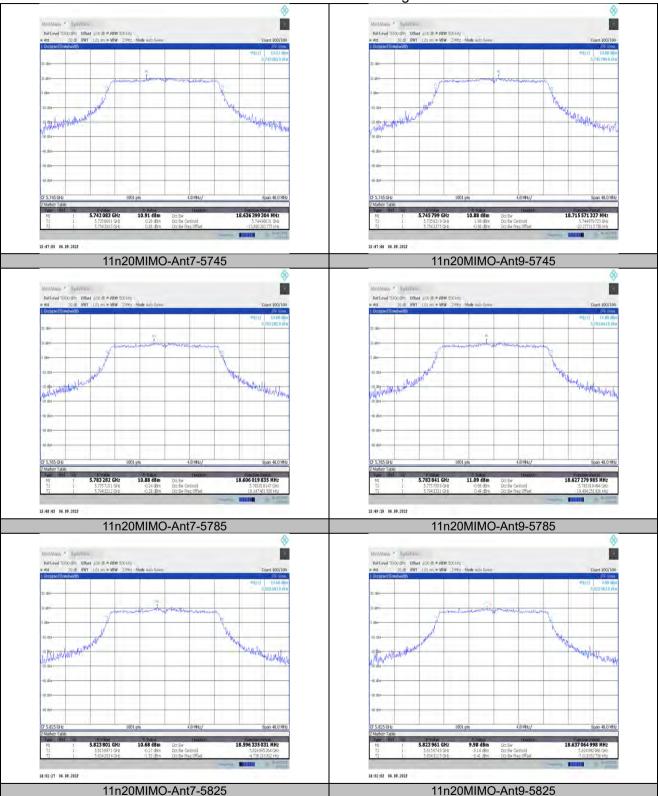
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