

Report No.: SUAR/2021/C000306

Rev.: 01

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### **TEST REPORT**

Application No.: AR/2021/C0003

**Applicant:** Xiaomi Communications Co., Ltd.

Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

**EUT Description:** Mobile Phone **Model No.:** 22021211RG

Brand Name: POCO

FCC ID: 2AFZZ211RG

**Standards**: 47 CFR FCC Part 2, Subpart J

47 CFR FCC Part 15, Subpart E

**Date of Receipt:** 2022/1/14

**Date of Test:** 2022/1/28 to 2022/2/21

**Date of Issue:** 2022/2/22

Test Result : PASS \*

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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### 1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2022/2/22		Original

Prepared By	weller liu	
	(Weller Liu) / Engineer	
Checked By	well wei'	
	(Well Wei) / Reviewer	



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2 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules	Test Requirements	Test Result	Result
Antenna Requirement		15.203/407(a)		Clause 4.1	PASS
26dB Emission Bandwidth	Band I Band II-A Band II-C	15.407(a)(1) 15.407(a)(2) 15.407(a)(2)	No limit.	Clause 4.5	PASS
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band II-A Band II-C Band III	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS
Duty Cycle	Band I Band II-A Band II-C Band III		No limit.	Clause 4.3	PASS
Maximum	Band I	15.407(a)	< 250mW		
Conducted Output Power	Band II-A Band II-C	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause 4.4</td><td>PASS</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause 4.4	PASS
·	Band III	15.407(a)(3)	< 1W		
Maximum	Band I	15.407(a)	<11dBm/MHz		
Power Spectral	Band II-A Band II-C	15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS
Density	Band III	15.407(a)(3)	<30dBm/500KHz		
	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).		PASS
Unwanted Emissions that fall Out of the Restricted Bands	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
(Radiated)	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).		PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP)		PASS



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-			raye. 4 01 1	<u> </u>	
			a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	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
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



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### 3 General Information

### 3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 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 Par Area, China (Jiangsu) Pilot Free Trade Zone		
Post code: 215000		
Test engineer: Weller Liu, King-p Li, Nature Shen, Tizzy Song		

### 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

FUT Description:	Mobile Phone		
EUT Description:			
Model No.:	22021211RG		
Brand Name:	POCO		
Hardware Version:	P2		
Software Version:	MIUI 13		
IEEE 802.11 WLAN Mode Supported:	<ul> <li>⋈ 802.11a (20 MHz channel bandwidth),</li> <li>⋈ 802.11n (20 MHz channel bandwidth)</li> <li>⋈ 802.11n (40 MHz channel bandwidth),</li> <li>⋈ 802.11ac/ax (20 MHz channel bandwidth)</li> <li>⋈ 802.11ac/ax (40 MHz channel bandwidth)</li> <li>⋈ 802.11ac/ax (80 MHz channel bandwidth)</li> </ul>		
Operation Frequency:	IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80)/ax(HE20/40/80): 5150MHz to 5250MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80)/ax(HE20/40/80): 5250MHz to 5350MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80)/ax(HE20/40/80): 5470MHz to 5725MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80)/ax(HE20/40/80): 5725MHz to 5850MHz		
Type of Modulation:	OFDM/OFDMA		
Sample Type:	⊠ Portable Device, ☐Module		
Antenna Type:	PIFA Antenna		
Smart System:	<ul> <li>✓ SISO (for 802.11a/n/ac/ax),</li> <li>✓ MIMO (for 802.11a/n/ac/ax), 2 Tx &amp; 2 Rx,</li> <li>☐ Diversity (for 802.11a).</li> </ul>		
Antonno Cointi	⊠Provided by client		
Antenna Gain*:	-0.78dBi(ANT17); 0.75dBi(ANT18);		
DE 0.11.*	⊠Provided by client		
RF Cable*:	1dB(Below 1GHz) 1.2dB (1~2GHz) 2.0 dB(Above 2GHz)		
Domark			

#### Remark:

\*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



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#### 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 of Operation Operating Frequency Range (in each Band)	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)	
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5180	
	The Middle channel	5200	
	The Highest channel	5240	
.=== 000 44 4 4 400 41	The Lowest channel	5190	
IEEE 802.11n/ac/ax 40MHz	The Highest channel	5230	
IEEE 802.11ac/ax 80MHz	The Middle channel	5210	

For UNII Band II-A:			
Mode	Channel	Frequency(MHz)	
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5260	
	The Middle channel	5280	
	The Highest channel	5320	
JEEE 000 445 / 57 40M / 5	The Lowest channel	5270	
IEEE 802.11n/ac/ax 40MHz	The Highest channel	5310	
IEEE 802.11ac/ax 80MHz	The Middle channel	5290	



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1 ago. 0 01702			
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 000 44 - a /ay 00MH-	The Lowest channel	5530	
IEEE 802.11ac/ax 80MHz	The Highest channel	5610	

For UNII Band III:				
Mode	Frequency(MHz)			
	The Lowest channel	5745		
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5785		
	The Highest channel	5825		
IEEE 202 11n/co/ox 40MHz	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)
	118*	5590	124	5620
TDWR Channel	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Ctuaddla Channal	138#	5690	144	5720
Straddle Channel	142*	5710		

#### Note:

- 1. The above Frequency and Channel in "\*"were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
- 2. The above Frequency and Channel in "#"were 802.11ac VHT80 and 802.11ax HE80.



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#### 3.5 Test Environment and Mode

Environment Parameter	101.0 KPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~23	3.87	
LTNV	0	3.87	
HTNV	40	3.87	

Remark:

NV: Normal VoltageNT: Normal Temperature

LT: Low Extreme Test Temperature HT: High Extreme Test Temperature

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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### **Test results and Measurement Data**

### 4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203

The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is -0.78dBi(ANT17); 0.75dBi(ANT18).



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### 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	- (1411)	Limit (d	BuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	<ul> <li>* Decreases with the logarithm of the frequency.</li> <li>1) The mains terminal disturbance voltage test was conducted in a shield room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω lines impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of</li> </ul>				



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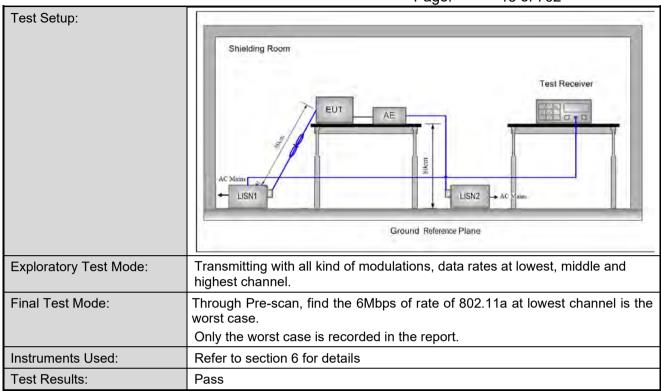
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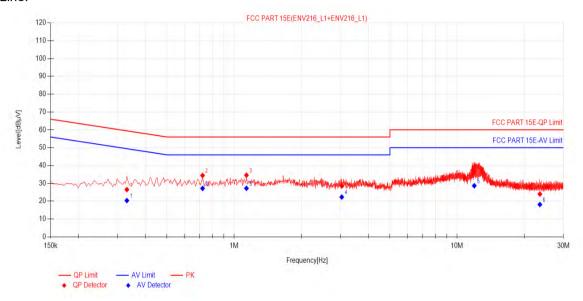
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#### Measurement Data

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.

#### Live Line:



Final	l Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.3300	10.55	26.52	59.45	32.93	20.37	49.45	29.08	PASS
2	0.7215	10.56	34.45	56.00	21.55	27.18	46.00	18.82	PASS
3	1.1355	10.68	34.59	56.00	21.41	27.24	46.00	18.76	PASS
4	3.0390	10.67	28.48	56.00	27.52	22.33	46.00	23.67	PASS
5	11.9535	10.59	36.65	60.00	23.35	28.67	50.00	21.33	PASS
6	23.5365	10.32	24.00	60.00	36.00	18.14	50.00	31.86	PASS

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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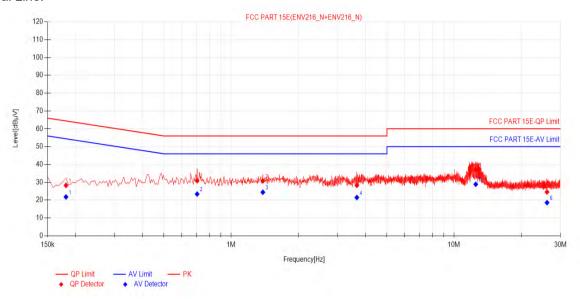


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#### **Neutral Line:**



Final	Data List								
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1815	10.70	28.30	64.42	36.12	21.82	54.42	32.60	PASS
2	0.7035	10.81	30.92	56.00	25.08	23.41	46.00	22.59	PASS
3	1.3875	10.78	30.80	56.00	25.20	24.45	46.00	21.55	PASS
4	3.6645	10.69	28.30	56.00	27.70	21.49	46.00	24.51	PASS
5	12.5160	10.63	37.07	60.00	22.93	28.89	50.00	21.11	PASS
6	26.1420	10.51	24.58	60.00	35.42	18.61	50.00	31.39	PASS

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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### 4.3 Duty Cycle

The detailed test data see: Appendix



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Se	ection 15.407(a)			
Test Method:	ANSI C63.10 :2013	3			
Test Setup:		SGS Test system  Vector Signal Generator  Spectrum Analyzer  Communication Tester  RF Control Unit  Analog Signal Generator  DC Power  Ground Reference Plane			
Test Instruments:	Refer to section 6 t	Refer to section 6 for details			
Exploratory Test Mode:	Transmitting with a	III kind of modulations, data rates			
Final Test Mode:	6Mbps of rate is the MCS0 of rate is the	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)/ax(HE20). MCS0 of rate is the worst case of 802.11ac(VHT40)/ax(HE40). MCS0 of rate is the worst case of 802.11ac(VHT80)/ax(HE80). Only the worst case is recorded in the report.			
Limit:	Frequency Band	Limit			
	5150-5250MHz	Not exceed 250mW(24dBm)			
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB			
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB			
	5725-5850MHz	Not exceed 1W(30dBm)			
	*Where B is the 26	dB emission bandwidth in MHz			
Test Results:	Pass				
The detailed test data see	Appendix				



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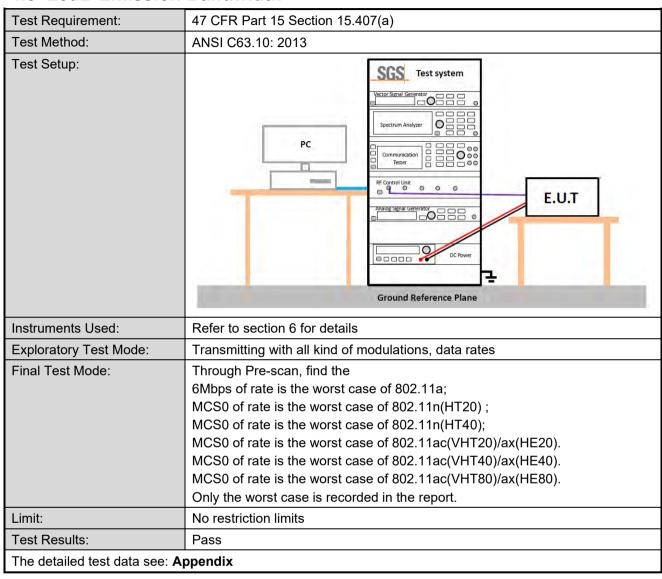


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#### 4.5 26dB Emission Bandwidth





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### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.40	07(e)		
Test Method:	ANSI C63.10: 2013			
Test Setup:	PC	SGS Test system  Visctor Signal Generator  Spectrum Analyzer  Communication  Ref Control Unit  Analog September  DC Power  Ground Reference Plane		
Test Instruments:	Refer to section 6 for details			
Exploratory Test Mode:	Transmitting with all kind of m	nodulations, data rates		
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20)/ax(HE20). MCS0 of rate is the worst case of 802.11ac(VHT40)/ax(HE40). MCS0 of rate is the worst case of 802.11ac(VHT80)/ax(HE80). Only the worst case is recorded in the report.			
Limit:	Frequency Band	Limit		
Tark Darwitar	5725-5850MHz	At lease 500kHz		
Test Results:	Pass			
The detailed test data see:	Appendix			



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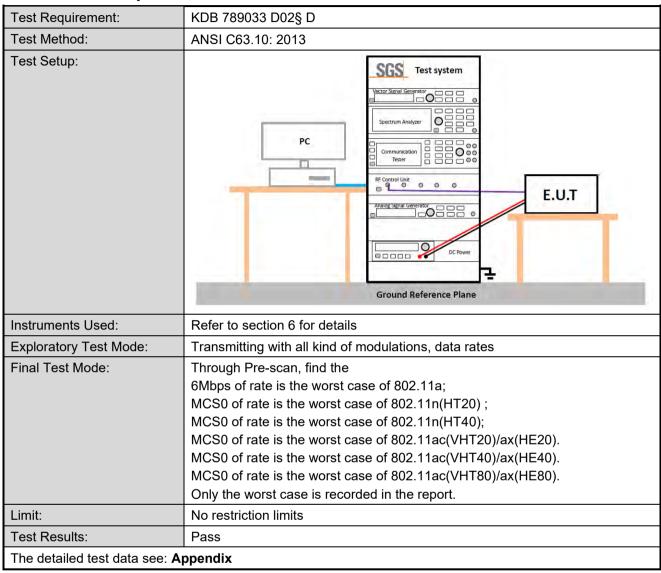


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### 4.7 99% Occupied Bandwidth





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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: 2013			
	KDB 789033 D02 v0	2r01, Section F.		
Test Setup:	PC	SGS Test system    Sector Signal Generator		
Instruments Used:	Refer to section 6 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	MCS0 of rate is the MCS0 o	worst case of 802.11a; worst case of 802.11n(HT20); worst case of 802.11n(HT40); worst case of 802.11ac(VHT20)/ax(HE20). worst case of 802.11ac(VHT40)/ax(HE40). worst case of 802.11ac(VHT80)/ax(HE80). is recorded in the report.		
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/1M			
	5725-5850MHz	The power spectral density less than <30dBm/500KHz		
Test Results:	Pass			
Test Nesults.	1			



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### 4.9 Radiated Spurious Emissions

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

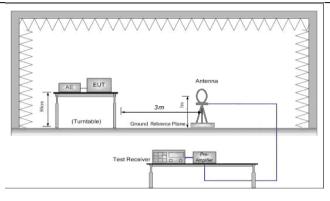
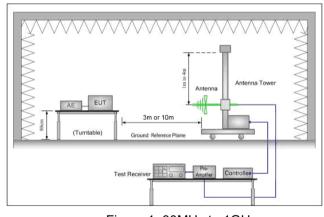


Figure 1. 9kHz to 30MHz



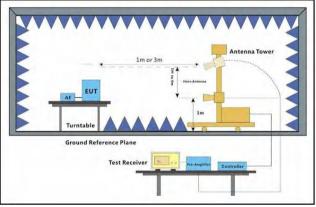


Figure 1. 30MHz to 1GHz

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.
- b. 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.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the



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	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.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y 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 above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the
	6Mbps of rate is the worst case of 802.11a;
	MCS0 of rate is the worst case of 802.11n(HT20);
	MCS0 of rate is the worst case of 802.11n(HT40);
	MCS0 of rate is the worst case of 802.11ac(VHT20)/ax(HE20).
	MCS0 of rate is the worst case of 802.11ac(VHT40)/ax(HE40).
	MCS0 of rate is the worst case of 802.11ac(VHT80)/ax(HE80).
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case.
	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	e: Appendix



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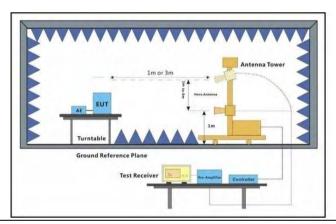
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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15	47 CFR Part 15 Section 15.407(b)						
Test Method:	ANSI C63.10: 2013							
Test Site:	Measurement Distance: 3n	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 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.
- 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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	Transmitting mode, And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the
	6Mbps of rate is the worst case of 802.11a;
	MCS0 of rate is the worst case of 802.11n(HT20);
	MCS0 of rate is the worst case of 802.11n(HT40);
	MCS0 of rate is the worst case of 802.11ac(VHT20)/ax(HE20).
	MCS0 of rate is the worst case of 802.11ac(VHT40)/ax(HE40).
	MCS0 of rate is the worst case of 802.11ac(VHT80)/ax(HE80).
	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	e: 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	±7.25x 10 <sup>-8</sup>
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 <sup>-8</sup>
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
		± 3.13dB (9k -30MHz)
0	Dedicted Environm	± 4.8dB (30M -1GHz)
8	Radiated Emission	± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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### 6 Equipment List

	Tonscend Test System									
<b>-</b>	Mary food on		L N.	Cal. date	Cal.Due date					
Equipment	Manufacturer	Model No.	Inventory No.	(yyyy-mm- dd)	(yyyy-mm- dd)					
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7					
Temperature and	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19					
humidity meter	IviiiigGao	1111015	30WI-01-01-01	2022/2/19	2023/2/18					
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27					
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19					
DC Fower Supply			30771-01-10-01	2022/2/19	2023/2/18					
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3					
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3					
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.51	SUWI-02-09-09	NCR	NCR					
Temperature	ESPEC	SU-242	SUWI-01-13-01	2021/2/20	2022/2/19					
Chamber	ESFEC	30-242	30001-01-13-01	2022/2/19	2023/2/18					

	CE Test Equipment										
Equipment	Manufacturer	er Model No. Inventory No.		Cal Date	Cal Due Date						
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7						
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19						
Artificial fletwork	RUNDEASUNWARZ	ENVZIO	30001-01-19-01	2022/2/19	2023/2/18						
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19						
Artificial fletwork			30771-01-19-02	2022/2/19	2023/2/18						
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR						
Temperature and	MingCoo	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19						
humidity meter	MingGao	ІПІОІВ	30771-01-00	2022/2/19	2023/2/18						
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19						
restreceiver	NOTIBERSOTIWANZ	LOIV	30771-01-10-01	2022/2/19	2023/2/18						



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	KSE 16		ו ט-סינ		Cal Due					
Equipment	nt Manufacturer Model No. Inventory No.		Cal Date	Date						
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7					
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20 2022/2/19	2022/2/19 2023/2/18					
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27					
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20 2022/2/19	2022/2/19 2023/2/18					
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20 2022/2/19	2022/2/19 2023/2/18					
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15					
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15					
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13					
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20 2022/2/19	2022/2/19 2023/2/18					
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20 2022/2/19	2022/2/19 2023/2/18					
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20 2022/2/19	2022/2/19 2023/2/18					
Active Loop Antenna	ve Loop Antenna SCHWRZBECK MESS- FMZB 1519B SUW ELEKTRONIK		SUWI-01-21-01	2021/6/10	2022/6/9					
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR					



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### 7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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# **Appendix**



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### **Emission Bandwidth** Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant17	5180	19.04	5170.32	5189.36		PASS
	Ant18	5180	23.12	5168.76	5191.88		PASS
	Ant17	5220	19.68	5209.72	5229.40		PASS
	Ant18	5220	22.20	5209.20	5231.40		PASS
	Ant17	5240	19.68	5229.76	5249.44		PASS
	Ant18	5240	23.40	5228.12	5251.52		PASS
	Ant17	5260	18.88	5250.44	5269.32		PASS
	Ant18	5260	20.92	5249.40	5270.32		PASS
	Ant17	5300	19.12	5290.28	5309.40		PASS
	Ant18	5300	19.52	5290.12	5309.64		PASS
	Ant17	5320	18.92	5310.44	5329.36		PASS
	Ant18	5320	20.36	5309.88	5330.24		PASS
	Ant17	5500	18.80	5490.56	5509.36		PASS
	Ant18	5500	20.36	5489.88	5510.24		PASS
444.000	Ant17	5580	19.00	5570.36	5589.36		PASS
11A-CDD	Ant18	5580	20.88	5569.40	5590.28		PASS
	Ant17	5700	19.60	5689.72	5709.32		PASS
	Ant18	5700	21.04	5689.32	5710.36		PASS
	Ant17	5720	19.72	5709.72	5729.44		PASS
	Ant18	5720	21.00	5709.36	5730.36		PASS
	Ant17	5720_UNII-2C	15.28	5709.72	5725		PASS
	Ant18	5720_UNII-2C	15.64	5709.36	5725		PASS
	Ant17	5720_UNII-3	4.44	5725	5729.44		PASS
	Ant18	5720_UNII-3	5.36	5725	5730.36		PASS
	Ant17	5745	19.72	5734.68	5754.40		PASS
	Ant18	5745	21.04	5734.32	5755.36		PASS
	Ant17	5785	19.68	5774.76	5794.44		PASS
	Ant18	5785	21.00	5774.32	5795.32		PASS
	Ant17	5825	19.72	5814.72	5834.44		PASS
	Ant18	5825	21.24	5814.24	5835.48		PASS
	Ant17	5180	20.16	5169.84	5190.00		PASS
	Ant18	5180	22.24	5168.68	5190.92		PASS
	Ant17	5220	20.08	5209.92	5230.00		PASS
	Ant18	5220	22.44	5208.72	5231.16		PASS
	Ant17	5240	20.40	5229.88	5250.28		PASS
11N20MIMO	Ant18	5240	23.28	5228.04	5251.32		PASS
	Ant17	5260	19.96	5250.00	5269.96		PASS
	Ant18	5260	21.44	5249.08	5270.52		PASS
	Ant17	5300	19.96	5289.96	5309.92		PASS
	Ant18	5300	21.44	5289.12	5310.56		PASS
	Ant17	5320	20.28	5309.68	5329.96		PASS



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				ray	C. 02	2 01 7 02	
	Ant18	5320	20.32	5309.80	5330.12		PASS
	Ant17	5500	20.36	5489.80	5510.16		PASS
	Ant18	5500	20.40	5489.80	5510.20		PASS
	Ant17	5580	19.88	5570.04	5589.92		PASS
	Ant18	5580	20.16	5569.92	5590.08		PASS
	Ant17	5700	20.48	5689.64	5710.12		PASS
	Ant18	5700	20.88	5689.36	5710.24		PASS
	Ant17	5720	20.44	5709.80	5730.24		PASS
	Ant18	5720	20.80	5709.56	5730.36		PASS
	Ant17	5720_UNII-2C	15.2	5709.80	5725		PASS
	Ant18	5720_UNII-2C	15.44	5709.56	5725		PASS
	Ant17	5720_UNII-3	5.24	5725	5730.24		PASS
	Ant18	5720_UNII-3	5.36	5725	5730.36		PASS
	Ant17	5745	20.68	5734.56	5755.24		PASS
	Ant18	5745	20.92	5734.36	5755.28		PASS
	Ant17	5785	20.40	5774.72	5795.12		PASS
	Ant18	5785	21.04	5774.36	5795.40		PASS
	Ant17	5825	19.80	5815.12	5834.92		PASS
	Ant18	5825	21.44	5814.16	5835.60		PASS
	Ant17	5190	39.92	5170.08	5210.00		PASS
	Ant18	5190	40.48	5169.76	5210.24		PASS
	Ant17	5230	40.08	5209.92	5250.00		PASS
	Ant18	5230	40.32	5209.84	5250.16		PASS
	Ant17	5270	40.16	5249.92	5290.08		PASS
	Ant18	5270	40.40	5249.84	5290.24		PASS
	Ant17	5310	39.92	5290.08	5330.00		PASS
	Ant18	5310	40.24	5289.92	5330.16		PASS
	Ant17	5510	40.00	5490.08	5530.08		PASS
	Ant18	5510	40.24	5489.92	5530.16		PASS
	Ant17	5550	39.92	5530.08	5570.00		PASS
	Ant18	5550	40.32	5530.00	5570.32		PASS
11N40MIMO	Ant17	5670	40.00	5650.00	5690.00		PASS
	Ant18	5670	40.00	5650.24	5690.24		PASS
	Ant17	5710	40.24	5689.76	5730.00		PASS
	Ant18	5710	40.32	5689.84	5730.16		PASS
	Ant17	5710 UNII-2C	35.24	5689.76	5725		PASS
	Ant18	5710 UNII-2C	35.16	5689.84	5725		PASS
	Ant17	5710_UNII-3	5	5725	5730.00		PASS
	Ant18	 5710_UNII-3	5.16	5725	5730.16		PASS
	Ant17	5755	39.76	5735.16	5774.92		PASS
	Ant18	5755	40.64	5734.68	5775.32		PASS
	Ant17	5795	40.24	5774.84	5815.08		PASS
	Ant18	5795	40.40	5774.84	5815.24		PASS
	Ant17	5180	20.24	5169.64	5189.88		PASS
11AC20MIMO	Ant18	5180	21.28	5169.32	5190.60		PASS
020.	Ant17	5220	20.36	5209.68	5230.04		PASS



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				Pag	Je. 30	3 OT 762	
	Ant18	5220	21.40	5209.32	5230.72		PASS
	Ant17	5240	20.44	5229.68	5250.12		PASS
	Ant18	5240	22.12	5229.12	5251.24		PASS
	Ant17	5260	20.28	5249.68	5269.96		PASS
	Ant18	5260	20.36	5249.88	5270.24		PASS
	Ant17	5300	20.60	5289.64	5310.24		PASS
	Ant18	5300	20.68	5289.56	5310.24		PASS
	Ant17	5320	20.60	5309.72	5330.32		PASS
	Ant18	5320	21.00	5309.32	5330.32		PASS
	Ant17	5500	20.36	5489.68	5510.04		PASS
	Ant18	5500	21.00	5489.56	5510.56		PASS
	Ant17	5580	20.40	5569.64	5590.04		PASS
	Ant18	5580	21.12	5569.52	5590.64		PASS
	Ant17	5700	20.32	5689.64	5709.96		PASS
	Ant18	5700	20.64	5689.68	5710.32		PASS
	Ant17	5720	20.32	5709.84	5730.16		PASS
	Ant18	5720	20.72	5709.68	5730.40		PASS
	Ant17	5720 UNII-2C	15.16	5709.84	5725		PASS
	Ant18	5720 UNII-2C	15.32	5709.68	5725		PASS
	Ant17	5720 UNII-3	5.16	5725	5730.16		PASS
	Ant18	5720_UNII-3	5.4	5725	5730.40		PASS
	Ant17	5745	20.52	5734.56	5755.08		PASS
	Ant18	5745	21.24	5734.36	5755.60		PASS
	Ant17	5785	20.44	5774.60	5795.04		PASS
	Ant18	5785	20.96	5774.68	5795.64		PASS
	Ant17	5825	20.40	5814.68	5835.08		PASS
	Ant18	5825	22.00	5814.20	5836.20		PASS
	Ant17	5190	40.00	5170.08	5210.08		PASS
	Ant18	5190	39.76	5170.08	5209.84		PASS
	Ant17	5230	40.16	5209.92	5250.08		PASS
	Ant18	5230	39.76	5210.08	5249.84		PASS
	Ant17	5270	39.70	5250.08	5290.00		PASS
	Ant18	5270	39.52	5250.00	5289.76		PASS
	Ant17	5310	40.32	5289.92	5330.24		PASS
	Ant18	5310	39.60	5290.08	5329.68		PASS
	Ant17	5510	40.16	5490.00	5530.16		PASS
11AC40MIMO	Ant18	5510	39.68	5490.00	5529.84		PASS
TTAC40WIIWIO	Ant17	5550	39.84	5530.08	5569.92		
			1	1	+		PASS
	Ant18 Ant17	5550 5670	39.76 40.00	5530.08 5650.00	5569.84		PASS
			+	<u> </u>	5690.00		PASS
	Ant18	5670 5710	39.76	5650.08	5689.84		PASS
	Ant17		40.16	5690.00	5730.16		PASS
	Ant18	5710	40.08	5690.00	5730.08		PASS
	Ant17	5710_UNII-2C	35	5690.00	5725		PASS
	Ant18	5710_UNII-2C	35	5690.00	5725		PASS
	Ant17	5710_UNII-3	5.16	5725	5730.16		PASS



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				Pag	e: 34	1 01 / 62	
	Ant18	5710_UNII-3	5.08	5725	5730.08		PASS
	Ant17	5755	40.48	5734.76	5775.24		PASS
	Ant18	5755	40.00	5735.08	5775.08		PASS
	Ant17	5795	40.16	5775.00	5815.16		PASS
	Ant18	5795	39.84	5775.00	5814.84		PASS
	Ant17	5210	82.40	5168.72	5251.12		PASS
	Ant18	5210	82.56	5168.72	5251.28		PASS
	Ant17	5290	83.20	5248.24	5331.44		PASS
	Ant18	5290	83.04	5248.40	5331.44		PASS
	Ant17	5530	82.40	5488.88	5571.28		PASS
	Ant18	5530	82.72	5488.72	5571.44		PASS
	Ant17	5610	82.88	5568.56	5651.44		PASS
44 4 0000 41140	Ant18	5610	83.36	5568.24	5651.60		PASS
11AC80MIMO	Ant17	5690	82.72	5648.56	5731.28		PASS
	Ant18	5690	83.04	5648.56	5731.60		PASS
	Ant17	5690_UNII-2C	76.44	5648.56	5725		PASS
	Ant18	5690_UNII-2C	76.44	5648.56	5725		PASS
	Ant17	5690_UNII-3	6.28	5725	5731.28		PASS
	Ant18	5690_UNII-3	6.6	5725	5731.60		PASS
	Ant17	5775	82.72	5733.56	5816.28		PASS
	Ant18	5775	82.40	5733.72	5816.12		PASS
	Ant17	5180	20.88	5169.48	5190.36		PASS
	Ant18	5180	22.08	5168.68	5190.76		PASS
	Ant17	5220	20.92	5209.44	5230.36		PASS
	Ant18	5220	22.88	5208.28	5231.16		PASS
	Ant17	5240	20.76	5229.52	5250.28		PASS
	Ant18	5240	24.80	5227.12	5251.92		PASS
	Ant17	5260	20.88	5249.48	5270.36		PASS
	Ant18	5260	21.52	5249.28	5270.80		PASS
	Ant17	5300	20.92	5289.40	5310.32		PASS
	Ant18	5300	22.08	5288.76	5310.84		PASS
	Ant17	5320	20.80	5309.52	5330.32		PASS
	Ant18	5320	21.20	5309.36	5330.56		PASS
11AX20MIMO	Ant17	5500	20.68	5489.60	5510.28		PASS
	Ant18	5500	22.36	5488.76	5511.12		PASS
	Ant17	5580	20.88	5569.48	5590.36		PASS
	Ant18	5580	22.00	5568.80	5590.80		PASS
	Ant17	5700	20.80	5689.56	5710.36		PASS
	Ant18	5700	22.36	5688.40	5710.76		PASS
	Ant17	5720	20.88	5709.56	5730.44		PASS
	Ant18	5720	21.92	5708.80	5730.72		PASS
	Ant17	5720 UNII-2C	15.44	5709.56	5725		PASS
	Ant18	5720 UNII-2C	16.2	5708.80	5725		PASS
	Ant17	5720 UNII-3	5.44	5725	5730.44		PASS
	Ant18	5720 UNII-3	5.72	5725	5730.72		PASS
	7	00_0 0	· ··· -	J. 20			.,,,,,,,



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				Pag	<u>c.</u>	0 01 / 62	
	Ant18	5745	22.44	5733.40	5755.84		PASS
	Ant17	5785	20.84	5774.44	5795.28		PASS
	Ant18	5785	21.96	5773.88	5795.84		PASS
	Ant17	5825	20.72	5814.52	5835.24		PASS
	Ant18	5825	21.96	5813.76	5835.72		PASS
	Ant17	5190	40.64	5169.68	5210.32		PASS
	Ant18	5190	40.56	5169.68	5210.24		PASS
	Ant17	5230	40.56	5209.76	5250.32		PASS
	Ant18	5230	41.20	5209.28	5250.48		PASS
	Ant17	5270	40.72	5249.60	5290.32		PASS
	Ant18	5270	40.96	5249.60	5290.56		PASS
	Ant17	5310	40.64	5289.60	5330.24		PASS
	Ant18	5310	40.72	5289.60	5330.32		PASS
	Ant17	5510	40.80	5489.60	5530.40		PASS
	Ant18	5510	41.28	5489.20	5530.48		PASS
	Ant17	5550	40.80	5529.52	5570.32		PASS
11AX40MIMO	Ant18	5550	40.64	5529.68	5570.32		PASS
TTAX40IVIIIVIO	Ant17	5670	40.56	5649.68	5690.24		PASS
	Ant18	5670	40.80	5649.76	5690.56		PASS
	Ant17	5710	40.88	5689.44	5730.32		PASS
	Ant18	5710	41.04	5689.44	5730.48		PASS
	Ant17	5710_UNII-2C	35.56	5689.44	5725		PASS
	Ant18	5710_UNII-2C	35.56	5689.44	5725		PASS
	Ant17	5710_UNII-3	5.32	5725	5730.32		PASS
	Ant18	5710_UNII-3	5.48	5725	5730.48		PASS
	Ant17	5755	40.88	5734.44	5775.32		PASS
	Ant18	5755	41.44	5734.12	5775.56		PASS
	Ant17	5795	40.72	5774.52	5815.24		PASS
	Ant18	5795	41.04	5774.44	5815.48		PASS
	Ant17	5210	83.36	5168.40	5251.76		PASS
	Ant18	5210	82.56	5168.56	5251.12		PASS
	Ant17	5290	82.24	5248.88	5331.12		PASS
	Ant18	5290	83.04	5248.40	5331.44		PASS
	Ant17	5530	82.56	5488.72	5571.28		PASS
	Ant18	5530	82.56	5488.72	5571.28		PASS
	Ant17	5610	82.56	5568.72	5651.28		PASS
44.4.3/00041040	Ant18	5610	82.56	5568.72	5651.28		PASS
11AX80MIMO	Ant17	5690	82.88	5648.40	5731.28		PASS
	Ant18	5690	82.72	5648.40	5731.12		PASS
	Ant17	5690_UNII-2C	76.6	5648.40	5725		PASS
	Ant18	5690_UNII-2C	76.6	5648.40	5725		PASS
	Ant17	 5690_UNII-3	6.28	5725	5731.28		PASS
	Ant18	5690_UNII-3	6.12	5725	5731.12		PASS
	Ant17	5775	82.72	5733.56	5816.28		PASS
	Ant18	5775	83.04	5733.56	5816.60		PASS



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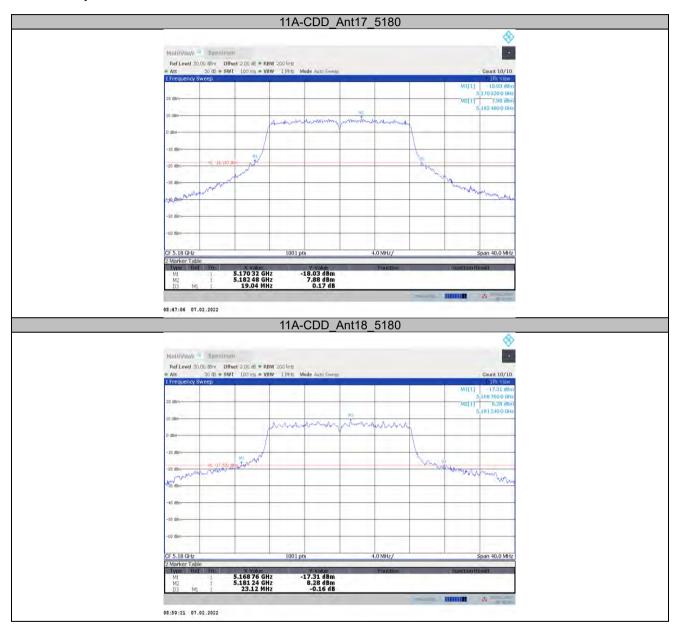


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### **Test Graphs**





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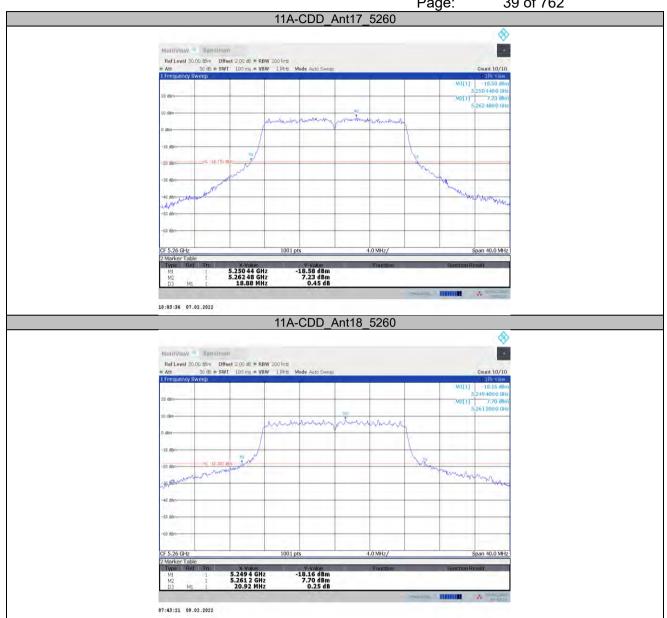
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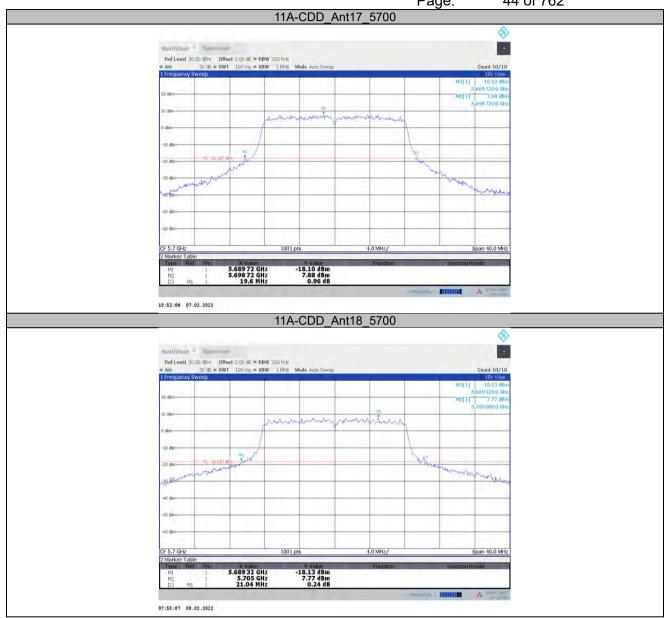
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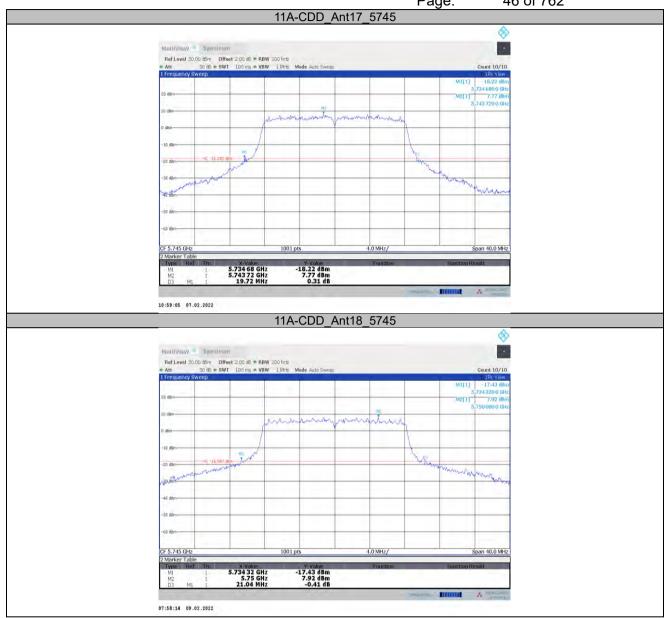
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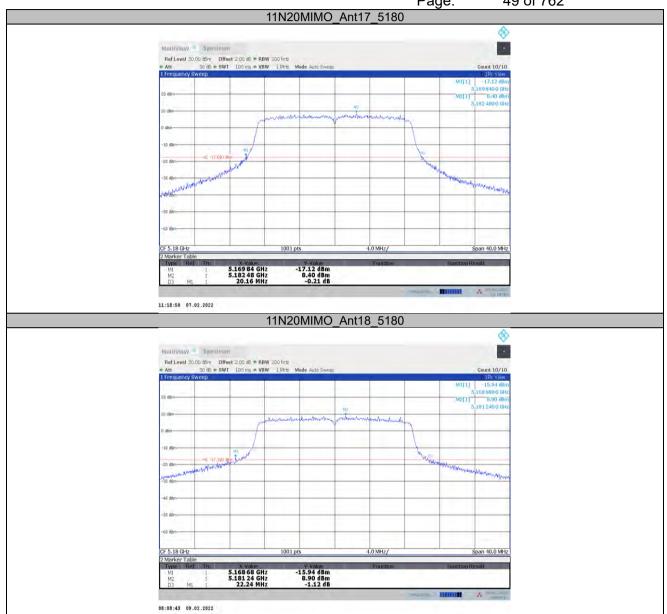
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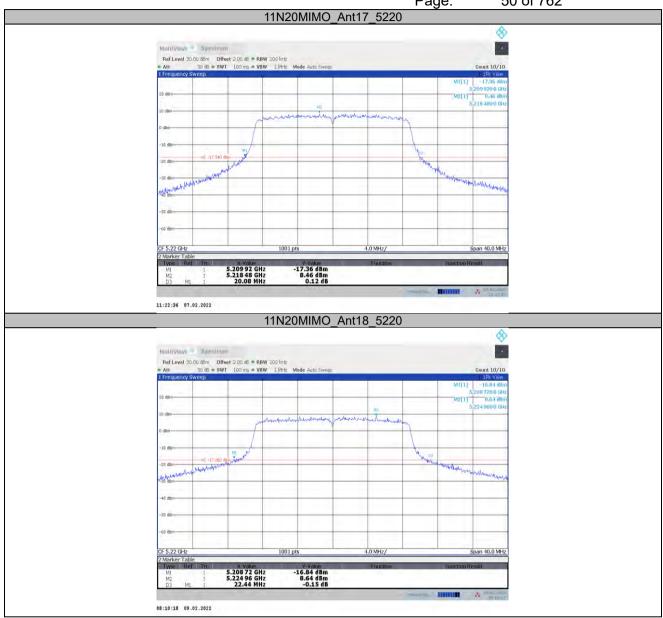
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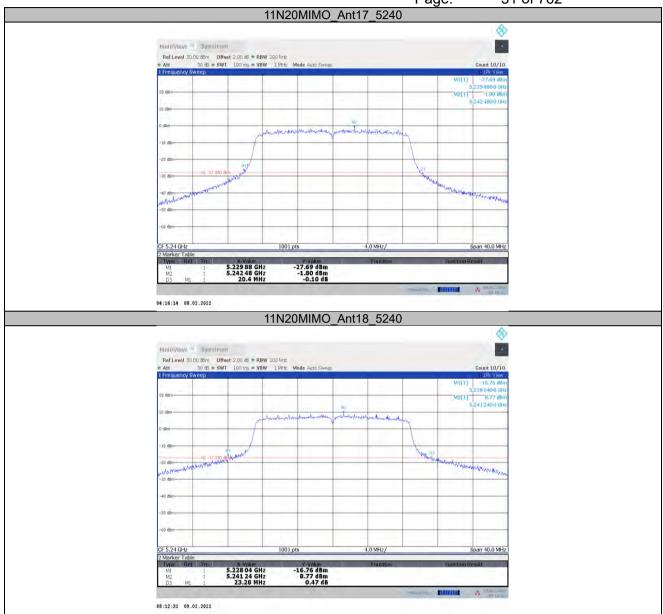
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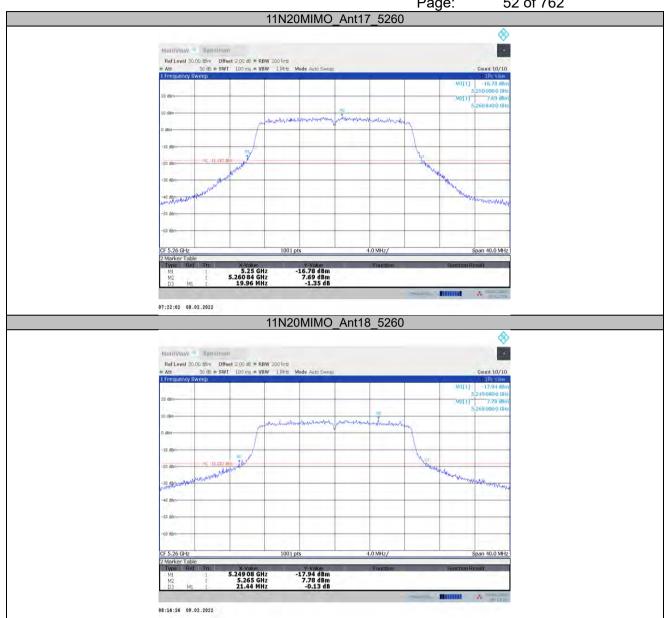
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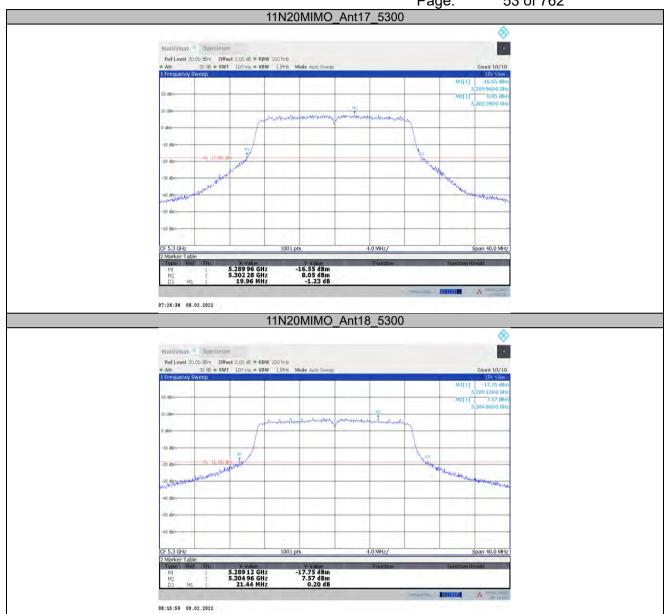
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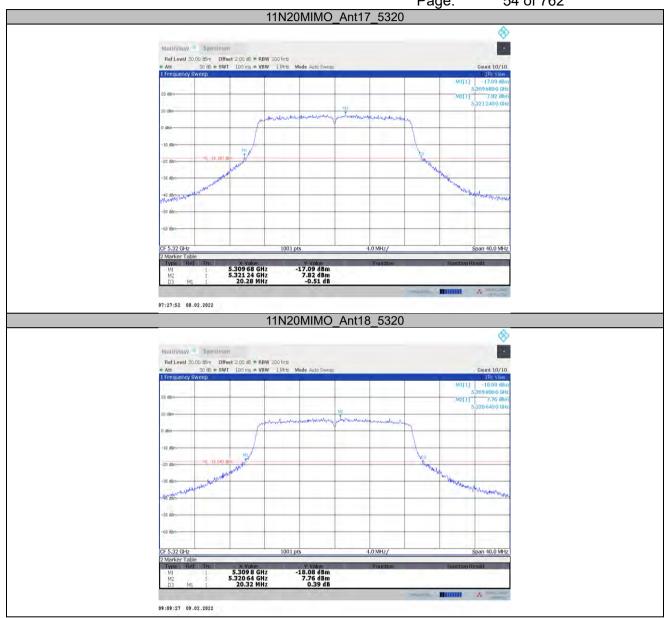
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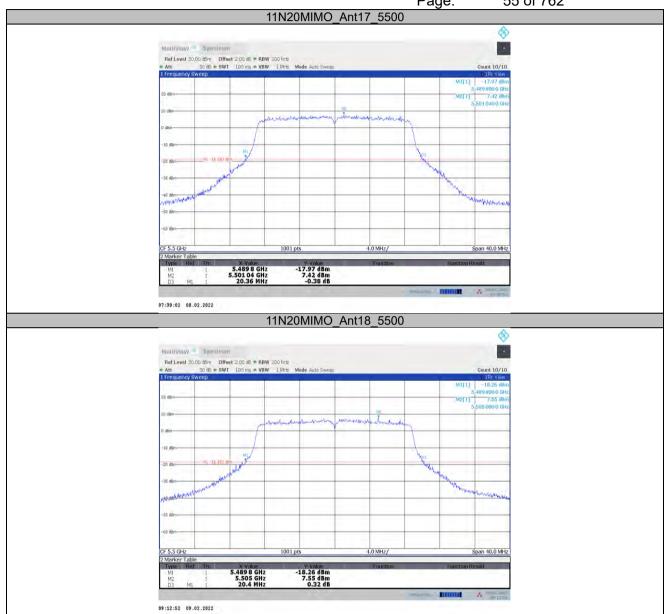
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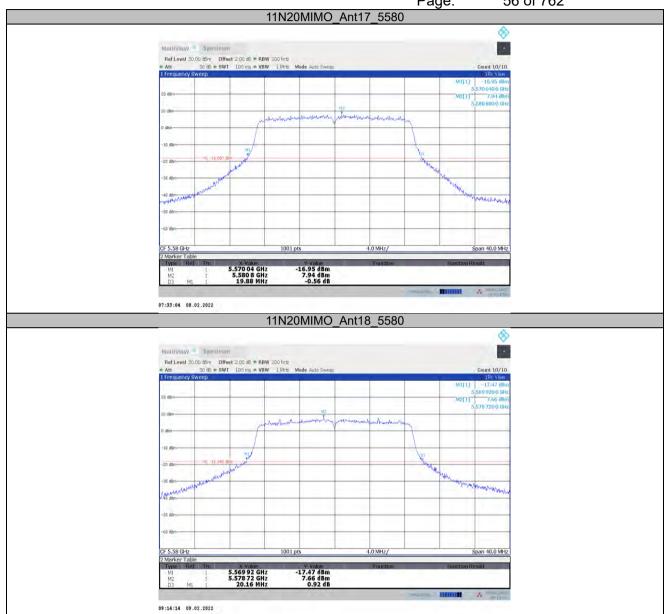
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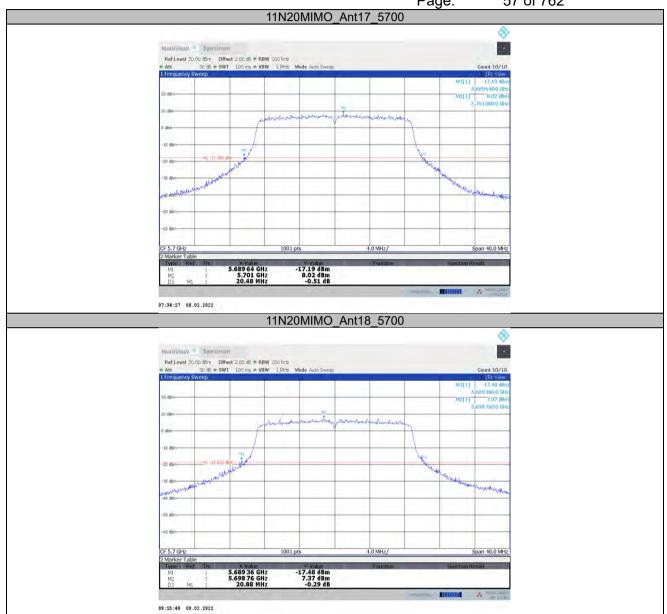
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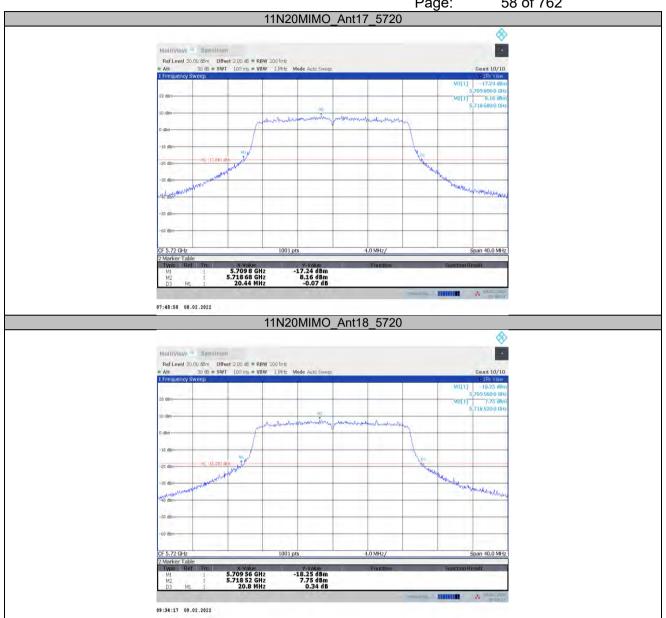
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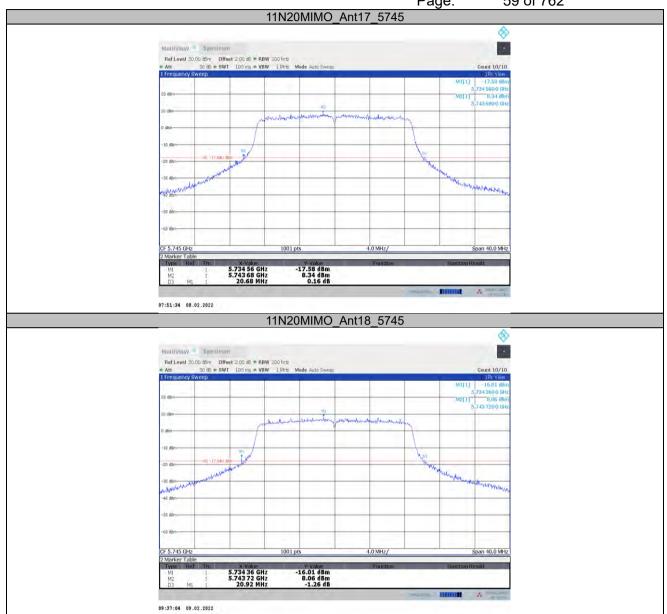
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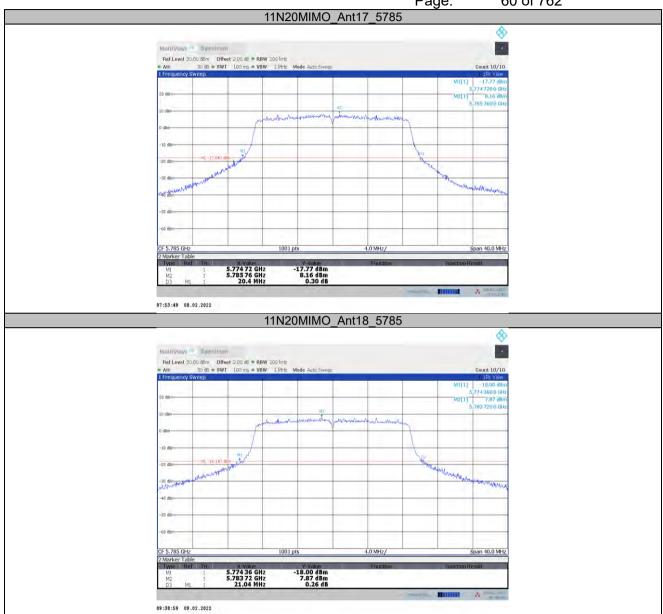
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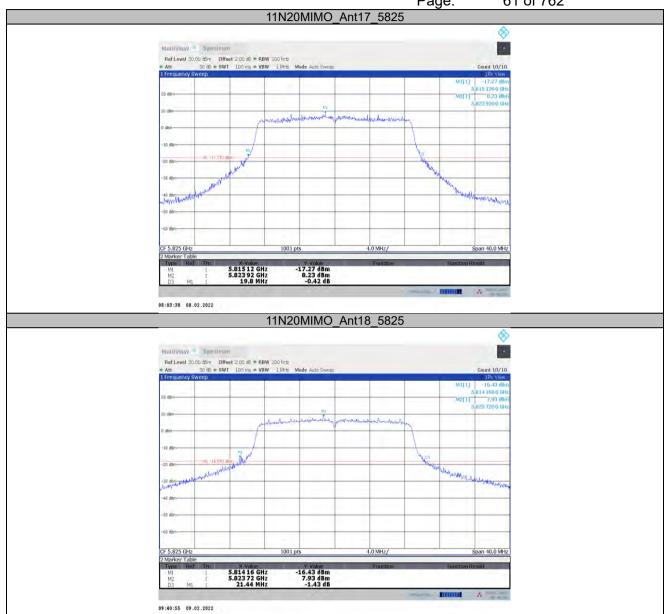
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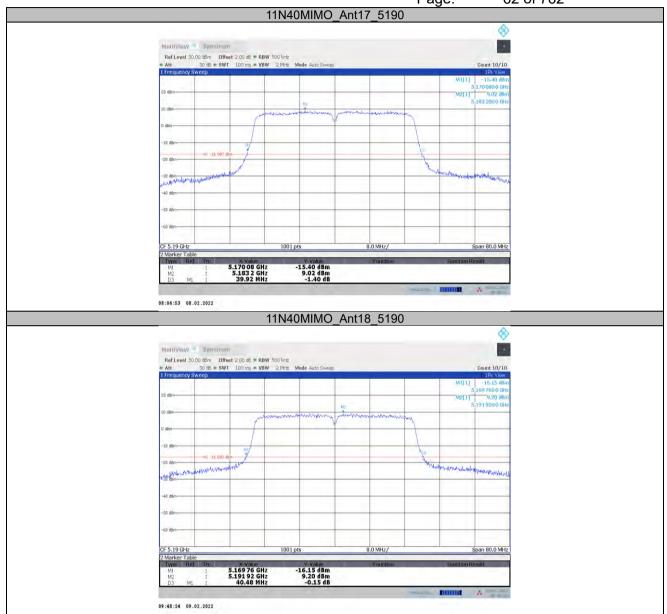
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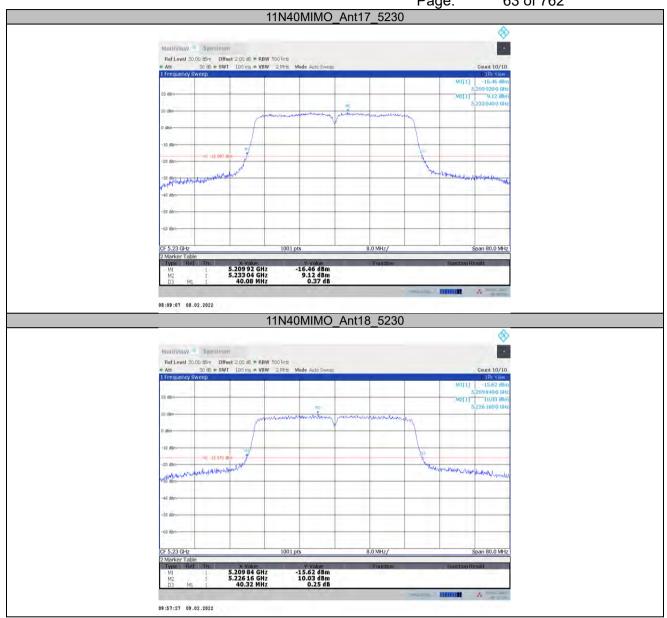
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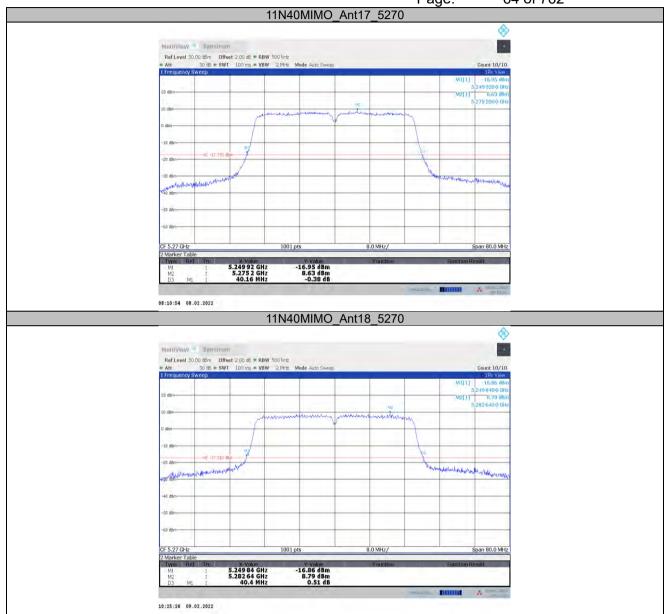
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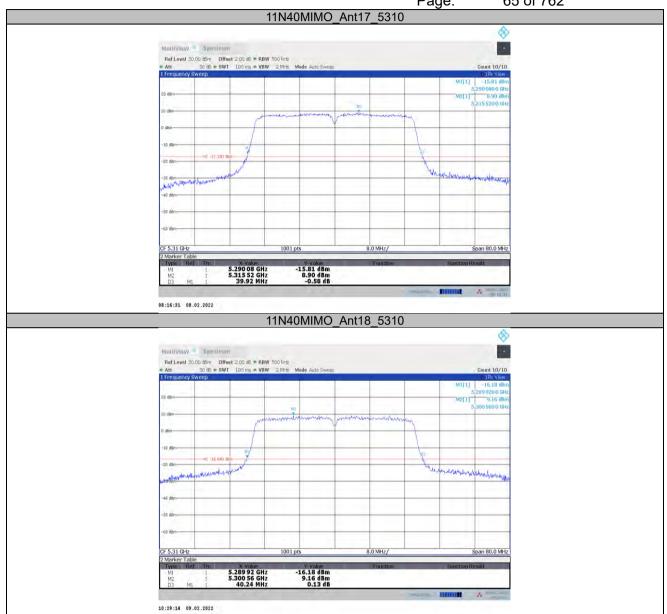
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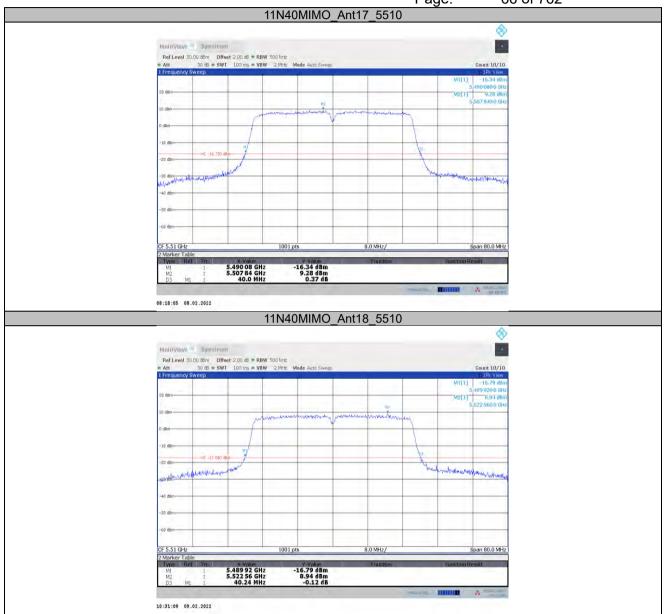
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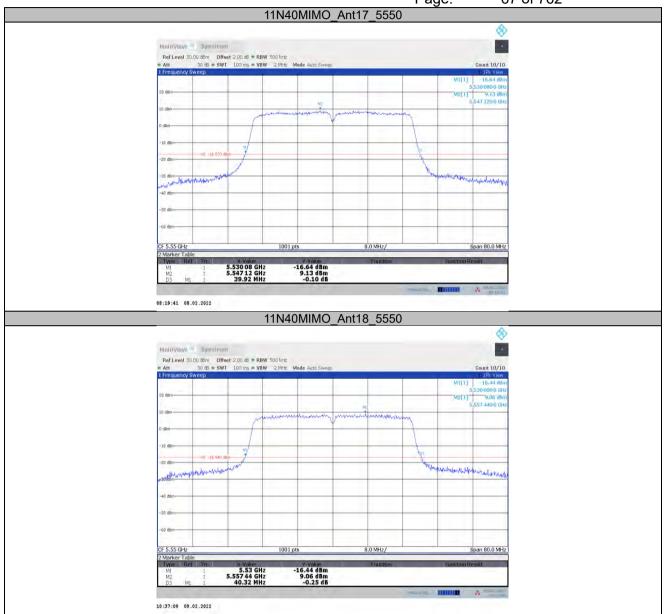
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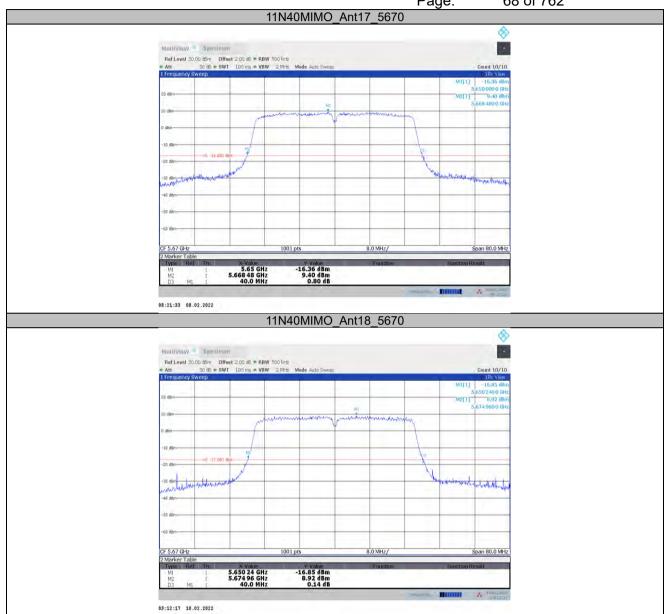
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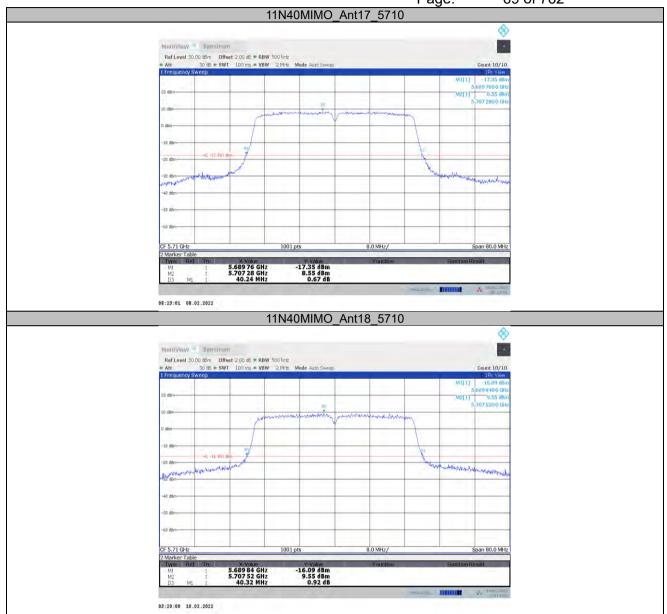
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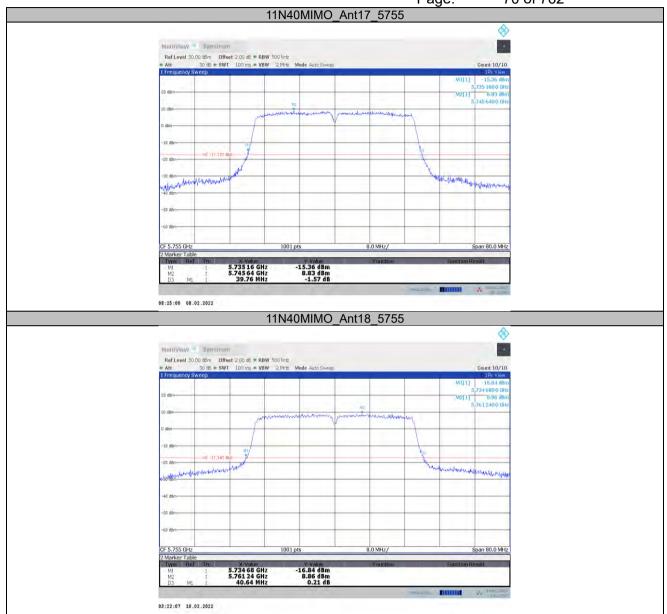
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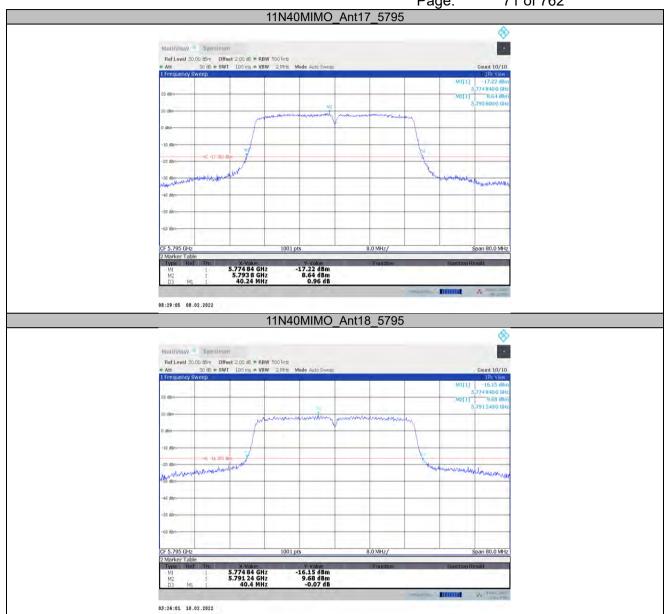
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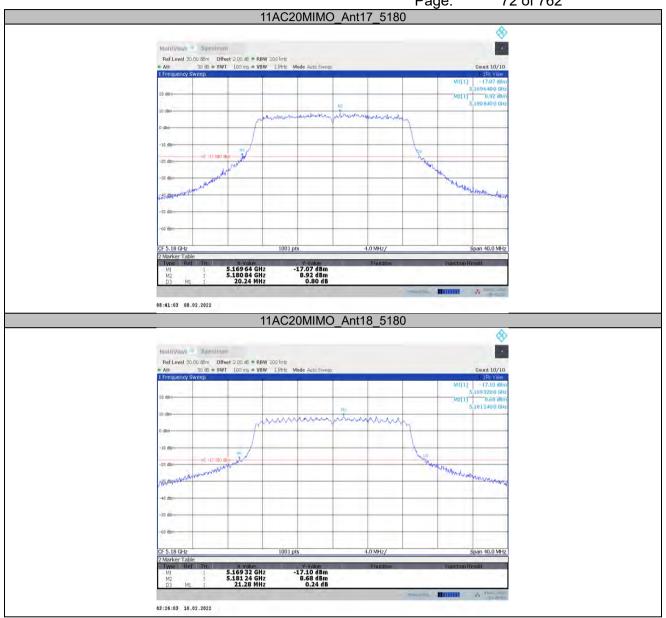
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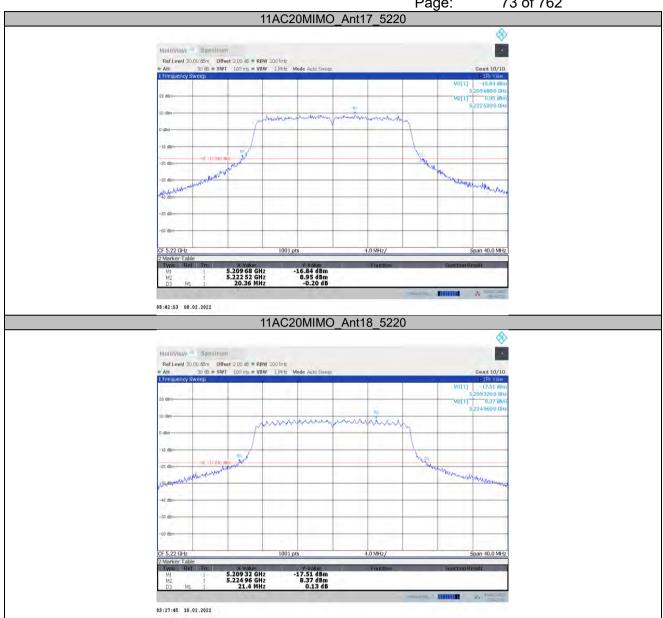
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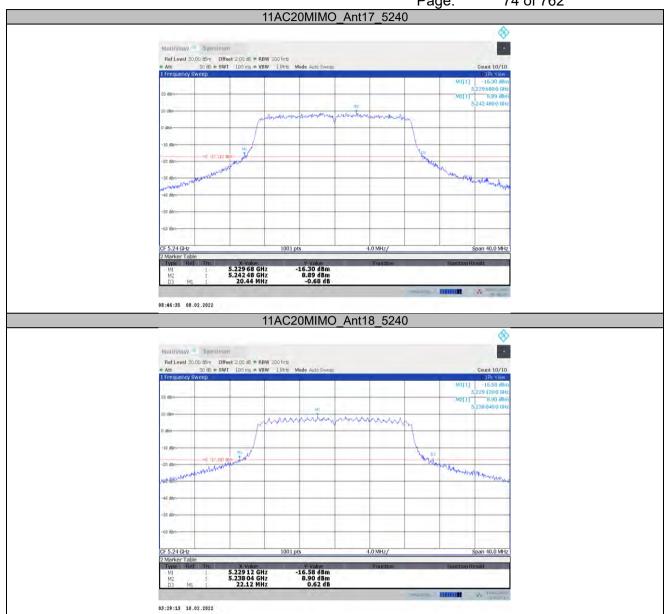
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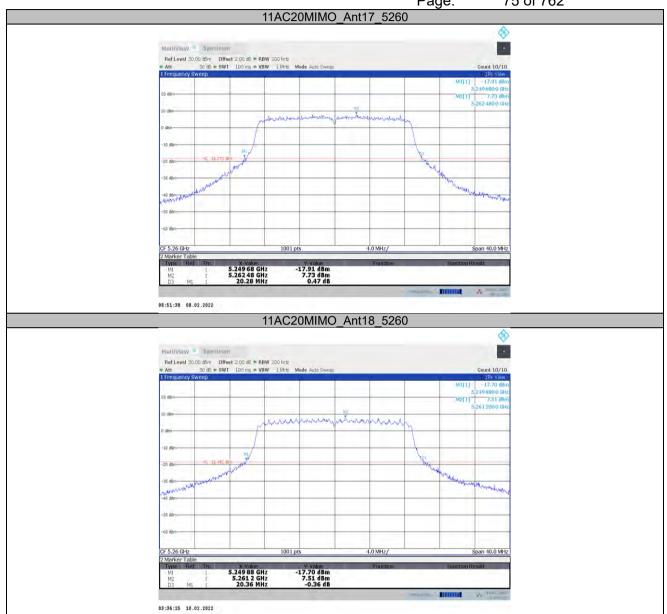
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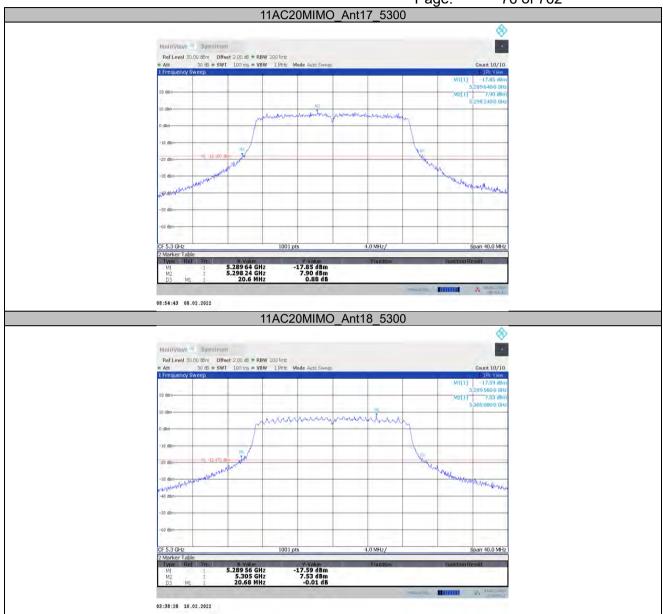
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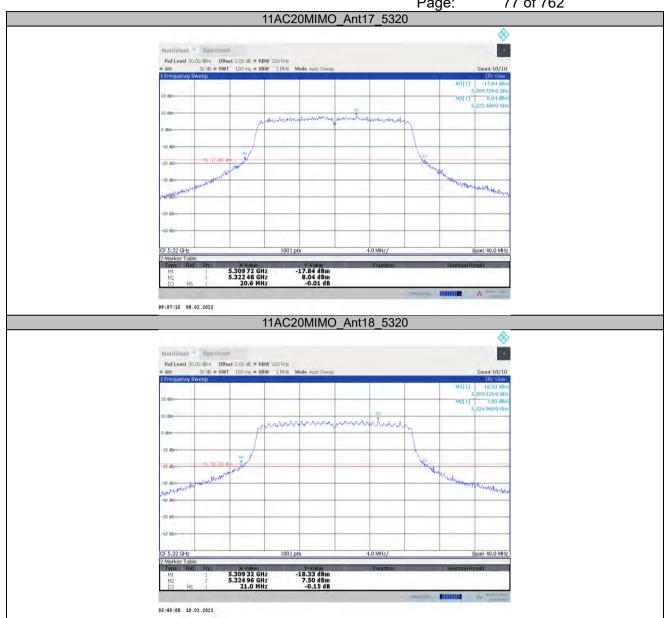
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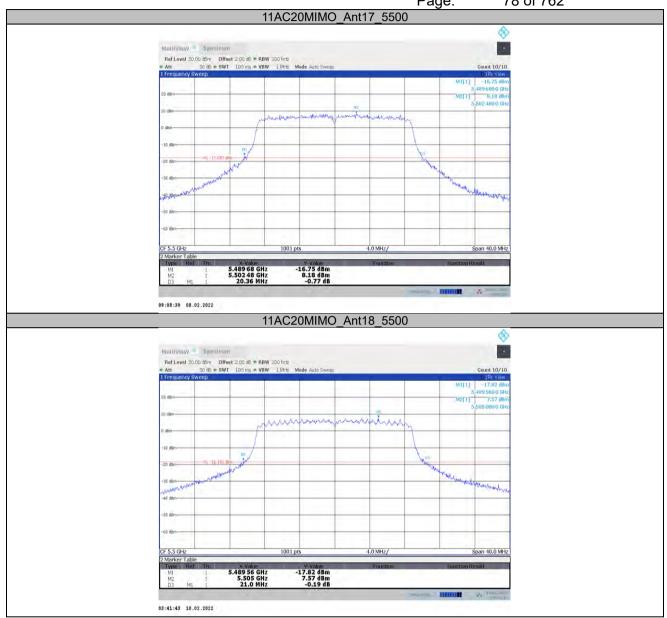
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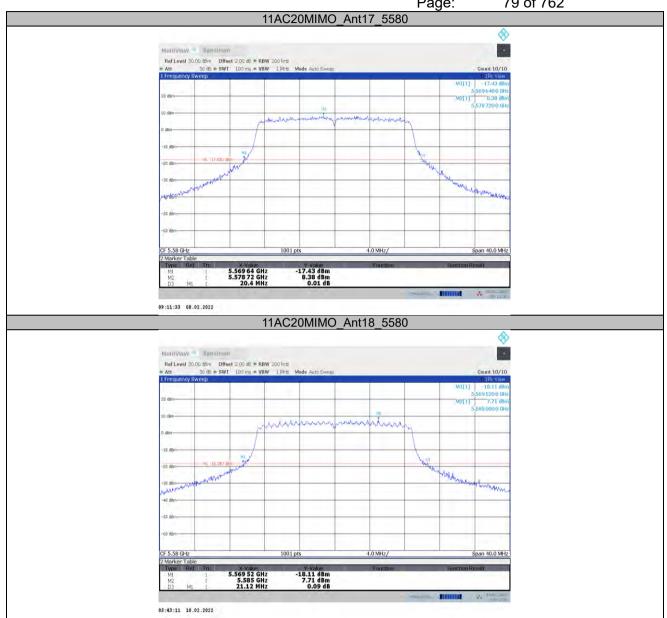
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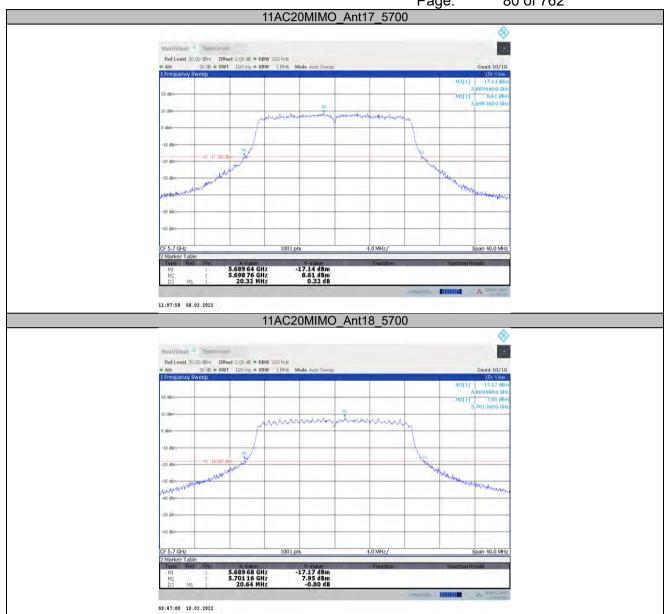
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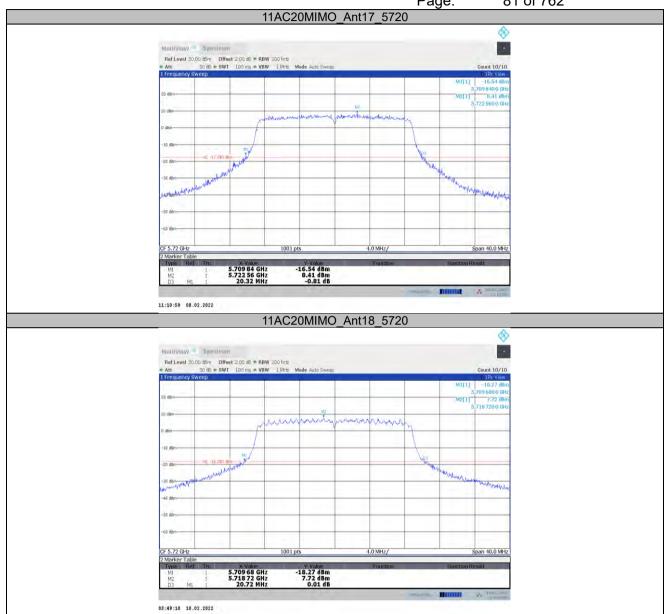
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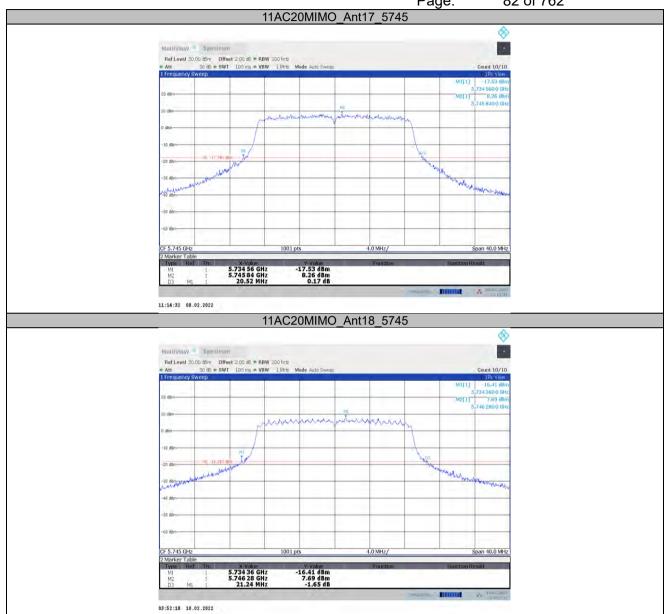
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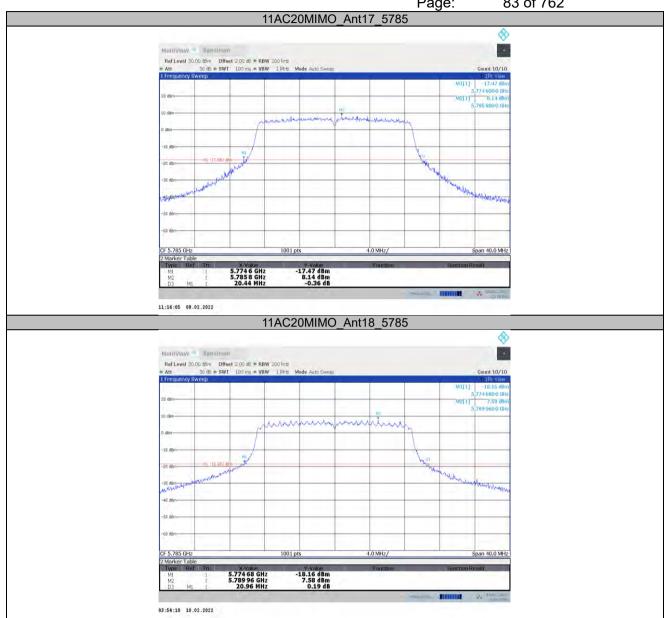
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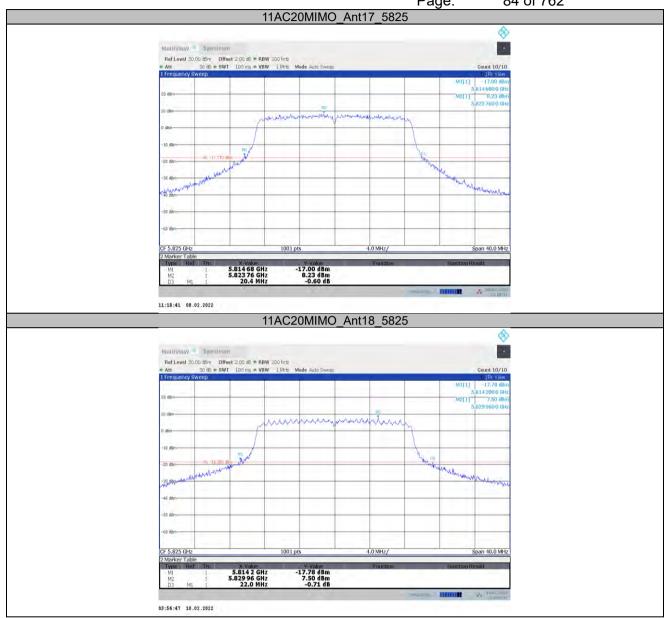
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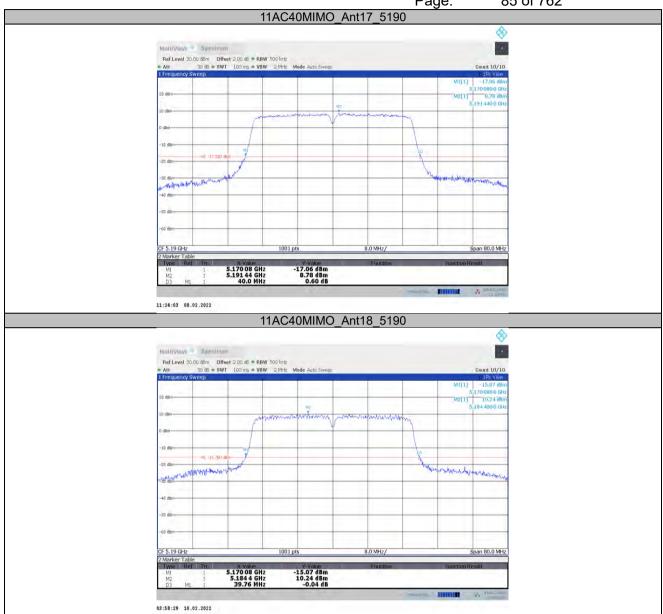
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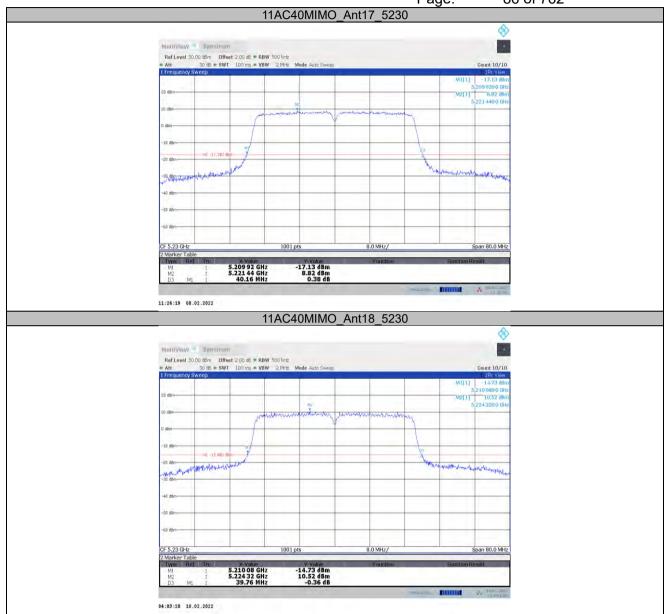
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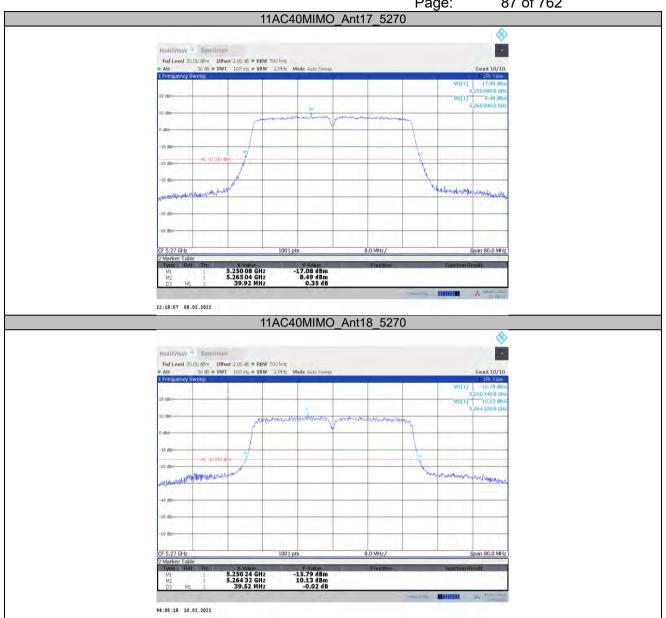
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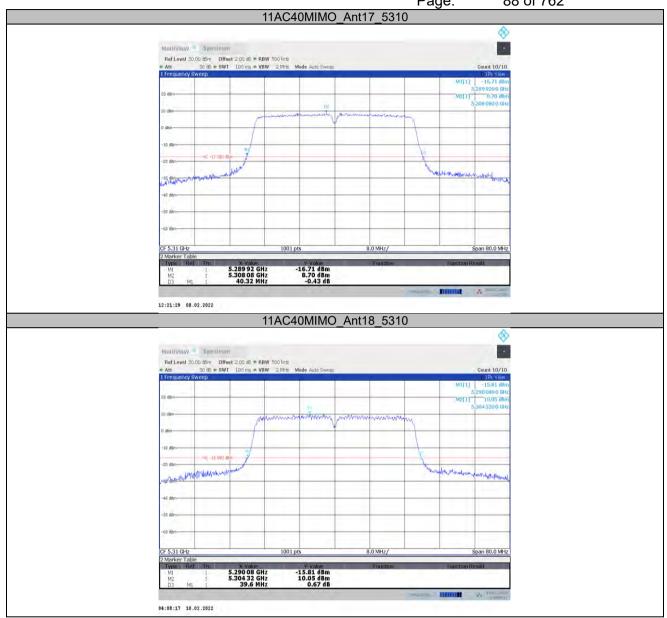
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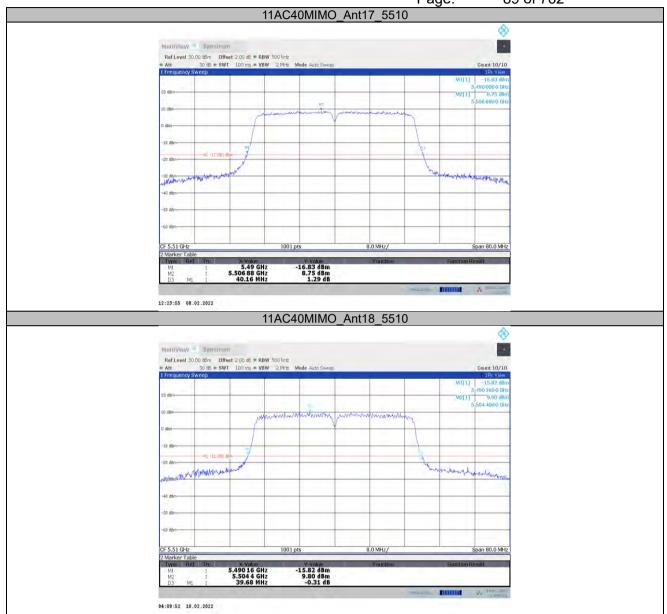
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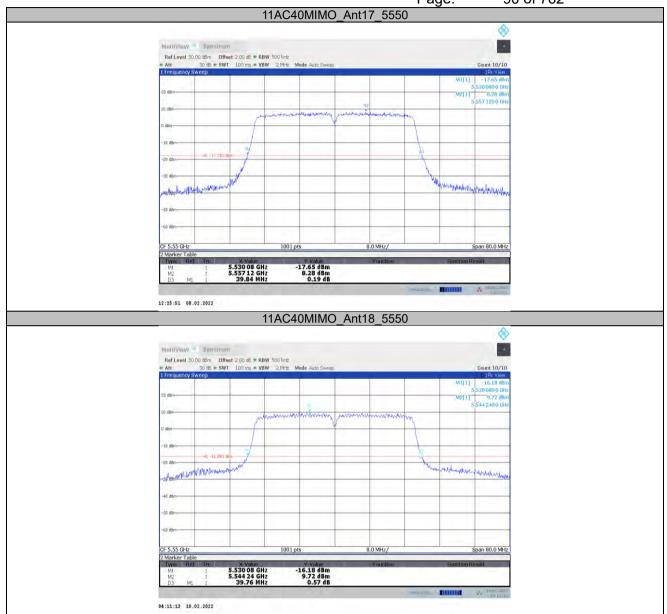
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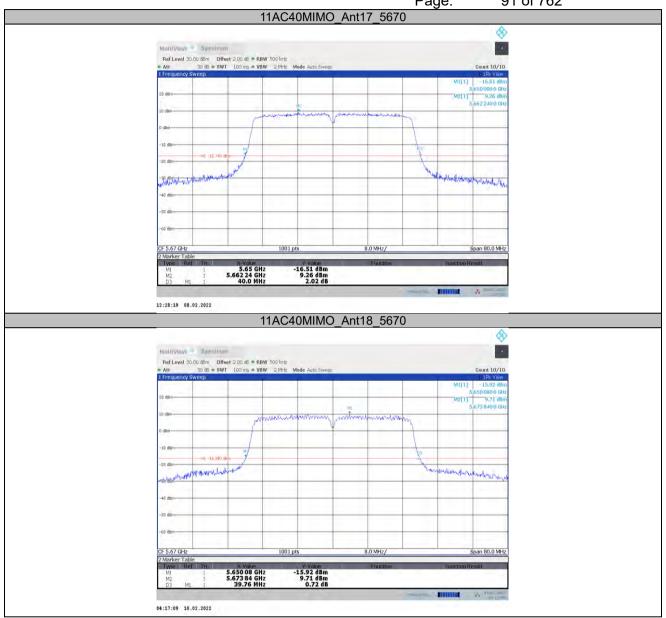
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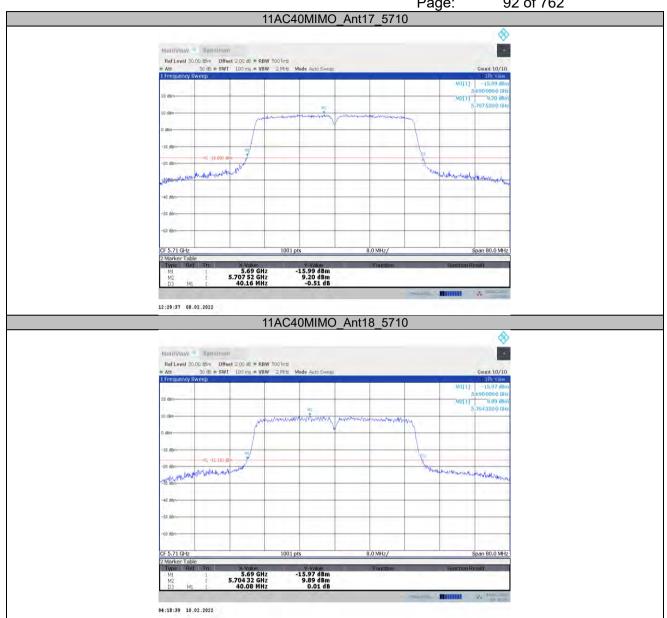
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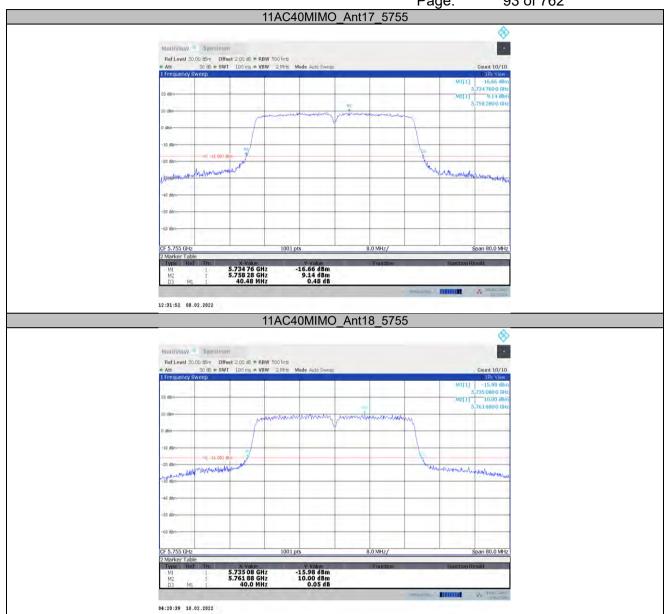
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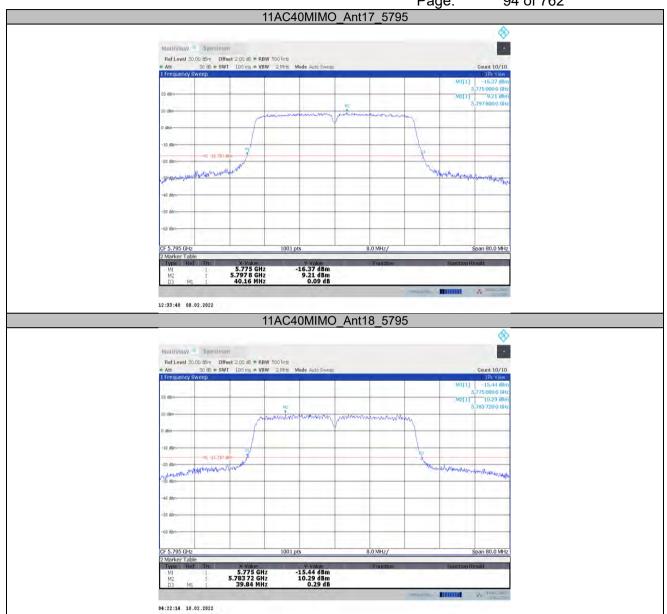
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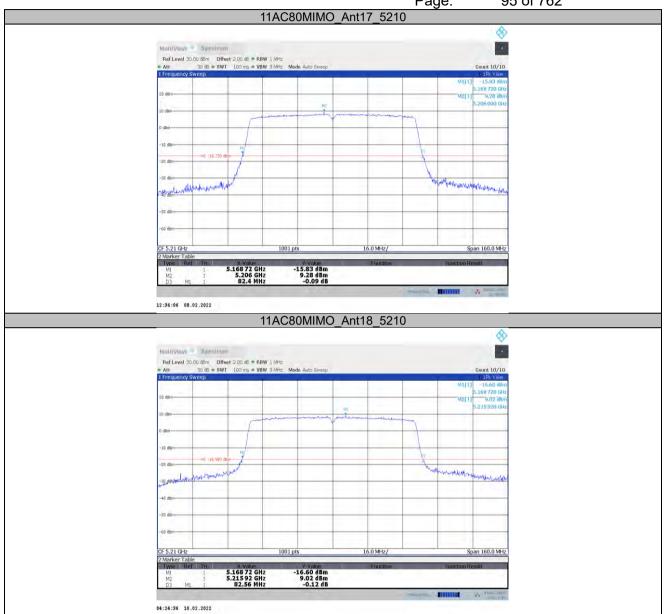
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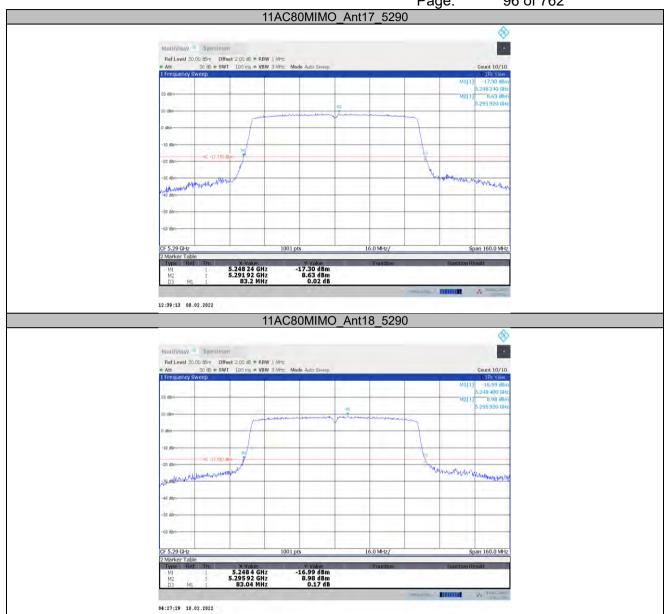
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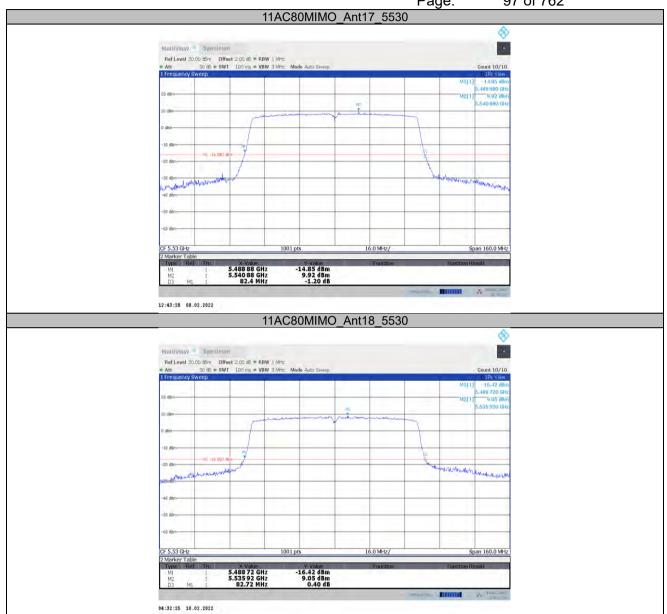
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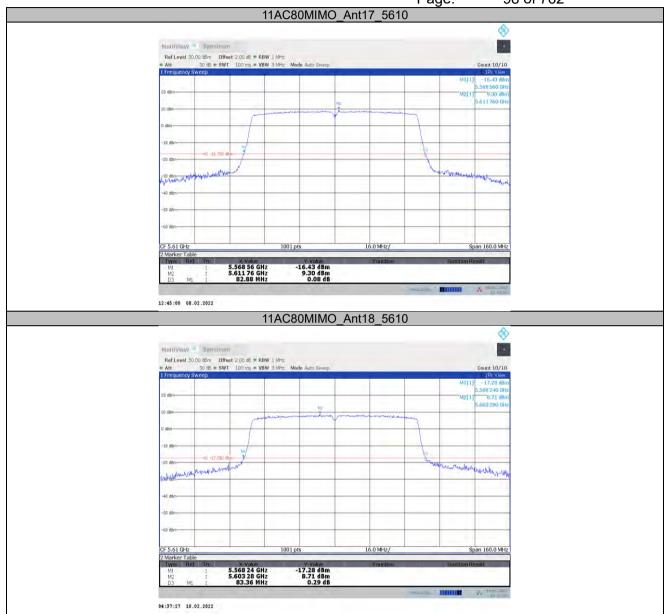
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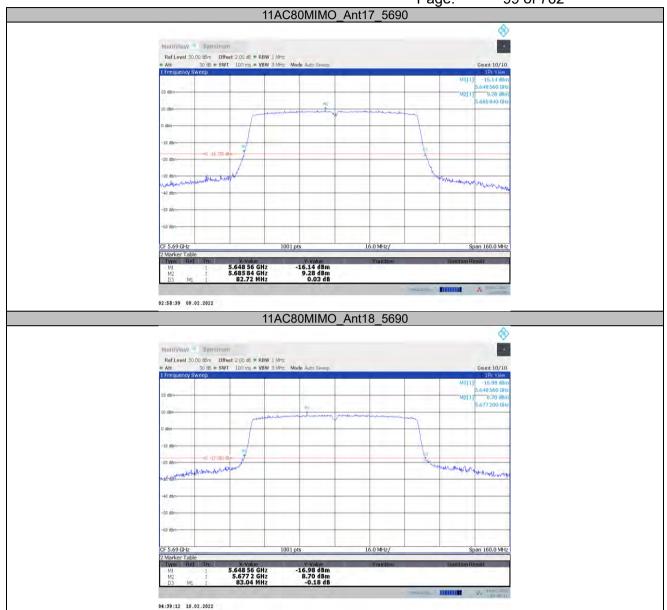
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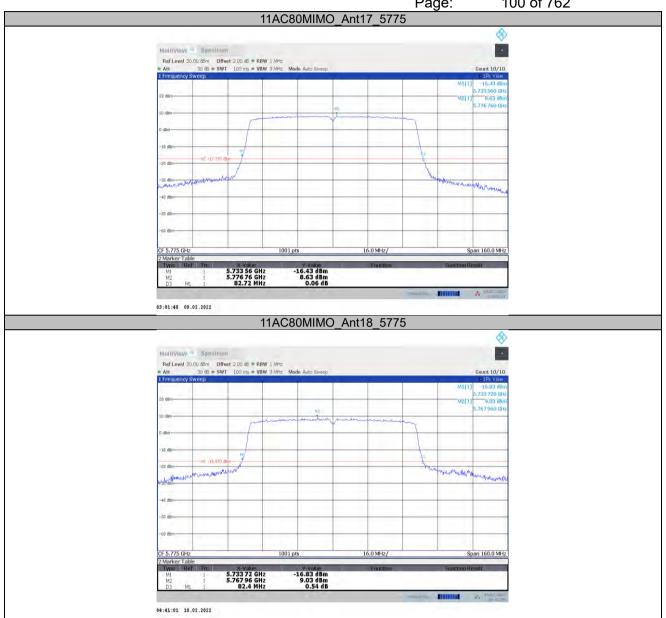
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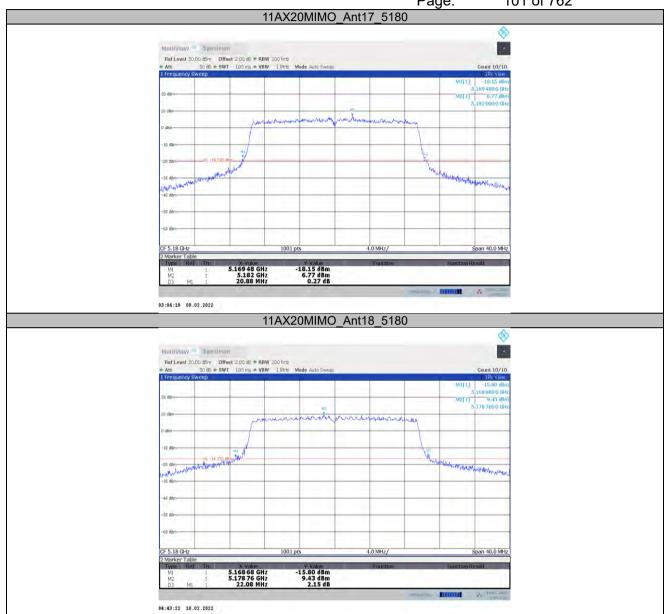
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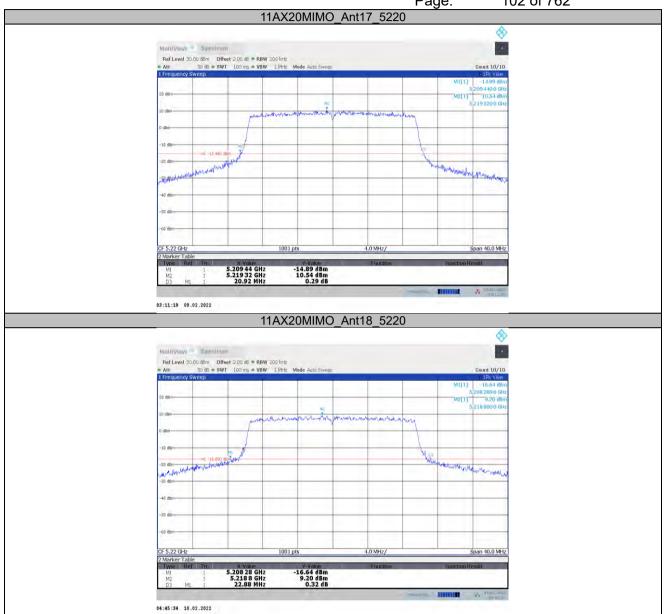
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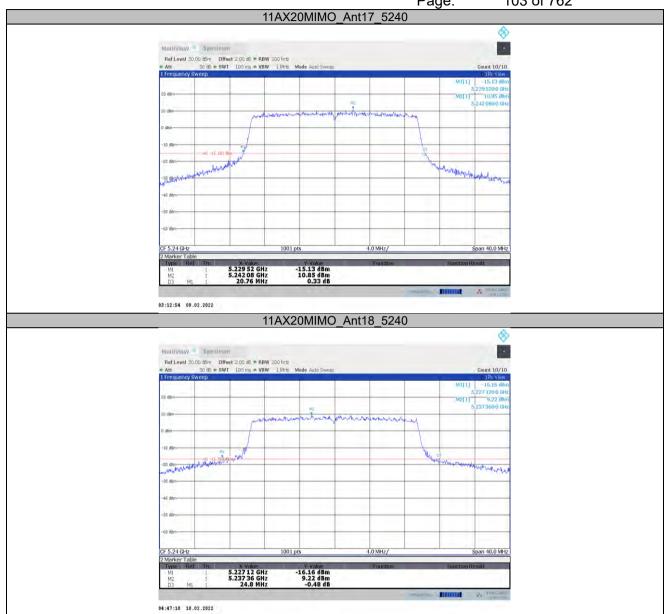
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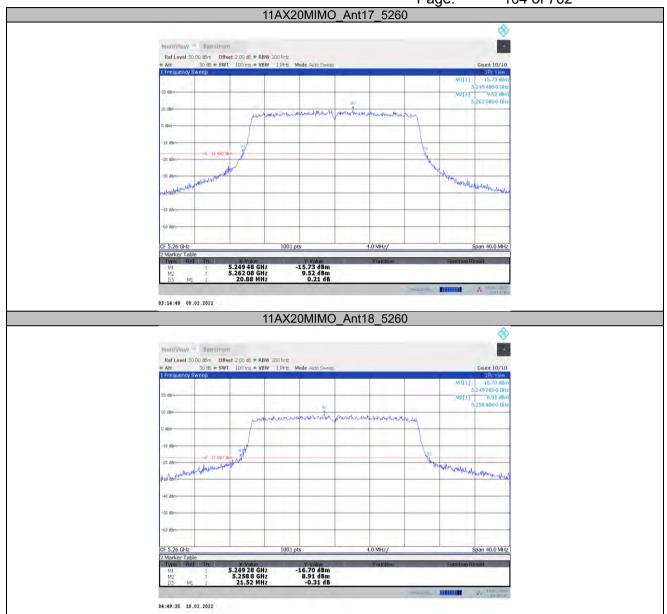
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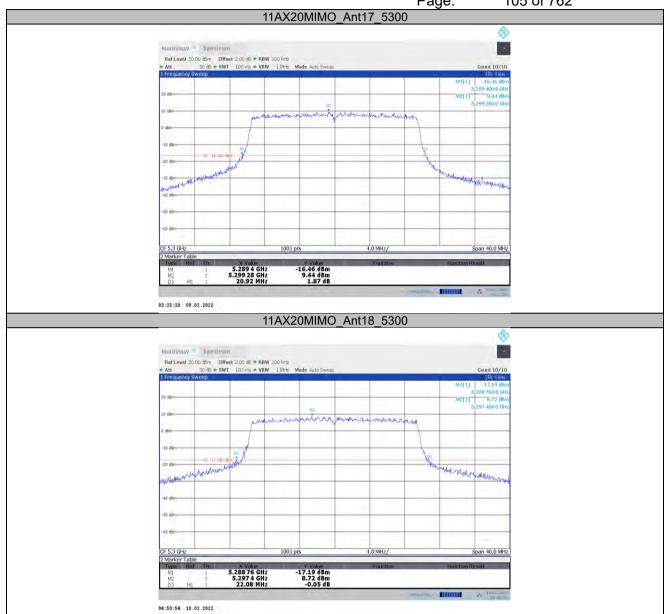
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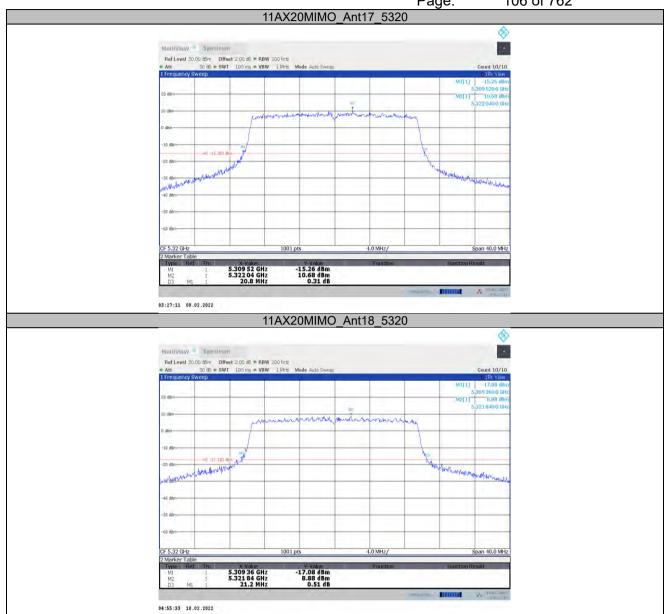
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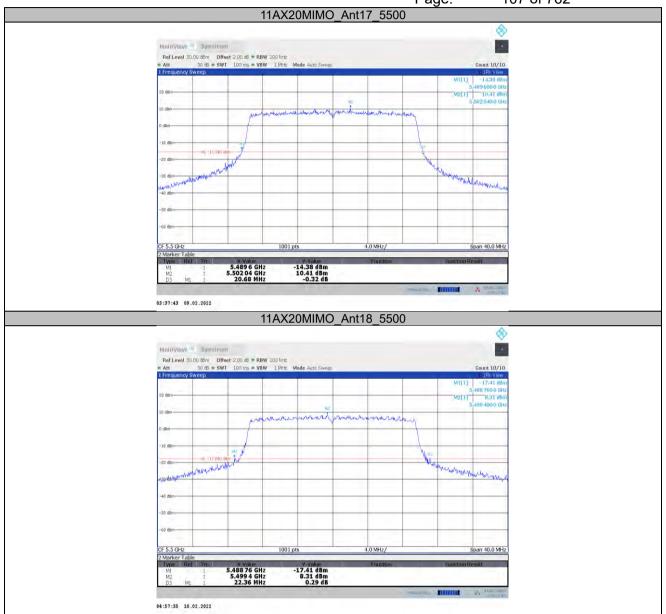
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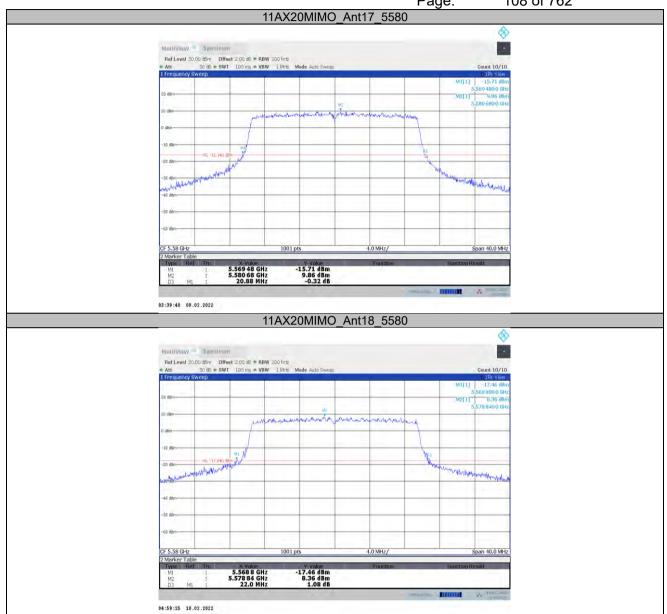
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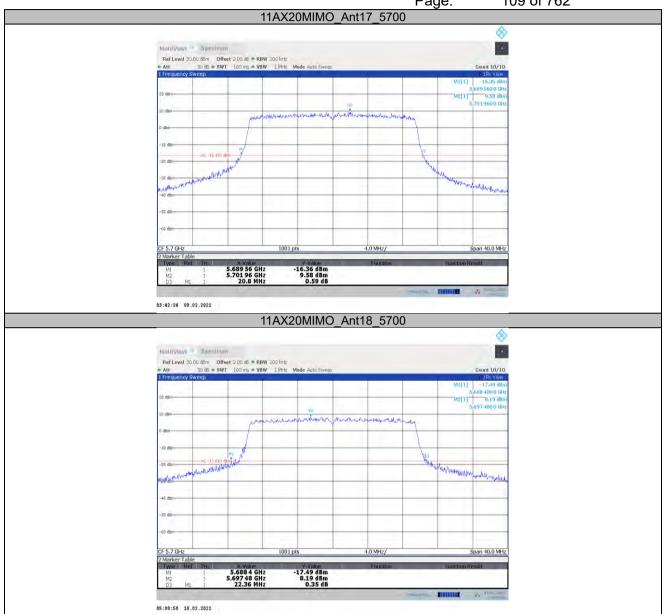
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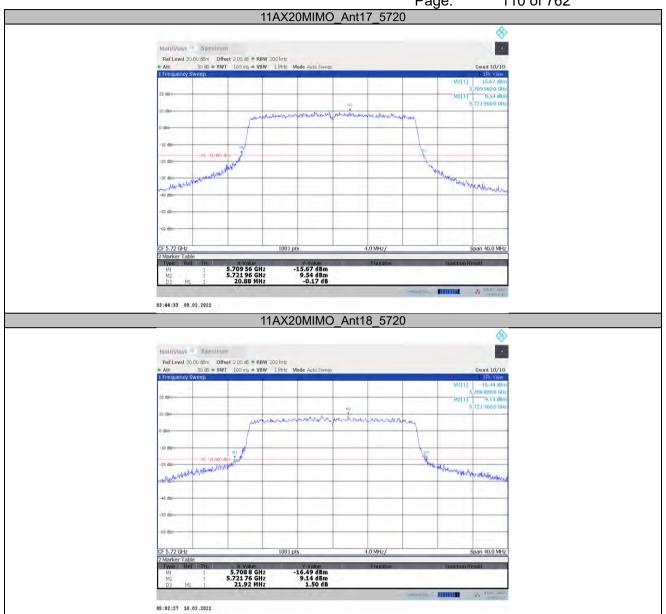
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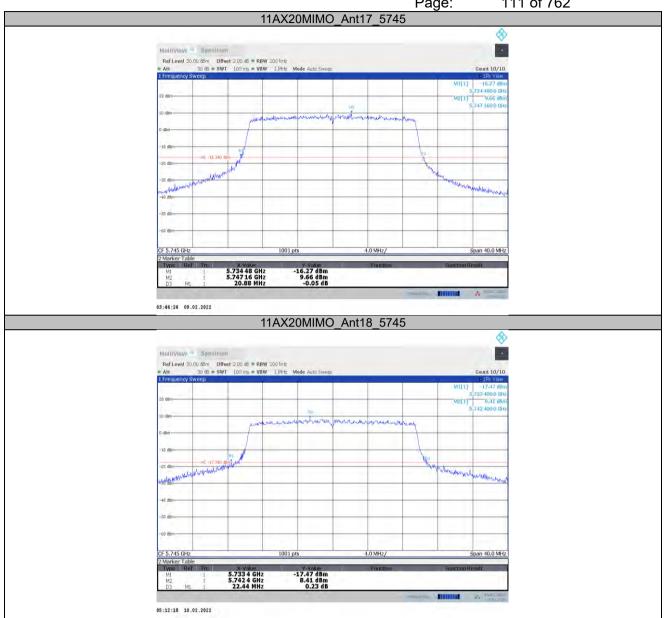
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