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Rev.: 01  
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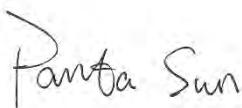
## TEST REPORT

**Application No.:** SEWM2206000064RG  
**Applicant:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Applicant:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE  
TSIMSHATSUI KL, HONG KONG, CHINA  
**Manufacturer:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Manufacturer:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE  
TSIMSHATSUI KL, HONG KONG, CHINA  
**EUT Description:** Smart Phone  
**Model No.:** SL201D  
**Trade Mark:** bounce  
**FCC ID:** 2A28USL201D  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** 2022/06/06  
**Date of Test:** 2022/06/12 to 2022/07/15  
**Date of Issue:** 2022/07/20

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* 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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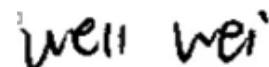
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## 1 Version

<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2022/07/20		Original

<b>Prepared By</b>	 (King-p Li) / Test Engineer
<b>Checked By</b>	 (Well Wei) / Reviewer



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## 2 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules No.	Test Requirements	Test Result	Result		
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS		
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	Reporting only		
	Band II-A	15.407(a)(2)					
	Band II-C	15.407(a)(2)					
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS		
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	Reporting only		
	Band II-A						
	Band II-C						
	Band III						
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	Clause 4.3	Reporting only		
Maximum Conducted Output Power	Band I	15.407(a)	< 250mW	Clause 4.4	PASS		
	Band II-A	15.407(a)(2)	<MIN{250mW,11dBm+10*Ig(EBW)}				
	Band II-C						
	Band III	15.407(a)(3)	< 1W				
Maximum Power Spectral Density	Band I	15.407(a)	<11dBm/MHz	Clause 4.8	PASS		
	Band II-A	15.407(a)(2)	<11dBm/MHz				
	Band II-C						
	Band III	15.407(a)(3)	<30dBm/500KHz				
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	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).	Clause 4.9	PASS		
	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).		PASS		

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	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) 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 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).		PASS
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
<p>Note 1 :</p> <p>Band I: 5150-5250MHz    Band II-A: 5250-5350MHz    Band II-C: 5470-5725MHz    Band III: 5725-5850MHz</p>					



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## 3 General Information

### 3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

### 3.2 Test Location

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

### 3.3 Test Facility

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

#### • A2LA (Certificate No. 6336.01)

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

#### • Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

#### • FCC –Designation Number: CN1312

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

Designation Number: CN1312.

Test Firm Registration Number: 717327

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### 3.4 General Description of EUT

EUT Description:	Smart Phone	
Model No.:	SL201D	
Trade Mark:	bounce	
Hardware Version:	1.0	
Software Version:	SL201DD10005	
IMEI:	RF Conducted	355581700003452 355581700003401
	RSE & AC power line	355581700005390
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz	
	5250MHz to 5350MHz	
	5470MHz to 5725MHz	
	5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)
	80MHz:	802.11ac(VHT80)
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	5150MHz to 5250MHz: -0.8dBi(Ant3);	
	5250MHz to 5350MHz: -0.8dBi(Ant3);	
	5470MHz to 5725MHz: -0.8dBi(Ant3);	
	5725MHz to 5850MHz: -0.8dBi(Ant3);	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a/n/ac
	<input type="checkbox"/> MIMO	CDD: 802.11a/n/ac: Tx & Rx
		STBC: 802.11n/ac: Tx & Rx
		TXBF: 802.11n/ac: Tx & Rx
RF Cable:	<input type="checkbox"/> Diversity 802.11a: Tx & Rx	
RF Cable:	1dB	

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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 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

**For UNII Band II-A:**

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290

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**For UNII Band II-C:**

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Highest channel	5610

**For UNII Band III:**

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775

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### 3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.8

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature

### 3.6 Description of Support Units

The EUT has been tested as an independent unit.

### 3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	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 5150MHz to 5250MHz: -0.8dBi(Ant3); 5250MHz to 5350MHz: -0.8dBi(Ant3); 5470MHz to 5725MHz: -0.8dBi(Ant3); 5725MHz to 5850MHz: -0.8dBi(Ant3); (Provided by client)*.	
<i>Note: *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.</i>	
<i>Remark:</i> <i>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.</i>	



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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 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)		Limit (dBuV)
			Quasi-peak
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"><li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li><li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear 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 a 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 equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li></ol>		

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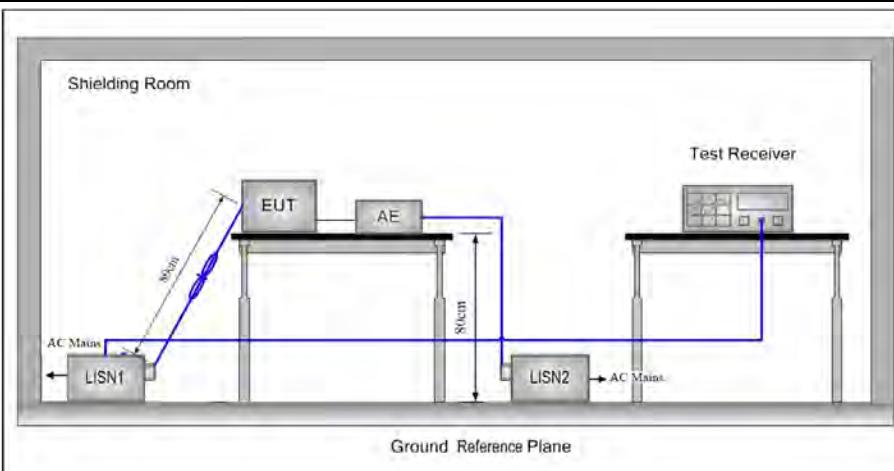
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass

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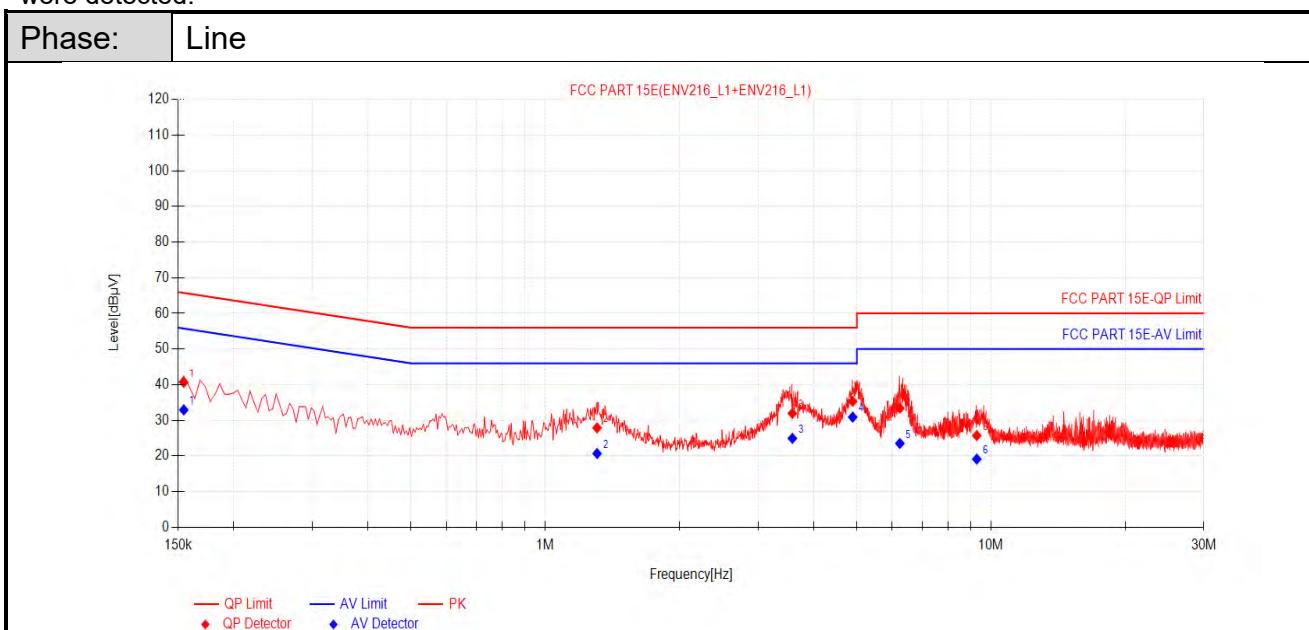
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### Measurement Data

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.



### Final 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	0.1545	10.64	30.01	40.65	65.75	25.10	22.29	32.93	55.75	22.82	PASS
2	1.3065	10.78	17.12	27.90	56.00	28.10	9.92	20.70	46.00	25.30	PASS
3	3.5835	10.71	21.24	31.95	56.00	24.05	14.24	24.95	46.00	21.05	PASS
4	4.8930	10.64	24.69	35.33	56.00	20.67	20.26	30.90	46.00	15.10	PASS
5	6.2430	10.69	22.72	33.41	60.00	26.59	12.85	23.54	50.00	26.46	PASS
6	9.2895	10.66	15.09	25.75	60.00	34.25	8.47	19.13	50.00	30.87	PASS

### Remark:

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



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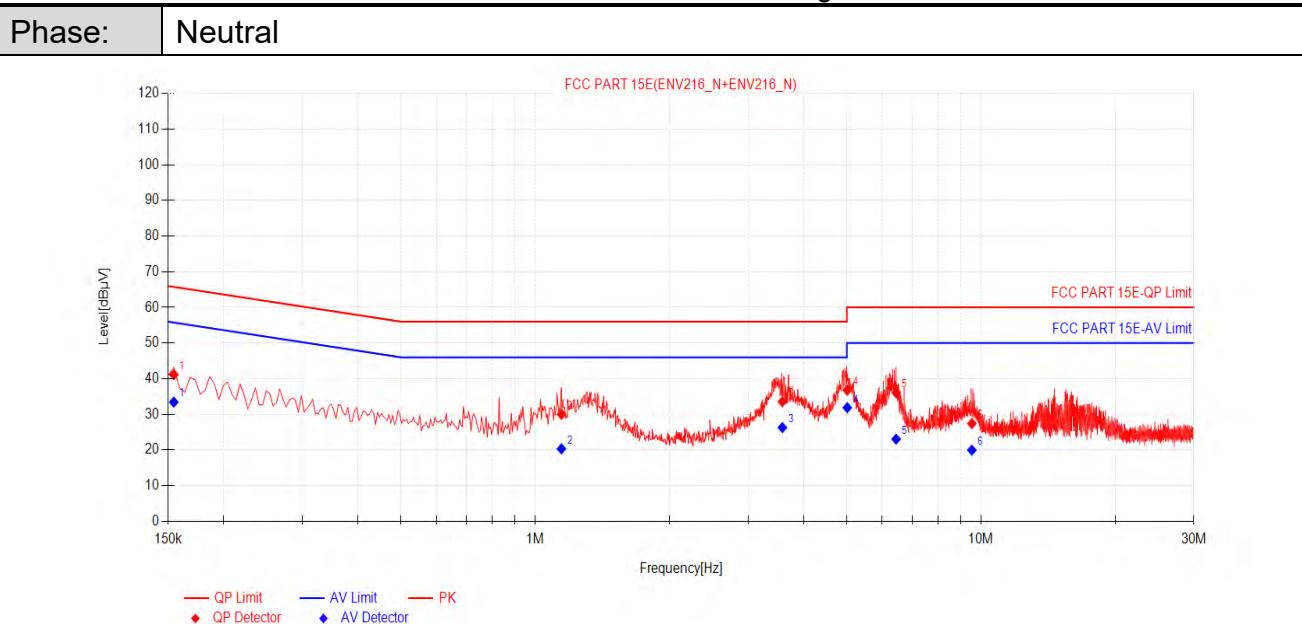
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### Final Data List

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	0.1545	10.72	30.40	41.12	65.75	24.63	22.72	33.44	55.75	22.31	PASS
2	1.1445	10.74	19.27	30.01	56.00	25.99	9.57	20.31	46.00	25.69	PASS
3	3.5835	10.68	22.89	33.57	56.00	22.43	15.61	26.29	46.00	19.71	PASS
4	5.0100	10.64	26.15	36.79	60.00	23.21	21.24	31.88	50.00	18.12	PASS
5	6.4500	10.55	25.52	36.07	60.00	23.93	12.50	23.05	50.00	26.95	PASS
6	9.5370	10.65	16.78	27.43	60.00	32.57	9.32	19.97	50.00	30.03	PASS

### Remark:

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

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## 4.3 Duty Cycle

The detailed test data see: **Appendix**

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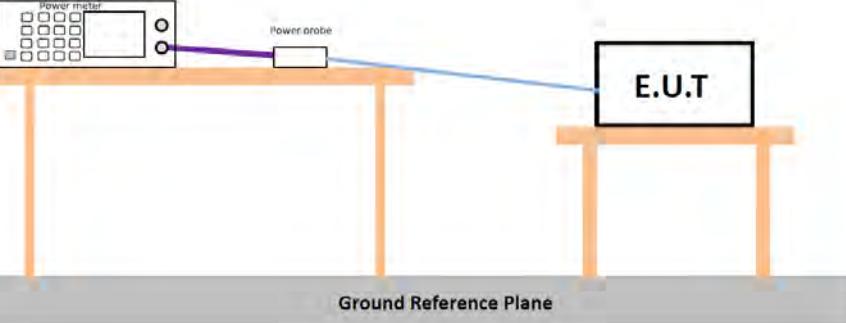
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## 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section11.9.2.3	
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5470-5725MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		

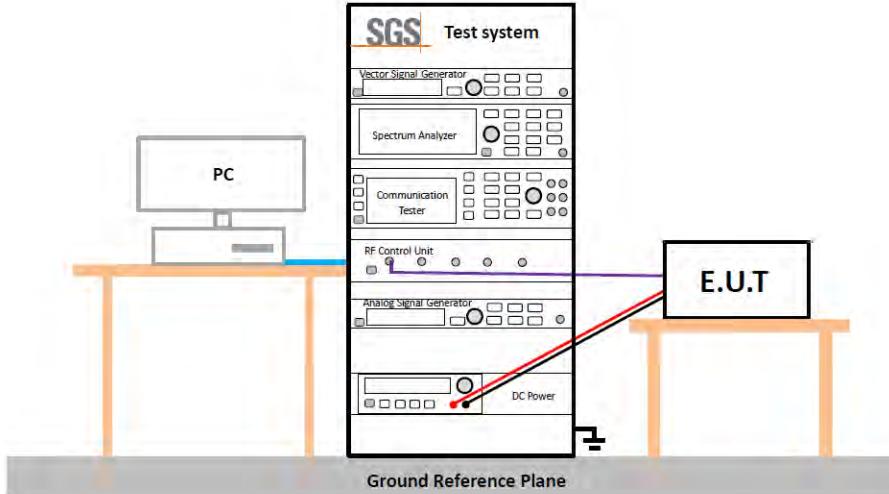
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## 4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	
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:	Pass
The detailed test data see: <b>Appendix</b>	

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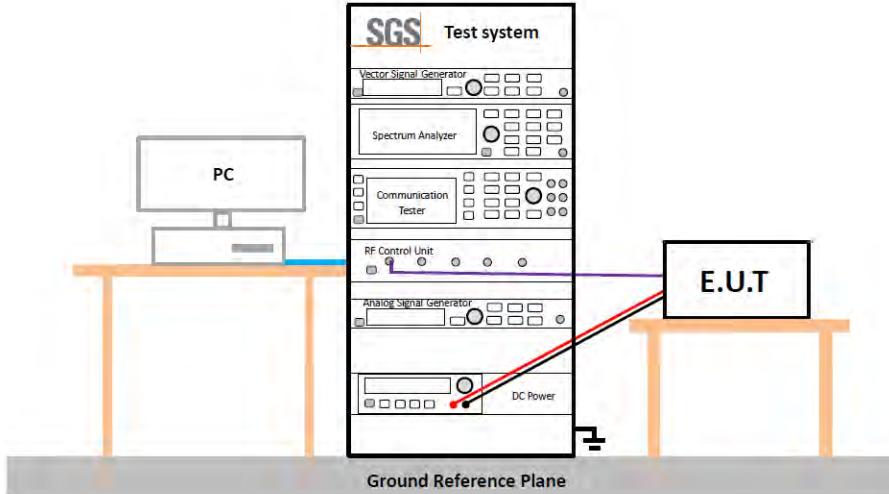
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## 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2	
Test Setup:		
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	
The detailed test data see: <b>Appendix</b>		

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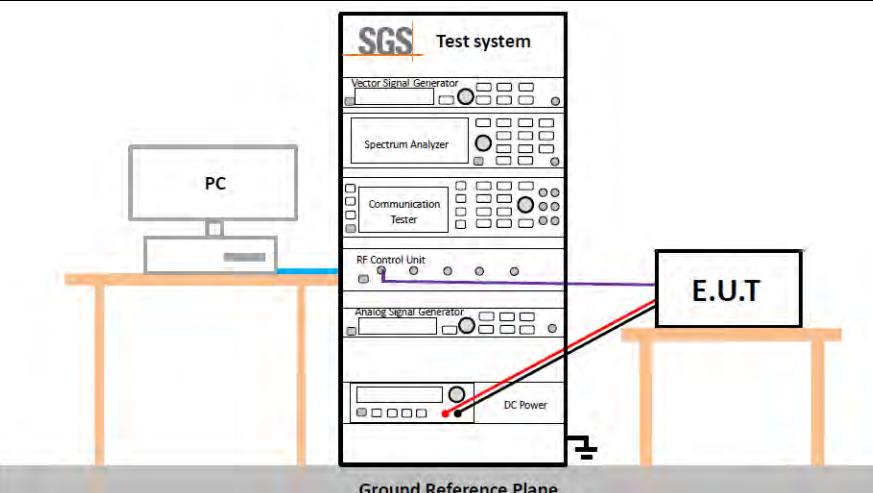
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## 4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
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:	Pass
The detailed test data see: <b>Appendix</b>	

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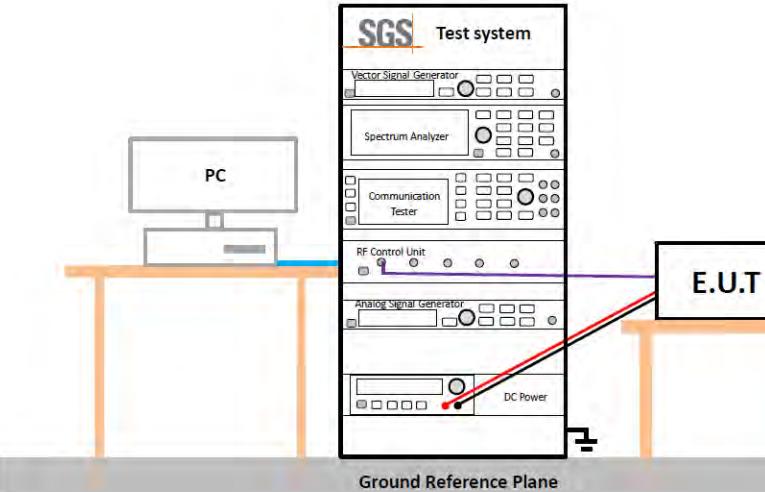


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## 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)										
Test Method:	ANSI C63.10: 2013 Section 11.10.2 KDB 789033 D02 v02r01, Section F.										
Test Setup:	 <p>The diagram illustrates the test setup. A PC is connected to a vertical stack of test equipment. From top to bottom, the equipment includes: Vector Signal Generator, Spectrum Analyzer, Communication Tester, RF Control Unit, Analog Signal Generator, and DC Power. A red line connects the RF Control Unit to a black box labeled 'E.U.T' (Equipment Under Test), which is also connected to the DC Power source. The entire setup is placed on a table, with a grey ground reference plane underneath.</p>										
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:	<table border="1"> <thead> <tr> <th>Frequency Band</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>5150-5250MHz</td> <td>The power spectral density less than 11dBm/1MHz</td> </tr> <tr> <td>5250-5350MHz</td> <td>The power spectral density less than 11dBm/1MHz</td> </tr> <tr> <td>5470-5725MHz</td> <td>The power spectral density less than 11dBm/1MHz</td> </tr> <tr> <td>5725-5850MHz</td> <td>The power spectral density less than &lt;30dBm/500KHz</td> </tr> </tbody> </table>	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
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: <b>Appendix</b>											

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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 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:	

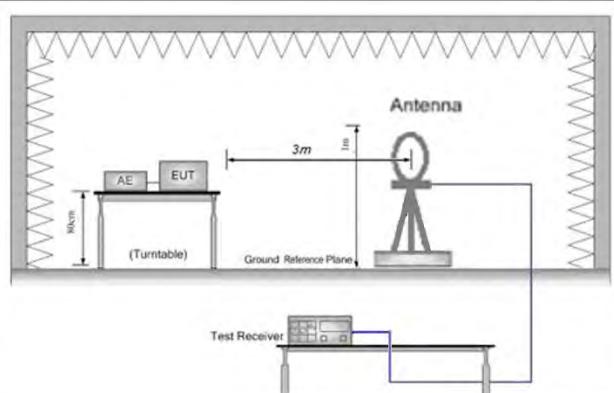


Figure 1. 9kHz to 30MHz

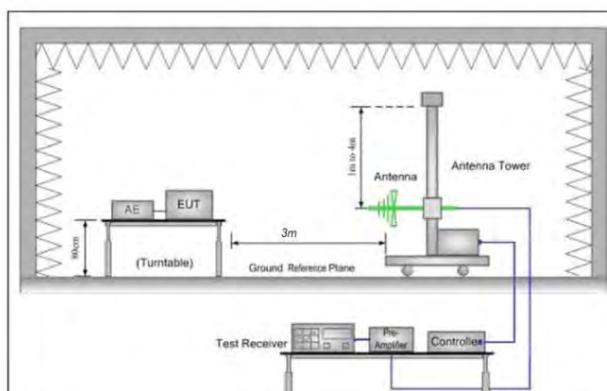


Figure 1. 30MHz to 1GHz

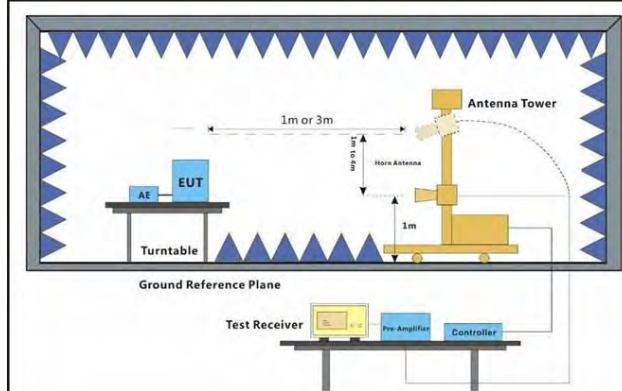


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (Distance from antenna to EUT is 1m for measurements &gt;18GHz).</li> <li>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.</li> <li>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.</li> <li>For each suspected emission, the EUT was arranged to its worst case and</li> </ol>
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	<p>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.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Z axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>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</p> <p>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.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \times \log(3/1) = 9.54</math> dB.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> [3 *RBW]</li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq</math> (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
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: <b>Appendix</b>	

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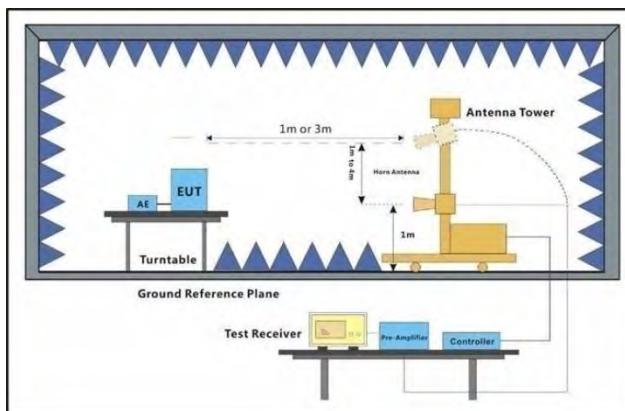
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## 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

### Test Setup:



Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>Test the EUT in the outermost channels.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case.</li> </ol>
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	i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"><li>• RBW = 120 kHz</li><li>• VBW = 300 kHz</li><li>• Detector = Peak</li><li>• Trace mode = max hold</li></ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"><li>• RBW = 1 MHz</li><li>• VBW <math>\geq</math> 3 MHz</li><li>• Detector = Peak</li><li>• Sweep time = auto</li><li>• Trace mode = max hold</li></ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"><li>• RBW = 1 MHz</li><li>• VBW <math>\geq</math> [3 *RBW]</li><li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq</math> (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li><li>• Sweep time = auto</li><li>• Perform a trace average of at least 100 traces.</li></ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
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: <b>Appendix</b>	

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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:  
 The  $U_{lab}$  (lab Uncertainty) is less than  $U_{cispri/ETSI}$  (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					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal generator	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15

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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	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	Ant3	5180	25.48	5167.08	5192.56	
		5220	26.32	5206.92	5233.24	
		5240	24.44	5228.40	5252.84	
		5260	24.44	5247.52	5271.96	
		5300	25.76	5287.56	5313.32	
		5320	27.60	5307.44	5335.04	
		5500	23.76	5488.36	5512.12	
		5580	24.52	5568.32	5592.84	
		5700	30.44	5685.40	5715.84	
		5745	28.20	5731.24	5759.44	
		5785	27.16	5771.08	5798.24	
		5825	29.16	5810.56	5839.72	
		5180	21.08	5169.20	5190.28	
		5220	22.12	5208.36	5230.48	
		5240	24.12	5227.28	5251.40	
11n20SISO	Ant3	5260	23.20	5248.16	5271.36	
		5300	23.16	5288.16	5311.32	
		5320	22.96	5308.28	5331.24	
		5500	24.36	5487.20	5511.56	
		5580	24.00	5568.20	5592.20	
		5700	29.40	5685.32	5714.72	
		5745	26.84	5731.68	5758.52	
		5785	26.00	5772.16	5798.16	
		5825	26.16	5811.48	5837.64	
		5190	42.32	5169.04	5211.36	Reporting only
		5230	42.40	5209.04	5251.44	
		5270	42.24	5249.04	5291.28	
		5310	42.48	5288.88	5331.36	
		5510	41.60	5489.04	5530.64	
		5550	41.36	5529.20	5570.56	
		5670	53.92	5640.96	5694.88	
		5755	47.04	5732.68	5779.72	
		5795	46.96	5772.84	5819.80	
		5180	22.84	5167.88	5190.72	
		5220	24.72	5206.44	5231.16	
		5240	24.76	5228.04	5252.80	
11ac20SISO	Ant3	5260	25.28	5247.32	5272.60	
		5300	23.12	5288.08	5311.20	
		5320	25.64	5307.60	5333.24	
		5500	23.40	5488.16	5511.56	
		5580	25.76	5567.92	5593.68	
		5700	27.96	5685.76	5713.72	
		5745	30.72	5730.08	5760.80	
		5785	27.24	5771.36	5798.60	
		5825	31.48	5808.76	5840.24	
		5190	41.20	5169.52	5210.72	
		5230	40.96	5209.52	5250.48	
		5270	41.04	5249.44	5290.48	
		5310	41.04	5289.44	5330.48	
		5510	41.20	5489.52	5530.72	
		5550	41.36	5529.36	5570.72	
		5670	42.00	5649.44	5691.44	

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		5755	44.00	5734.20	5778.20	
		5795	41.60	5774.12	5815.72	
11ac80SISO	Ant3	5210	81.60	5169.36	5250.96	
		5290	81.28	5249.52	5330.80	
		5530	81.28	5489.52	5570.80	
		5610	84.96	5569.36	5654.32	
		5775	86.24	5733.40	5819.64	

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## Test Graphs



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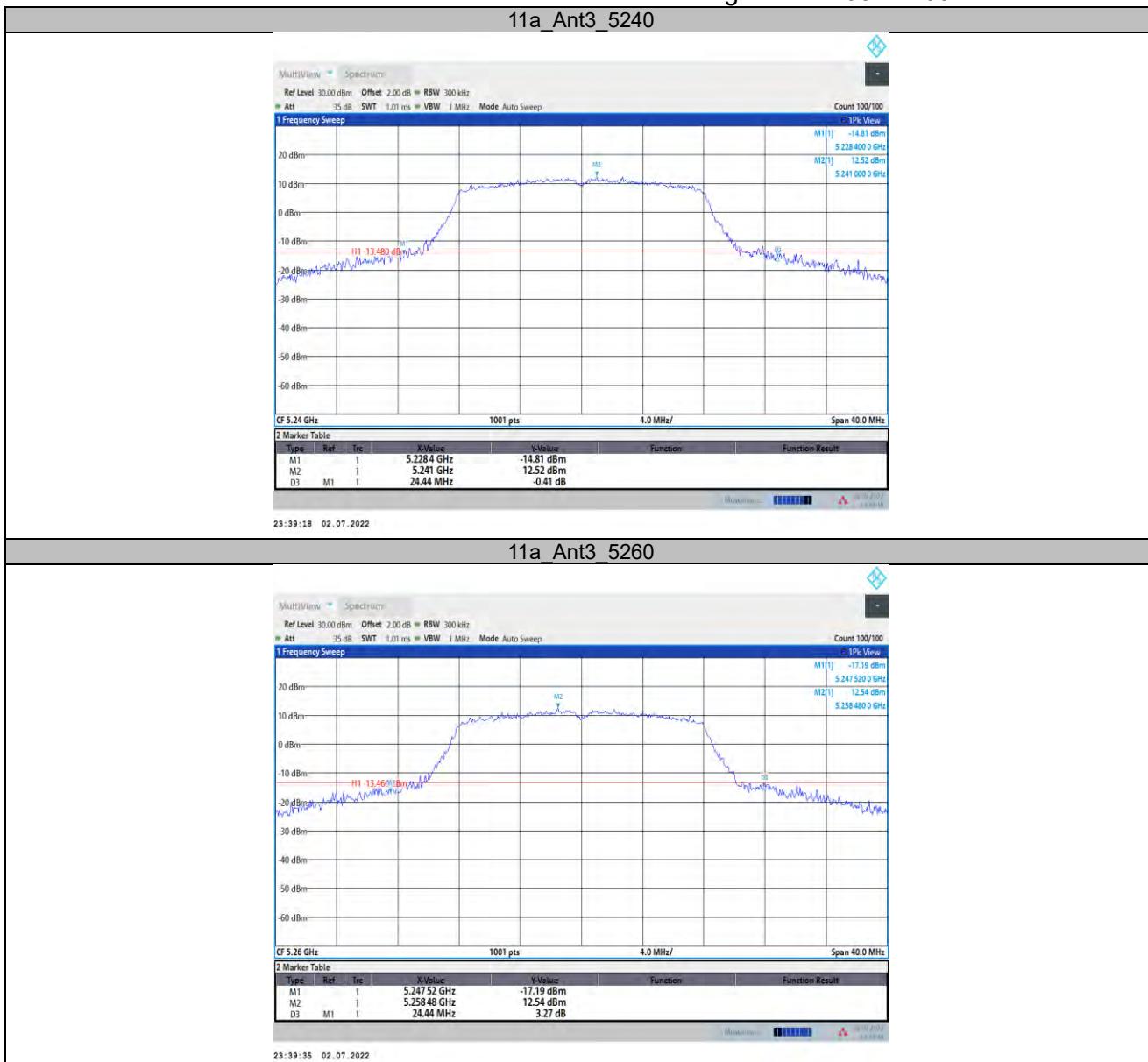


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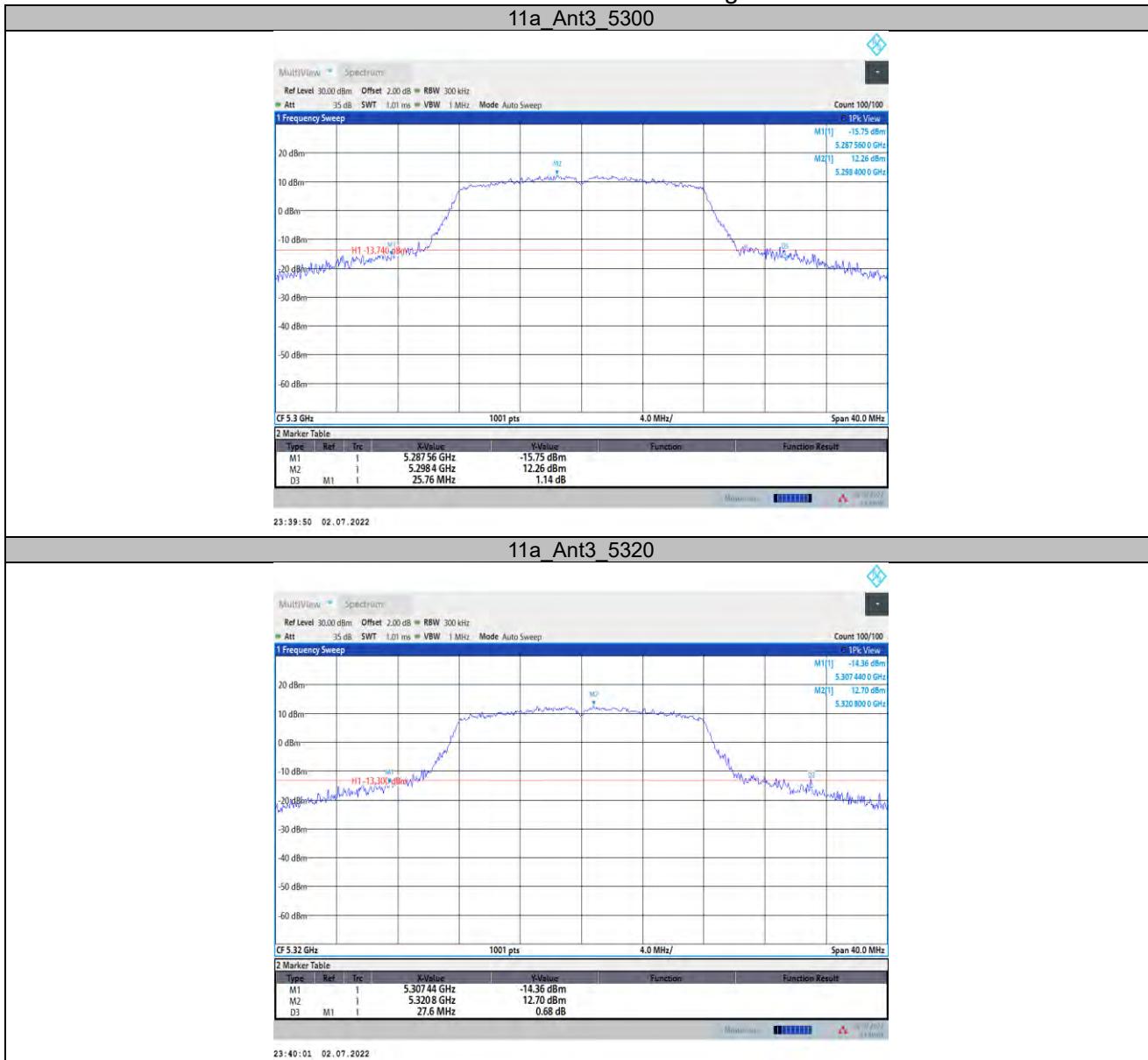


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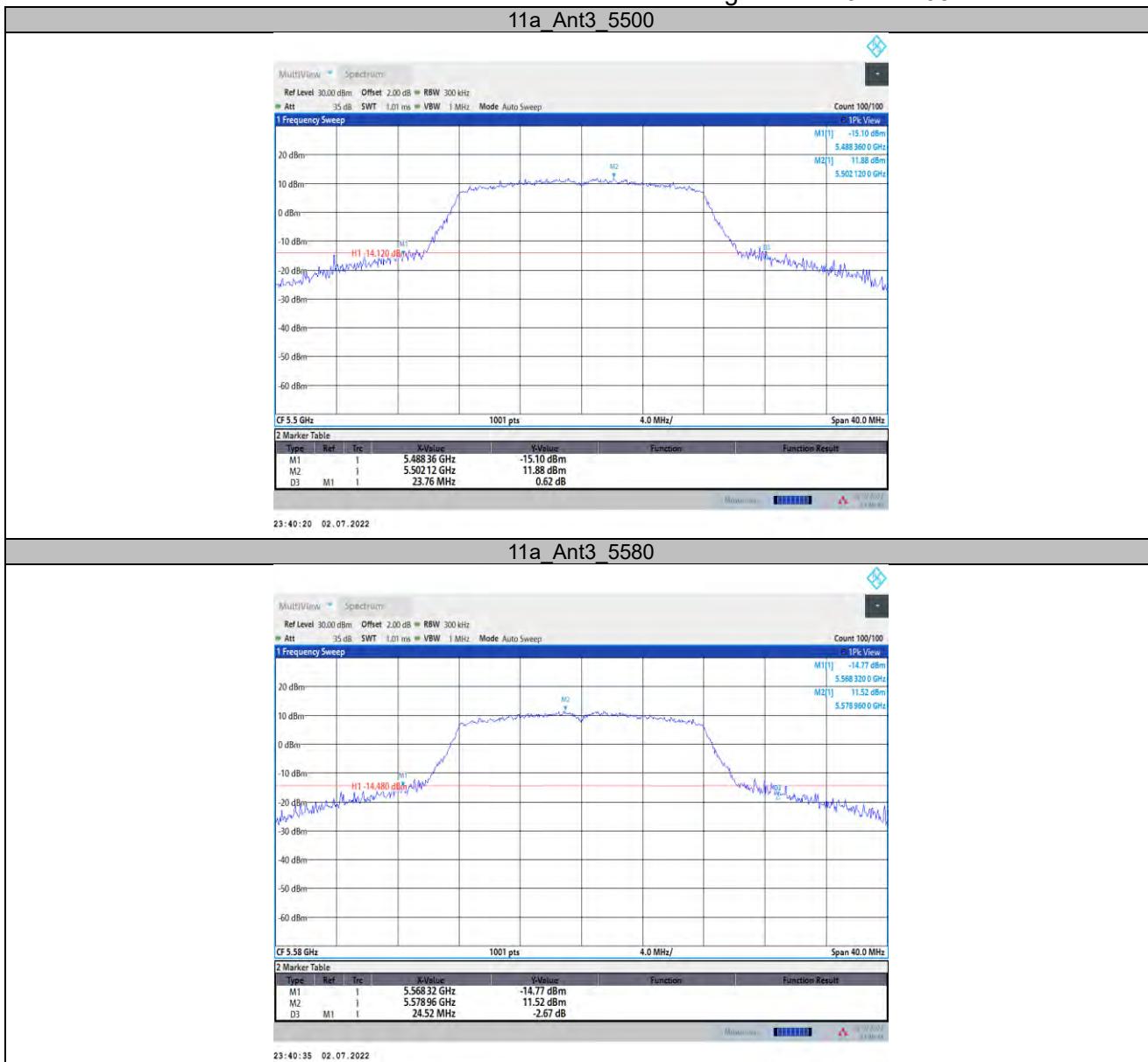


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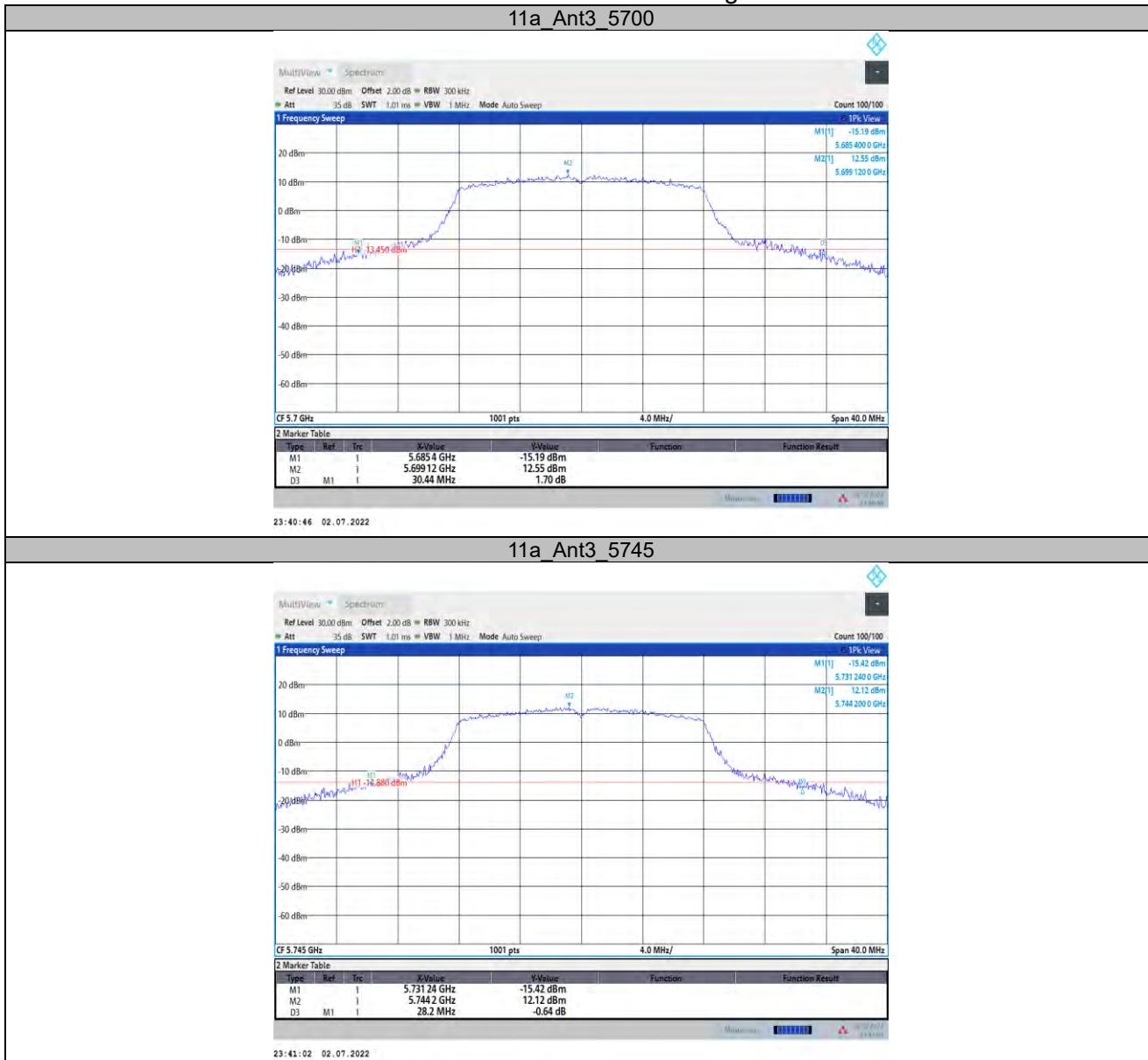


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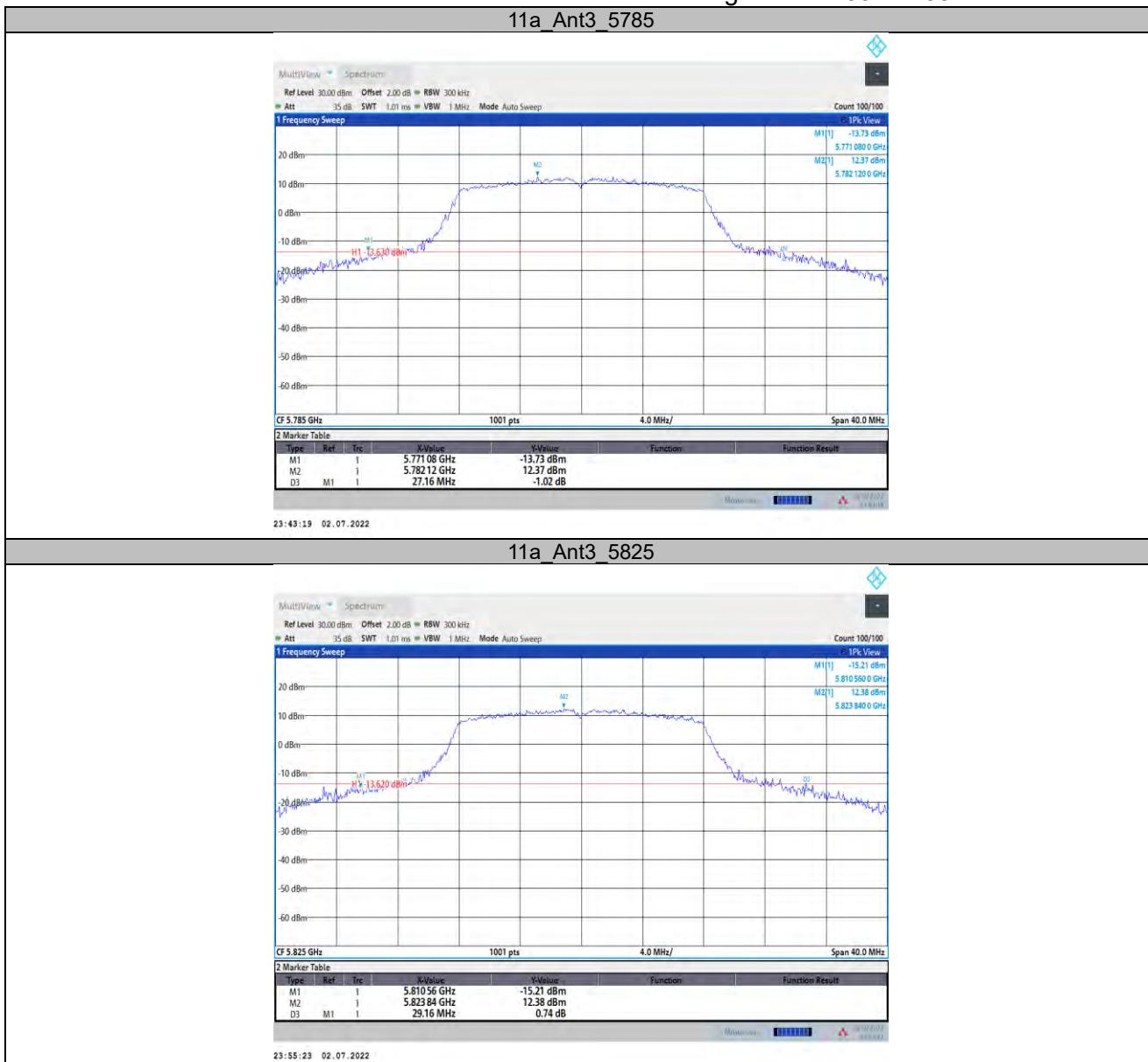


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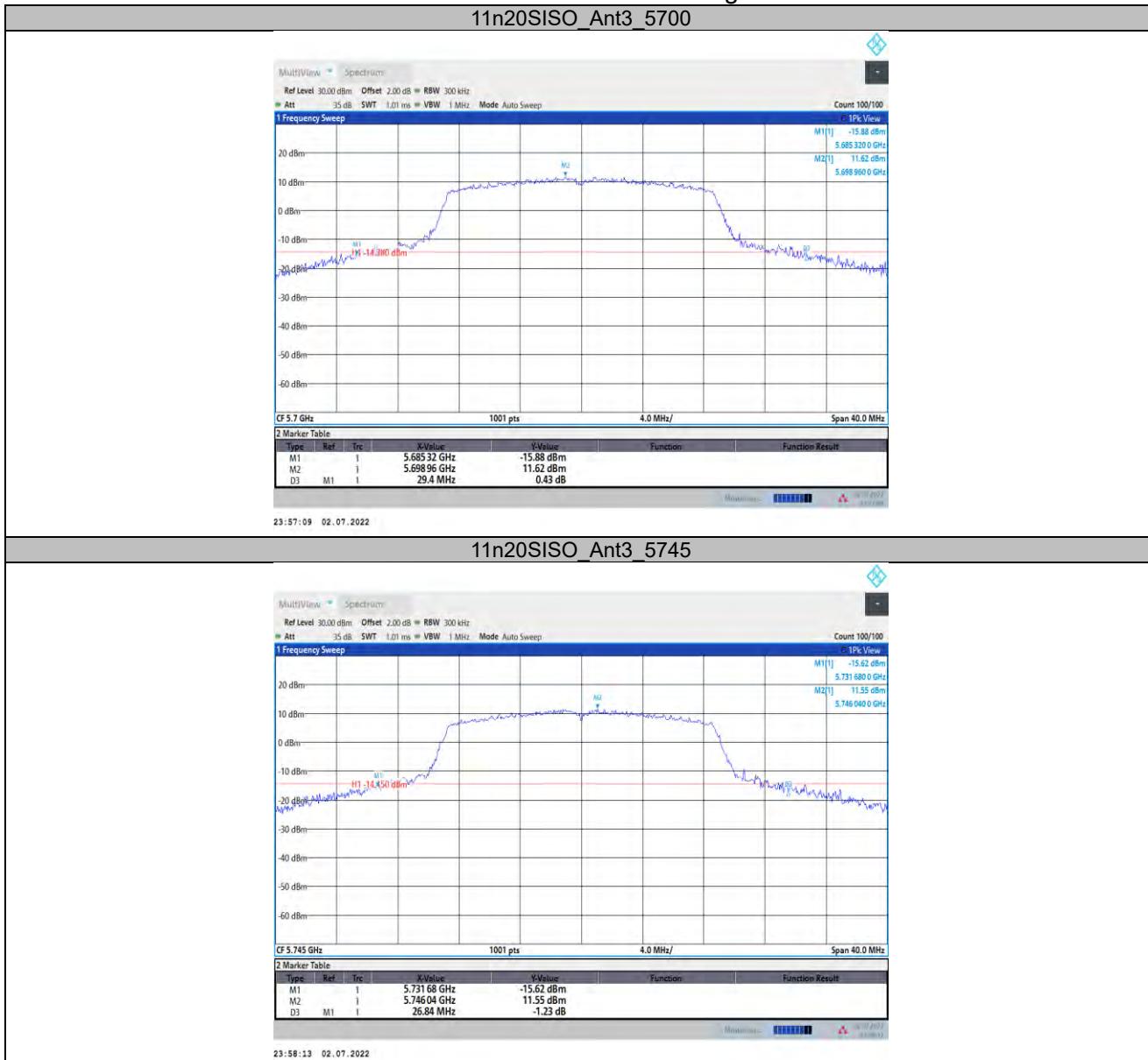


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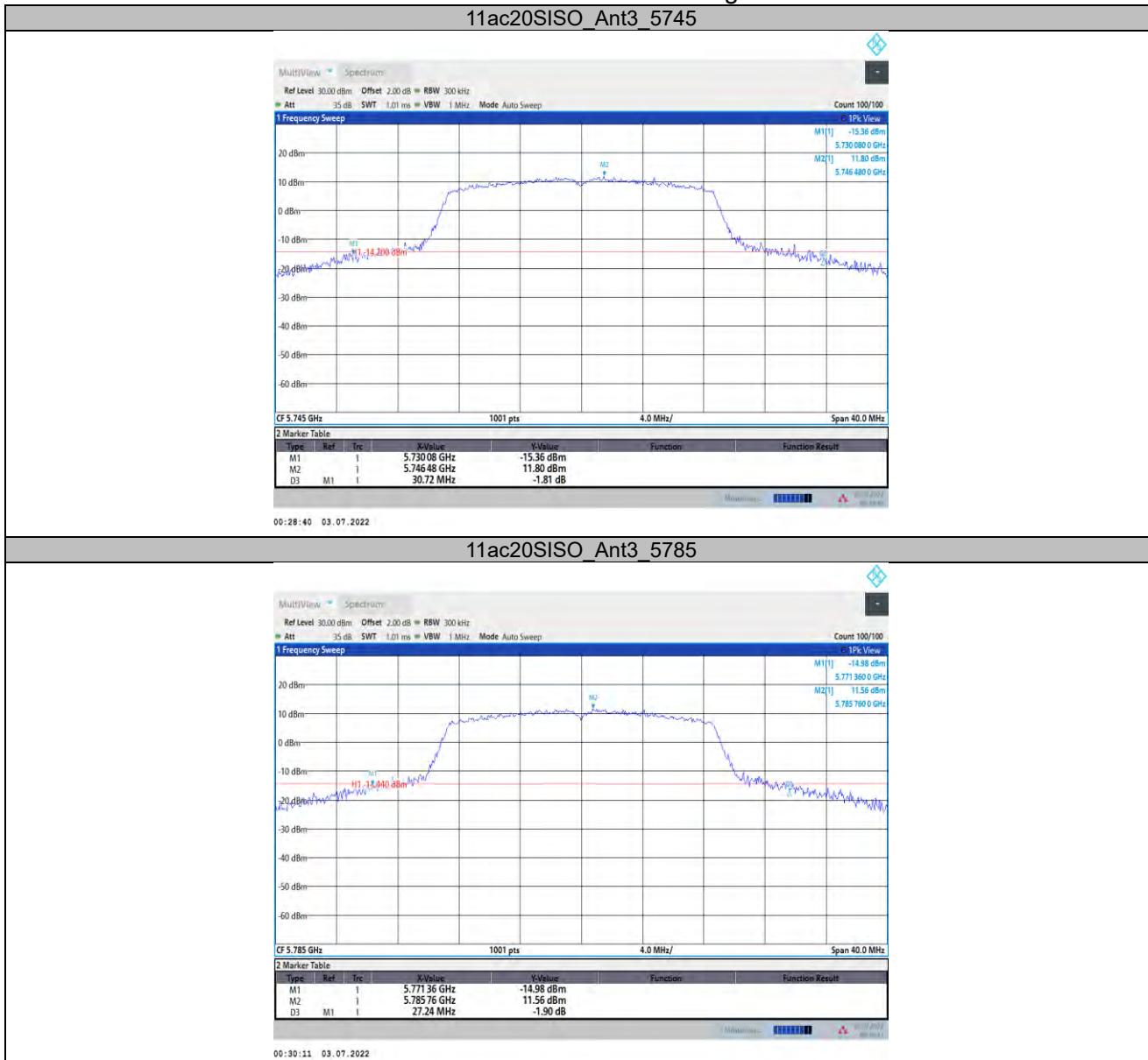
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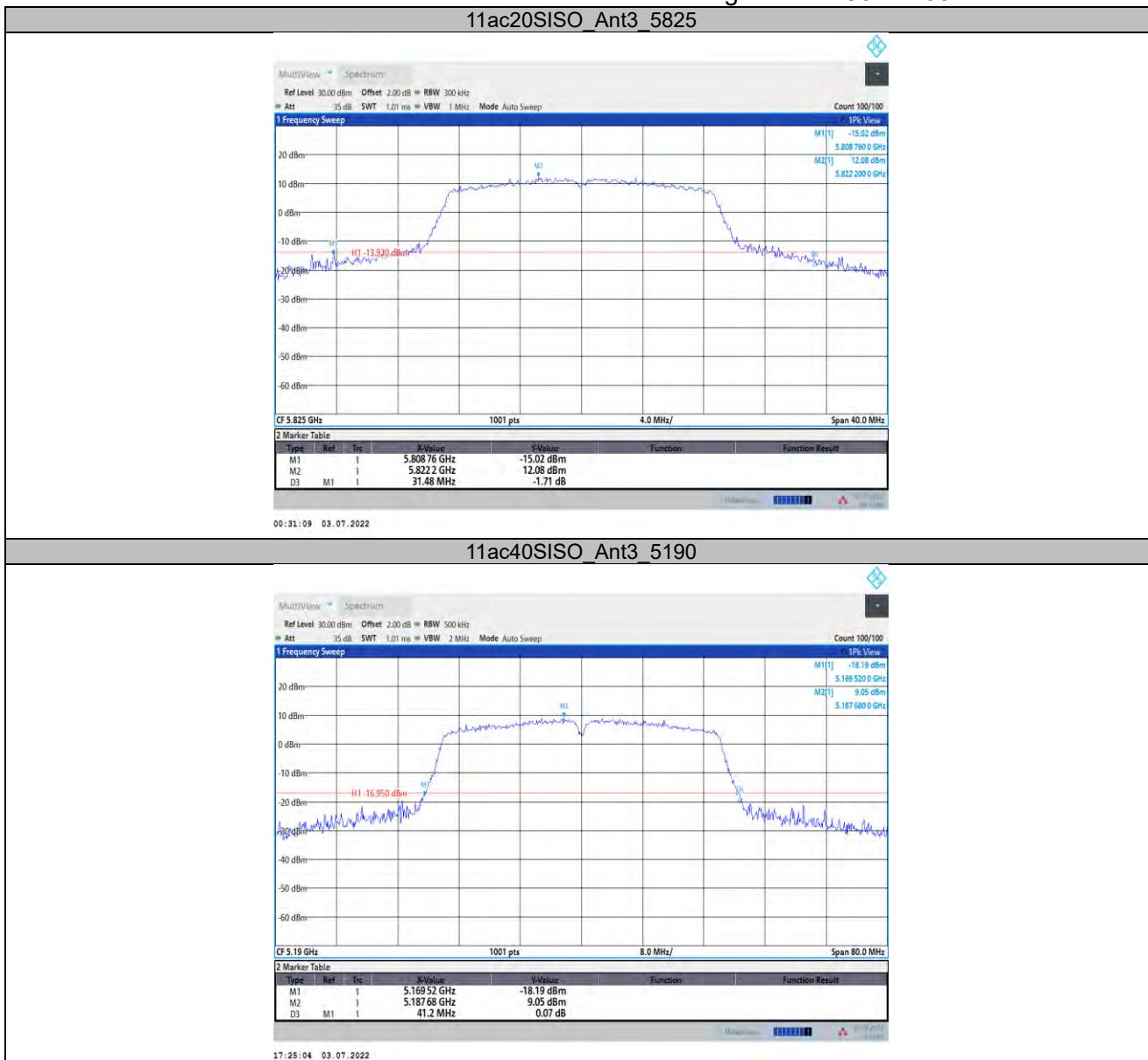


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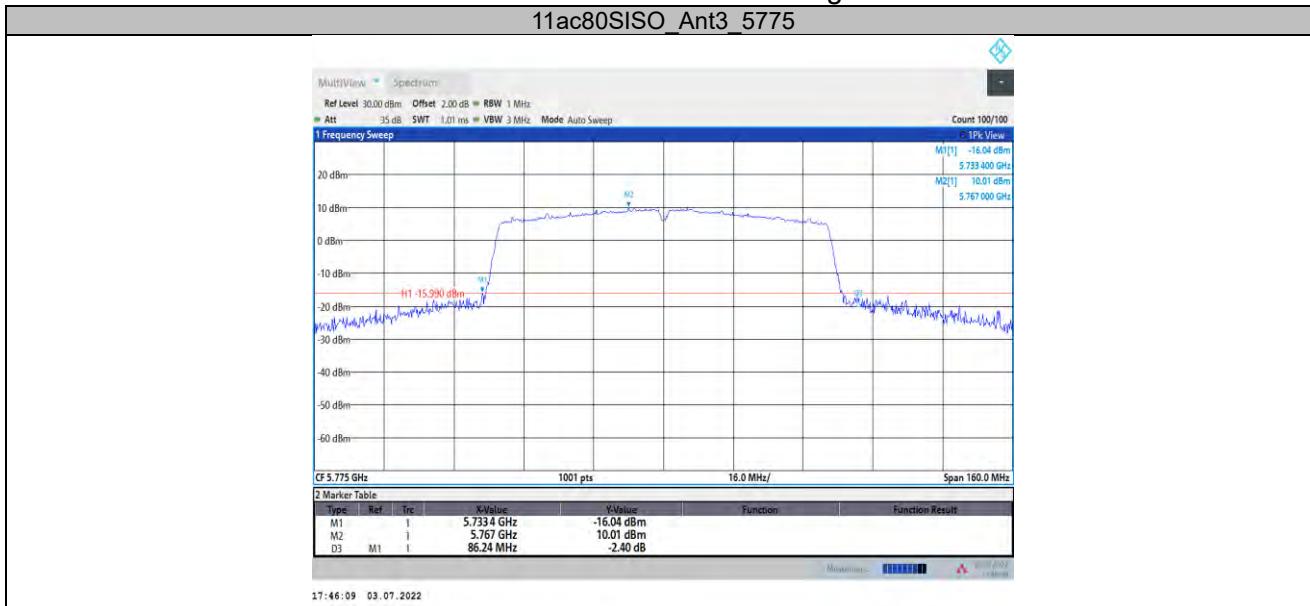


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## Occupied channel bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant3	5180	17.181	5171.403	5188.584	
		5220	17.101	5211.425	5228.526	
		5240	17.182	5231.367	5248.549	
		5260	17.099	5251.431	5268.531	
		5300	17.164	5291.414	5308.578	
		5320	17.164	5311.392	5328.555	
		5500	17.045	5491.460	5508.505	
		5580	17.154	5571.421	5588.575	
		5700	17.226	5691.371	5708.596	
		5745	17.239	5736.363	5753.602	
		5785	17.147	5776.364	5793.511	
		5825	17.186	5816.335	5833.520	
		5180	18.325	5170.815	5189.140	
		5220	18.277	5210.816	5229.093	
11n20SISO	Ant3	5240	18.309	5230.824	5249.134	
		5260	18.294	5250.831	5269.125	
		5300	18.34	5290.811	5309.151	
		5320	18.363	5310.777	5329.141	
		5500	18.298	5490.813	5509.111	
		5580	18.367	5570.795	5589.162	
		5700	18.619	5690.651	5709.270	
		5745	18.462	5735.734	5754.196	
		5785	18.418	5775.749	5794.167	
		5825	18.517	5815.689	5834.206	
		5190	36.964	5171.540	5208.503	
		5230	37.01	5211.554	5248.564	
		5270	36.994	5251.591	5288.584	
11n40SISO	Ant3	5310	36.915	5291.604	5328.519	
		5510	36.84	5491.568	5528.408	
		5550	36.873	5531.581	5568.455	
		5670	36.996	5651.535	5688.531	
		5755	36.937	5736.517	5773.454	
		5795	36.961	5776.494	5813.455	
		5180	18.238	5170.881	5189.119	
		5220	18.258	5210.888	5229.146	
		5240	18.28	5230.879	5249.158	
		5260	18.276	5250.866	5269.142	
11ac20SISO	Ant3	5300	18.383	5290.823	5309.206	
		5320	18.326	5310.858	5329.184	
		5500	18.285	5490.840	5509.125	
		5580	18.289	5570.843	5589.131	
		5700	18.487	5690.743	5709.229	
		5745	18.48	5735.754	5754.234	
		5785	18.362	5775.796	5794.158	
		5825	18.4	5815.794	5834.194	
		5190	36.579	5171.748	5208.327	
		5230	36.569	5211.743	5248.312	
		5270	36.535	5251.784	5288.319	
11ac40SISO	Ant3	5310	36.626	5291.722	5328.347	
		5510	36.507	5491.754	5528.261	
		5550	36.537	5531.742	5568.279	
		5670	36.65	5651.681	5688.331	

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		5755	36.727	5736.654	5773.381	
		5795	36.68	5776.624	5813.305	
11ac80SISO	Ant3	5210	75.383	5172.390	5247.773	
		5290	75.376	5252.446	5327.822	
		5530	75.332	5492.361	5567.693	
		5610	75.374	5572.347	5647.721	
		5775	75.424	5737.261	5812.685	



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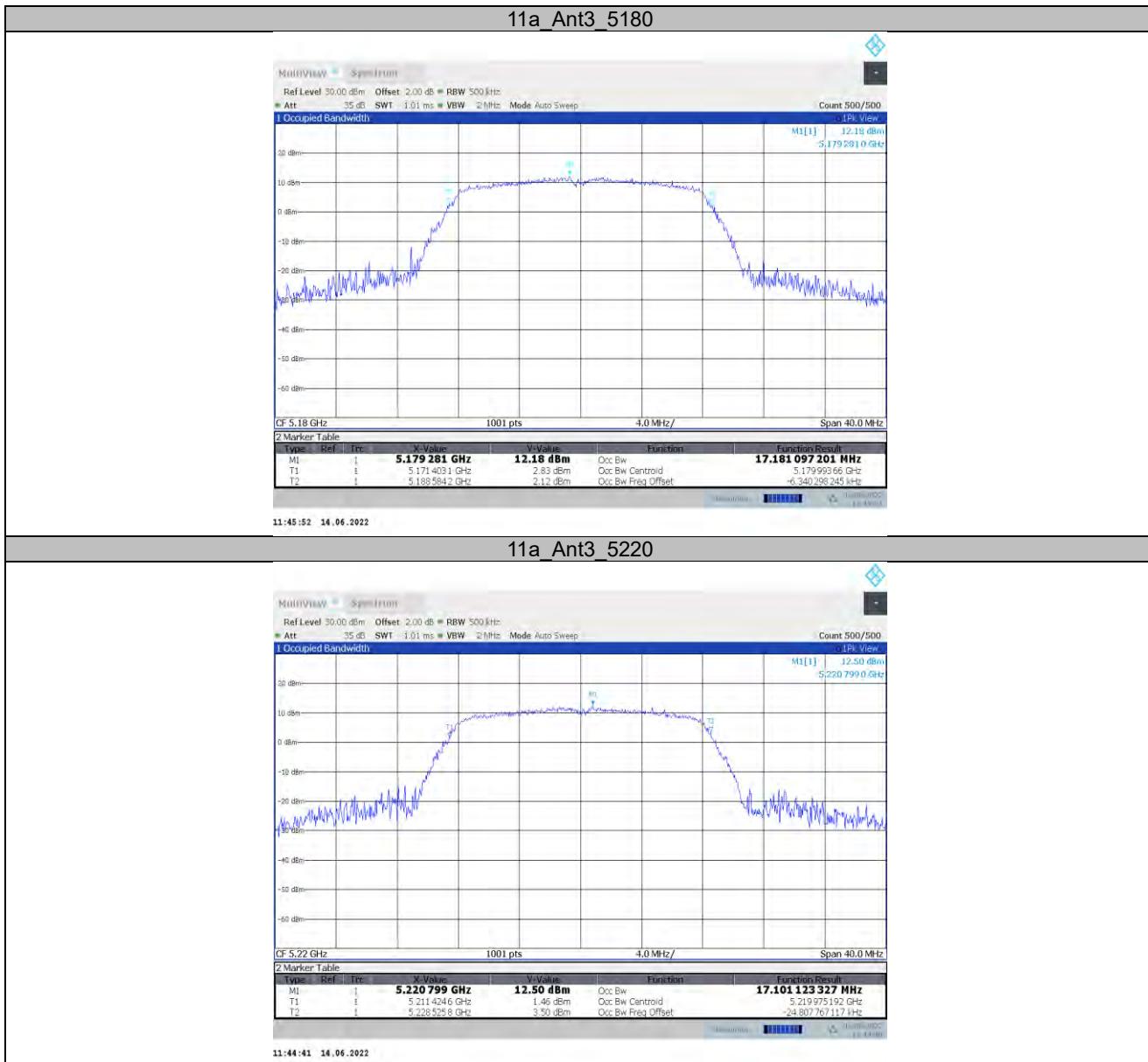
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## Test Graphs



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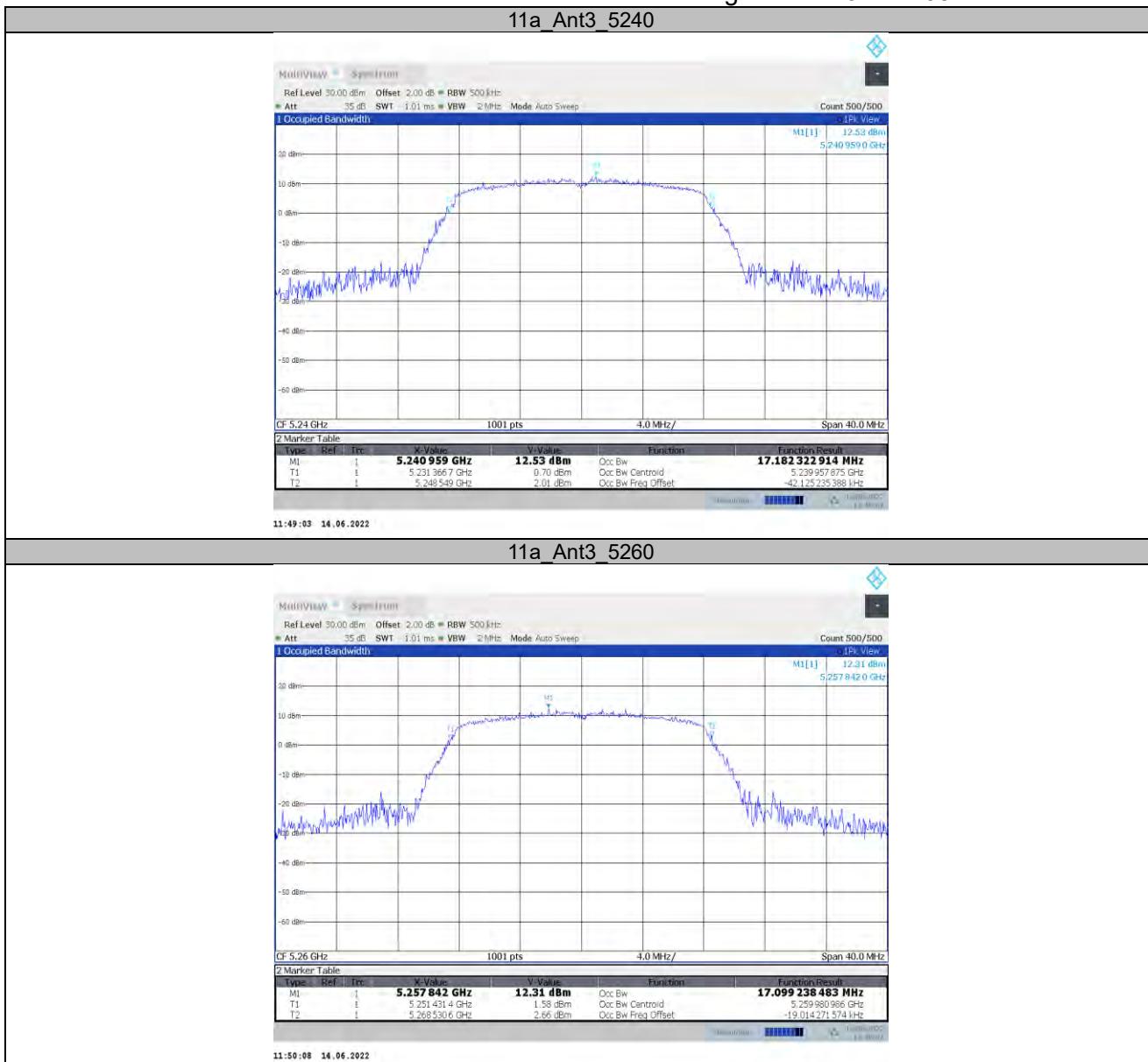


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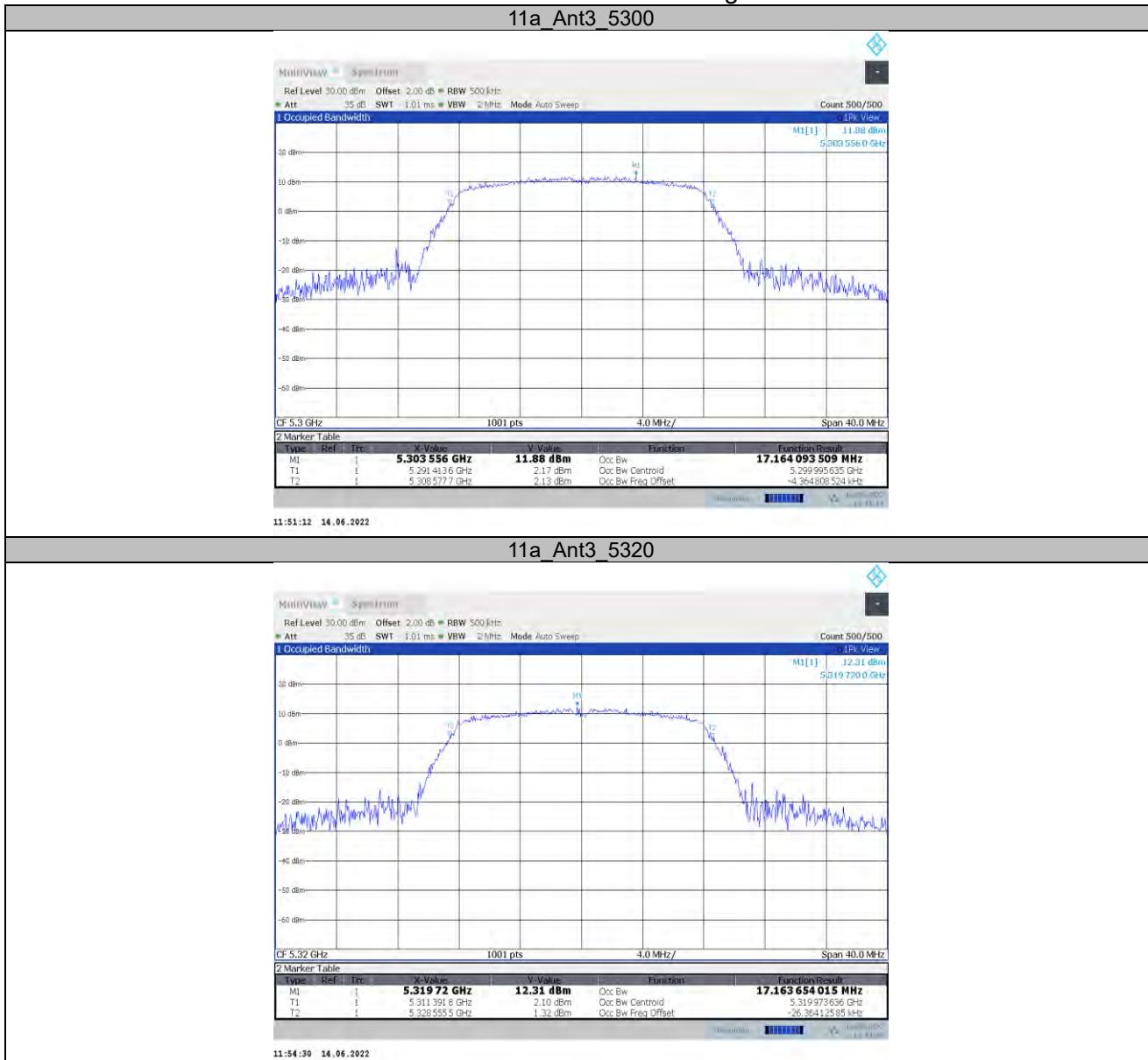


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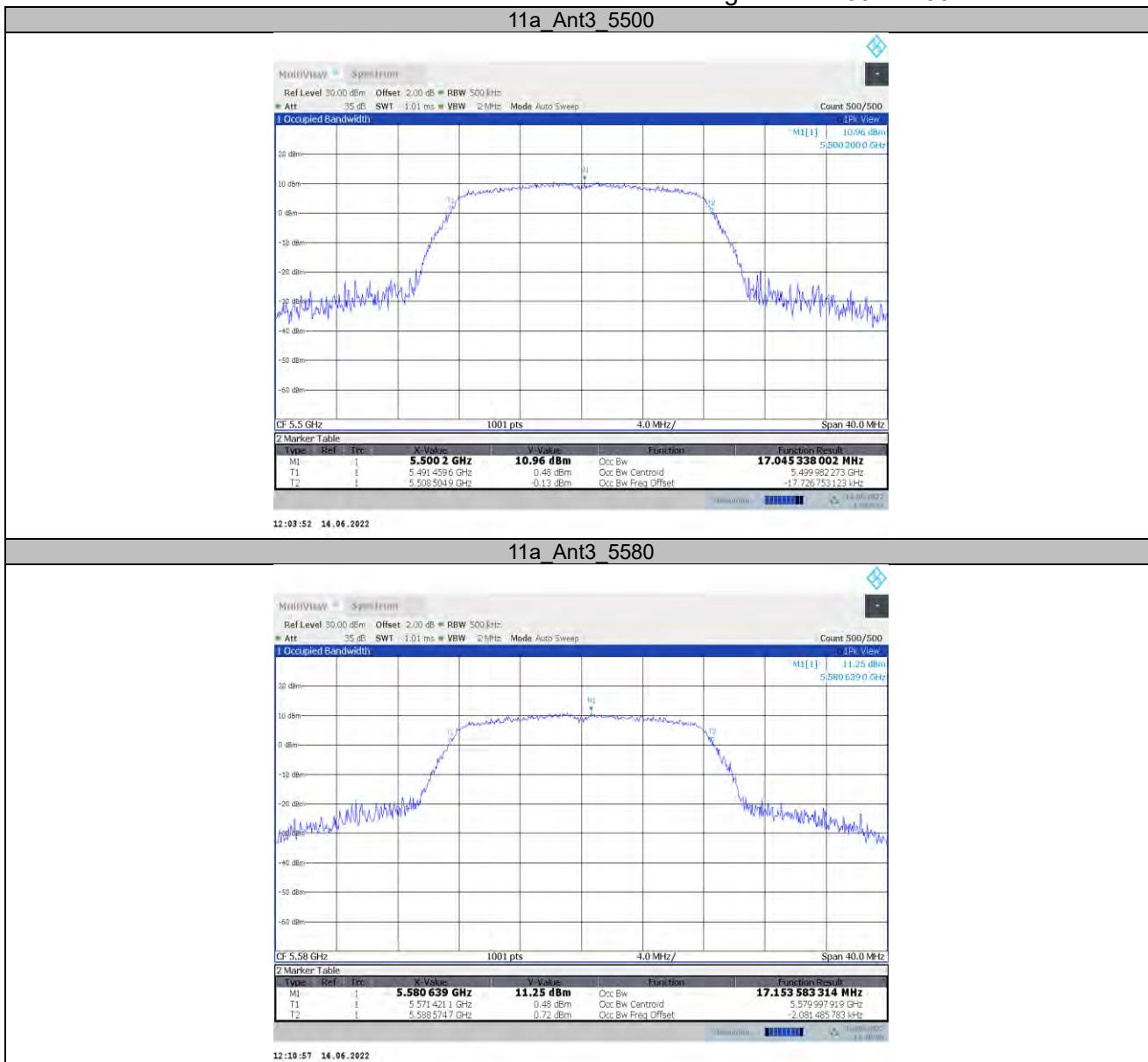


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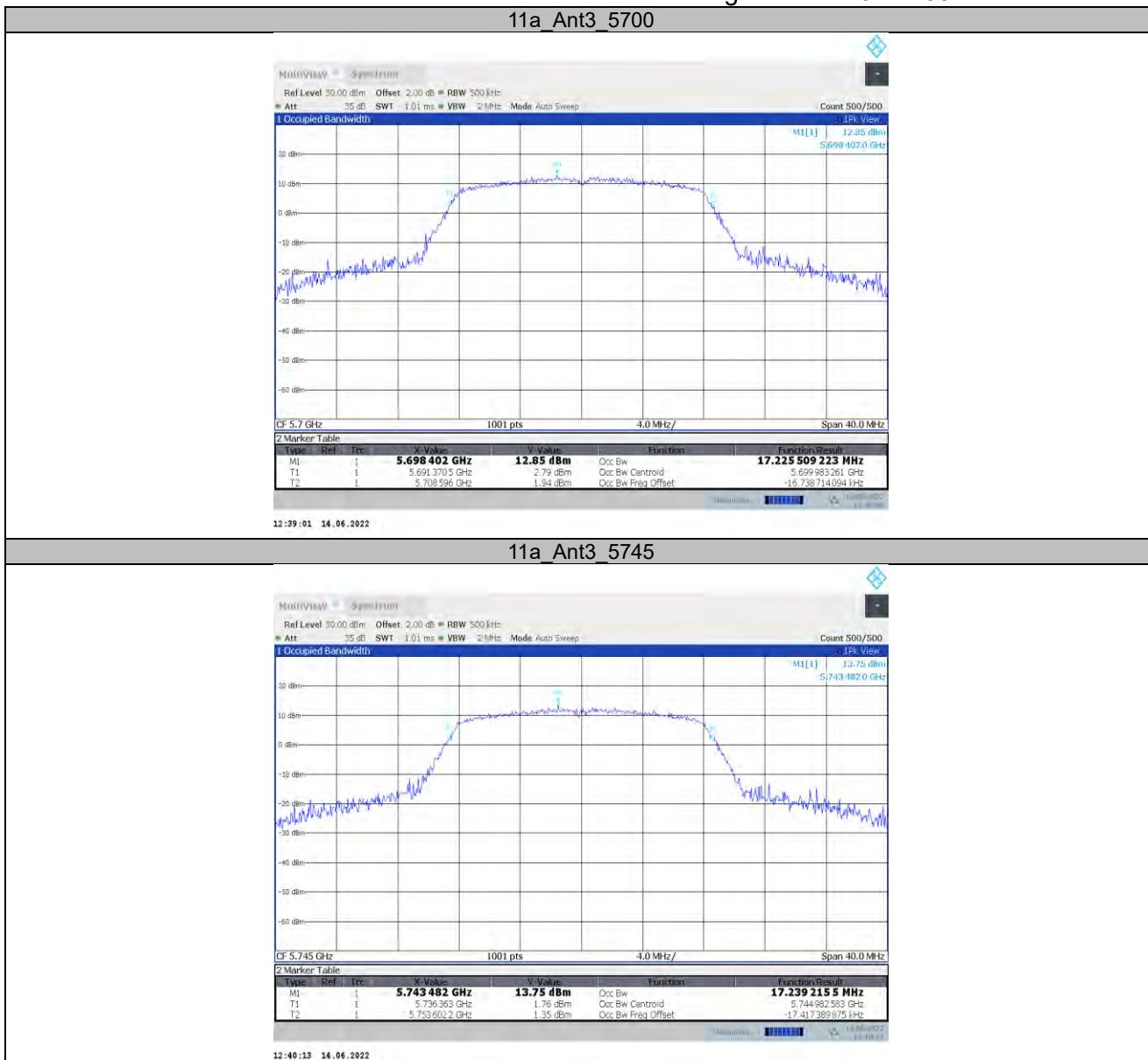


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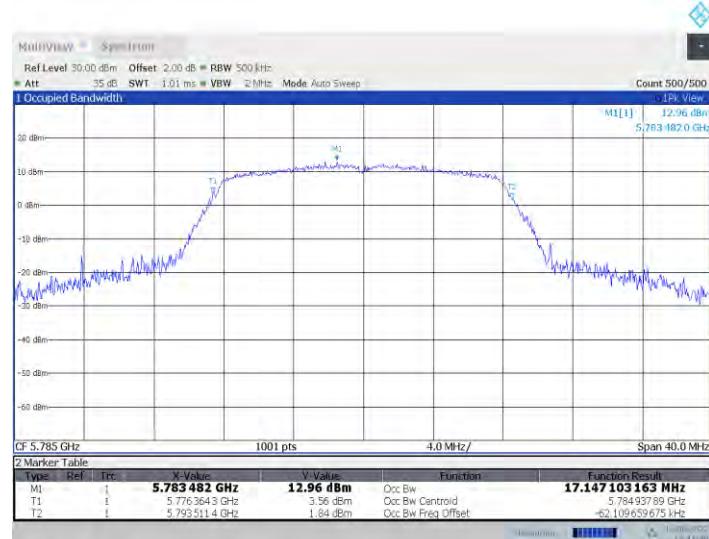
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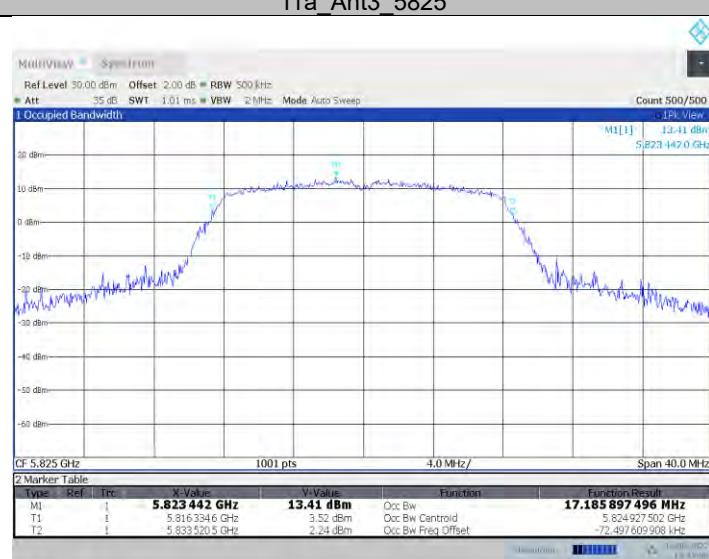
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## 11a\_Ant3\_5785



## 11a\_Ant3\_5825



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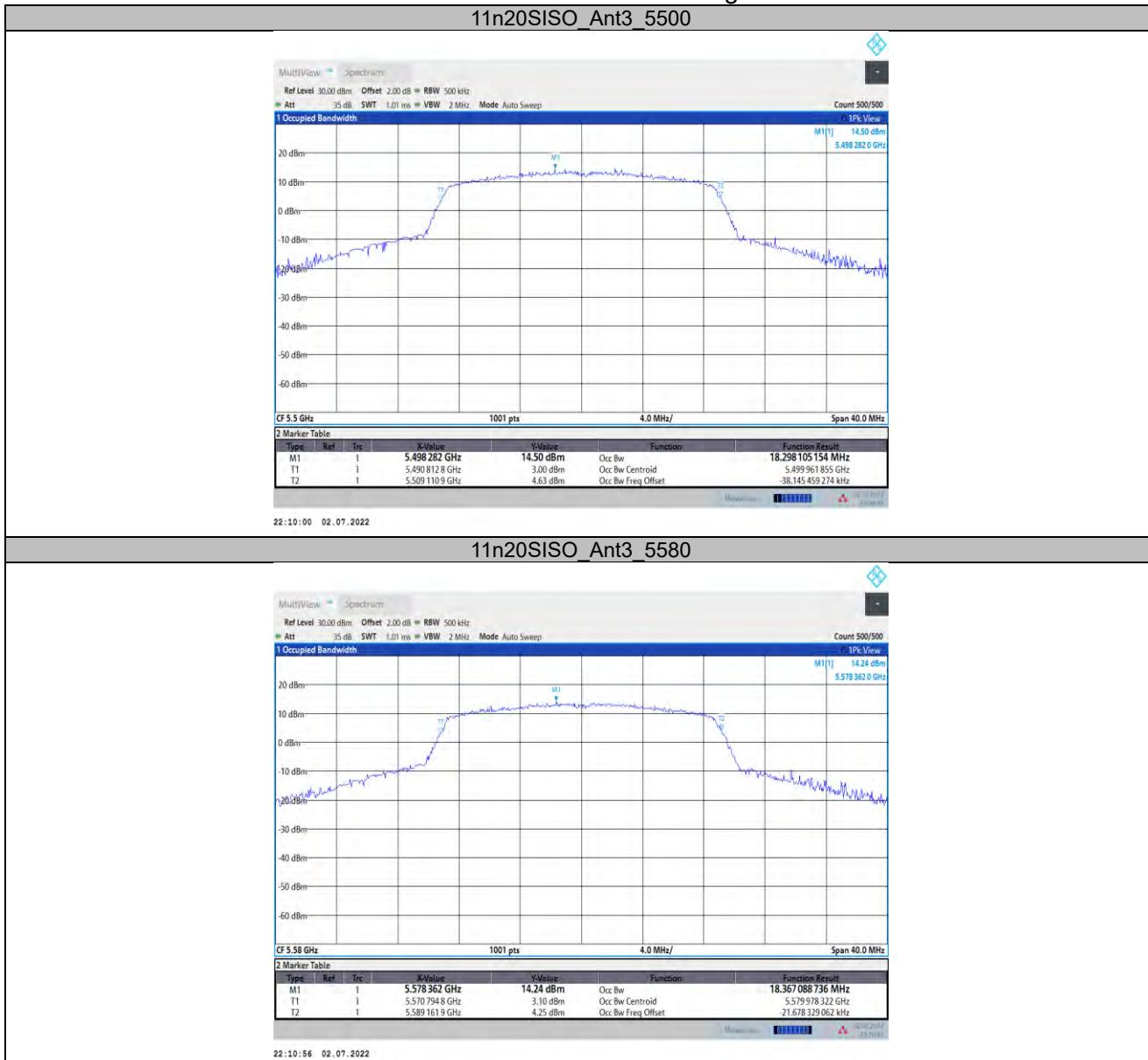


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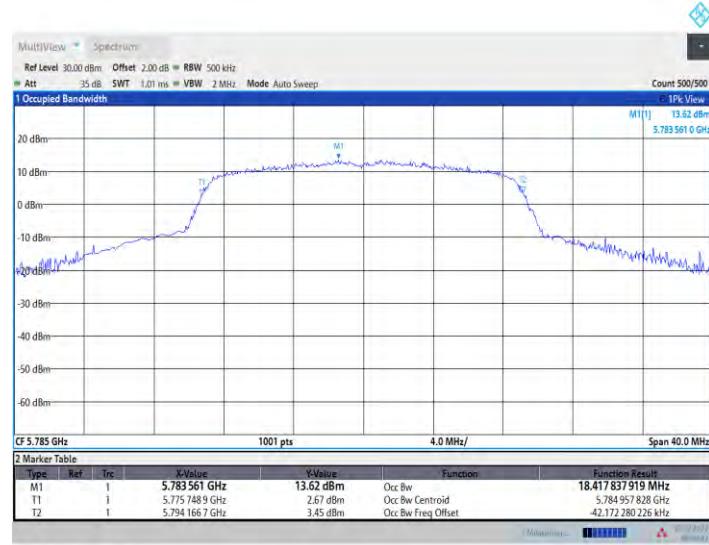
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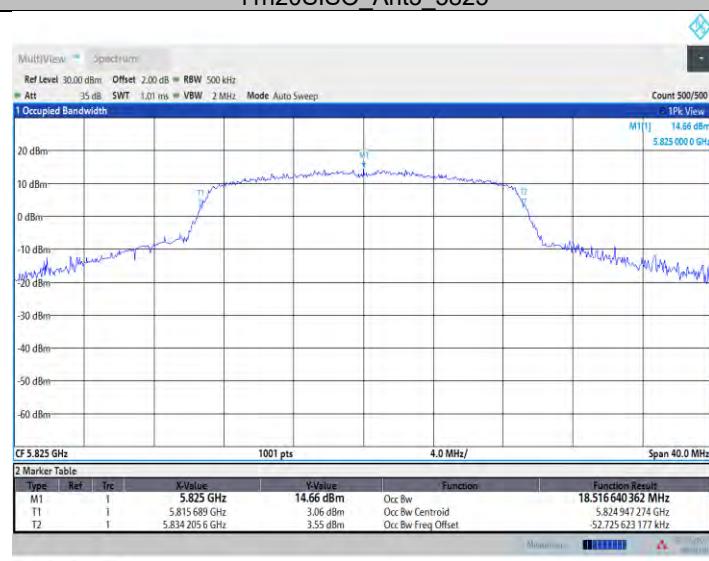
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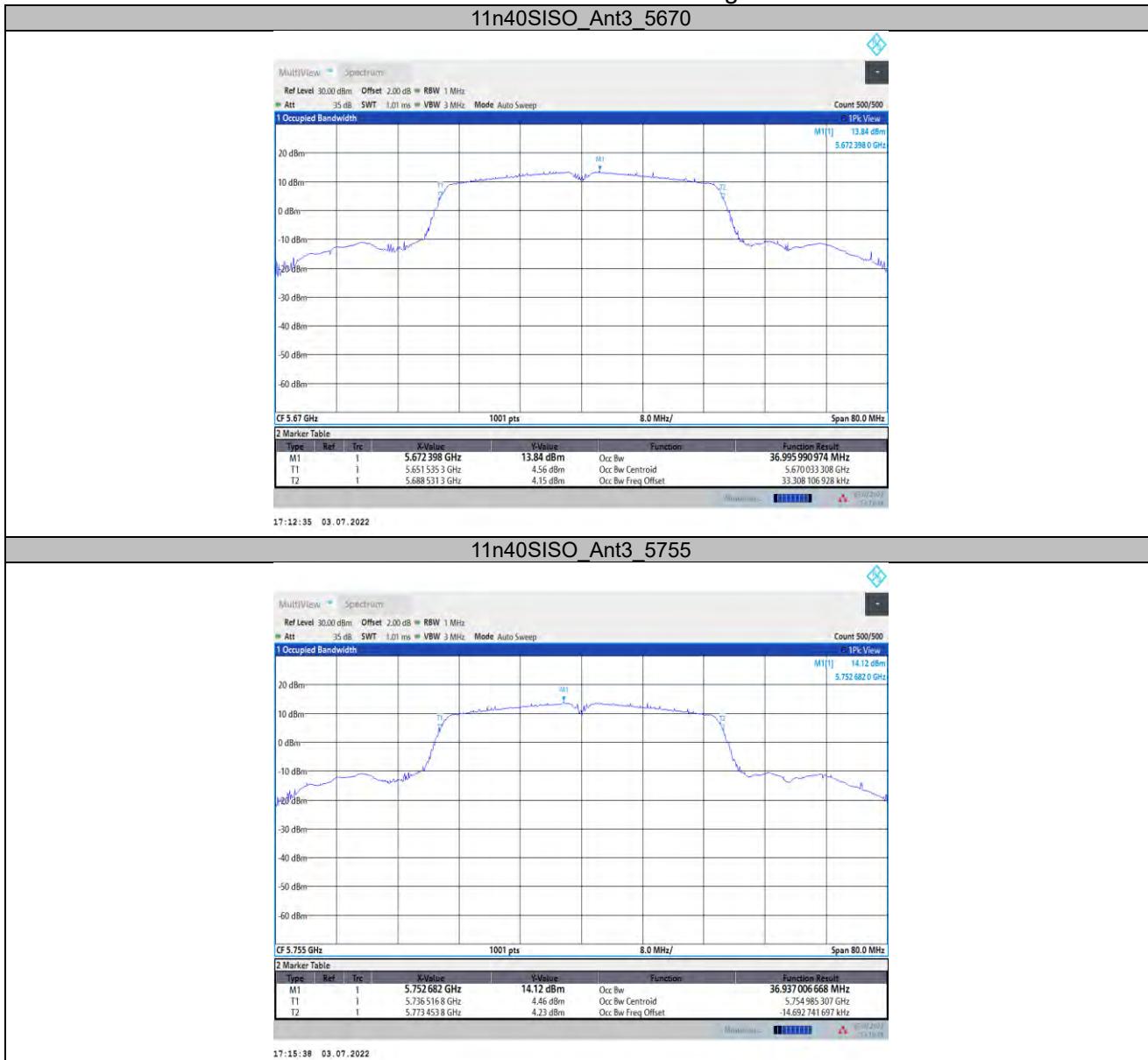
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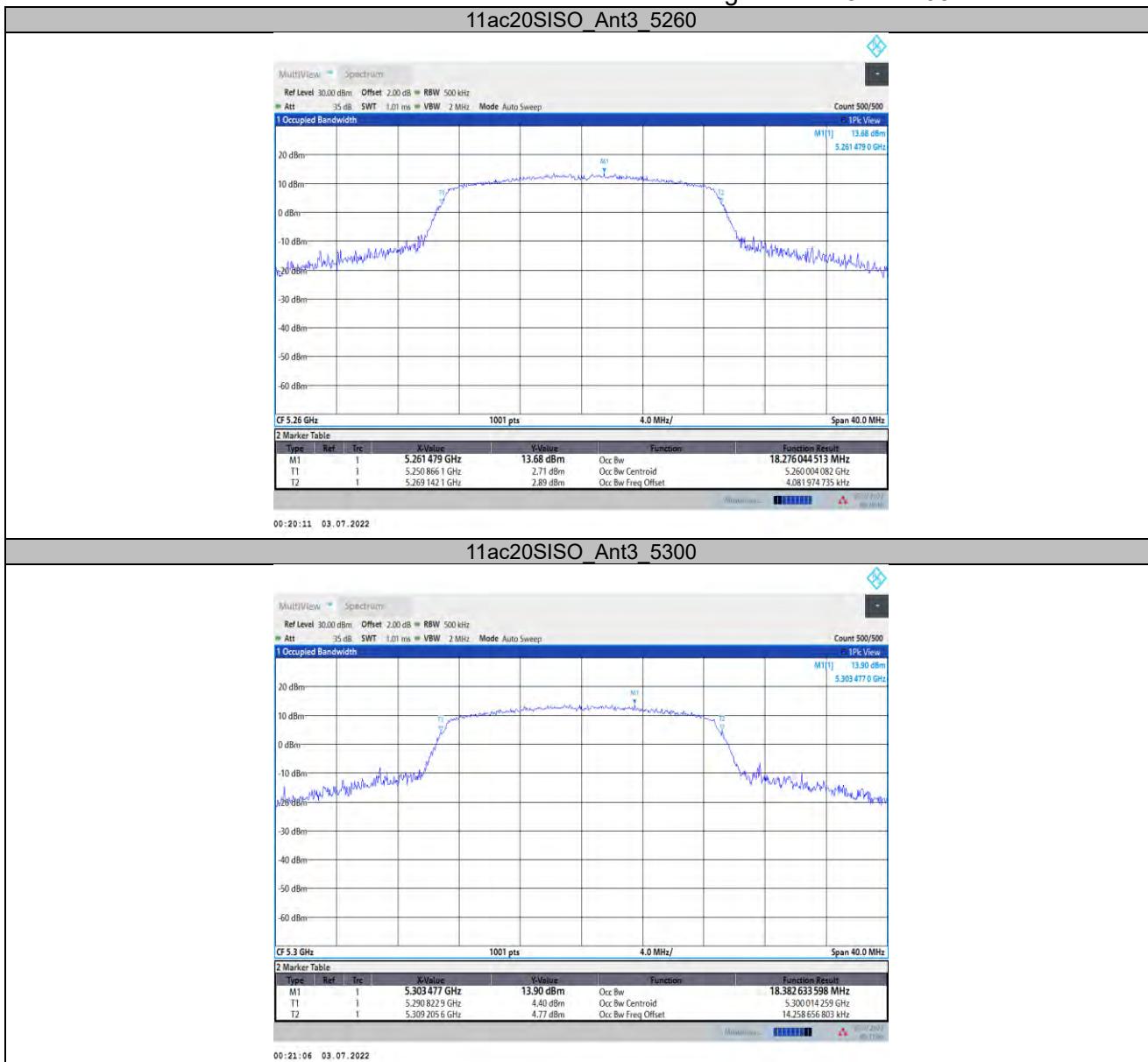
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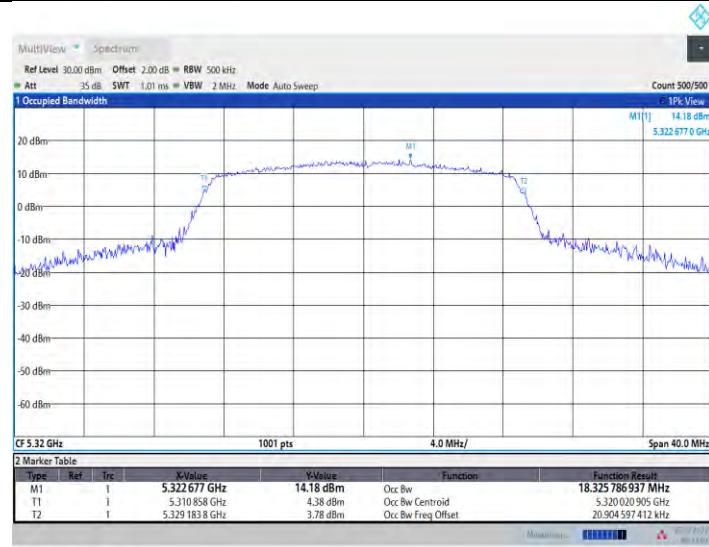
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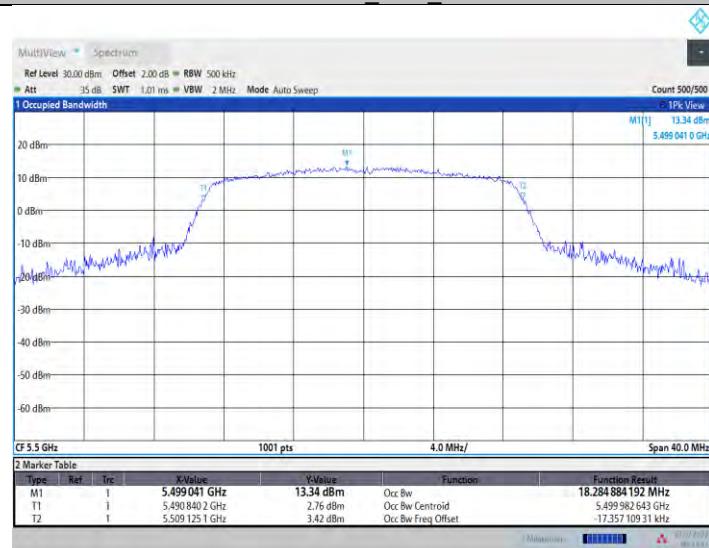
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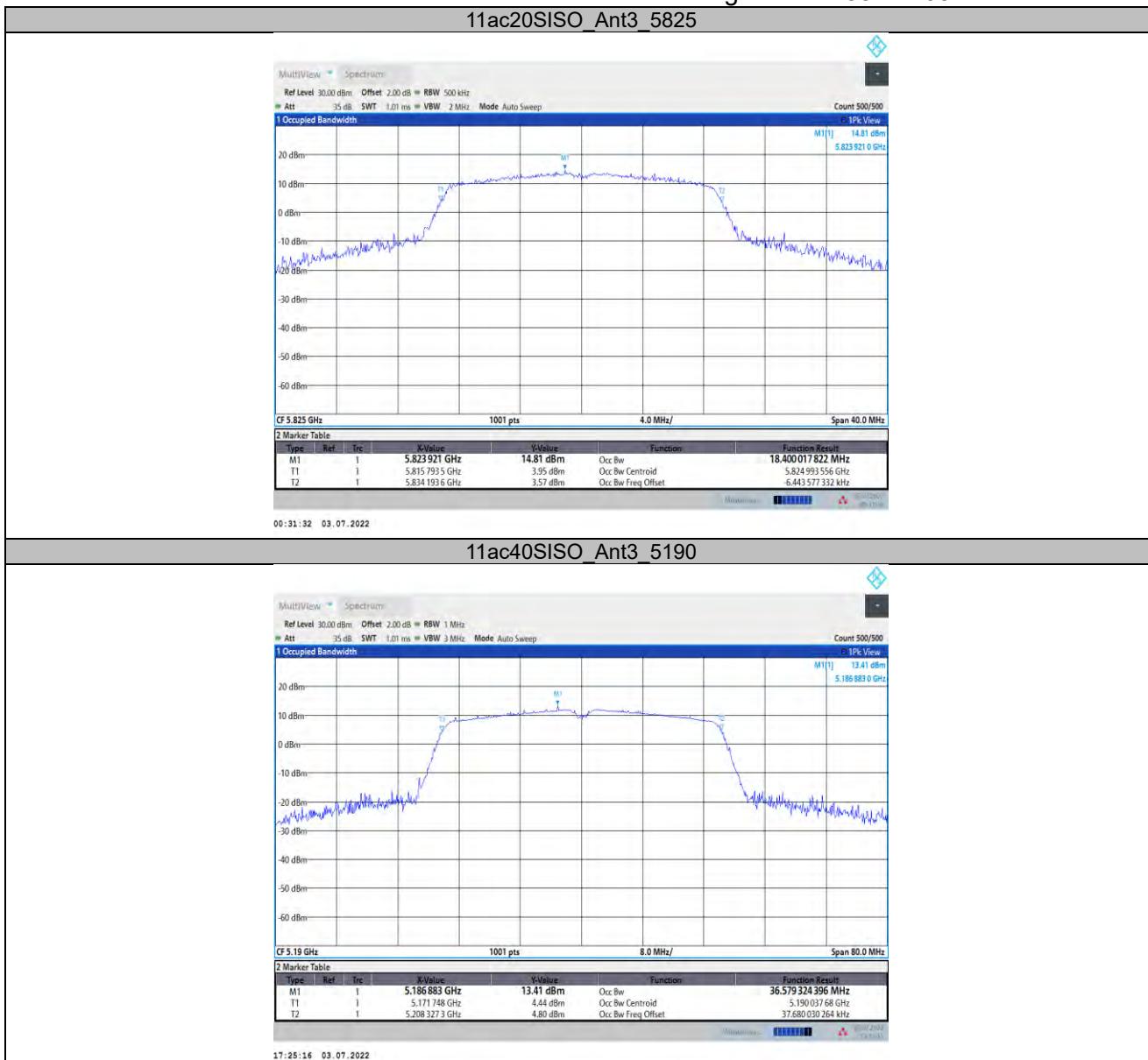


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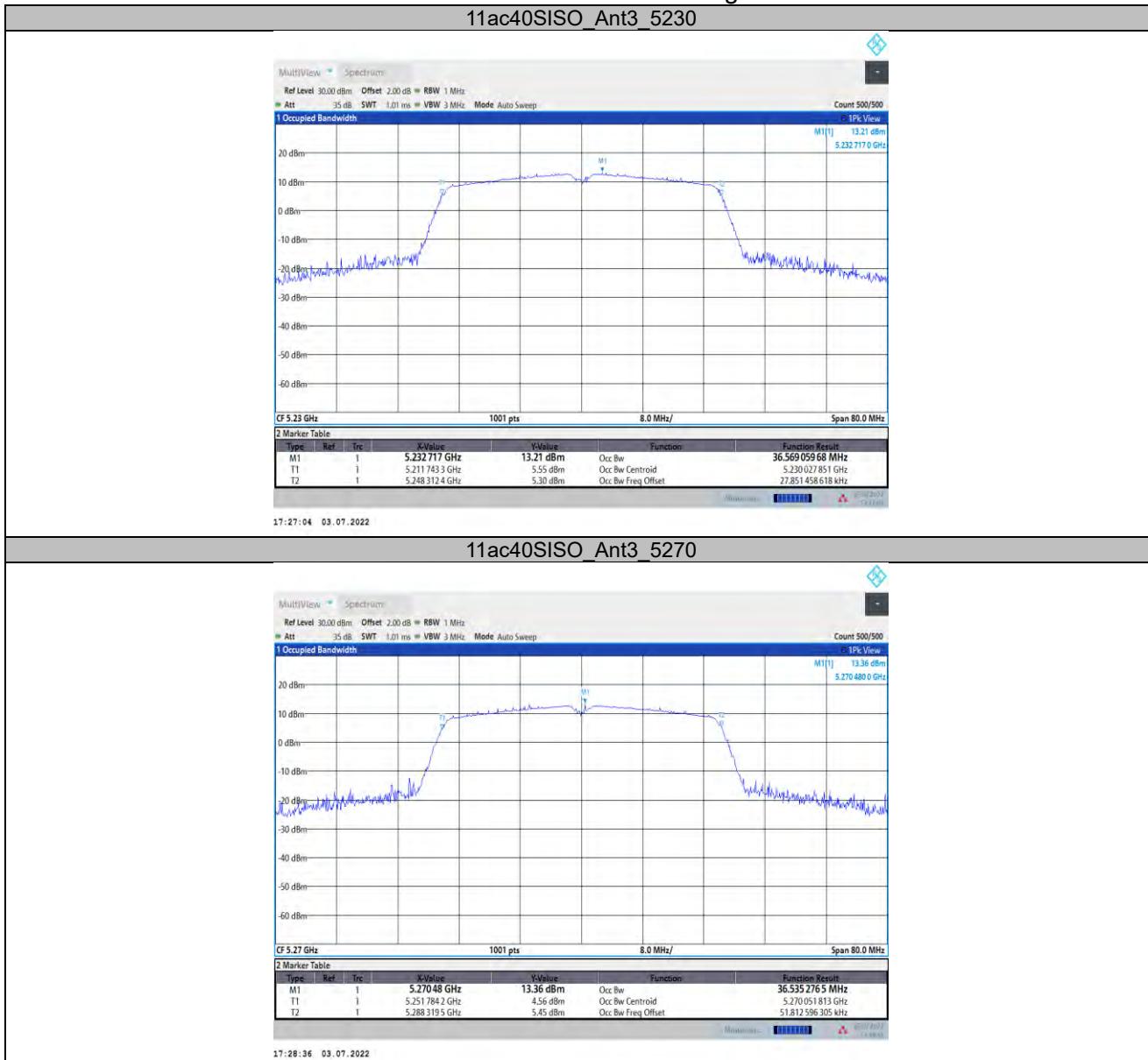
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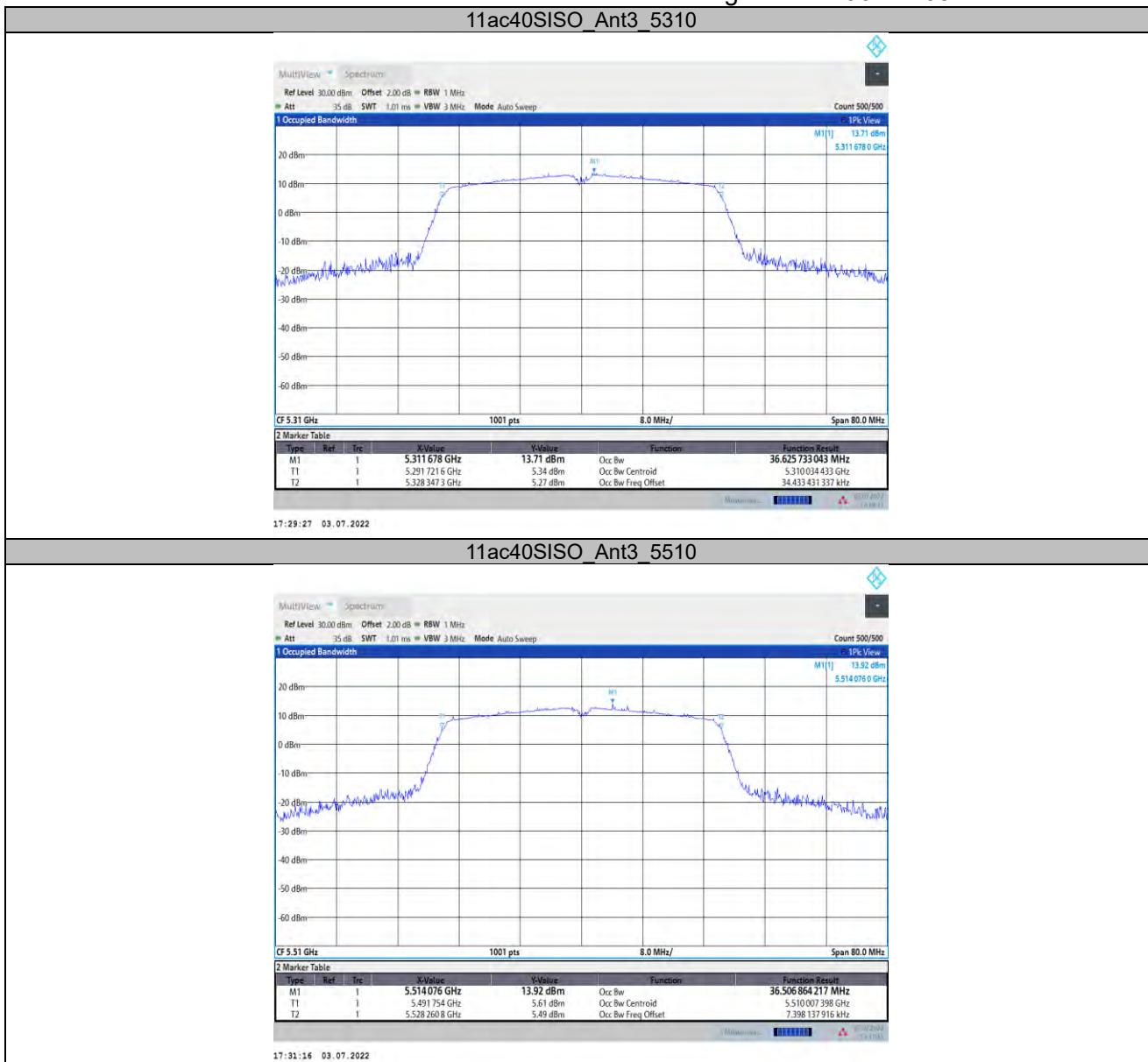


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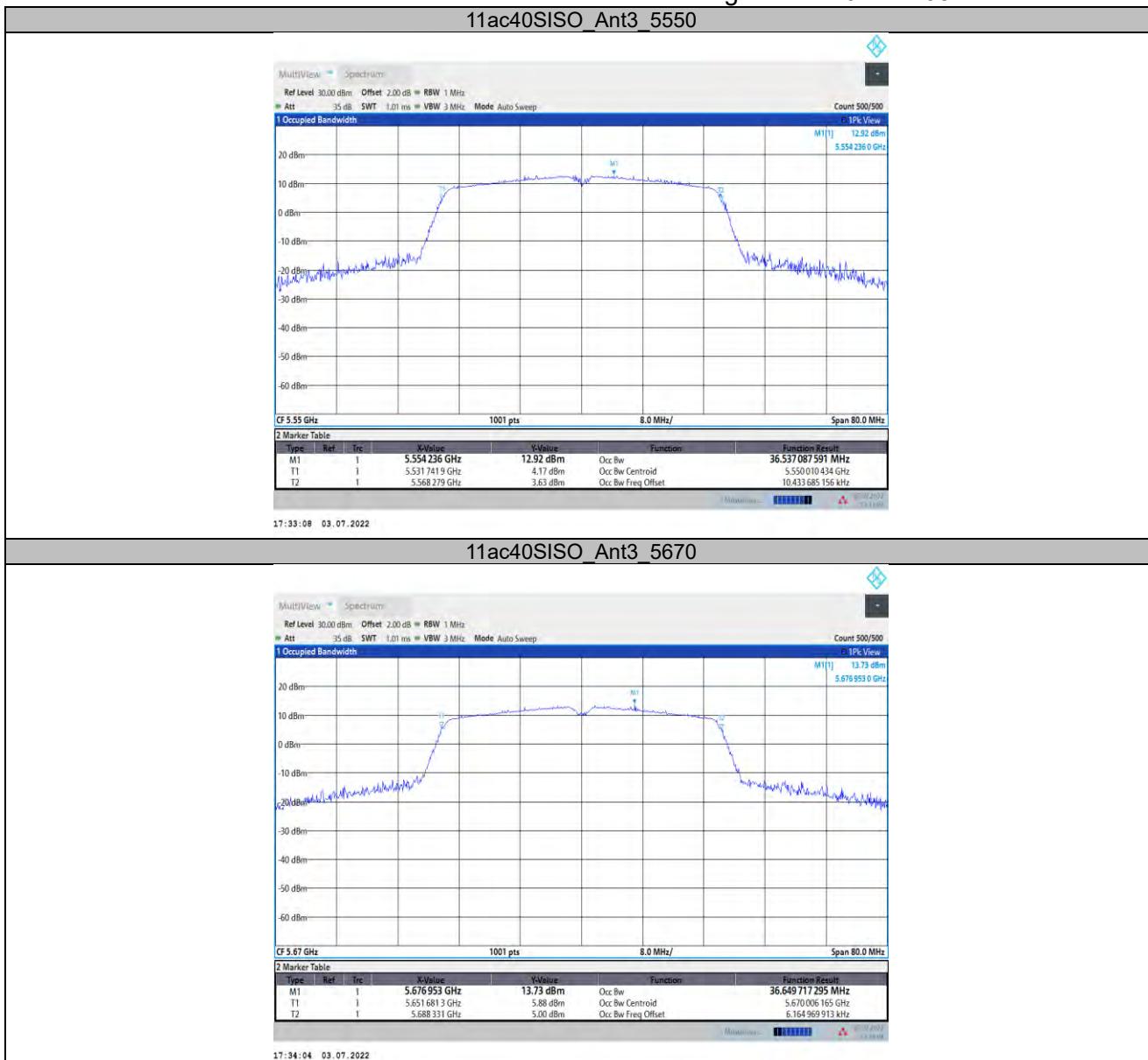


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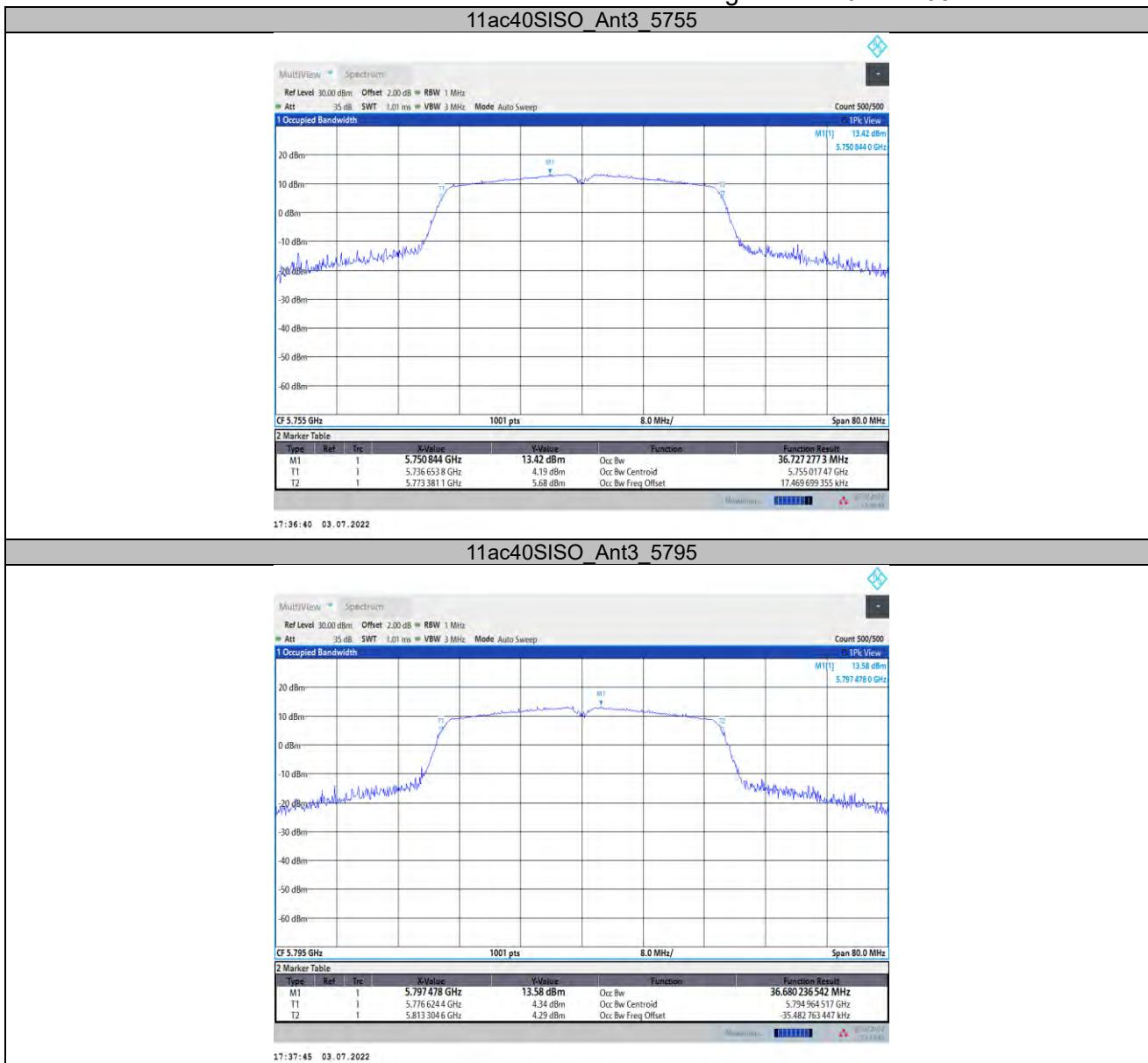
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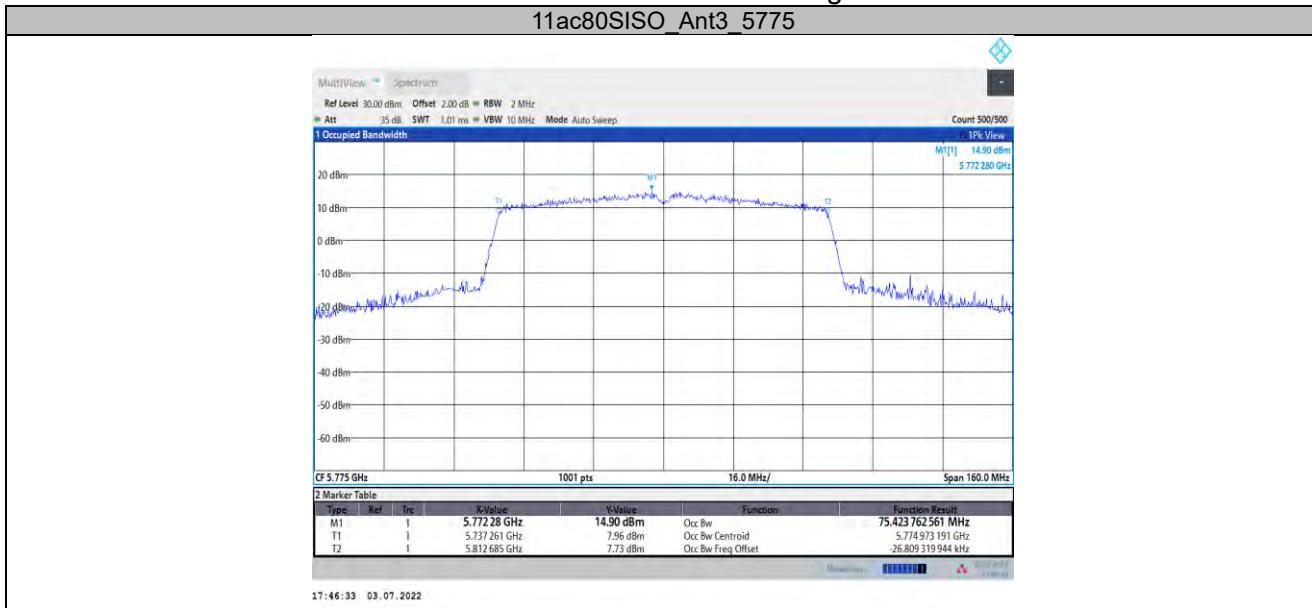
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**6dB emission bandwidth****Test Result B4**

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant3	5745	15.20	5737.36	5752.56	≥0.5	PASS
		5785	15.20	5777.36	5792.56	≥0.5	PASS
		5825	15.20	5817.36	5832.56	≥0.5	PASS
11n20SISO	Ant3	5745	15.20	5737.36	5752.56	≥0.5	PASS
		5785	15.20	5777.36	5792.56	≥0.5	PASS
		5825	15.20	5817.36	5832.56	≥0.5	PASS
11n40SISO	Ant3	5755	35.28	5737.40	5772.68	≥0.5	PASS
		5795	35.28	5777.40	5812.68	≥0.5	PASS
11ac20SISO	Ant3	5745	15.20	5737.36	5752.56	≥0.5	PASS
		5785	15.20	5777.36	5792.56	≥0.5	PASS
		5825	15.20	5817.36	5832.56	≥0.5	PASS
11ac40SISO	Ant3	5755	35.28	5737.40	5772.68	≥0.5	PASS
		5795	35.28	5777.40	5812.68	≥0.5	PASS
11ac80SISO	Ant3	5775	75.52	5737.24	5812.76	≥0.5	PASS

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## Test Graphs B4



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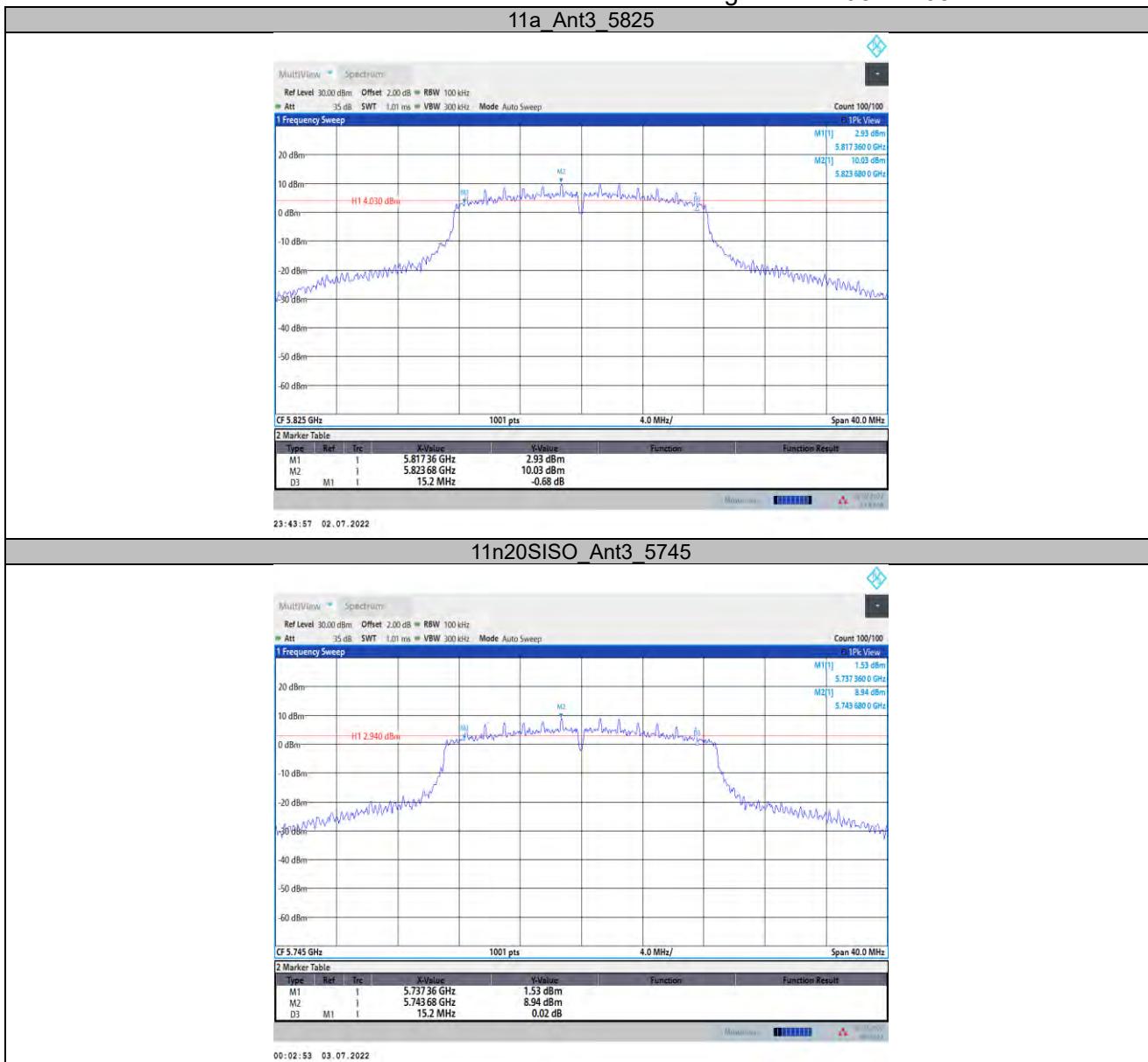


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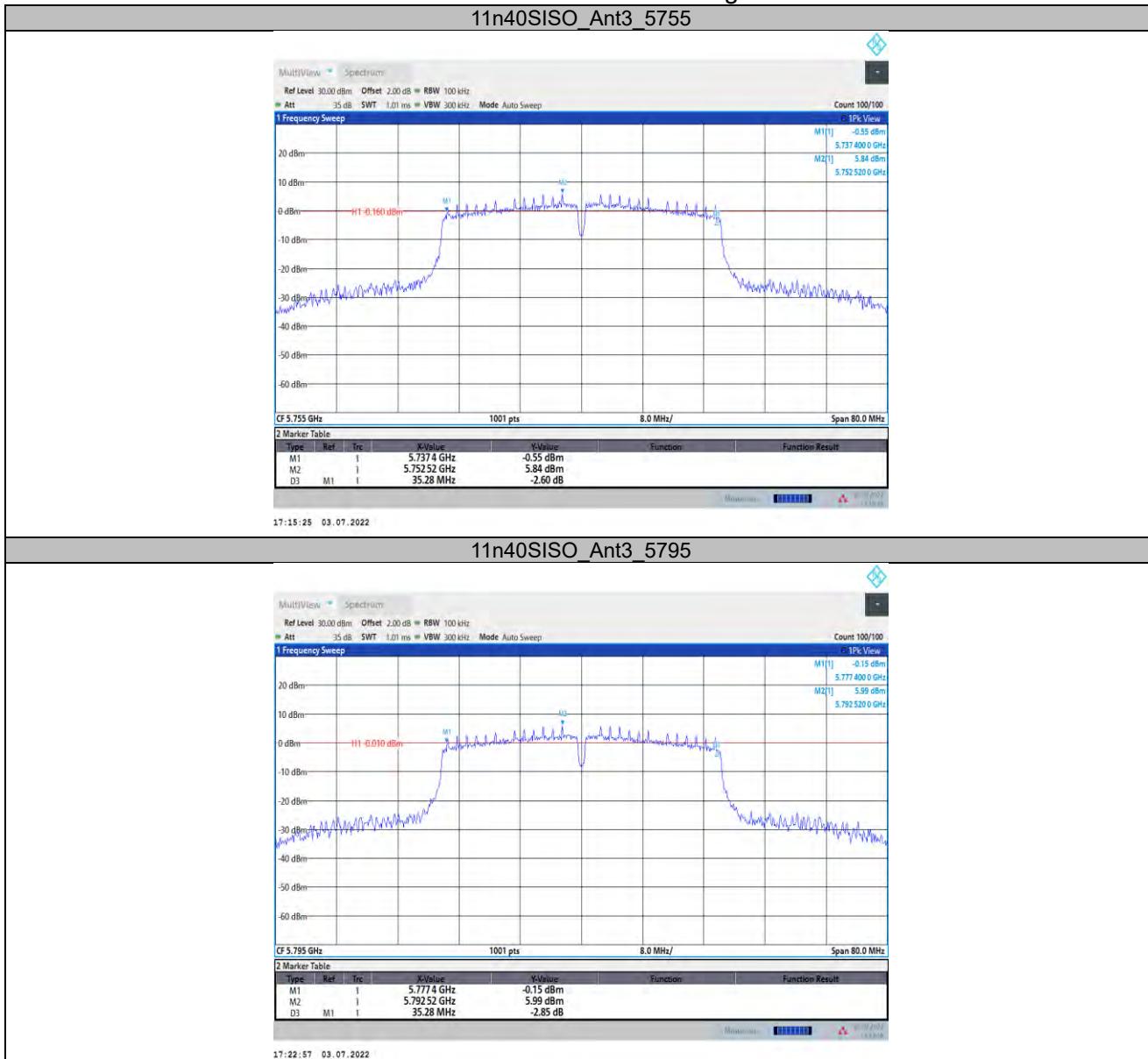


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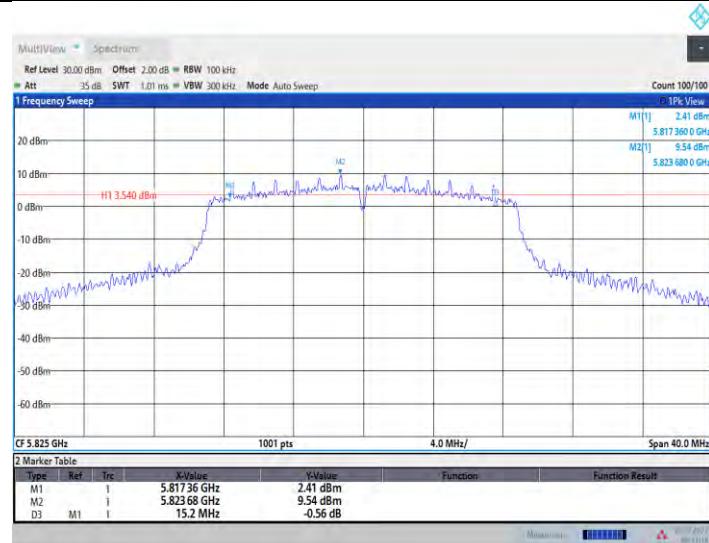
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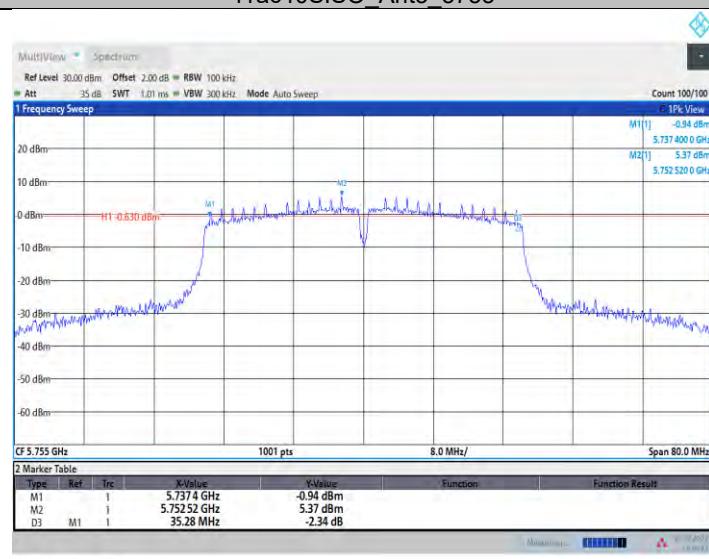
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## 11ac20SISO\_Ant3\_5825



## 11ac40SISO\_Ant3\_5755



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## Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant3	5180	1.39	1.44	96.53
11n20SISO	Ant3	5180	1.29	1.34	96.27
11n40SISO	Ant3	5190	0.64	0.69	92.75
11ac20SISO	Ant3	5180	1.31	1.36	96.32
11ac40SISO	Ant3	5190	0.65	0.70	92.86
11ac80SISO	Ant3	5210	0.32	0.37	86.49



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