


 Report No.: ZEWM2303000343RG06  
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## TEST REPORT

**Application No.:** ZEWM2303000343RG  
**Applicant:** vivo Mobile Communication Co., Ltd.  
**Address of Applicant:** No.1, vivo Road, Chang'an, Dongguan,Guangdong,China  
**Manufacturer:** vivo Mobile Communication Co., Ltd.  
**Address of Manufacturer:** No.1, vivo Road, Chang'an, Dongguan,Guangdong,China  
**EUT Description:** Mobile Phone  
**Model No.:** V2247  
**Trade Mark:** vivo  
**FCC ID:** 2AUCY-V2247  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart E  
**Date of Receipt:** 2023/04/21  
**Date of Test:** 2023/04/21 to 2023/05/18  
**Date of Issue:** 2023/05/19

<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:

Ervin Li  
Regulatory Manager



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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/05/19		Original

Prepared By	 _____ (Dee Zheng) / Test Engineer
Checked By	 _____ (Daniel Wang) / Reviewer



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## 2 Test Summary

Test Item	Band <sup>[1]</sup>	FCC rules No.	Test Requirements	Test Result	Result	Lab <sup>[2]</sup>
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	For Report Purpose	A
	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	A
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	For Report Purpose	A
	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	For Report Purpose	A
Maximum Conducted Output Power	Band I	15.407(a)(iv)	< 250mW	Clause 4.4	PASS	A
	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)(iv)	<11dBm/MHz	Clause 4.8	PASS	A
	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	B
	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.		PASS	



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			5.25-5.35 GHz). F $\geq$ 1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).			
	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F $\geq$ 1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F $\geq$ 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 $\geq$ 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 $\geq$ 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	B
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 4.2	PASS	B
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS	A
Frequency Stability	Band I Band II-	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring	N/A	N/A	N/A



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	A Band II-C Band III		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			
--	----------------------------	--	--	--	--	--

Note 1:  
Band I: 5150-5250MHz  
Band II-A: 5250-5350MHz  
Band II-C: 5470-5725MHz  
Band III: 5725-5850MHz  
Note 2:  
Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch  
Lab B SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.



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## 3 General Information

### 3.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China

### 3.2 Test Location

<b>Lab A:</b>	
Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Jerry Zeng
<b>Lab B:</b>	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Ken Liu



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### 3.3 Test Facility

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

Lab A:
<ul style="list-style-type: none"> <li>• <b>A2LA (Certificate No. 3816.01)</b> SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.</li> <li>• <b>VCCI</b> The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.</li> <li>• <b>Innovation, Science and Economic Development Canada</b> SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0006. IC#: 4620C.</li> <li>• <b>FCC –Designation Number: CN1336</b> SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory. Designation Number: CN1336. Test Firm Registration Number: 787754</li> </ul>
Lab B:
<ul style="list-style-type: none"> <li>• <b>A2LA (Certificate No. 4854.01)</b> SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.</li> <li>• <b>Innovation, Science and Economic Development Canada</b> SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0095. IC#: 25613.</li> <li>• <b>FCC –Designation Number: CN1337</b> SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1337. Test Firm Registration Number: 917410</li> </ul>



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## 3.4 General Description of EUT

EUT Description:	Mobile Phone	
Model No.:	V2247	
Trade Mark:	vivo	
Hardware Version:	MP_0.1	
Software Version:	PD2280IF_EX_A_13.0.6.1.W30	
IMEI:	RF Conducted	IMEI1:863548060194275 IMEI2:863548060194267
	RSE & AC power line	863548060194937
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:	PIFA Antenna	
Antenna Gain:	5150MHz to 5250MHz: -3.2dBi(Ant22); 5250MHz to 5350MHz: -3.2dBi(Ant22); 5470MHz to 5725MHz: -3.2dBi(Ant22); 5725MHz to 5850MHz: -3.2dBi(Ant22);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
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
<input type="checkbox"/> Diversity	802.11a: Tx & Rx	
TPC Function:	<input type="checkbox"/> Support, <input checked="" type="checkbox"/> Not Support	



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Use Conditions:	Indoor	
DFS Function:	<input type="checkbox"/> Master	
	<input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
RF Cable:	4900MHz ~5250MHz(1.5dB)	5250MHz ~5350MHz(1.7dB)
	5470MHz ~5725MHz(1.8dB)	5725MHz ~ 5850MHz(1.5dB)
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		

Remark: In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:		
Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:		
Mode	Channel	Frequency(MHz)
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



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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

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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Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 <sup>[1]</sup>	5720	142 <sup>[2]</sup>	5710
	138 <sup>[3]</sup>	5690		

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.
2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.
3. The above Frequency and Channel were 802.11ac VHT80.

### 3.5 Test Environment and Mode

Environment Parameter	96~101 kPa Selected Values During Tests	
Relative Humidity	40-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.89

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature

### 3.6 Description of Support Units

Description	Manufacturer	Model No.
Router	NETGEAR	R7800

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)	/
802.11ax (HE 160)	MCS0 (68 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
<p>The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is            5150MHz to 5250MHz: -3.2dBi(Ant22);*            5250MHz to 5350MHz: -3.2dBi(Ant22);*            5470MHz to 5725MHz: -3.2dBi(Ant22);*            5725MHz to 5850MHz: -3.2dBi(Ant22);*</p> <p><i>*Note:</i>            The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</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.</p>	



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## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 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 50Ω/50μH + 5Ω 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 C63.10-2020 on conducted measurement.</li> </ol>		



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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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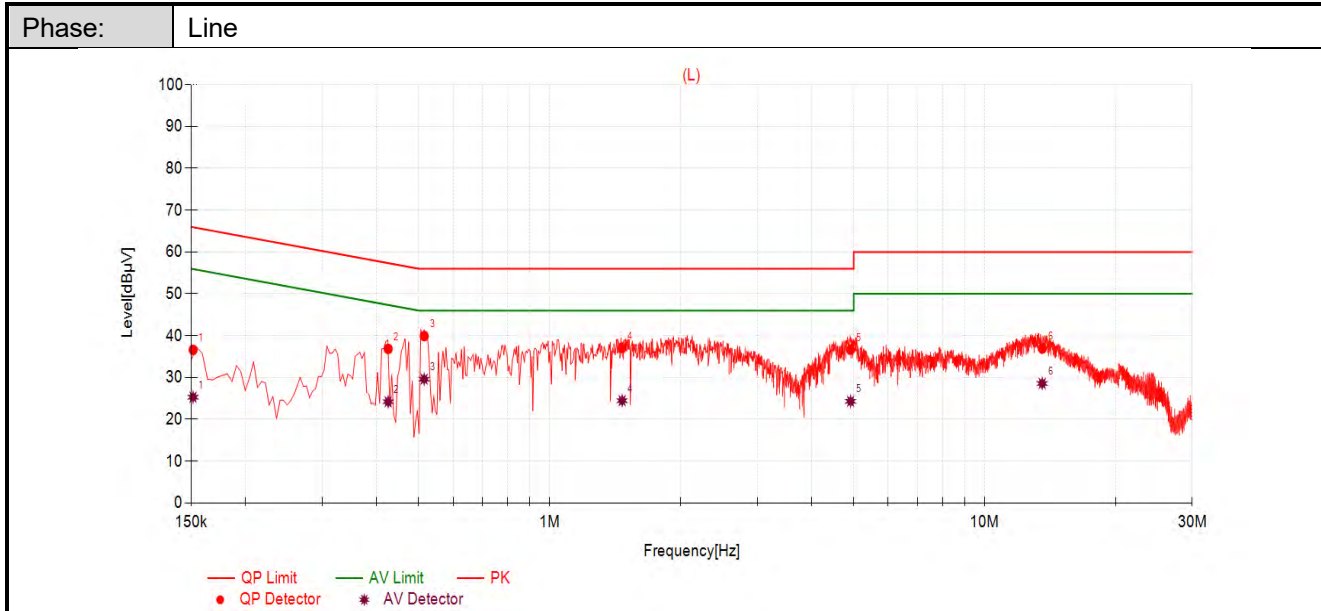


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## Measurement Data

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	0.1514	9.86	26.75	36.61	65.92	29.31	15.43	25.29	55.92	30.63	PASS
2	0.4253	9.86	26.99	36.85	57.34	20.49	14.36	24.22	47.34	23.12	PASS
3	0.5146	9.89	30.02	39.91	56.00	16.09	19.71	29.60	46.00	16.40	PASS
4	1.4677	9.84	27.20	37.04	56.00	18.96	14.63	24.47	46.00	21.53	PASS
5	4.9181	9.89	26.73	36.62	56.00	19.38	14.42	24.31	46.00	21.69	PASS
6	13.5664	10.14	26.80	36.94	60.00	23.06	18.44	28.58	50.00	21.42	PASS

## Remark:

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



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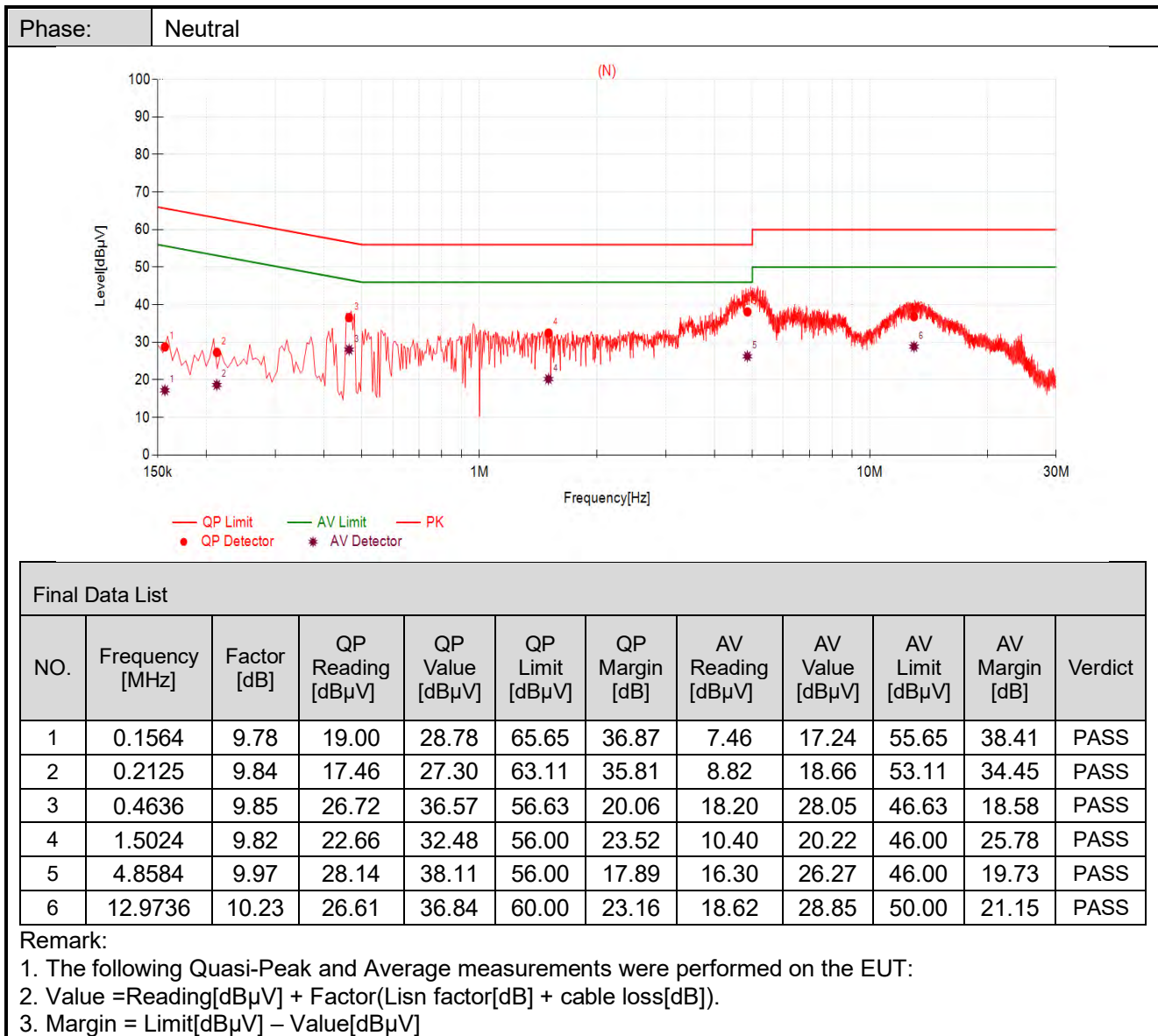
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## 4.3 Duty Cycle

The detailed test data see: **Appendix**



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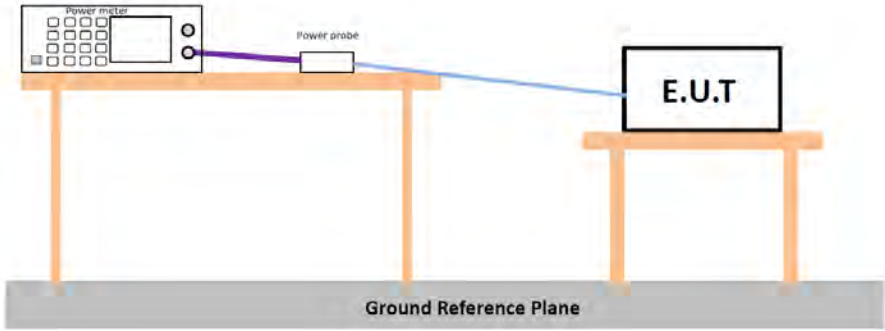
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#### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2020 Section 12.4.3.2	
Test Setup:	 <p>* Test with power meter (Detector function: Average)          Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</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), KDB 789033 D02& C
Test Method:	ANSI C63.10-2020 Section 12.5.2
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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#### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10-2020 Section 12.5.1	
Test Setup:		
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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#### 4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10-2020 Section 12.5.3
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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## 4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F.	
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:	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 C63.10-2020 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

### Test Setup:

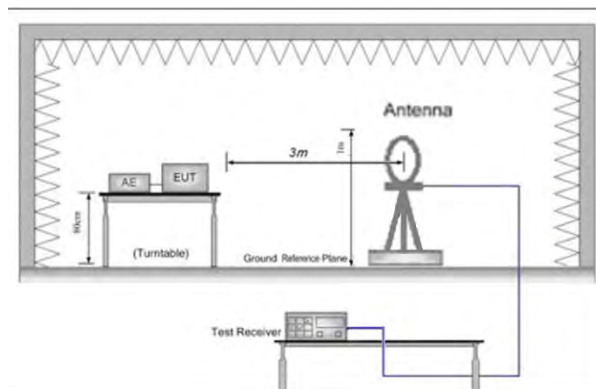


Figure 1. 9kHz to 30MHz

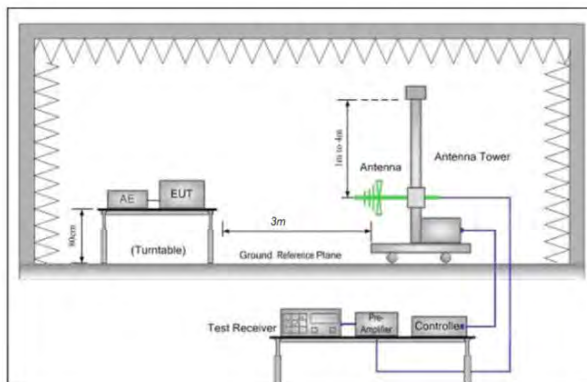


Figure 1. 30MHz to 1GHz

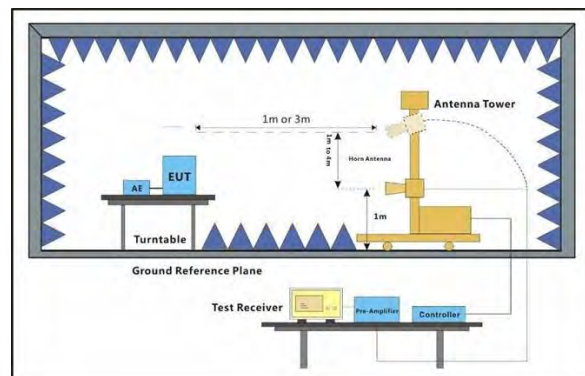


Figure 2. Above 1 GHz

### Test Procedure:

- 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.
- 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 >18GHz).
- 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.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



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	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</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 X 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 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-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 = 10Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq</math> 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</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



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The detailed test data see: **Appendix**



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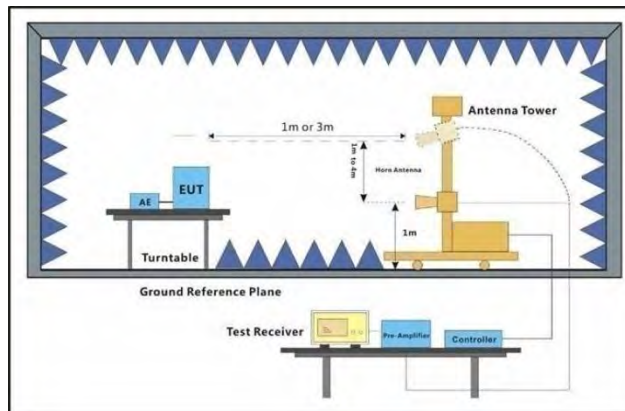
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## 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10-2020 Section 12.7		
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:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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
- Test the EUT in the outermost channels.



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	<p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</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 = Quasi-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 ≥ 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 = 10Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</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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## 4.11 Dynamic Frequency Selection

### 4.11.1 DFS Overview

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

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

**Table 2: Applicability of DFS requirements during normal operation**

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
<b>Additional requirements for devices with multiple bandwidth modes</b>	<b>Master Device or Client with Radar Detection</b>	<b>Client Without Radar Detection</b>
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<b>Note:</b> Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		



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#### 4.11.2 DFS Detection Thresholds

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

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

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
**Note 3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



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### 4.11.3 RADAR TEST WAVEFORMS

**Table 5 – Short Pulse Radar Test Waveforms**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \begin{array}{l} \left( \frac{1}{360} \right) \cdot \\ \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					



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**Table 5a - Pulse Repetition Intervals Values for Test A**

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

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

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



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**Table 6 – Long Pulse Radar Test Waveform**

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

**Table 7 – Frequency Hopping Radar Test Waveform**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

## 4.11.4 Response Requirements

**Table 4: DFS Response Requirement Values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

The detailed test data see: **Appendix**



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

Lab A		
No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 9.84\text{Hz}$
2	Duty cycle	$\pm 0.185\%$
3	Occupied Bandwidth	$\pm 0.20\%$
4	RF conducted power	$\pm 0.42\text{dB}$
5	RF power density	$\pm 1.97\text{dB}$
6	Conducted Spurious emissions	$\pm 0.42\text{dB}$

**Remark:**

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

Lab B		
No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.6\text{dB}$ (9kHz to 30MHz)
		$\pm 4.9\text{dB}$ (30MHz to 1GHz)
		$\pm 4.9\text{dB}$ (1GHz to 6GHz)
		$\pm 4.7\text{dB}$ (6GHz to 18GHz)
		$\pm 5.26\text{dB}$ (Above 18GHz)

**Remark:**

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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## 6 Equipment List

Lab A RF Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2022/11/18	2023/11/17
Signal Generator	Keysight	N5181A	SZ-WRG-M-005	2022/11/18	2023/11/17
DC power supply	Tonscend	TS0806-4ADC	SZ-WRG-A-007	NCR	NCR
RF Control Unit	Tonscend	JS0806-2	SZ-WRG-M-008	2022/11/18	2023/11/17
Radio Communication Tester	Rohde & Schwarz	CMW270	SZ-WRG-M-009	2023/02/16	2024/02/15
Radio Communication Tester	Rohde & Schwarz	CMW-Z800A	SZ-WRG-M-010	NCR	NCR
Signal Generator	Rohde & Schwarz	SMM100A	SZ-WRG-M-011	2023/02/22	2024/02/21
Test Software	Tonscend	JS1120 V3.2.22	N/A	NCR	NCR
Humidity/Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2022/07/06	2023/07/05
Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2023/02/16	2024/02/15

Lab B CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29



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Lab B RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal. Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2022/05/24	2023/05/23
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2022/05/24	2023/05/23
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2023/05/25



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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## Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a	Ant22	5180	24.12	5168.04	5192.16	For Report Purpose
		5220	30.88	5206.16	5237.04	
		5240	26.36	5228.00	5254.36	
		5260	30.16	5246.16	5276.32	
		5300	26.00	5287.52	5313.52	
		5320	24.56	5307.60	5332.16	
		5500	23.92	5488.16	5512.08	
		5580	27.40	5566.16	5593.56	
		5700	23.72	5688.12	5711.84	
		5720	26.40	5707.24	5733.64	
		5720 UNII-2C	17.76	5707.24	5725	
		5720 UNII-3	8.64	5725	5733.64	
		5745	27.16	5731.12	5758.28	
		5785	28.68	5770.52	5799.20	
		5825	28.44	5809.84	5838.28	
11n20SISO	Ant22	5180	25.36	5167.52	5192.88	For Report Purpose
		5220	32.68	5205.48	5238.16	
		5240	34.24	5224.24	5258.48	
		5260	32.60	5245.00	5277.60	
		5300	26.80	5287.12	5313.92	
		5320	24.44	5307.92	5332.36	
		5500	25.16	5487.56	5512.72	
		5580	25.96	5567.44	5593.40	
		5700	23.84	5688.08	5711.92	
		5720	25.96	5707.48	5733.44	
		5720 UNII-2C	17.52	5707.48	5725	
		5720 UNII-3	8.44	5725	5733.44	
		5745	26.24	5732.20	5758.44	
		5785	26.88	5771.96	5798.84	
		5825	26.96	5811.80	5838.76	
11n40SISO	Ant22	5190	42.24	5168.96	5211.20	For Report Purpose
		5230	42.24	5209.12	5251.36	
		5270	42.32	5248.96	5291.28	
		5310	41.84	5289.20	5331.04	
		5510	41.76	5489.12	5530.88	
		5550	42.16	5529.04	5571.20	
		5670	42.08	5649.12	5691.20	
		5710	41.92	5689.12	5731.04	
		5710 UNII-2C	35.88	5689.12	5725	
		5710 UNII-3	6.04	5725	5731.04	
		5755	49.36	5727.48	5776.84	
5795	42.00	5773.88	5815.88			
11ac20SISO	Ant22	5180	23.88	5168.08	5191.96	For Report Purpose
		5220	28.04	5207.40	5235.44	
		5240	29.36	5226.52	5255.88	
		5260	26.36	5248.00	5274.36	
		5300	24.92	5288.04	5312.96	
		5320	23.08	5308.60	5331.68	
		5500	23.16	5488.68	5511.84	



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		5580	23.32	5568.68	5592.00		
		5700	22.84	5688.56	5711.40		
		5720	24.36	5708.40	5732.76		
		5720 UNII-2C	16.6	5708.40	5725		
		5720 UNII-3	7.76	5725	5732.76		
		5745	23.32	5733.80	5757.12		
		5785	24.00	5773.16	5797.16		
		5825	23.36	5813.36	5836.72		
11ac40SISO	Ant22	5190	41.92	5169.20	5211.12		
		5230	42.08	5209.20	5251.28		
		5270	42.08	5249.12	5291.20		
		5310	41.92	5289.04	5330.96		
		5510	42.32	5488.96	5531.28		
		5550	42.08	5529.12	5571.20		
		5670	41.92	5649.04	5690.96		
		5710	41.92	5689.04	5730.96		
		5710 UNII-2C	35.96	5689.04	5725		
		5710 UNII-3	5.96	5725	5730.96		
		5755	42.24	5733.72	5775.96		
		5795	42.08	5773.96	5816.04		
		11ac80SISO	Ant22	5210	83.36	5168.72	5252.08
				5290	83.52	5248.56	5332.08
5530	83.04			5488.56	5571.60		
5610	83.20			5568.40	5651.60		
5690	83.84			5648.24	5732.08		
5690 UNII-2C	76.76			5648.24	5725		
5690 UNII-3	7.08			5725	5732.08		
5775	84.00			5732.92	5816.92		



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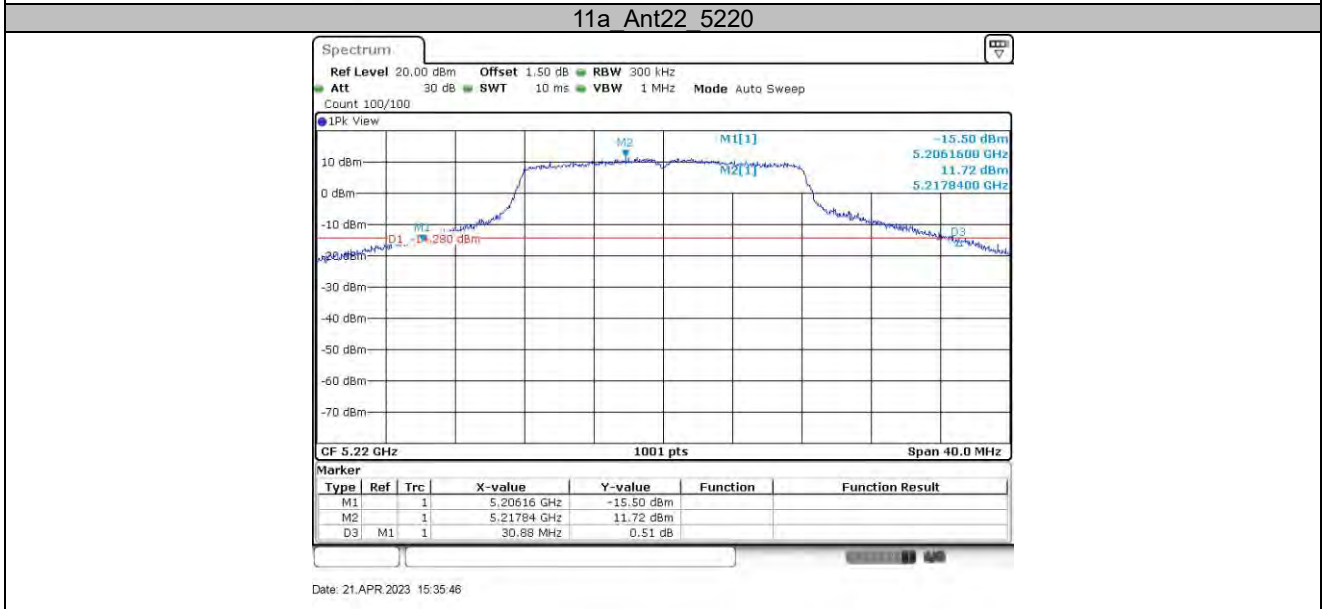
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**Test Graphs**



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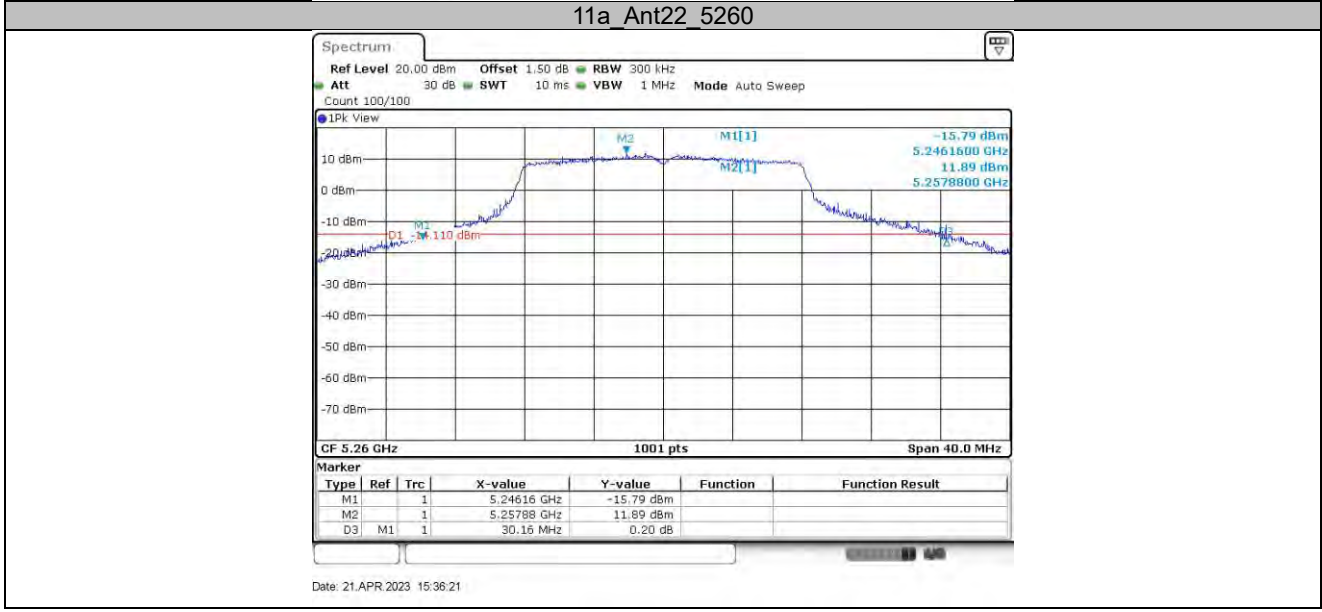
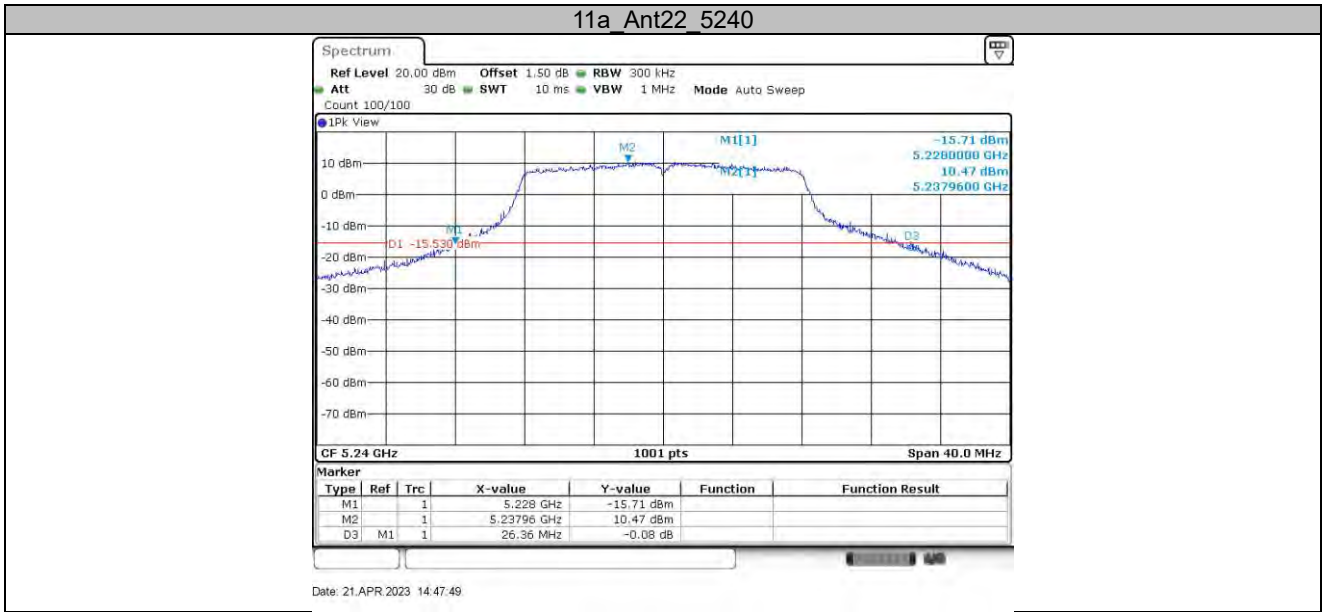
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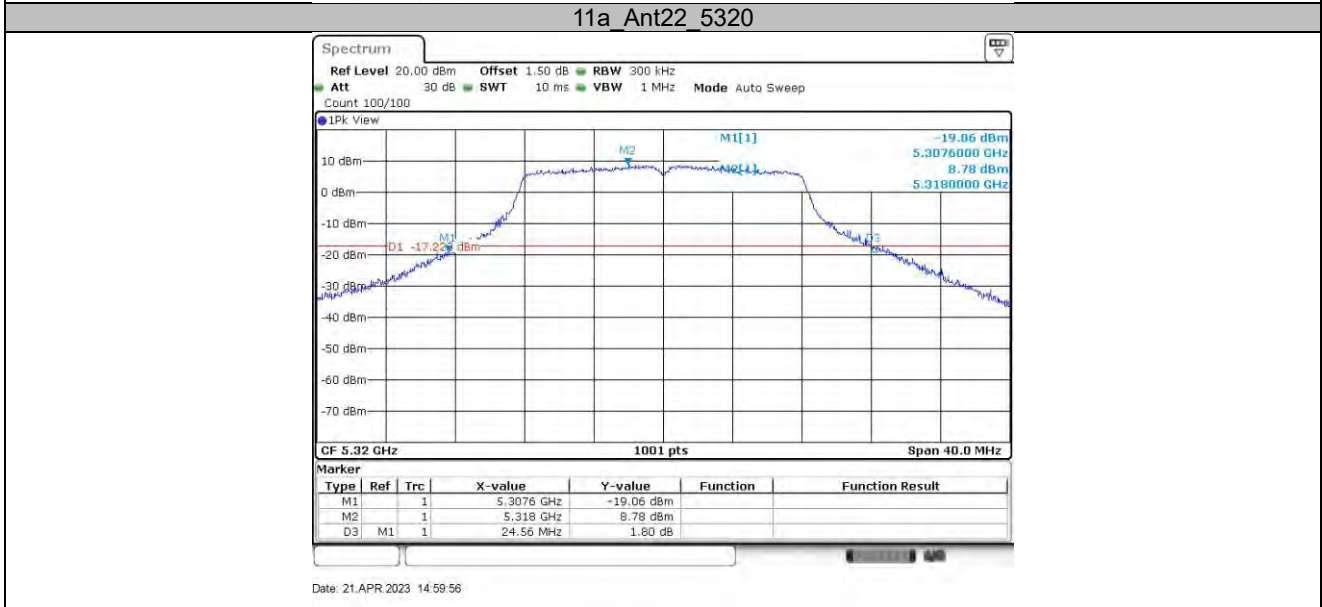
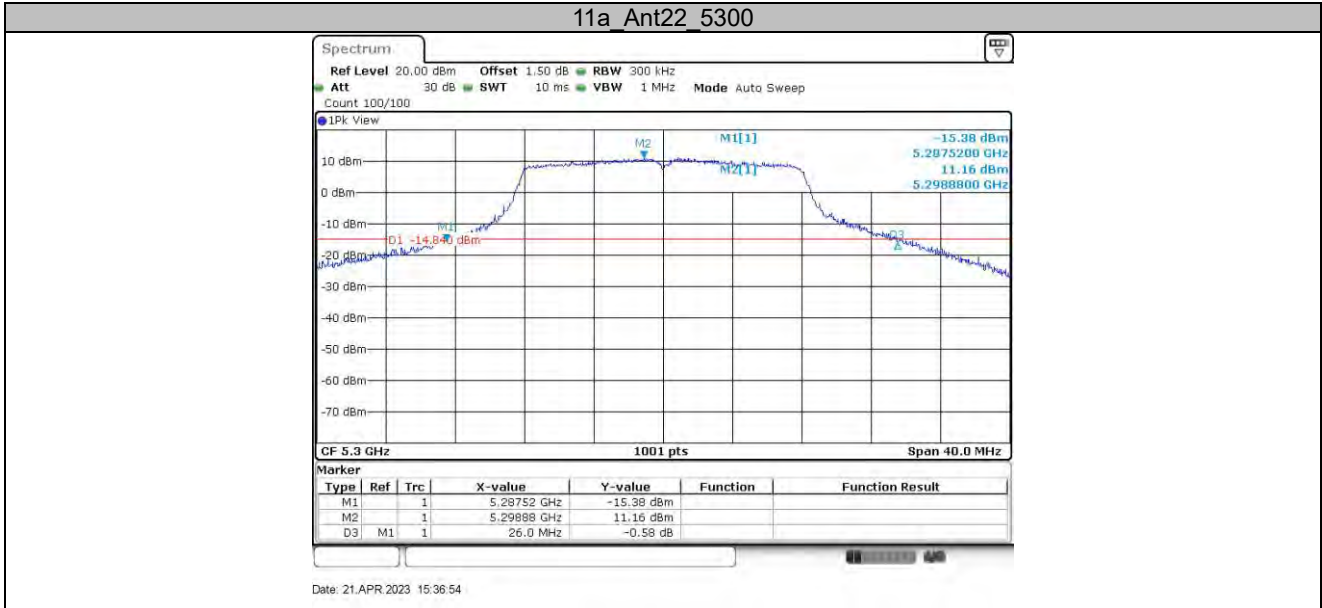
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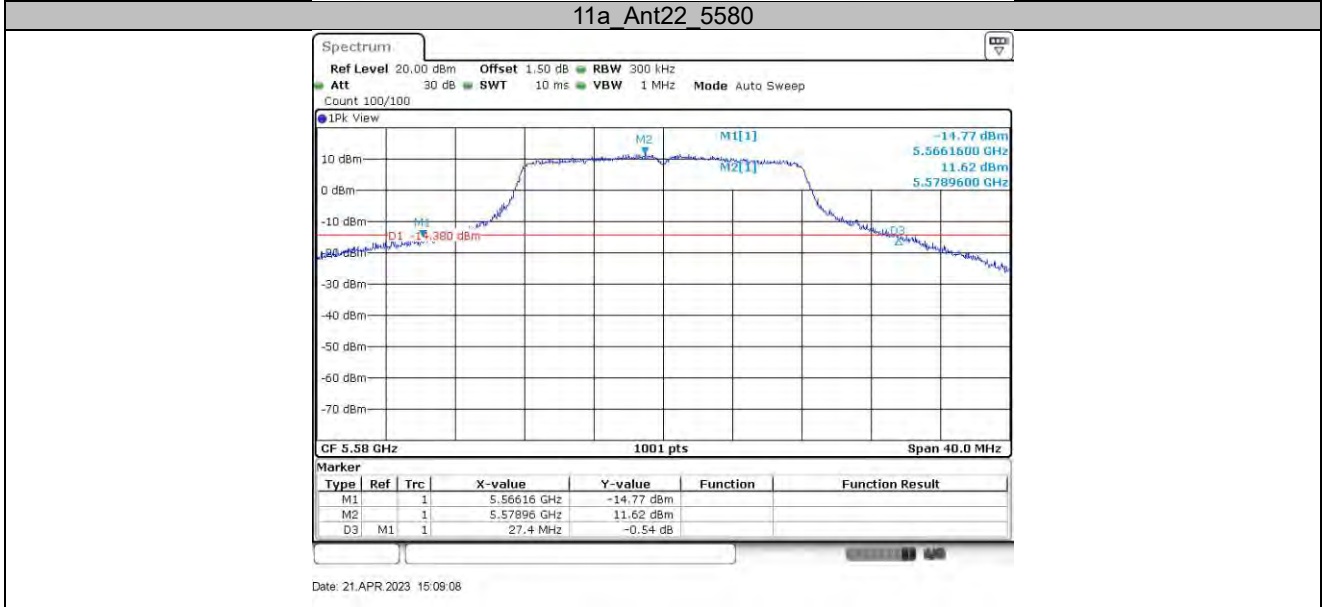
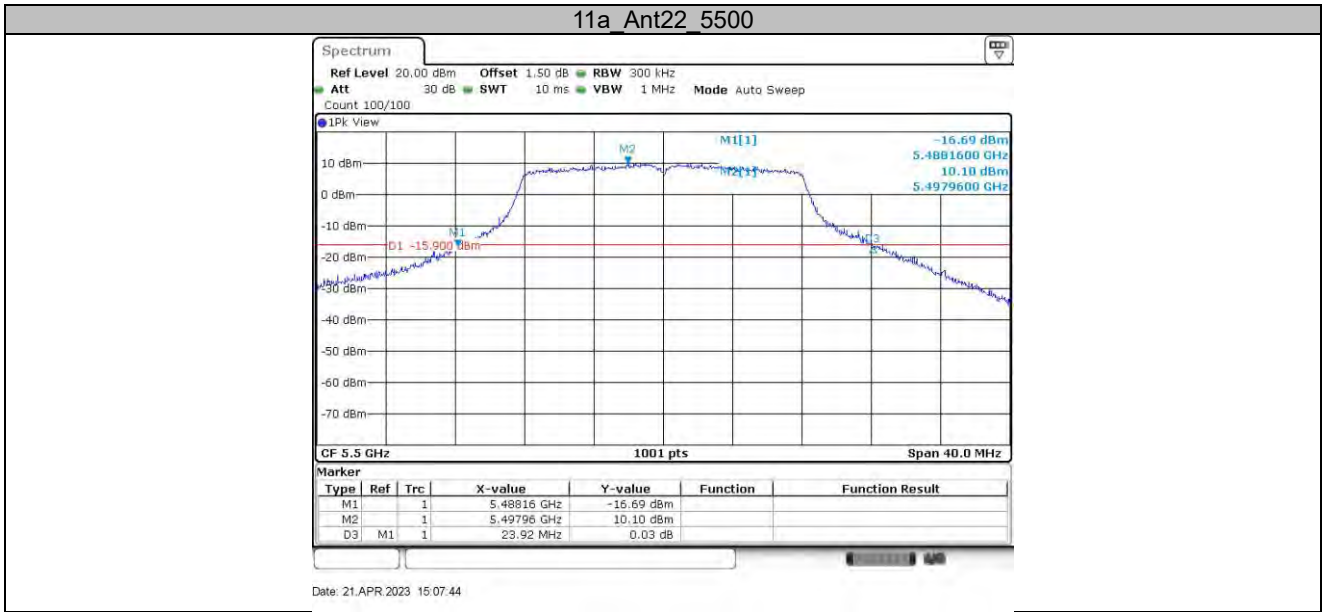
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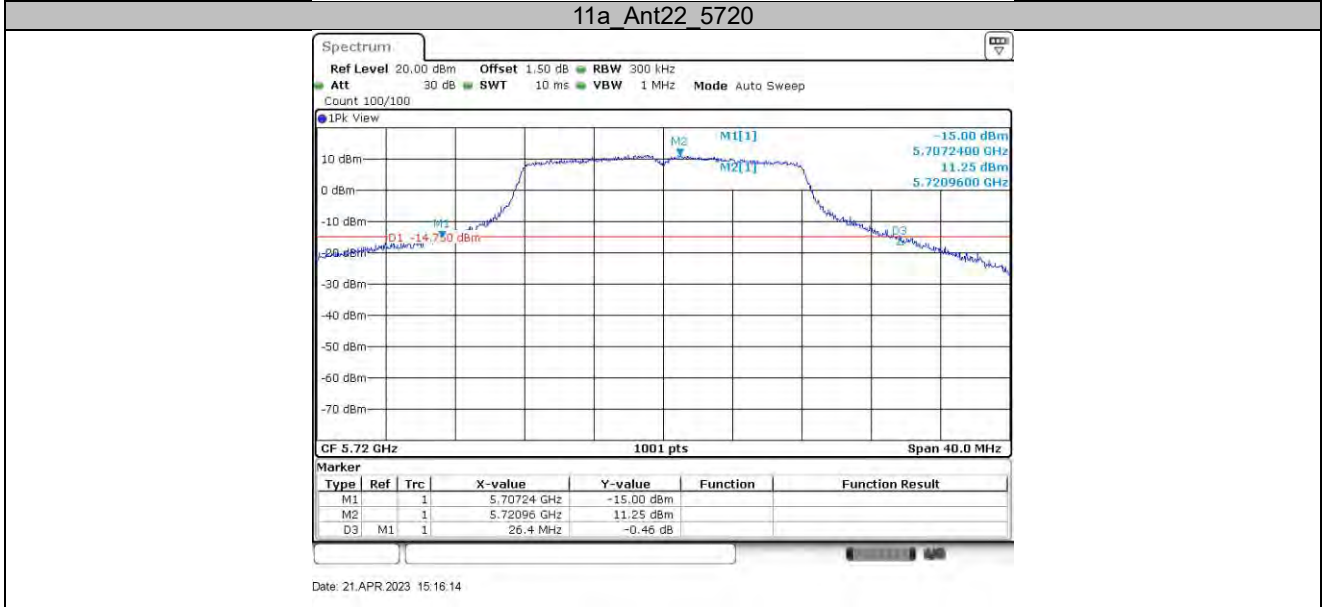
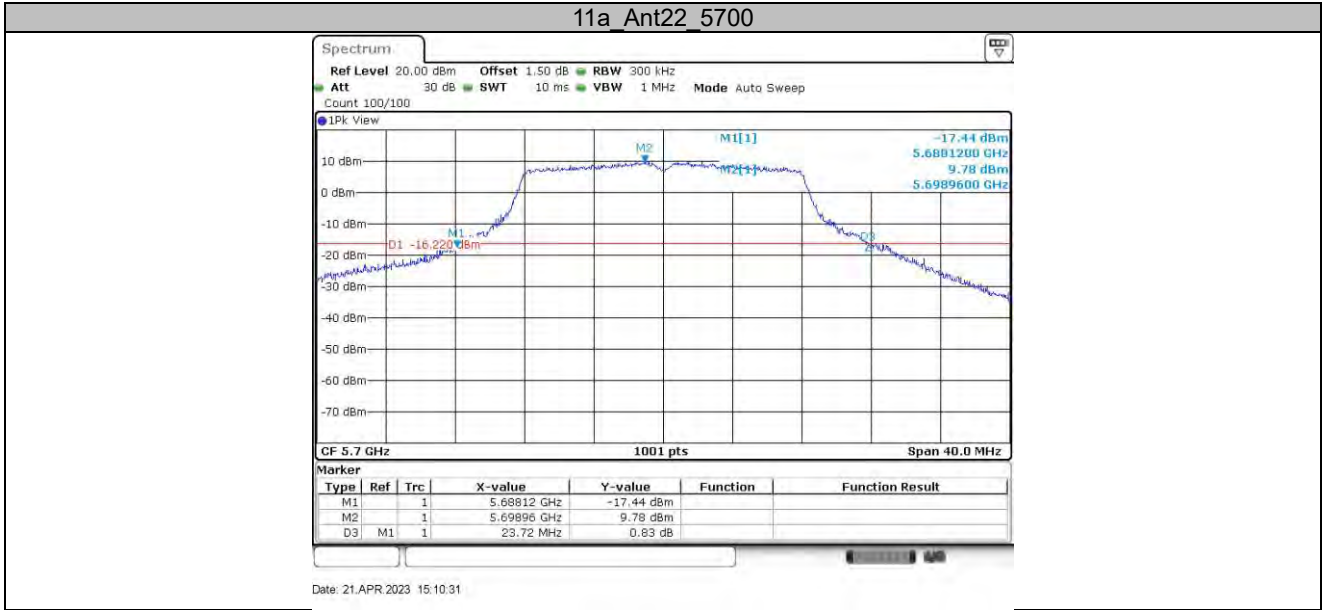
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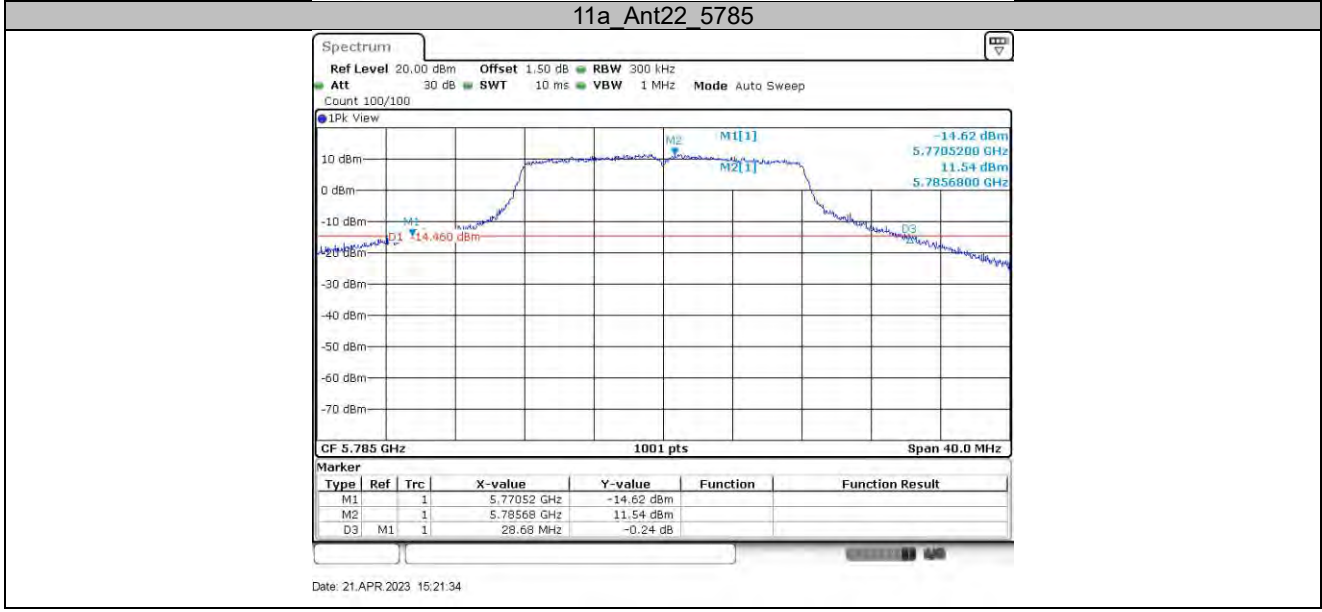
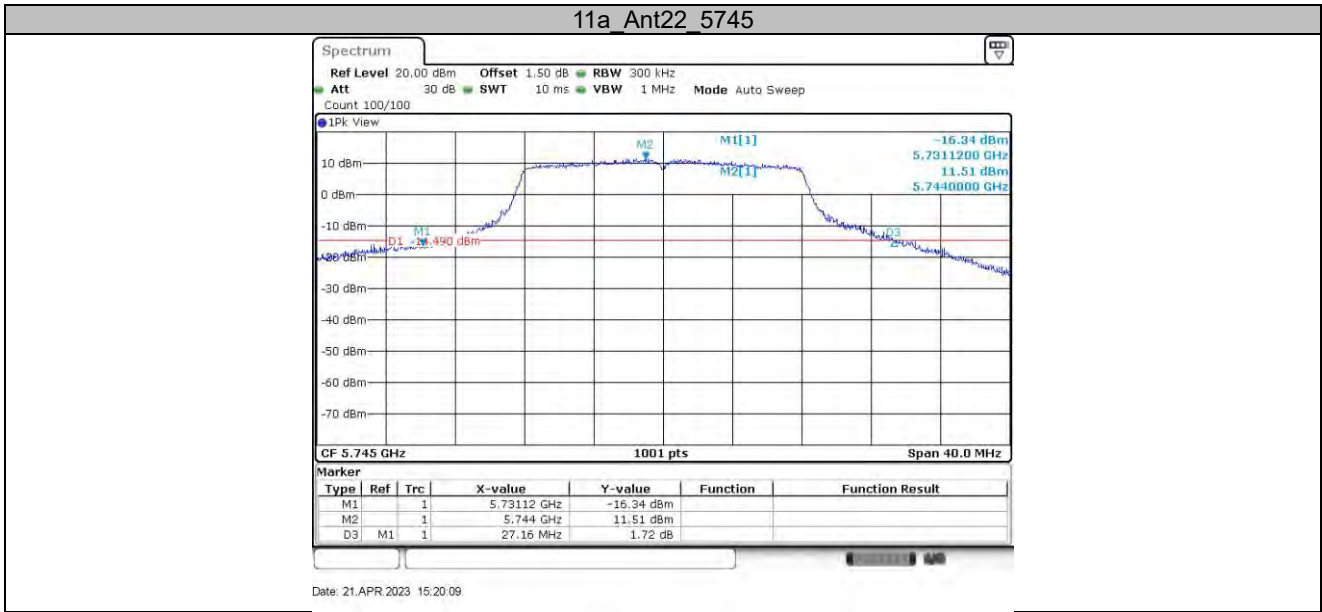
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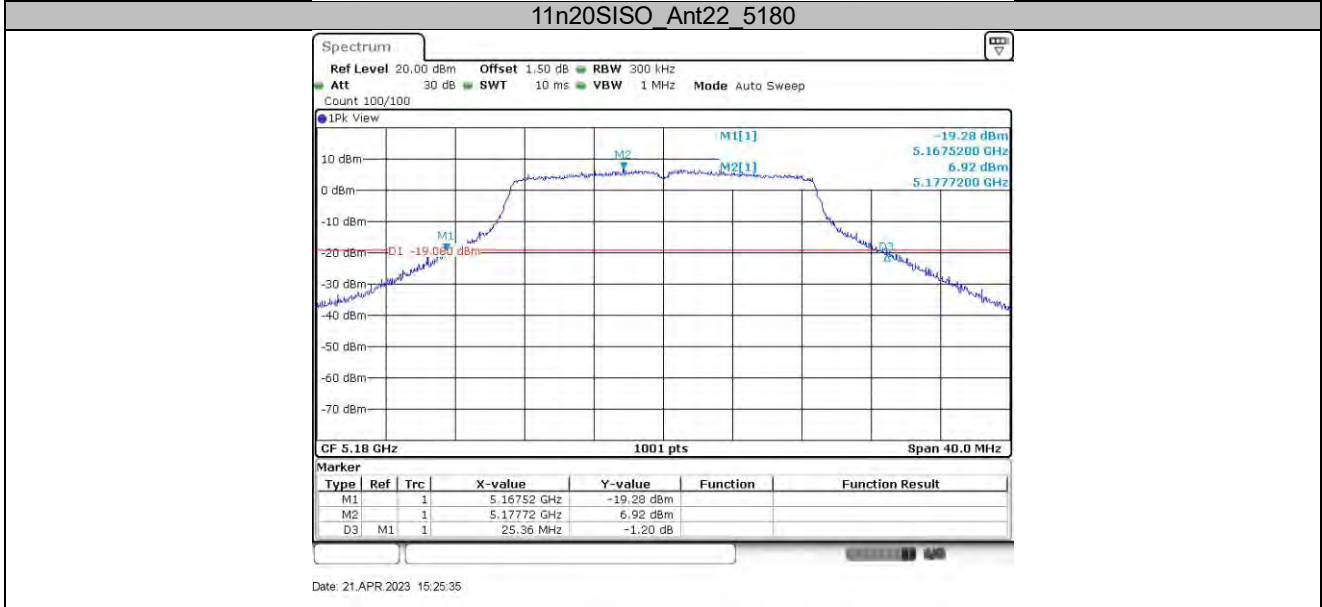
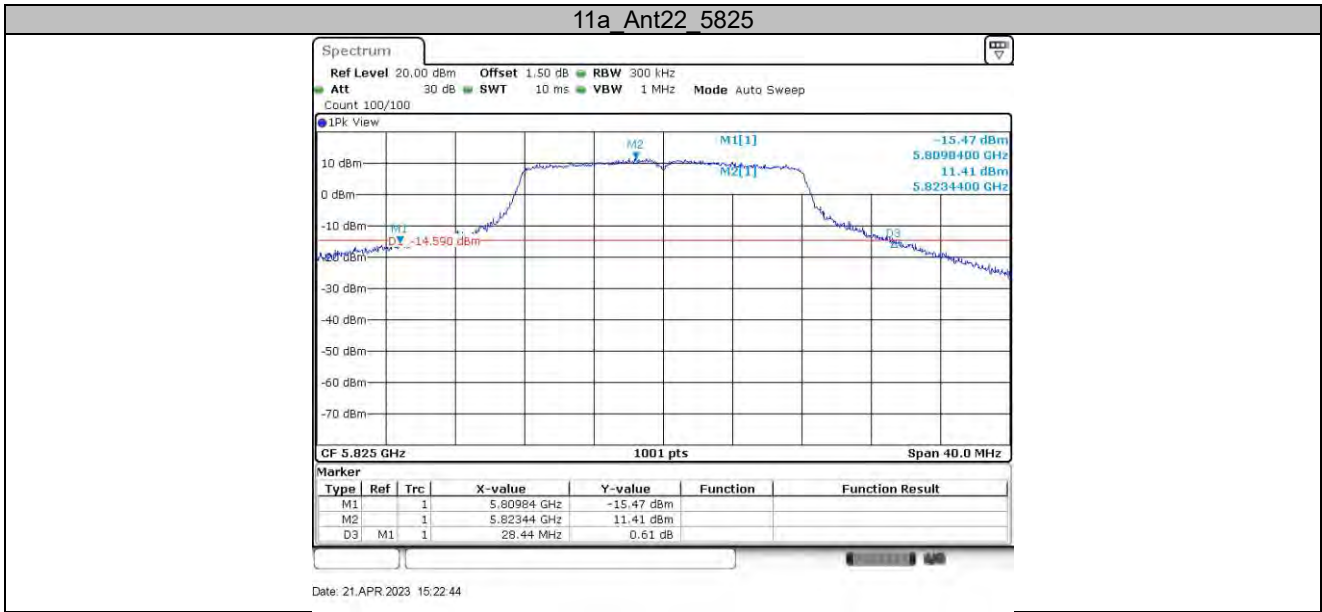
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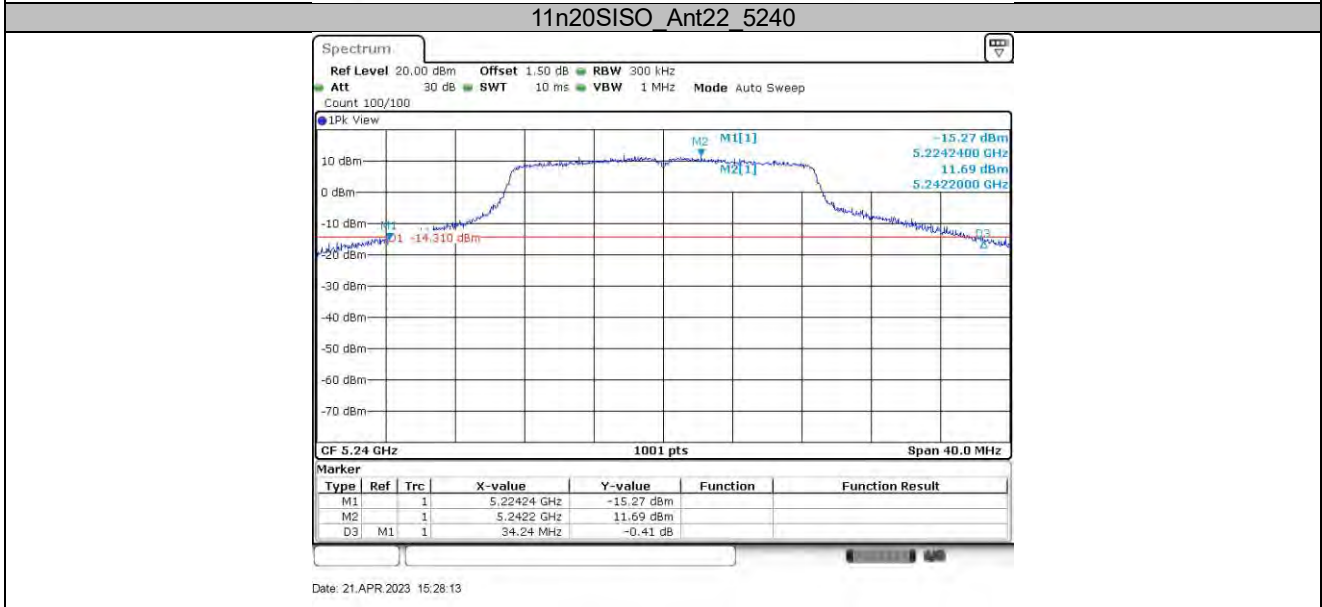
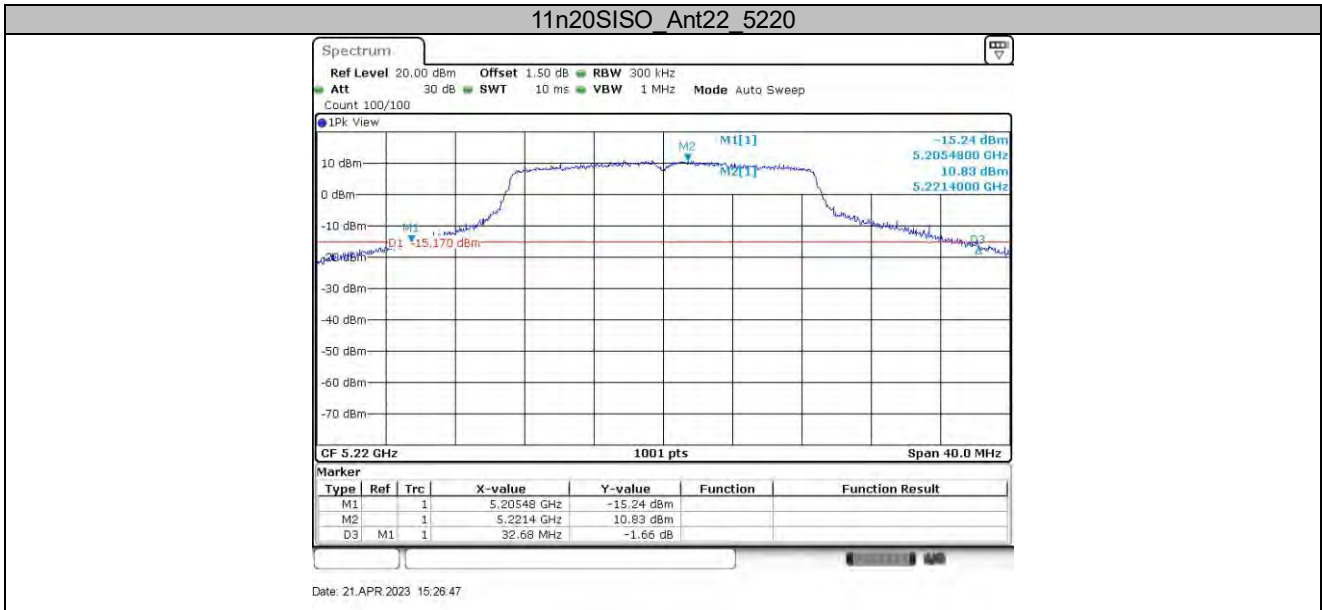
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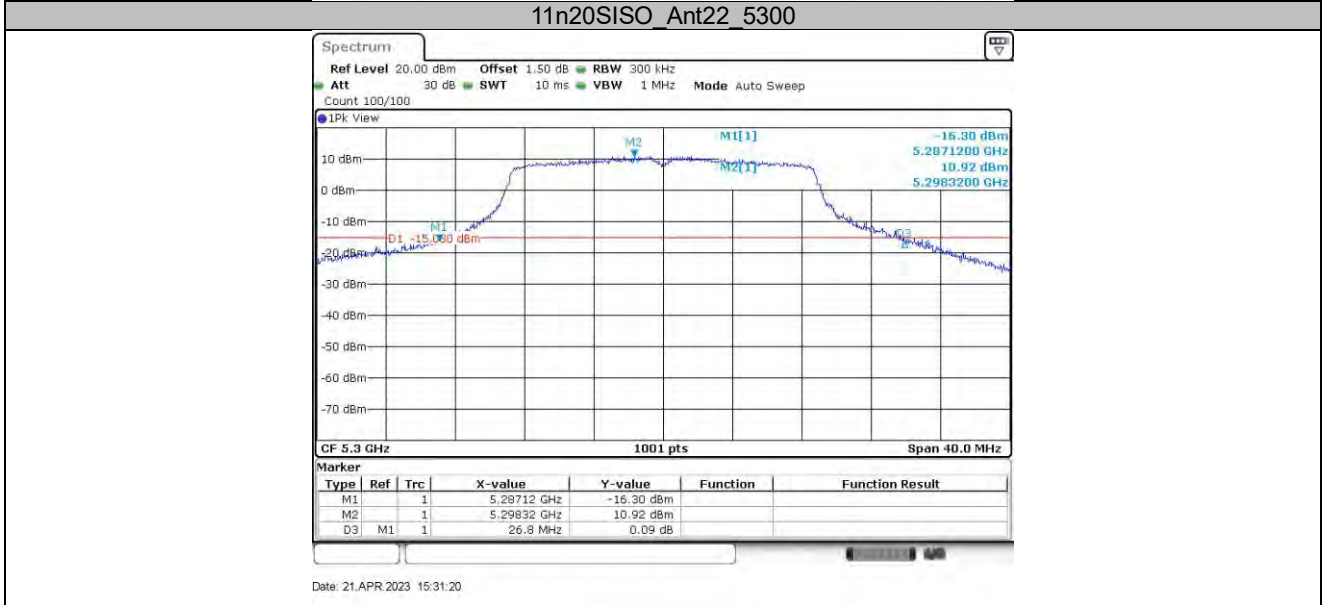
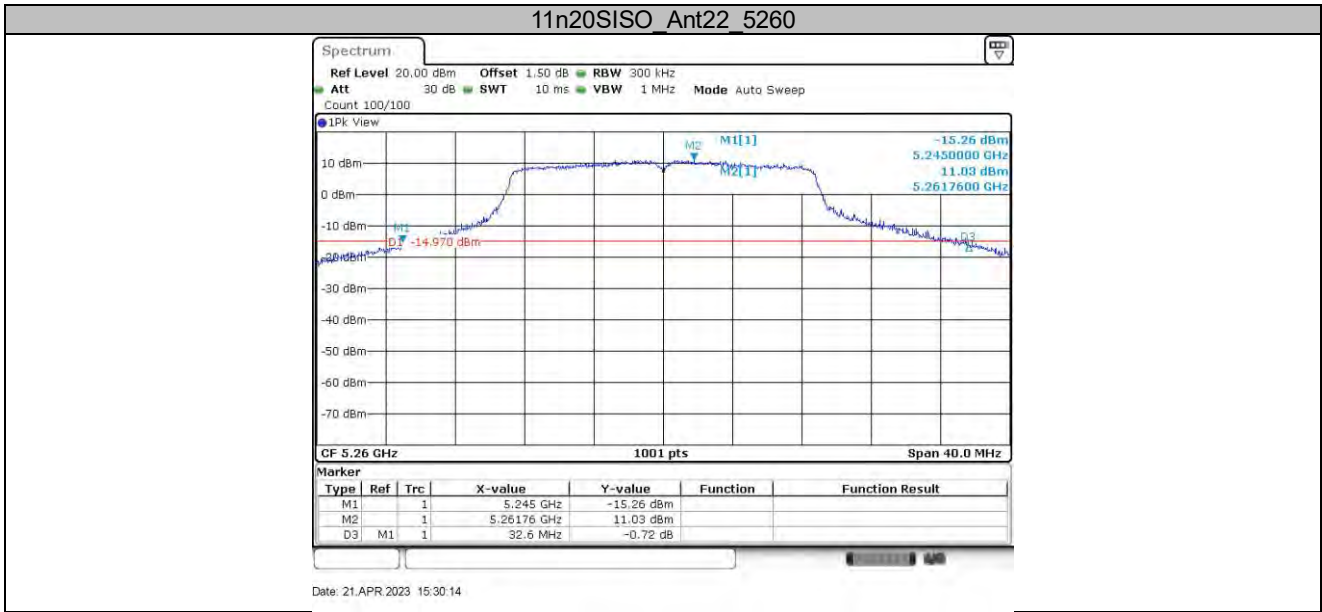
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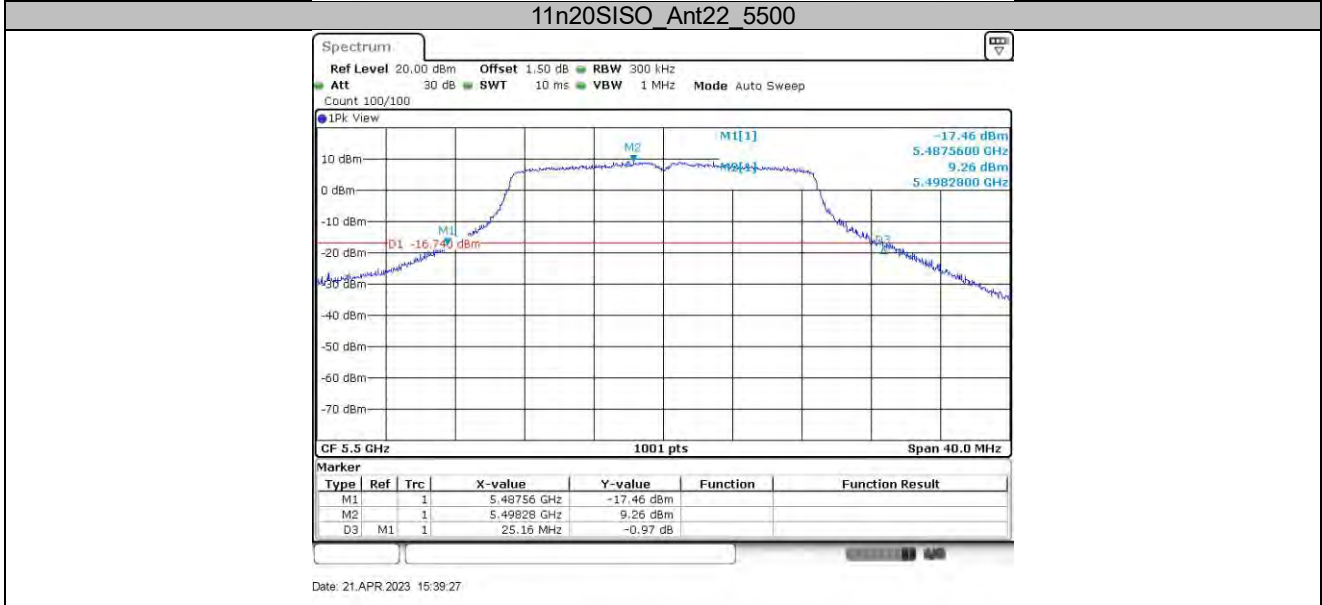
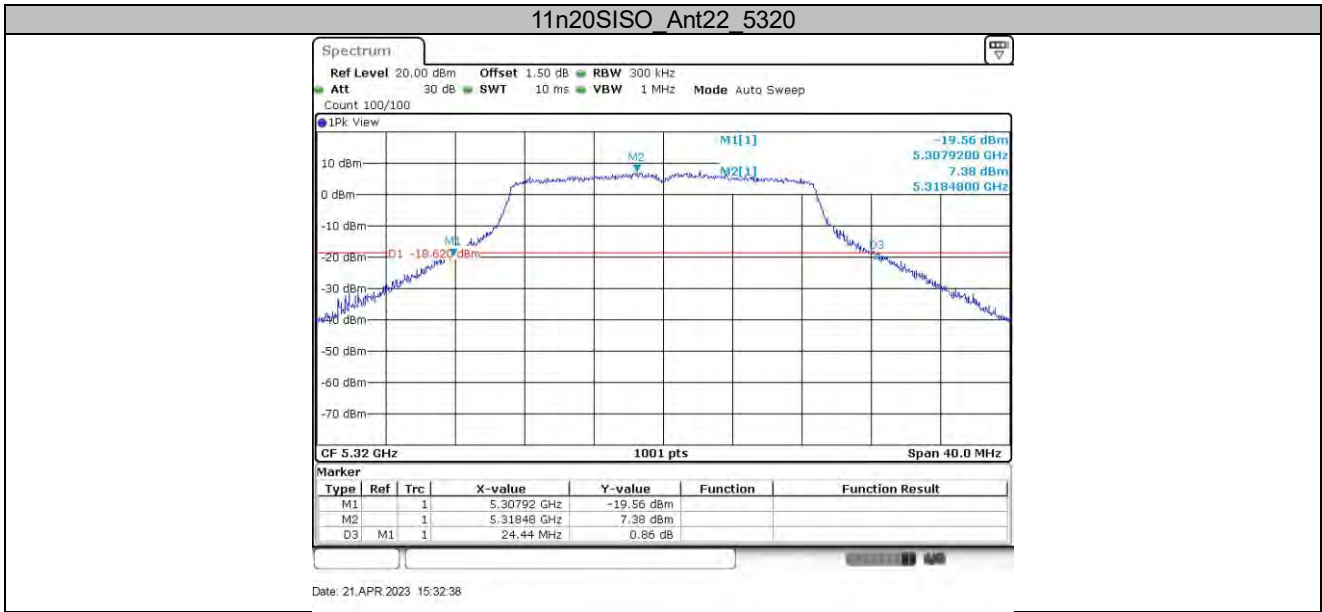
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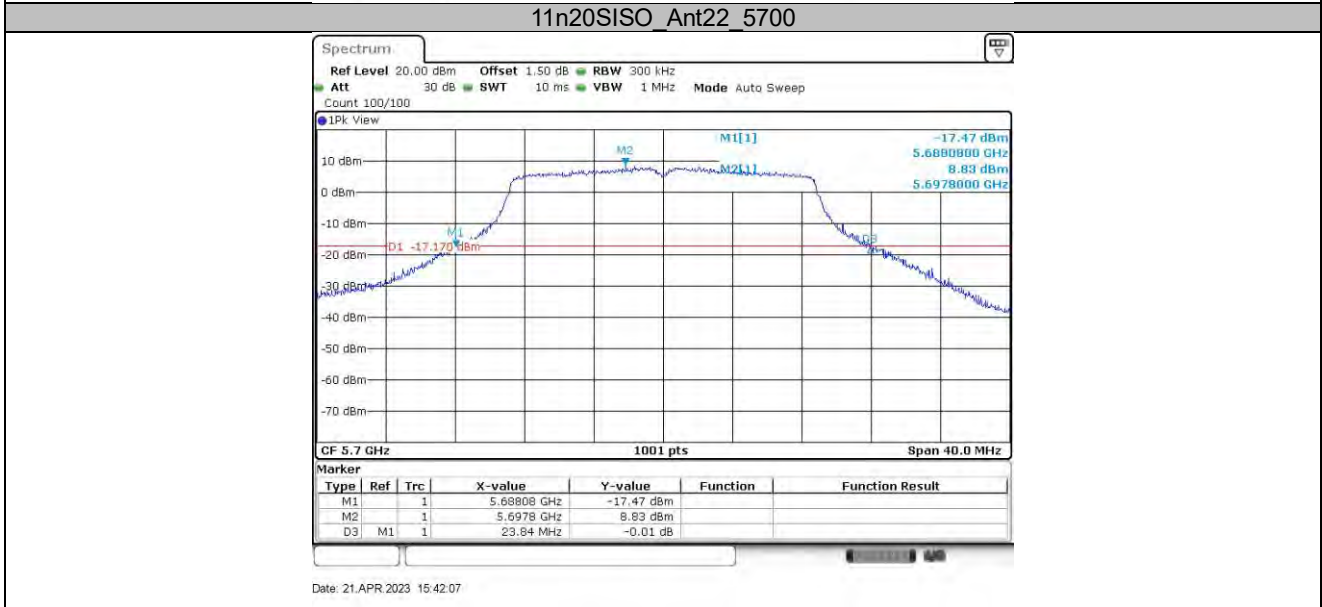
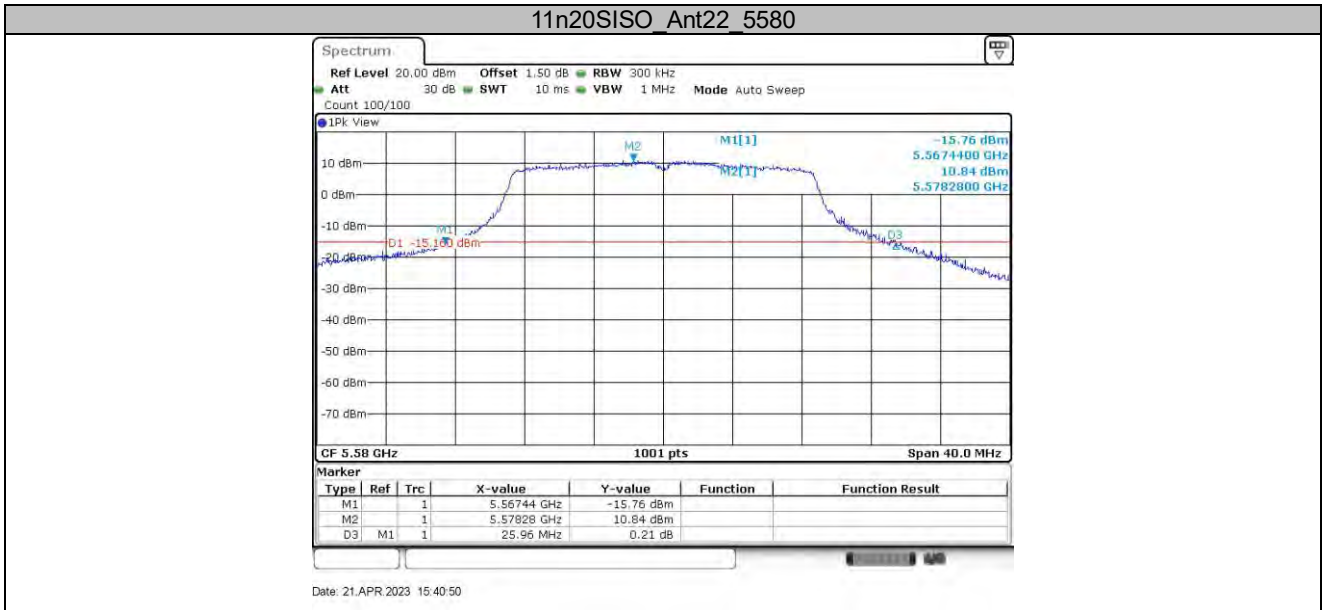
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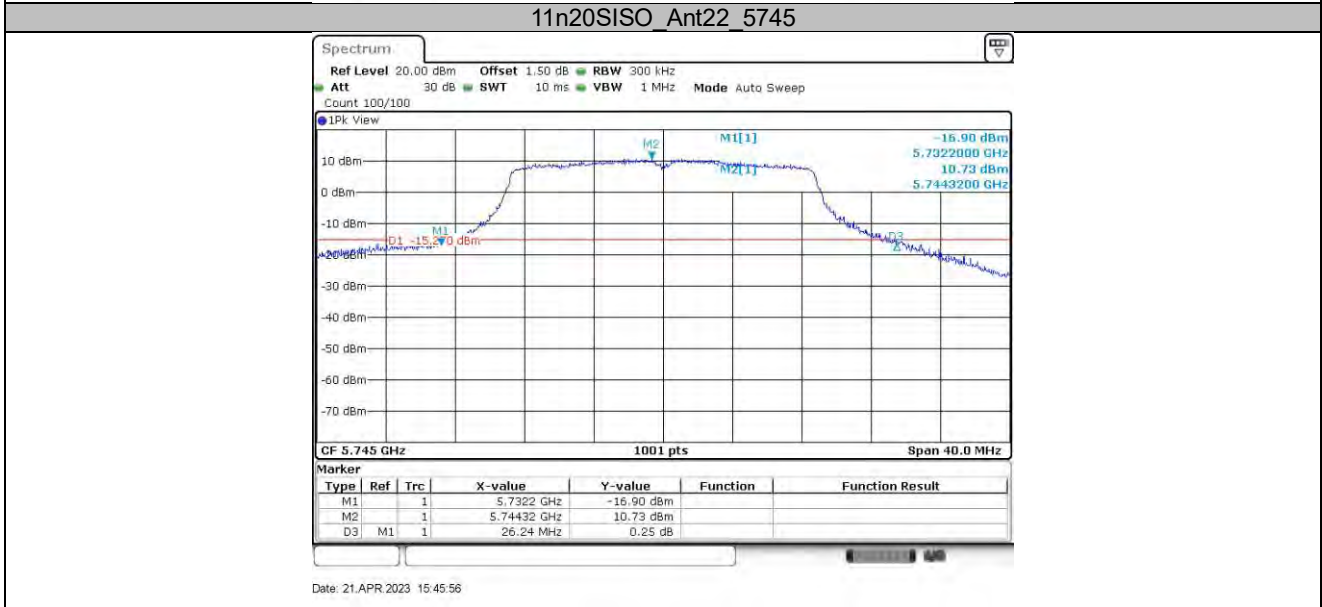
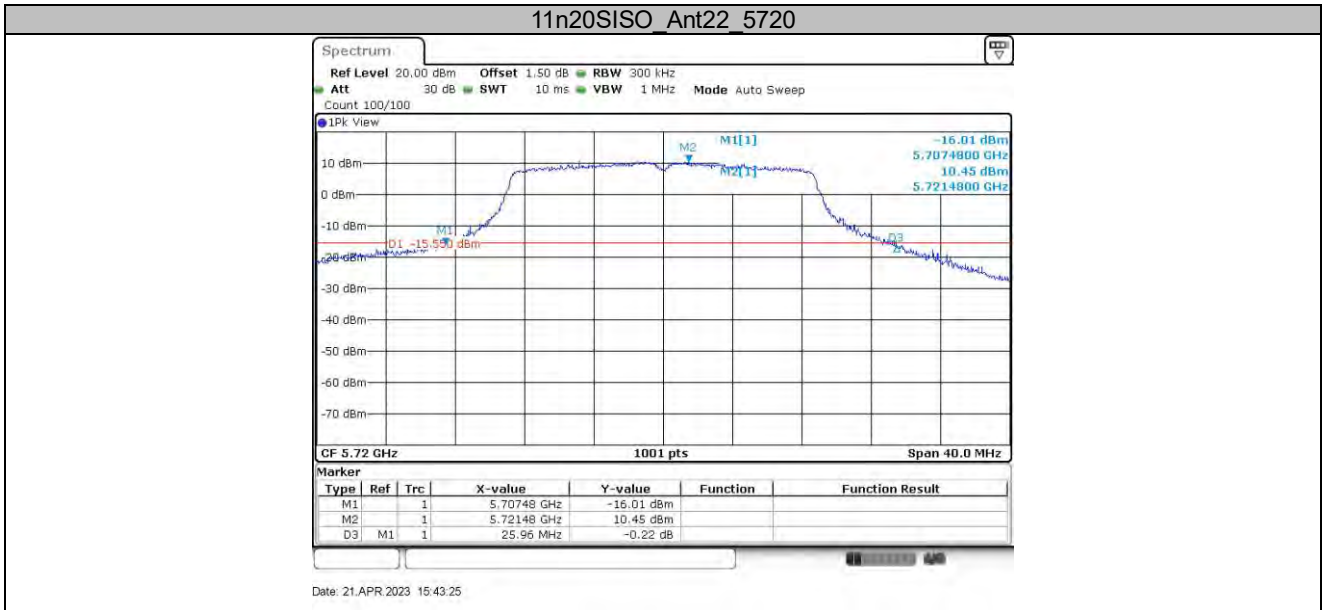
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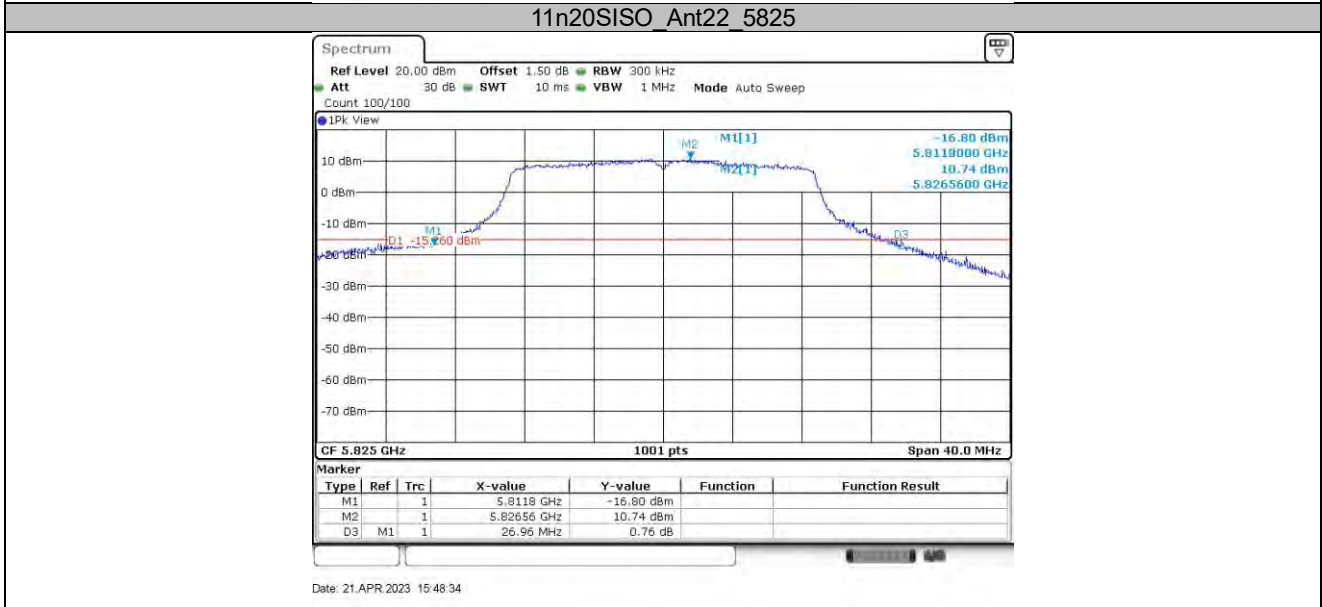
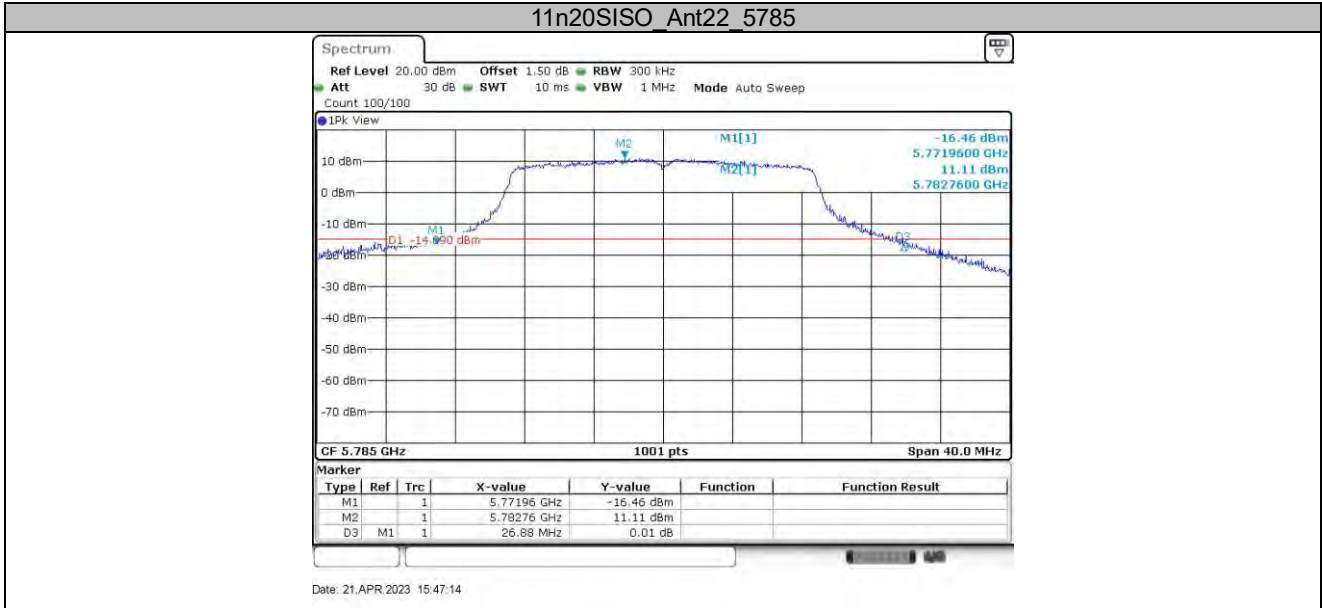
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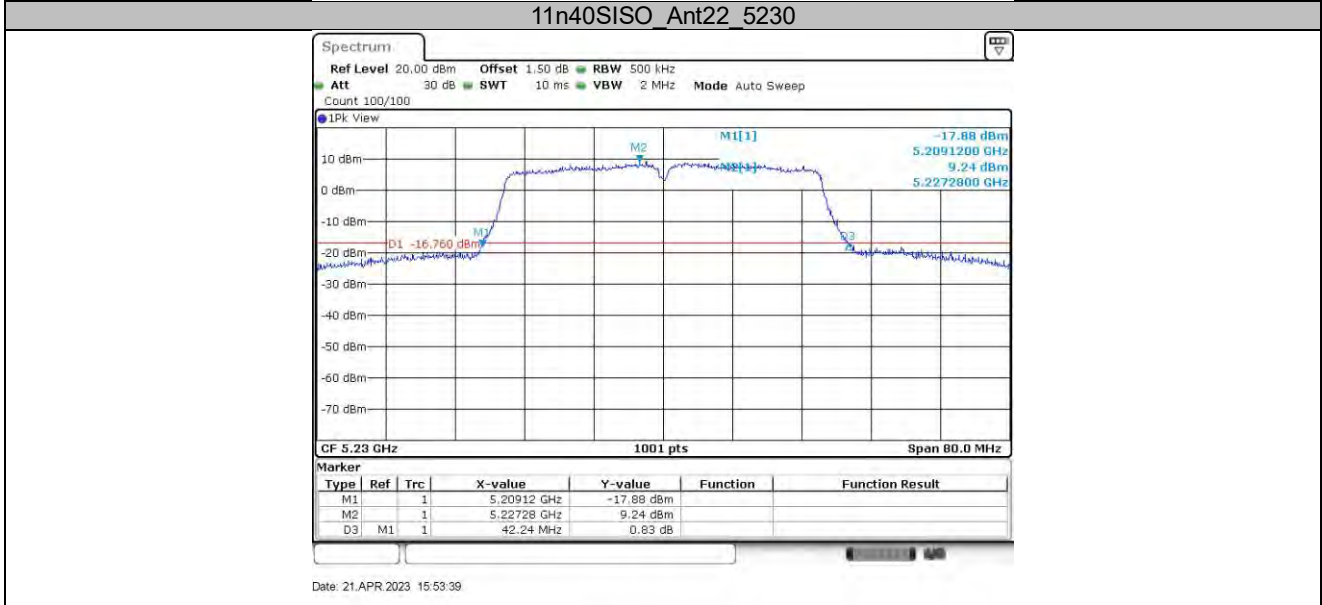
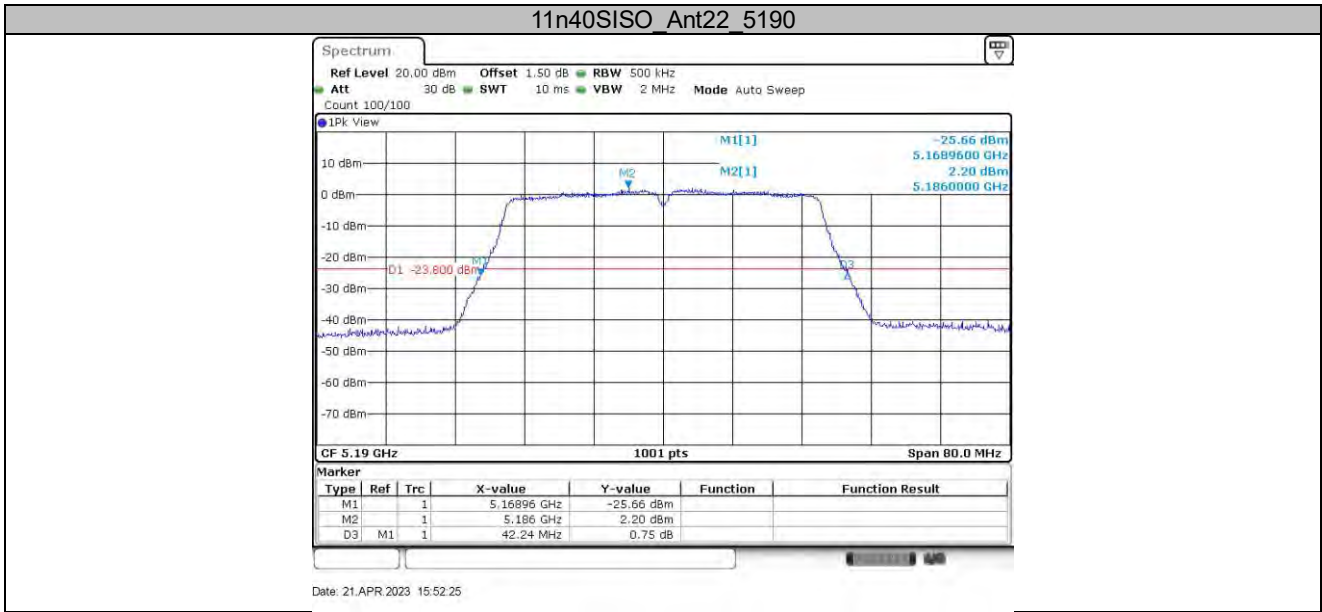
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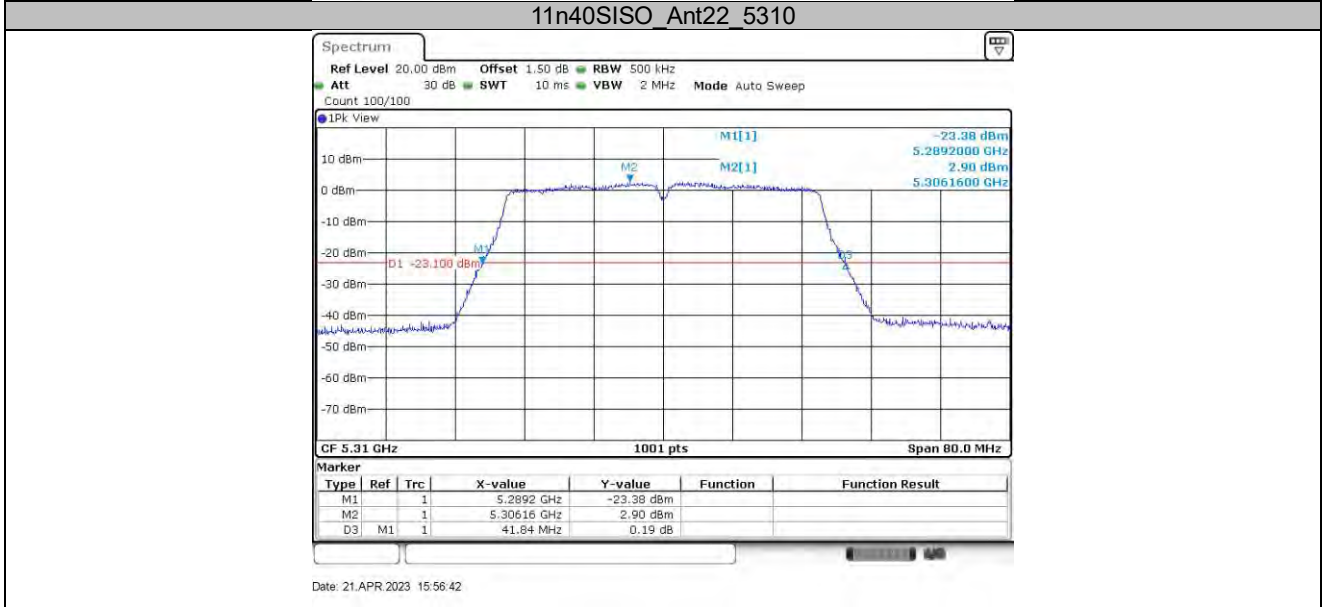
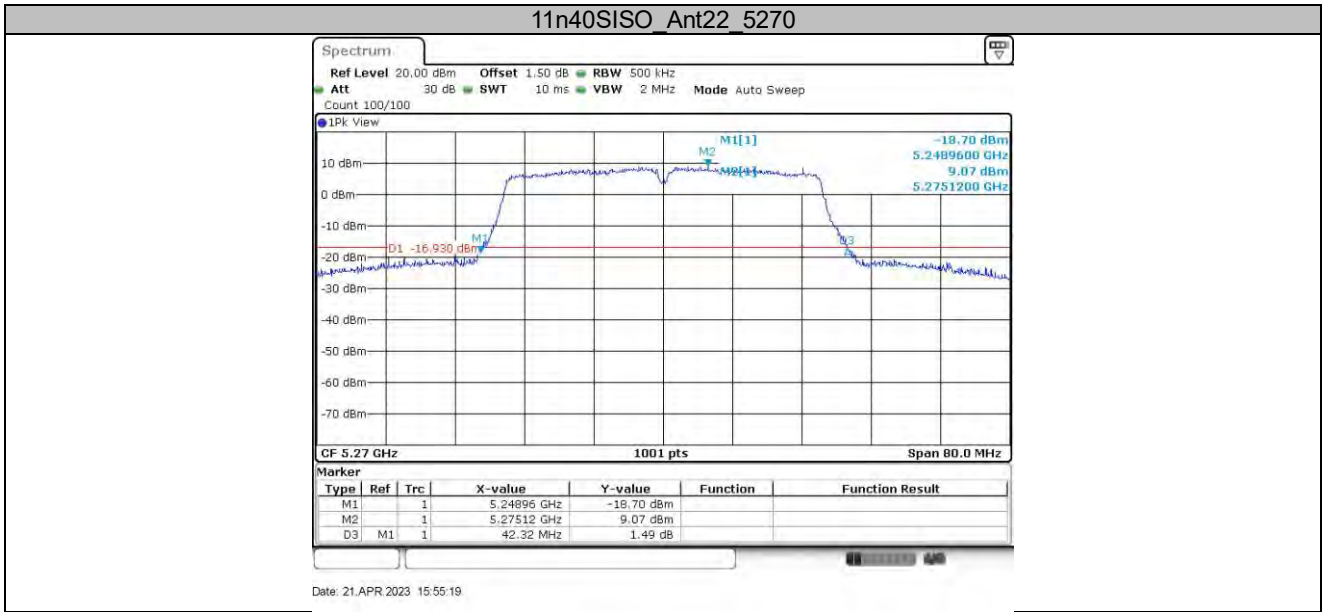
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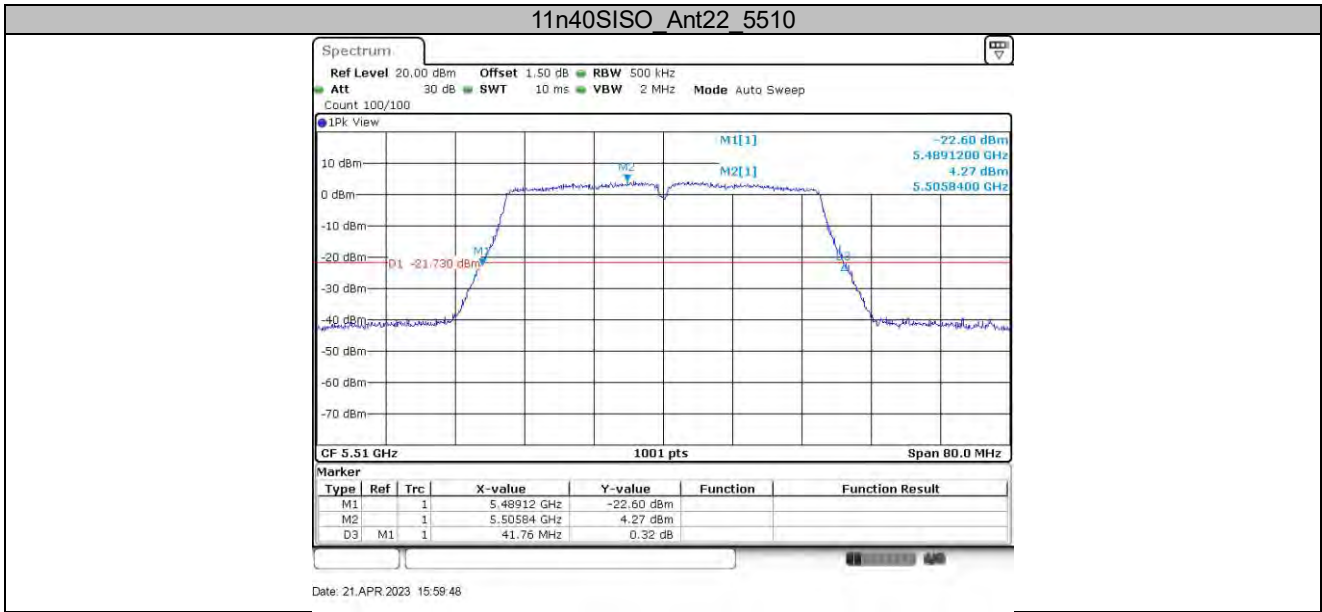
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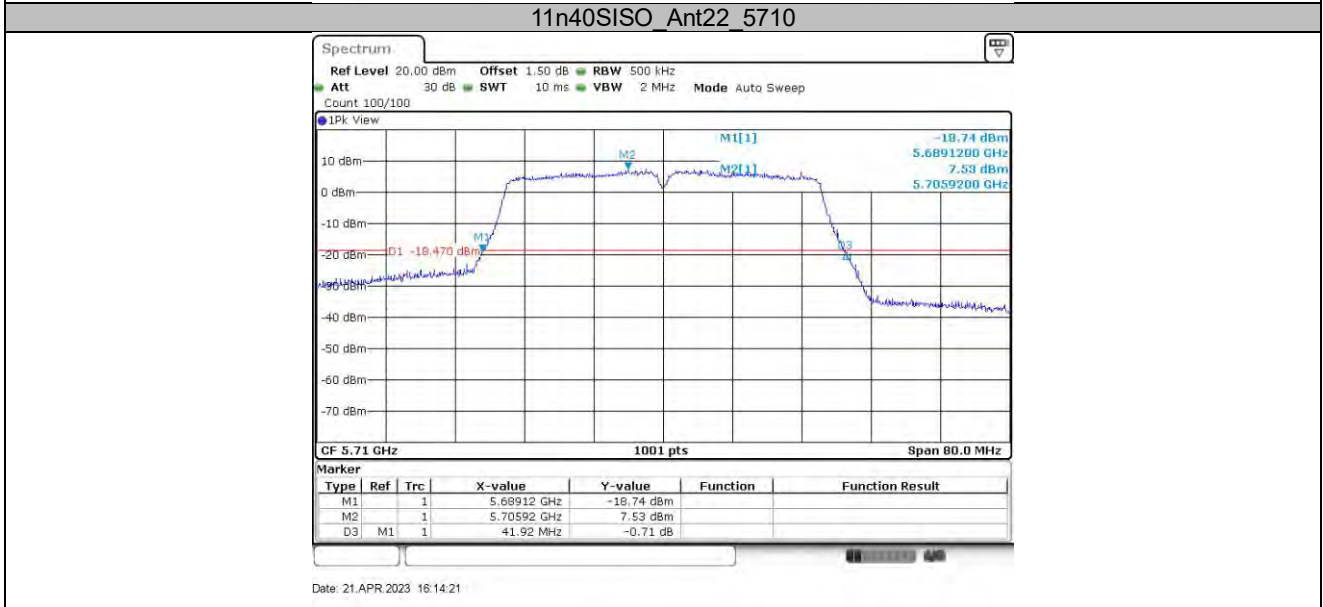
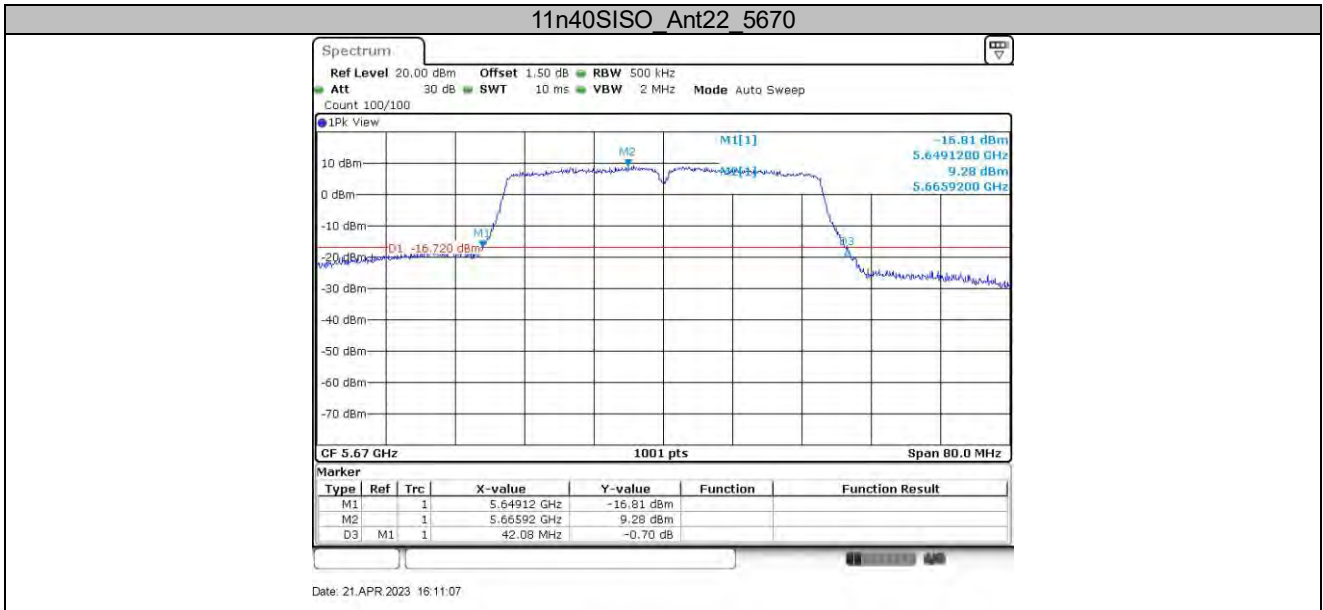
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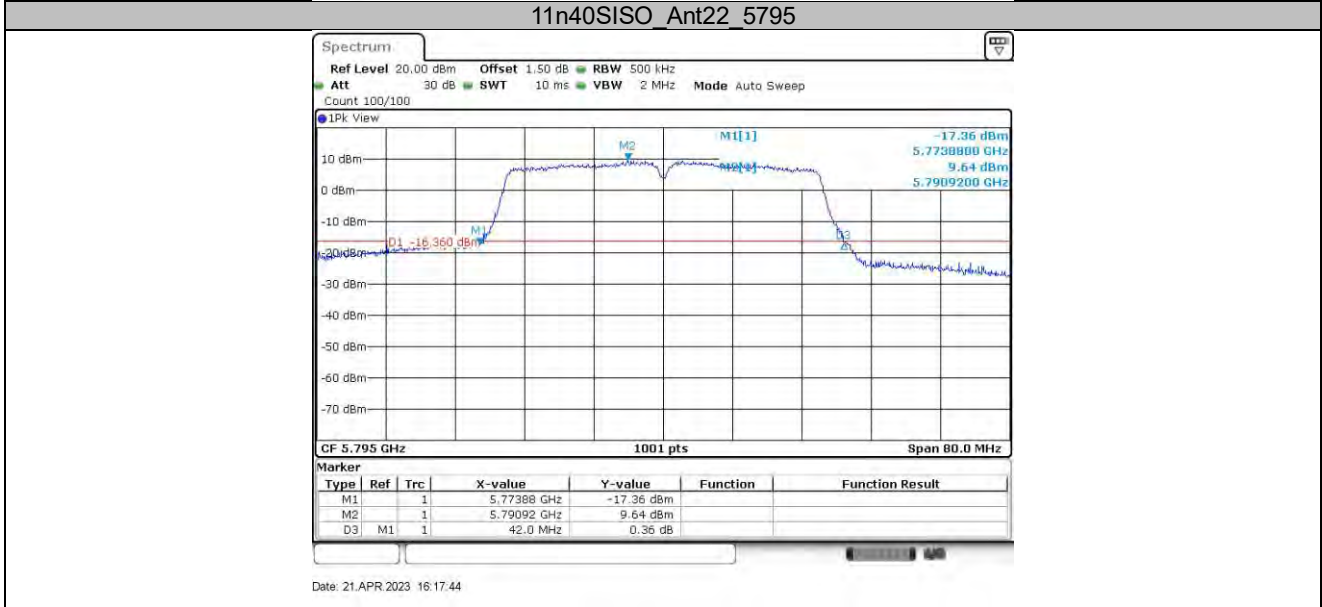
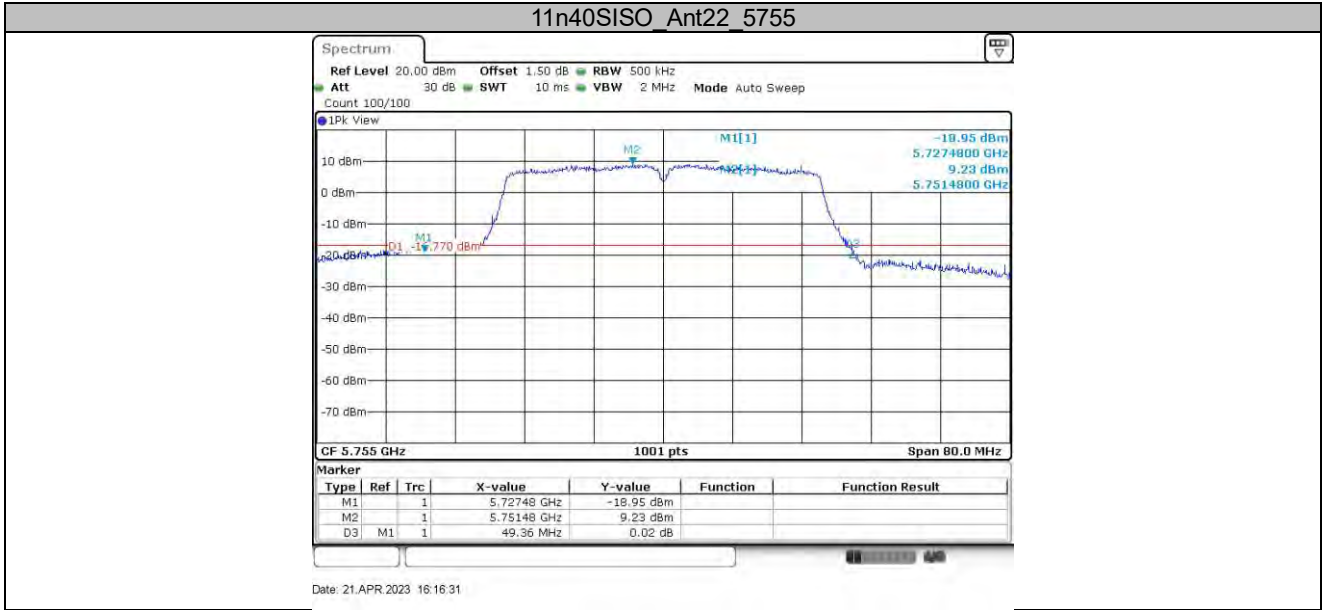
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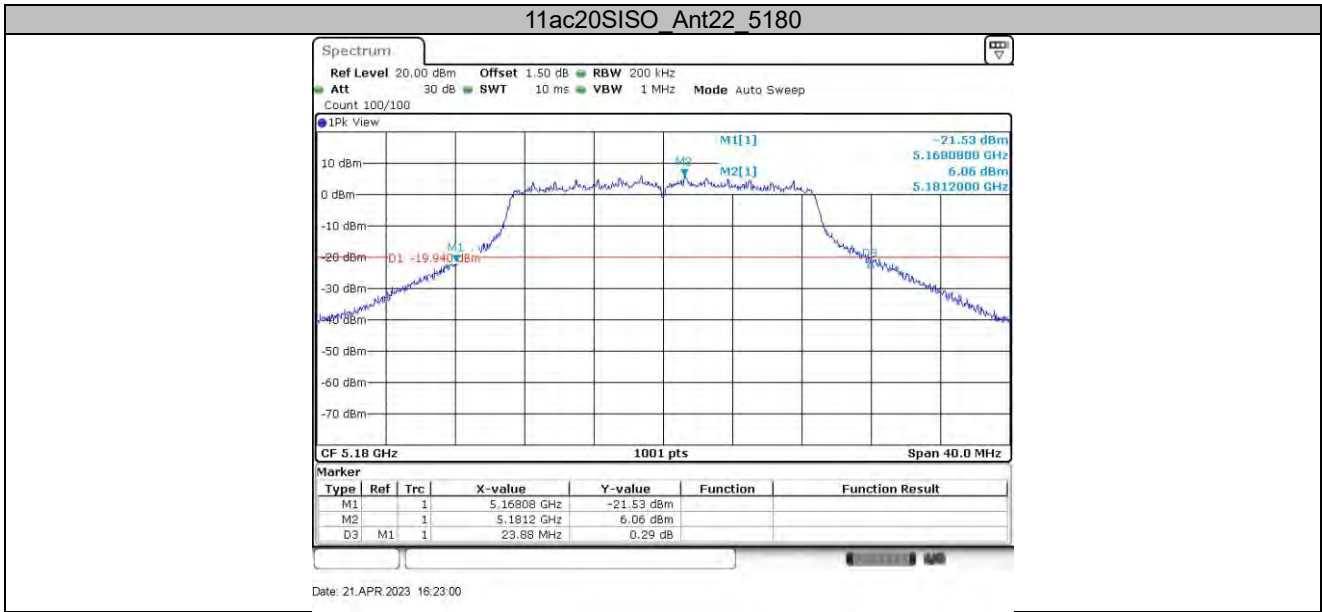
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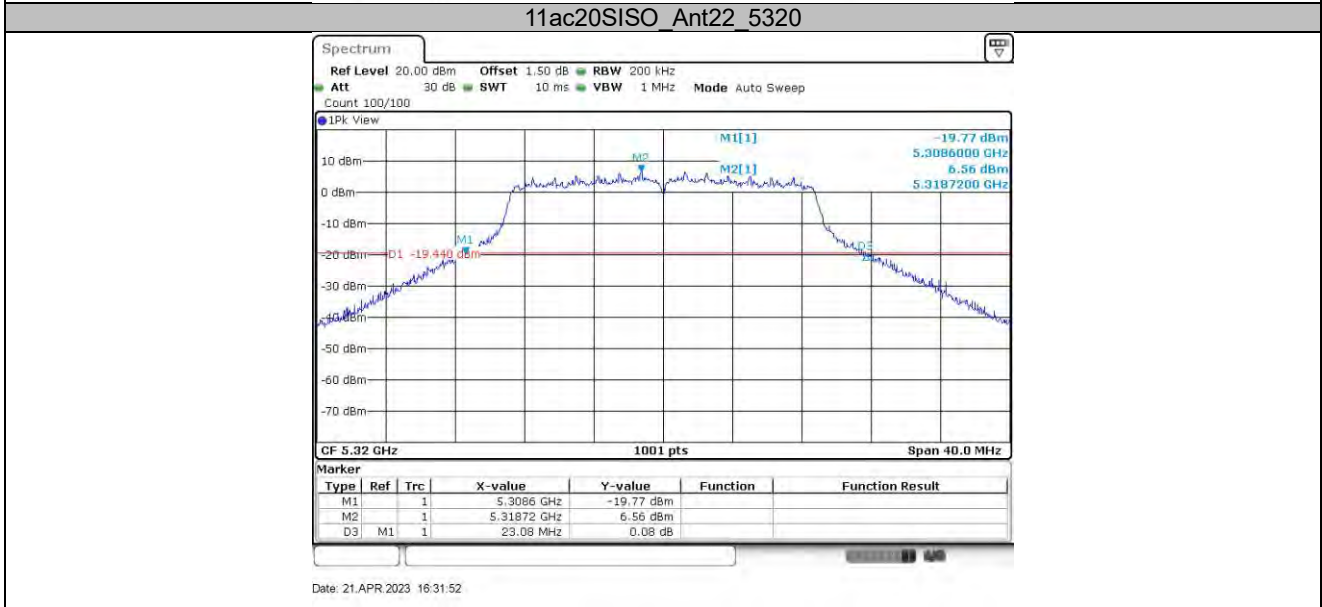
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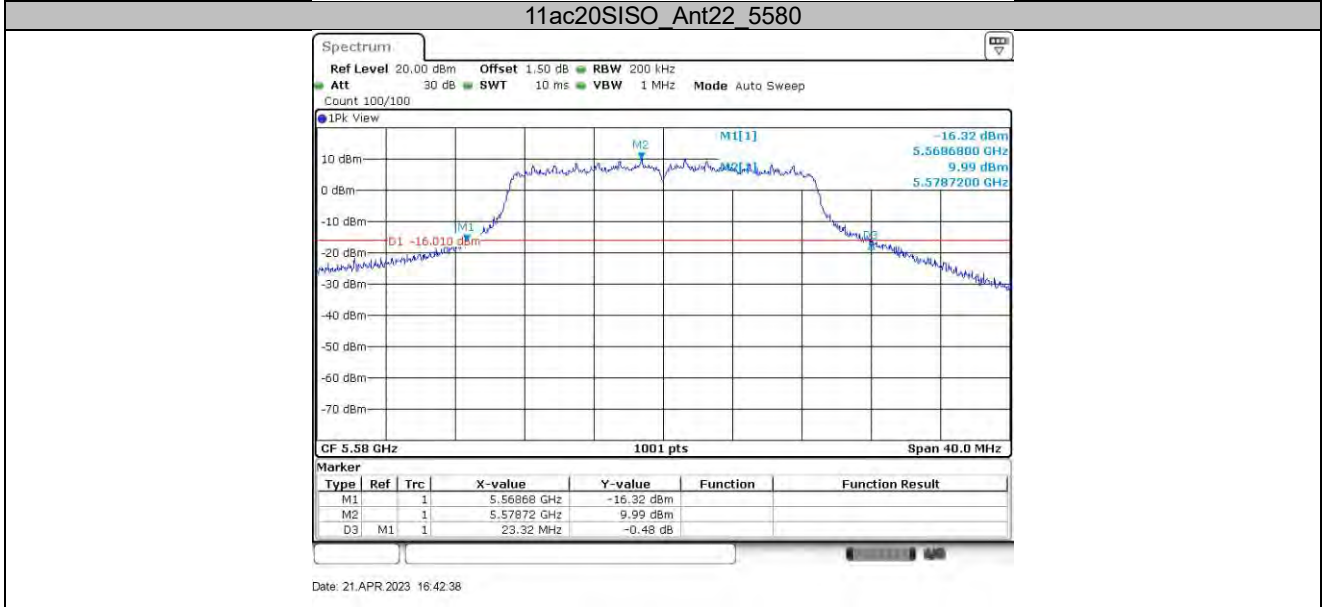
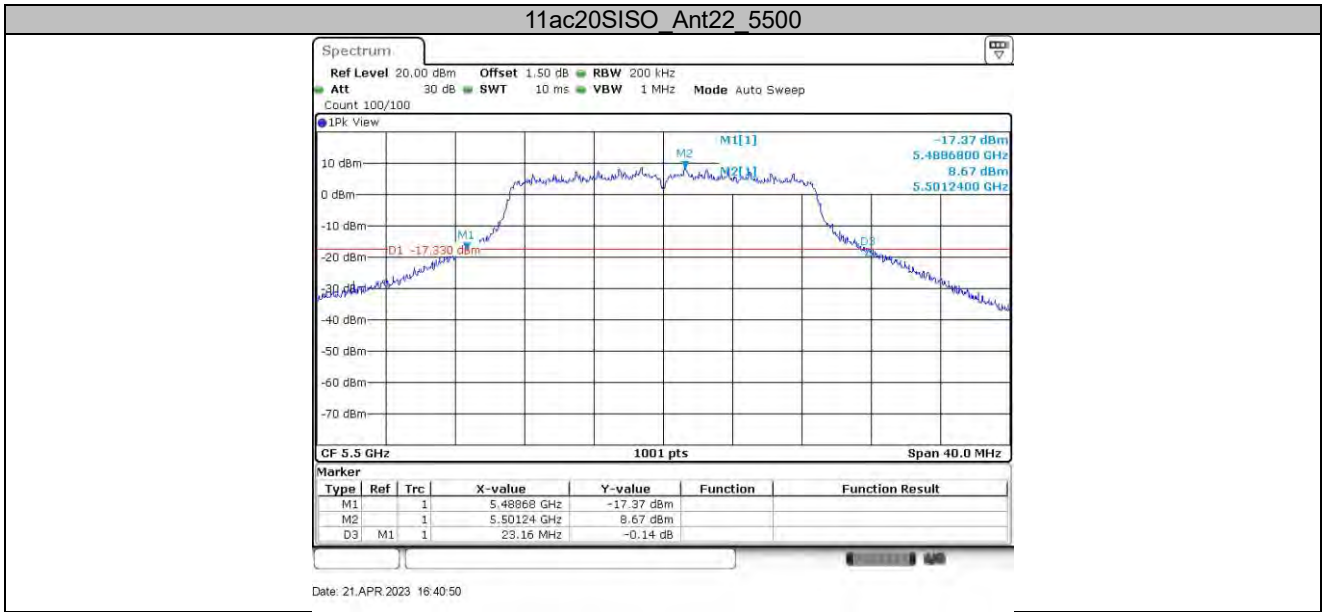
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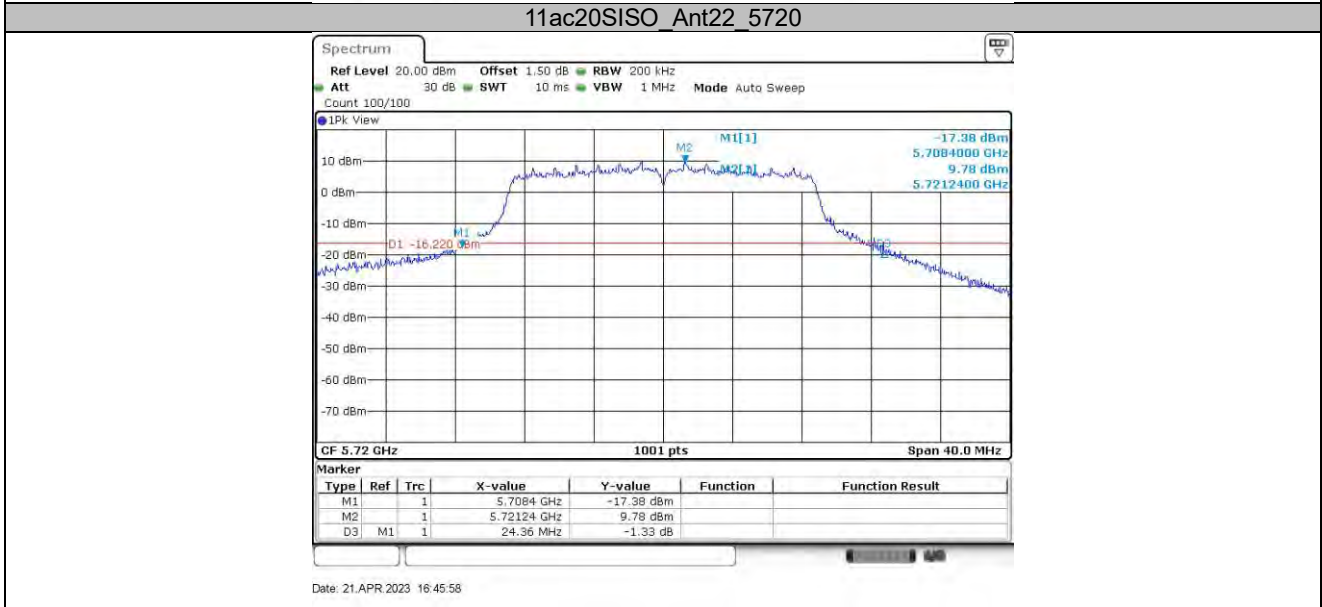
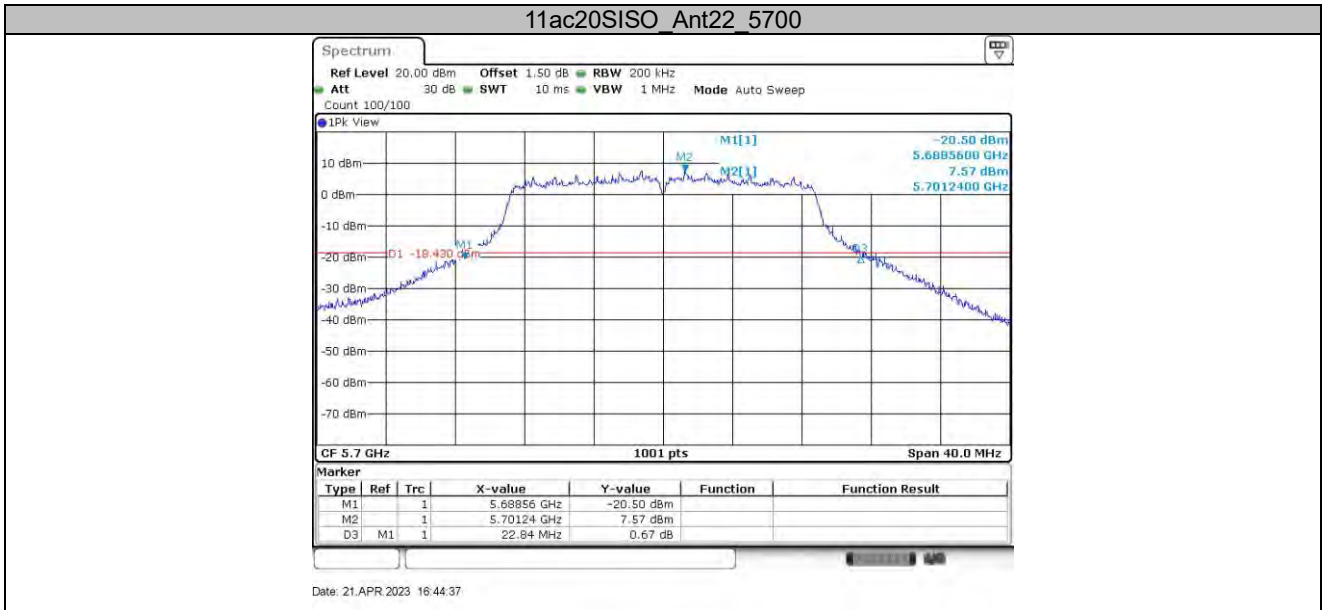
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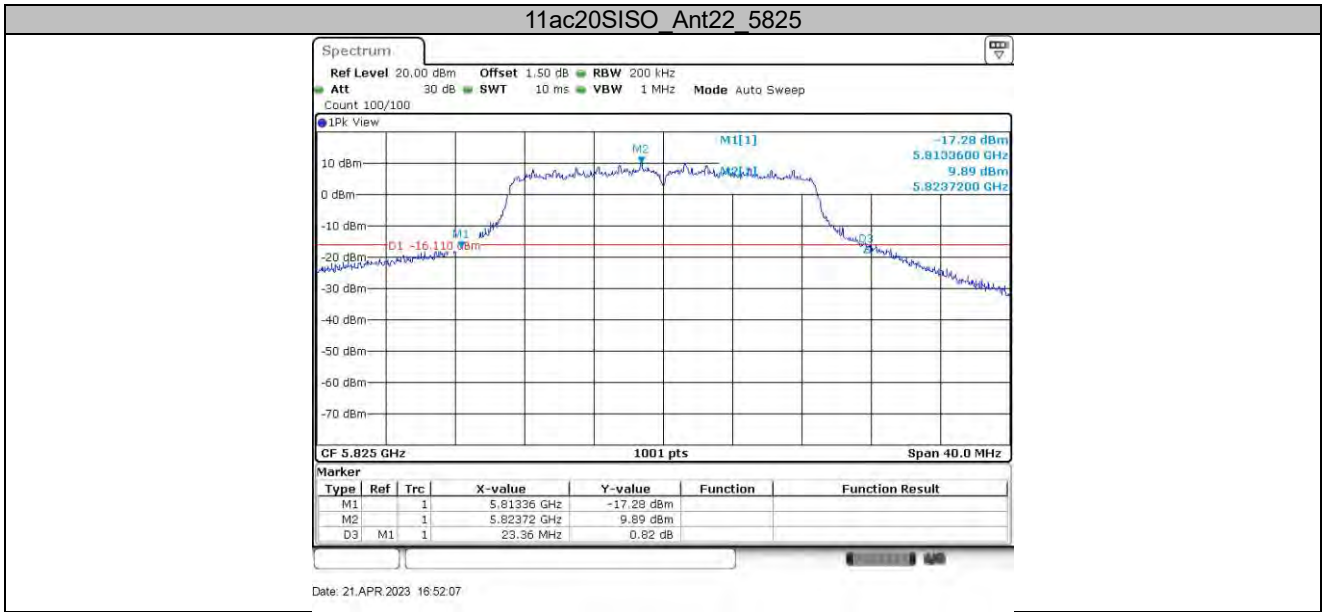
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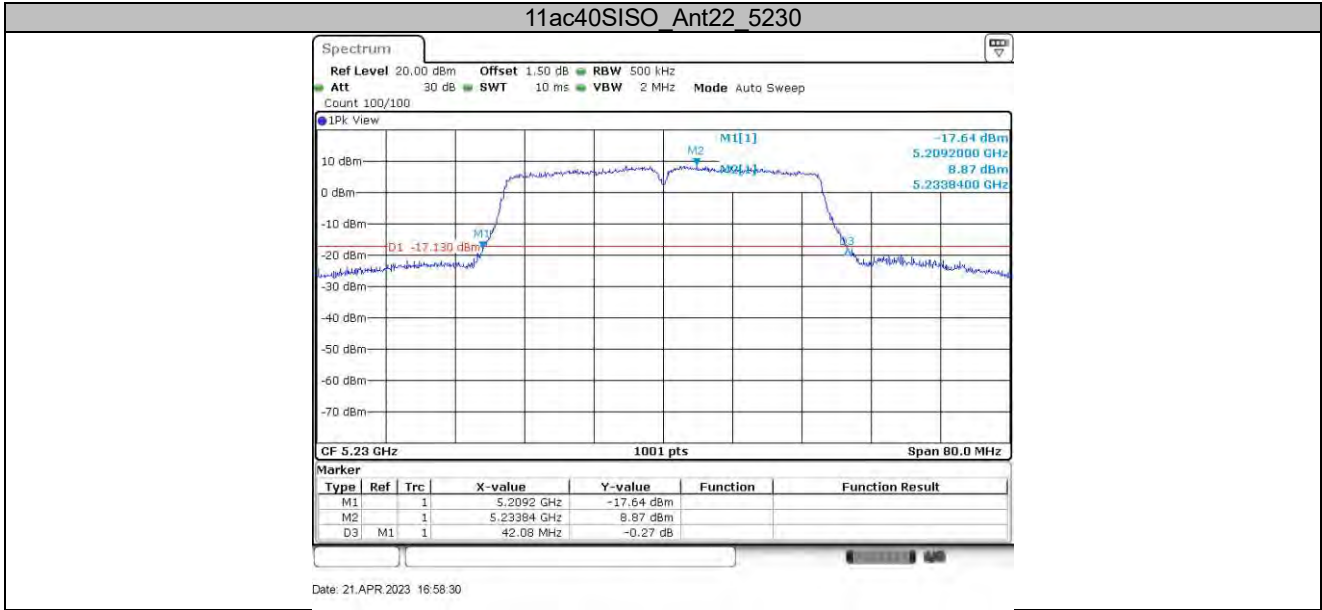
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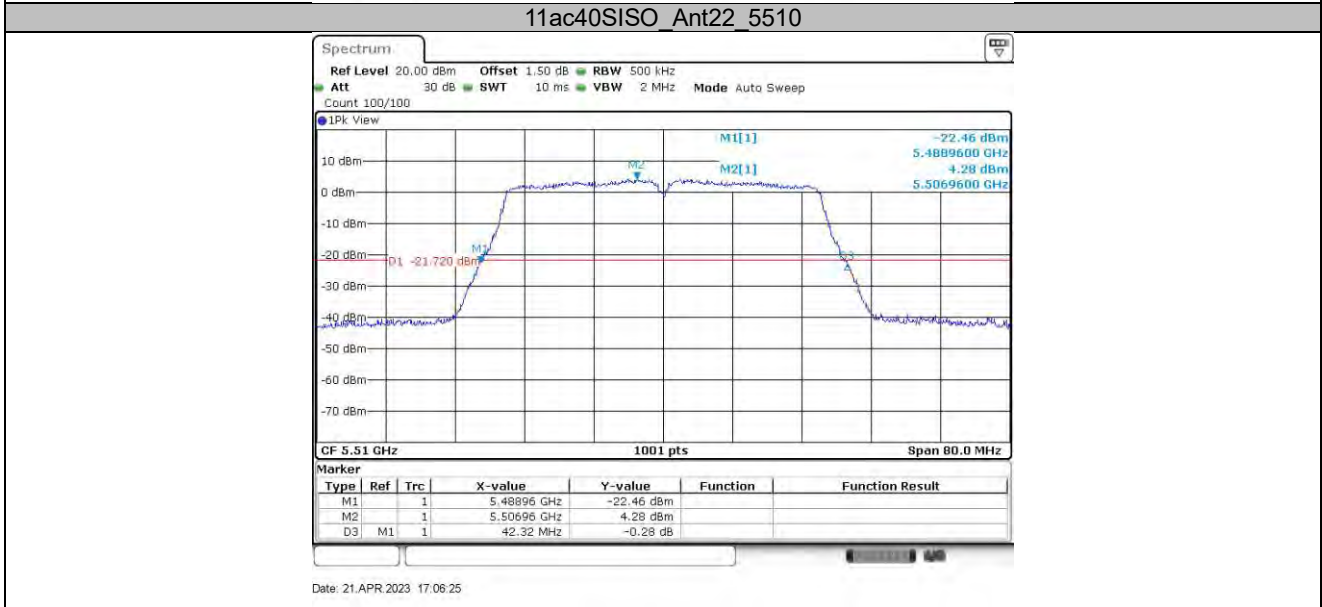
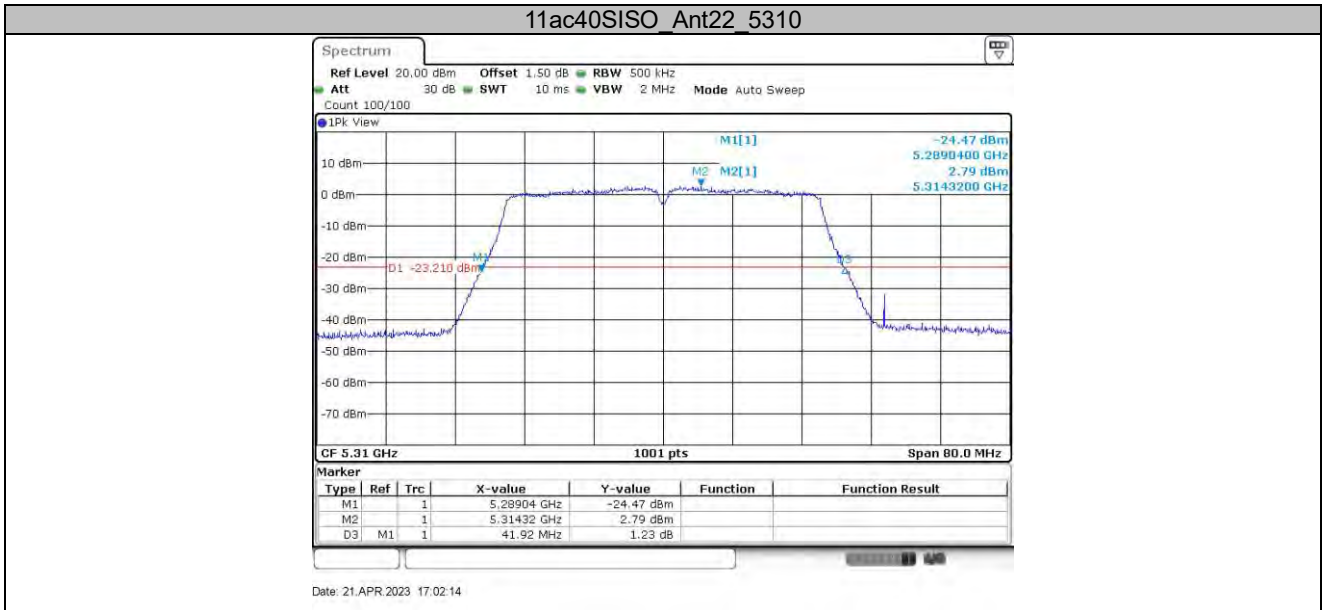
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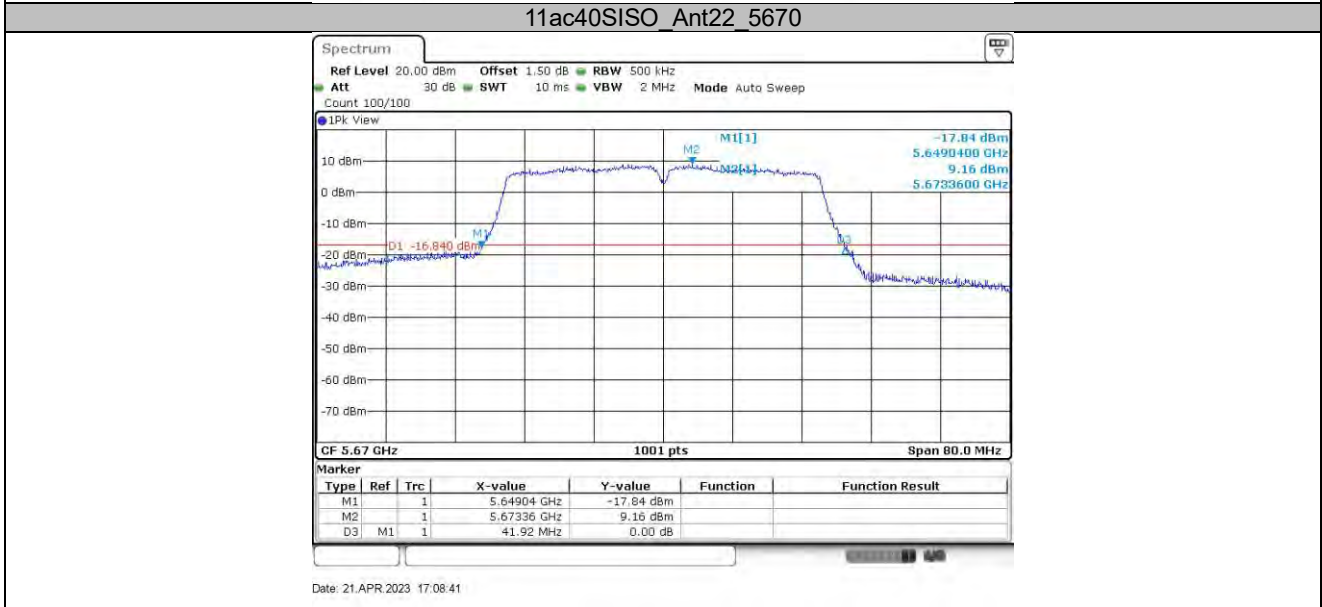
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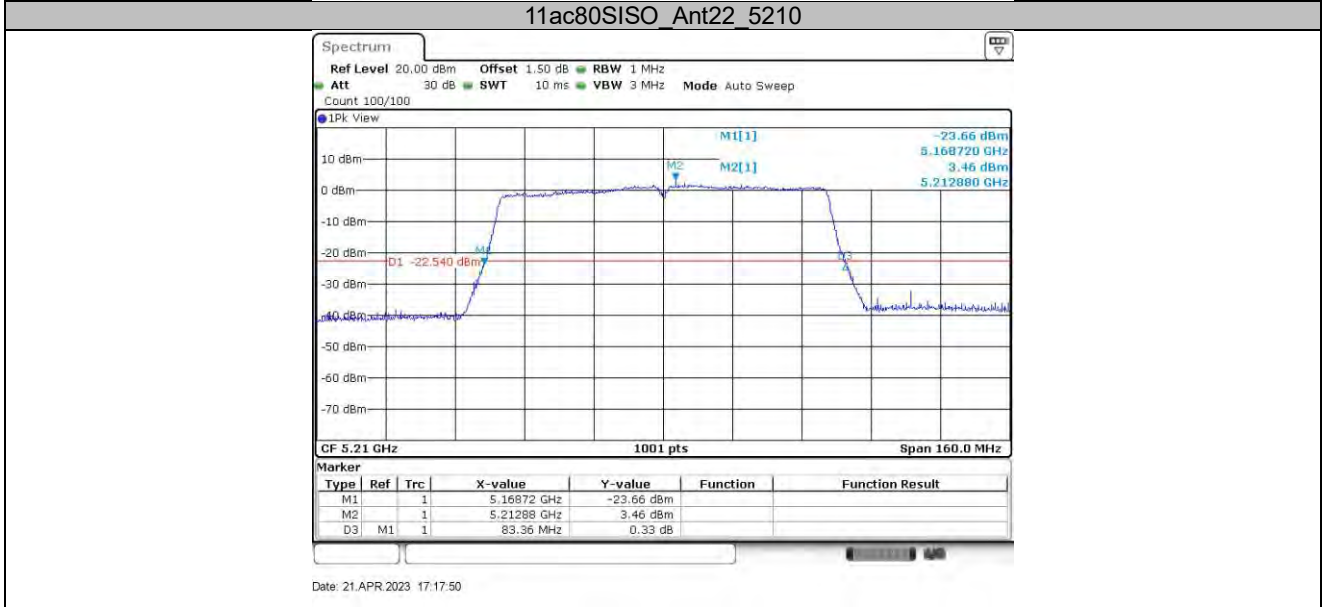
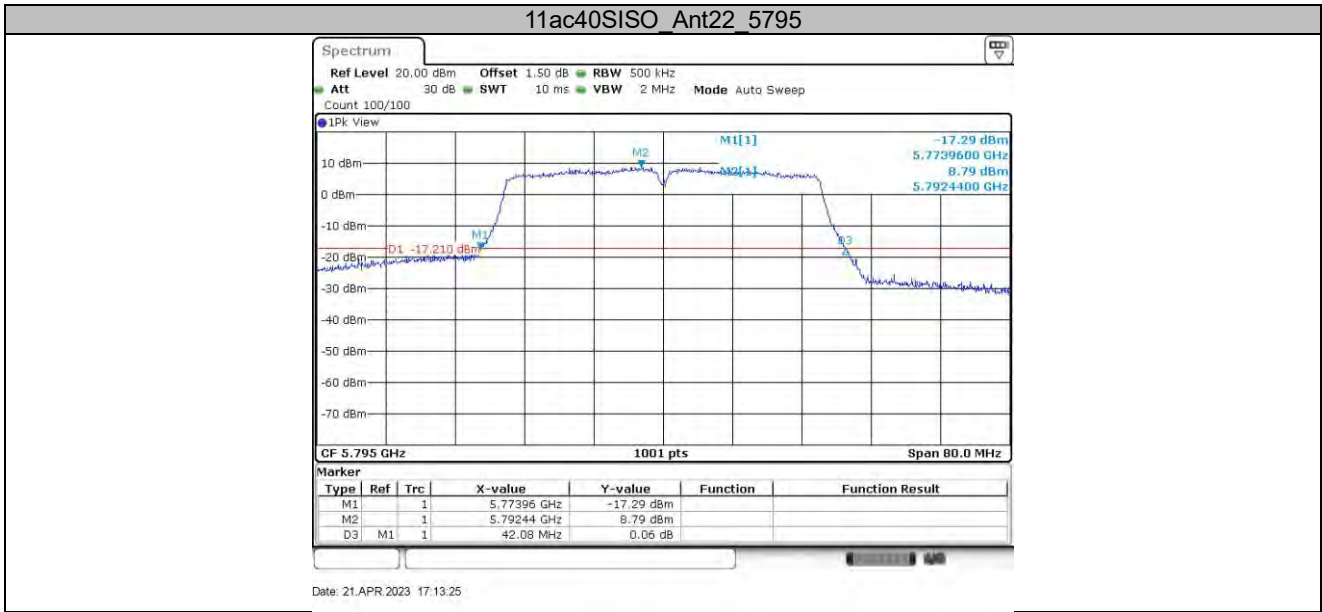
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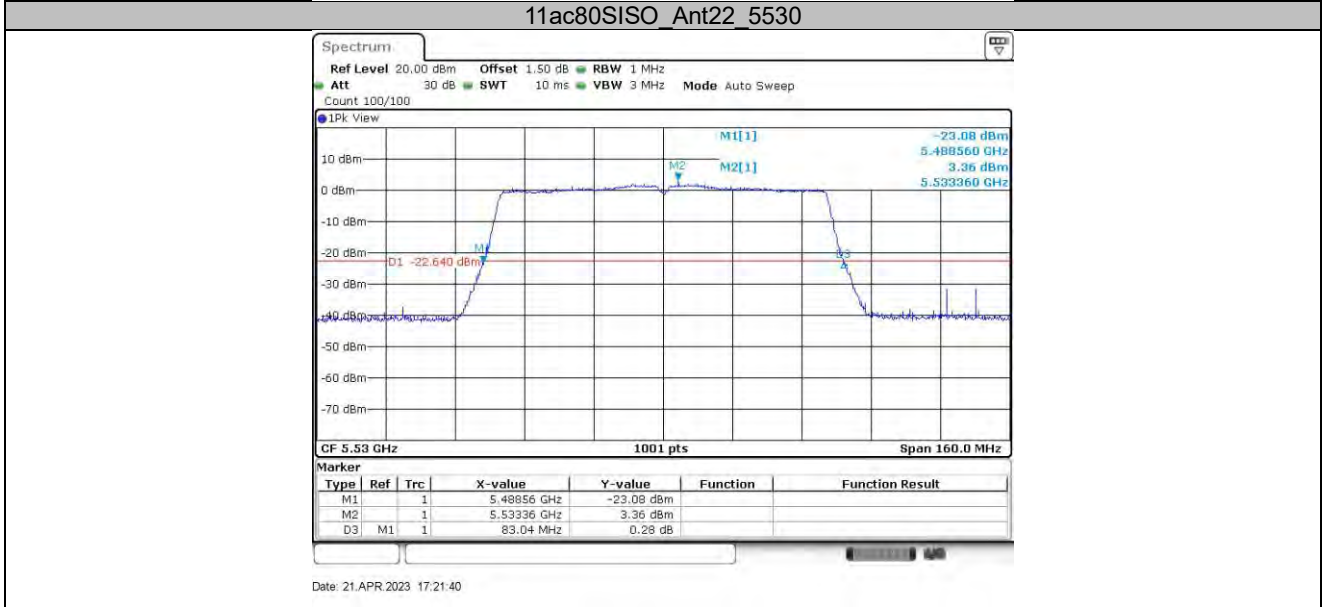
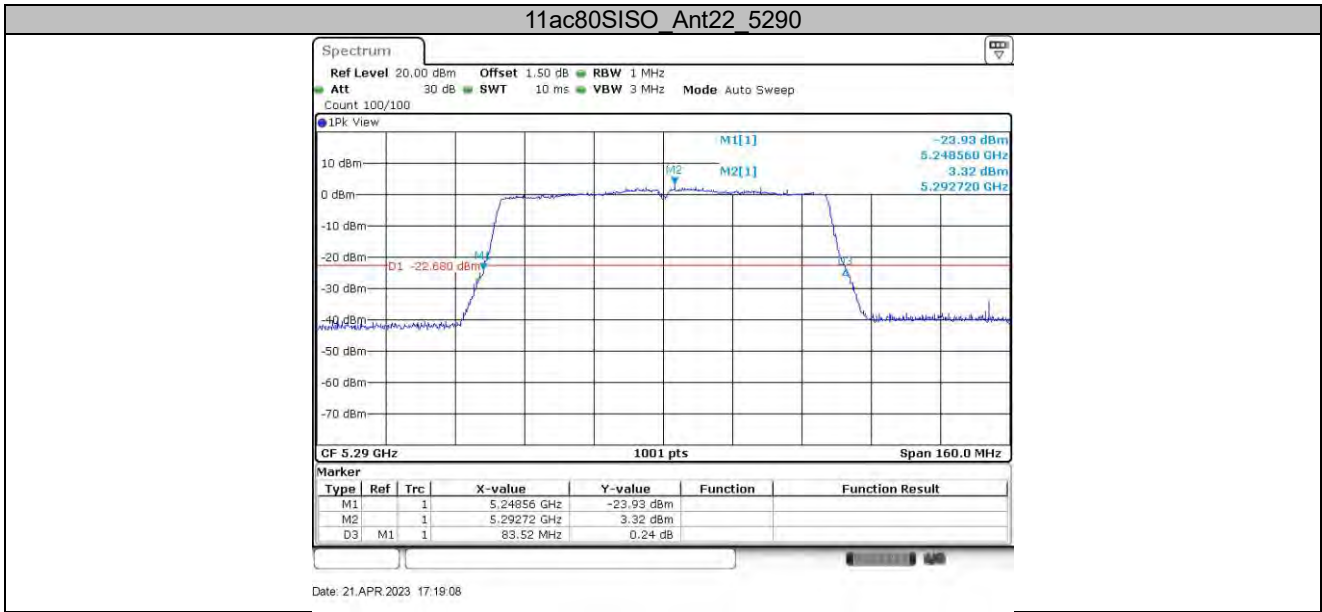
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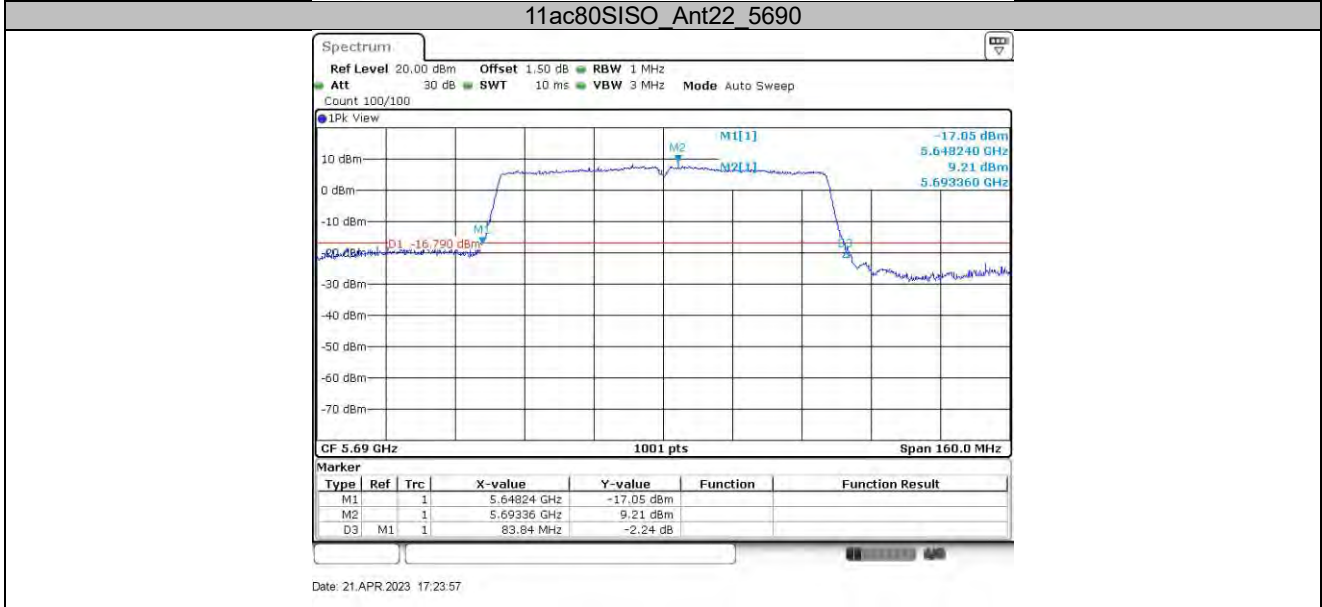
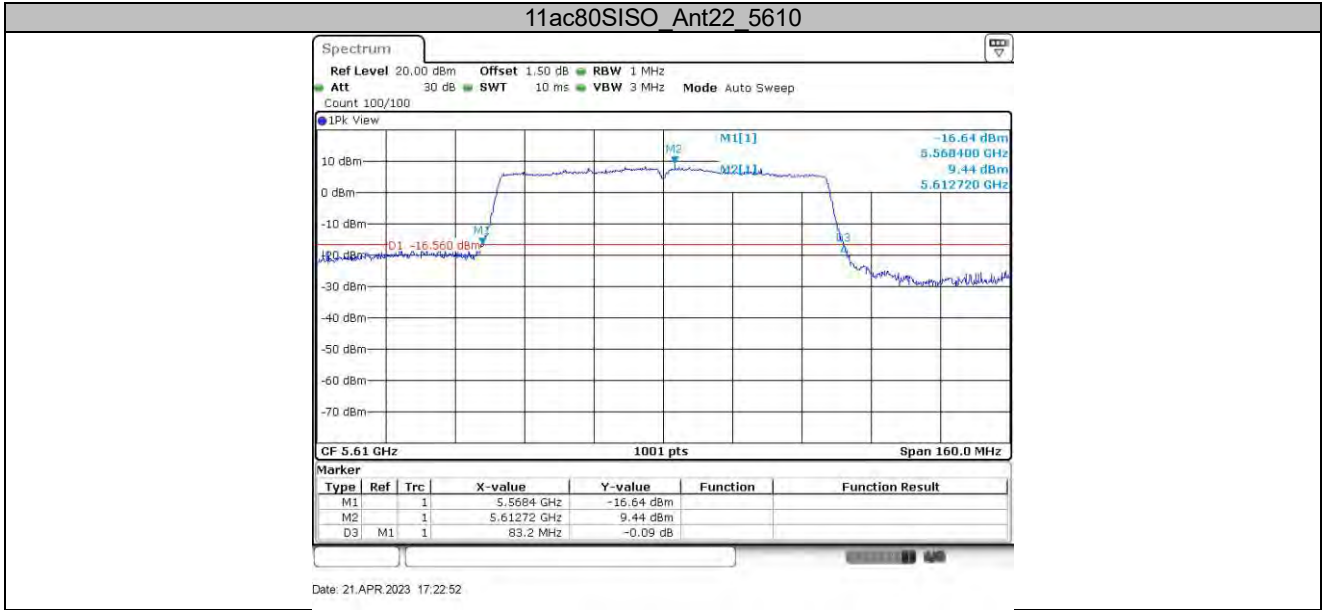
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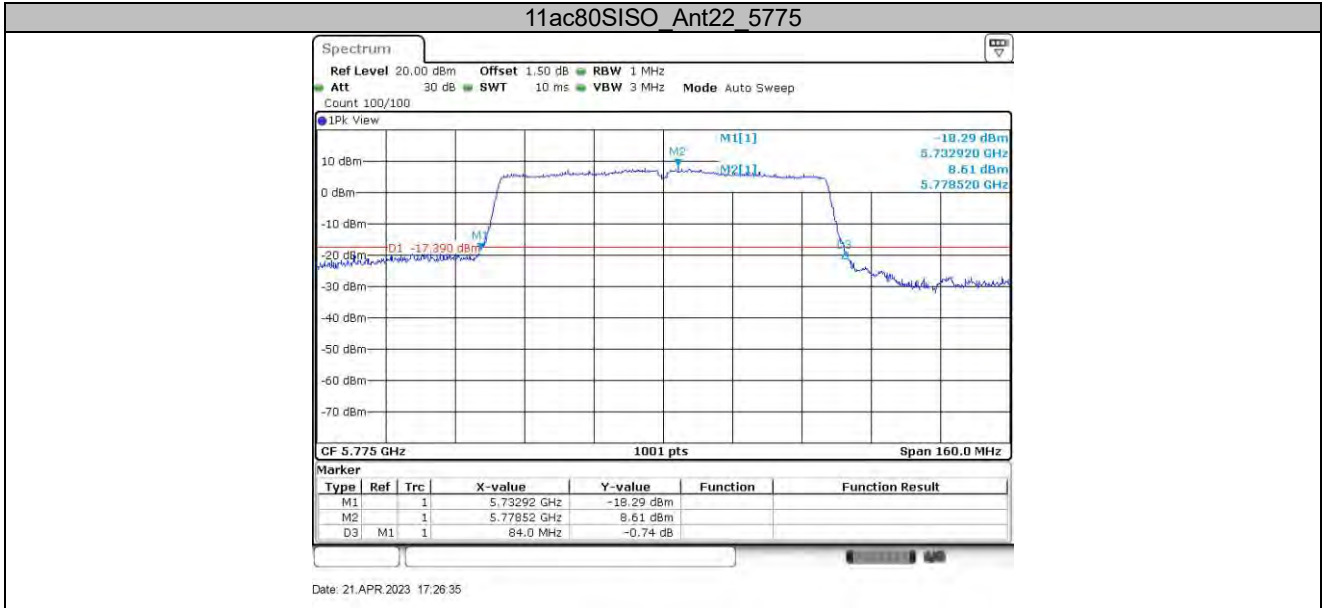
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## Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict			
11a	Ant22	5180	17.263	5171.4086	5188.6713				
		5220	19.301	5211.0490	5230.3497				
		5240	17.822	5231.2488	5249.0709				
		5260	18.581	5251.1289	5269.7103				
		5300	17.582	5291.2488	5308.8312				
		5320	17.303	5311.3686	5328.6713				
		5500	17.343	5491.3287	5508.6713				
		5580	17.582	5571.2088	5588.7912				
		5700	17.263	5691.3686	5708.6314				
		5720	17.502	5711.2887	5728.7912				
		5720 UNII-2C	13.711	5711.2887	5725				
		5720 UNII-3	3.791	5725	5728.7912				
		5745	17.542	5736.2088	5753.7512				
		5785	17.662	5776.1688	5793.8312				
		5825	17.542	5816.2088	5833.7512				
11n20SISO	Ant22	5180	18.382	5170.8492	5189.2308	For Report Purpose			
		5220	19.78	5210.5694	5230.3497				
		5240	20.46	5230.4096	5250.8691				
		5260	19.381	5250.6094	5269.9900				
		5300	18.541	5290.7692	5309.3107				
		5320	18.382	5310.8092	5329.1908				
		5500	18.382	5490.8092	5509.1908				
		5580	18.501	5570.7293	5589.2308				
		5700	18.382	5690.8092	5709.1908				
		5720	18.501	5710.7293	5729.2308				
		5720 UNII-2C	14.271	5710.7293	5725				
		5720 UNII-3	4.231	5725	5729.2308				
		5745	18.501	5735.7293	5754.2308				
		5785	18.581	5775.6893	5794.2707				
		5825	18.541	5815.6893	5834.2308				
11n40SISO	Ant22	5190	36.683	5171.6983	5208.3816				
		5230	36.763	5211.6983	5248.4615				
		5270	36.683	5251.6983	5288.3816				
		5310	36.683	5291.6983	5328.3816				
		5510	36.683	5491.6983	5528.3816				
		5550	36.683	5531.6184	5568.3017				
		5670	36.683	5651.6184	5688.3017				
		5710	36.603	5691.6983	5728.3017				
		5710 UNII-2C	33.302	5691.6983	5725				
		5710 UNII-3	3.302	5725	5728.3017				
		5755	36.763	5736.5385	5773.3017				
		5795	36.843	5776.5385	5813.3816				
		11ac20SISO	Ant22	5180	18.422		5170.8092	5189.2308	
				5220	19.061		5210.6893	5229.7502	
				5240	19.101		5230.6494	5249.7502	
5260	18.741			5250.7293	5269.4705				
5300	18.501			5290.7692	5309.2707				
5320	18.382			5310.8092	5329.1908				
5500	18.382			5490.8092	5509.1908				
5580	18.422			5570.7692	5589.1908				



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		5700	18.382	5690.8092	5709.1908
		5720	18.422	5710.7692	5729.1908
		5720 UNII-2C	14.231	5710.7692	5725
		5720 UNII-3	4.191	5725	5729.1908
		5745	18.462	5735.7293	5754.1908
		5785	18.501	5775.7293	5794.2308
		5825	18.462	5815.7293	5834.1908
11ac40SISO	Ant22	5190	36.603	5171.7782	5208.3816
		5230	36.683	5211.6983	5248.3816
		5270	36.683	5251.6983	5288.3816
		5310	36.683	5291.6983	5328.3816
		5510	36.683	5491.6983	5528.3816
		5550	36.763	5531.6184	5568.3816
		5670	36.763	5651.6184	5688.3816
		5710	36.683	5691.6983	5728.3816
		5710 UNII-2C	33.302	5691.6983	5725
		5710 UNII-3	3.382	5725	5728.3816
		5755	36.683	5736.6184	5773.3017
		5795	36.683	5776.6184	5813.3017
		11ac80SISO	Ant22	5210	75.924
5290	75.924			5252.1179	5328.0420
5530	76.084			5491.9580	5568.0420
5610	76.084			5571.7982	5647.8821
5690	76.244			5651.7982	5728.0420
5690 UNII-2C	73.202			5651.7982	5725
5690 UNII-3	3.042			5725	5728.0420
5775	76.404			5736.6384	5813.0420



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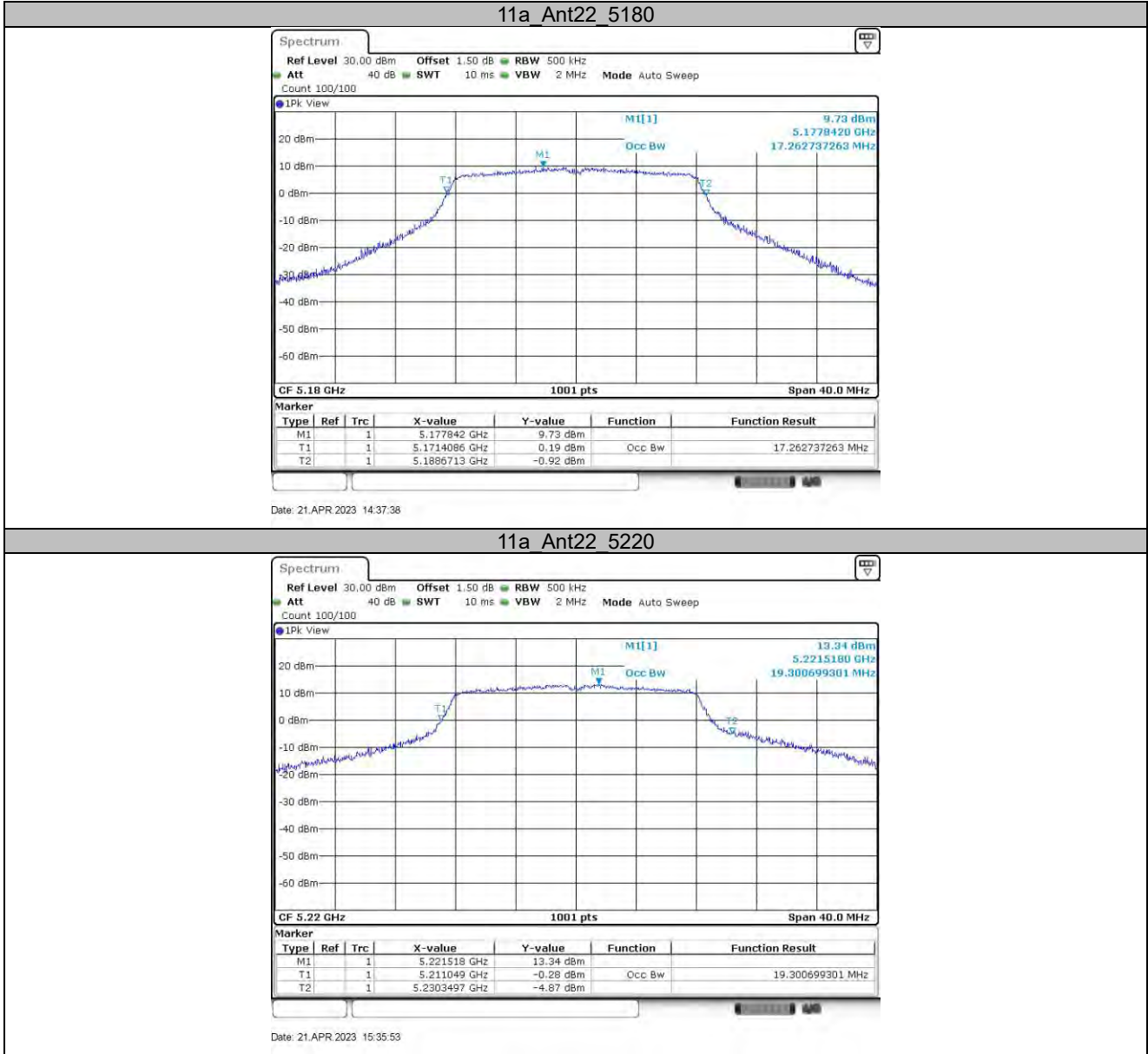
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**Test Graphs**



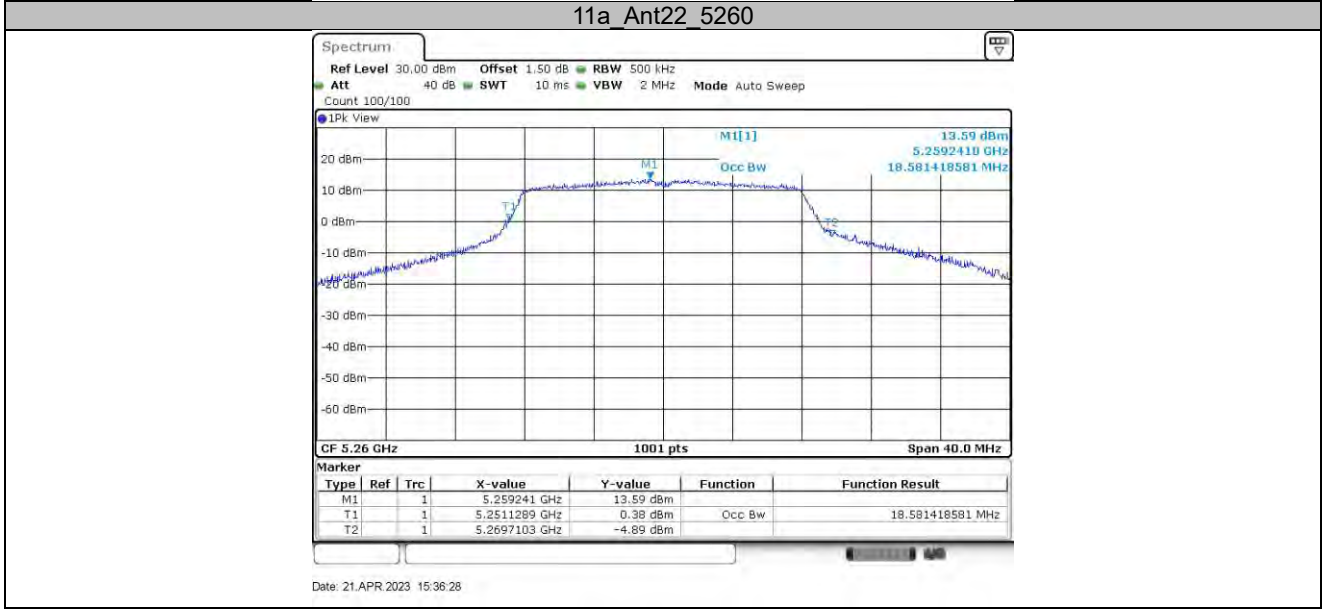
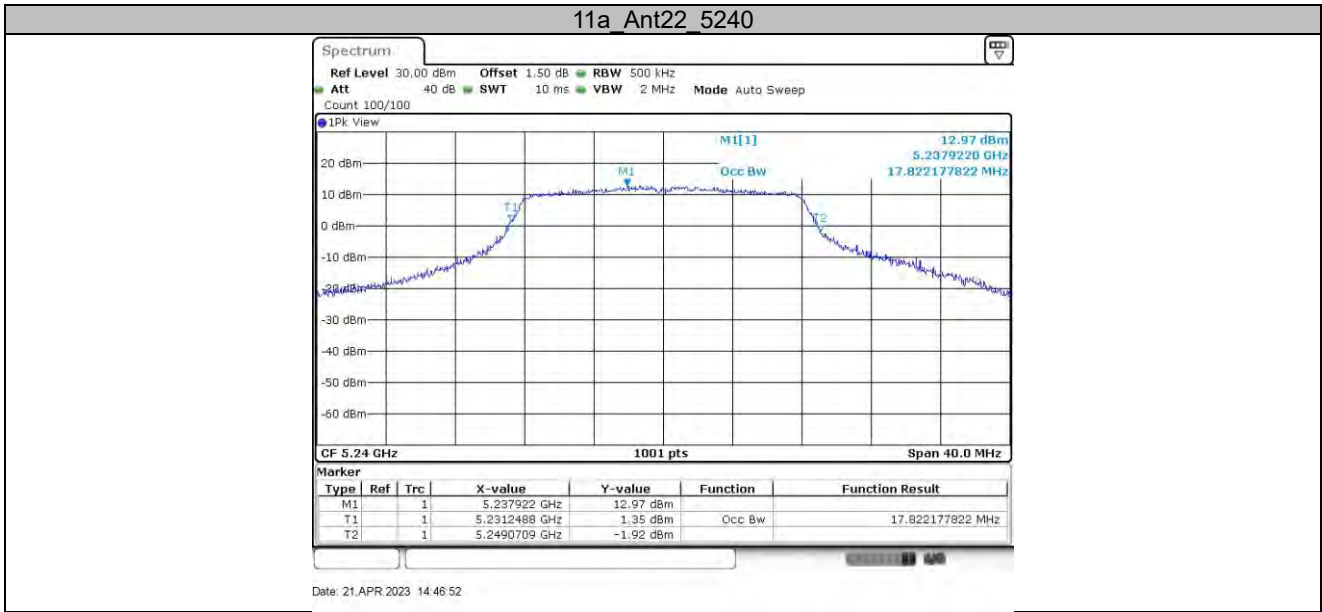
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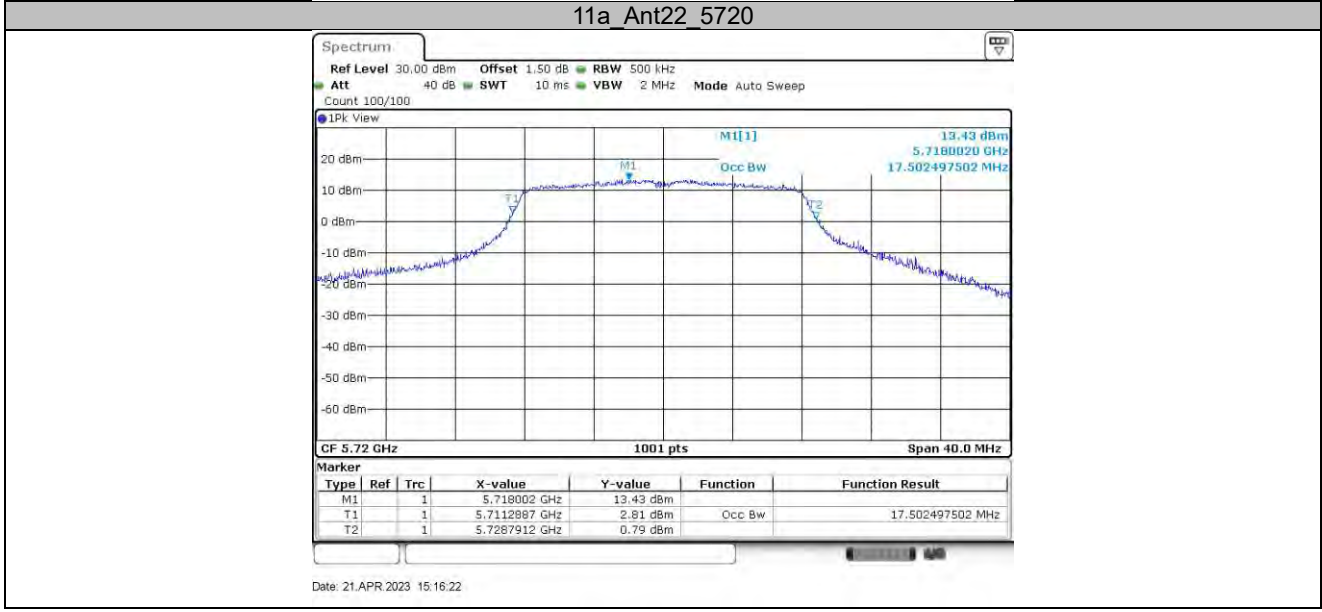
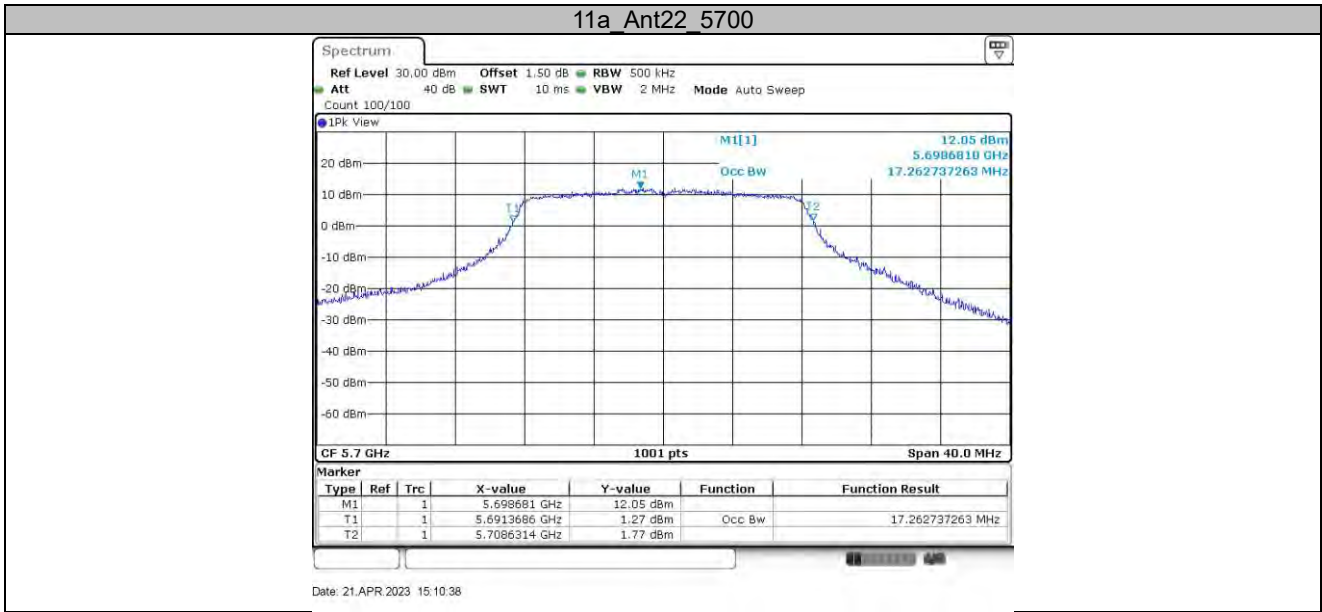
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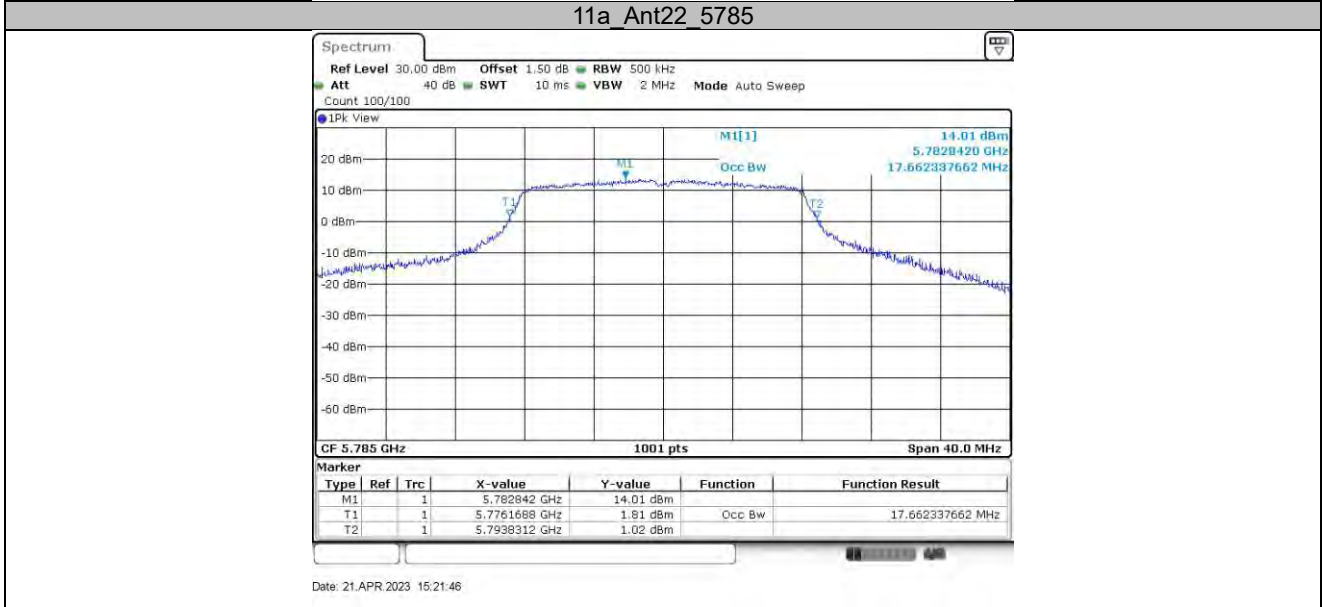
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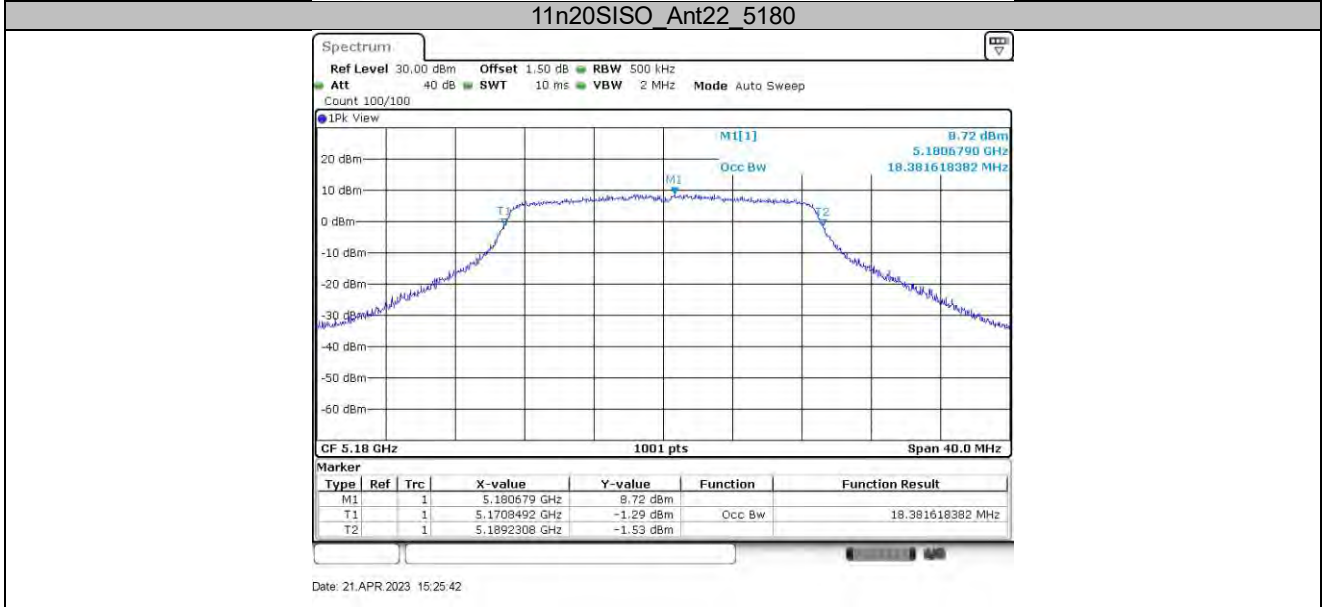
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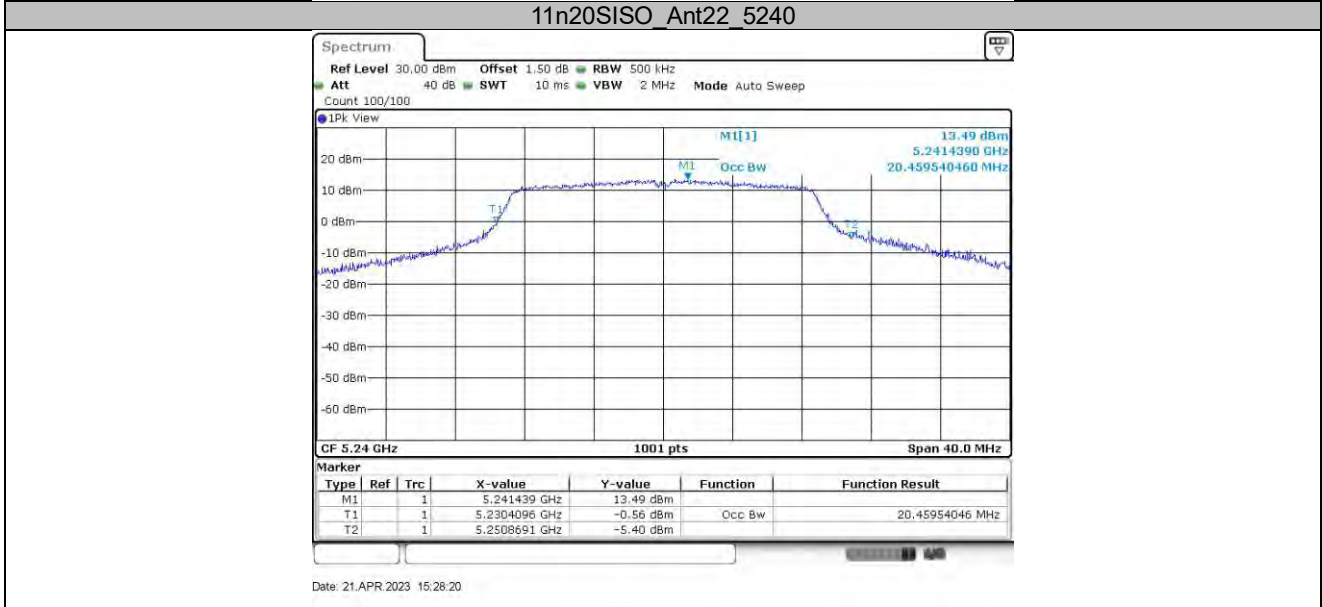
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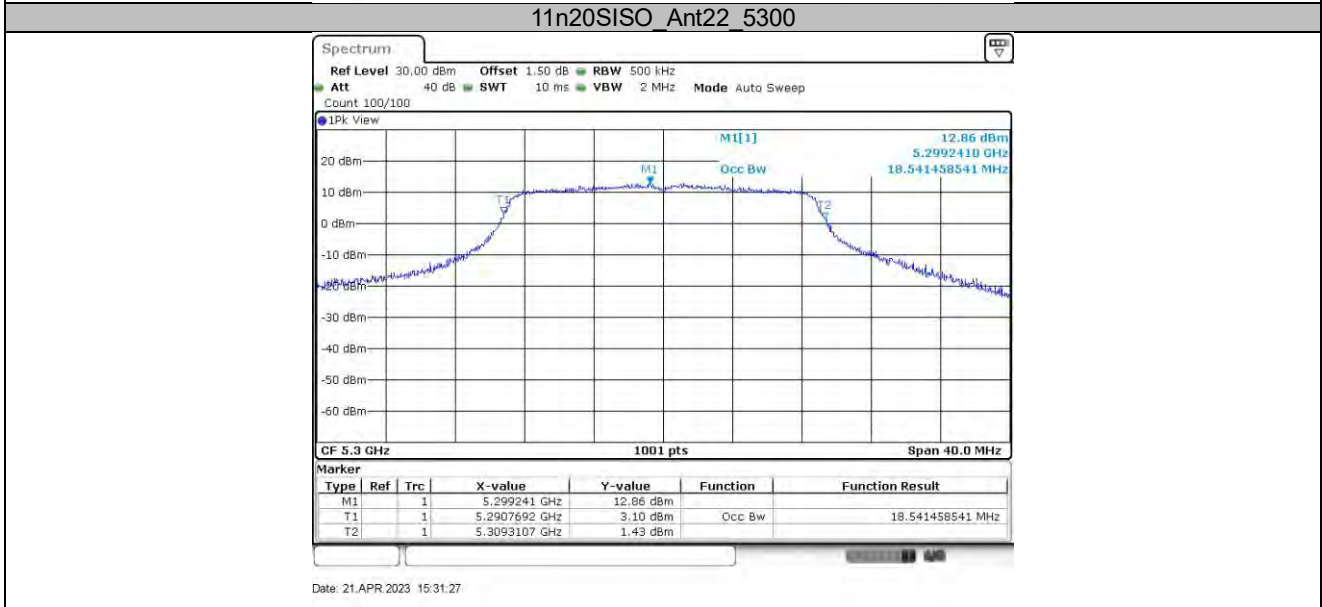
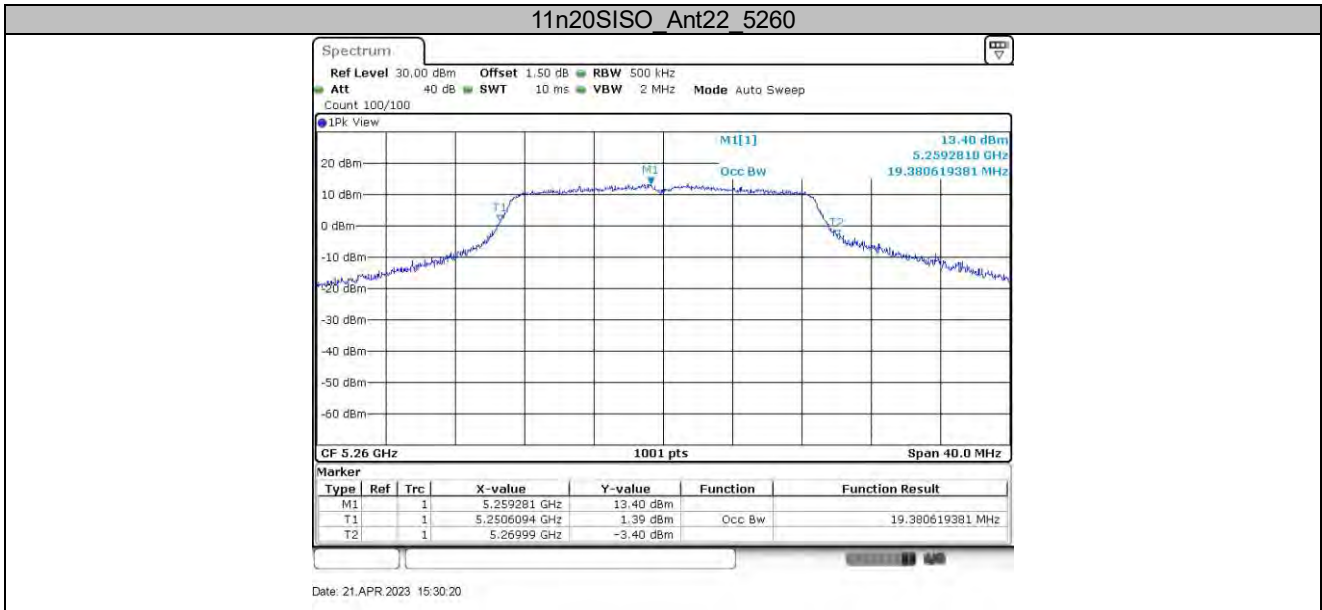
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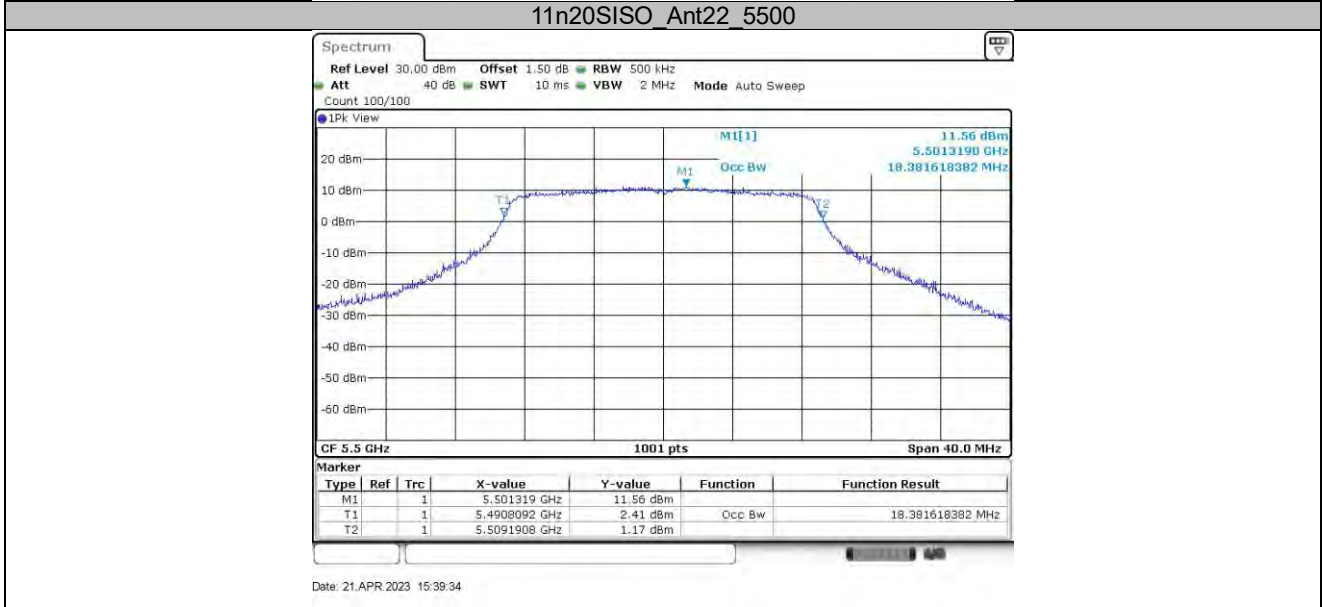
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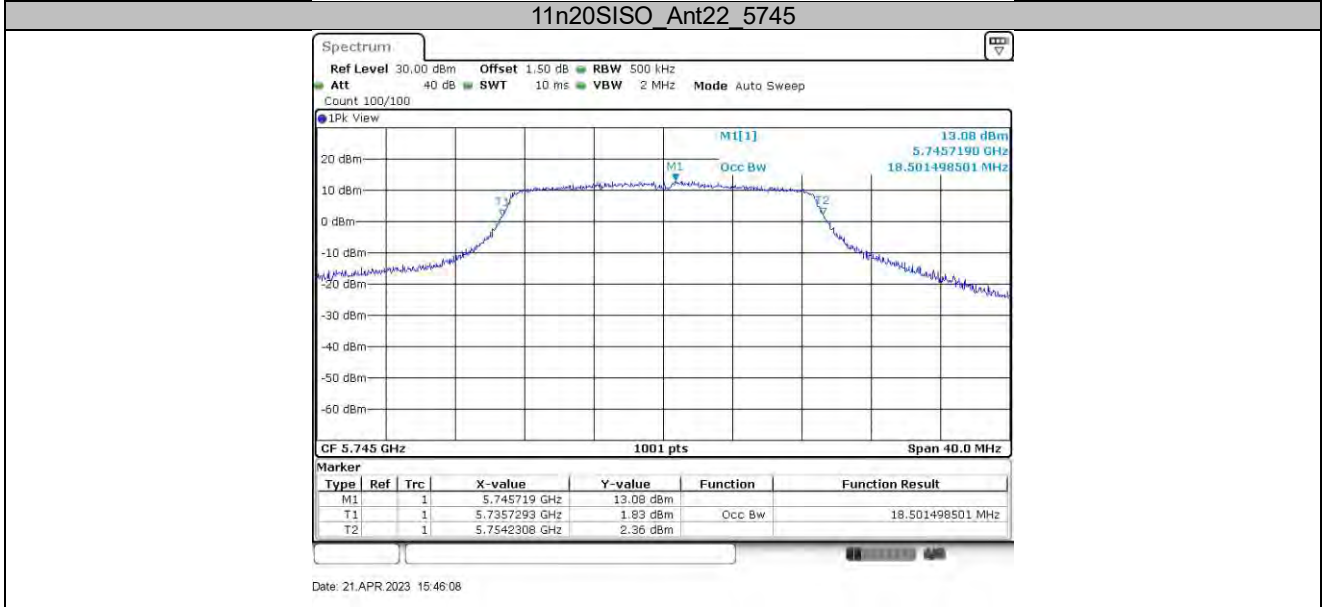
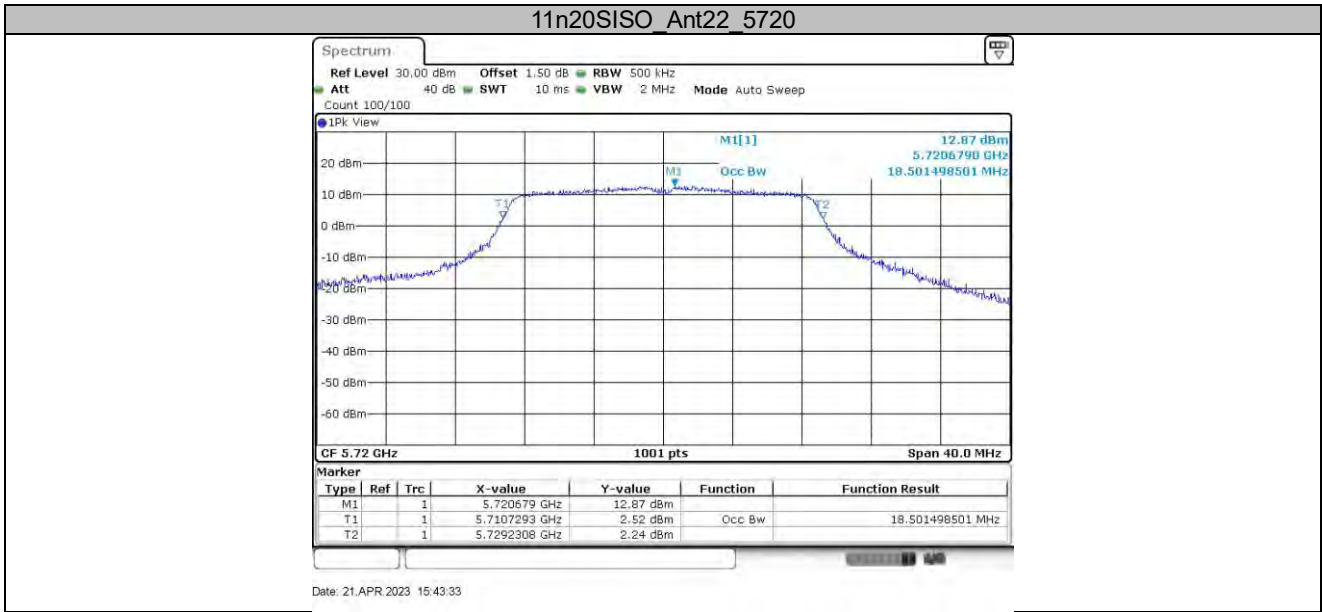
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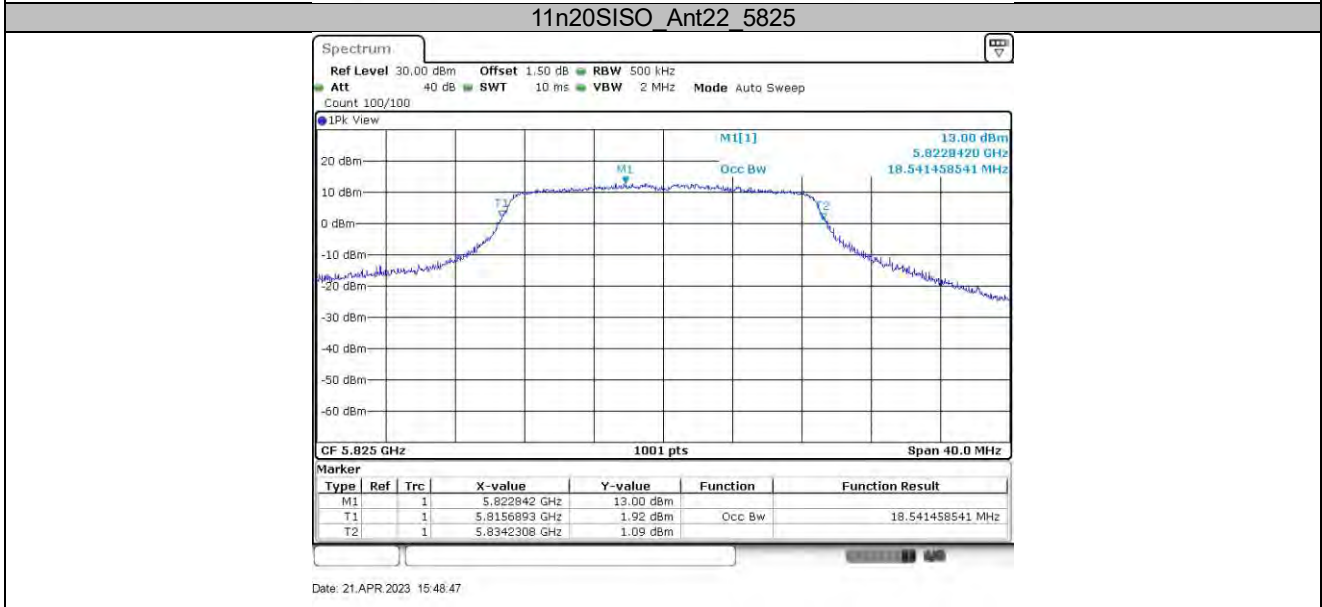
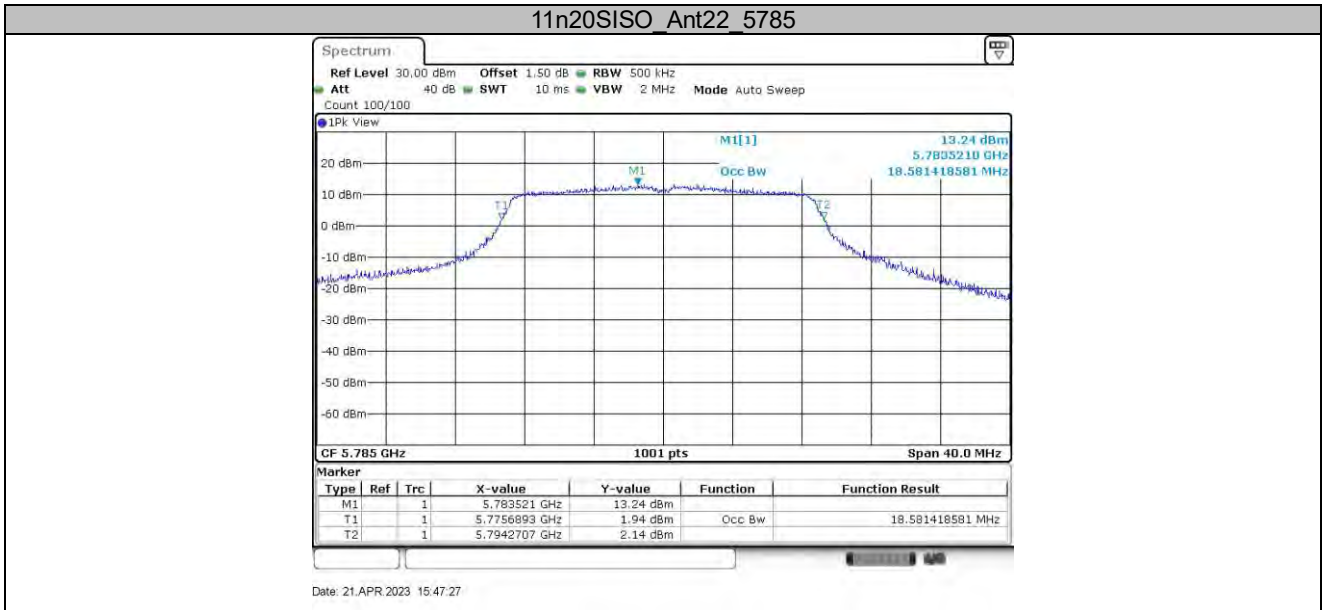
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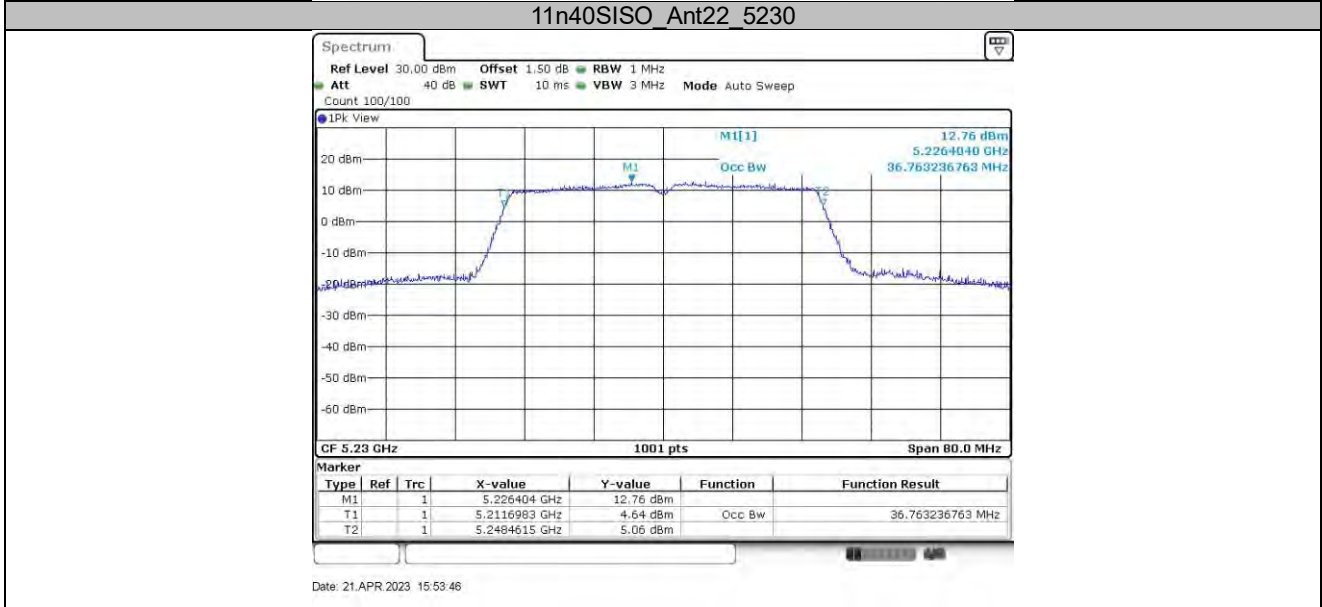
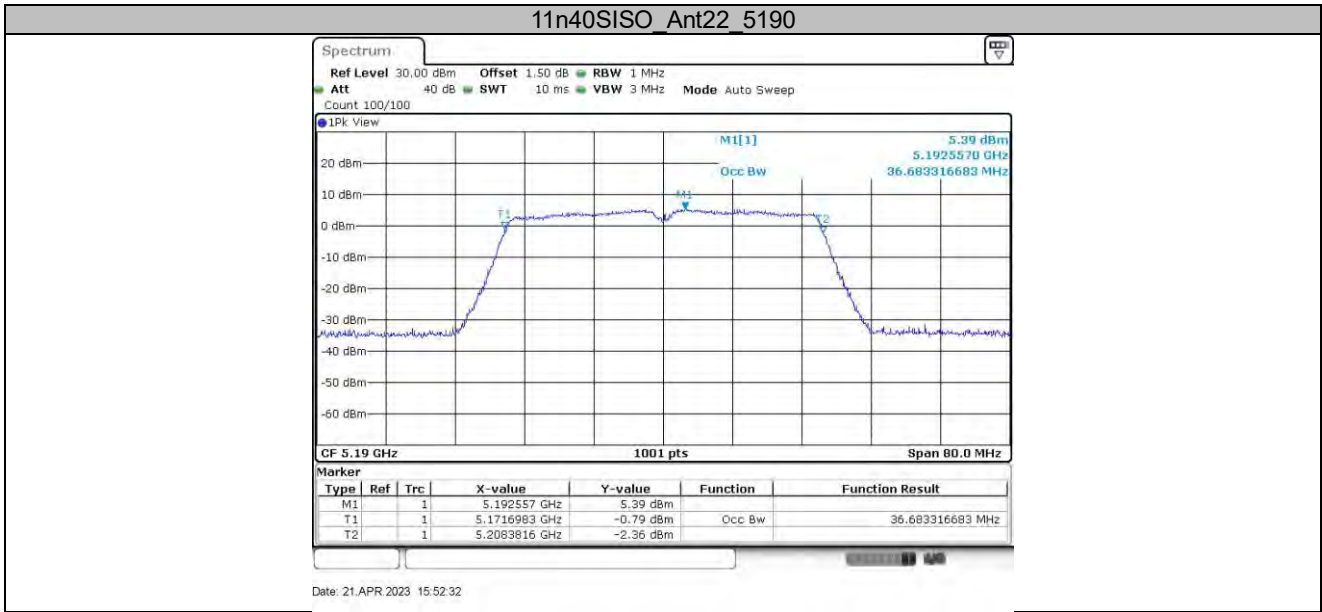
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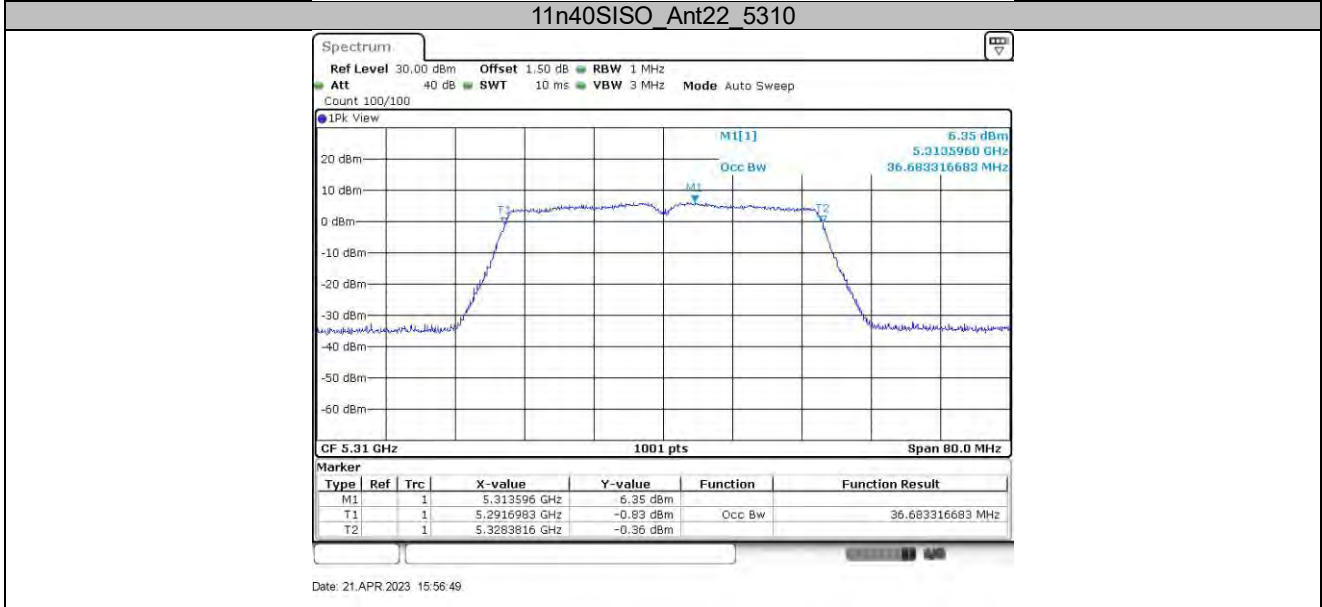
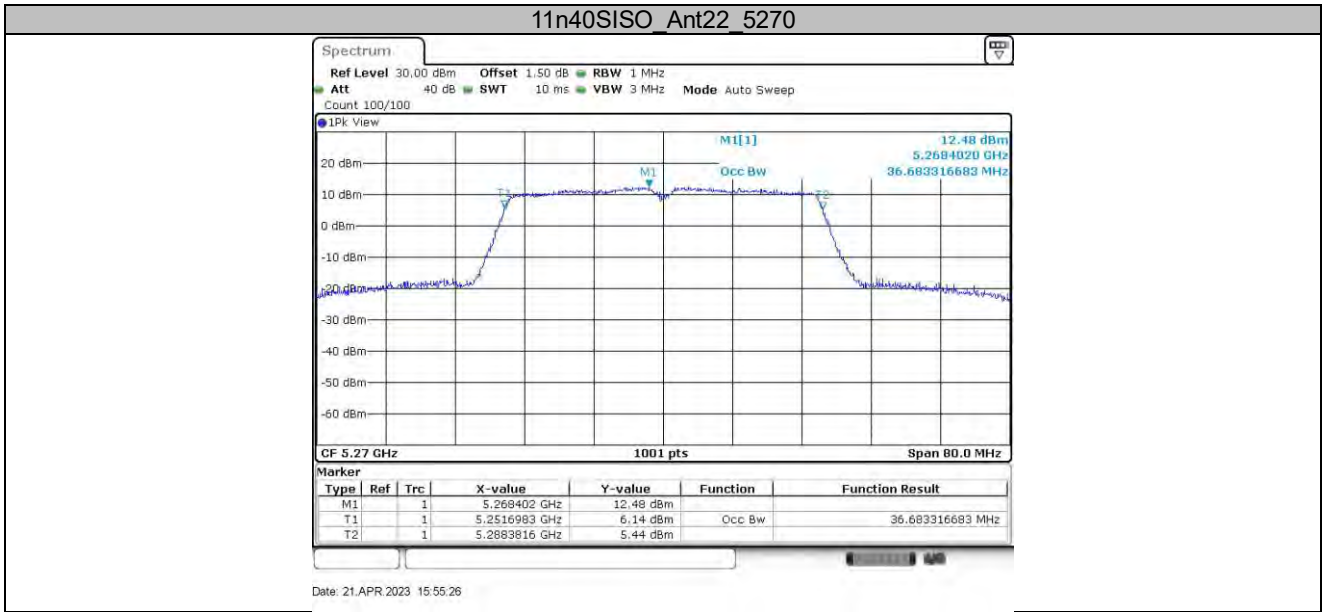
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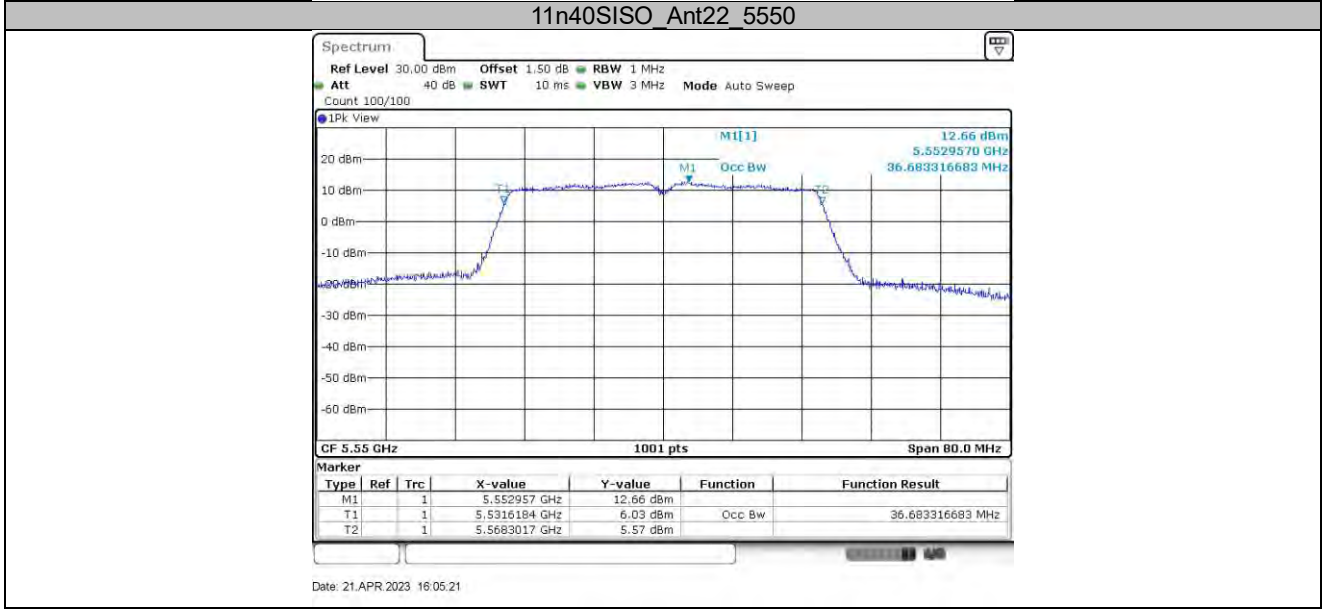
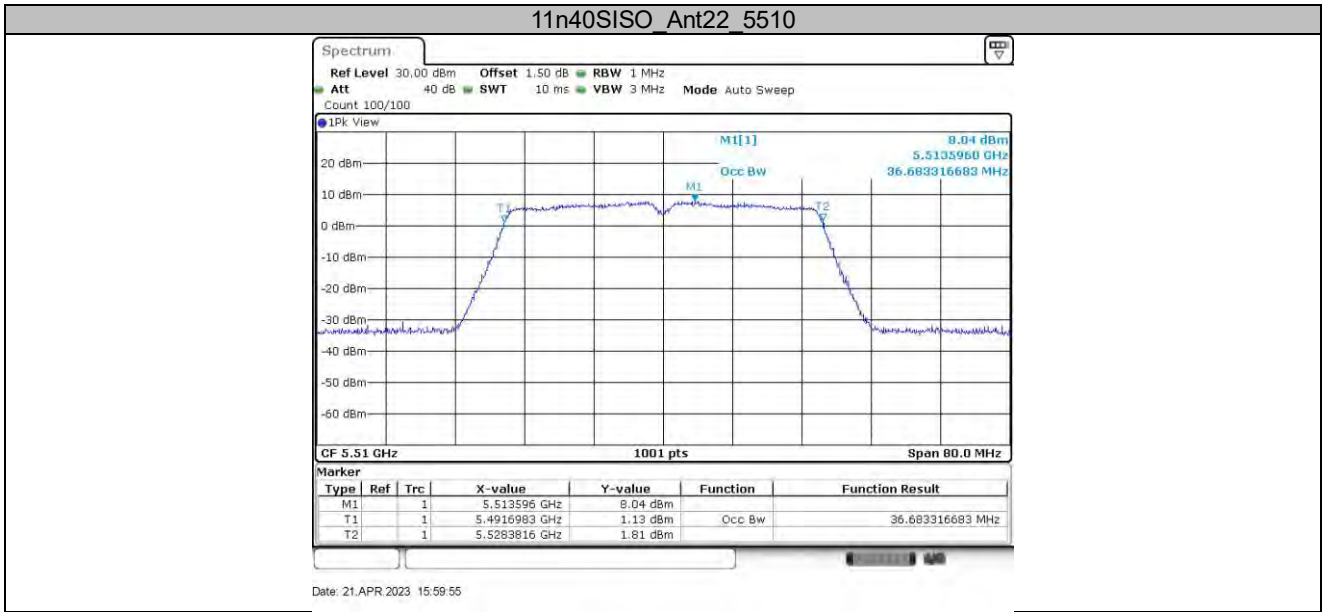
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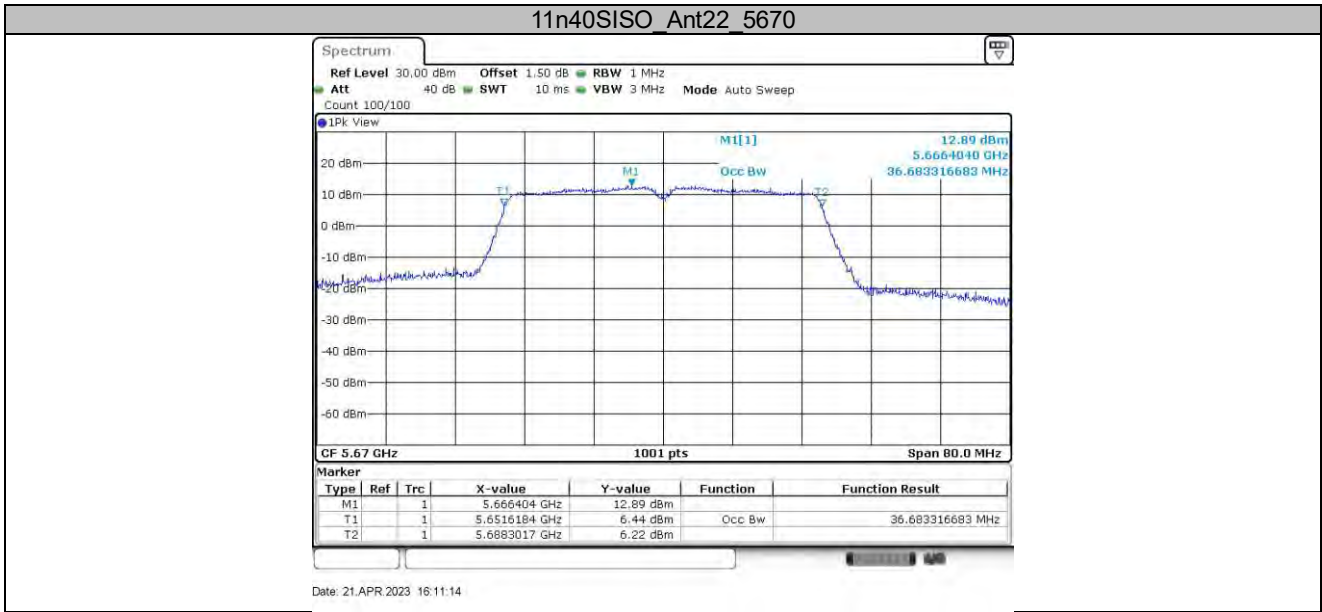
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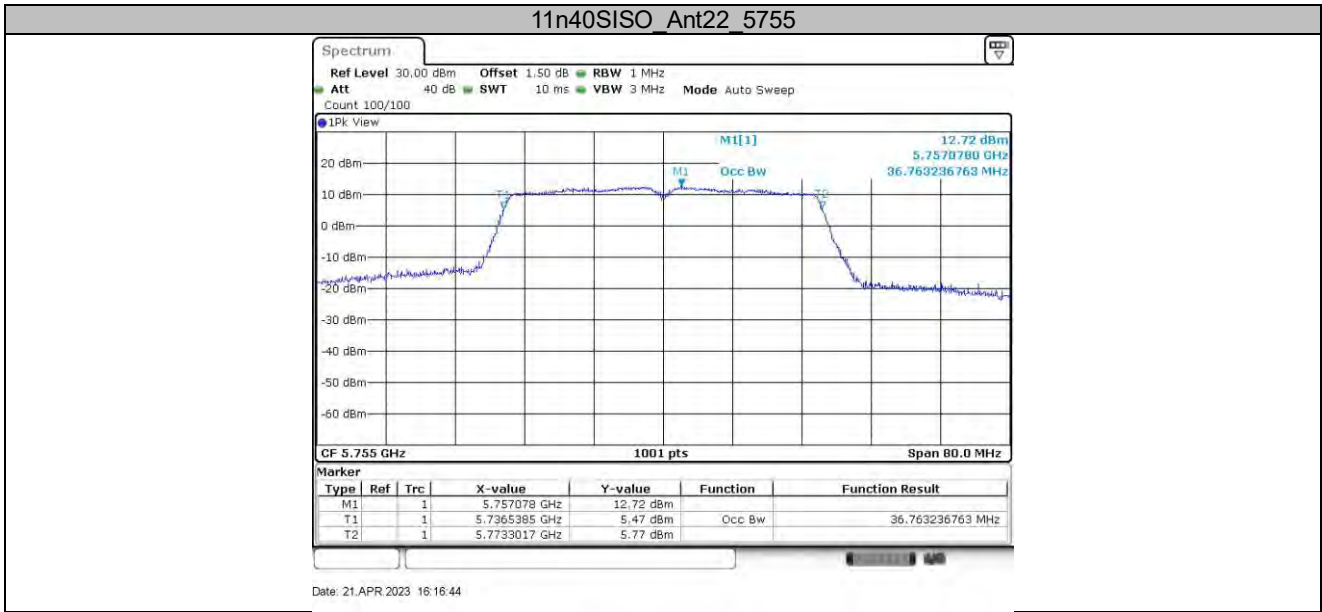
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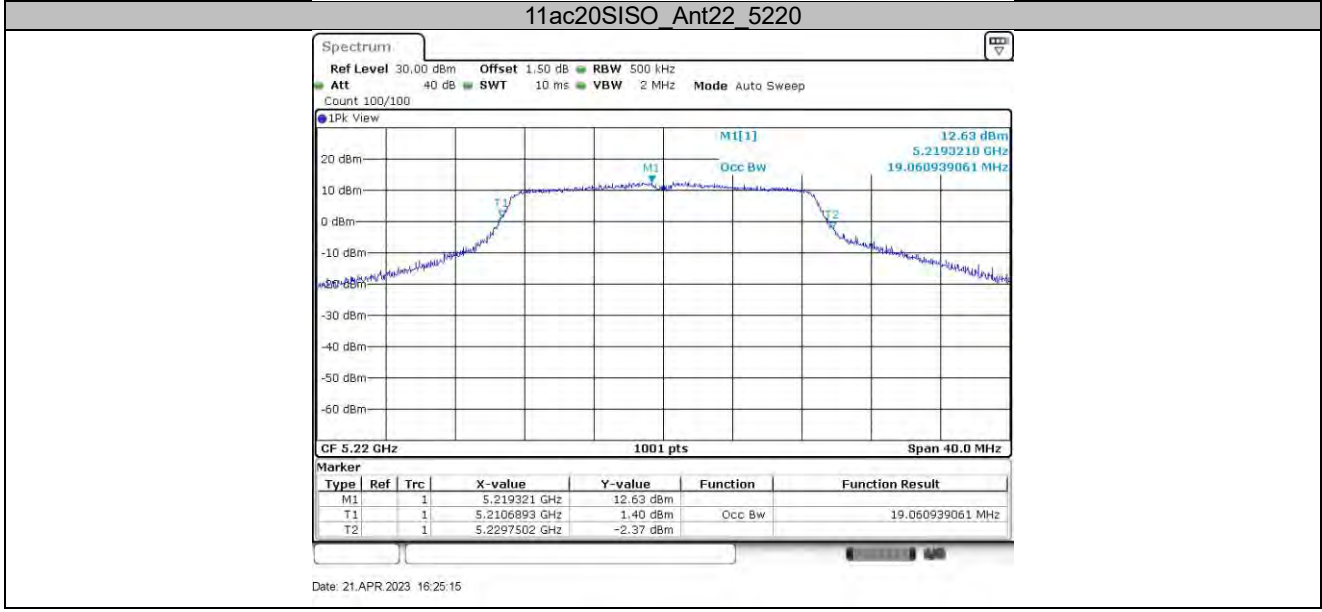
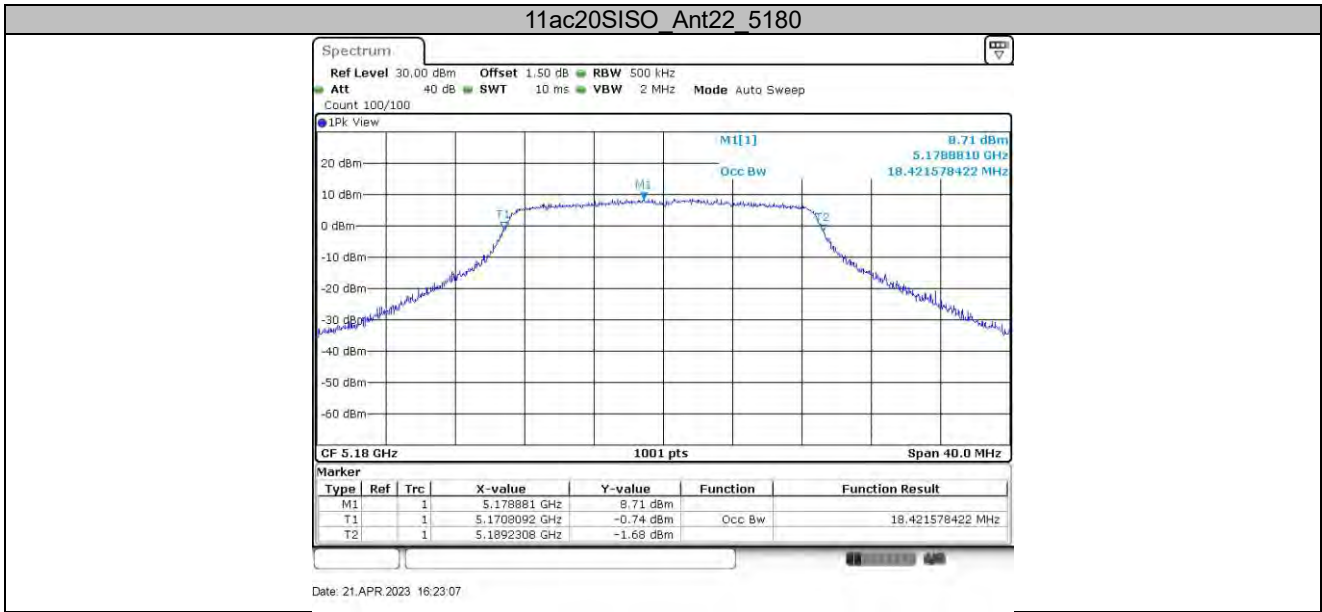
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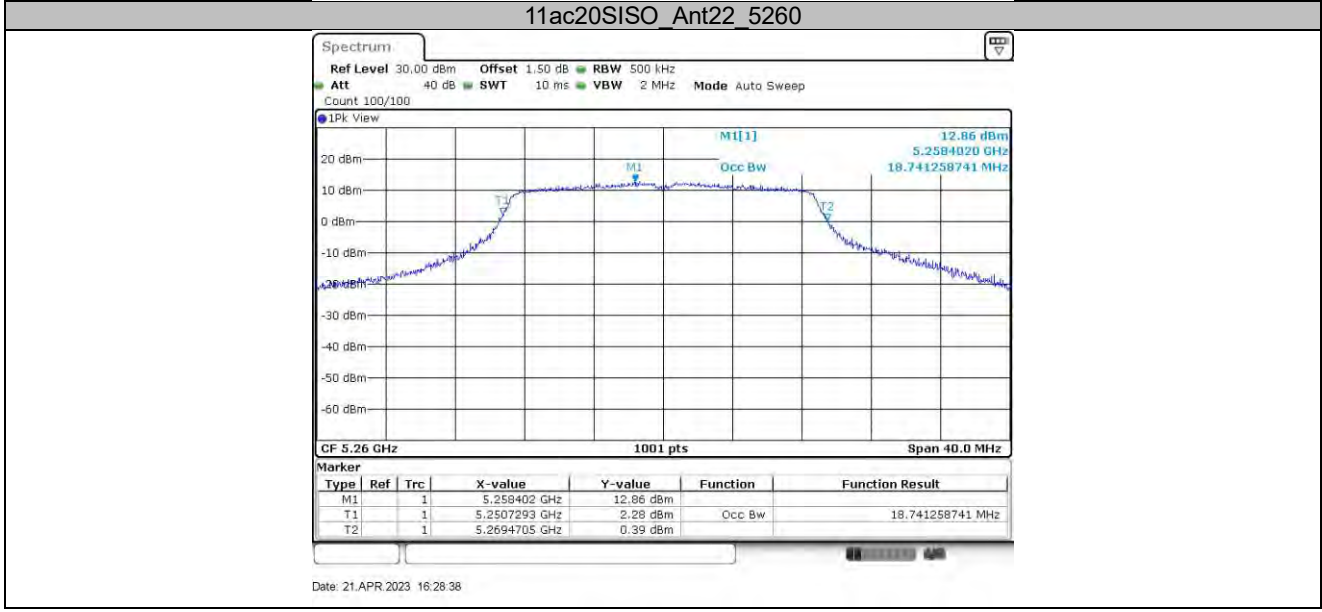
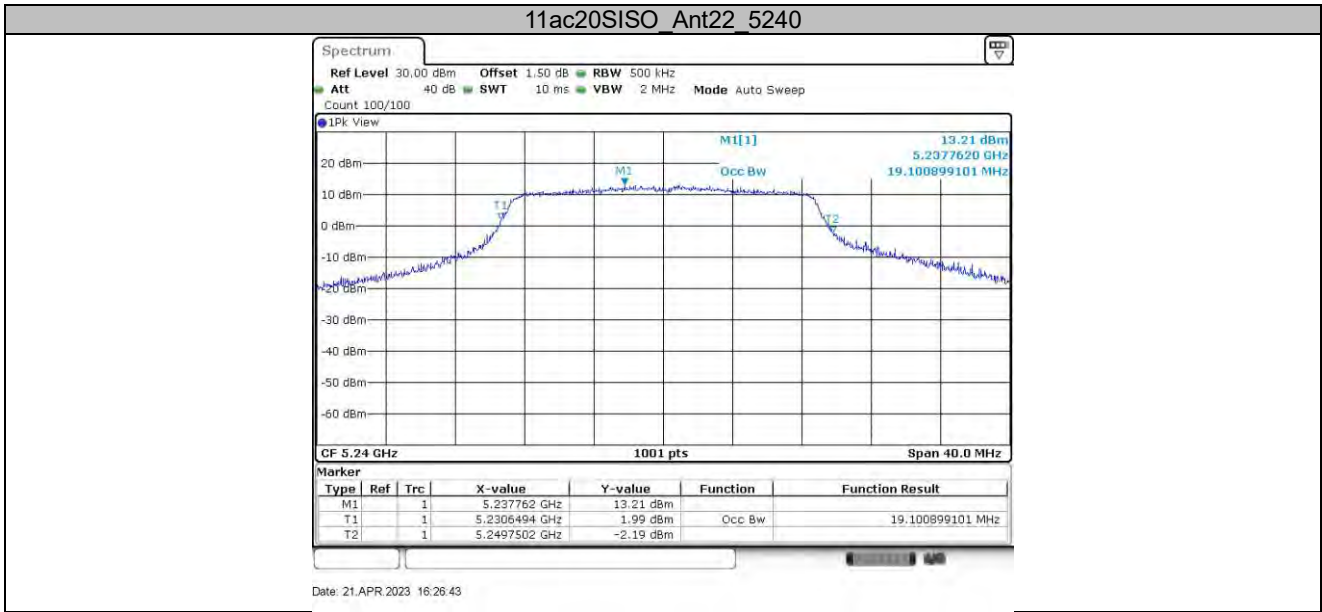
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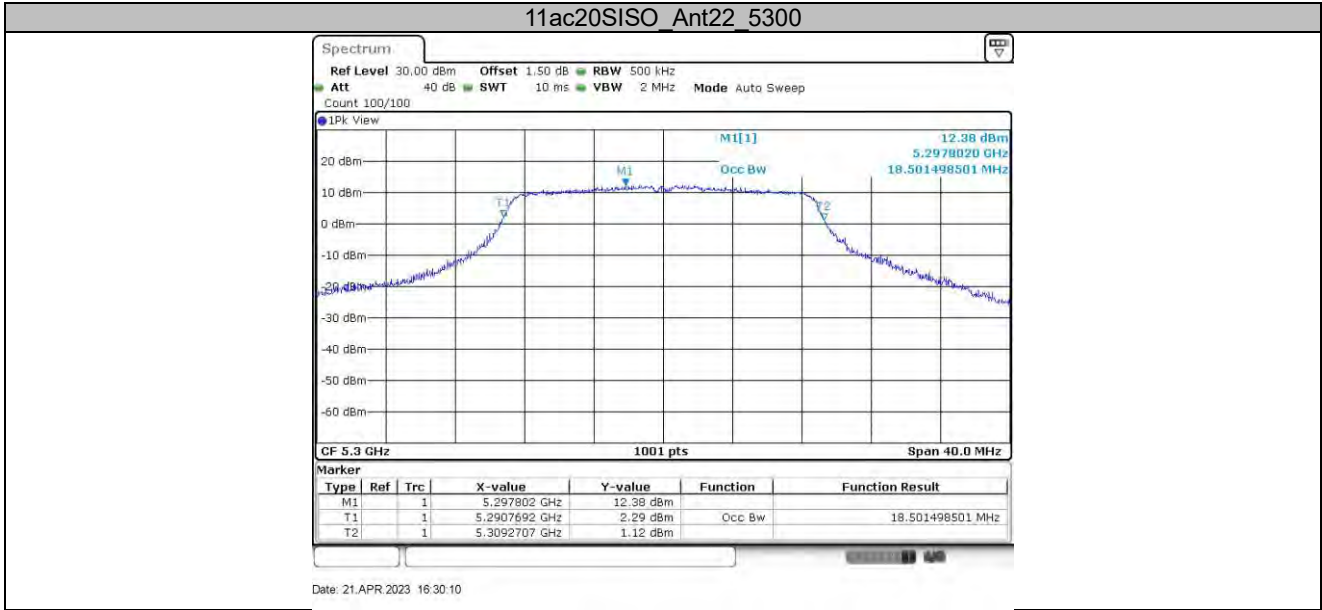
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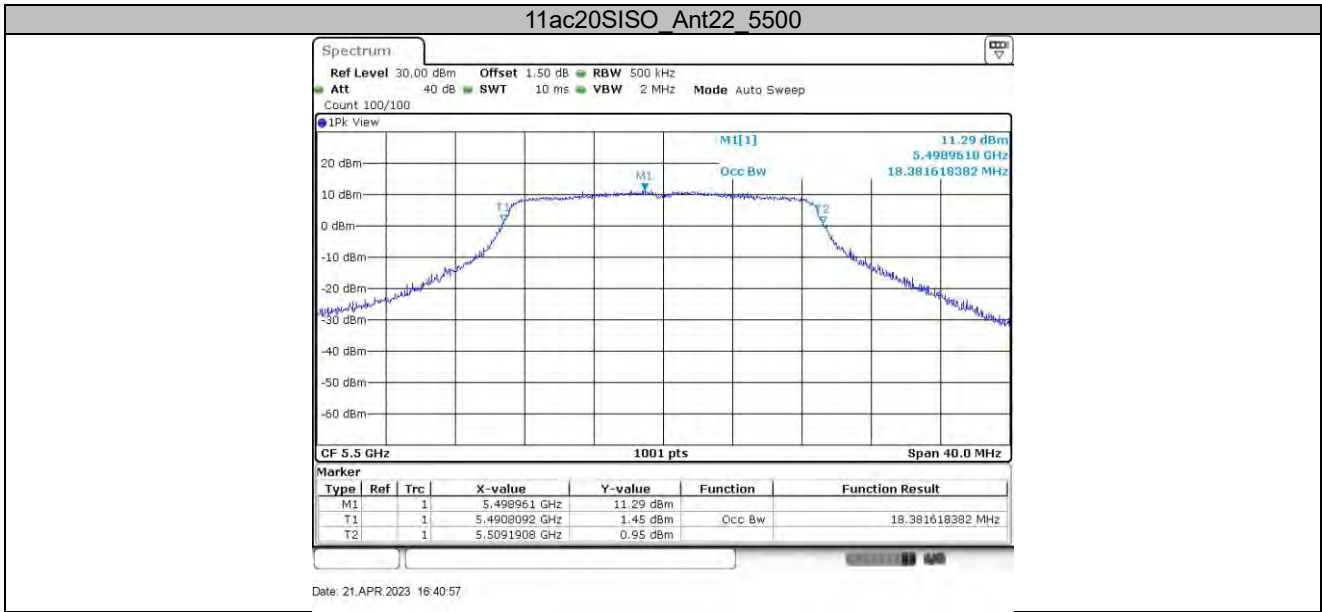
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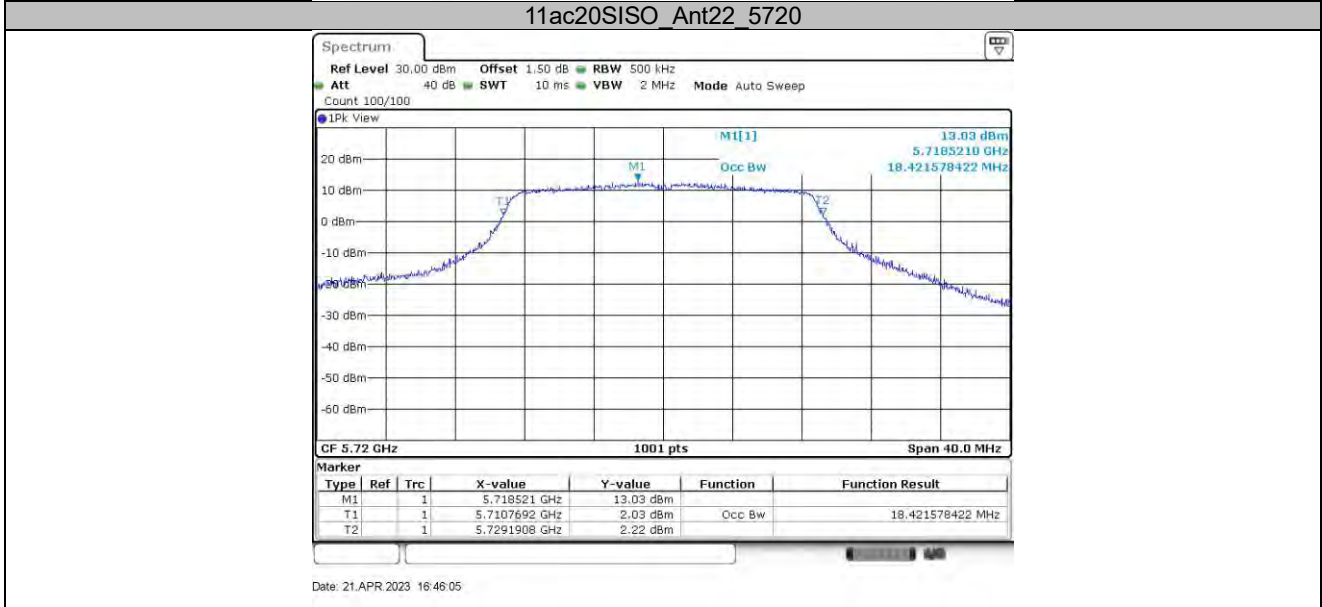
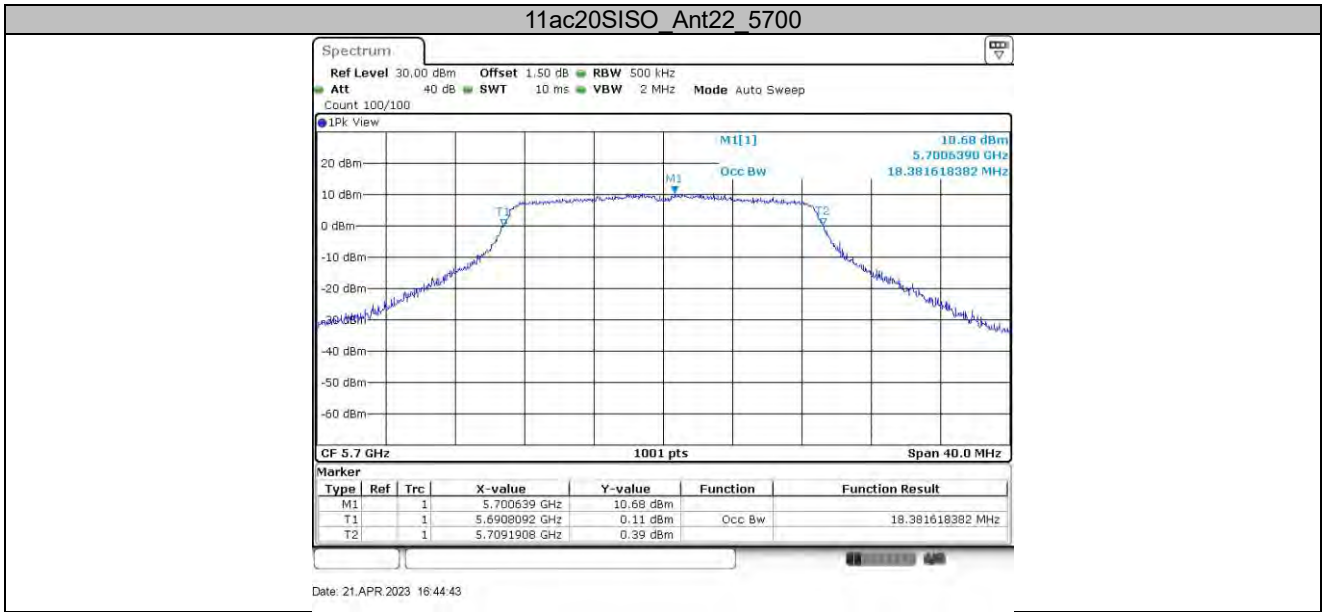
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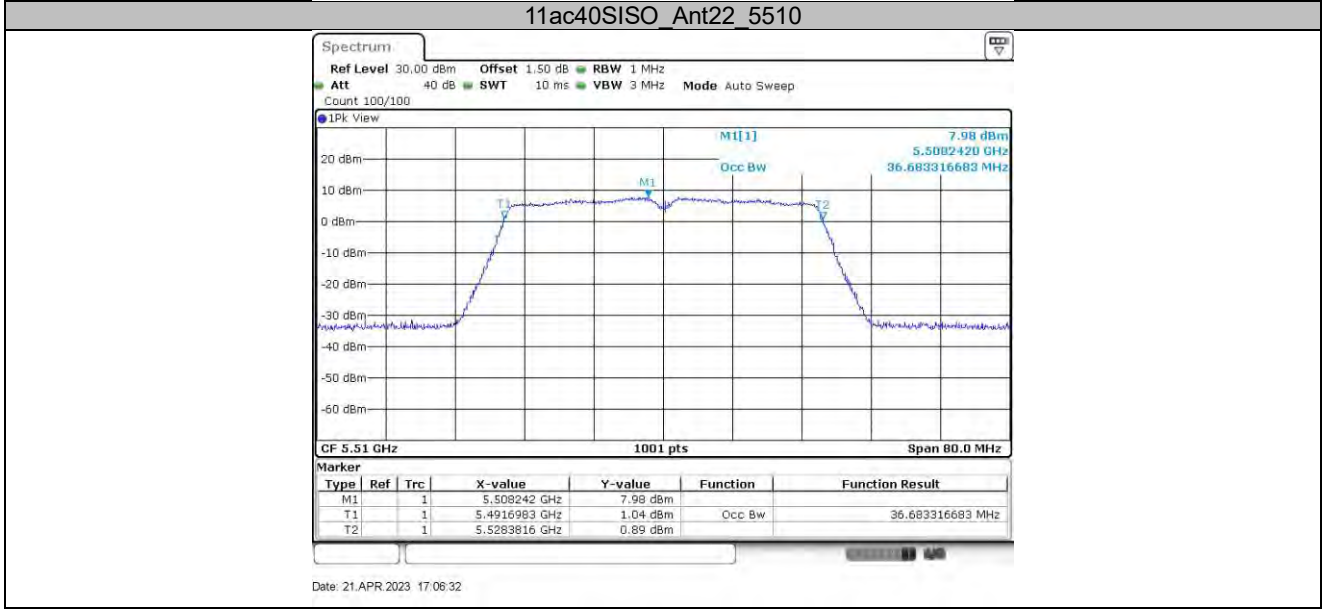
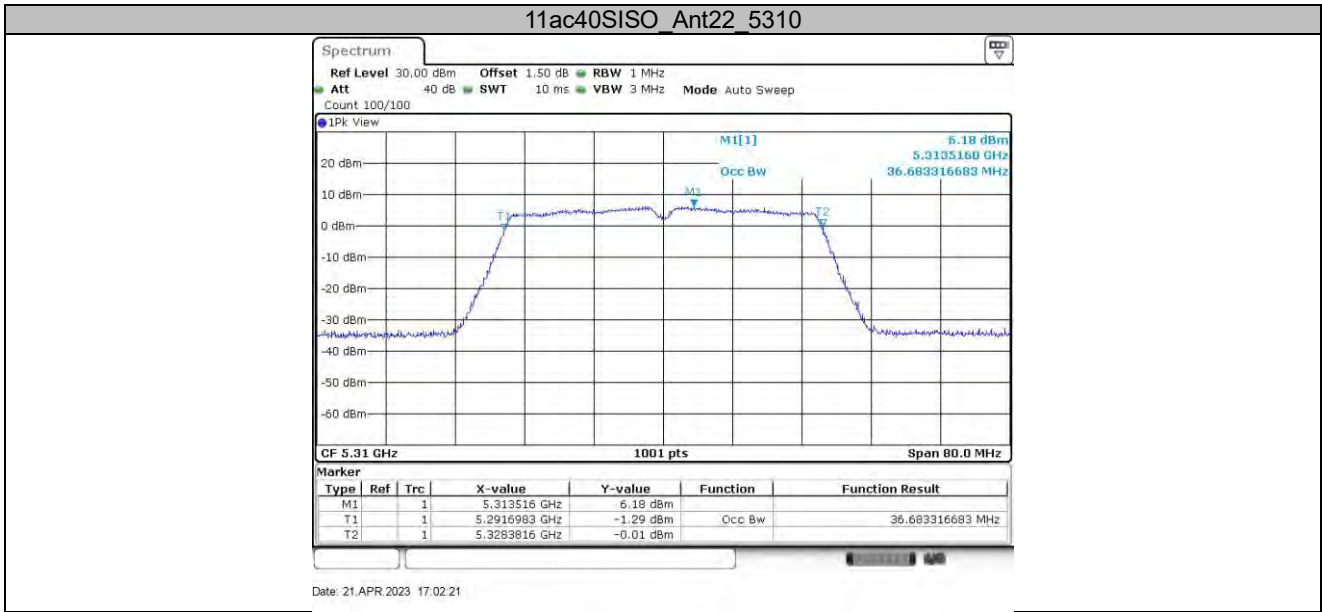
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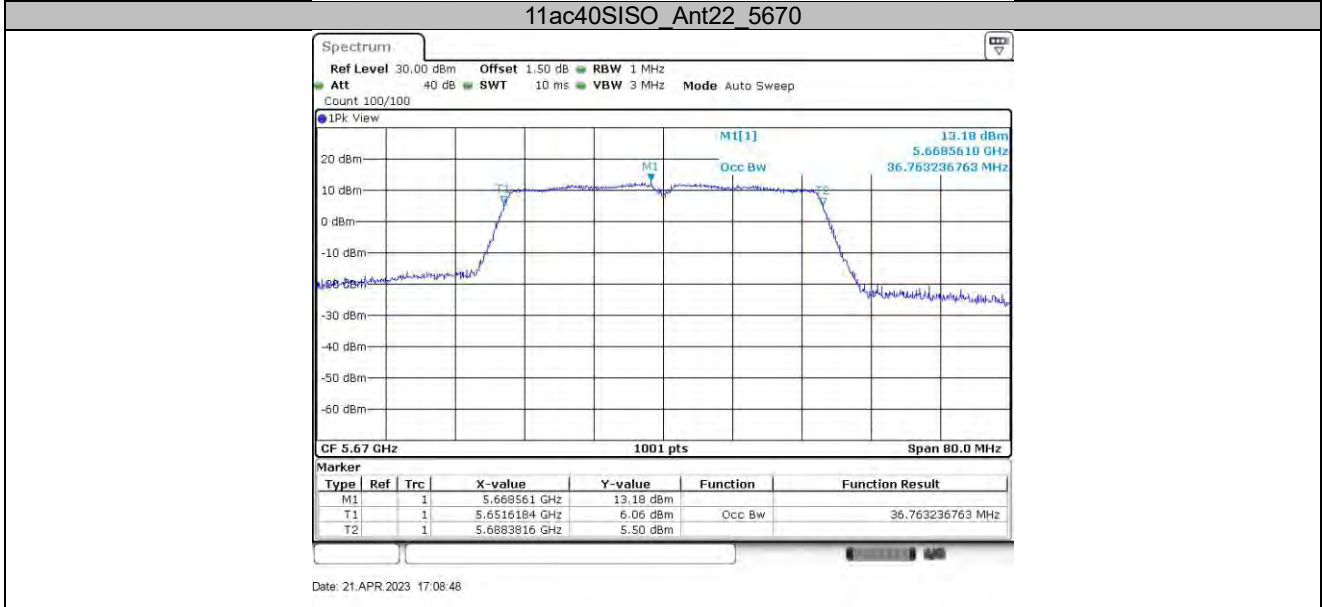
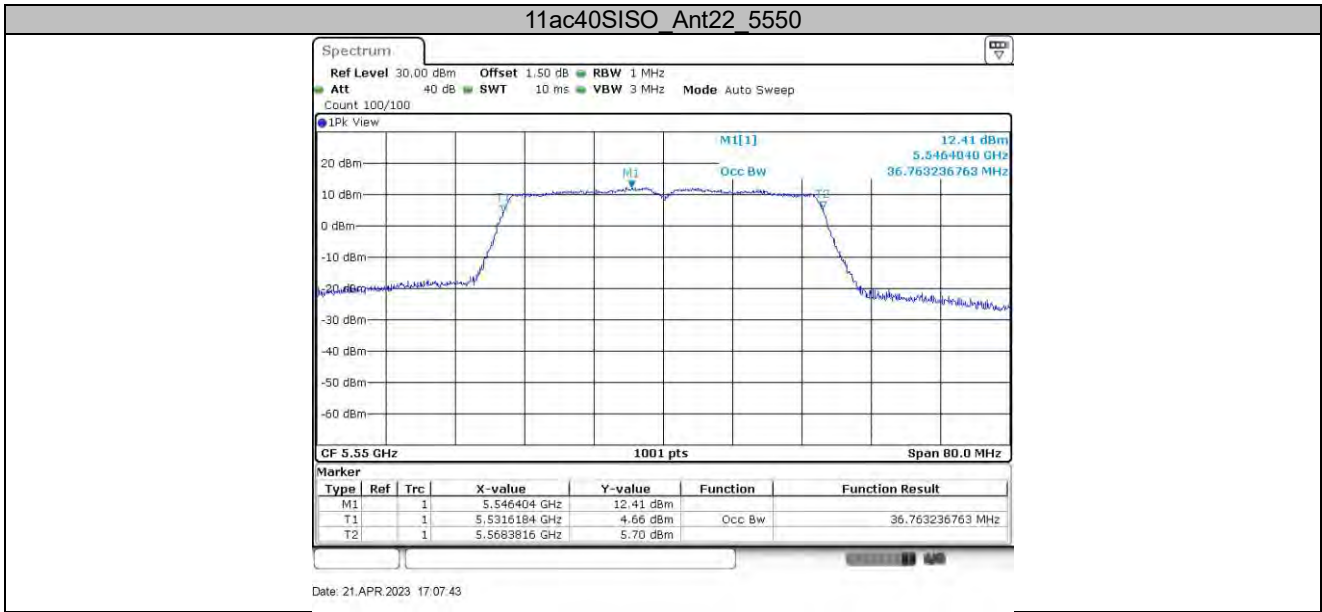
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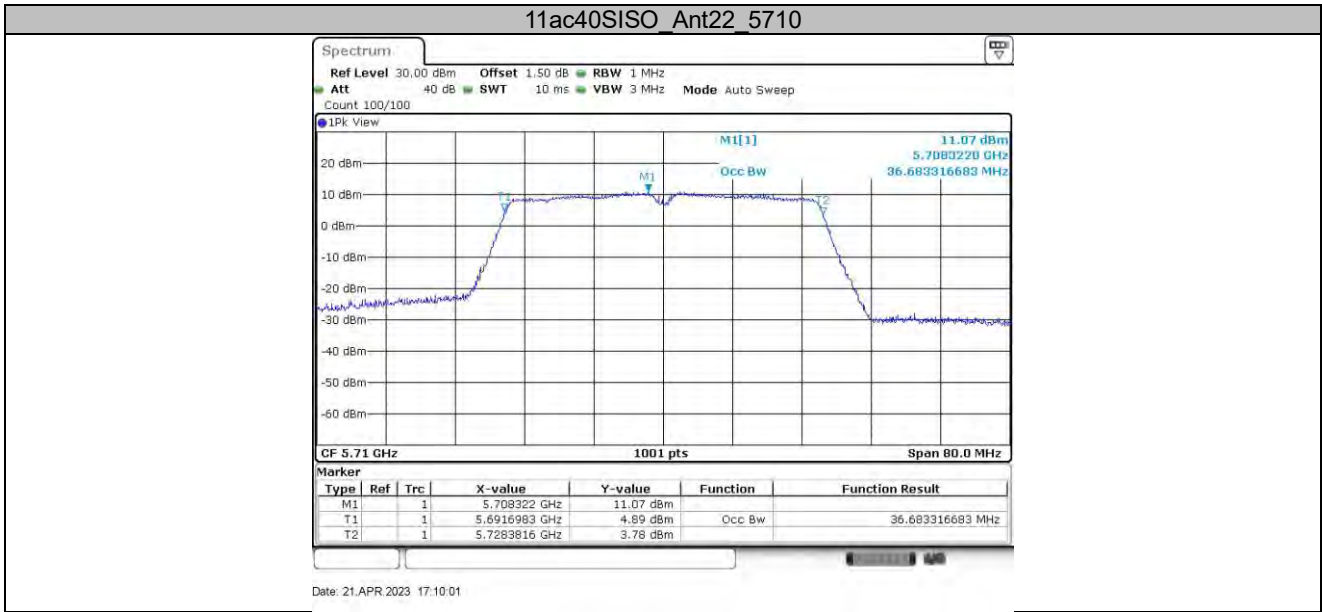
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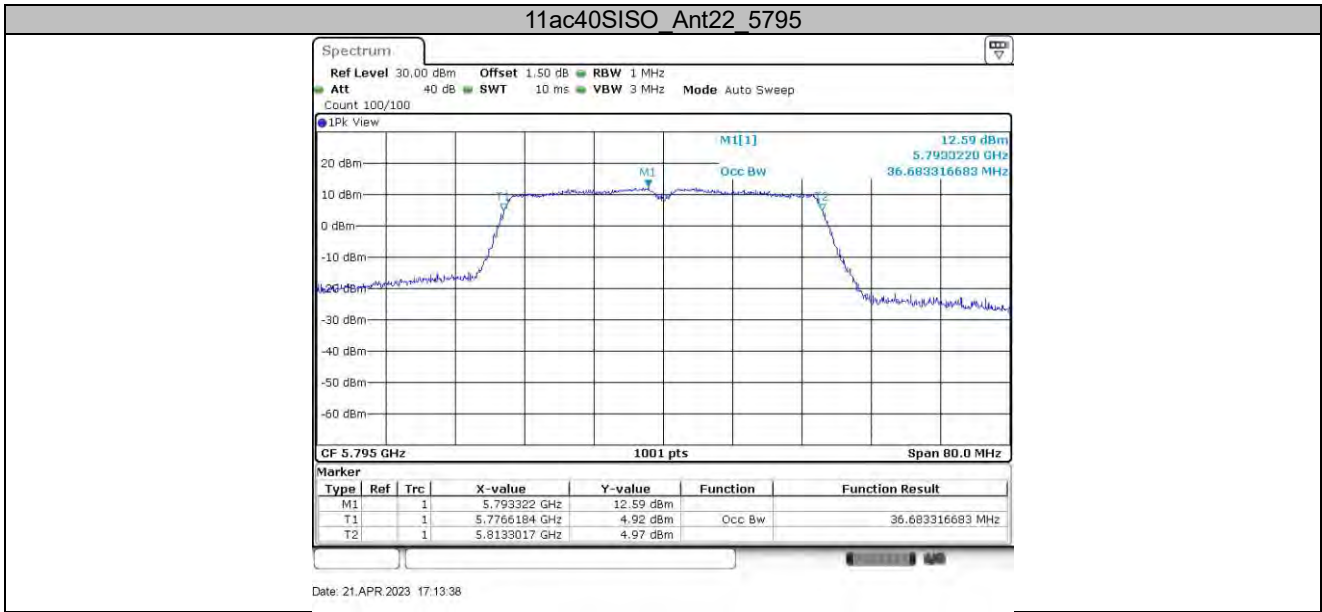
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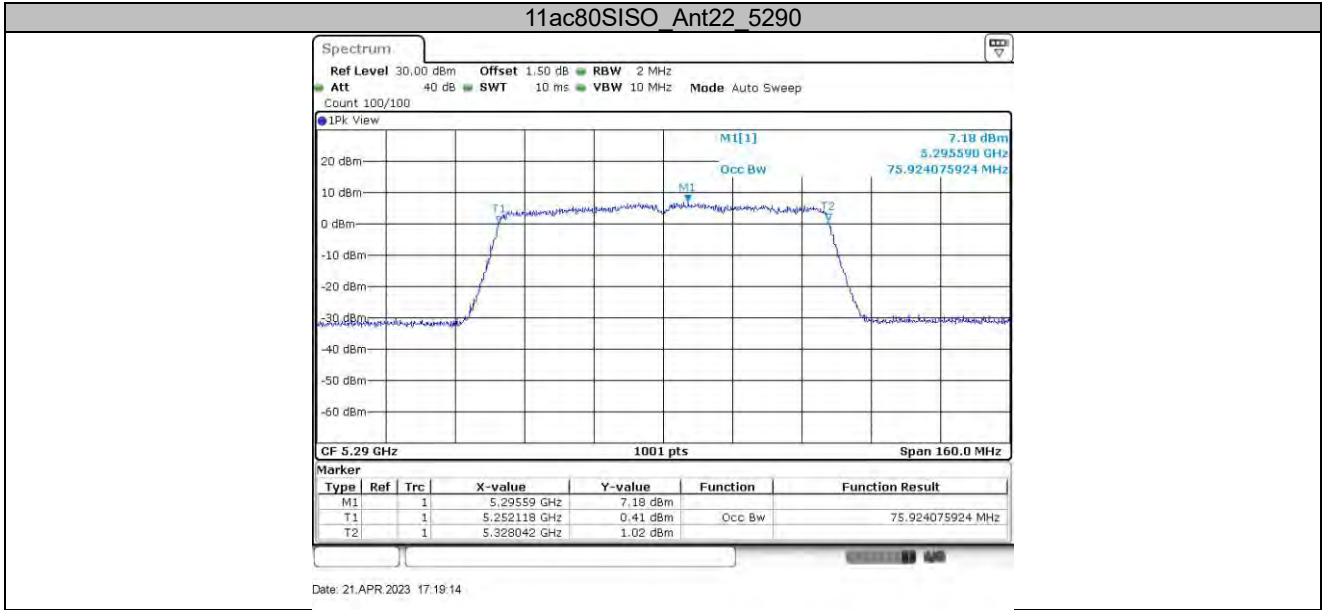
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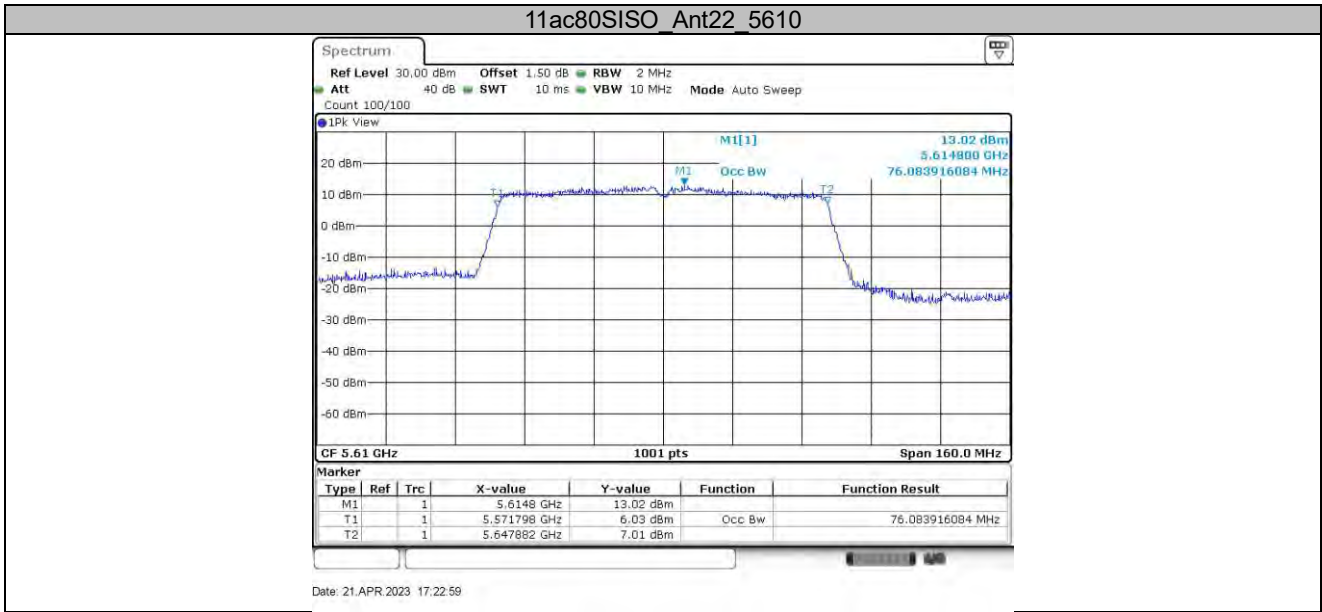
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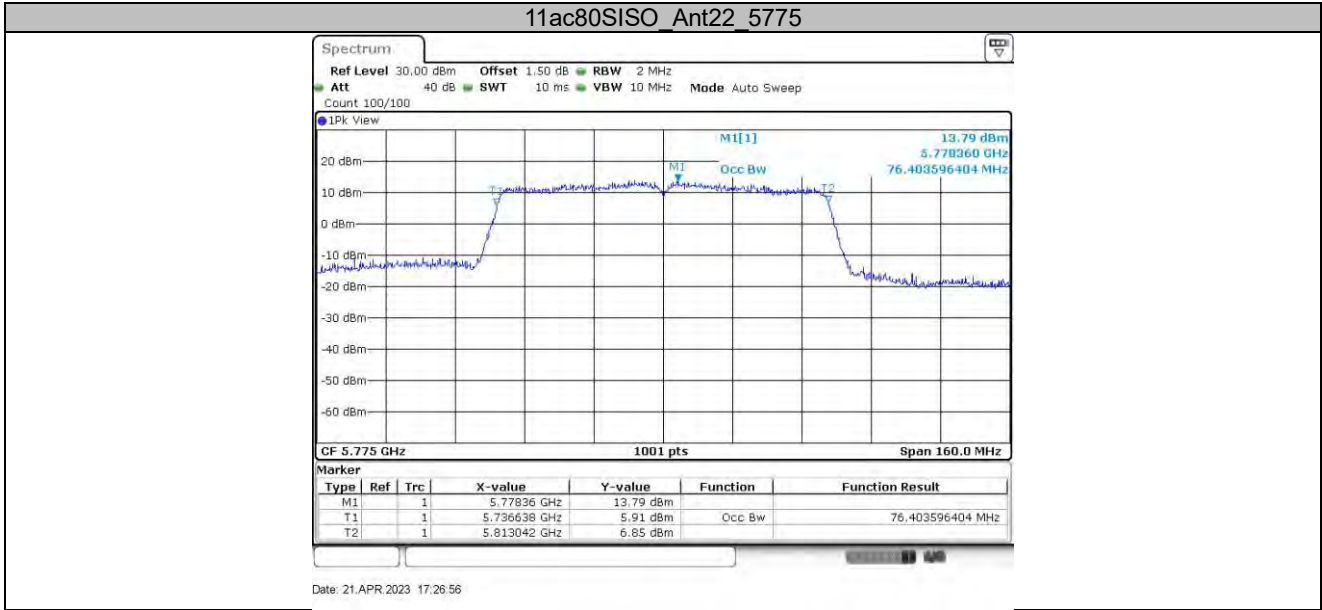
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## 6dB emission bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant22	5745	16.40	5736.76	5753.16	≥0.5	PASS
		5785	15.76	5777.16	5792.92	≥0.5	PASS
		5825	15.56	5817.04	5832.60	≥0.5	PASS
11n20SISO	Ant22	5745	15.56	5737.04	5752.60	≥0.5	PASS
		5785	15.20	5777.40	5792.60	≥0.5	PASS
		5825	15.16	5817.40	5832.56	≥0.5	PASS
11n40SISO	Ant22	5755	36.48	5736.76	5773.24	≥0.5	PASS
		5795	36.48	5776.76	5813.24	≥0.5	PASS
11ac20SISO	Ant22	5745	17.64	5736.16	5753.80	≥0.5	PASS
		5785	17.40	5776.40	5793.80	≥0.5	PASS
		5825	17.64	5816.16	5833.80	≥0.5	PASS
11ac40SISO	Ant22	5755	36.48	5736.76	5773.24	≥0.5	PASS
		5795	36.48	5776.76	5813.24	≥0.5	PASS
11ac80SISO	Ant22	5775	75.52	5737.24	5812.76	≥0.5	PASS



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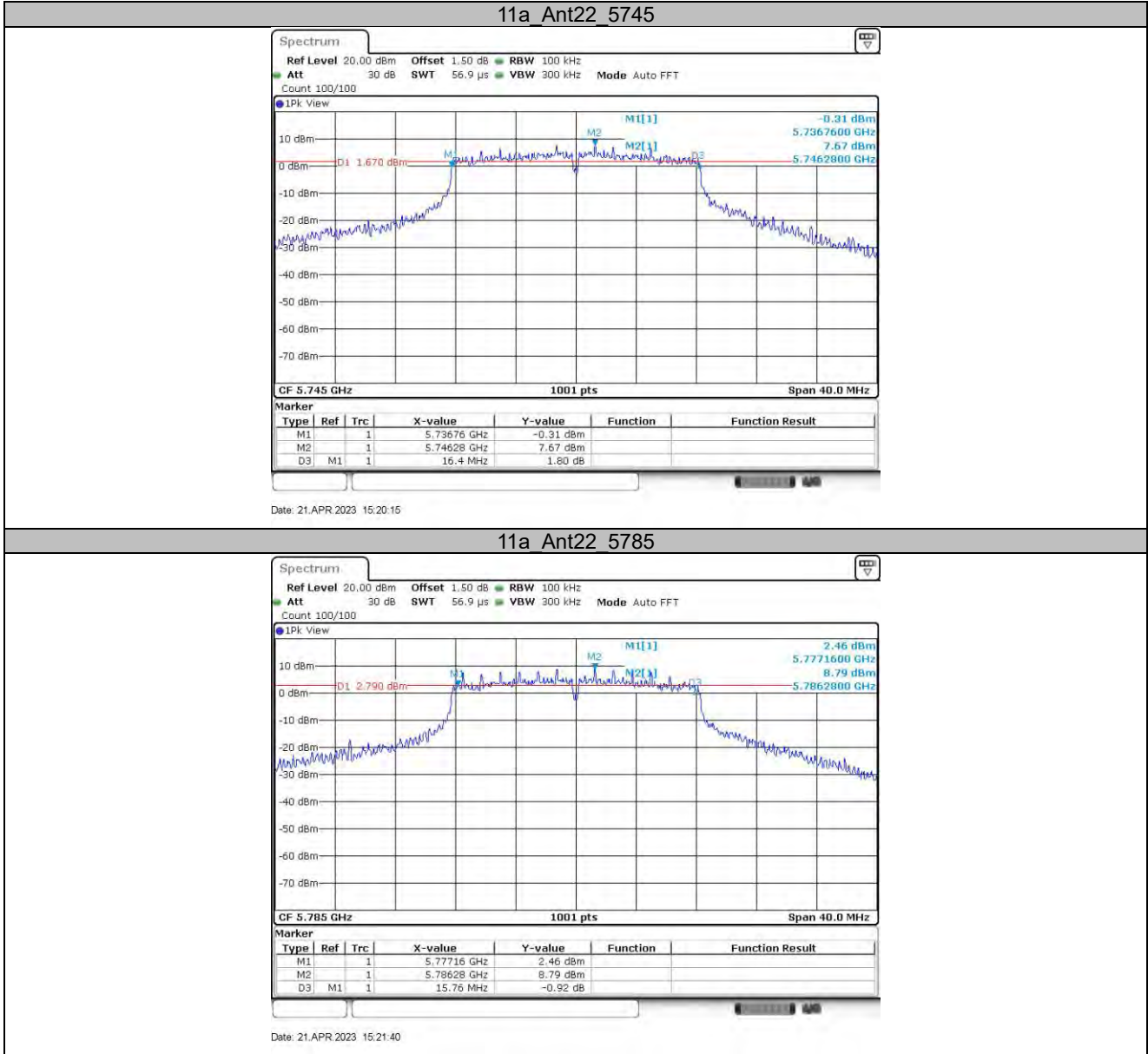




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## Test Graphs



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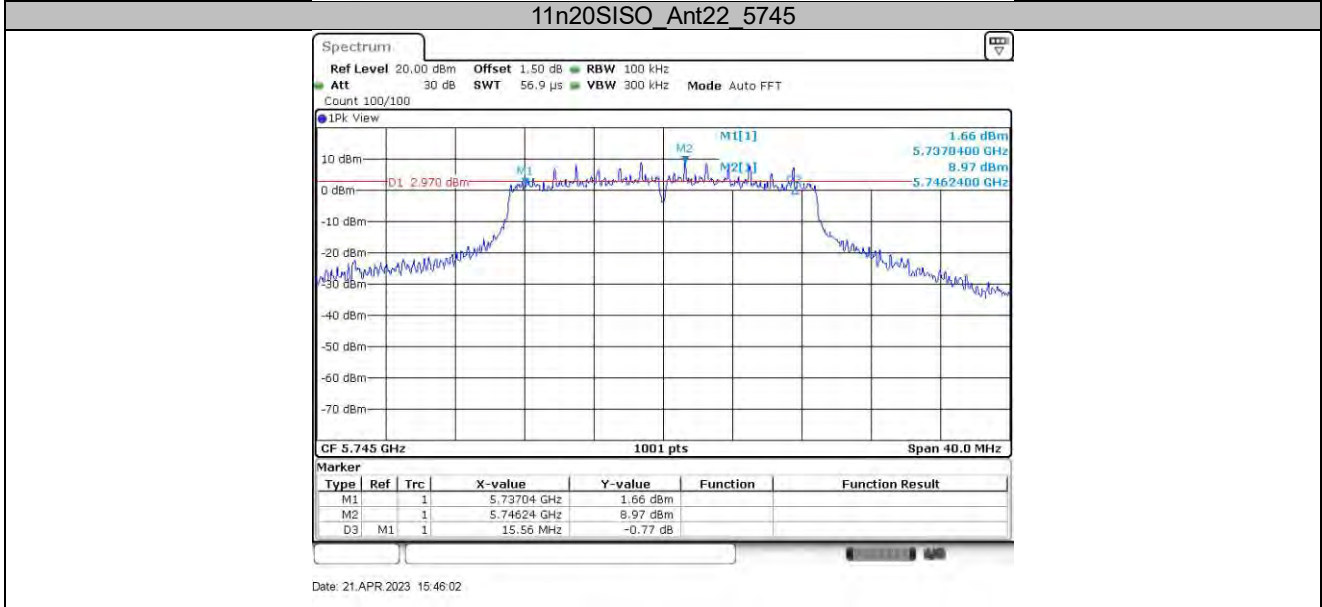
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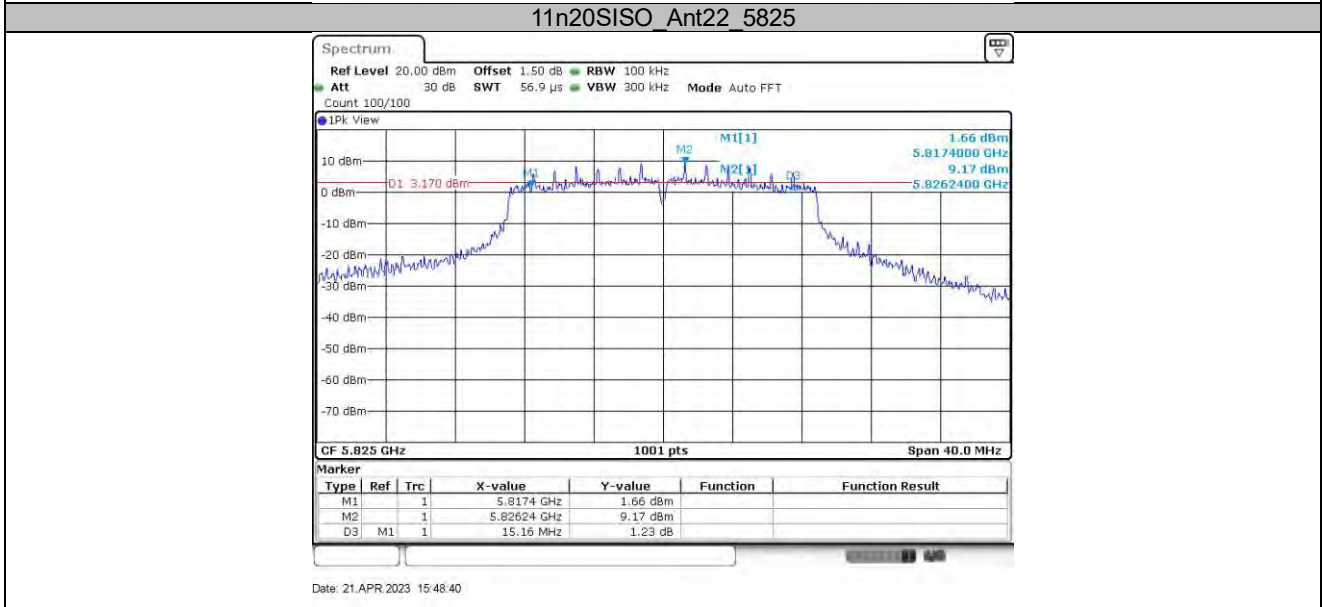
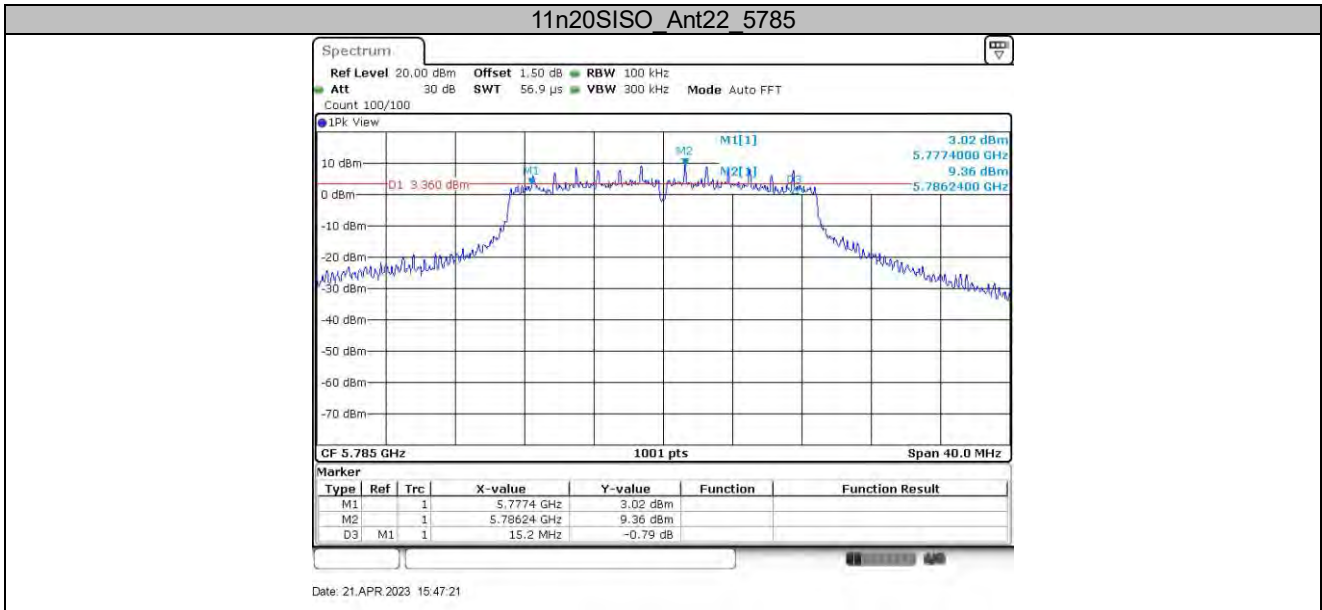
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