

#### 4.12.2 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
<p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

#### 4.12.3 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>	



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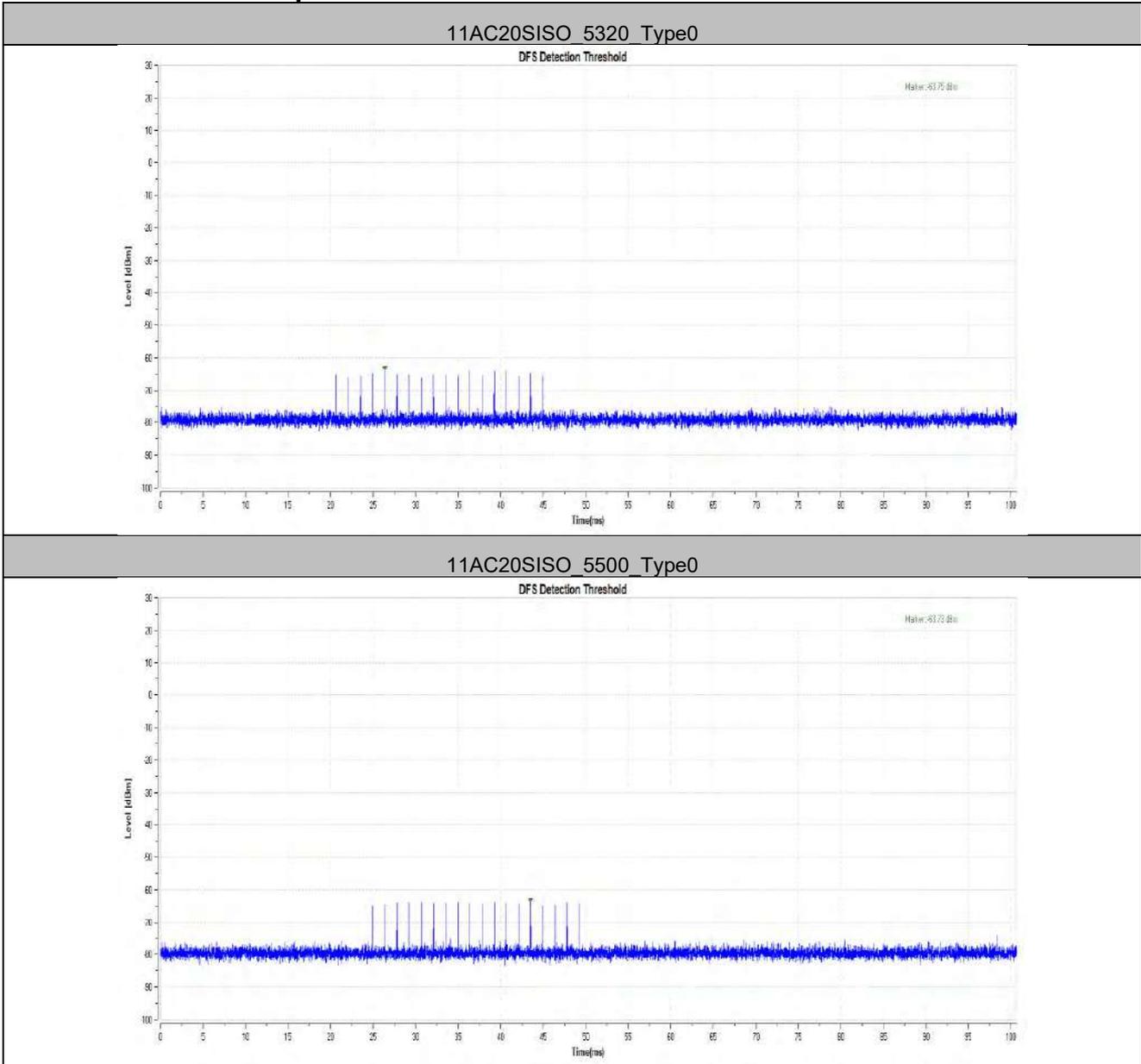
**4.12.4 Test plots**  
**4.12.4.1 DFS Detection Thresholds**  
**4.12.4.1.1 Test Result**

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-63.75	-62.00	PASS
	5500	Type0	-63.73	-62.00	PASS
11AC80SISO	5290	Type0	-62.36	-62.00	PASS
	5530	Type0	-63.30	-62.00	PASS

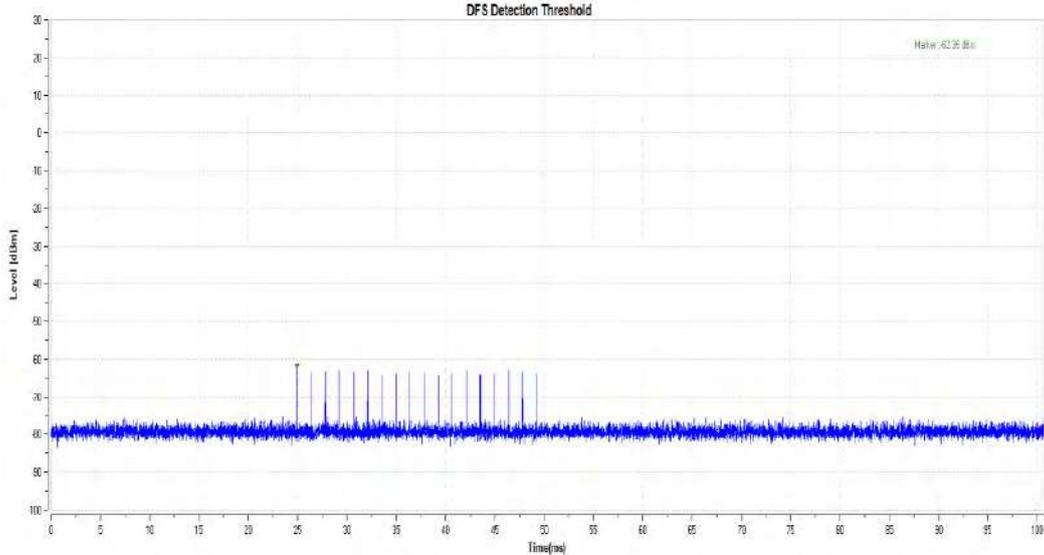
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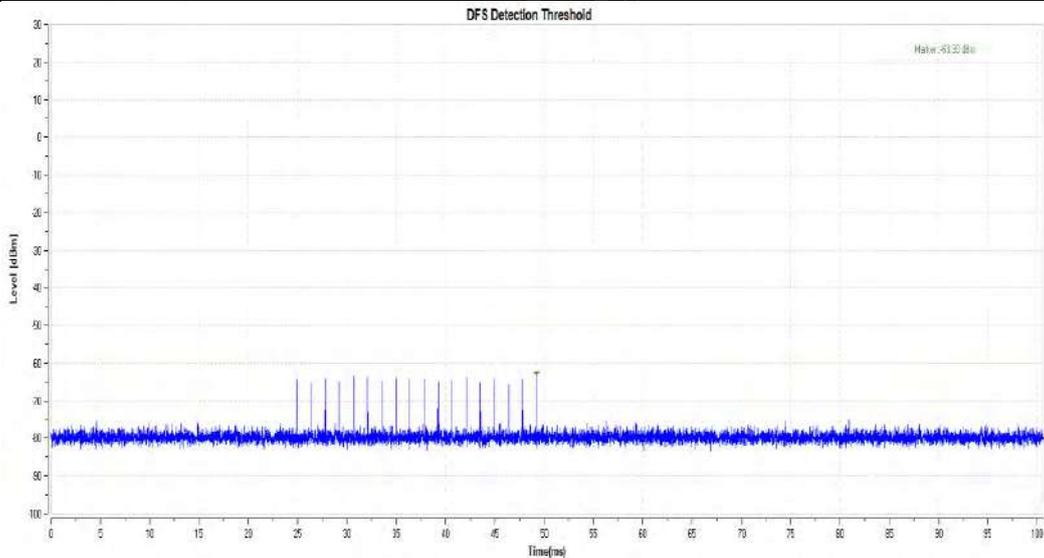
### 4.12.4.1.2 Test Graphs



### 11AC80SISO\_5290\_Type0



### 11AC80SISO\_5530\_Type0



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**4.12.4.2 Channel Move Time and Channel Closing Transmission Time**

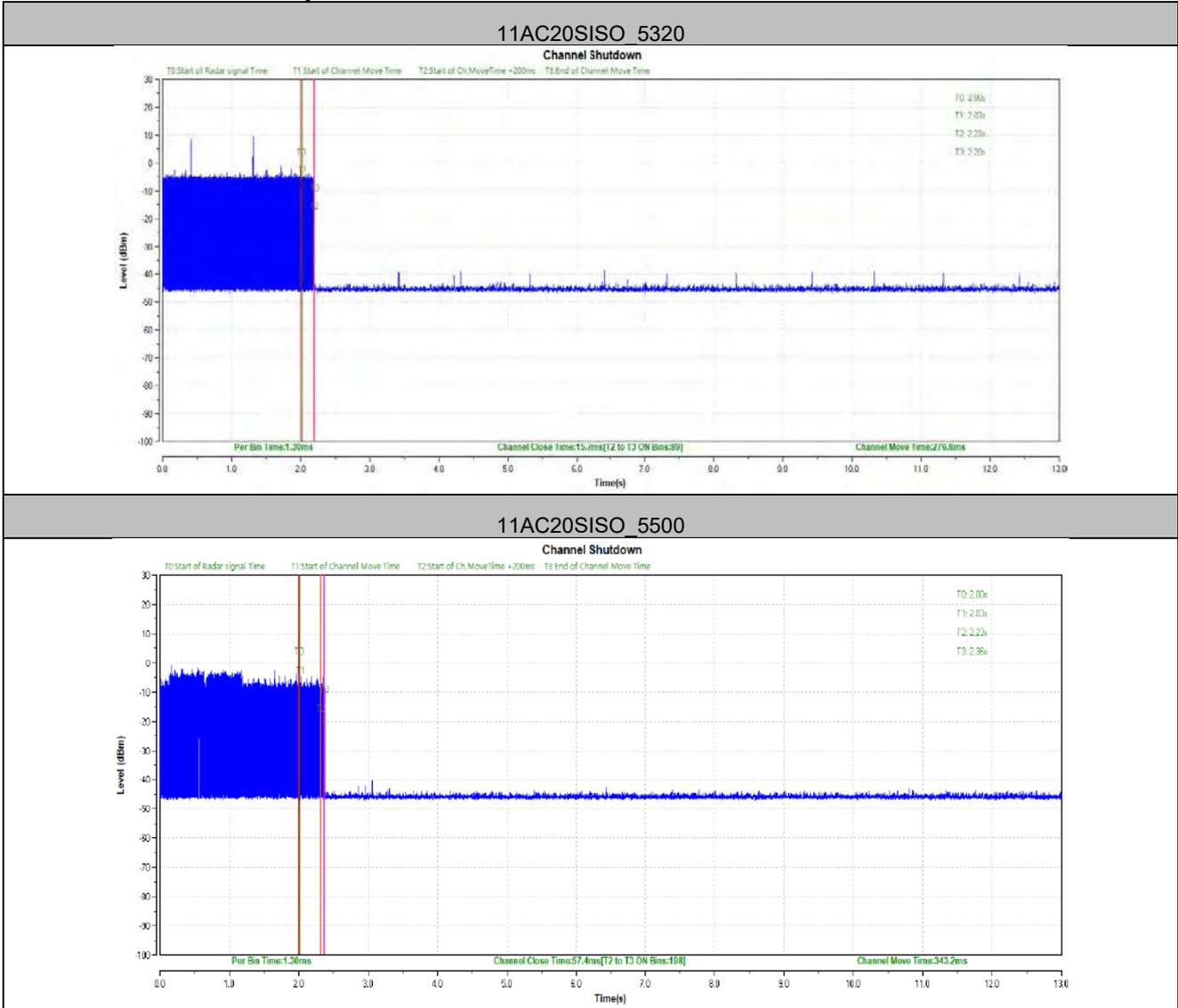
**4.12.4.2.1 Test Result**

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	15.7	60	276.8	10000	PASS
	5500	57.4	60	343.2	10000	PASS
11AC80SISO	5290	25.4	60	293.8	10000	PASS
	5530	0	60	245.7	10000	PASS

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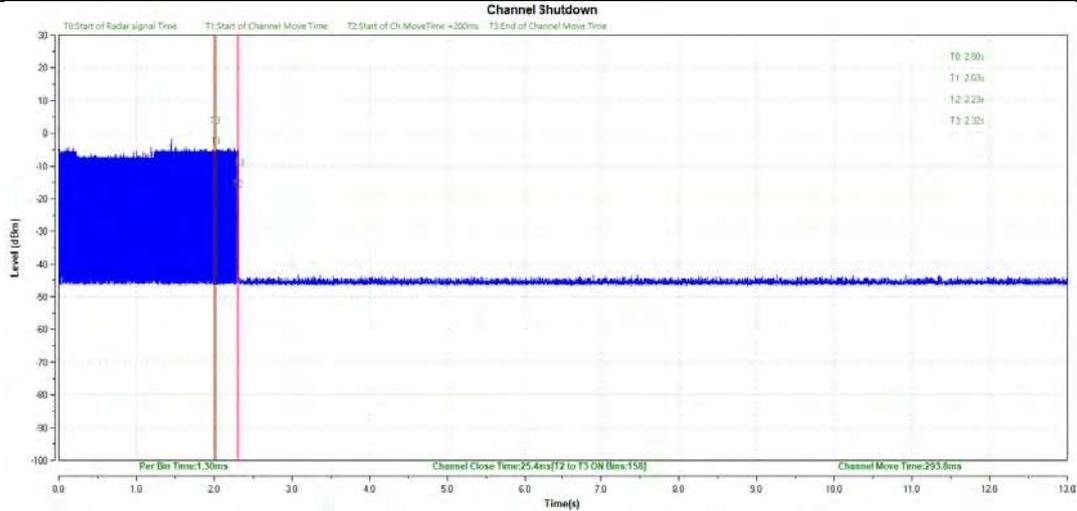
### 4.12.4.2.2 Test Graphs



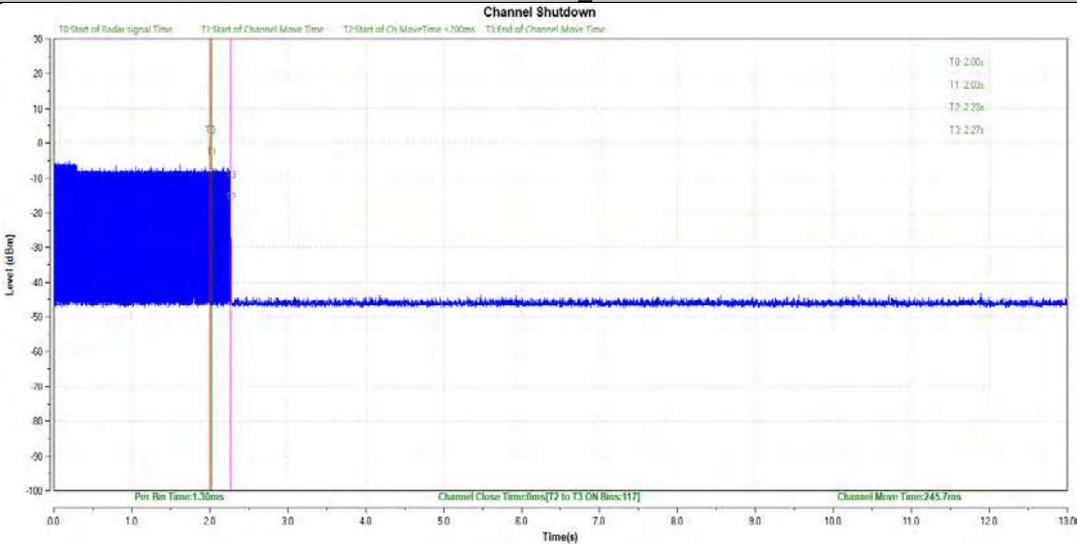
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### 11AC80SISO\_5290



### 11AC80SISO\_5530



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**4.12.4.3 Non-Occupancy Period**

**4.12.4.3.1 Test Result**

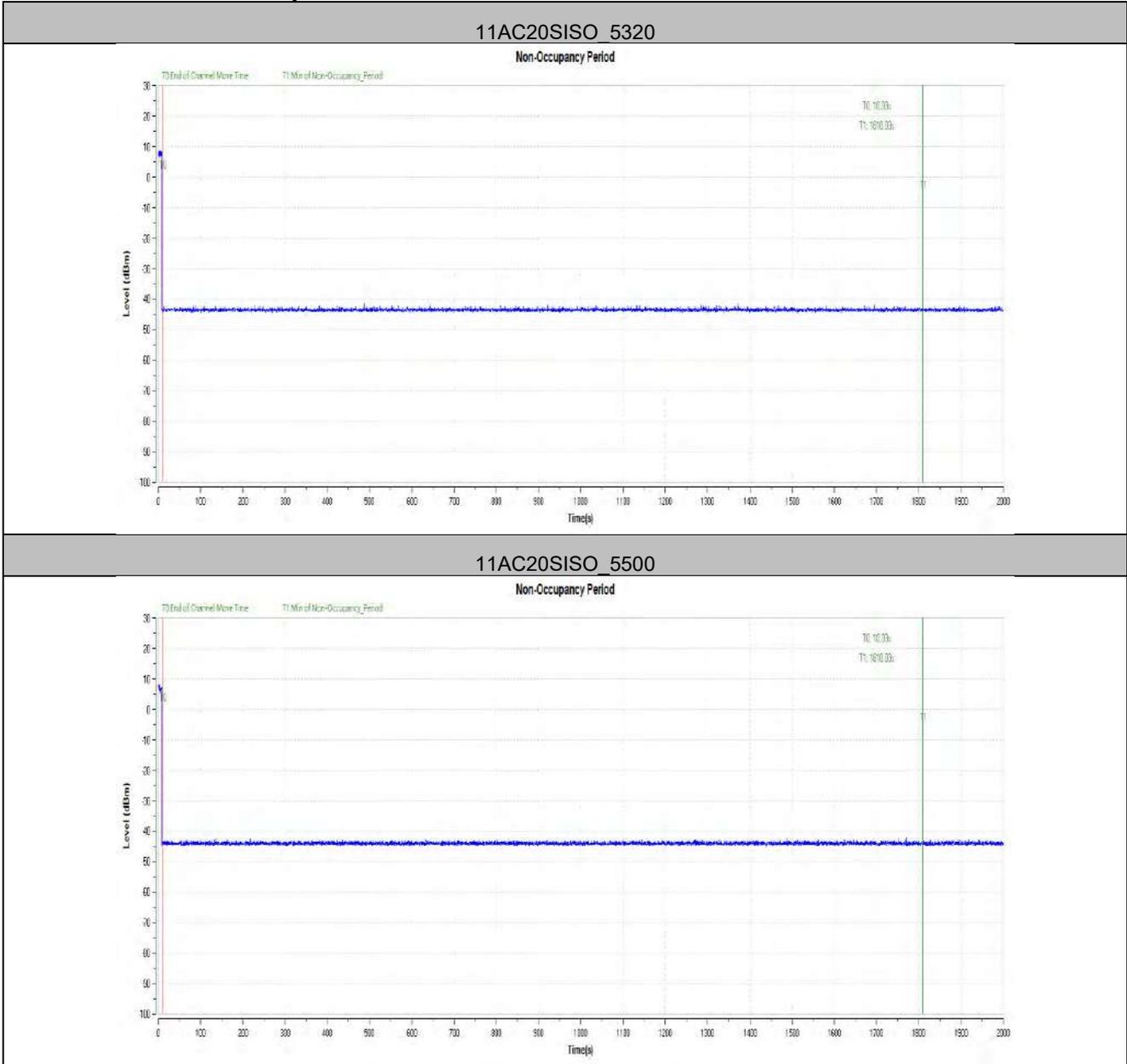
TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS

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### 4.12.4.3.2 Test Graphs



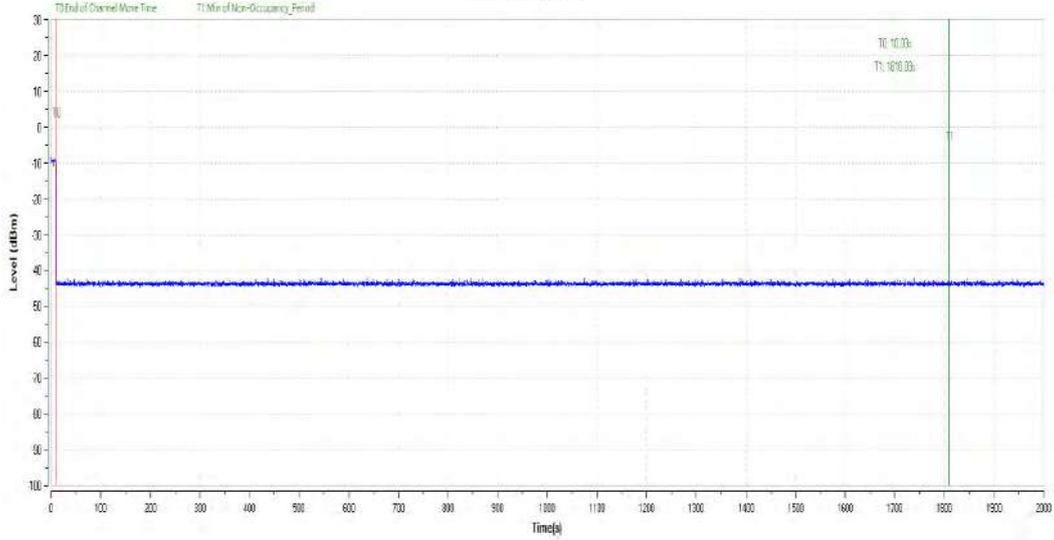
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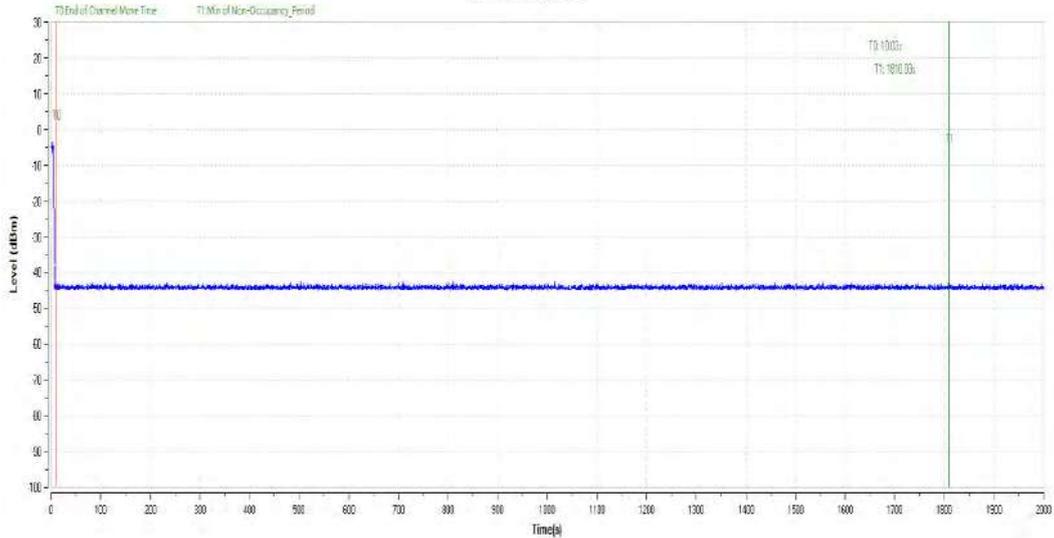
### 11AC80SISO\_5290

Non-Occupancy Period



### 11AC80SISO\_5530

Non-Occupancy Period



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/3/2	2021/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2020/2/11	2021/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2020/2/11	2021/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/7/14	2021/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2020/10/20	2021/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020/3/2	2021/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A PCE Setup Photos.

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The End



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# Appendix OFDM



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## Emission Bandwidth

### Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	24.360	5169.350	5193.710	---	PASS
	Ant2	5180	23.520	5168.900	5192.420	---	PASS
	Ant1	5200	23.400	5189.320	5212.720	---	PASS
	Ant2	5200	23.400	5189.020	5212.420	---	PASS
	Ant1	5240	23.100	5229.290	5252.390	---	PASS
	Ant2	5240	21.900	5229.560	5251.460	---	PASS
	Ant1	5260	23.100	5249.320	5272.420	---	PASS
	Ant2	5260	23.010	5249.410	5272.420	---	PASS
	Ant1	5300	23.940	5289.680	5313.620	---	PASS
	Ant2	5300	23.160	5289.320	5312.480	---	PASS
	Ant1	5320	25.080	5308.870	5333.950	---	PASS
	Ant2	5320	25.710	5308.210	5333.920	---	PASS
	Ant1	5500	22.560	5489.860	5512.420	---	PASS
	Ant2	5500	22.710	5489.770	5512.480	---	PASS
	Ant1	5580	22.500	5569.950	5592.450	---	PASS
	Ant2	5580	22.800	5569.950	5592.750	---	PASS
	Ant1	5700	23.970	5689.890	5713.860	---	PASS
	Ant2	5700	21.780	5689.260	5711.040	---	PASS
	Ant1	5745	26.100	5733.660	5759.760	---	PASS
	Ant2	5745	25.590	5734.260	5759.850	---	PASS
Ant1	5785	26.430	5773.030	5799.460	---	PASS	
Ant2	5785	26.430	5773.570	5800.000	---	PASS	
Ant1	5825	29.940	5810.060	5840.000	---	PASS	
Ant2	5825	29.430	5810.570	5840.000	---	PASS	
11N20MIMO	Ant1	5180	23.340	5168.870	5192.210	---	PASS
	Ant2	5180	23.670	5168.000	5191.670	---	PASS
	Ant1	5200	24.600	5187.520	5212.120	---	PASS
	Ant2	5200	22.830	5188.660	5211.490	---	PASS
	Ant1	5240	22.830	5228.480	5251.310	---	PASS
	Ant2	5240	23.880	5228.150	5252.030	---	PASS



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	Ant1	5260	23.400	5248.150	5271.550	---	PASS
	Ant2	5260	23.100	5248.540	5271.640	---	PASS
	Ant1	5300	23.550	5288.450	5312.000	---	PASS
	Ant2	5300	22.560	5288.930	5311.490	---	PASS
	Ant1	5320	25.410	5307.310	5332.720	---	PASS
	Ant2	5320	24.060	5308.480	5332.540	---	PASS
	Ant1	5500	22.050	5489.230	5511.280	---	PASS
	Ant2	5500	22.020	5488.960	5510.980	---	PASS
	Ant1	5580	22.530	5569.050	5591.580	---	PASS
	Ant2	5580	21.630	5569.200	5590.830	---	PASS
	Ant1	5700	22.140	5689.230	5711.370	---	PASS
	Ant2	5700	21.900	5688.900	5710.800	---	PASS
	Ant1	5745	26.490	5733.480	5759.970	---	PASS
	Ant2	5745	23.670	5734.200	5757.870	---	PASS
	Ant1	5785	27.510	5772.490	5800.000	---	PASS
	Ant2	5785	24.990	5773.720	5798.710	---	PASS
	Ant1	5825	29.700	5810.300	5840.000	---	PASS
	Ant2	5825	27.810	5811.980	5839.790	---	PASS
11N40MIMO	Ant1	5190	41.280	5169.120	5210.400	---	PASS
	Ant2	5190	40.860	5169.660	5210.520	---	PASS
	Ant1	5230	41.280	5209.300	5250.580	---	PASS
	Ant2	5230	40.620	5209.600	5250.220	---	PASS
	Ant1	5270	40.800	5249.720	5290.520	---	PASS
	Ant2	5270	40.500	5249.720	5290.220	---	PASS
	Ant1	5310	40.860	5289.540	5330.400	---	PASS
	Ant2	5310	40.680	5289.720	5330.400	---	PASS
	Ant1	5510	40.500	5489.600	5530.100	---	PASS
	Ant2	5510	41.100	5489.420	5530.520	---	PASS
	Ant1	5550	40.560	5529.540	5570.100	---	PASS
	Ant2	5550	40.860	5529.720	5570.580	---	PASS
	Ant1	5670	40.740	5649.540	5690.280	---	PASS
	Ant2	5670	41.100	5649.420	5690.520	---	PASS
	Ant1	5755	40.740	5734.540	5775.280	---	PASS
	Ant2	5755	49.680	5734.420	5784.100	---	PASS
	Ant1	5795	54.900	5770.040	5824.940	---	PASS
	Ant2	5795	51.060	5773.940	5825.000	---	PASS



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11AC20MIMO	Ant1	5180	28.200	5166.800	5195.000	---	PASS
	Ant2	5180	22.800	5168.600	5191.400	---	PASS
	Ant1	5200	27.810	5187.190	5215.000	---	PASS
	Ant2	5200	21.900	5188.930	5210.830	---	PASS
	Ant1	5240	29.670	5225.330	5255.000	---	PASS
	Ant2	5240	22.170	5228.990	5251.160	---	PASS
	Ant1	5260	29.550	5245.420	5274.970	---	PASS
	Ant2	5260	22.560	5248.720	5271.280	---	PASS
	Ant1	5300	27.960	5287.040	5315.000	---	PASS
	Ant2	5300	21.930	5289.260	5311.190	---	PASS
	Ant1	5320	29.670	5305.330	5335.000	---	PASS
	Ant2	5320	22.830	5309.170	5332.000	---	PASS
	Ant1	5500	27.690	5487.310	5515.000	---	PASS
	Ant2	5500	21.540	5489.230	5510.770	---	PASS
	Ant1	5580	26.940	5568.060	5595.000	---	PASS
	Ant2	5580	22.050	5569.320	5591.370	---	PASS
	Ant1	5700	27.390	5687.610	5715.000	---	PASS
	Ant2	5700	21.270	5689.290	5710.560	---	PASS
	Ant1	5745	29.640	5730.360	5760.000	---	PASS
	Ant2	5745	24.120	5734.230	5758.350	---	PASS
Ant1	5785	29.820	5770.180	5800.000	---	PASS	
Ant2	5785	24.210	5774.200	5798.410	---	PASS	
Ant1	5825	30.000	5810.000	5840.000	---	PASS	
Ant2	5825	25.830	5813.630	5839.460	---	PASS	
11AC40MIMO	Ant1	5190	40.260	5169.840	5210.100	---	PASS
	Ant2	5190	40.440	5169.720	5210.160	---	PASS
	Ant1	5230	40.740	5209.660	5250.400	---	PASS
	Ant2	5230	40.200	5209.900	5250.100	---	PASS
	Ant1	5270	40.740	5249.780	5290.520	---	PASS
	Ant2	5270	40.500	5249.720	5290.220	---	PASS
	Ant1	5310	40.440	5289.780	5330.220	---	PASS
	Ant2	5310	40.140	5289.840	5329.980	---	PASS
	Ant1	5510	40.440	5489.780	5530.220	---	PASS
	Ant2	5510	40.200	5489.780	5529.980	---	PASS
	Ant1	5550	40.620	5529.600	5570.220	---	PASS
	Ant2	5550	40.320	5529.720	5570.040	---	PASS



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	Ant1	5670	40.560	5649.660	5690.220	---	PASS
	Ant2	5670	39.960	5649.780	5689.740	---	PASS
	Ant1	5755	51.780	5733.220	5785.000	---	PASS
	Ant2	5755	43.380	5734.840	5778.220	---	PASS
	Ant1	5795	56.820	5768.180	5825.000	---	PASS
	Ant2	5795	43.620	5774.600	5818.220	---	PASS
11AC80MIMO	Ant1	5210	83.040	5168.600	5251.640	---	PASS
	Ant2	5210	82.680	5168.600	5251.280	---	PASS
	Ant1	5290	82.440	5248.720	5331.160	---	PASS
	Ant2	5290	81.840	5249.080	5330.920	---	PASS
	Ant1	5530	82.440	5488.360	5570.800	---	PASS
	Ant2	5530	82.080	5488.960	5571.040	---	PASS
	Ant1	5610	82.680	5568.360	5651.040	---	PASS
	Ant2	5610	81.840	5569.080	5650.920	---	PASS
	Ant1	5775	82.560	5733.480	5816.040	---	PASS
	Ant2	5775	81.960	5733.960	5815.920	---	PASS



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TestMode	Antenna	Channel	26db BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5180	22.170	5168.870	5191.040	---	PASS
	Ant2	5180	22.260	5168.720	5190.980	---	PASS
	Ant1	5200	21.600	5189.080	5210.680	---	PASS
	Ant2	5200	22.800	5188.480	5211.280	---	PASS
	Ant1	5240	22.230	5228.870	5251.100	---	PASS
	Ant2	5240	22.320	5228.690	5251.010	---	PASS
	Ant1	5260	22.200	5248.930	5271.130	---	PASS
	Ant2	5260	22.560	5248.630	5271.190	---	PASS
	Ant1	5300	21.600	5289.380	5310.980	---	PASS
	Ant2	5300	23.190	5288.780	5311.970	---	PASS
	Ant1	5320	22.440	5309.110	5331.550	---	PASS
	Ant2	5320	23.700	5308.600	5332.300	---	PASS
	Ant1	5500	21.600	5489.050	5510.650	---	PASS
	Ant2	5500	22.470	5488.600	5511.070	---	PASS
	Ant1	5580	22.110	5568.930	5591.040	---	PASS
	Ant2	5580	21.930	5569.230	5591.160	---	PASS
	Ant1	5700	23.070	5689.020	5712.090	---	PASS
	Ant2	5700	21.750	5689.290	5711.040	---	PASS
	Ant1	5745	25.380	5733.870	5759.250	---	PASS
	Ant2	5745	24.870	5734.230	5759.100	---	PASS
Ant1	5785	27.450	5772.370	5799.820	---	PASS	
Ant2	5785	25.500	5773.810	5799.310	---	PASS	
Ant1	5825	26.790	5812.310	5839.100	---	PASS	
Ant2	5825	28.050	5811.800	5839.850	---	PASS	
11AX40MIMO	Ant1	5190	40.740	5169.420	5210.160	---	PASS
	Ant2	5190	40.740	5169.720	5210.460	---	PASS
	Ant1	5230	40.980	5209.660	5250.640	---	PASS
	Ant2	5230	41.160	5209.360	5250.520	---	PASS
	Ant1	5270	40.740	5249.660	5290.400	---	PASS
	Ant2	5270	40.800	5249.720	5290.520	---	PASS
	Ant1	5310	40.860	5289.540	5330.400	---	PASS
	Ant2	5310	40.680	5289.660	5330.340	---	PASS
	Ant1	5510	40.500	5489.780	5530.280	---	PASS
	Ant2	5510	40.500	5489.720	5530.220	---	PASS



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	Ant1	5550	40.620	5529.600	5570.220	---	PASS
	Ant2	5550	40.920	5529.480	5570.400	---	PASS
	Ant1	5670	40.560	5649.540	5690.100	---	PASS
	Ant2	5670	40.920	5649.540	5690.460	---	PASS
	Ant1	5755	41.040	5734.540	5775.580	---	PASS
	Ant2	5755	41.220	5734.360	5775.580	---	PASS
	Ant1	5795	41.160	5774.480	5815.640	---	PASS
	Ant2	5795	44.640	5774.360	5819.000	---	PASS
11AX80MIMO	Ant1	5210	82.800	5168.240	5251.040	---	PASS
	Ant2	5210	81.960	5168.960	5250.920	---	PASS
	Ant1	5290	82.440	5248.720	5331.160	---	PASS
	Ant2	5290	82.440	5248.960	5331.400	---	PASS
	Ant1	5530	82.200	5488.720	5570.920	---	PASS
	Ant2	5530	82.200	5488.960	5571.160	---	PASS
	Ant1	5610	82.440	5568.480	5650.920	---	PASS
	Ant2	5610	82.080	5568.960	5651.040	---	PASS
	Ant1	5775	82.320	5733.600	5815.920	---	PASS
	Ant2	5775	82.440	5733.720	5816.160	---	PASS

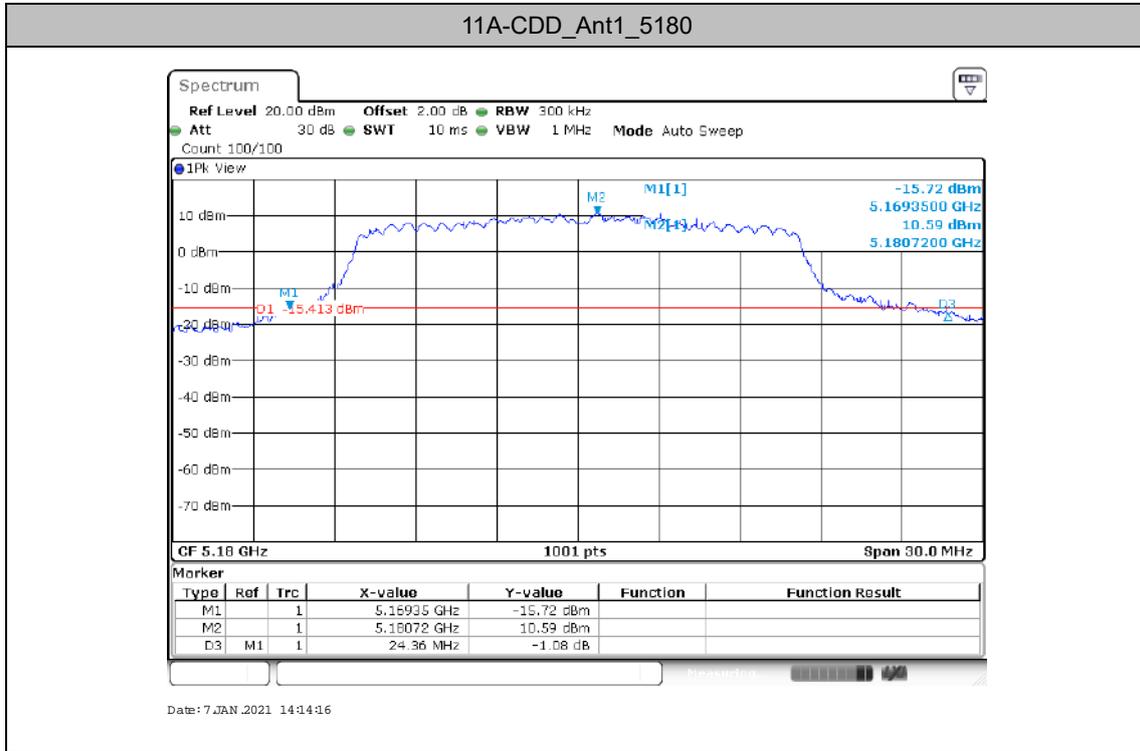


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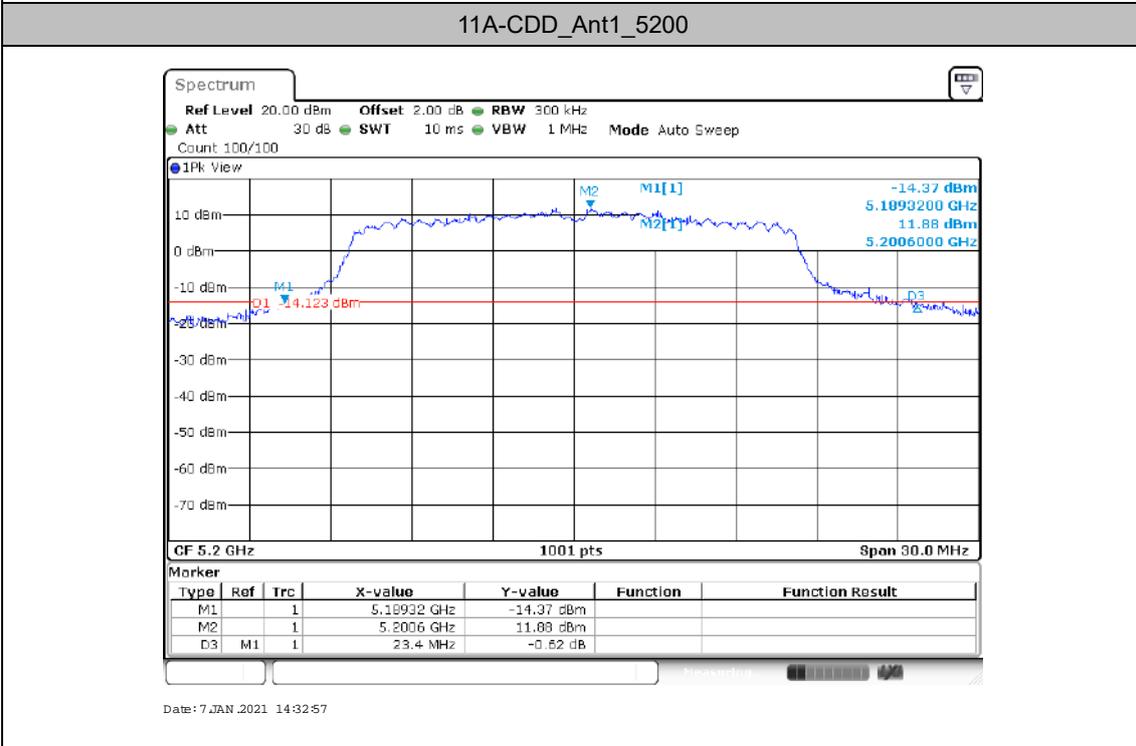
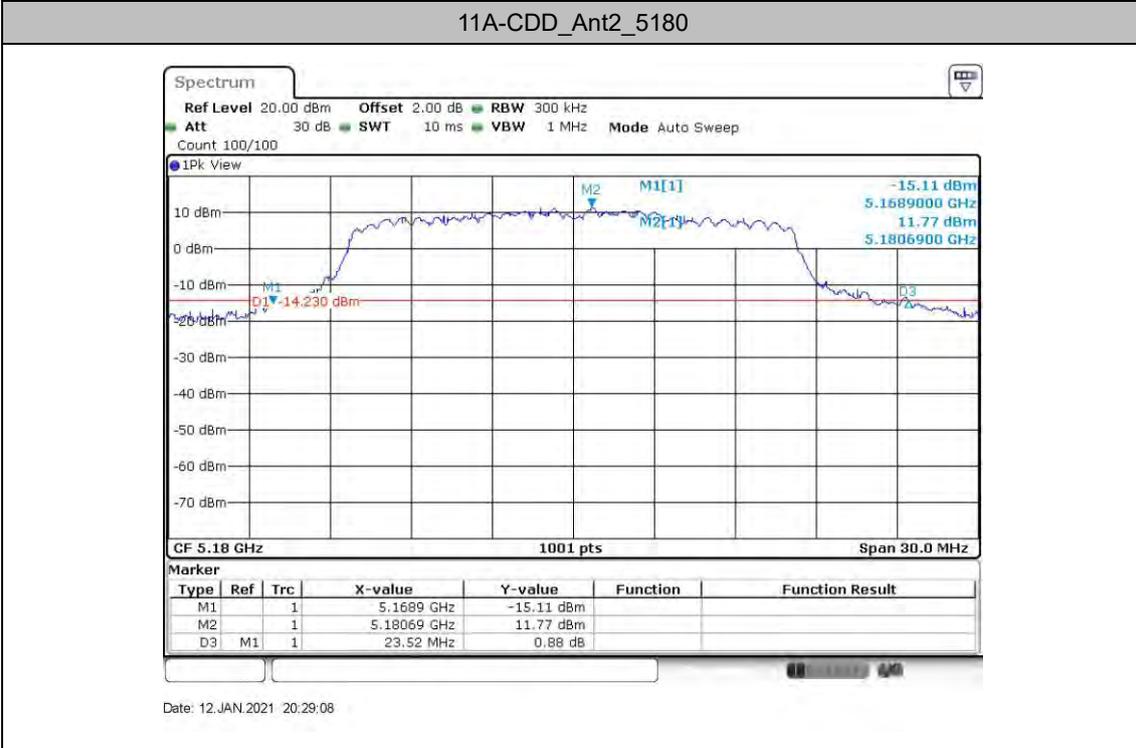
**Test Graphs**



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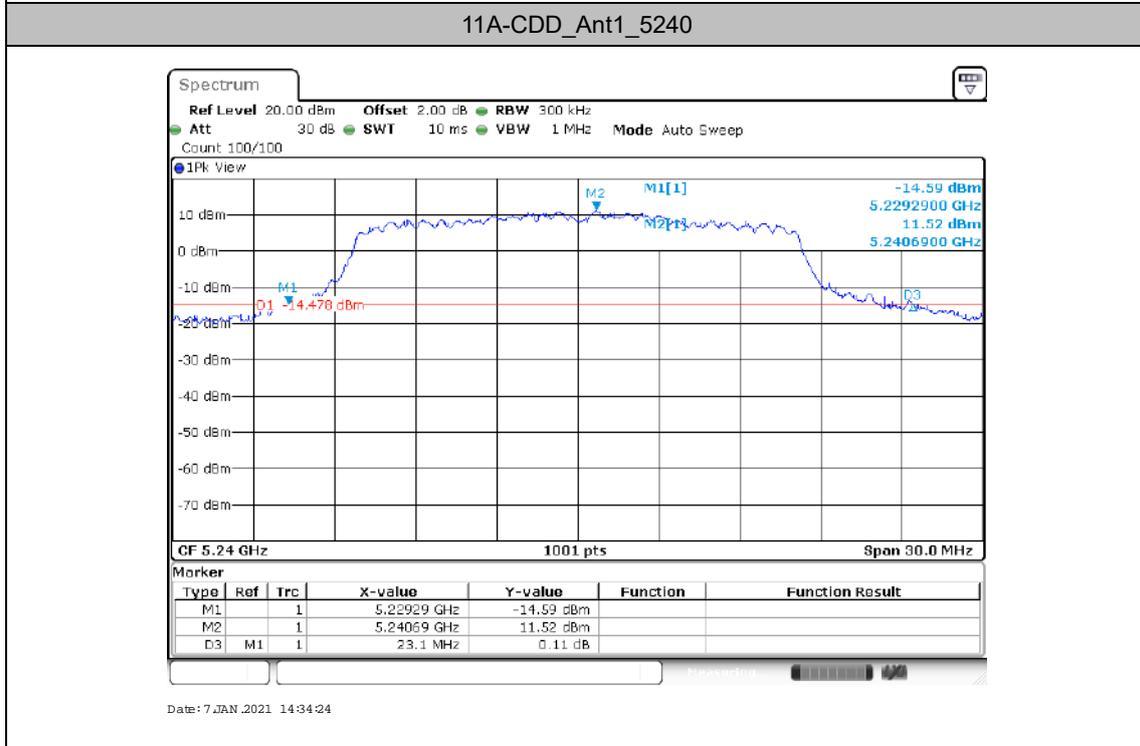
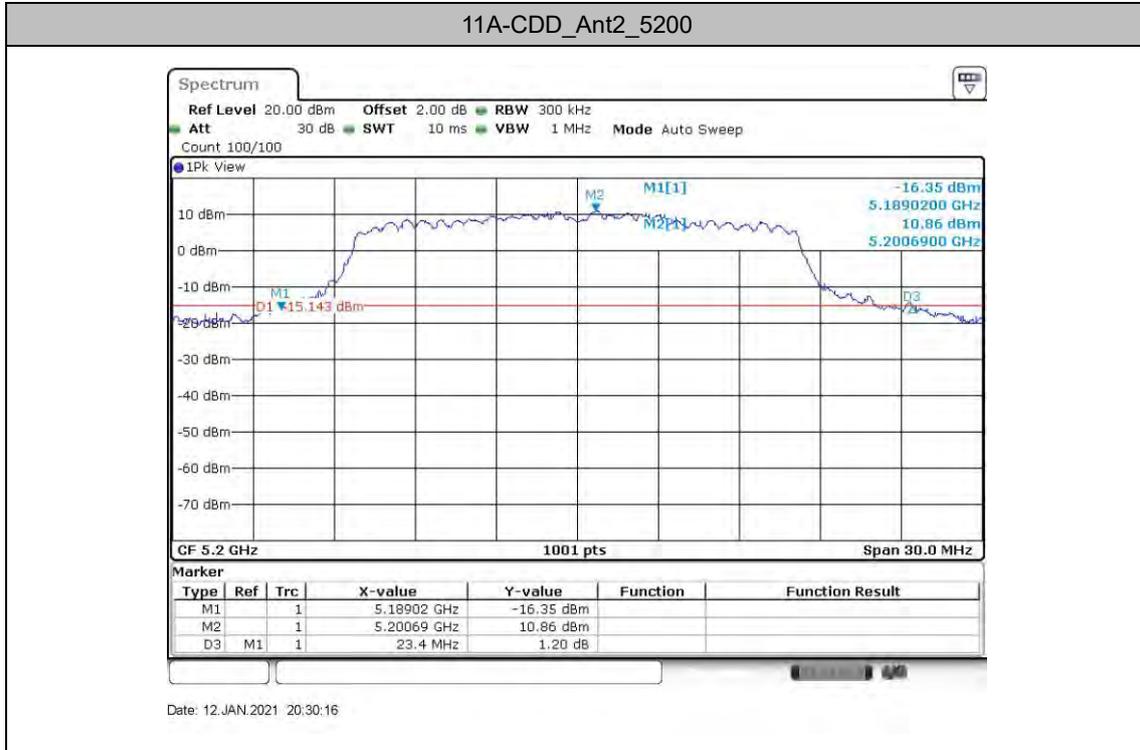


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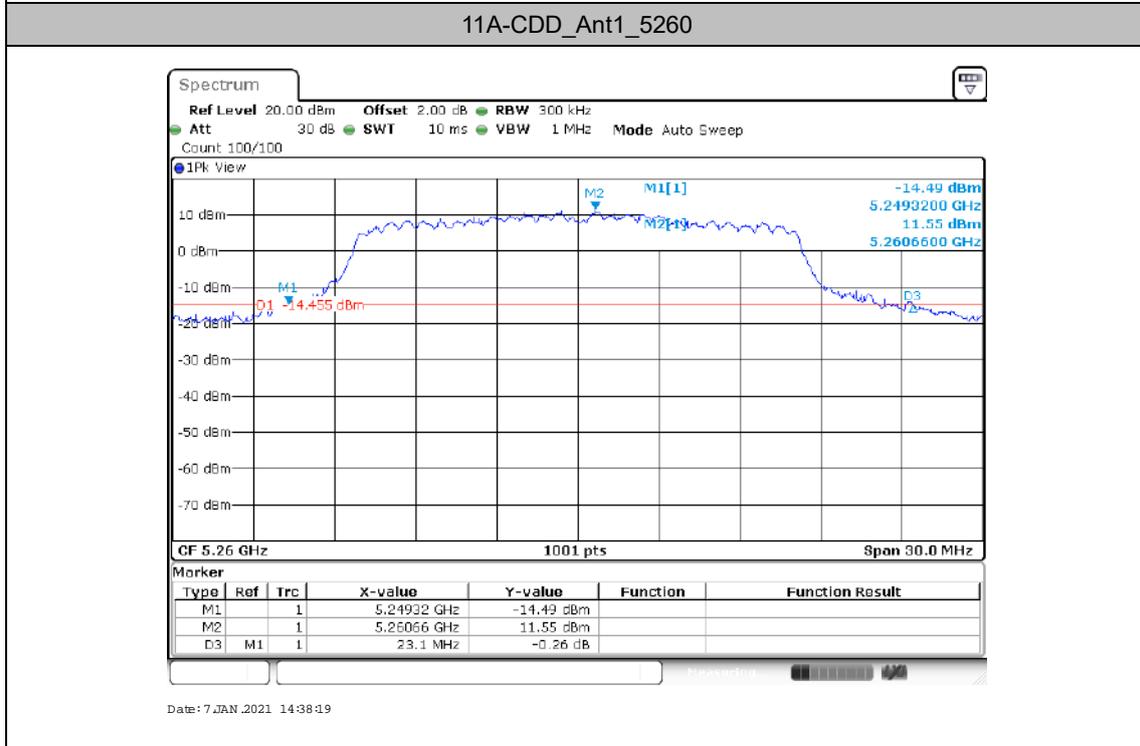
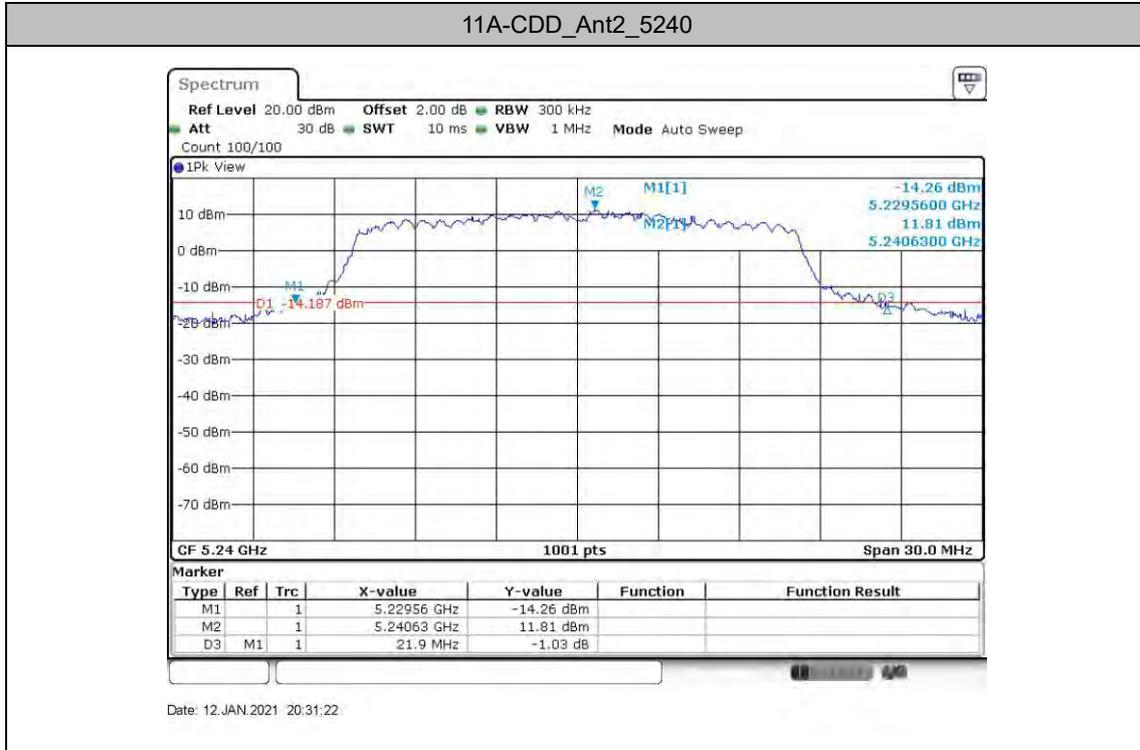


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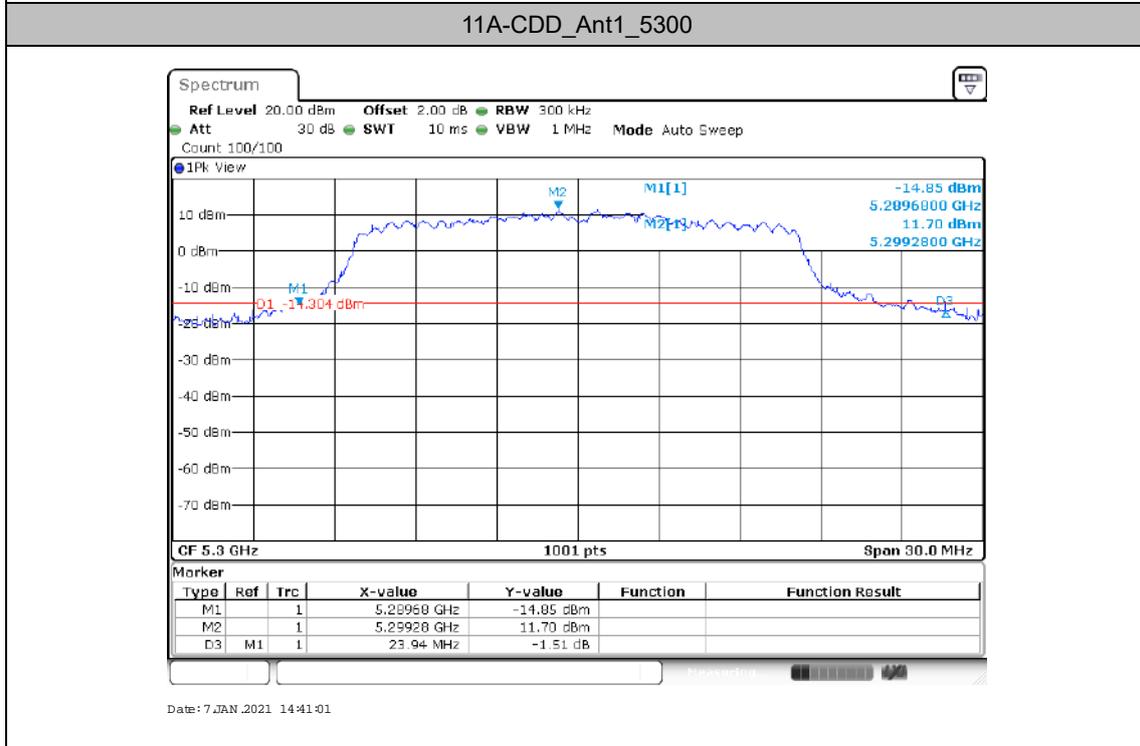
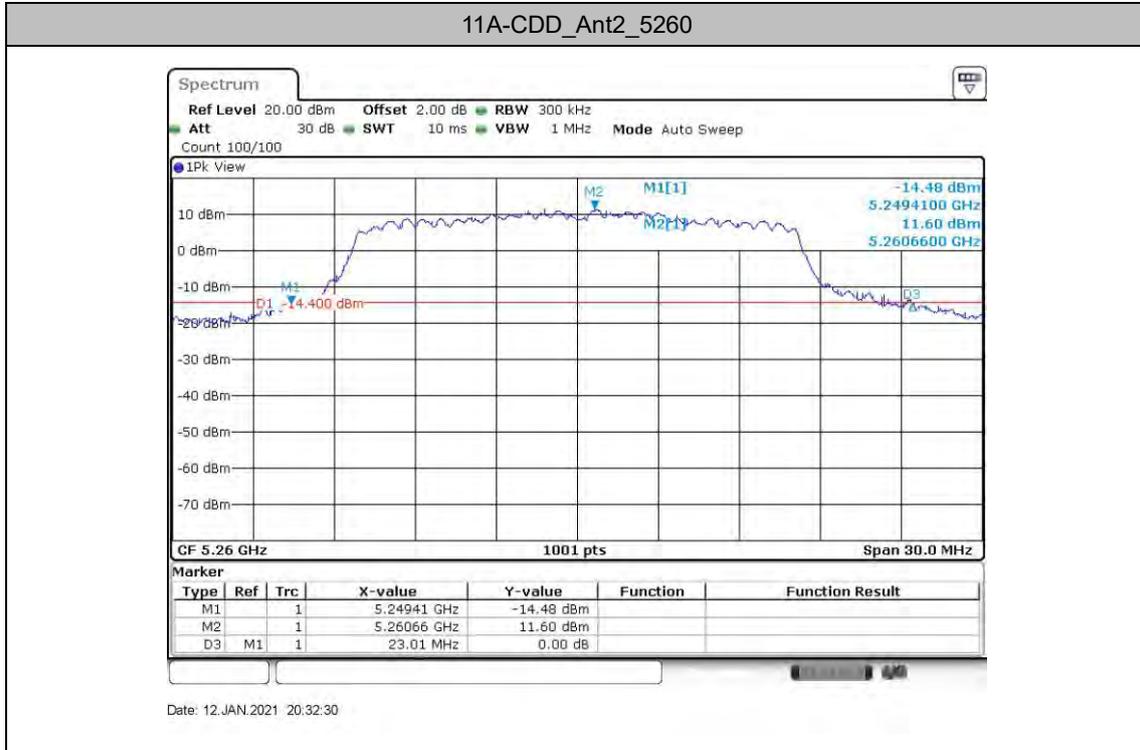


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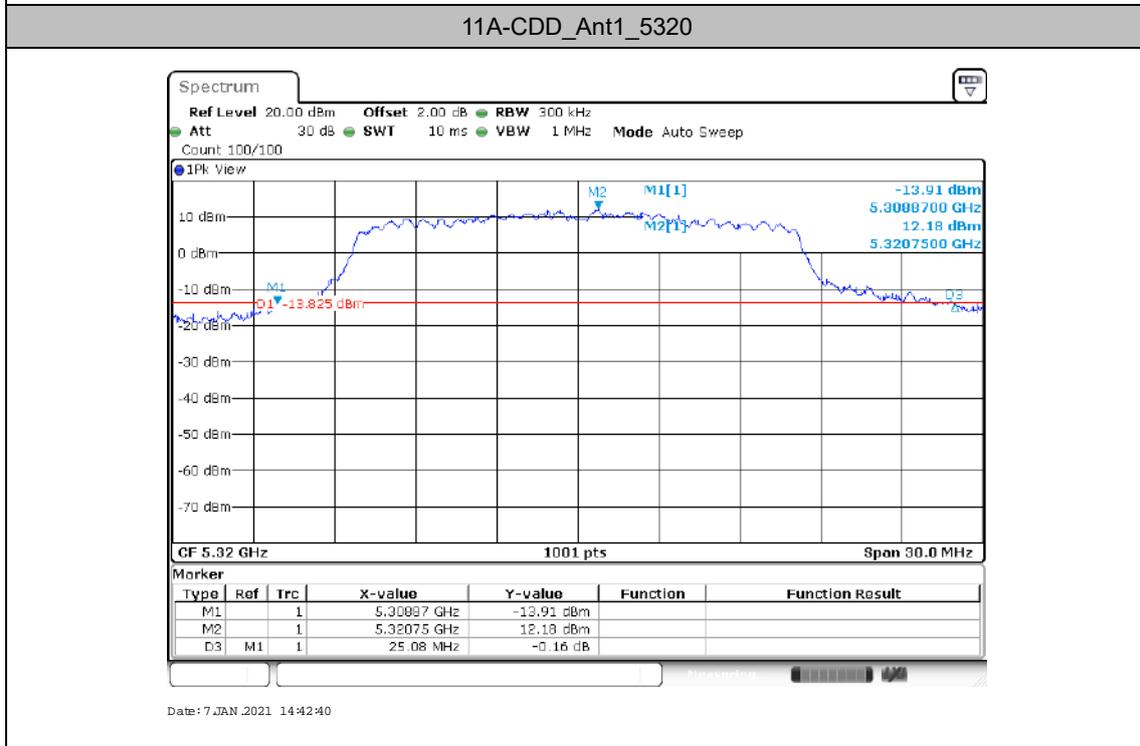
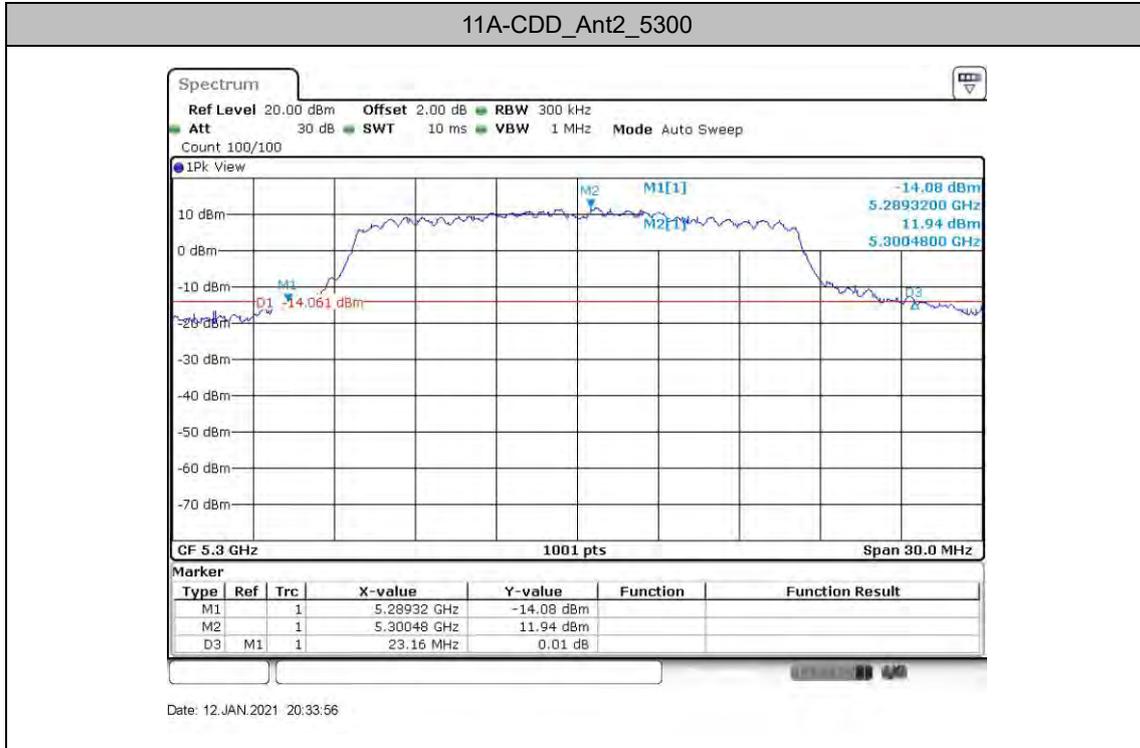


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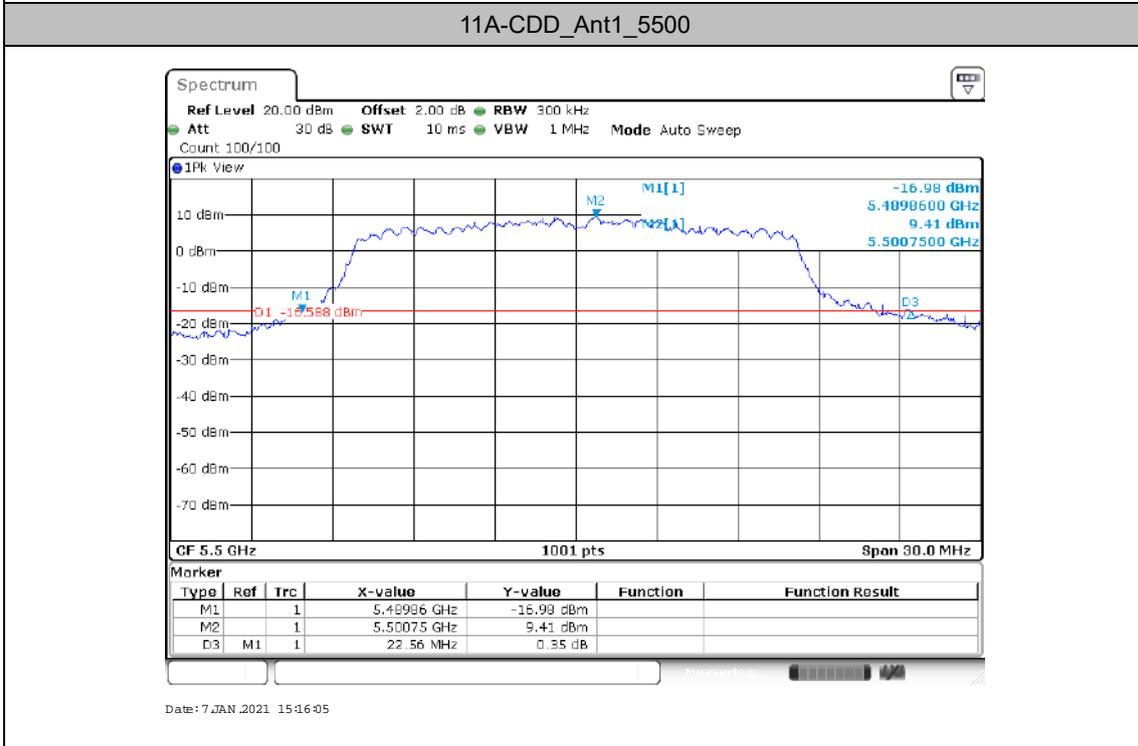
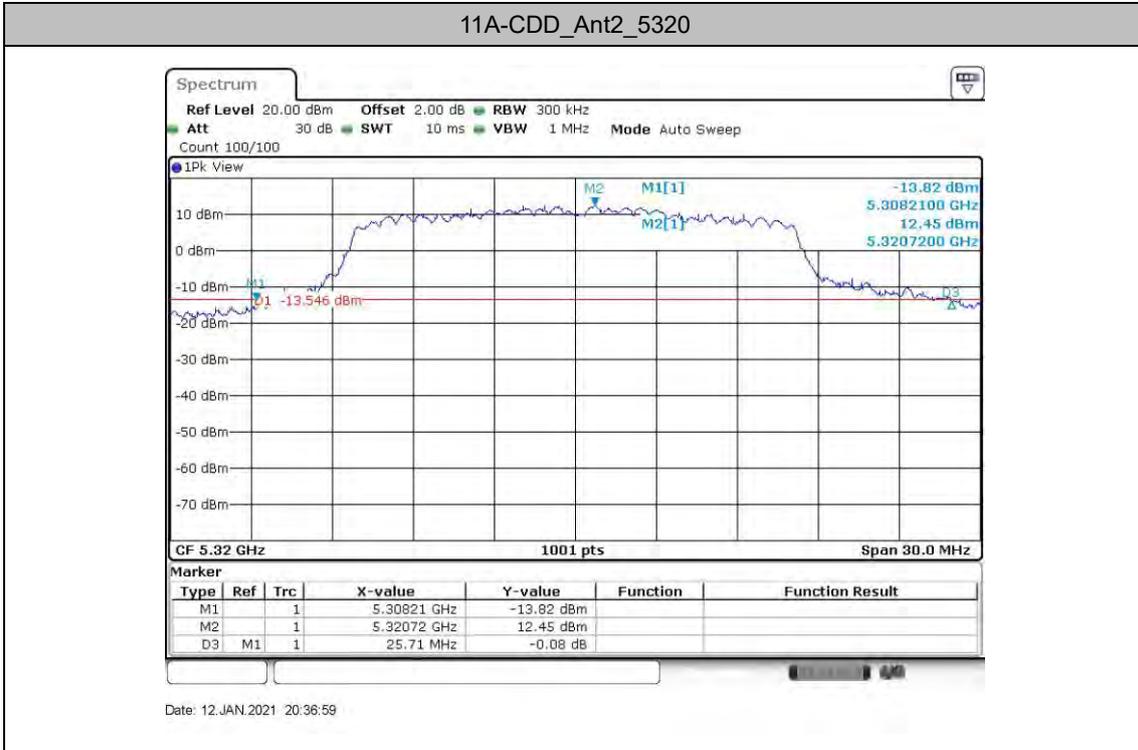


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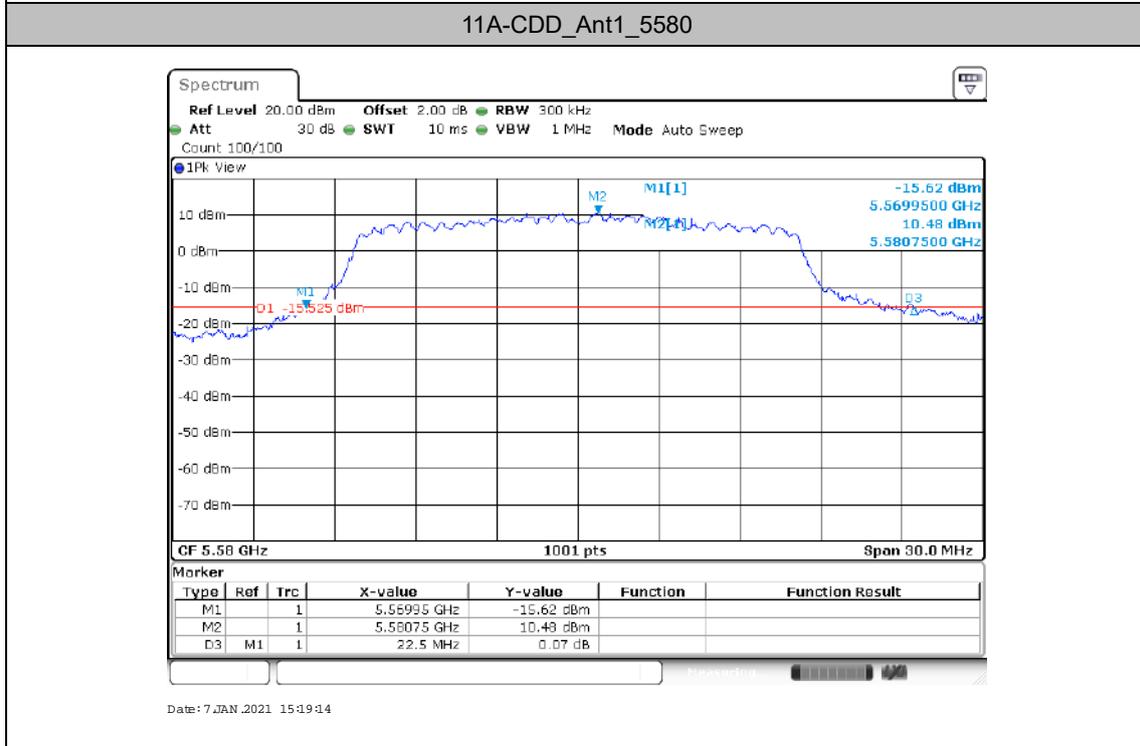
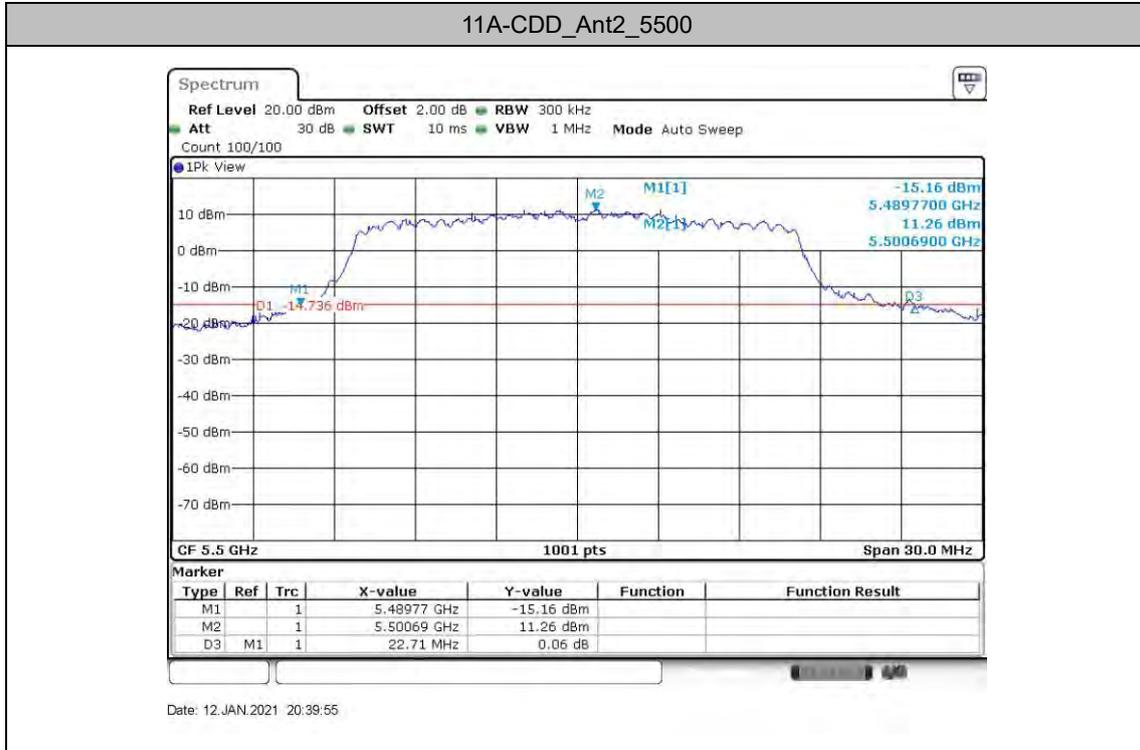


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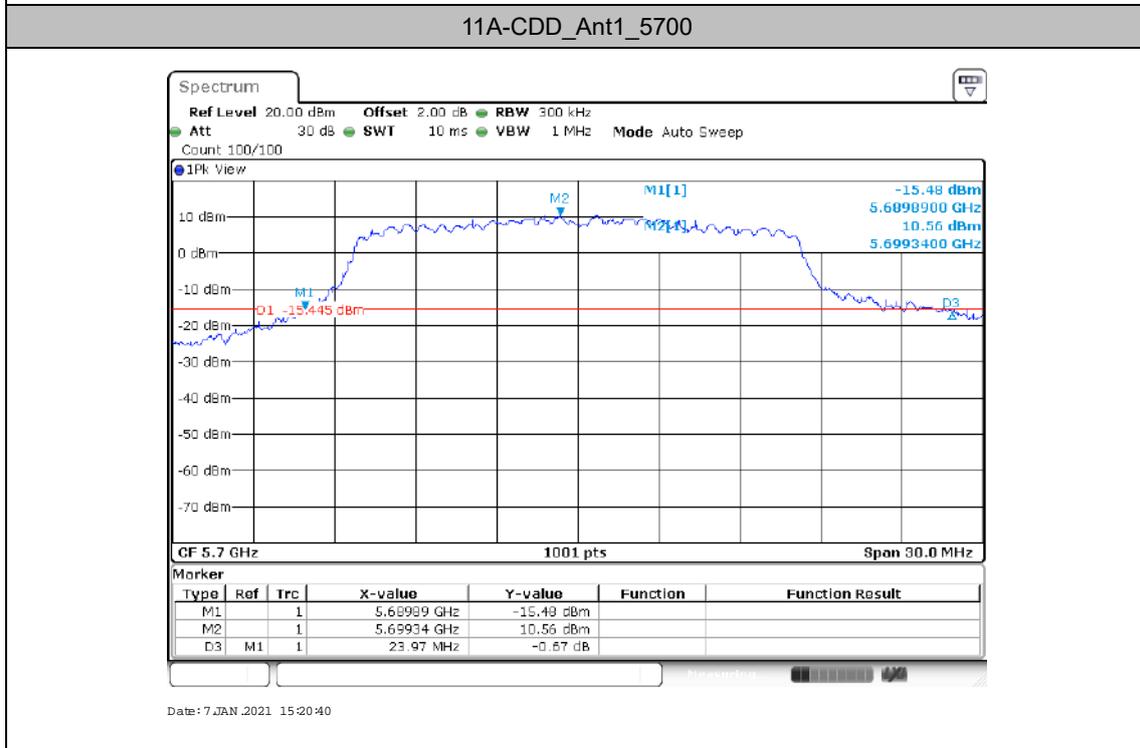
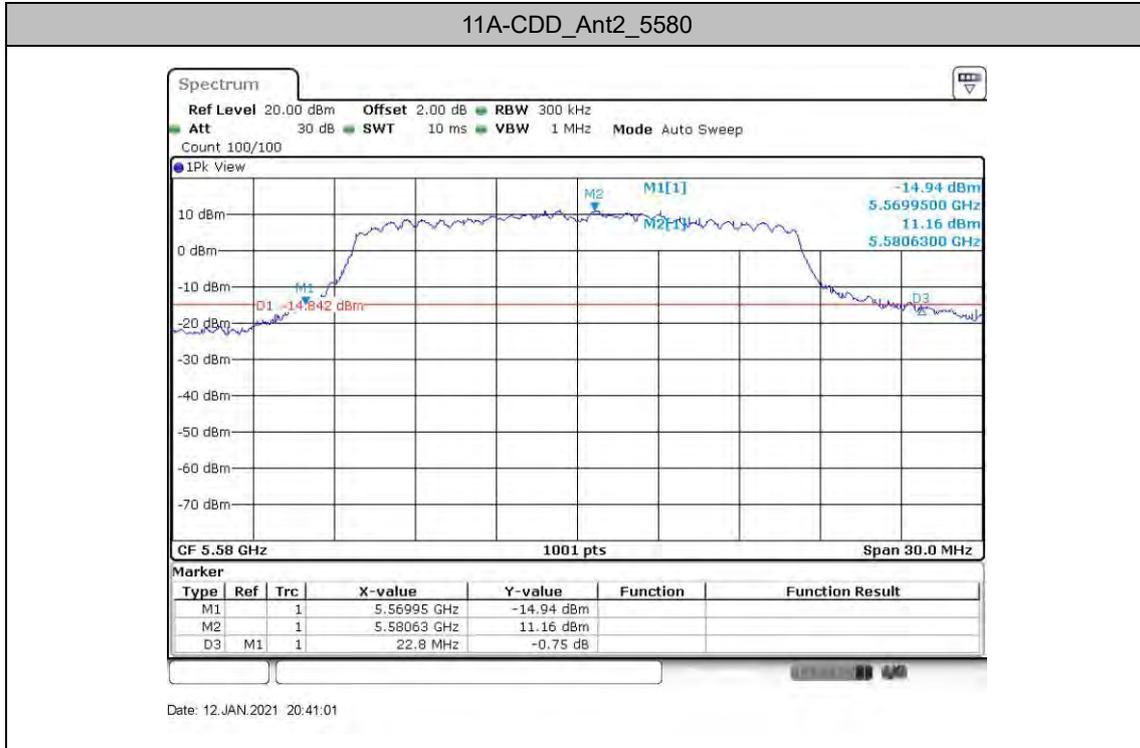


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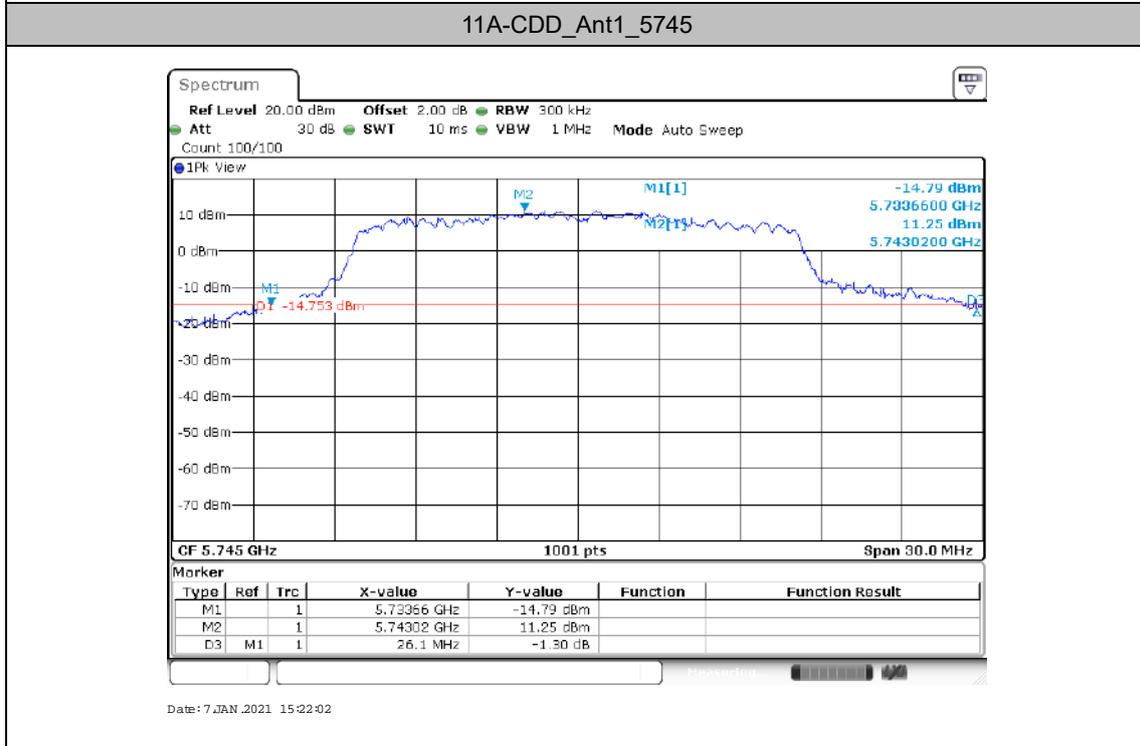
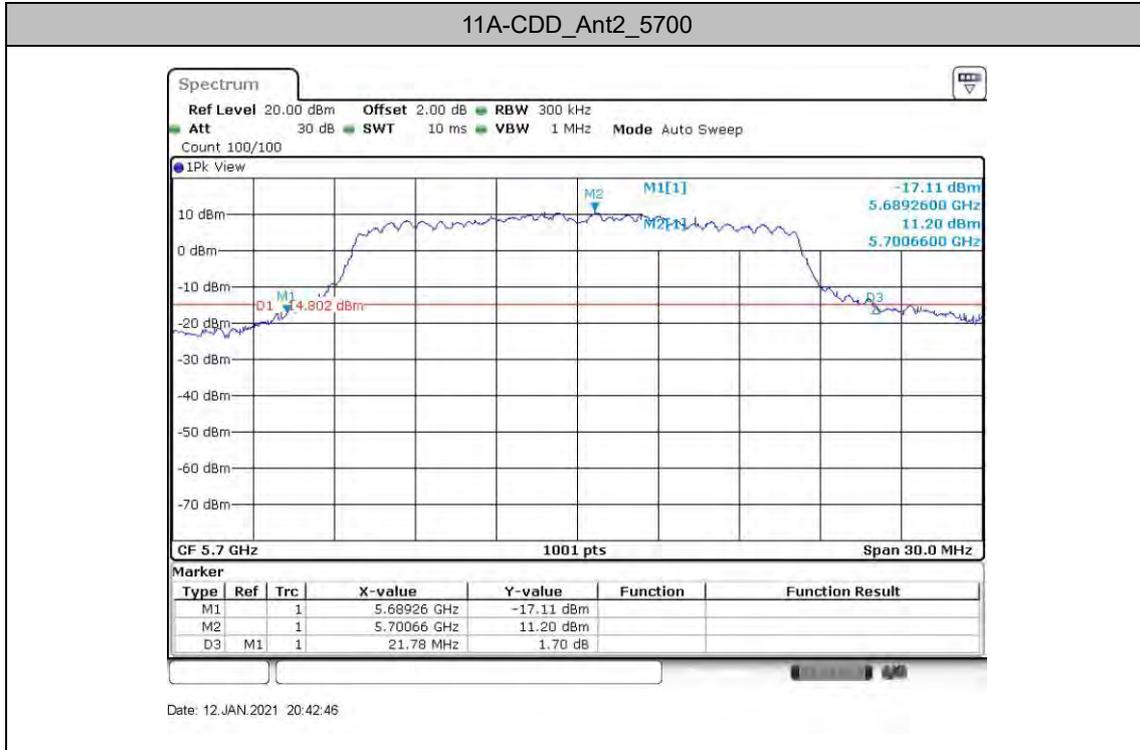


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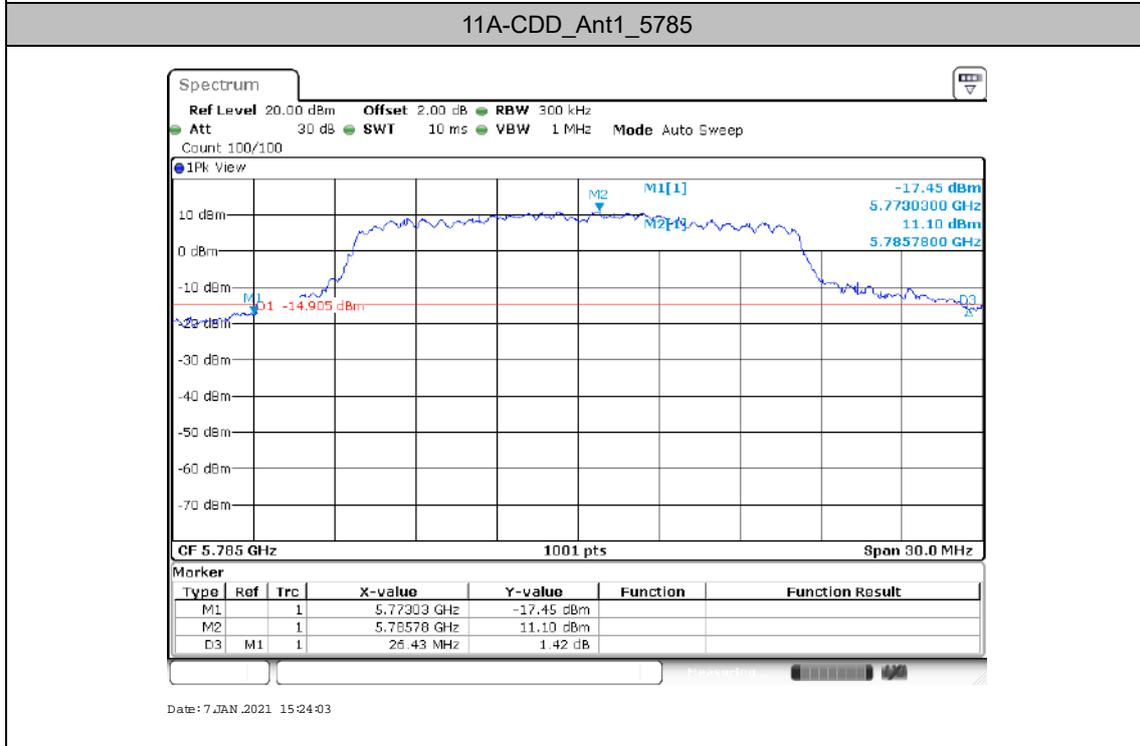
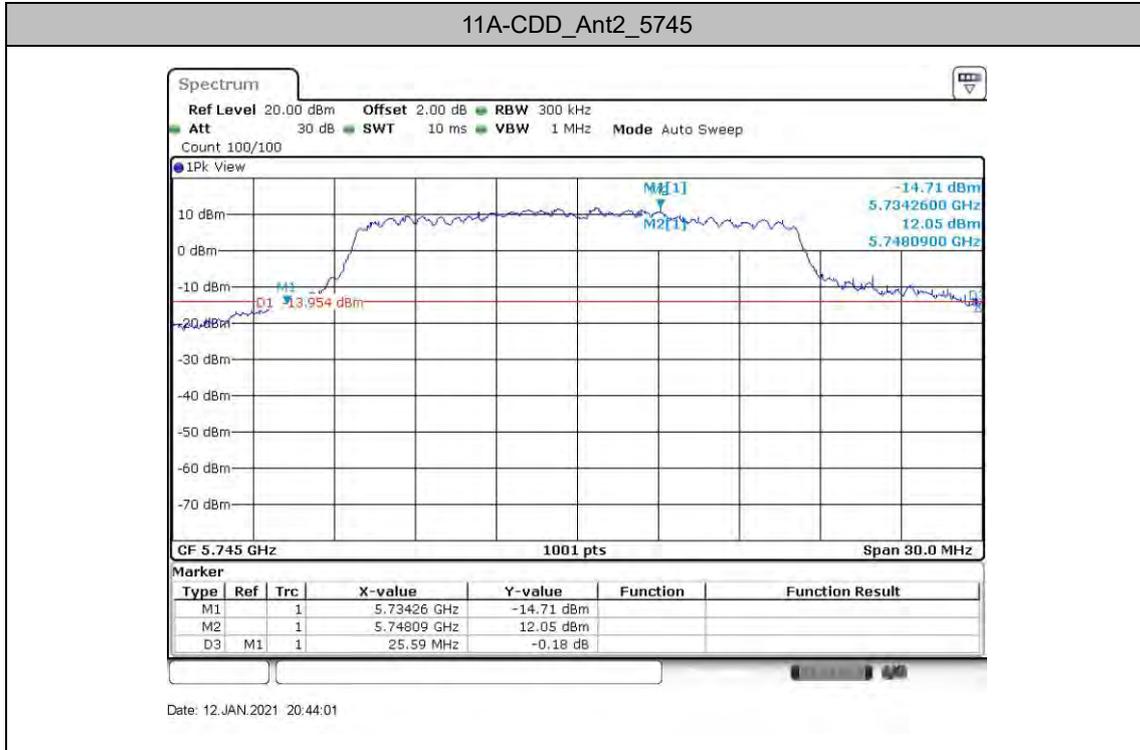
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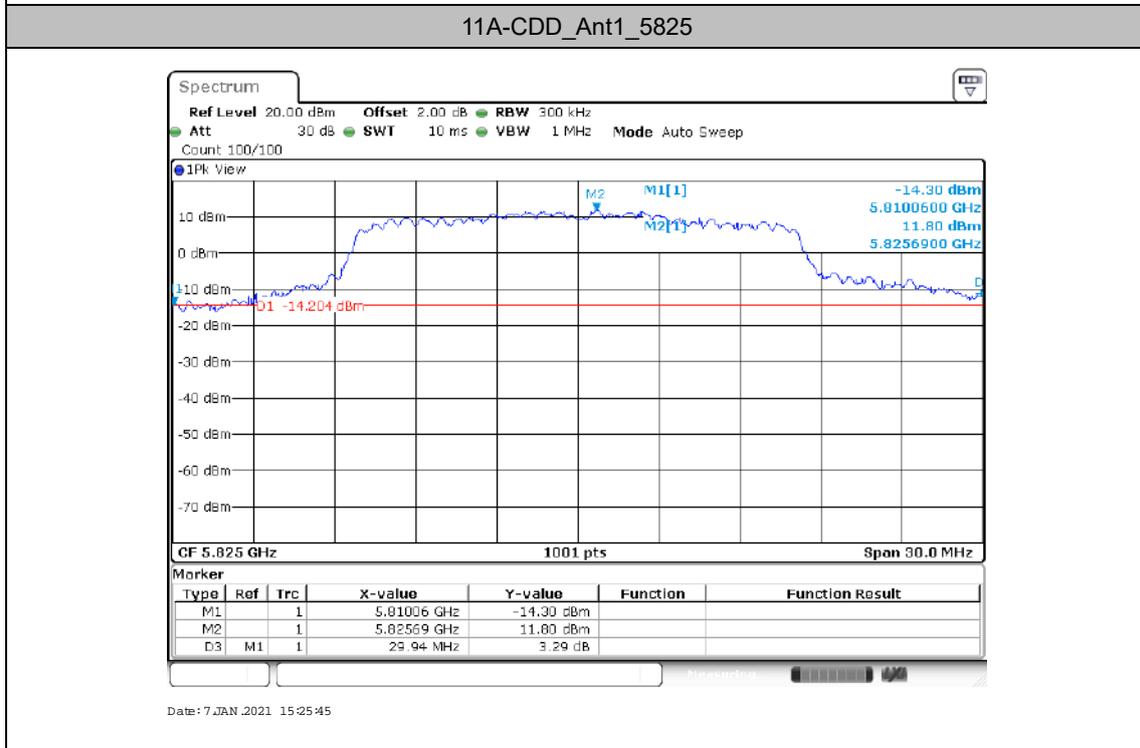
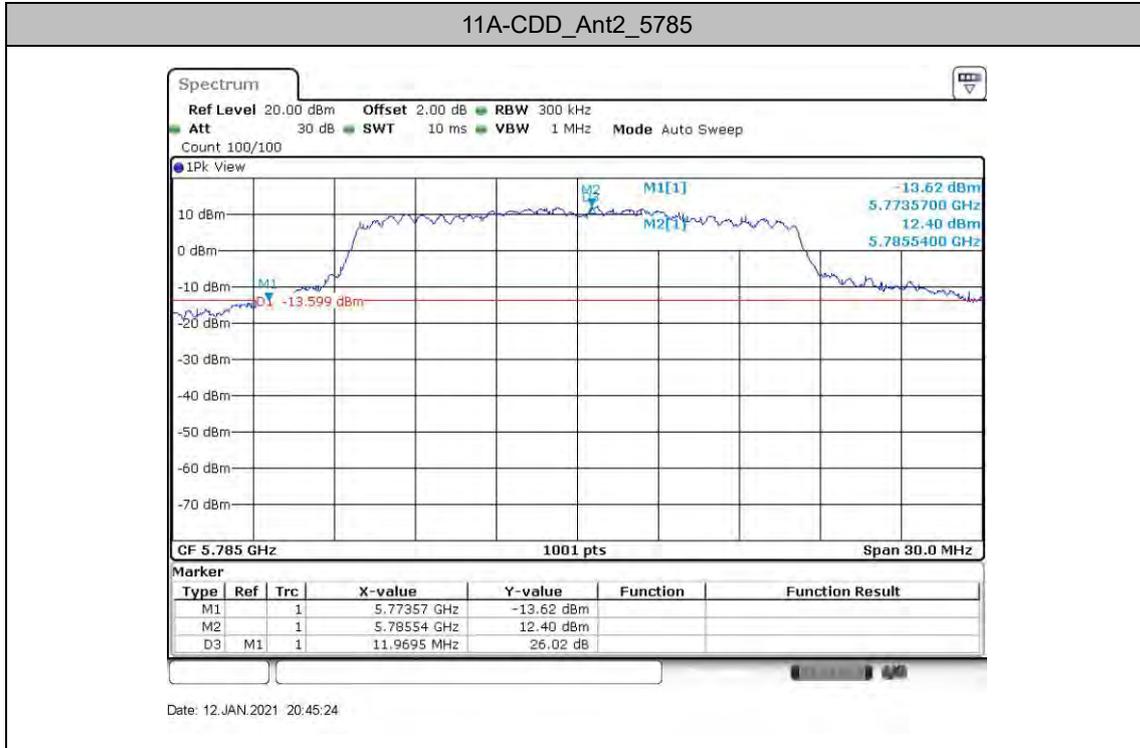
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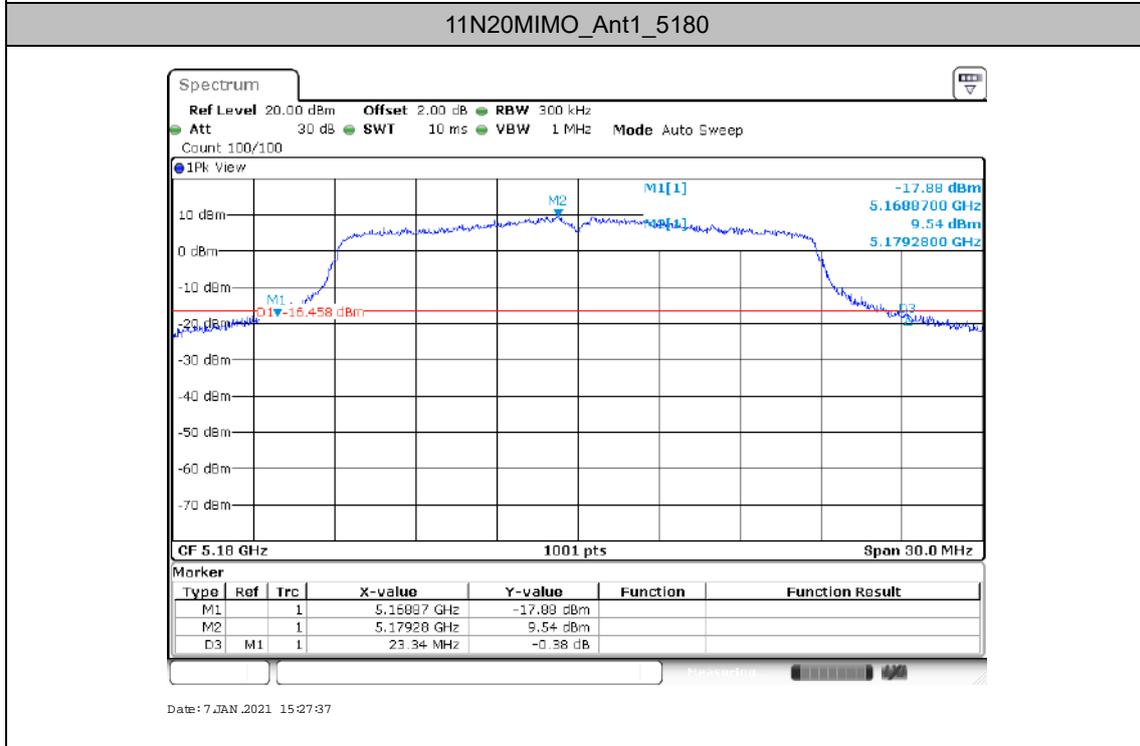
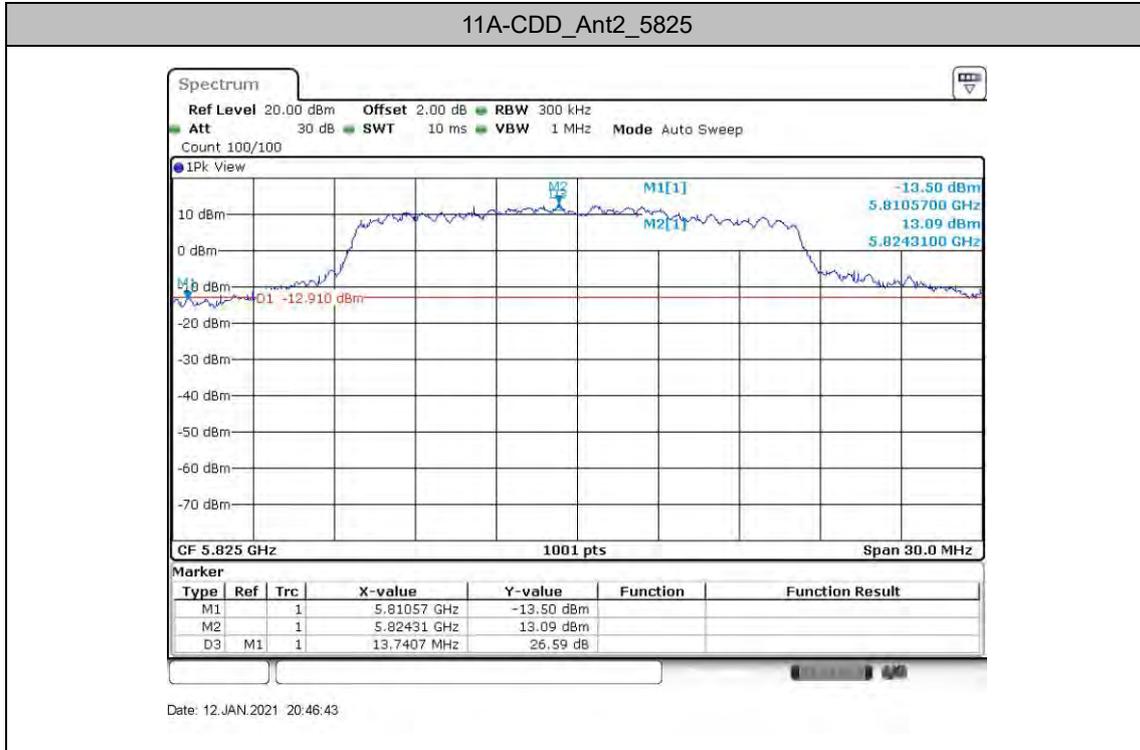


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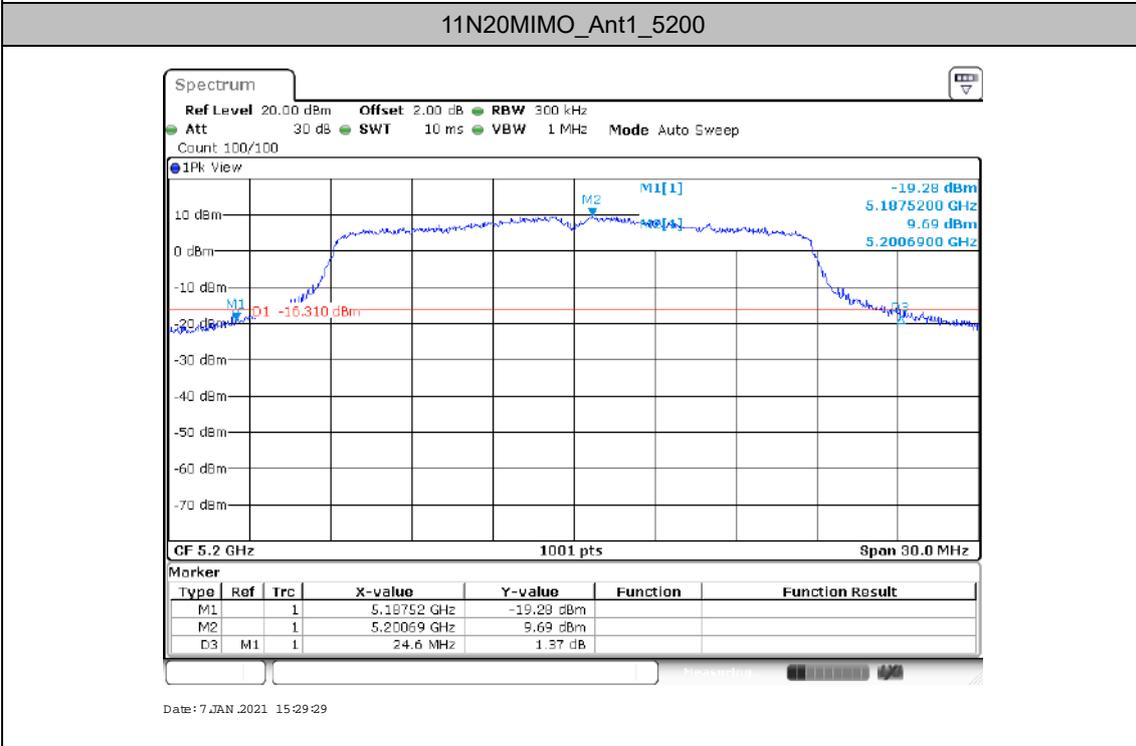
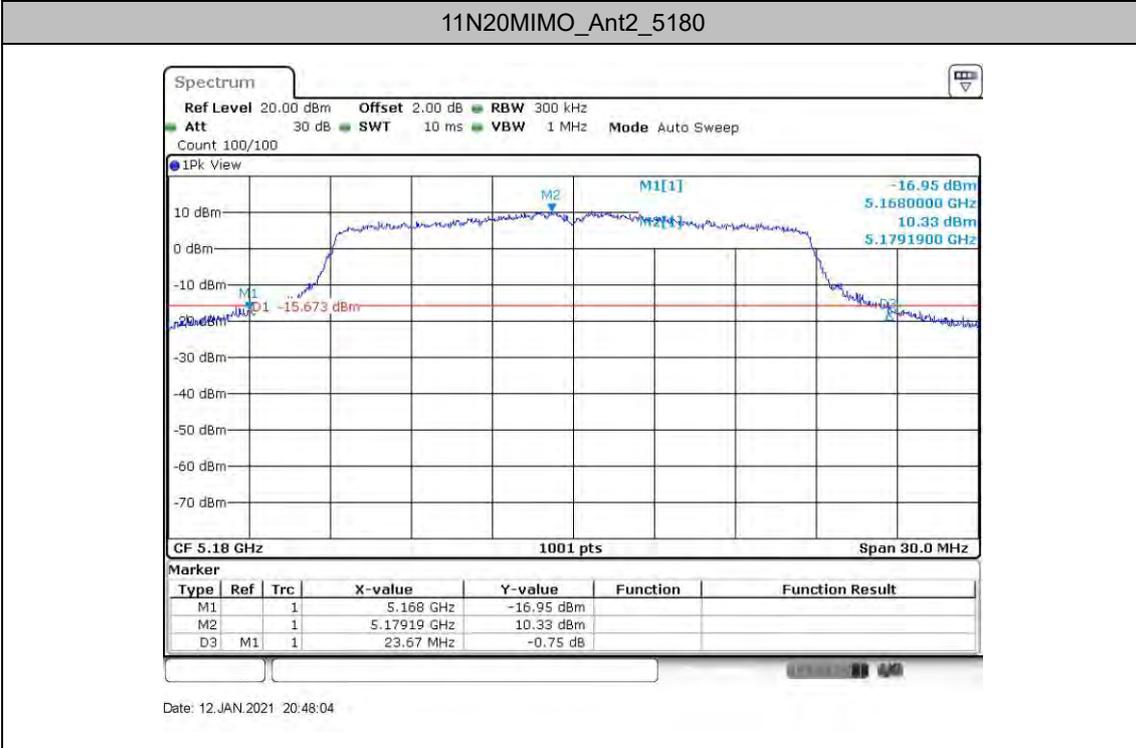
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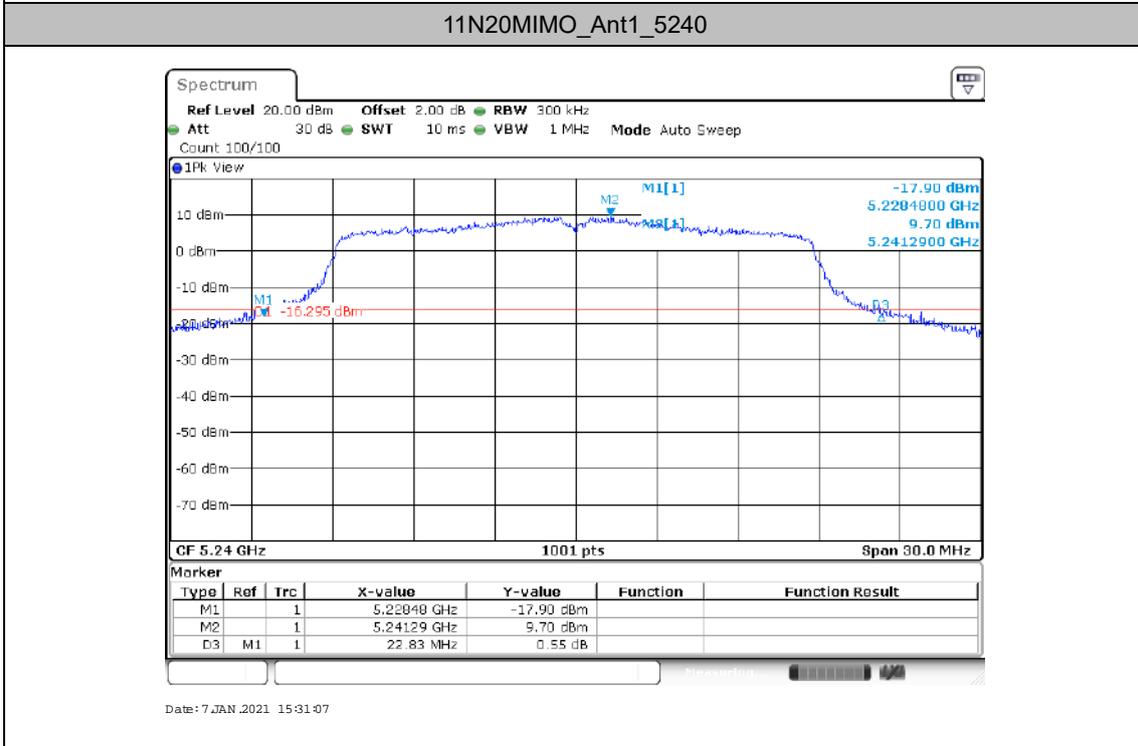
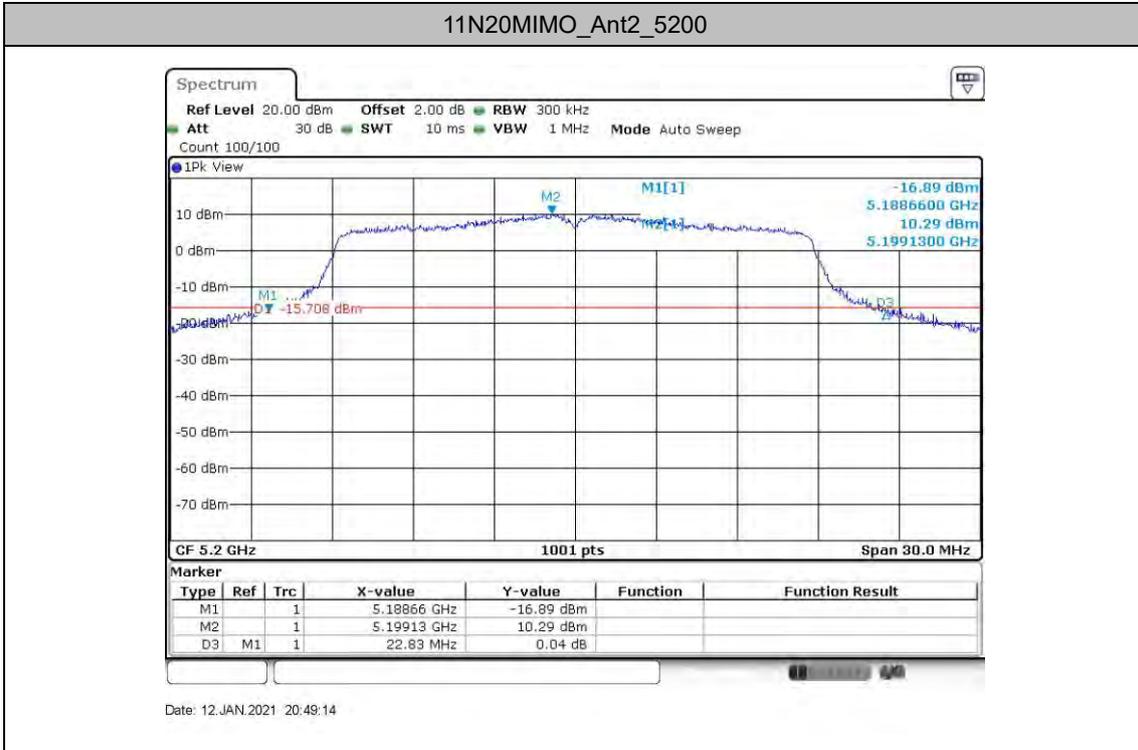


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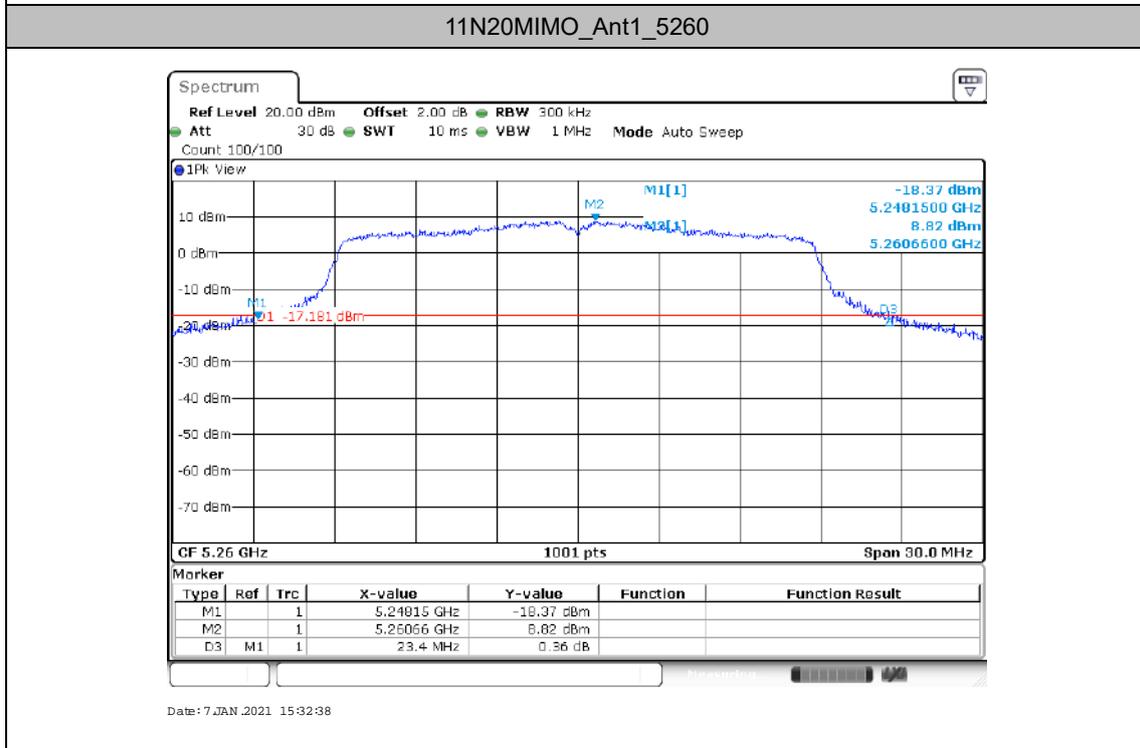
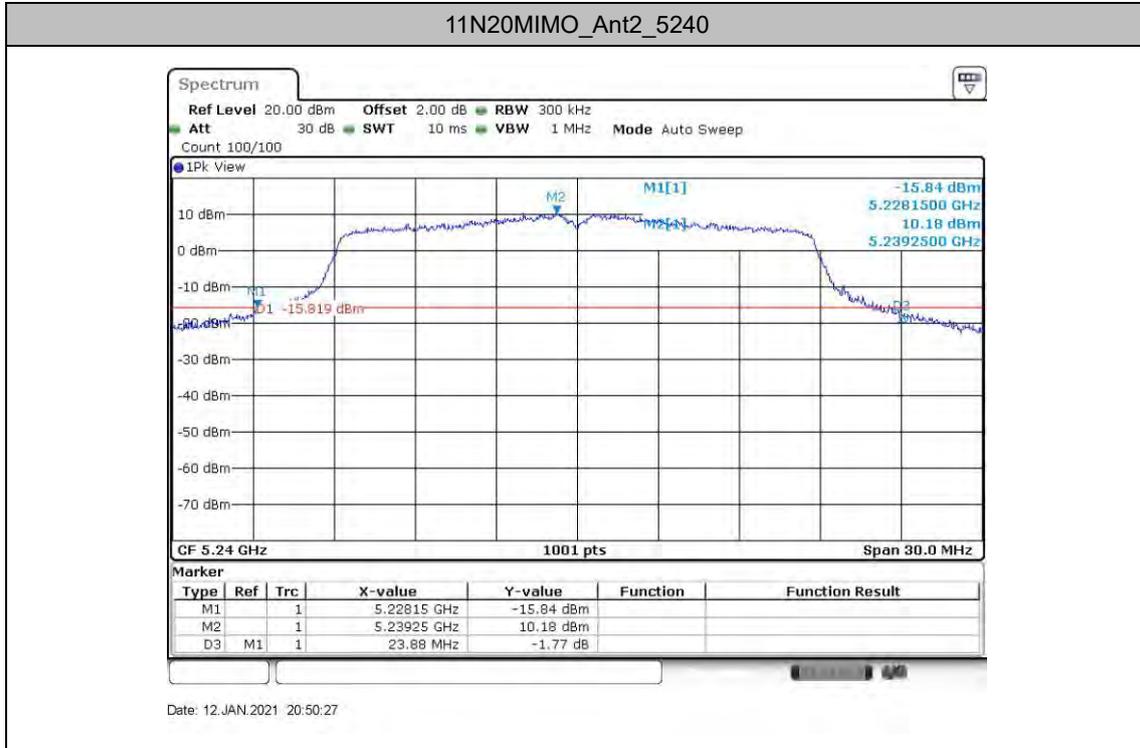


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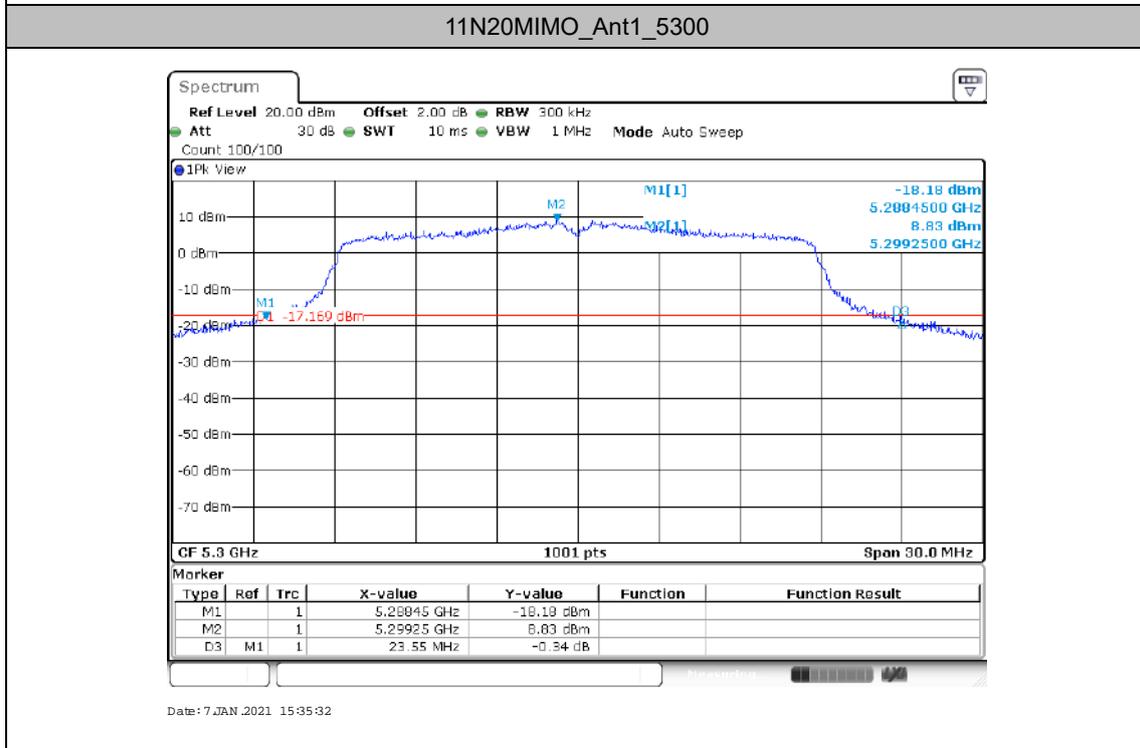
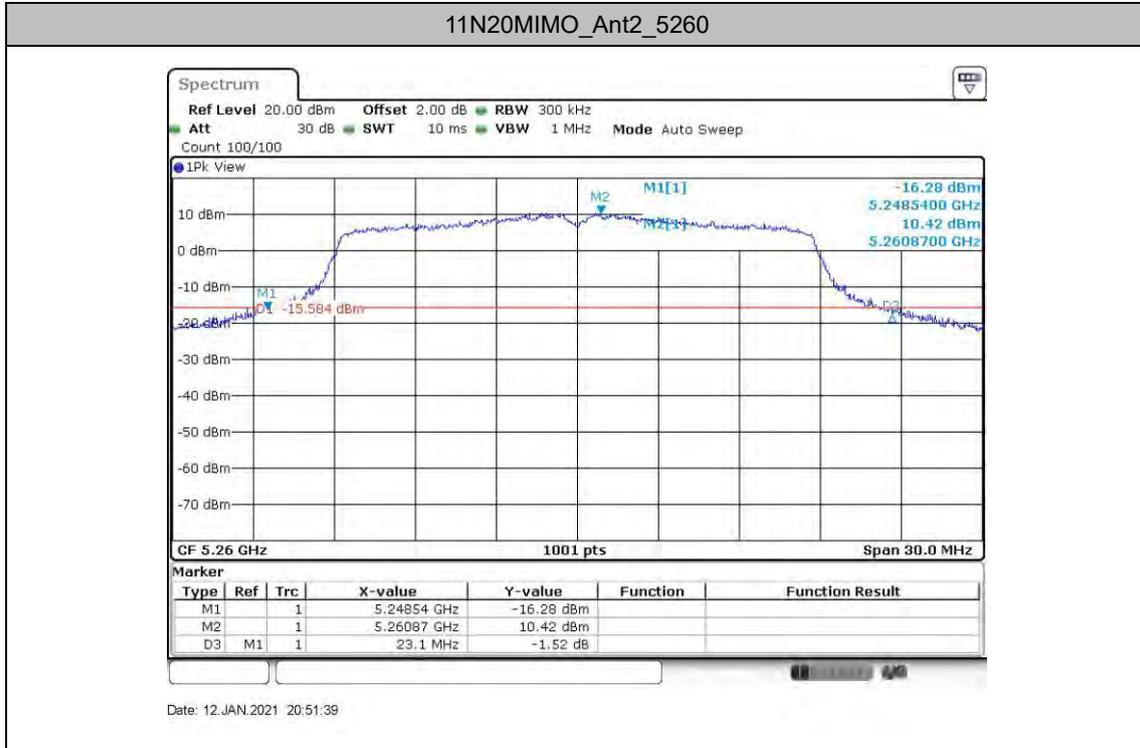
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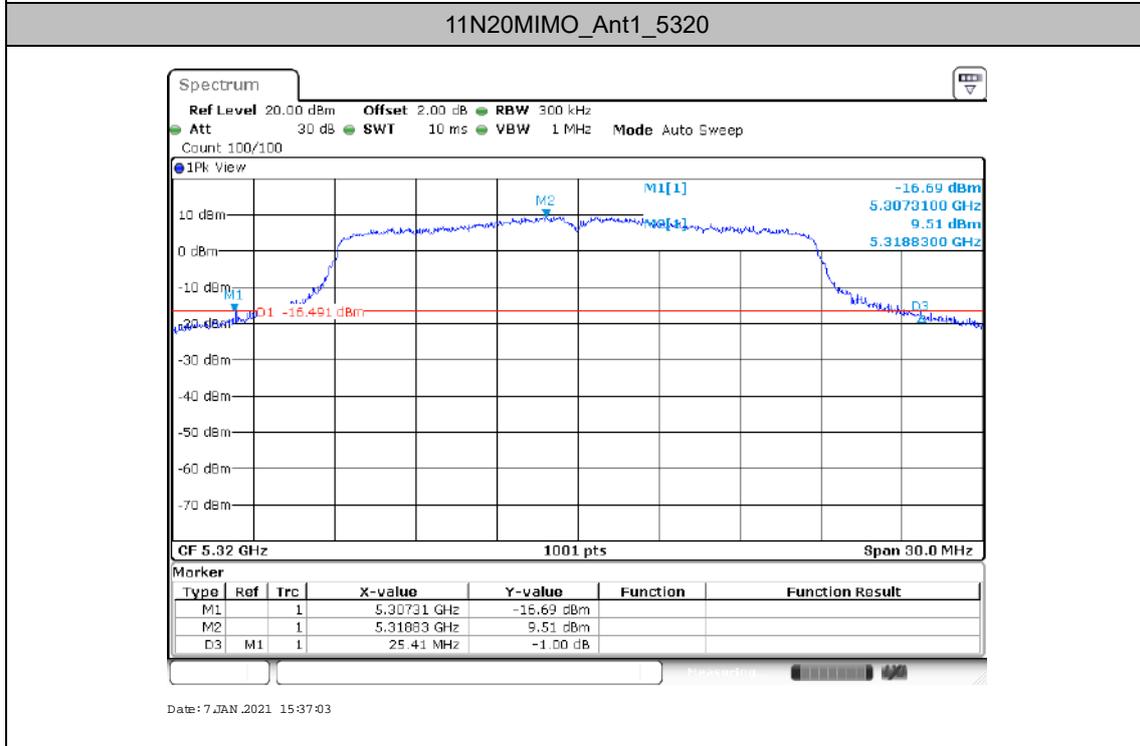
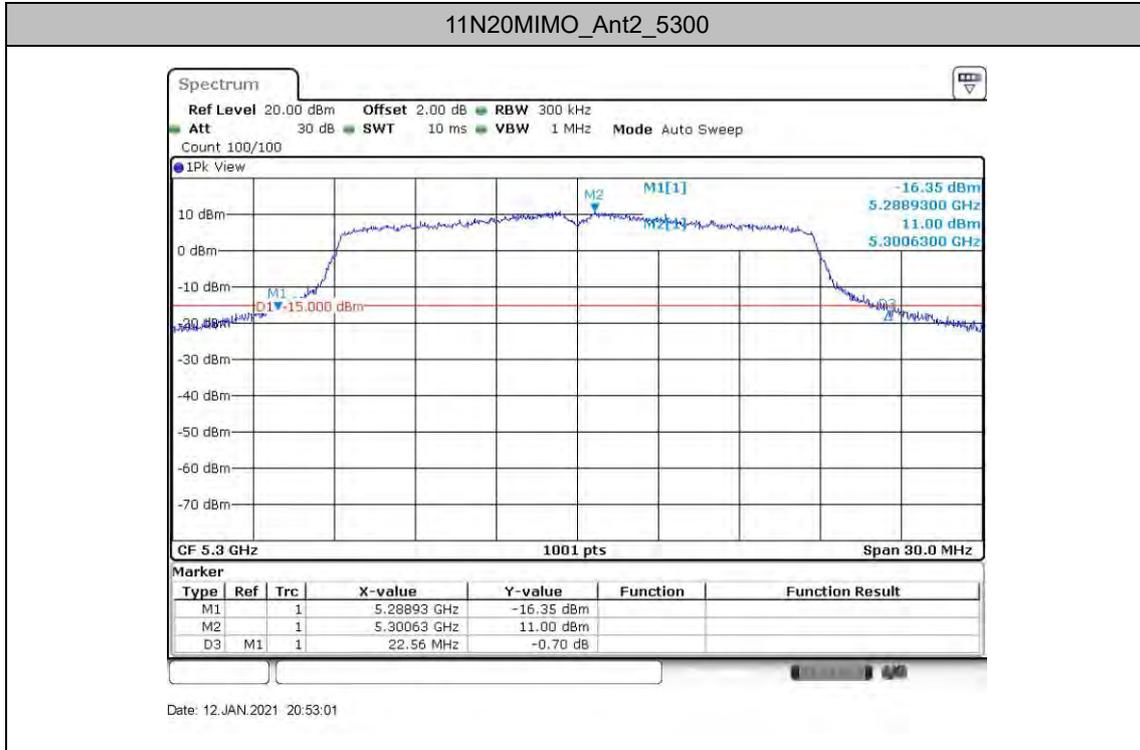


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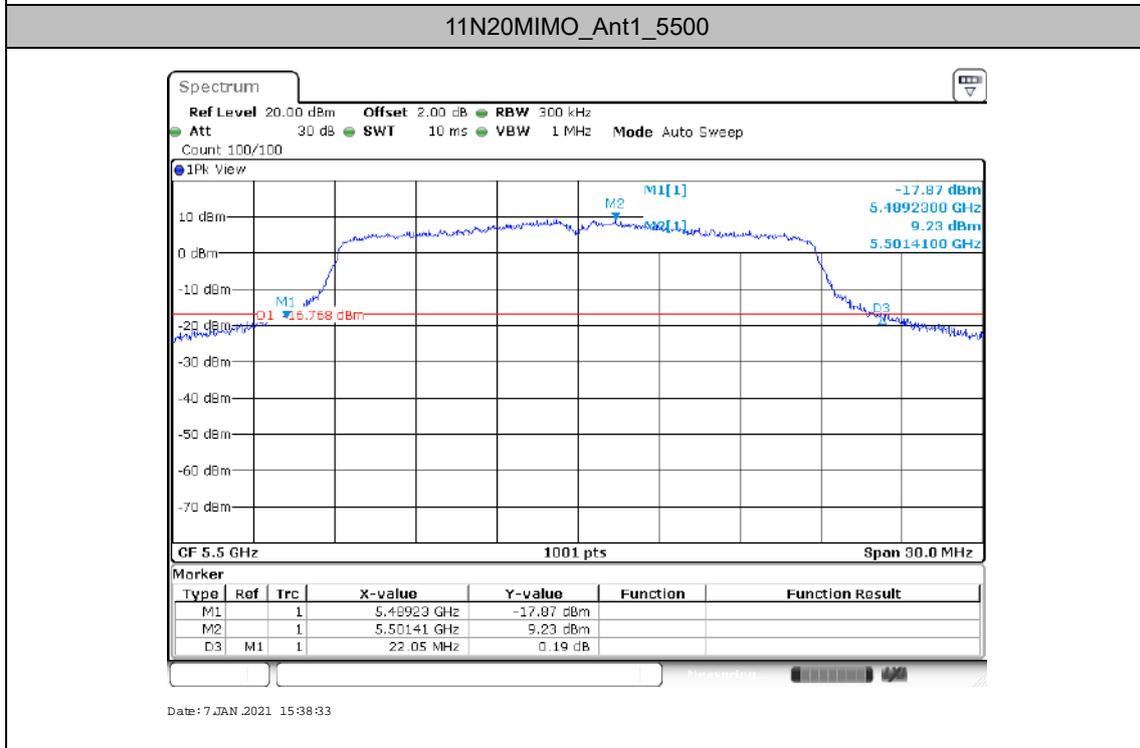
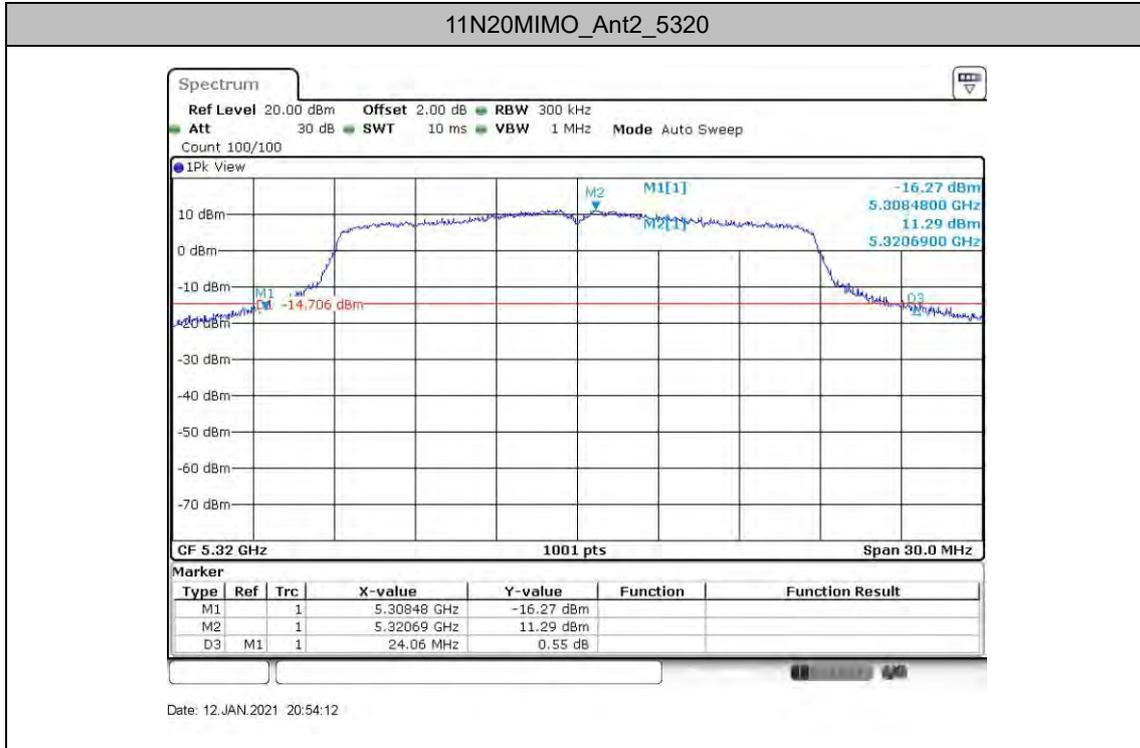


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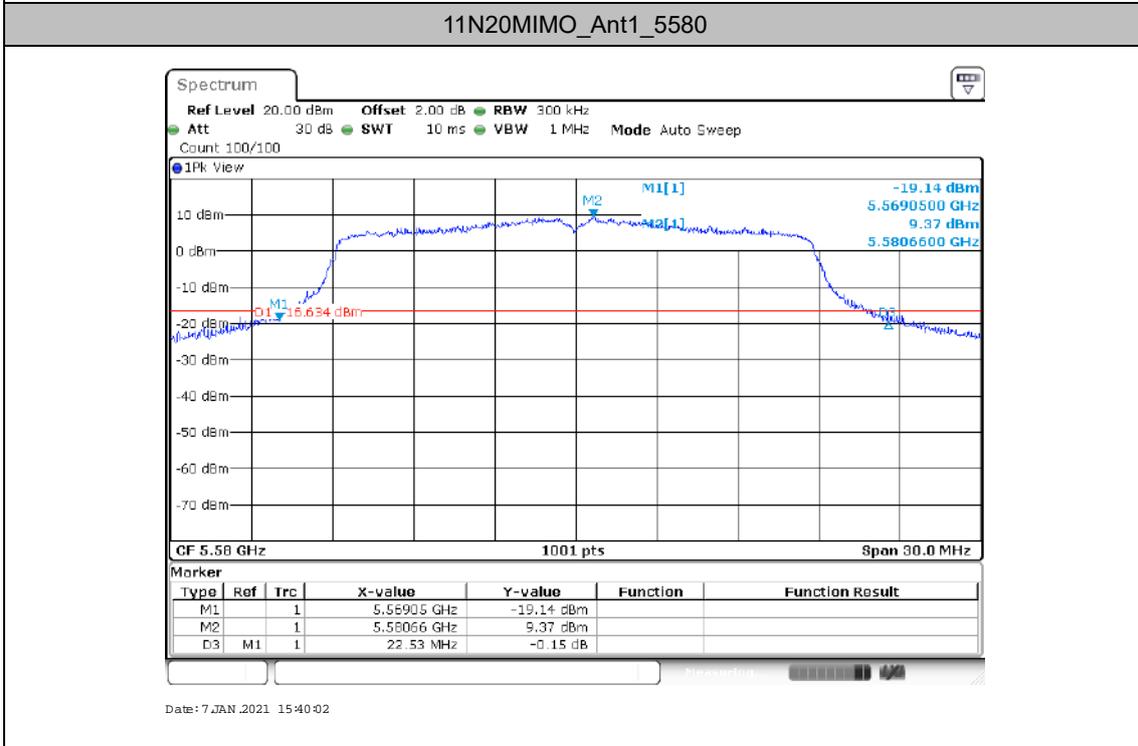
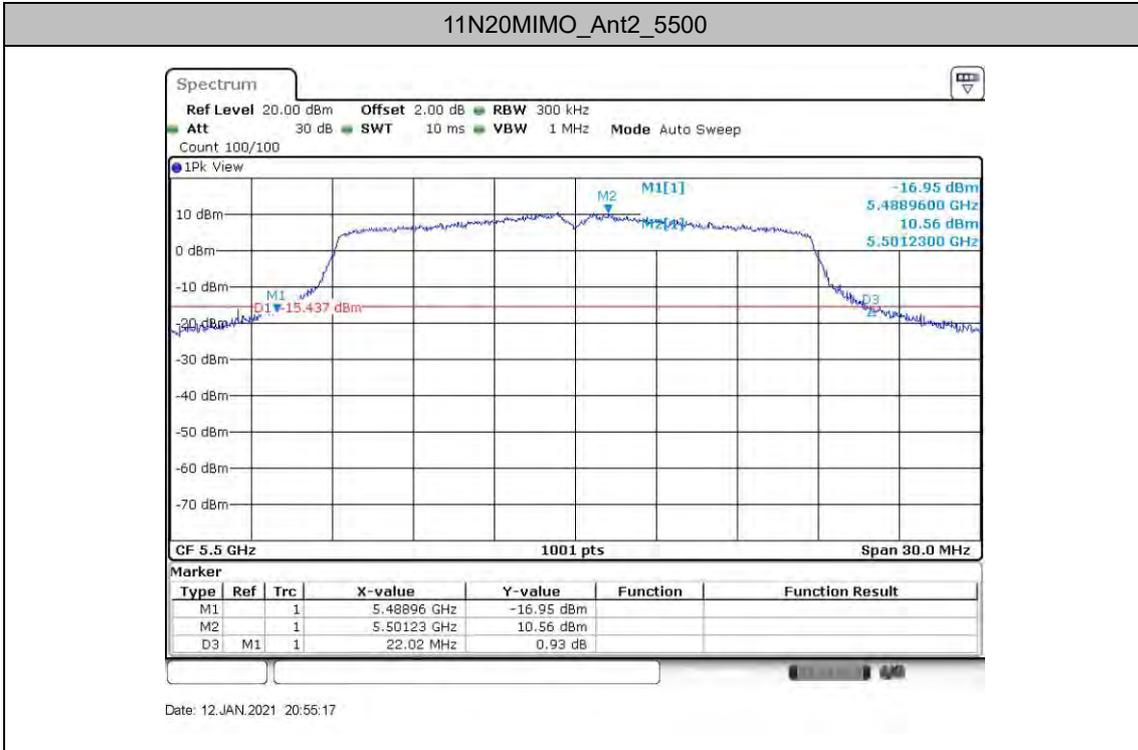


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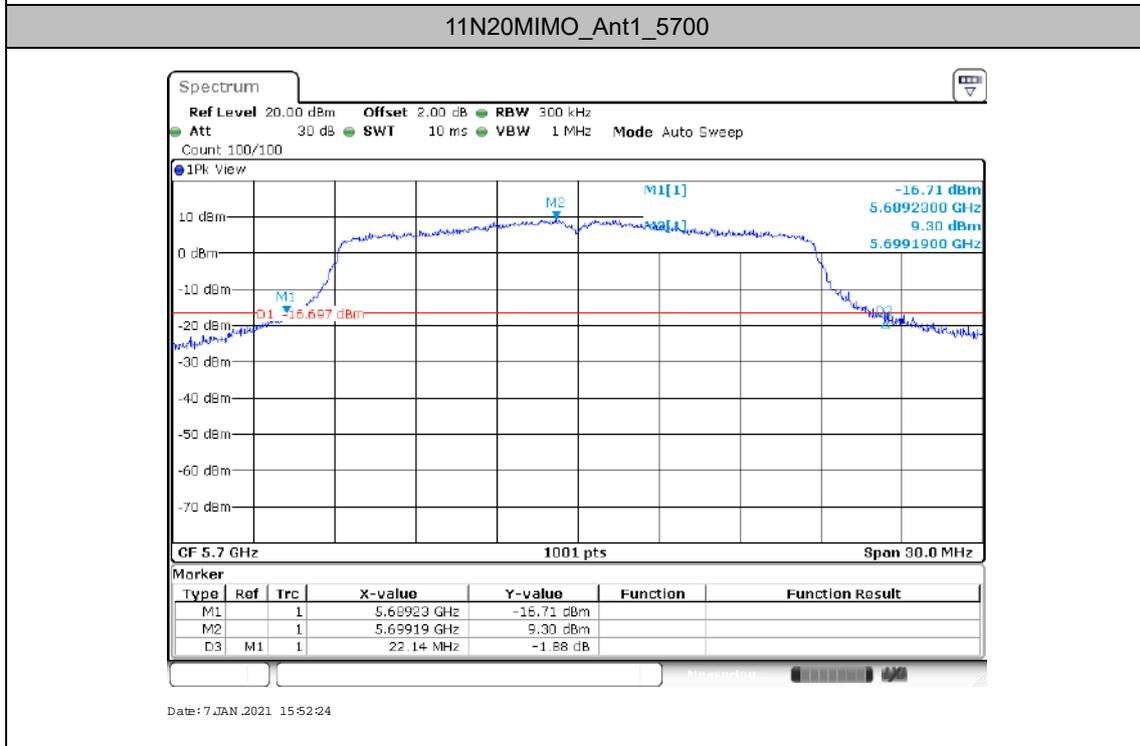
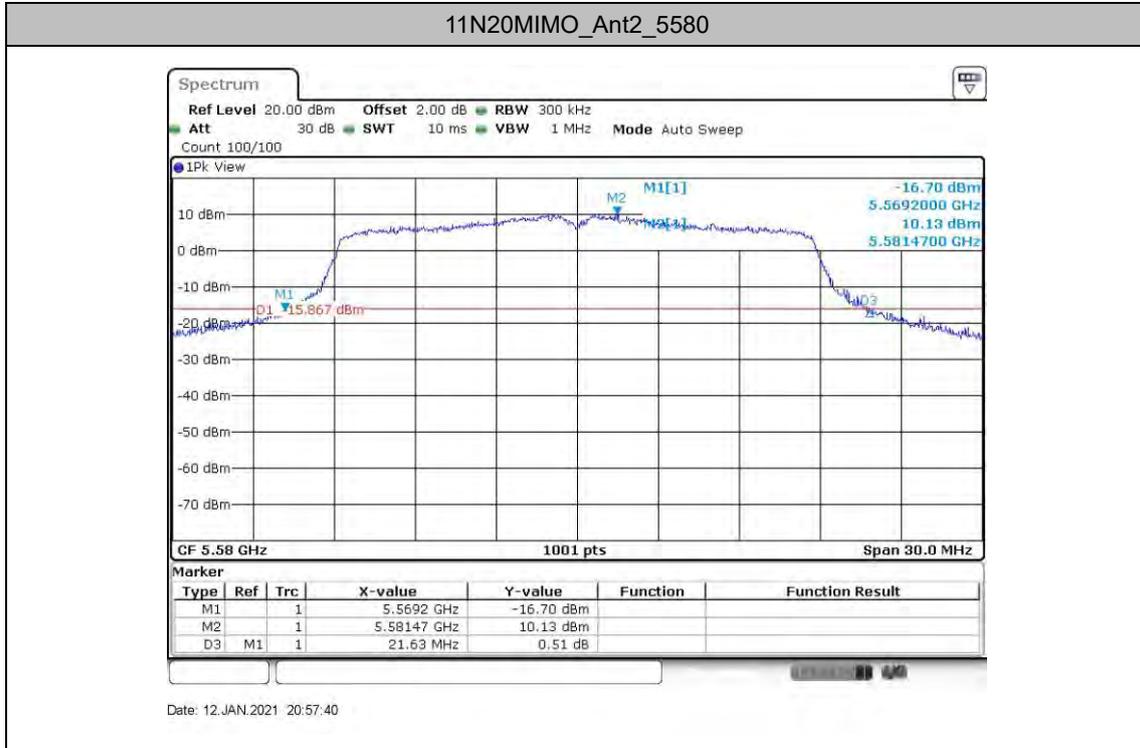


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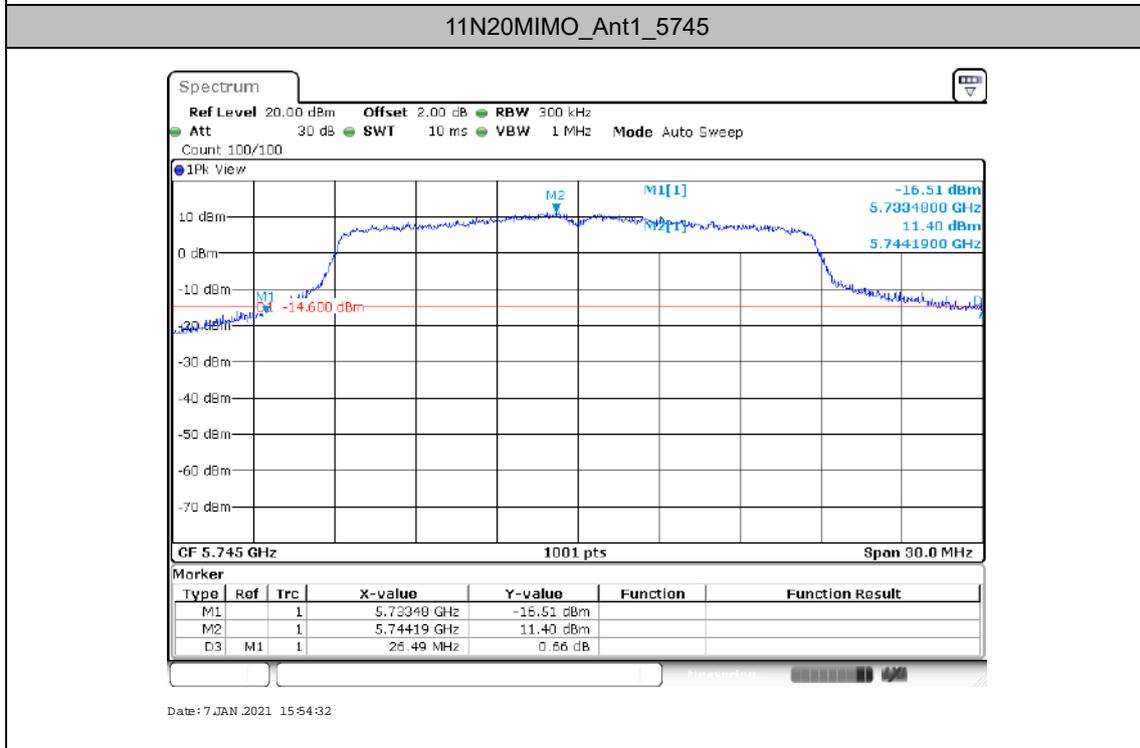
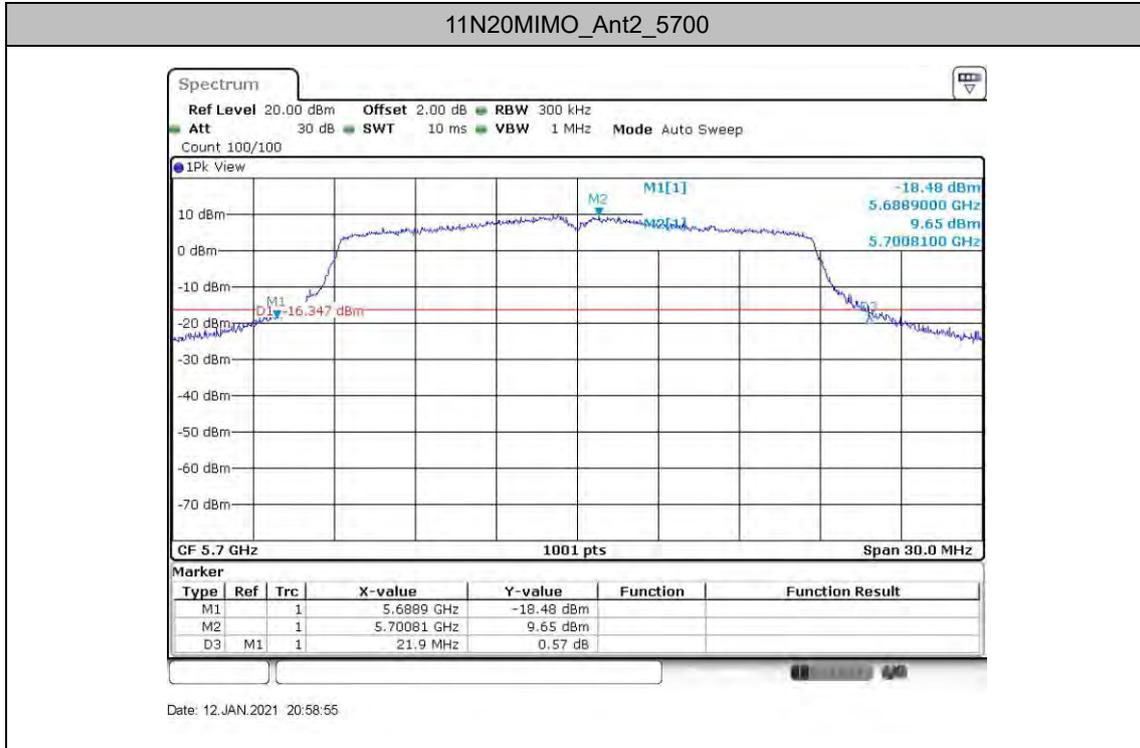


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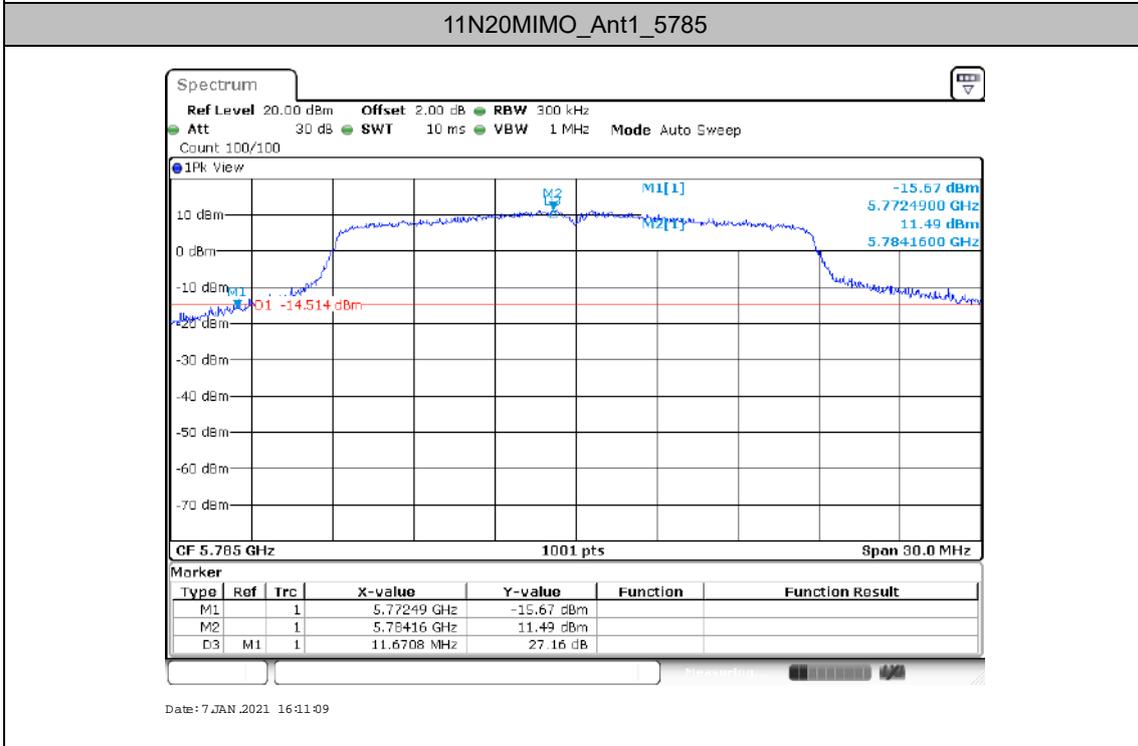
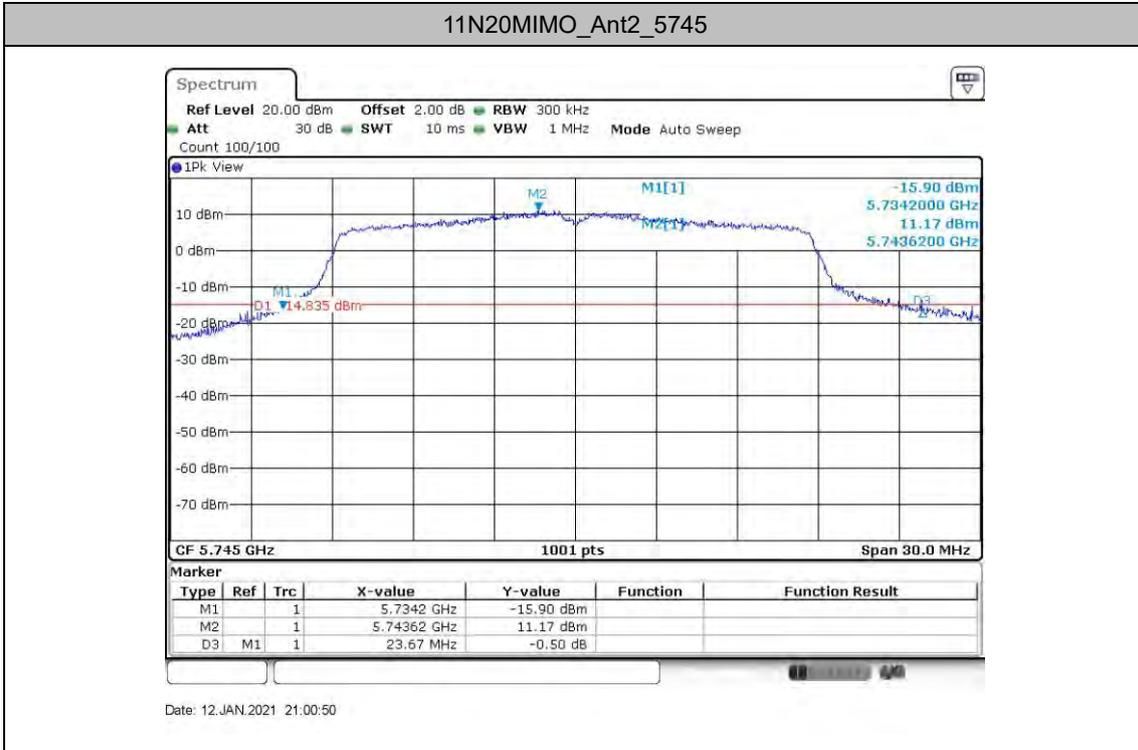


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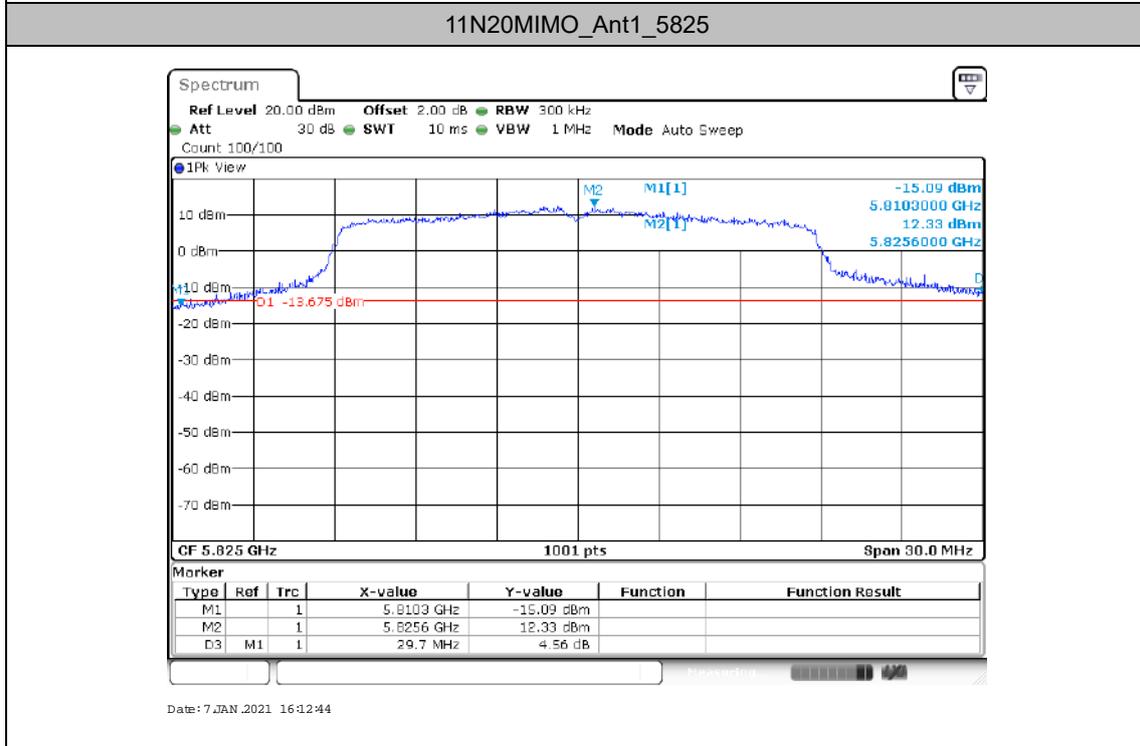
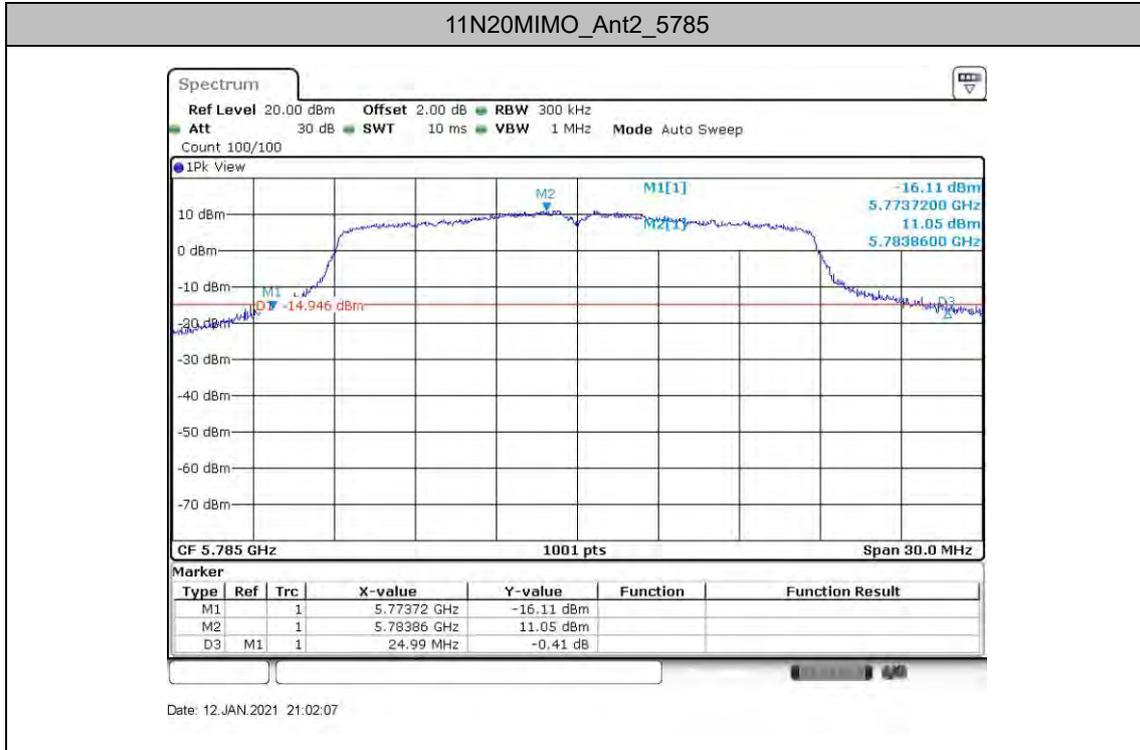


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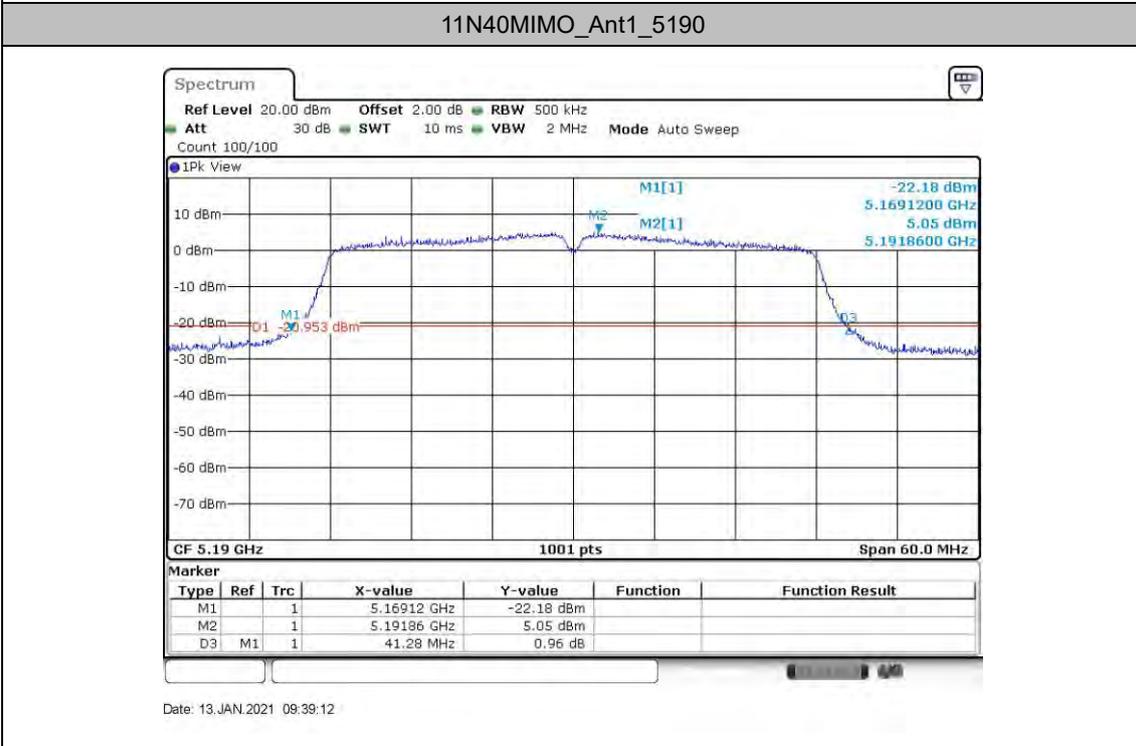
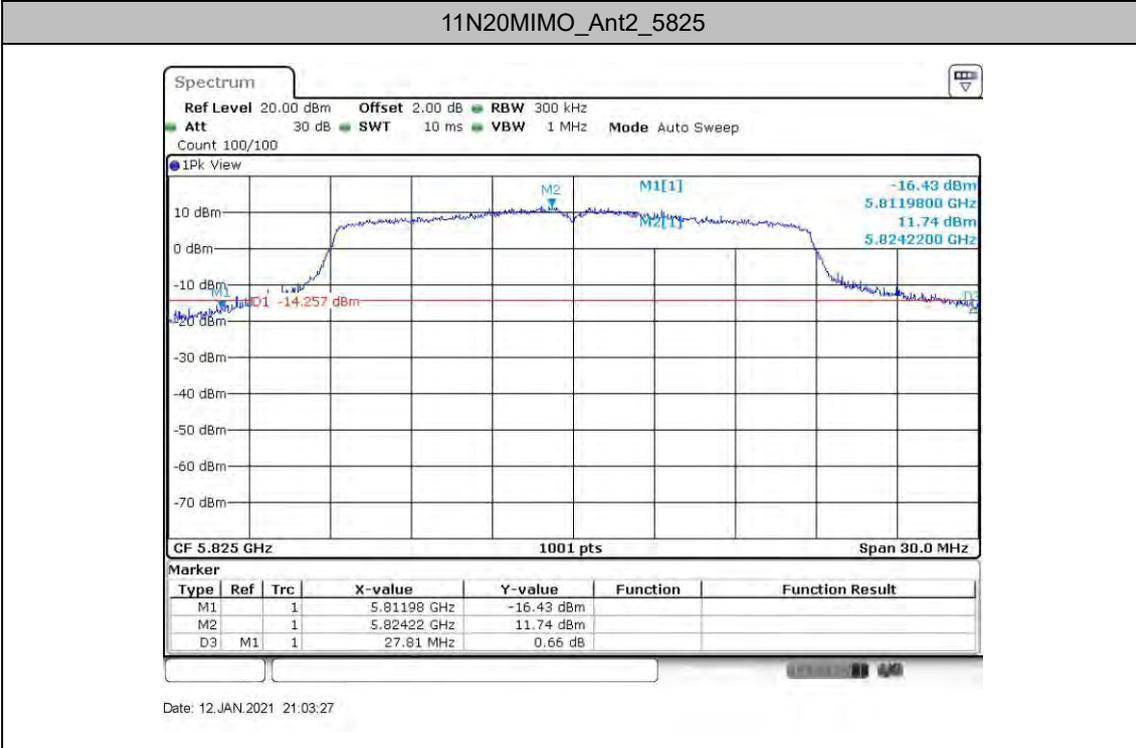


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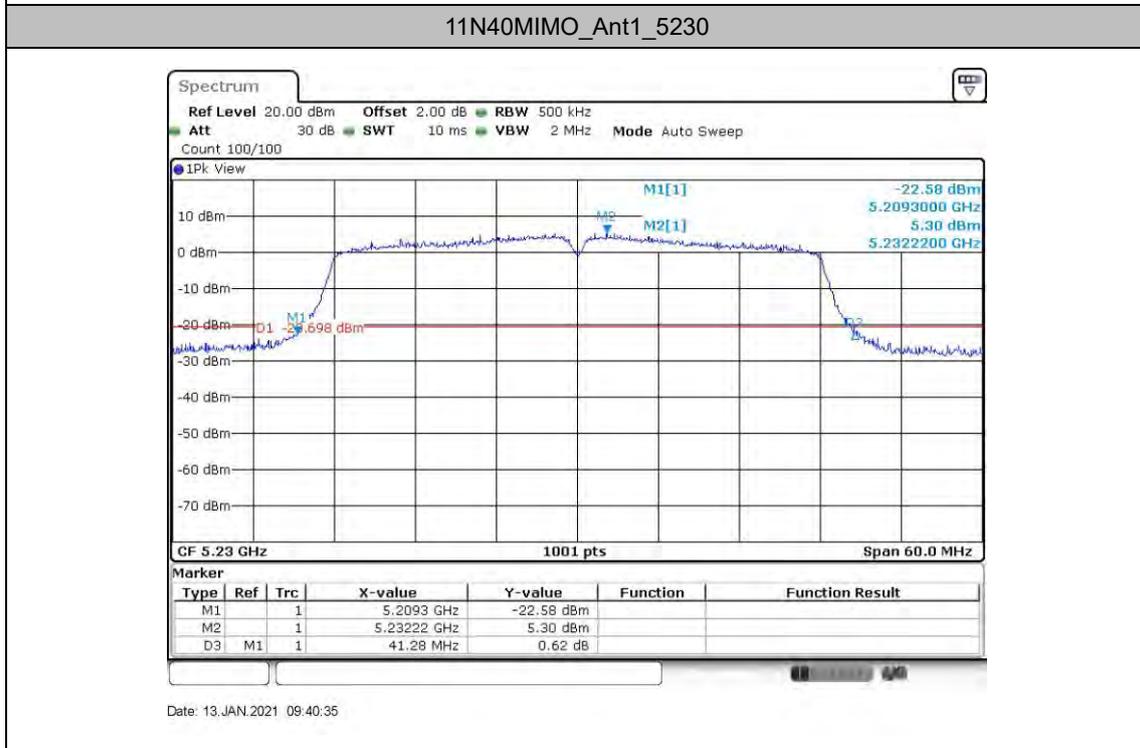
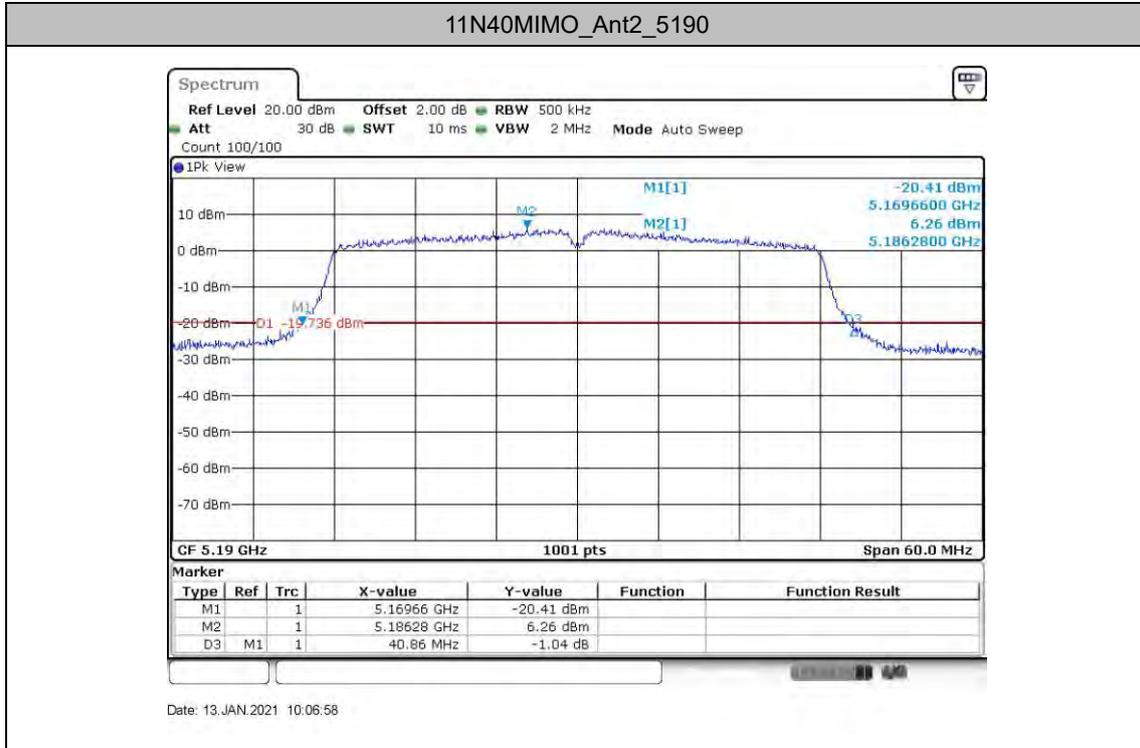
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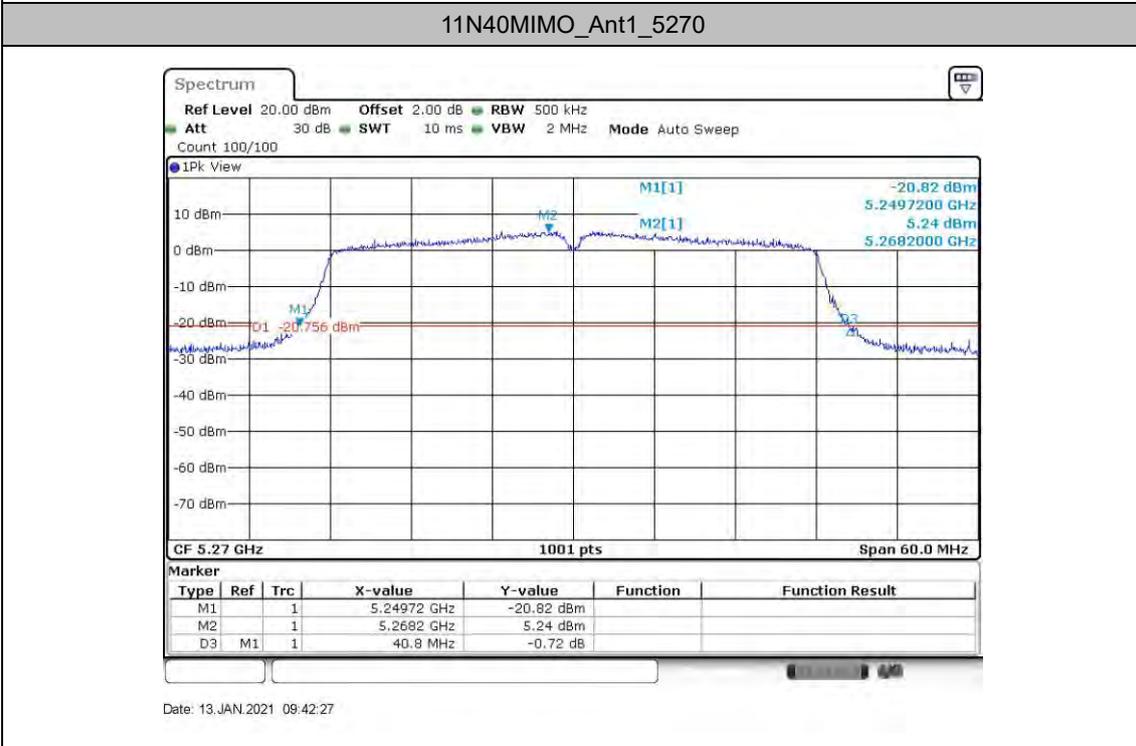
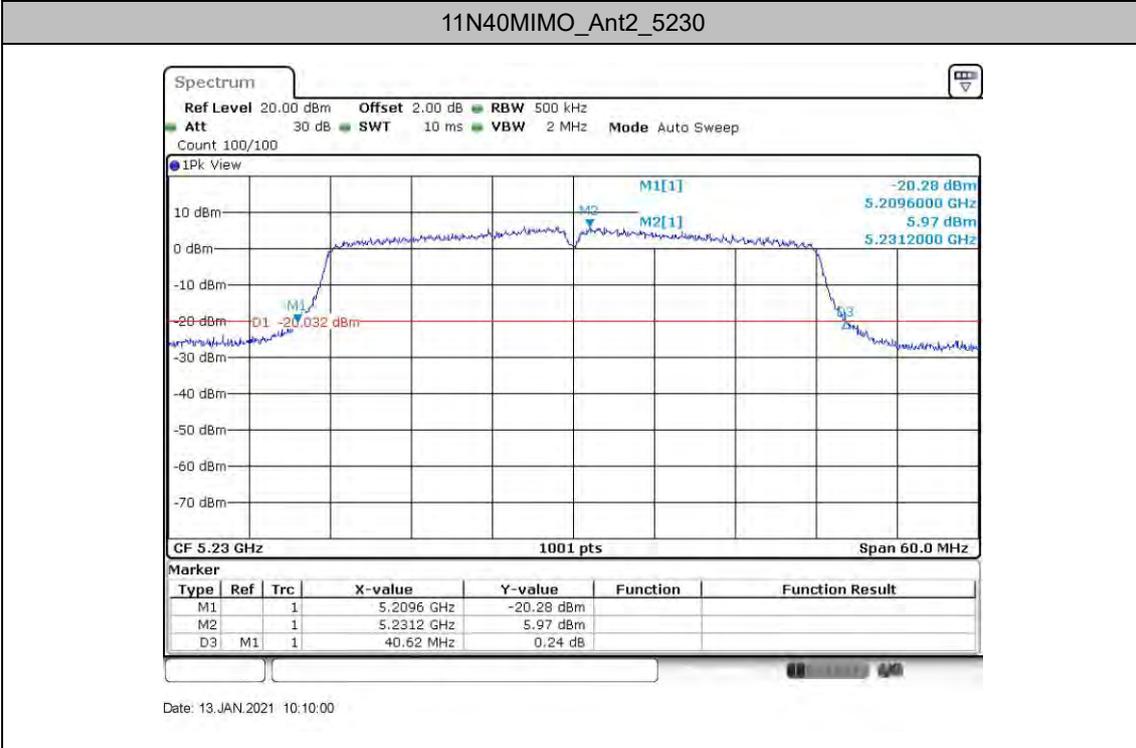
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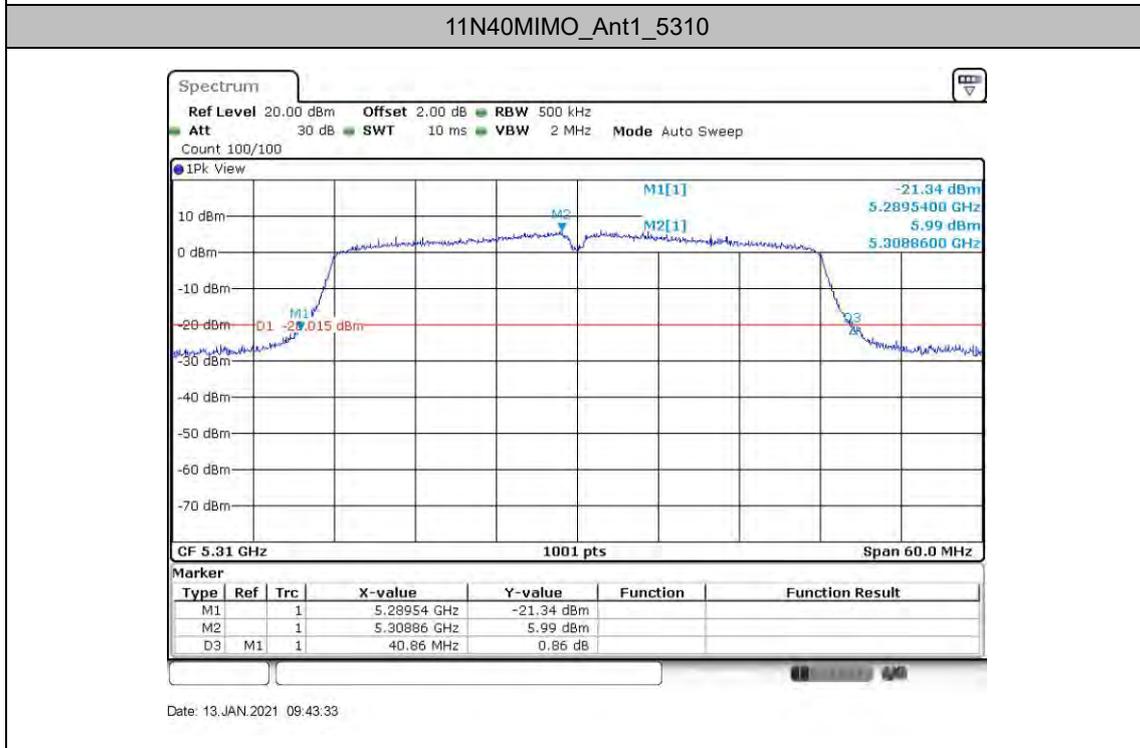
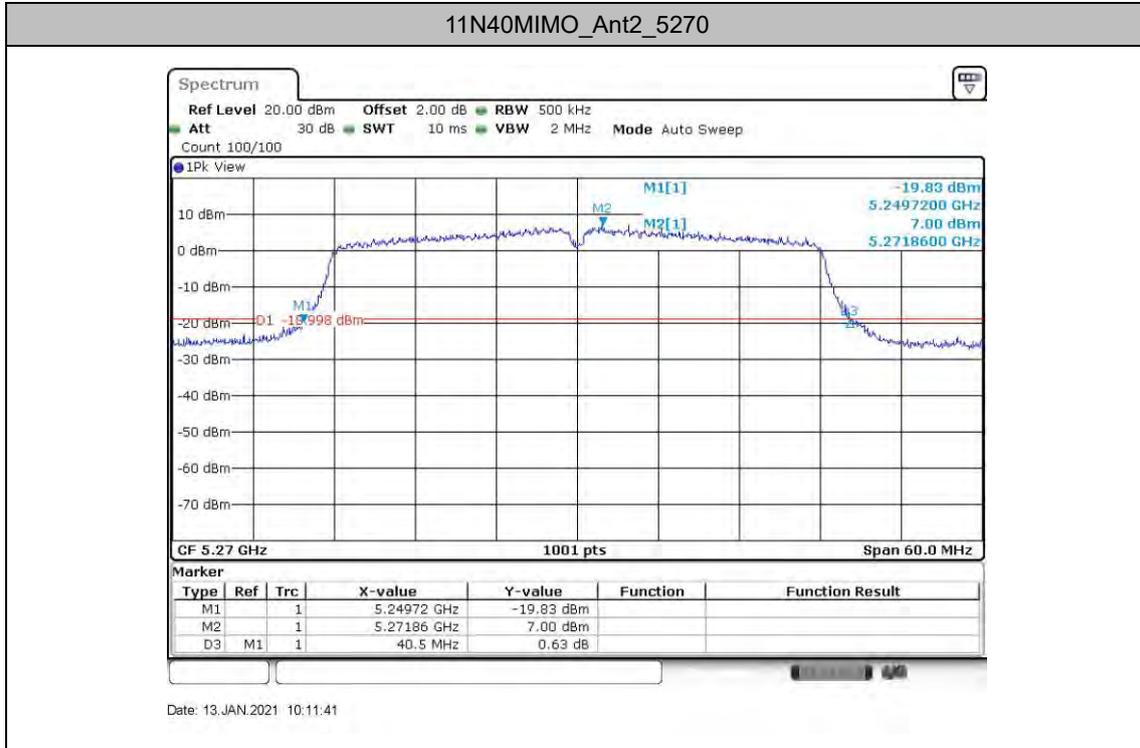


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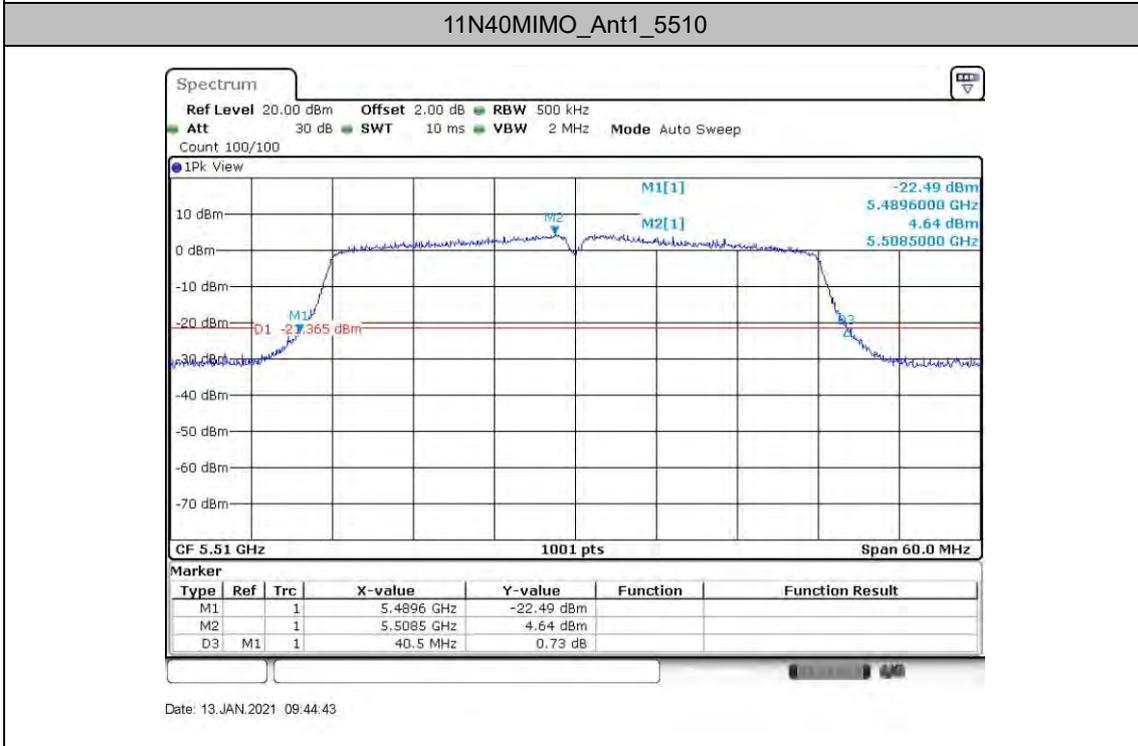
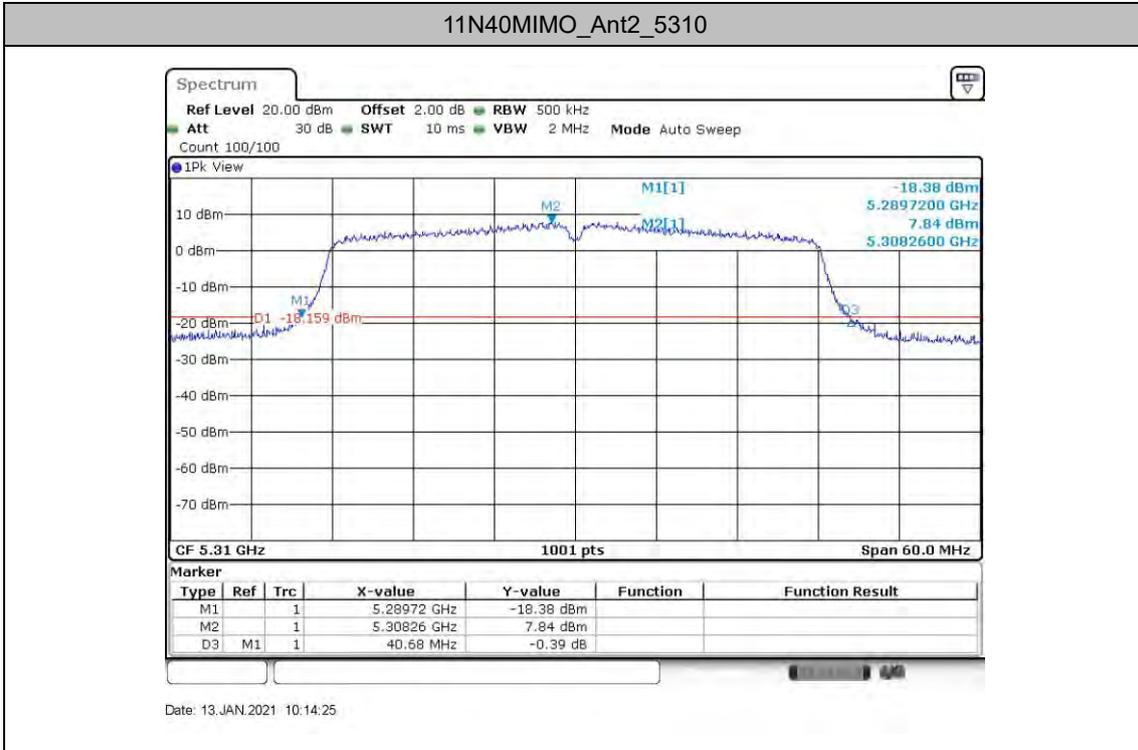
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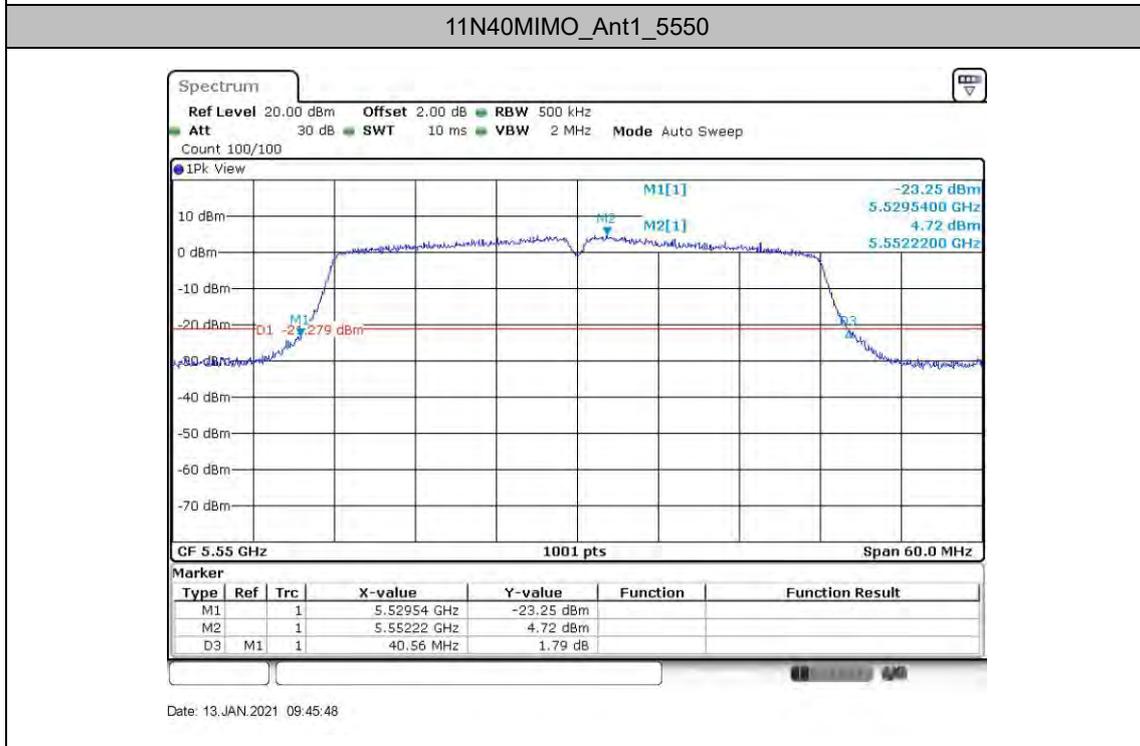
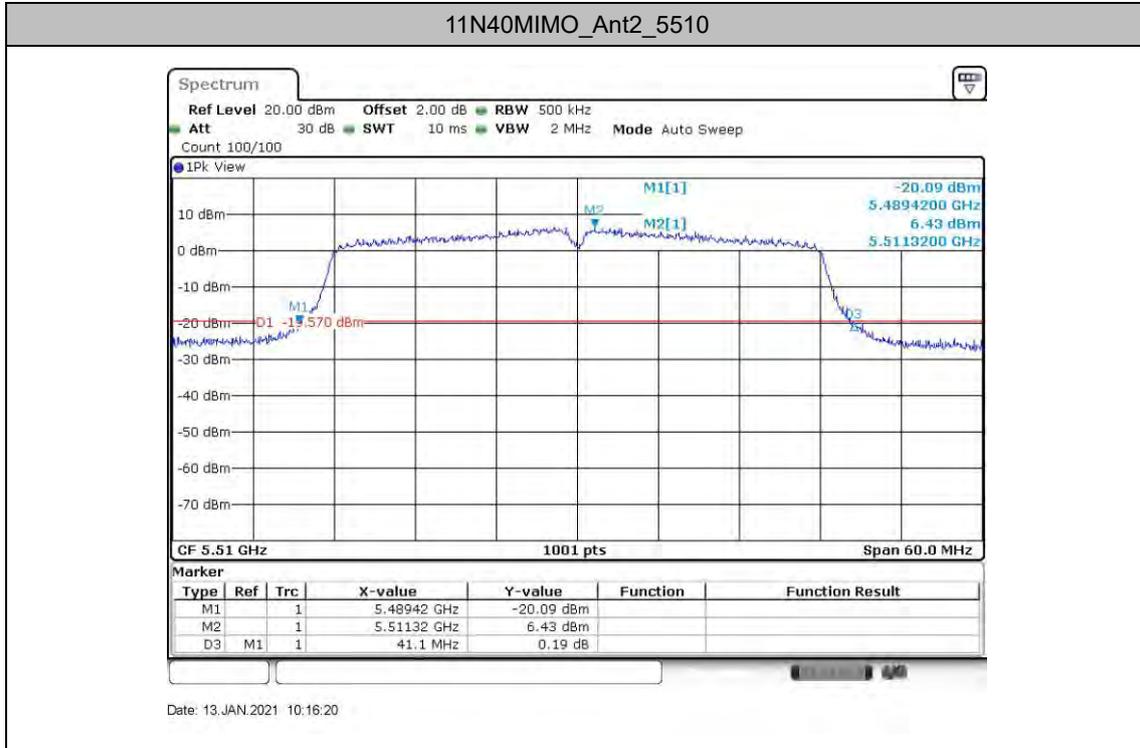


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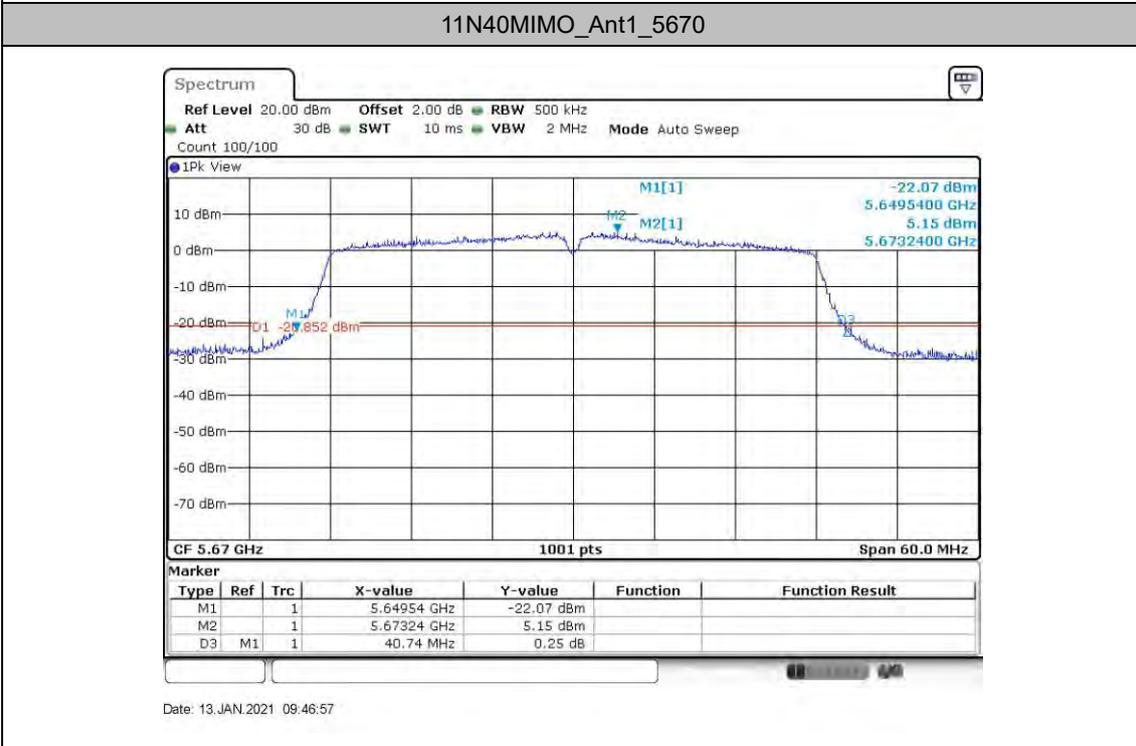
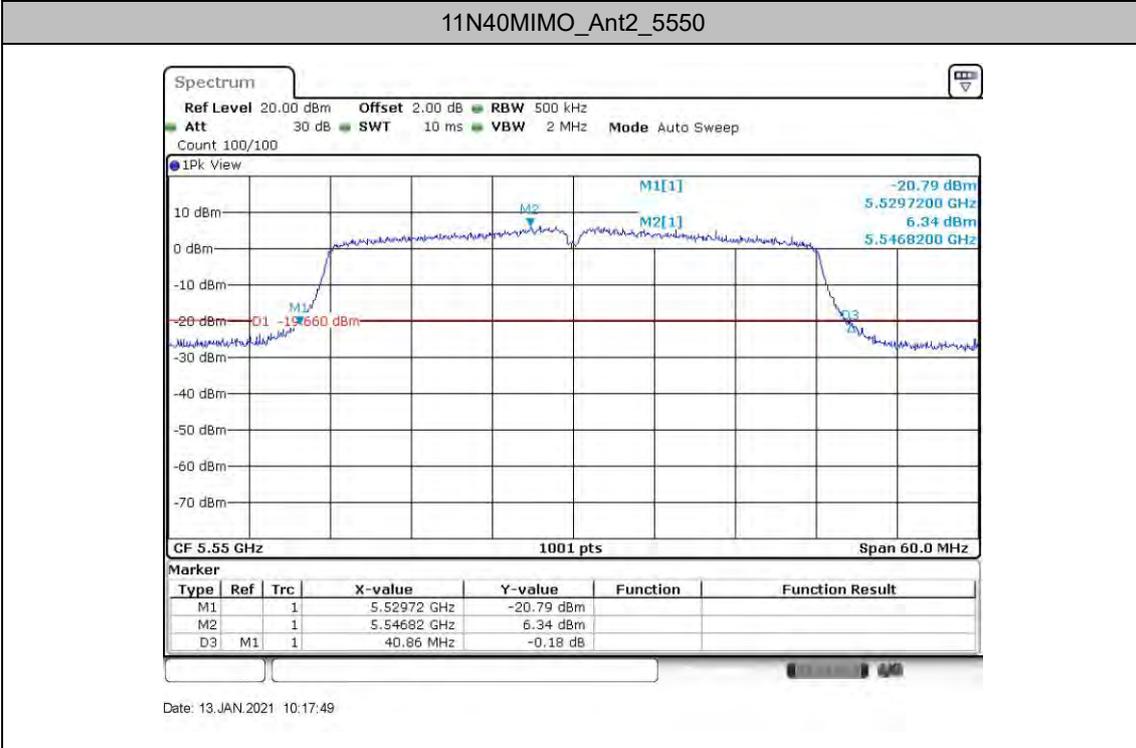
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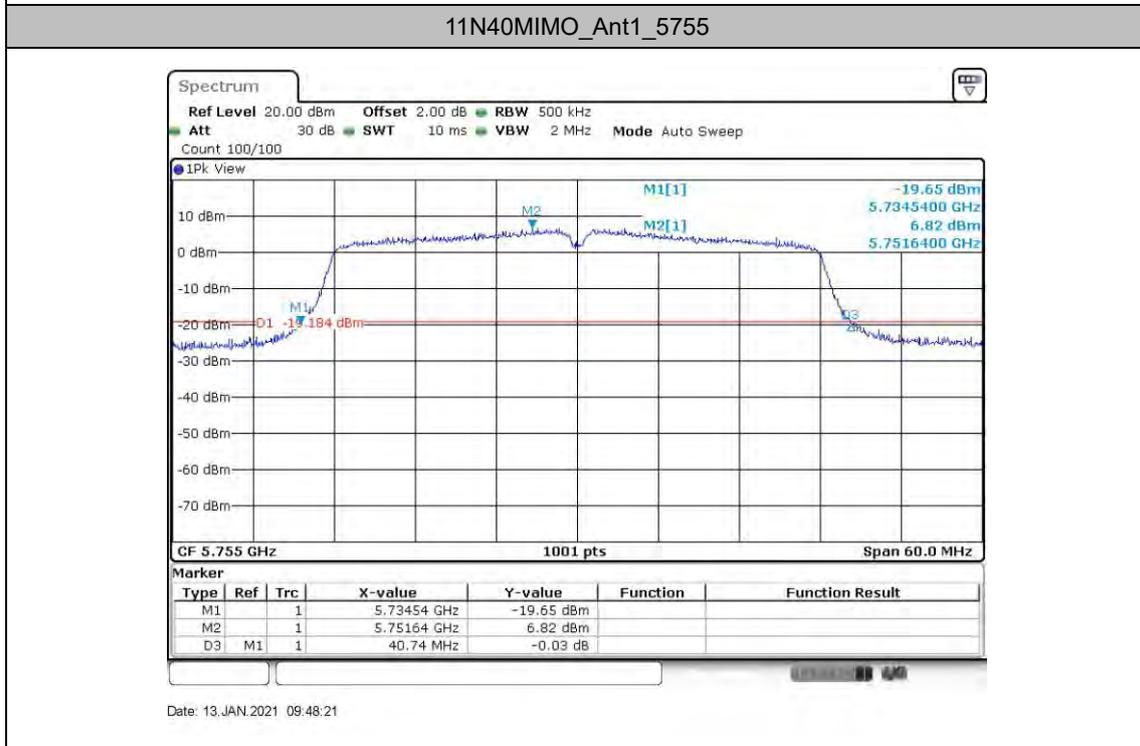
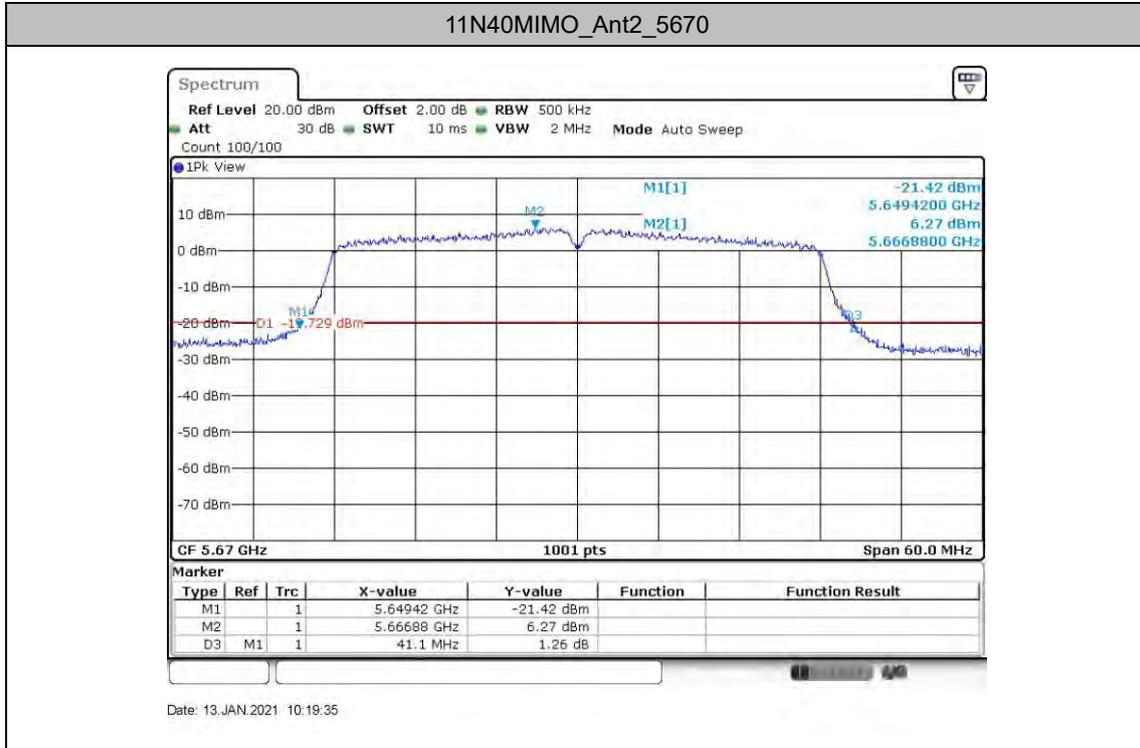
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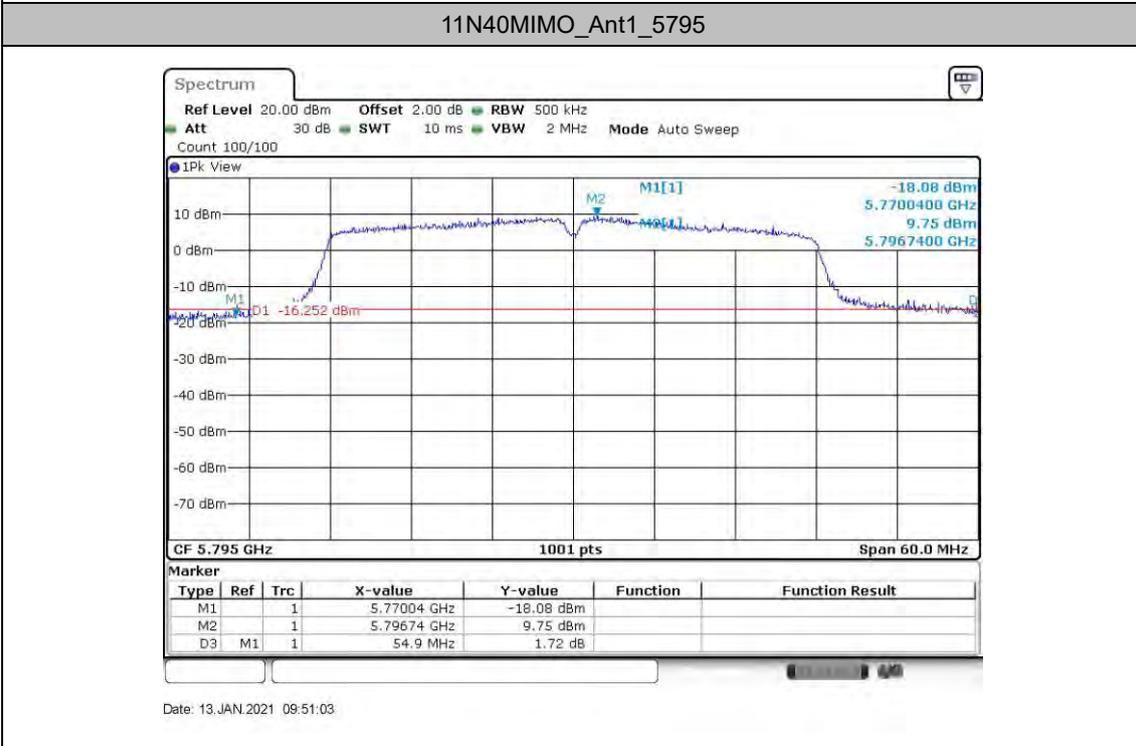
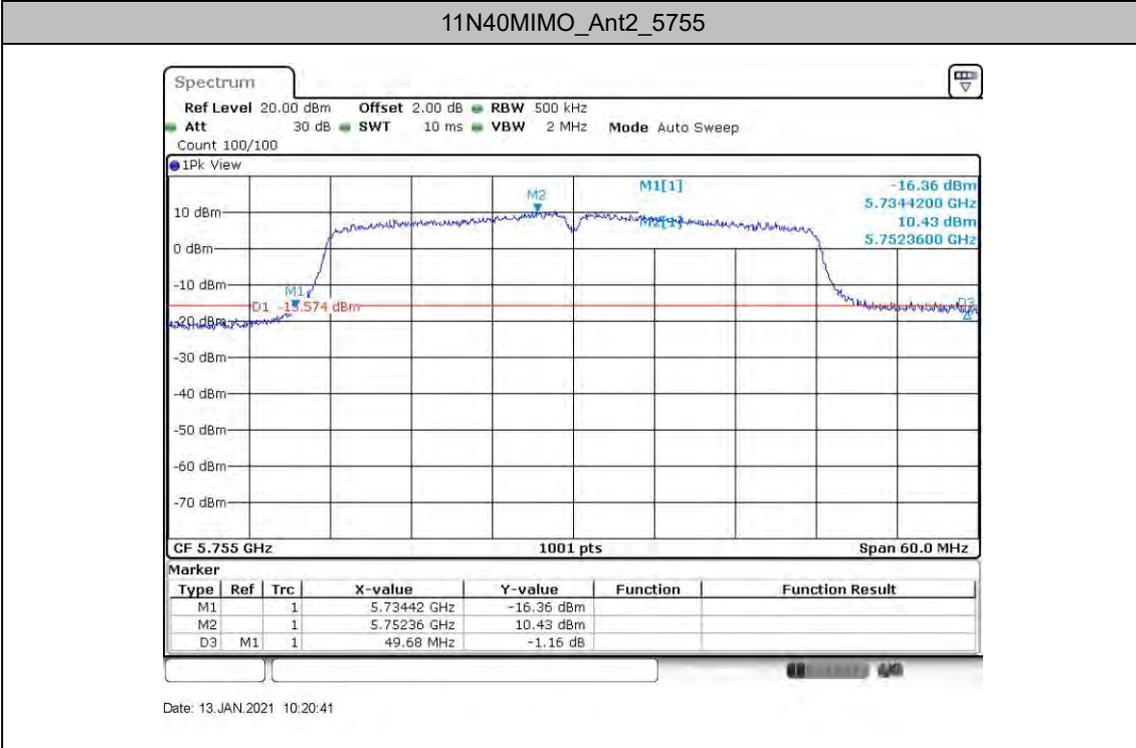
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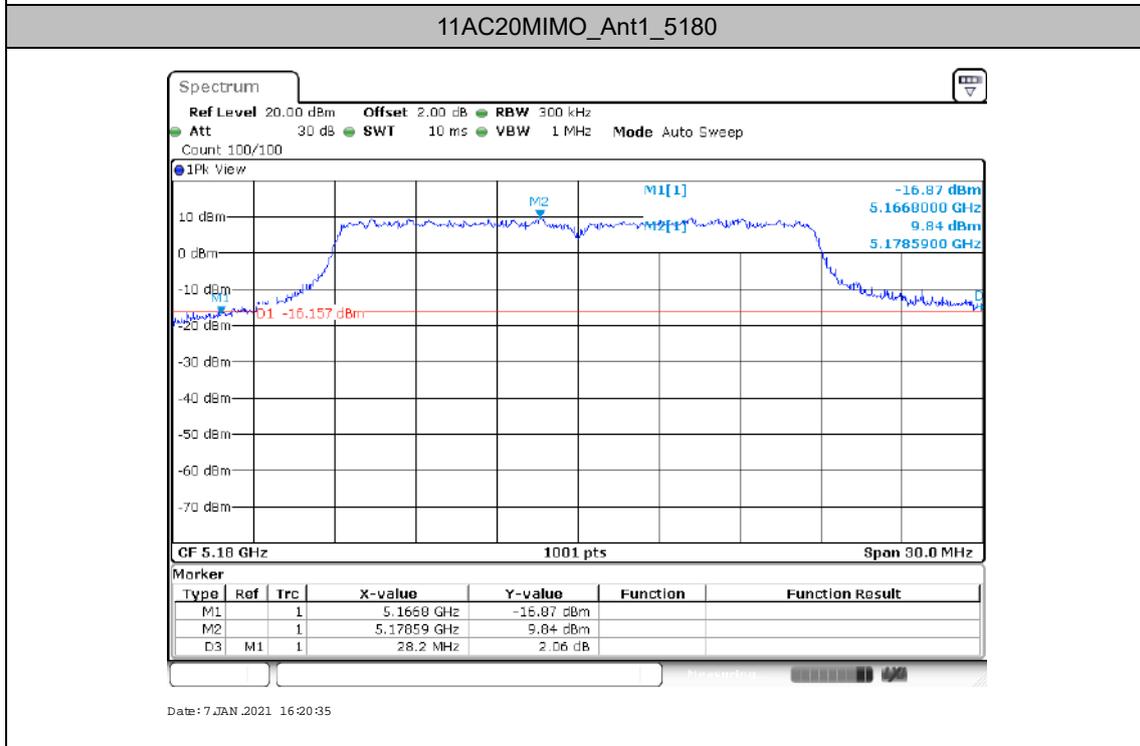
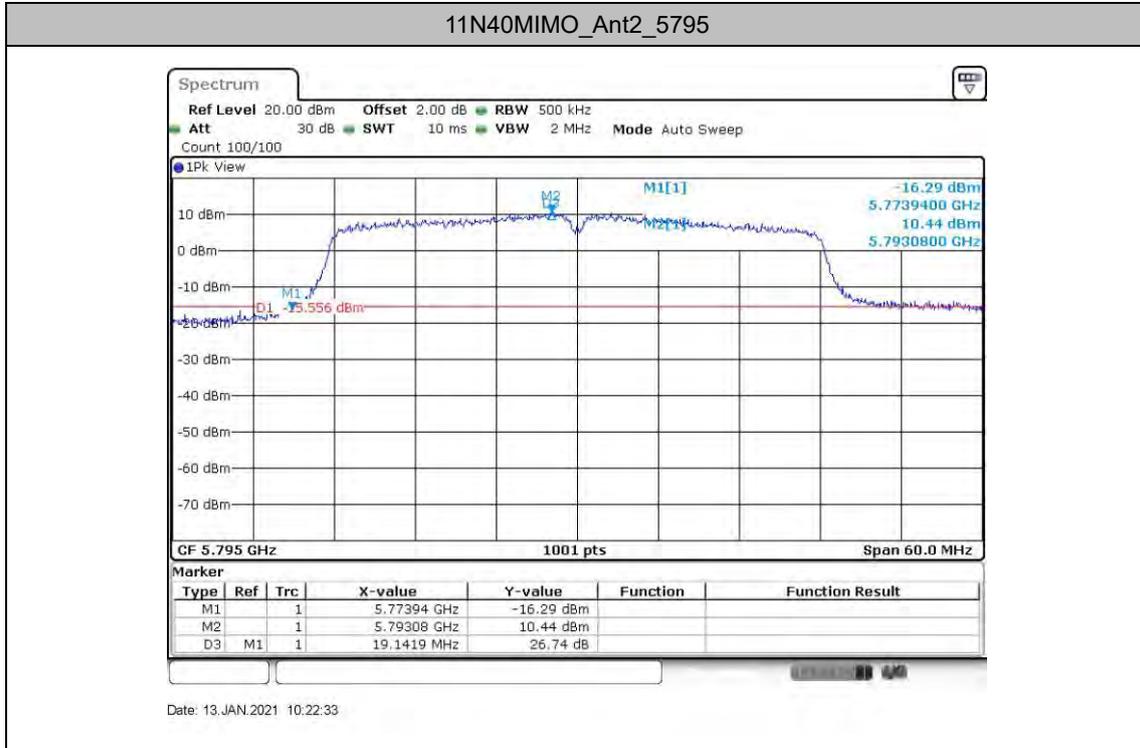


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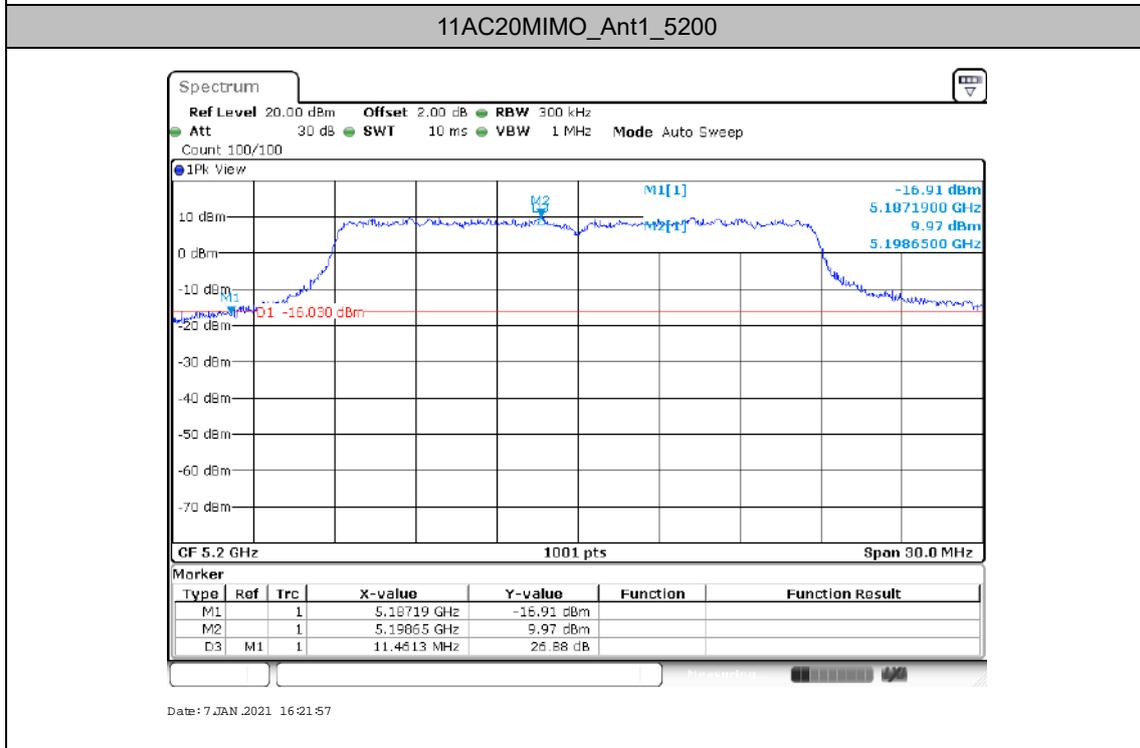
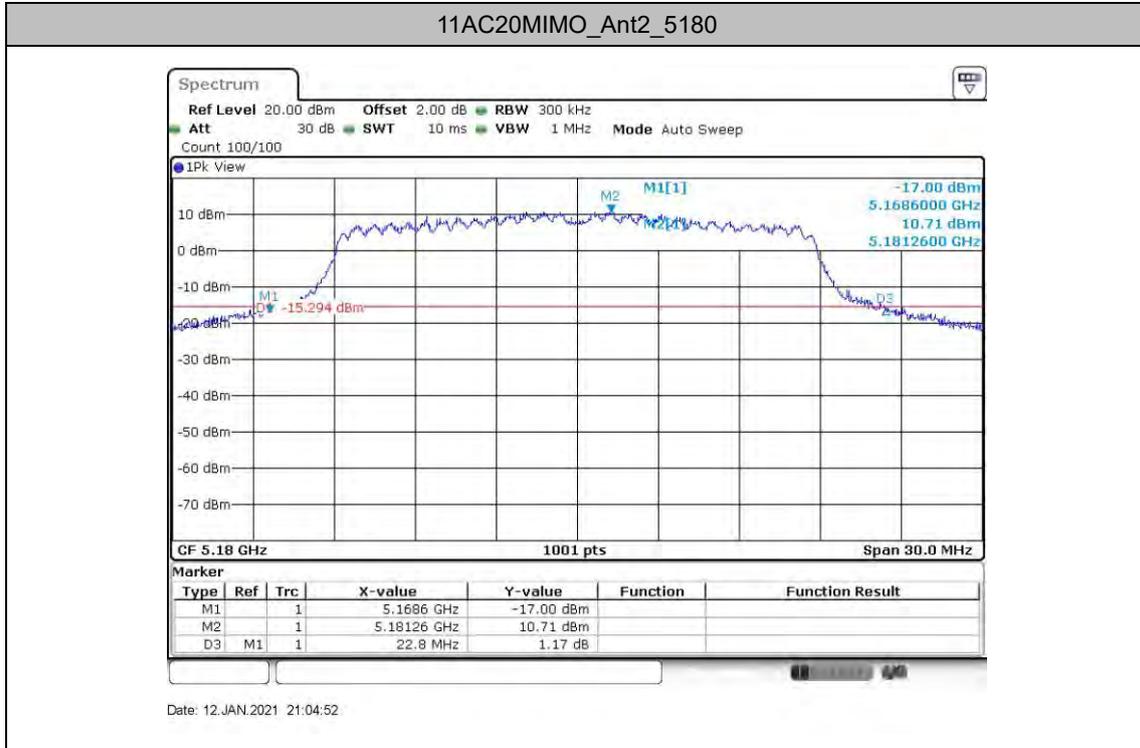


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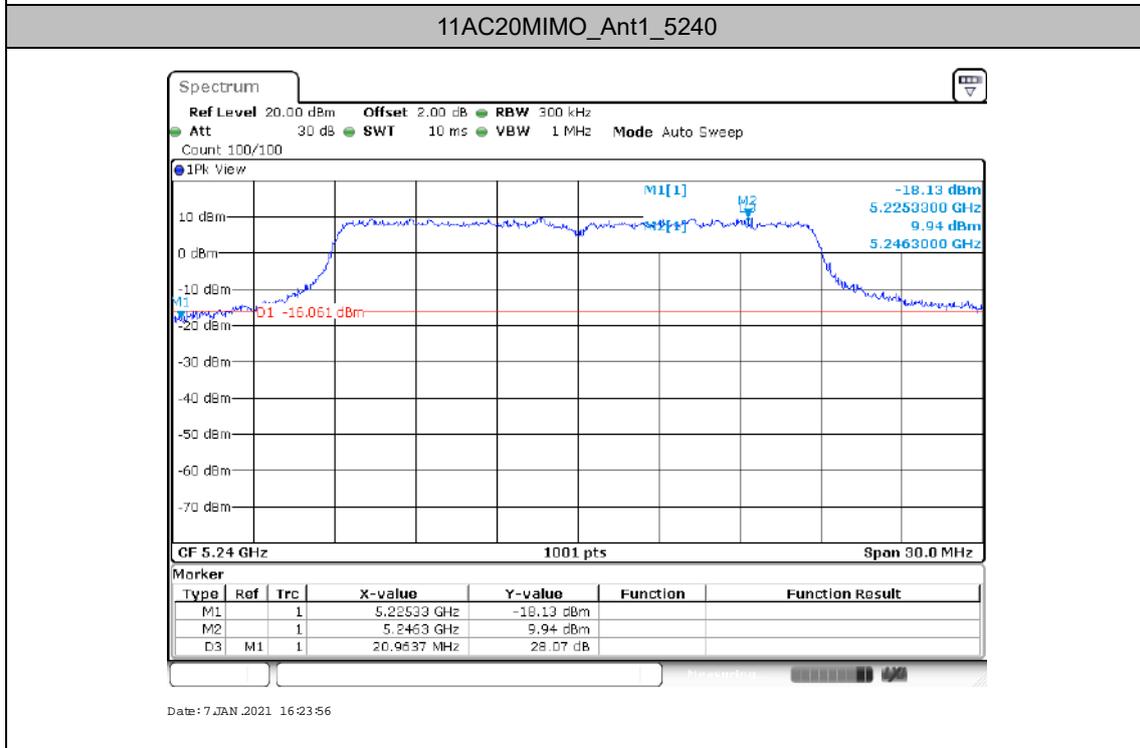
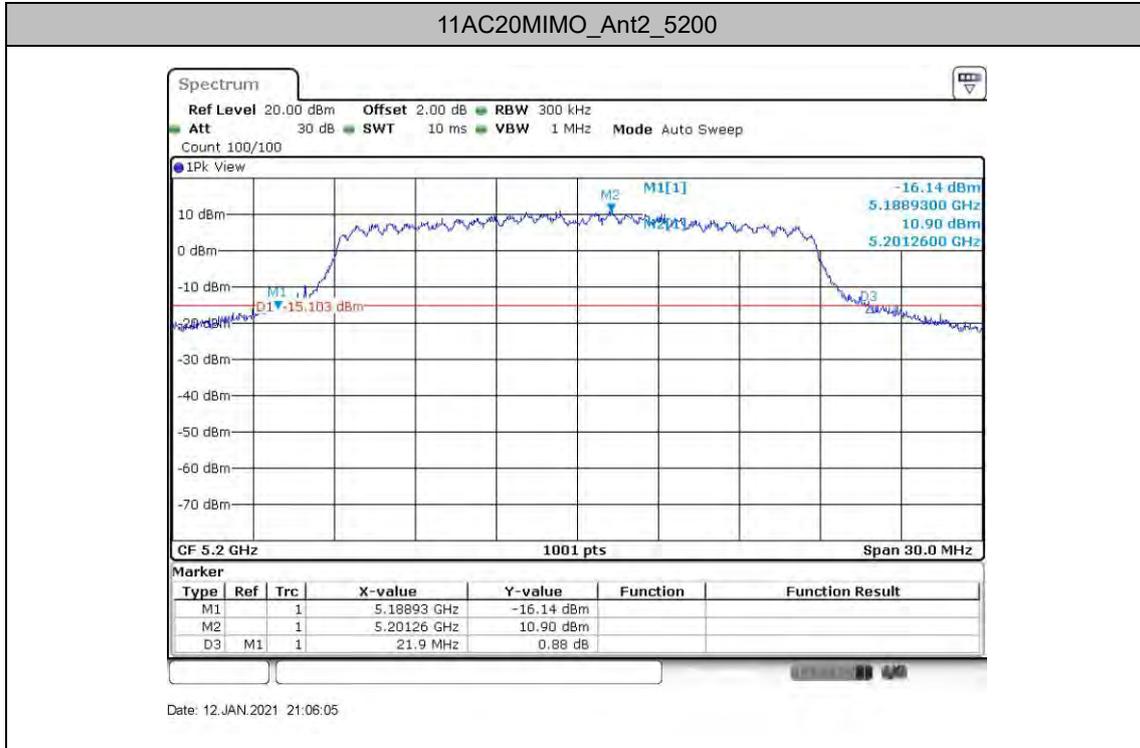


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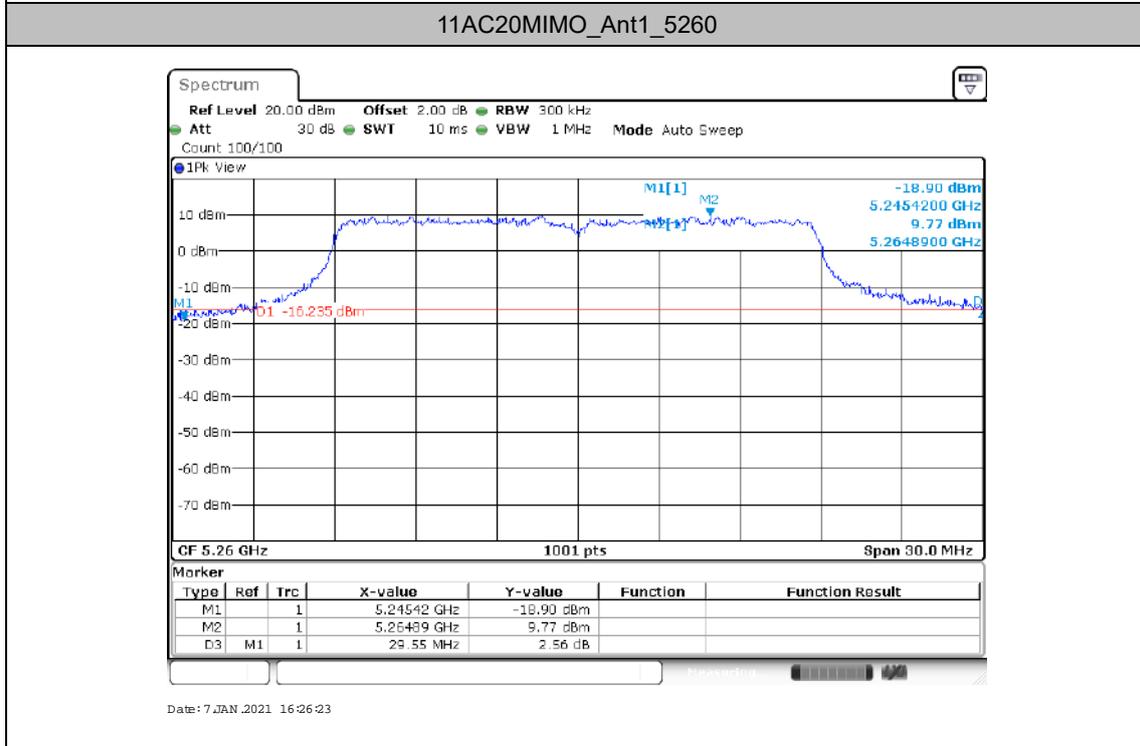
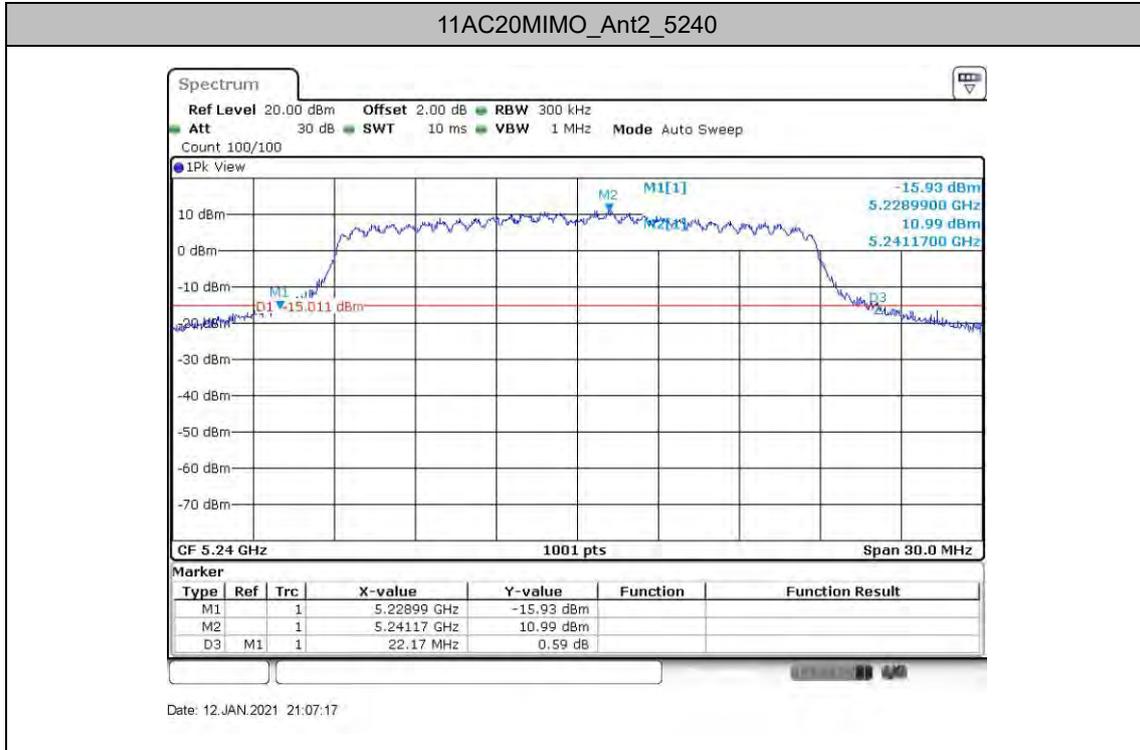


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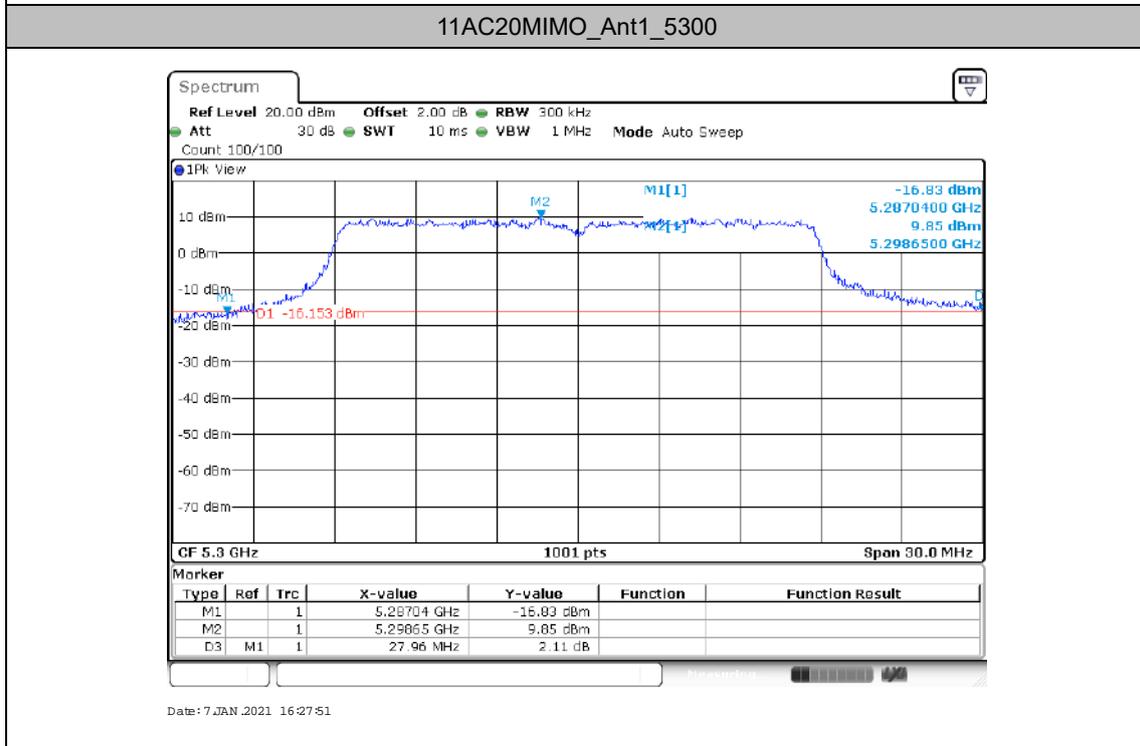
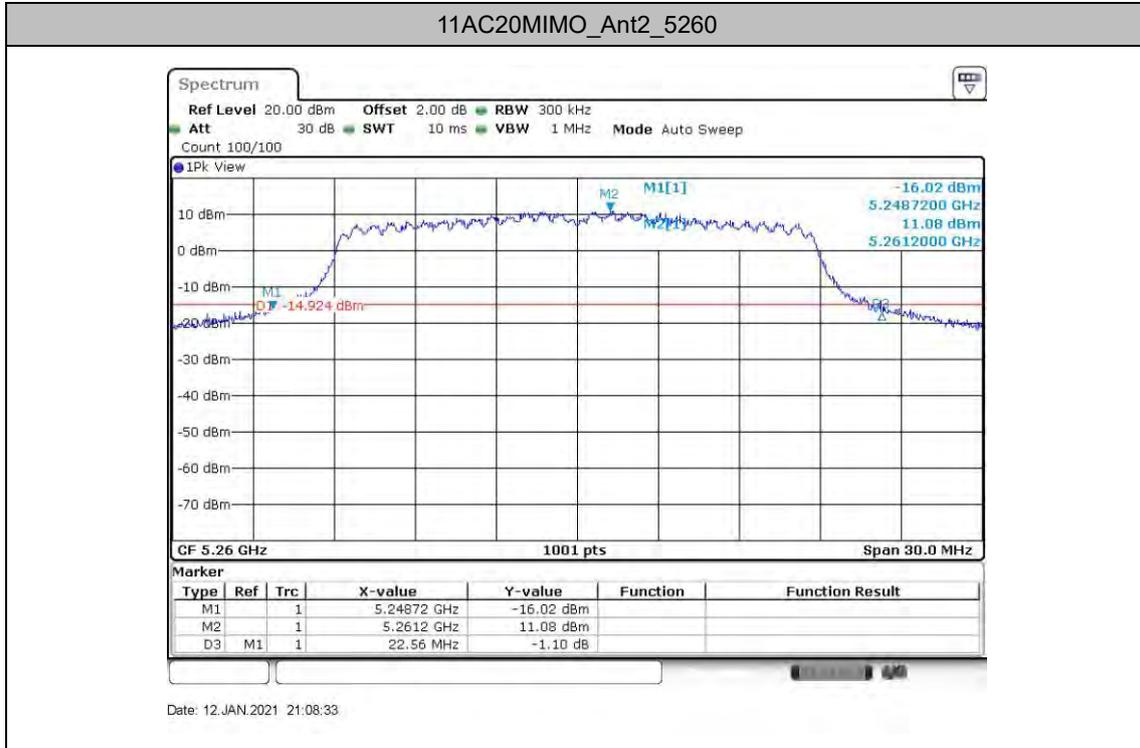


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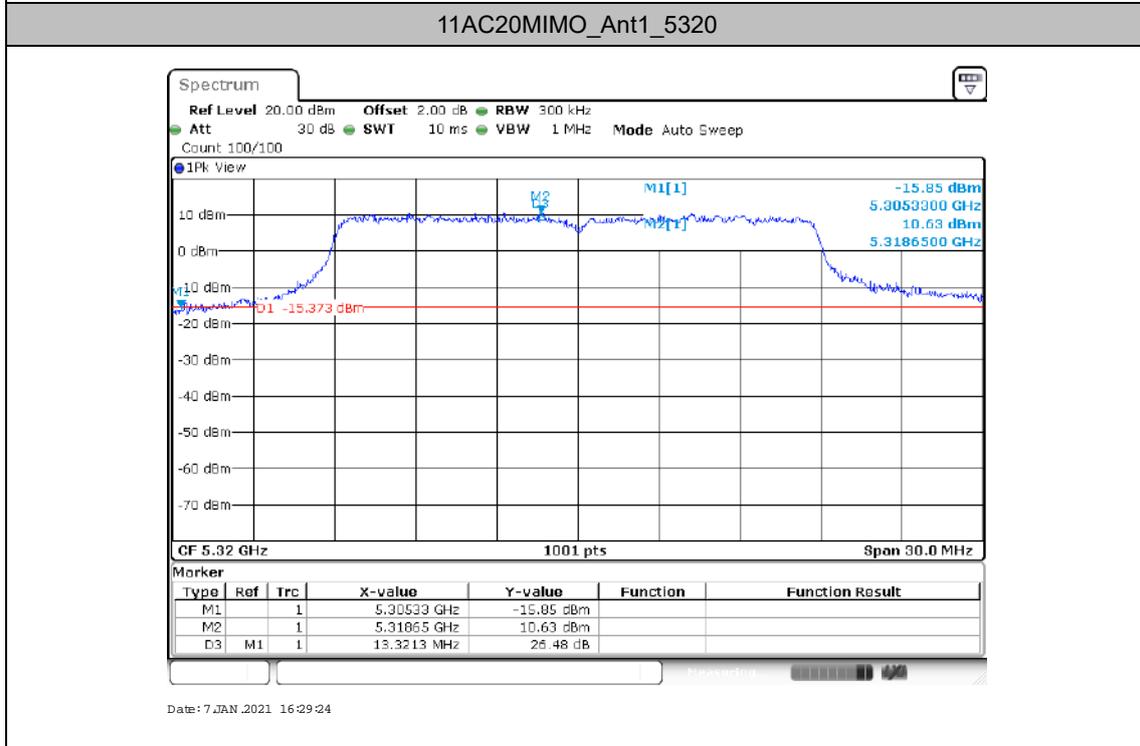
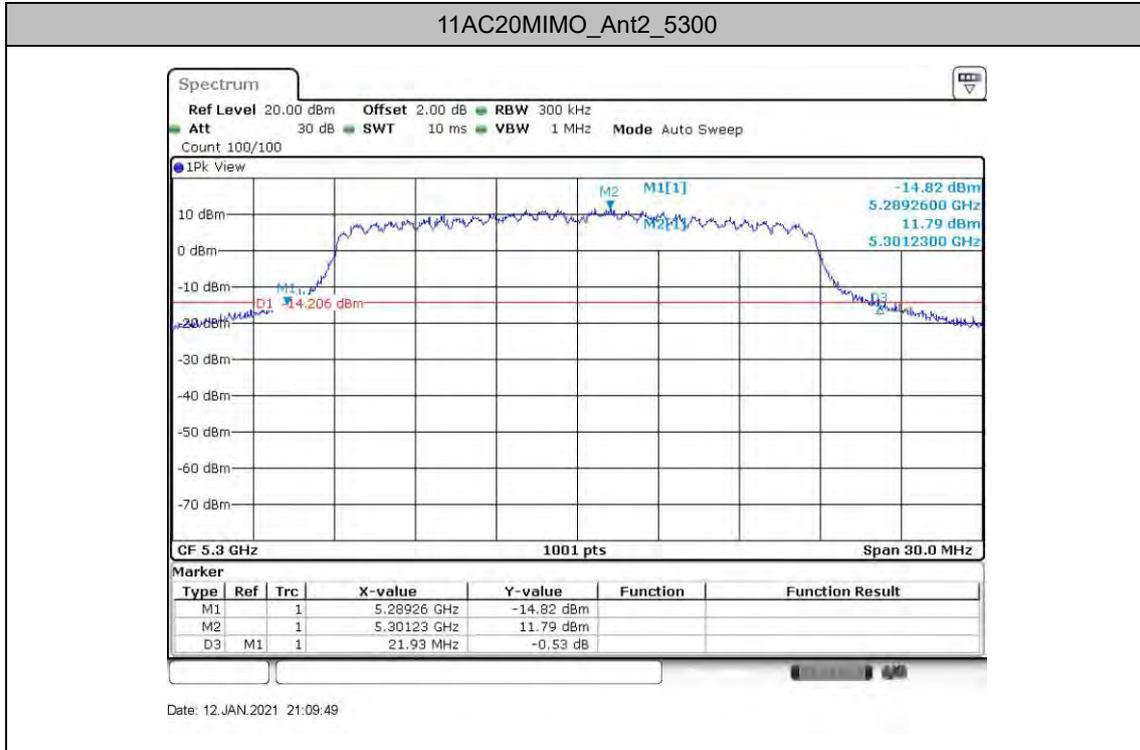


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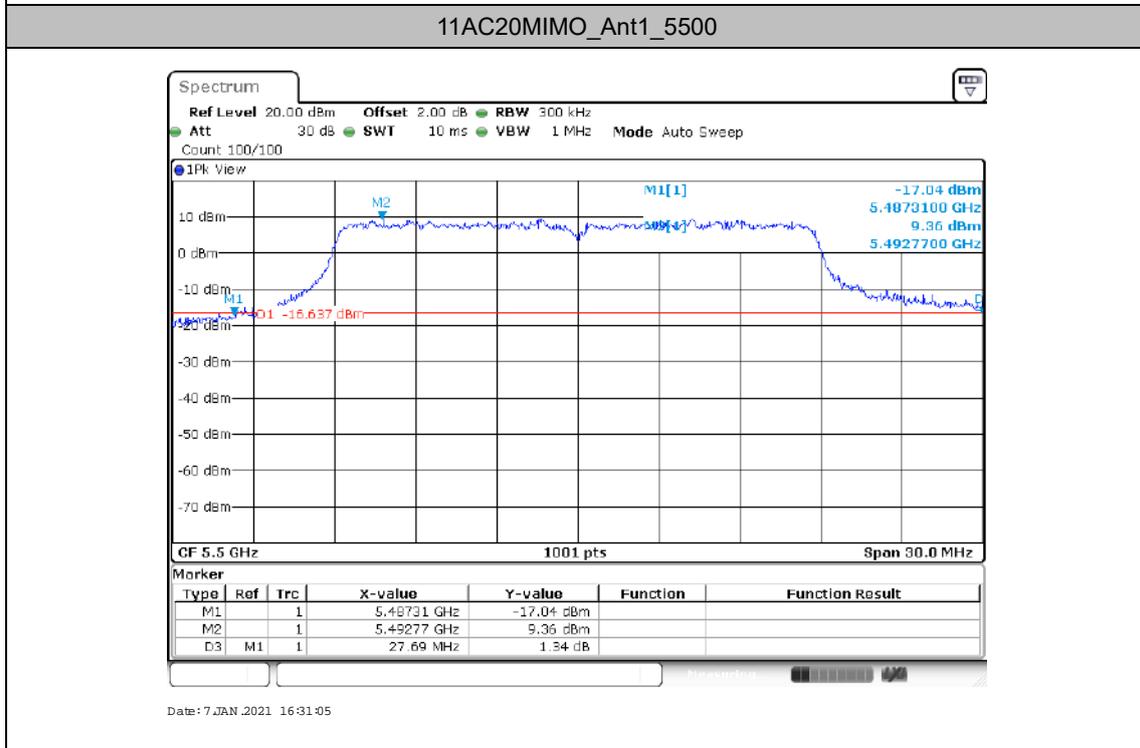
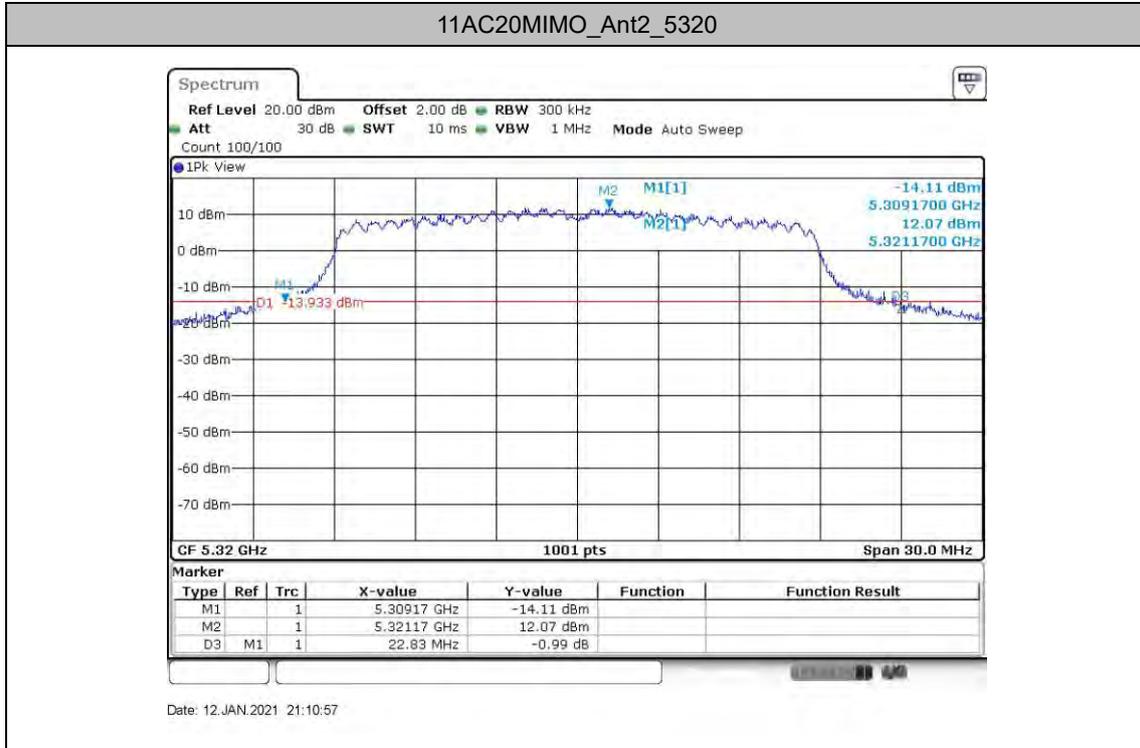


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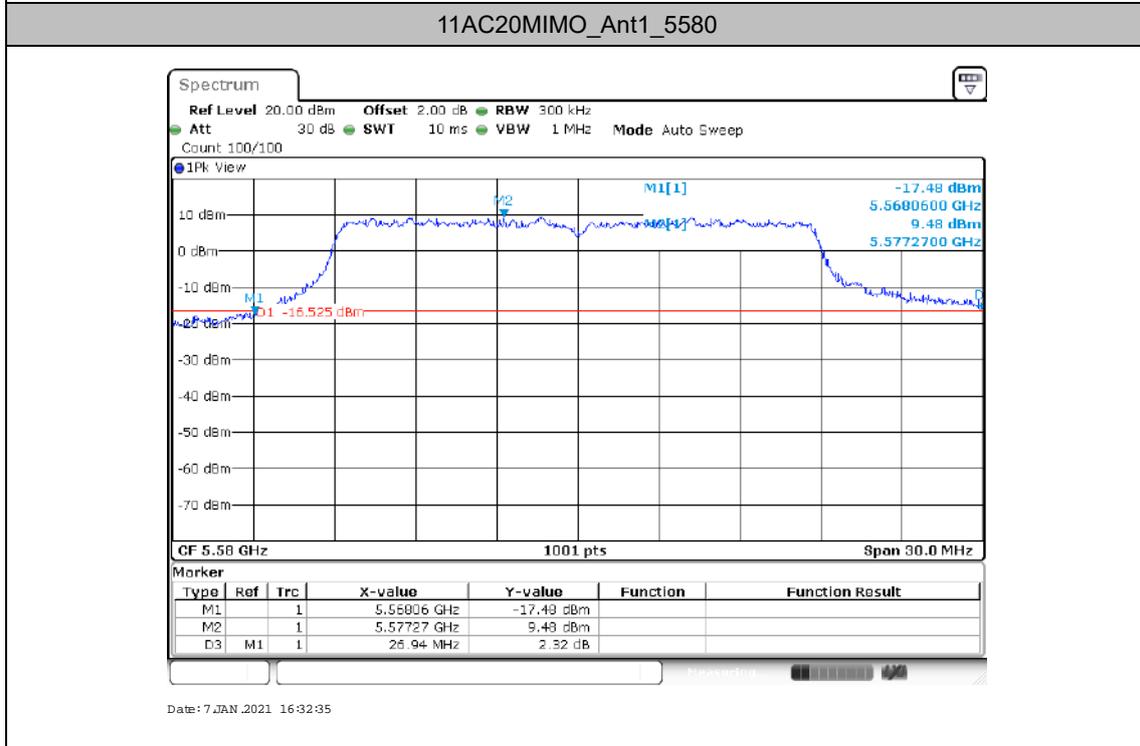
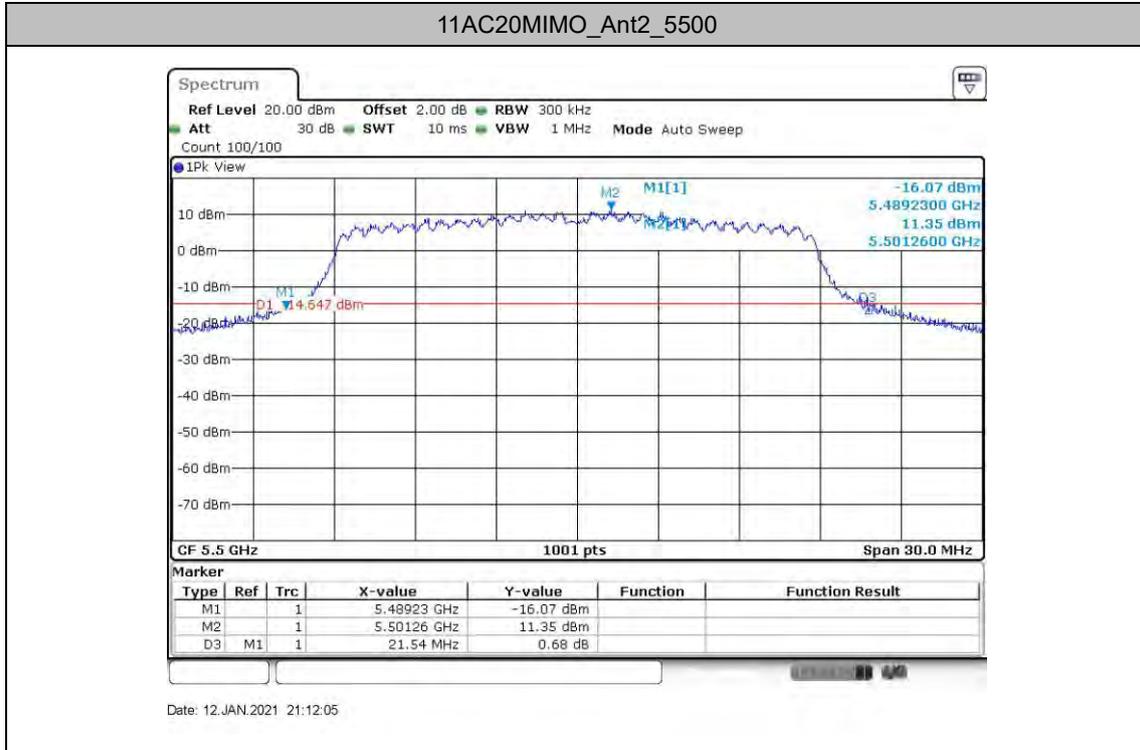


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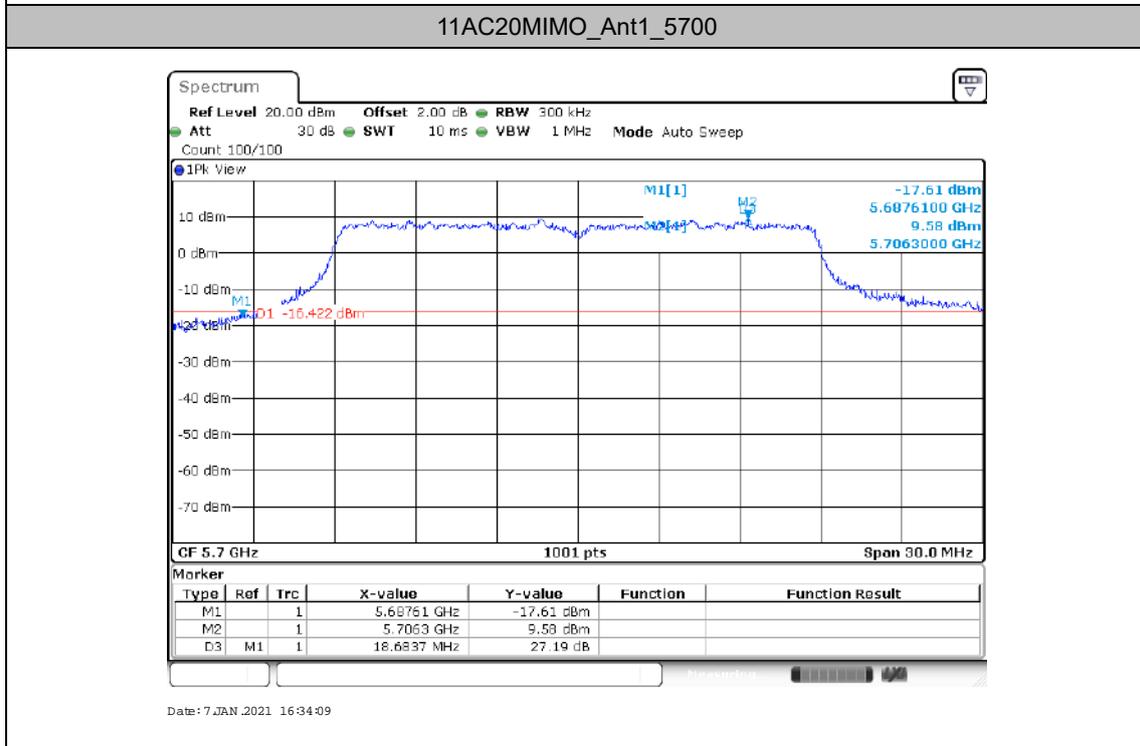
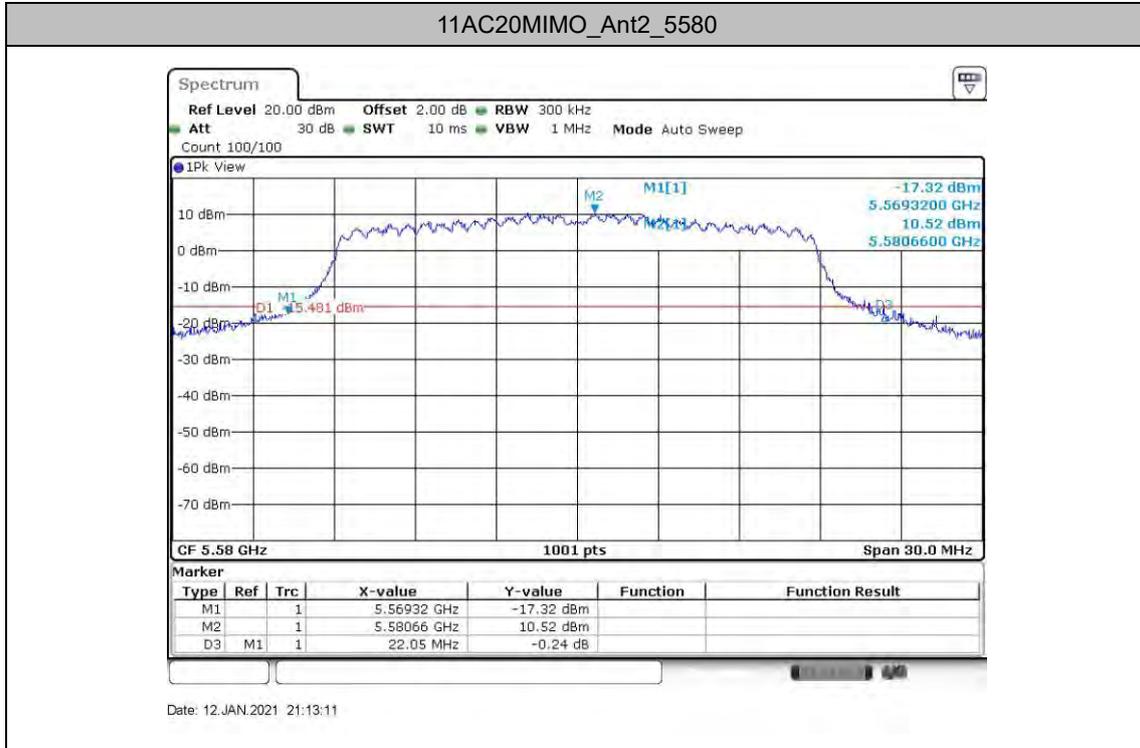


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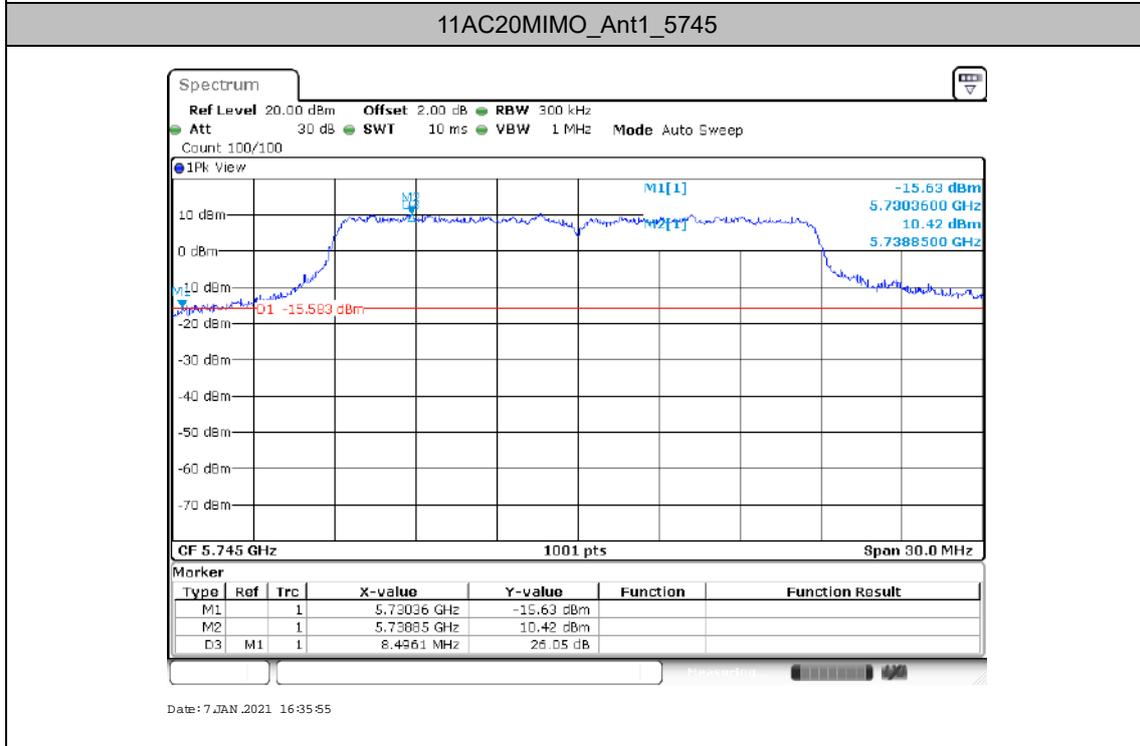
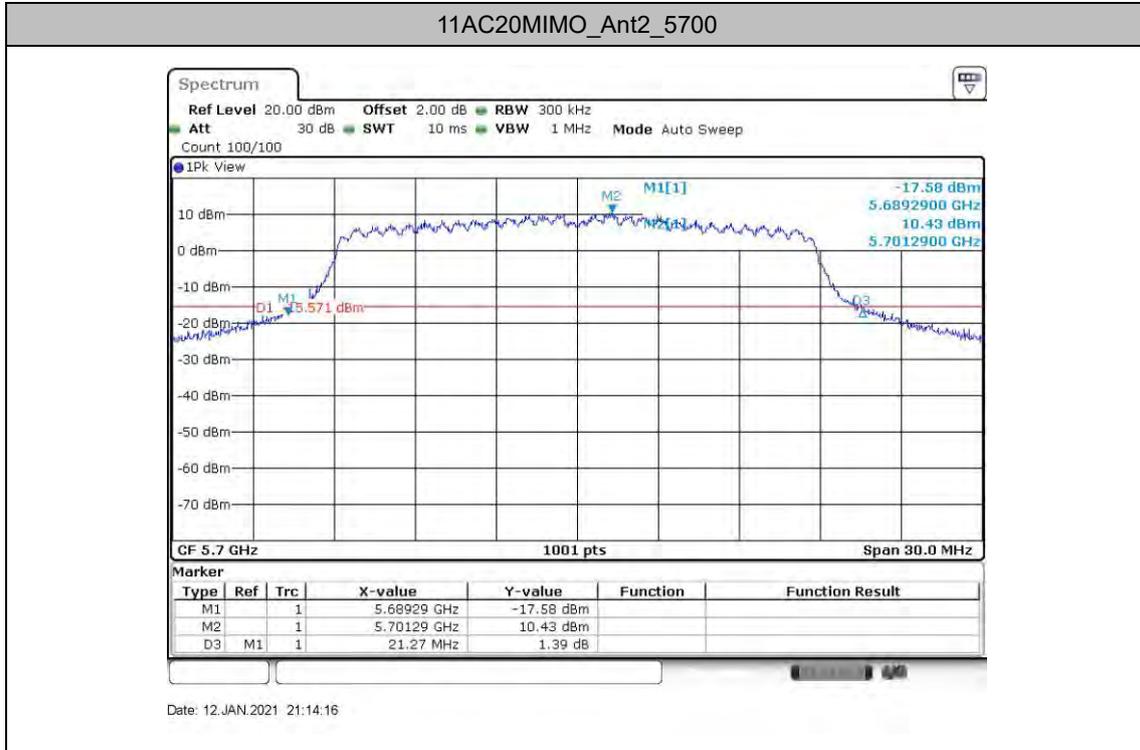


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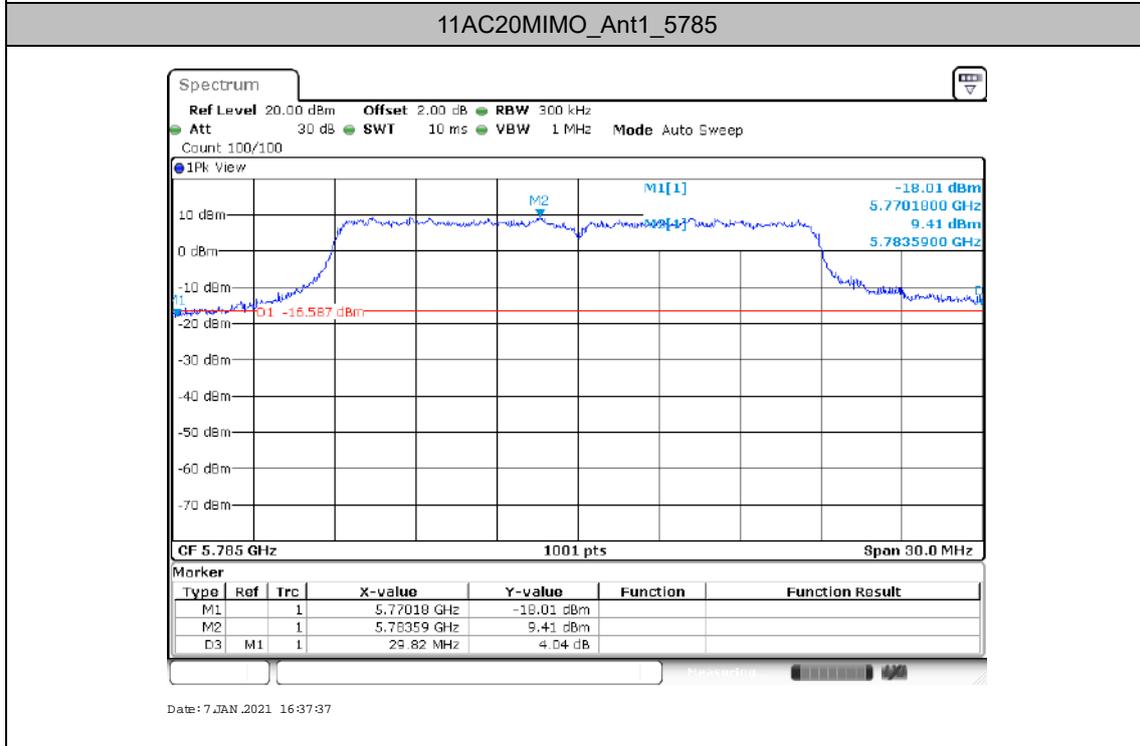
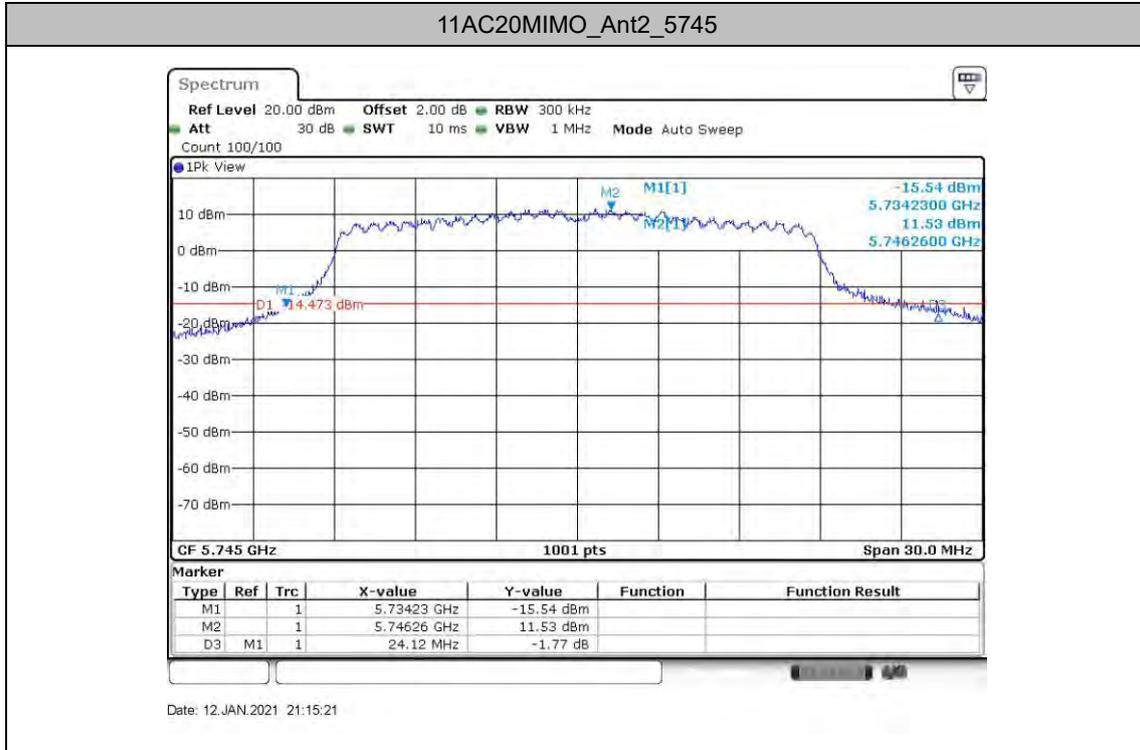


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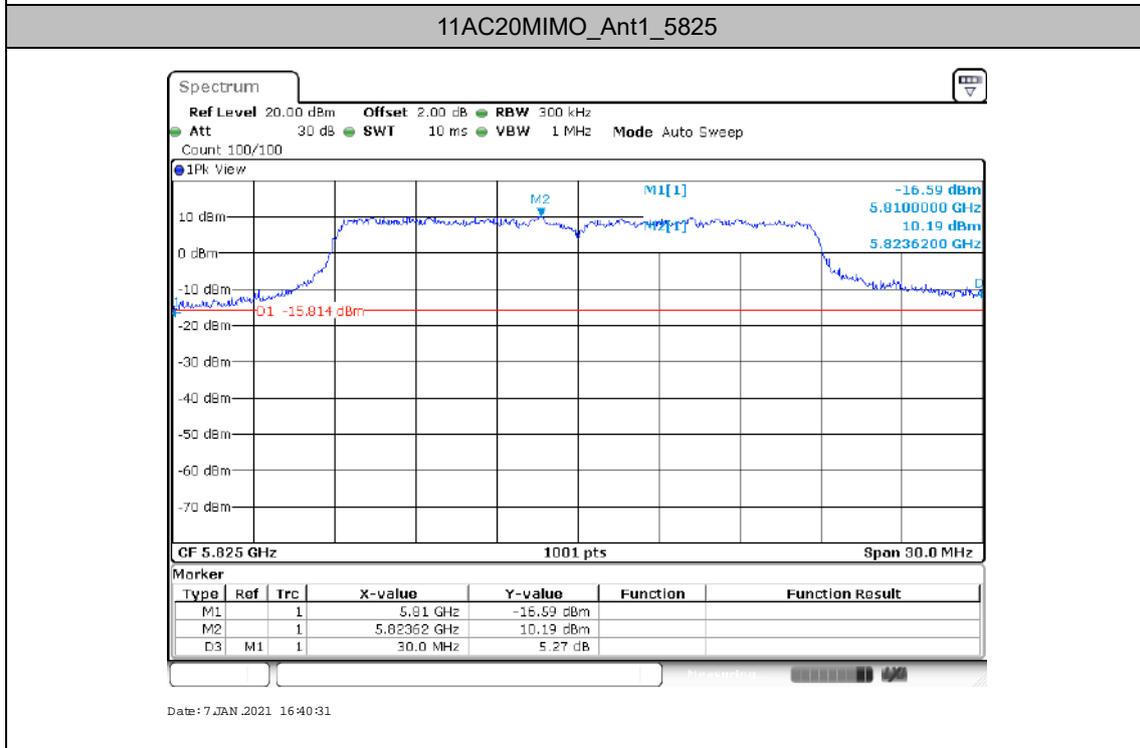
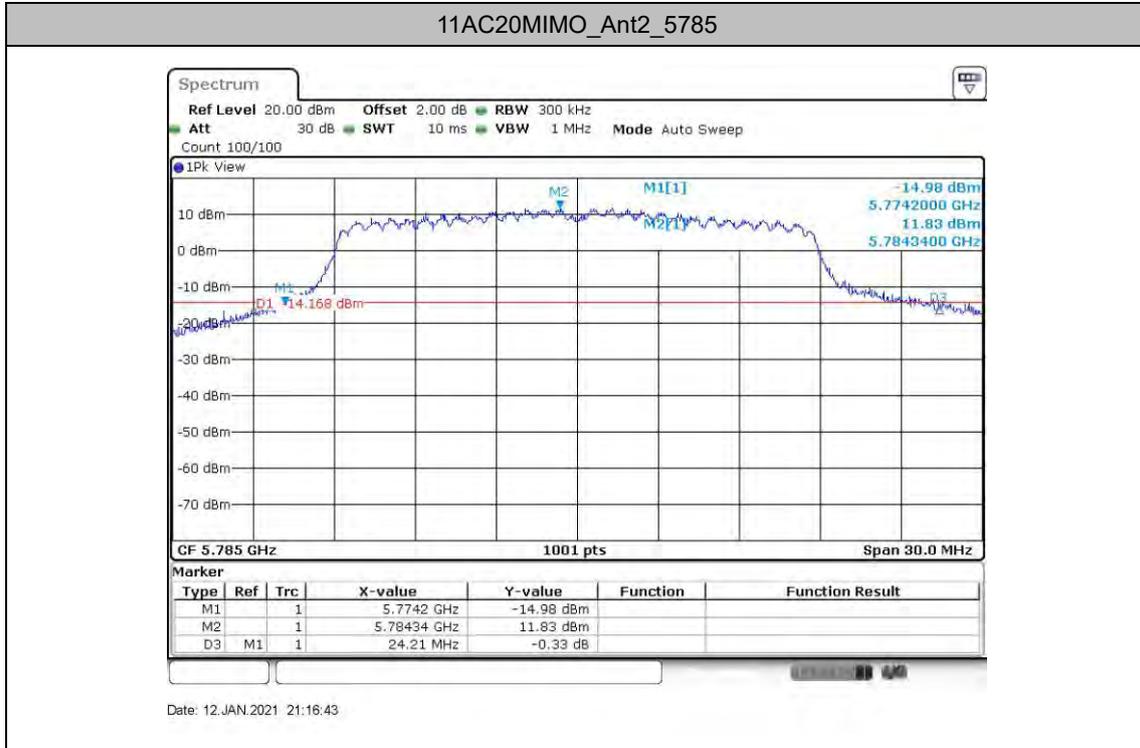


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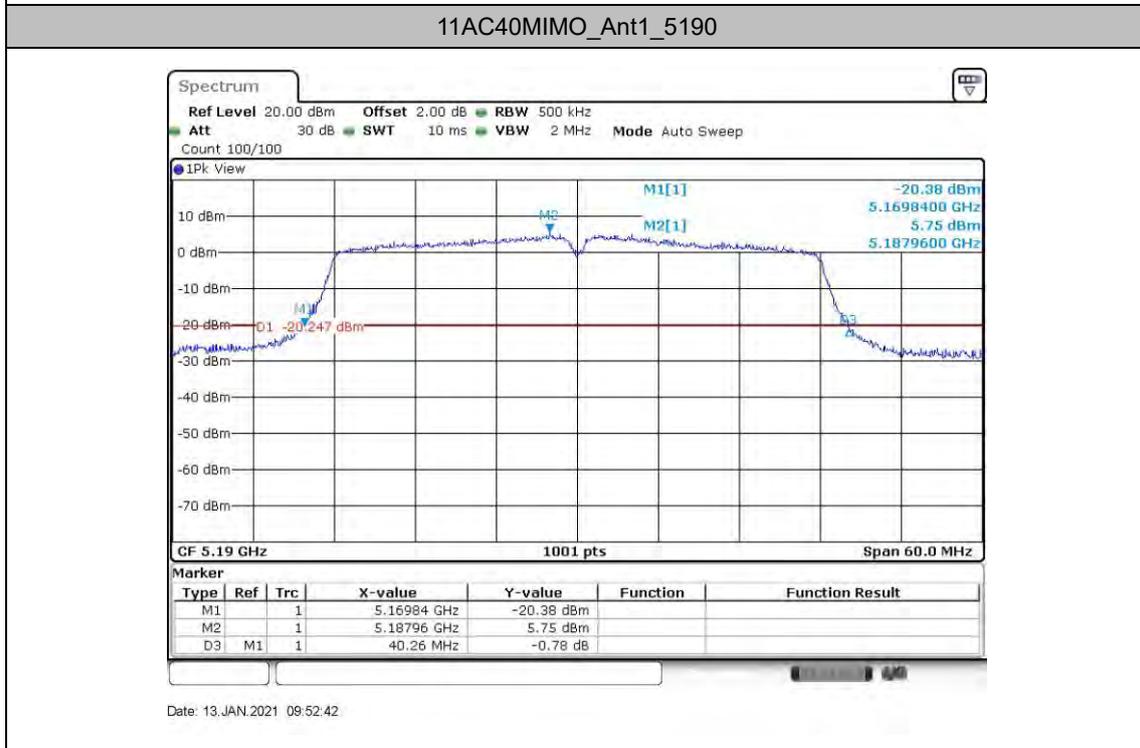
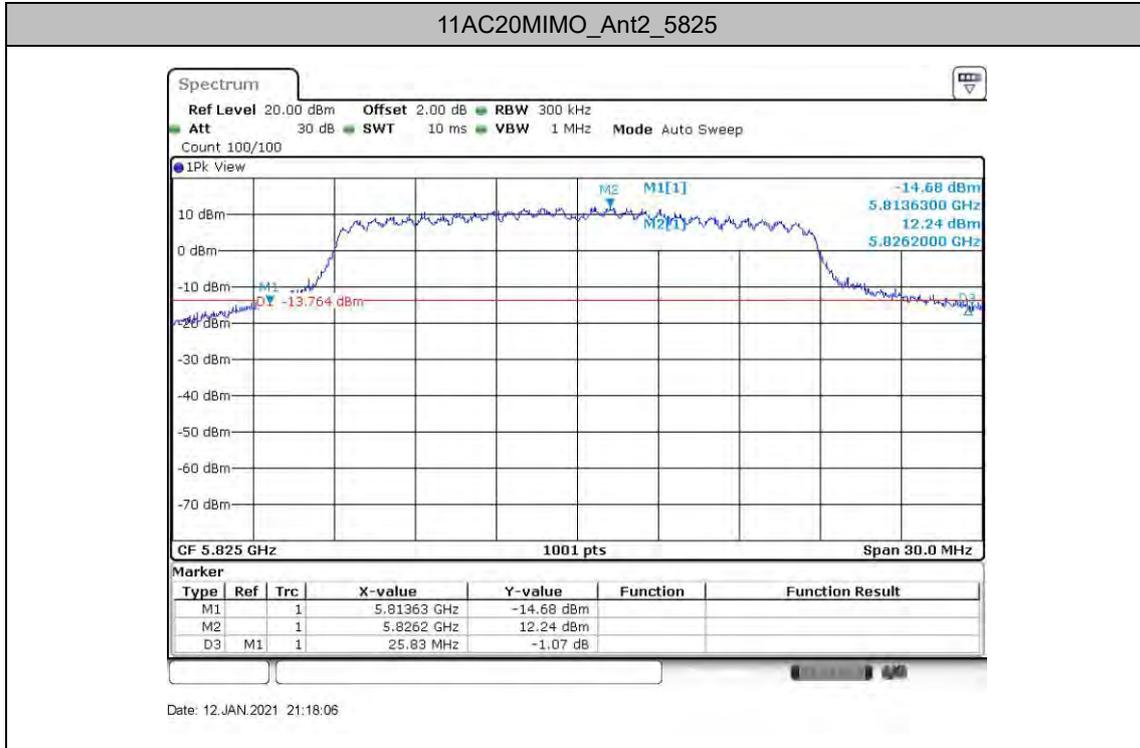


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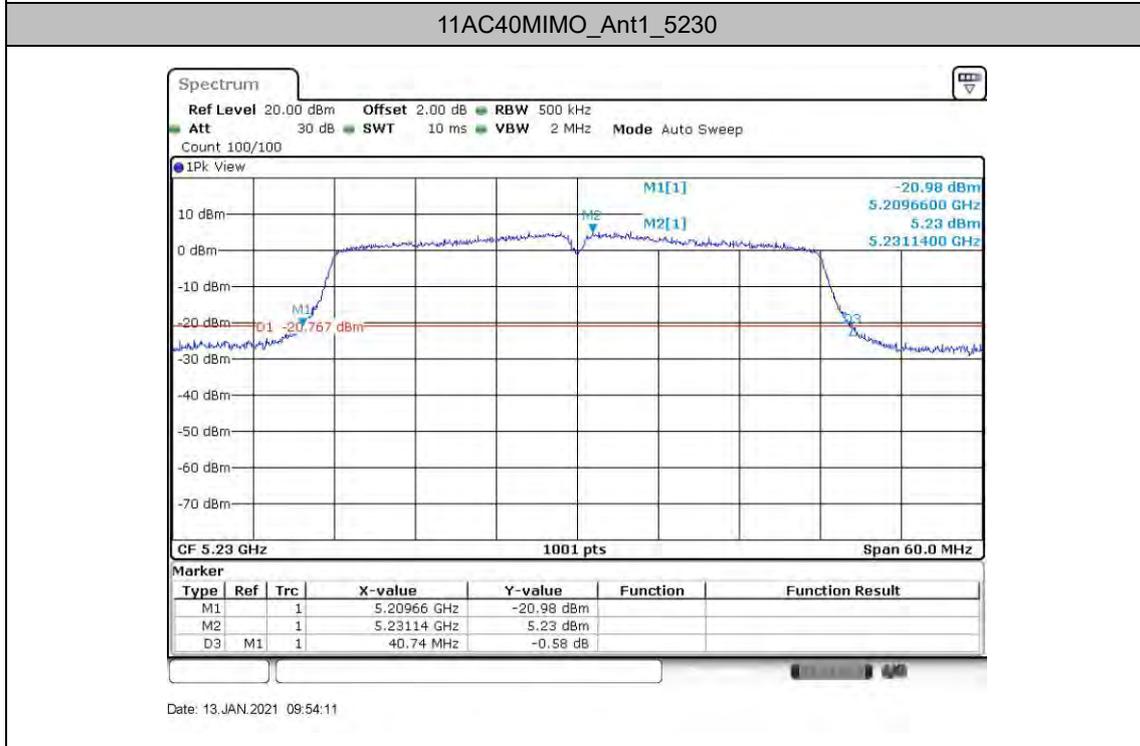
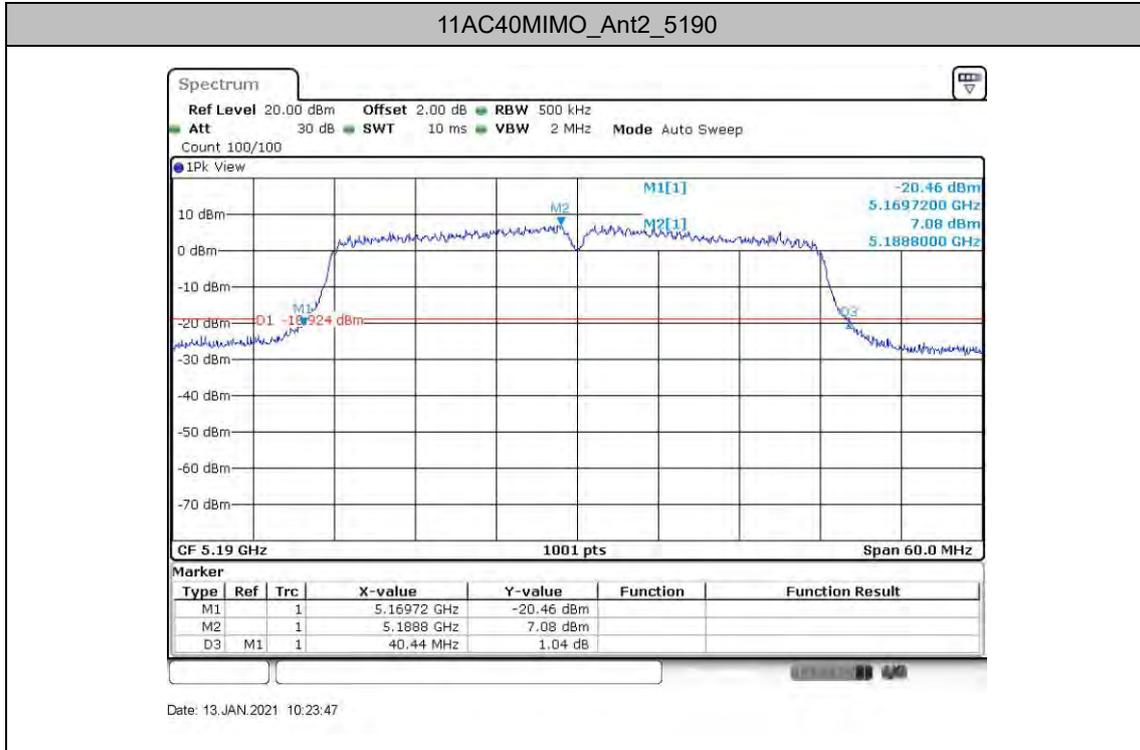


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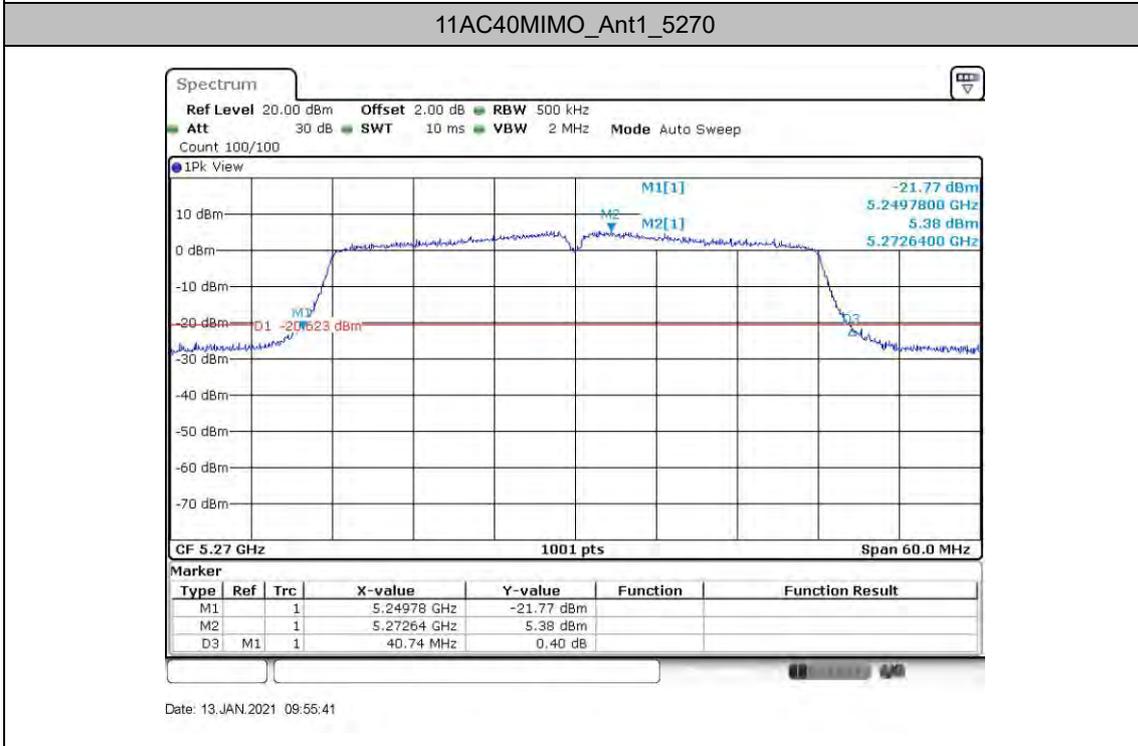
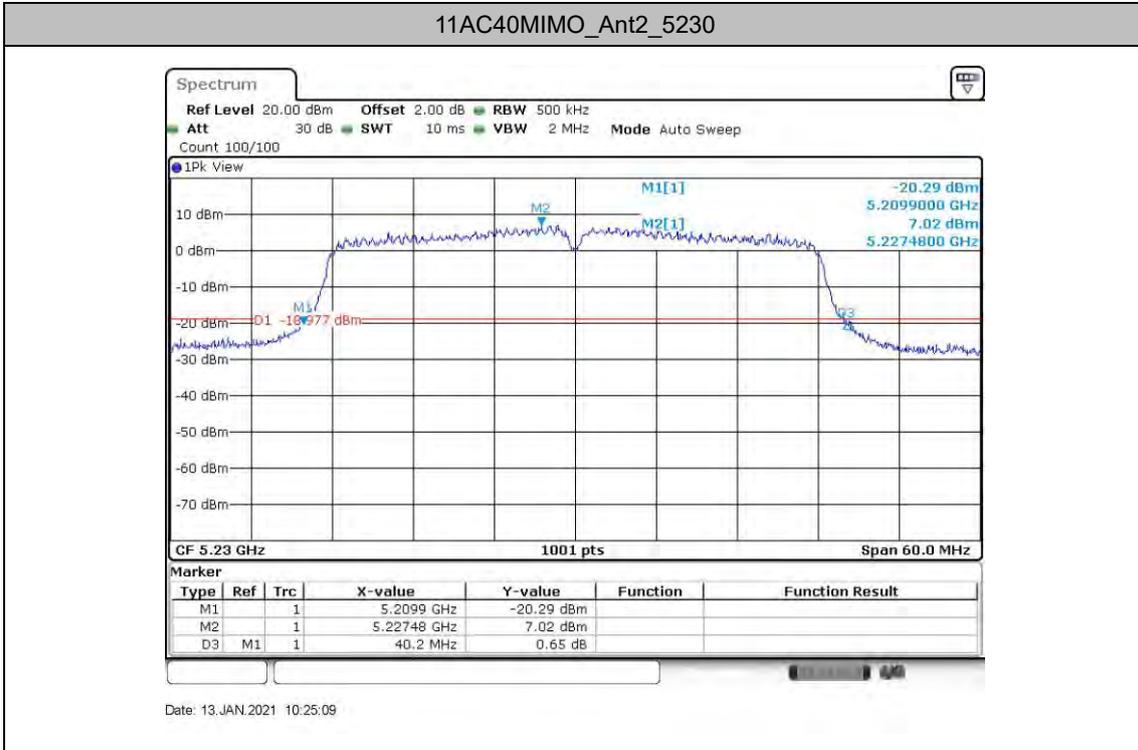
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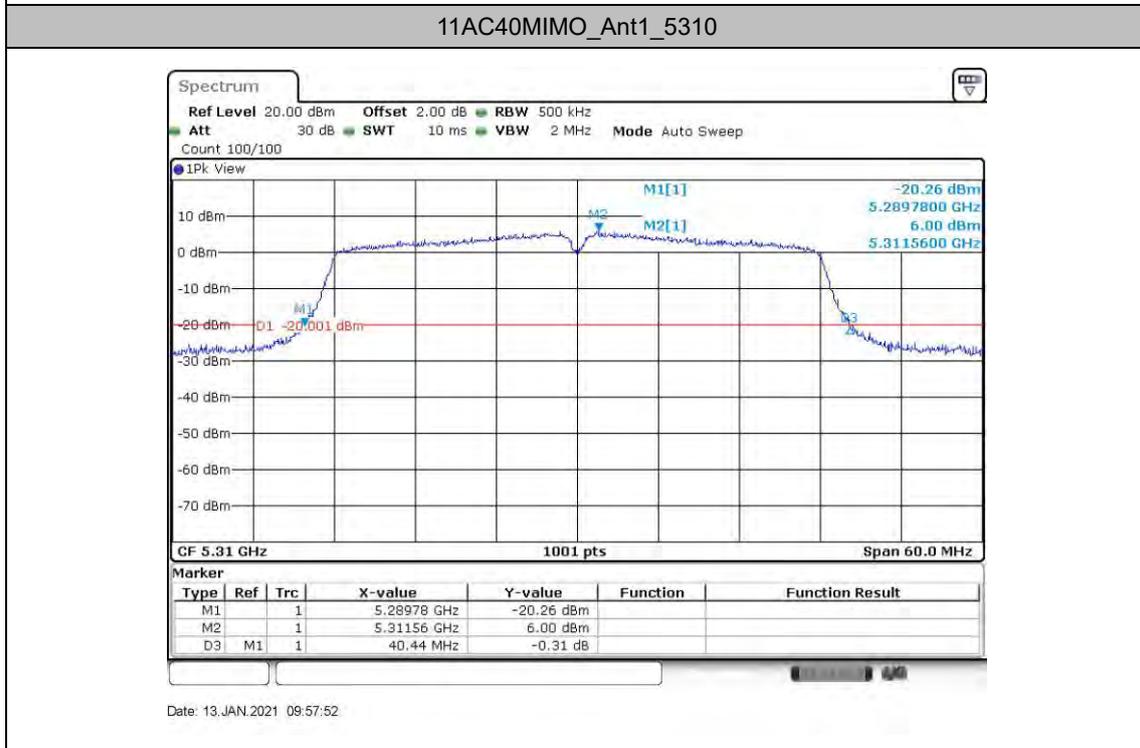
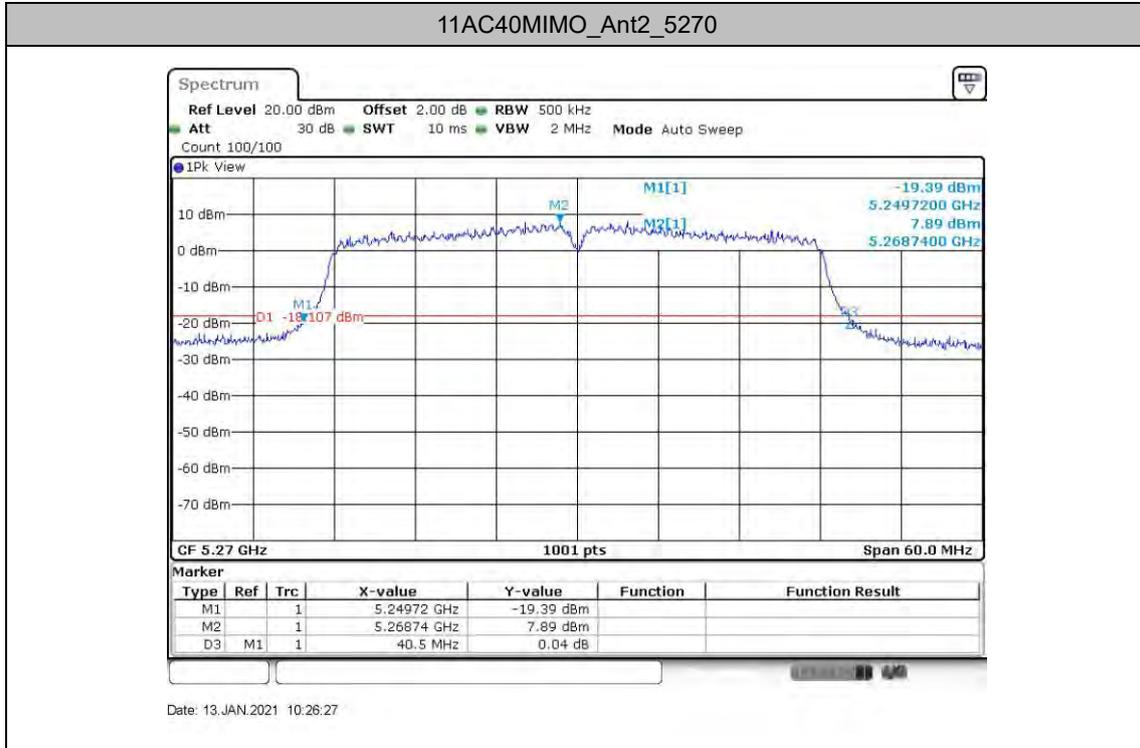


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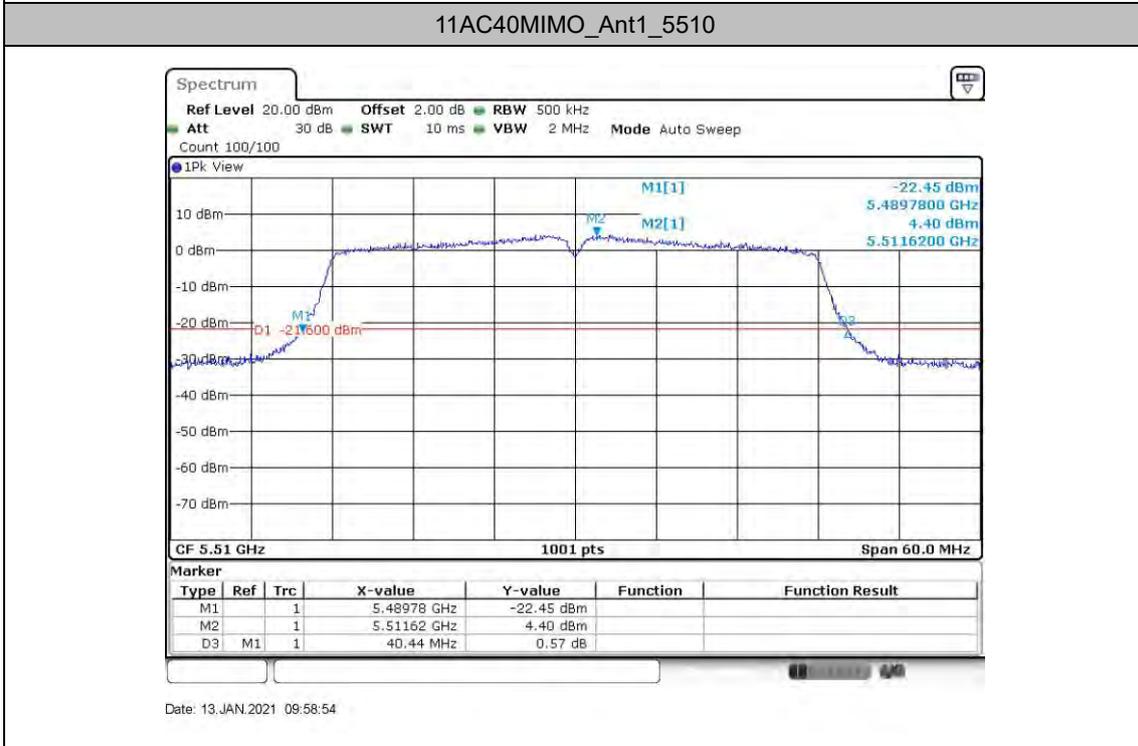
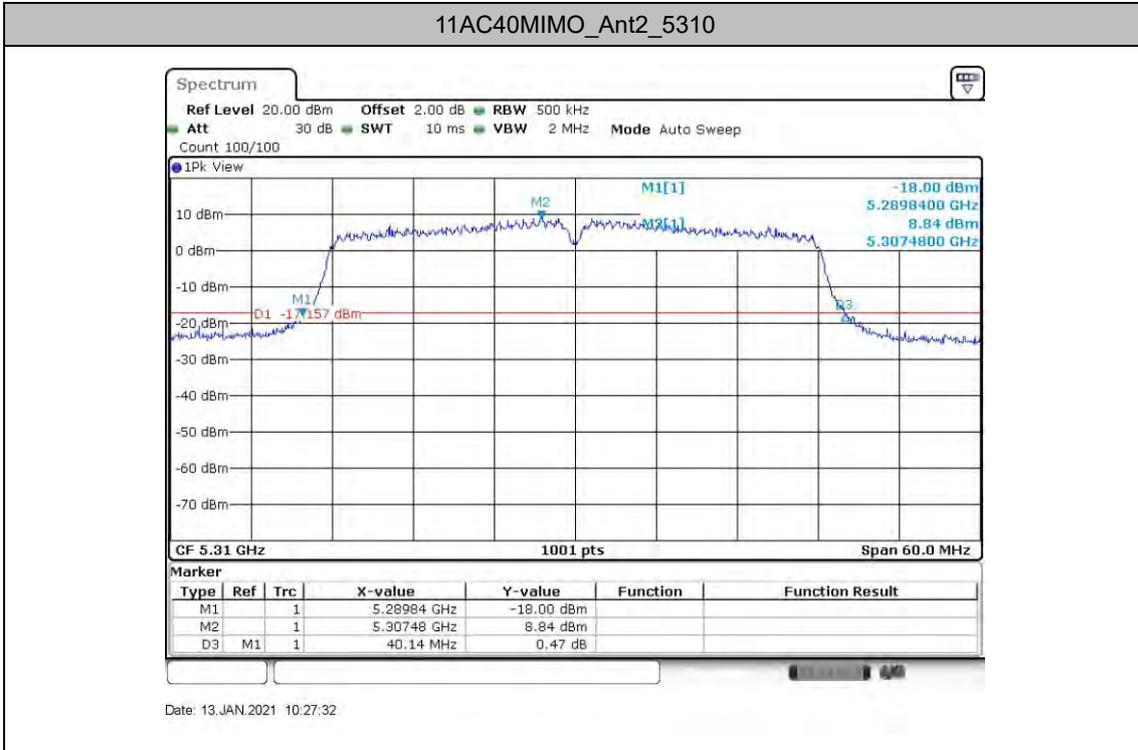
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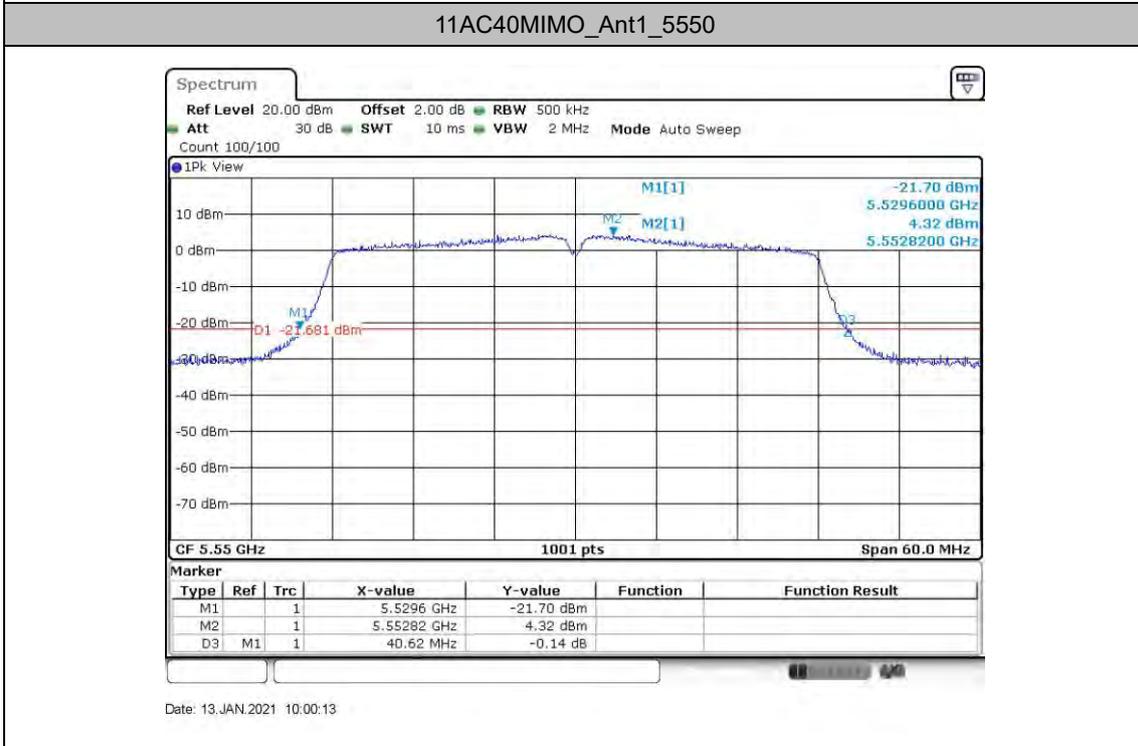
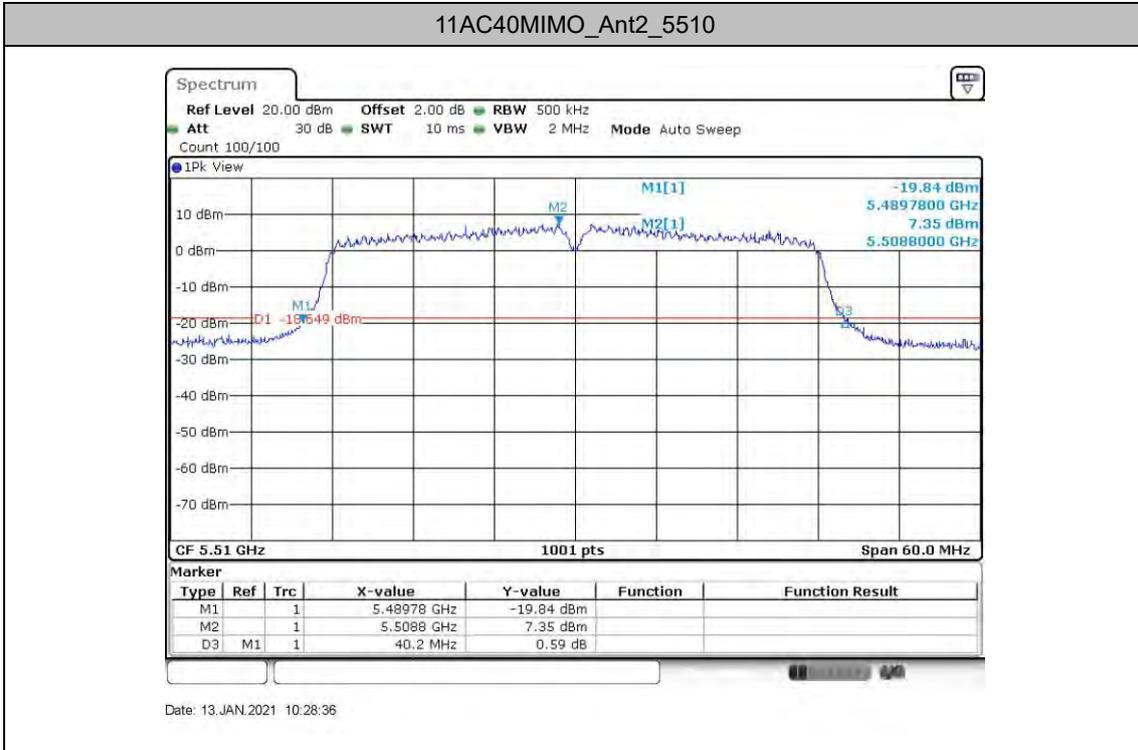


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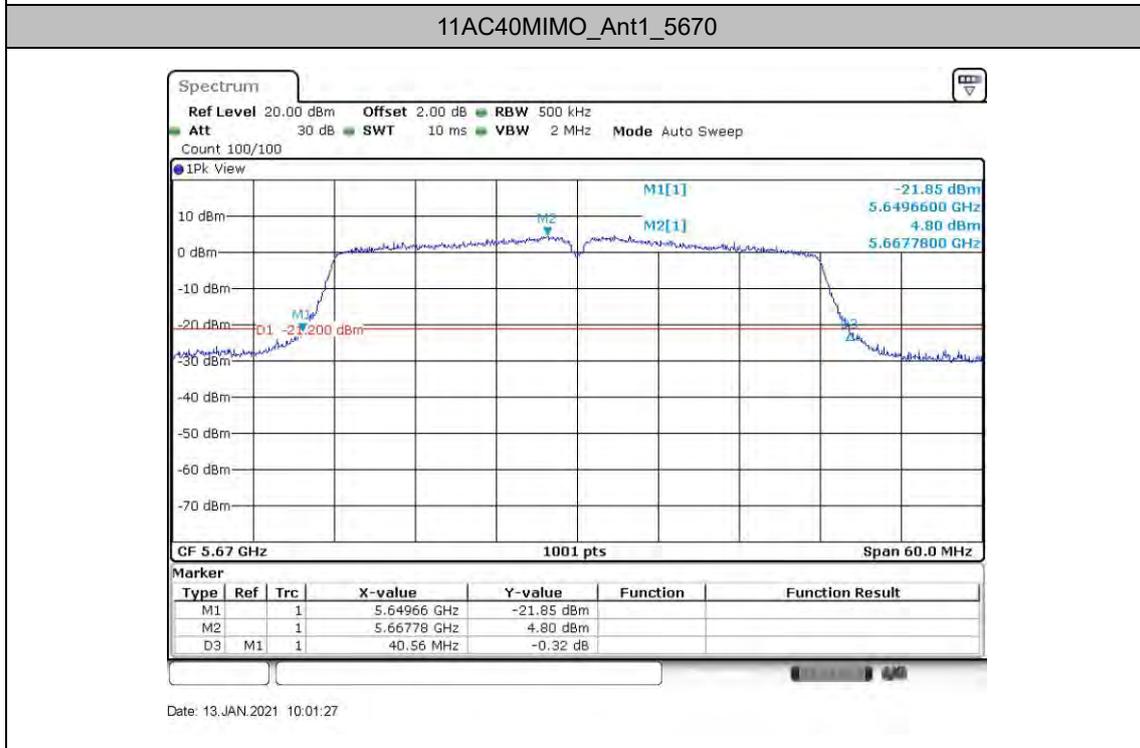
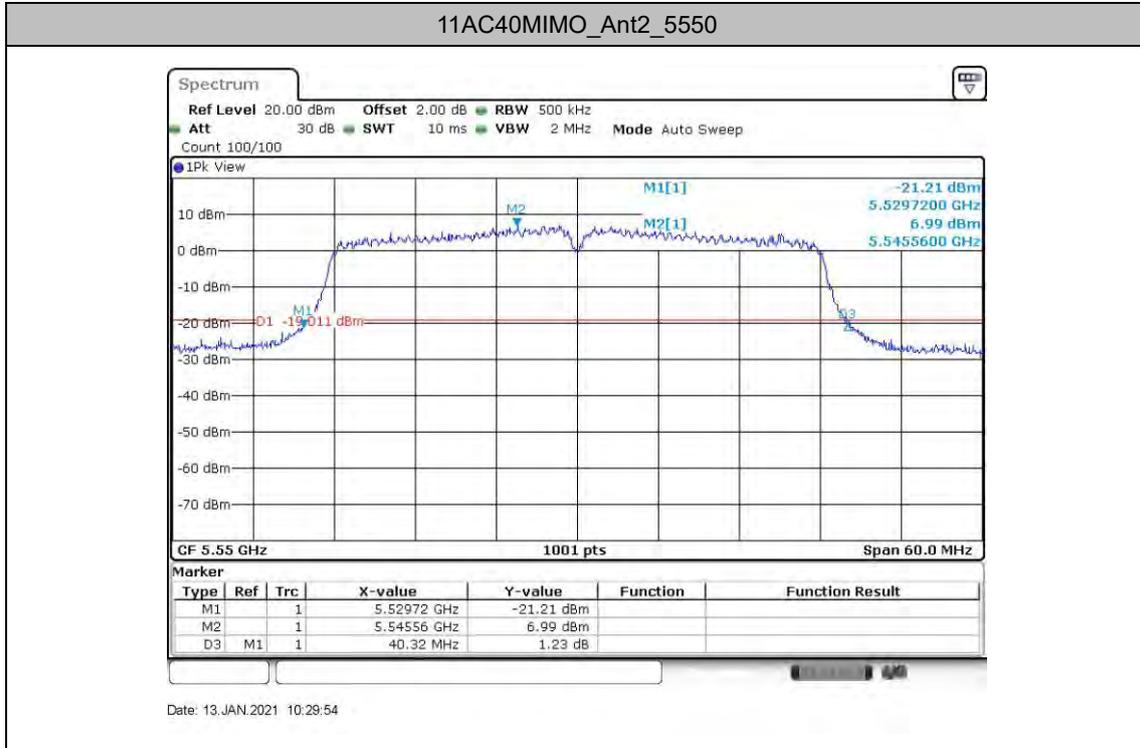
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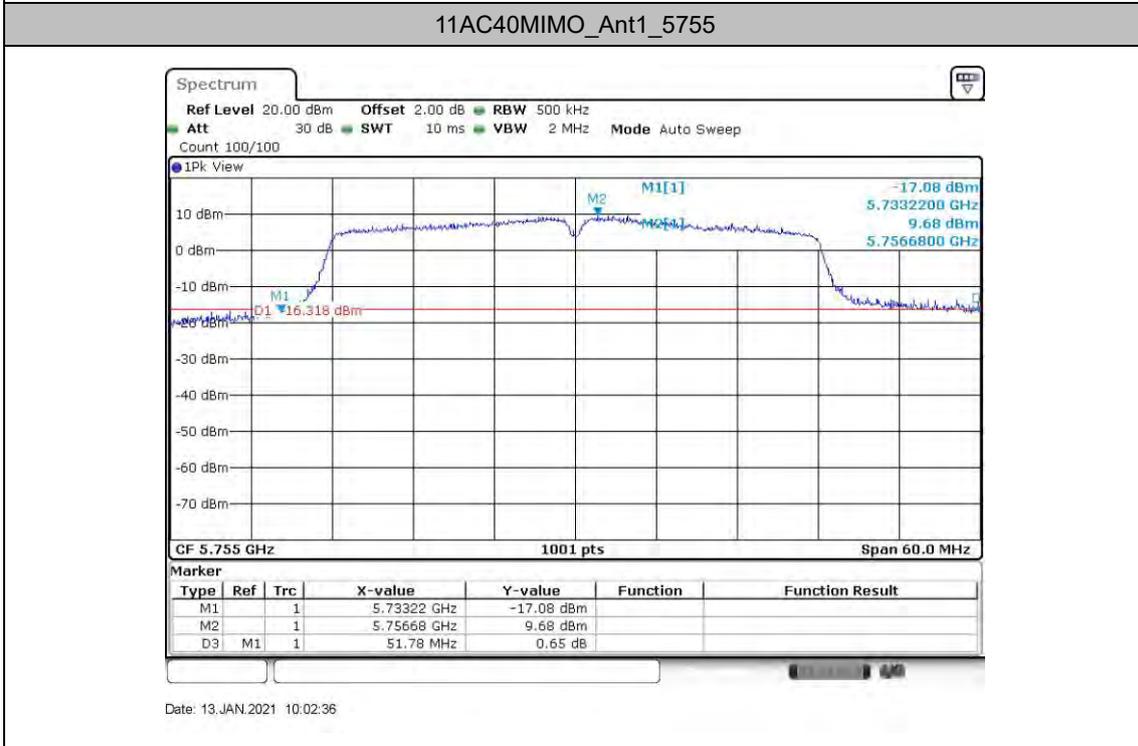
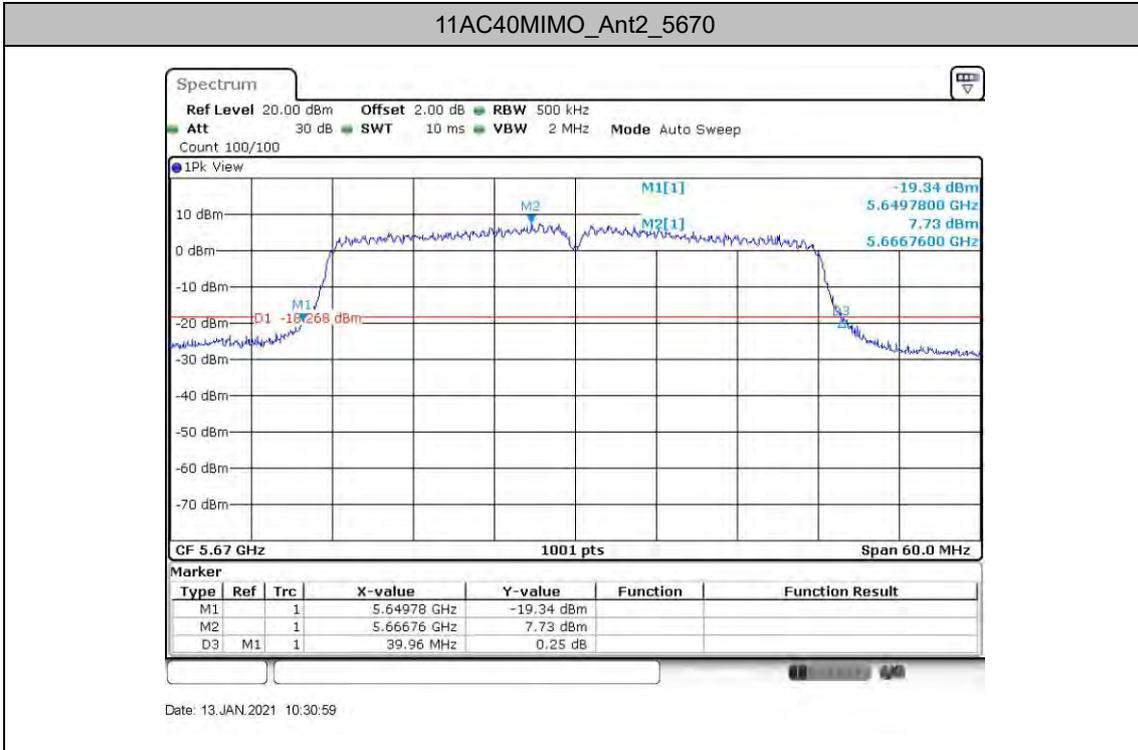
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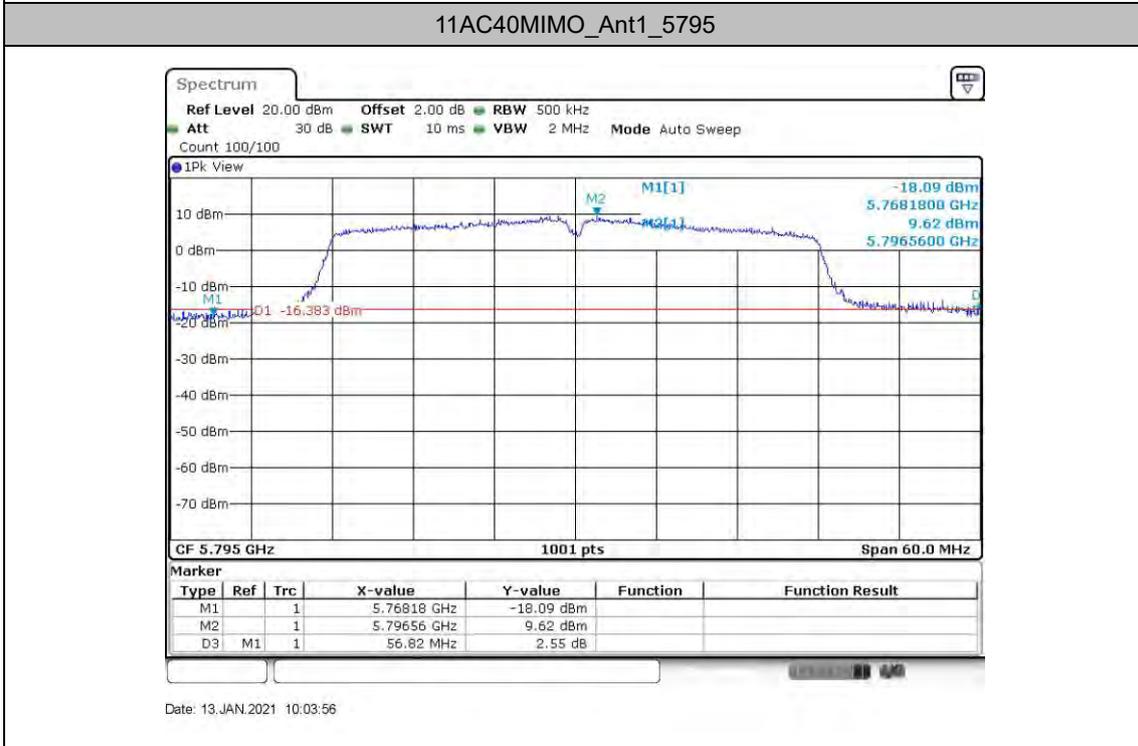
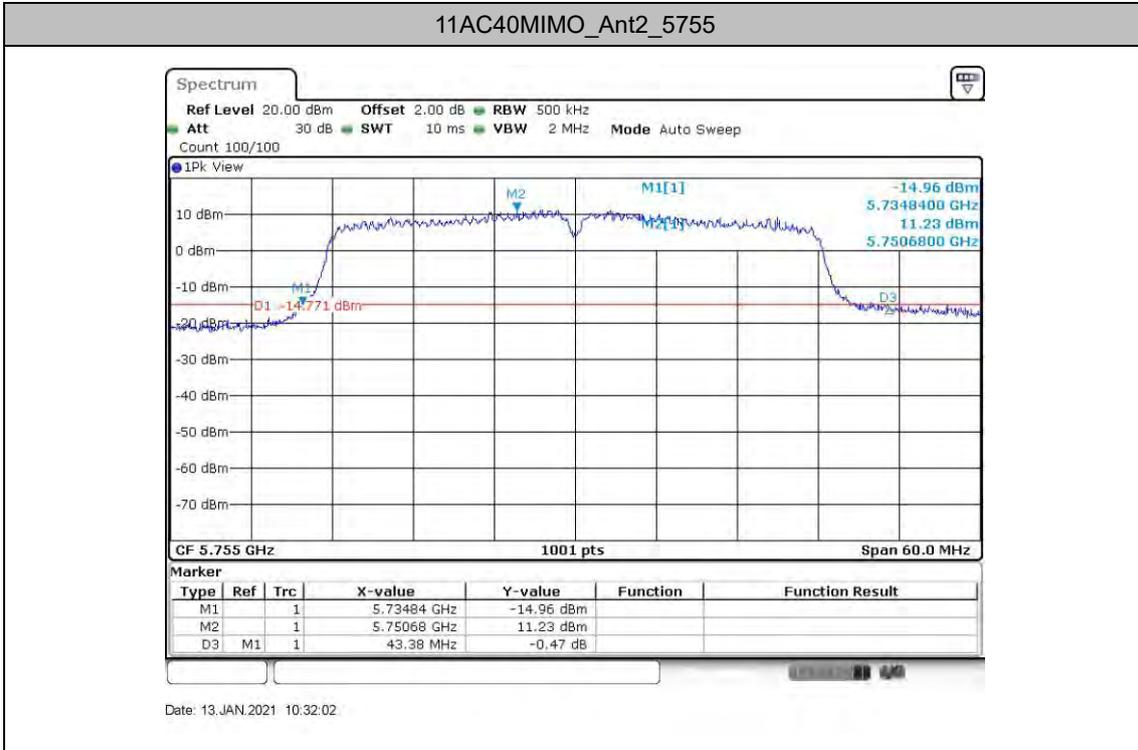
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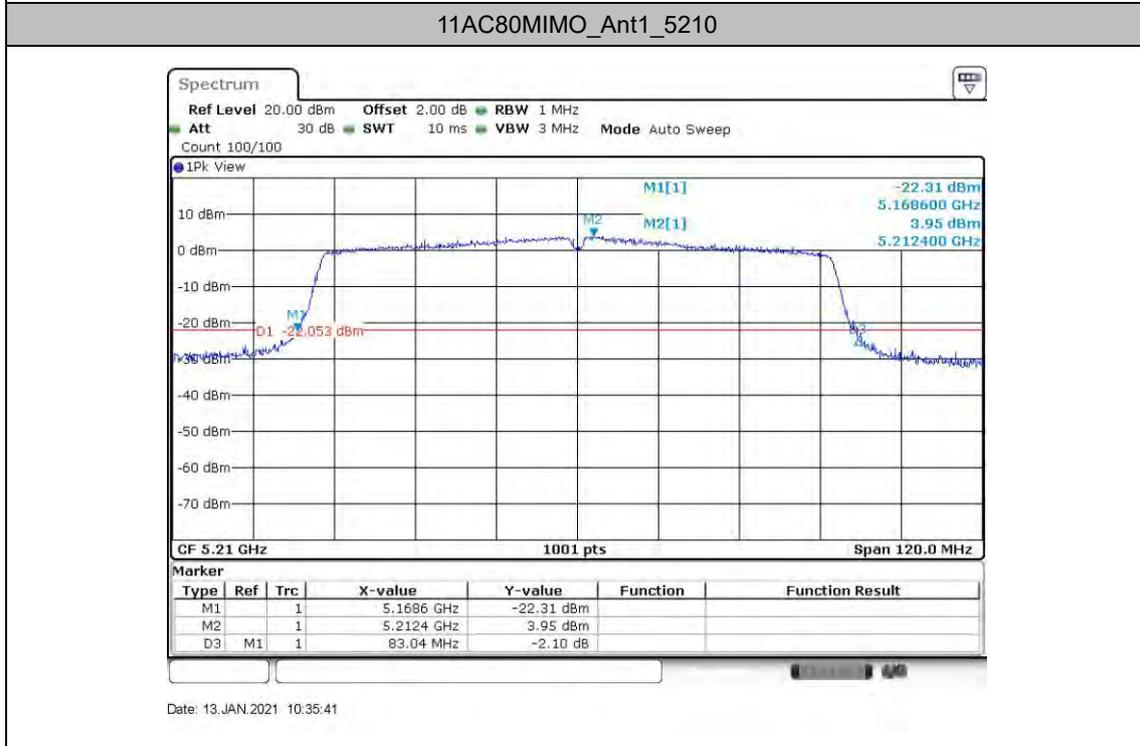
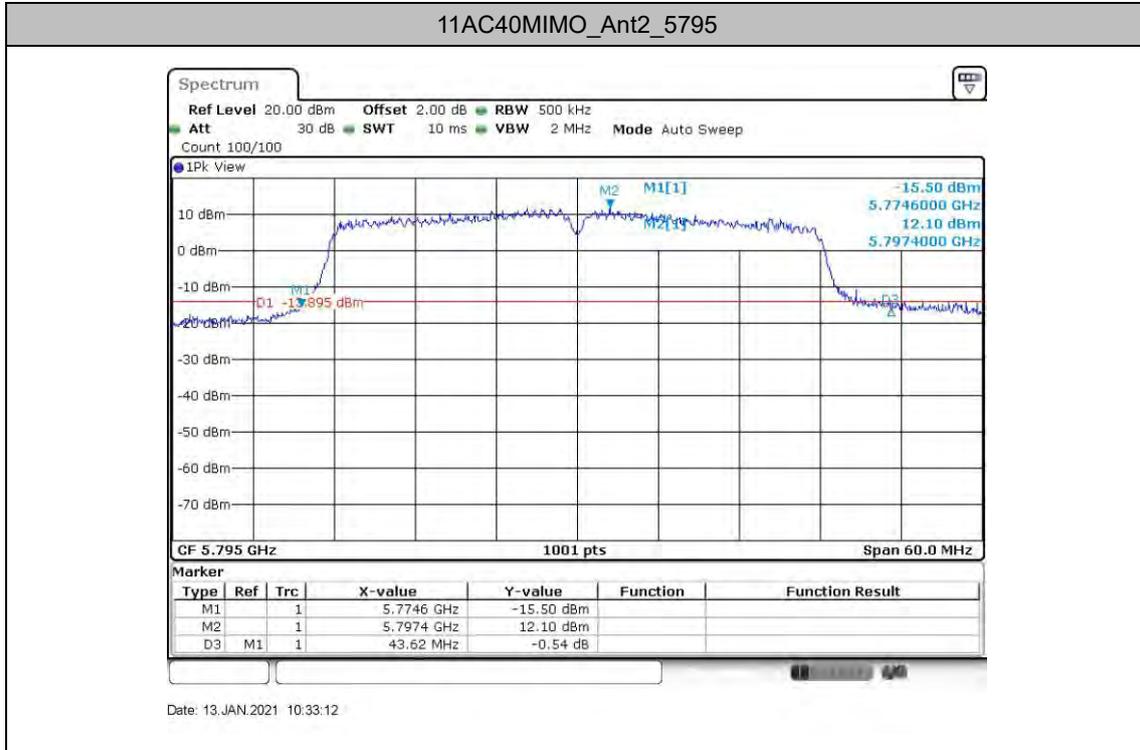
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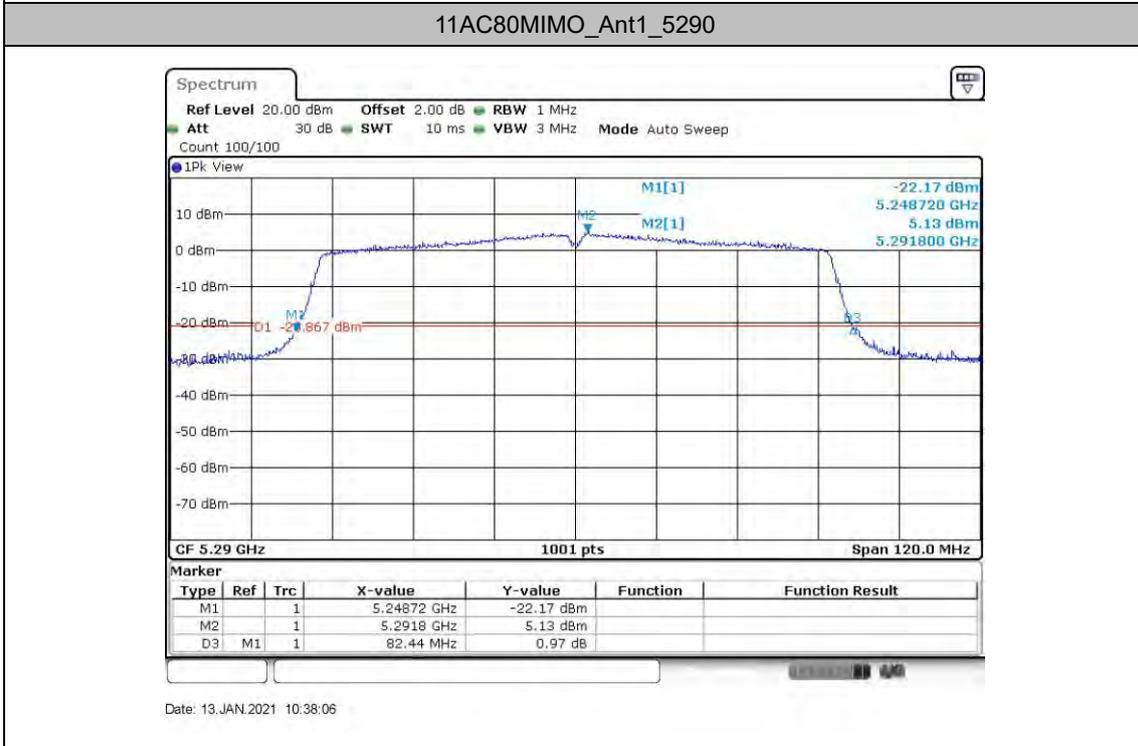
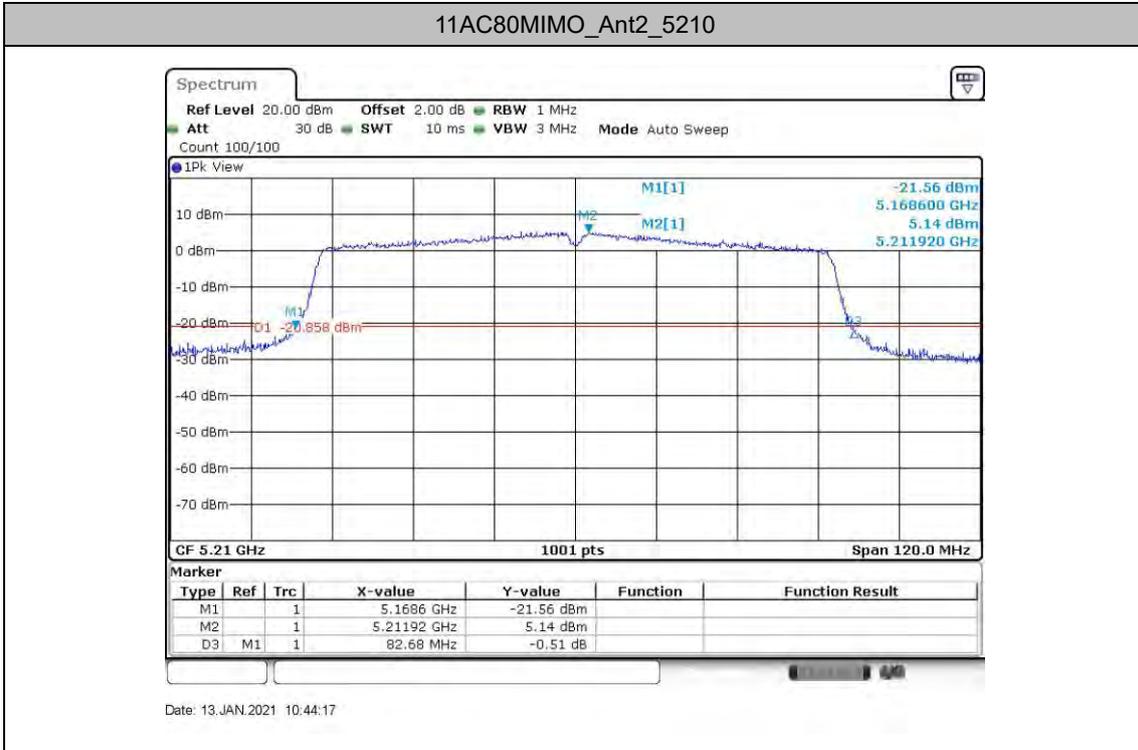


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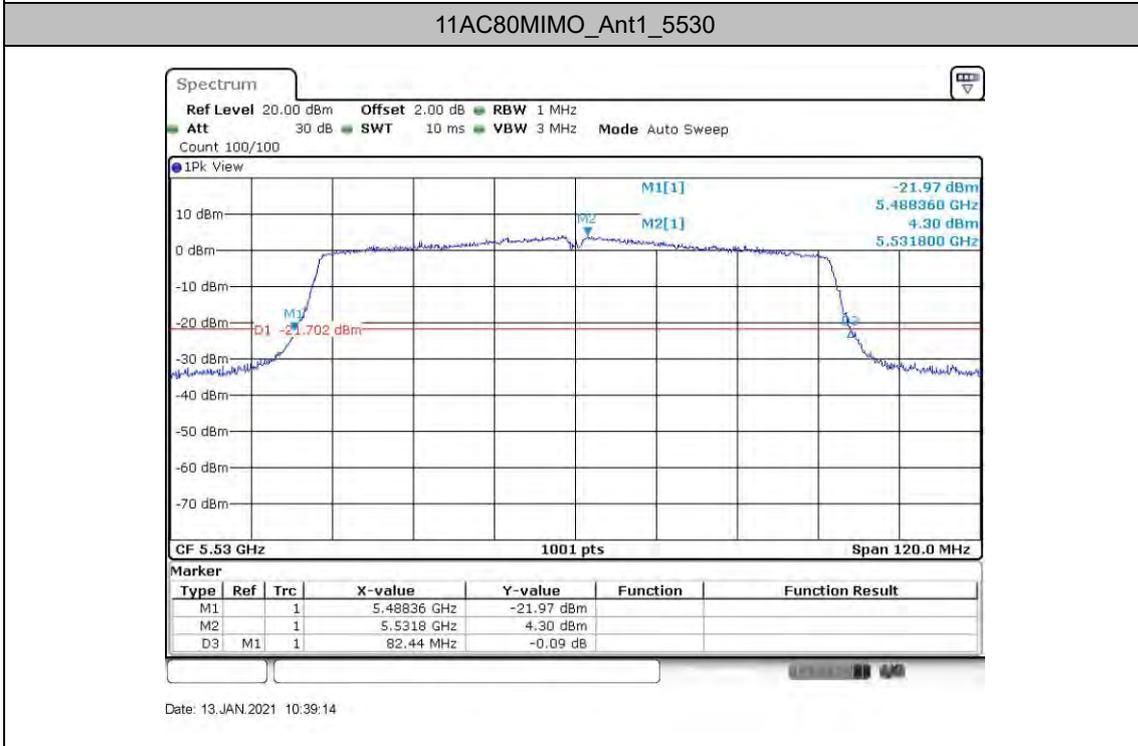
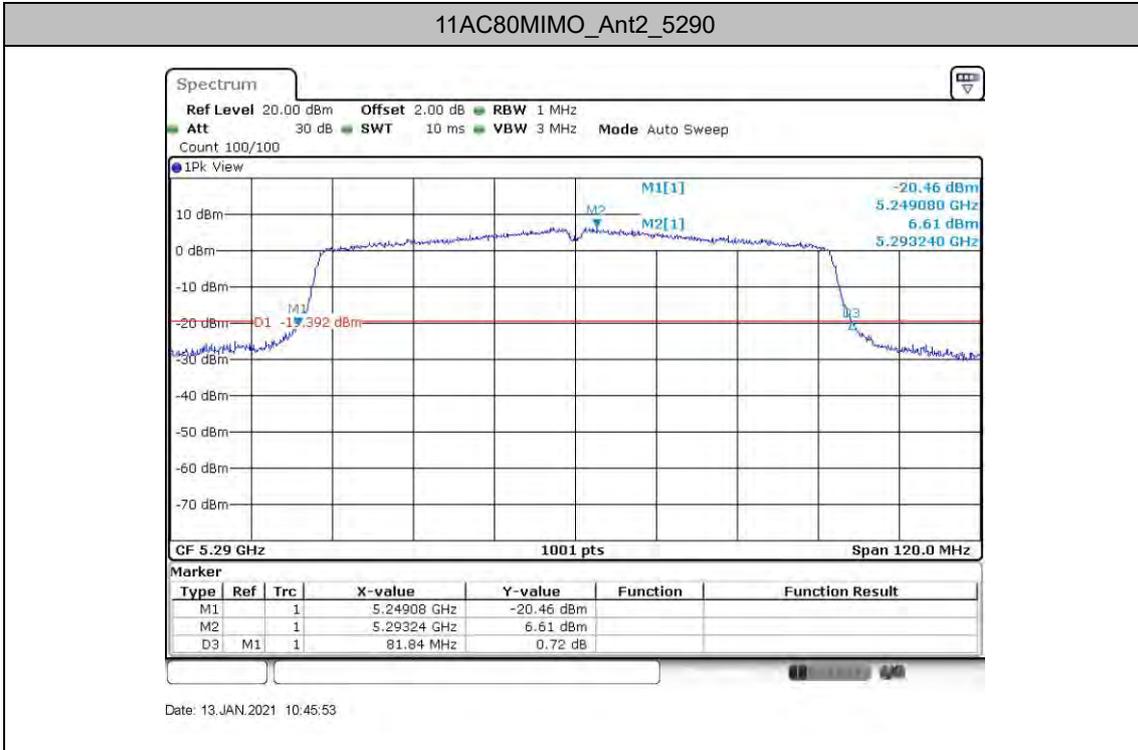
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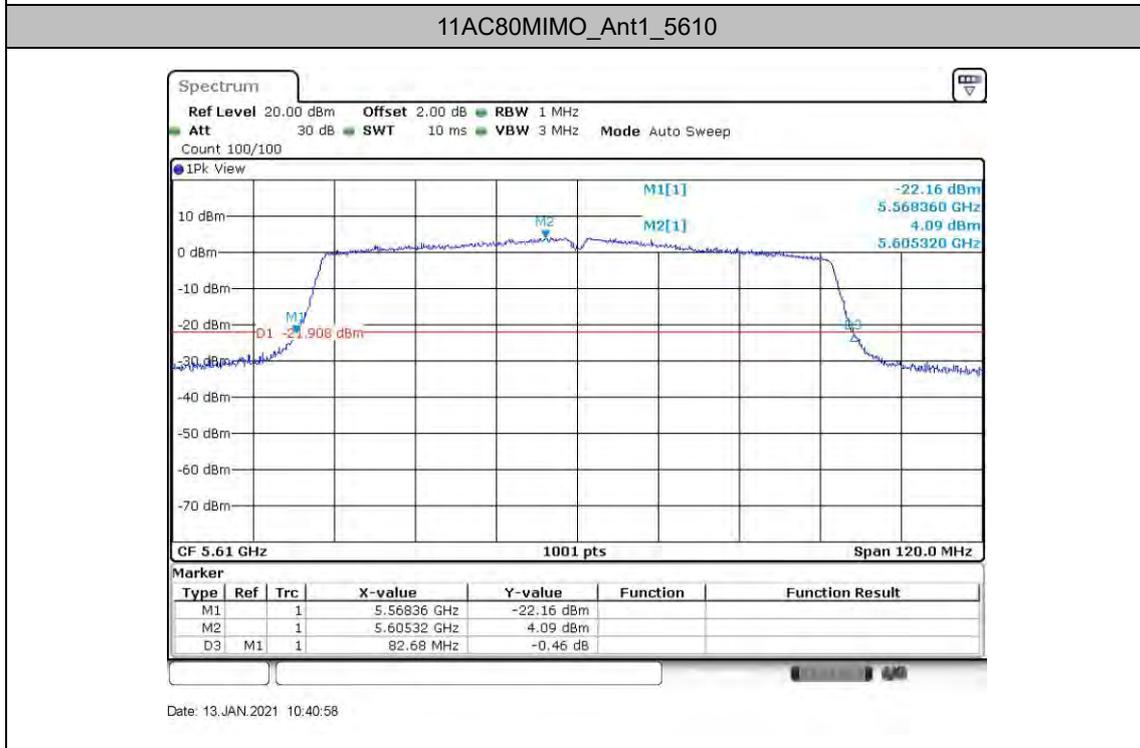
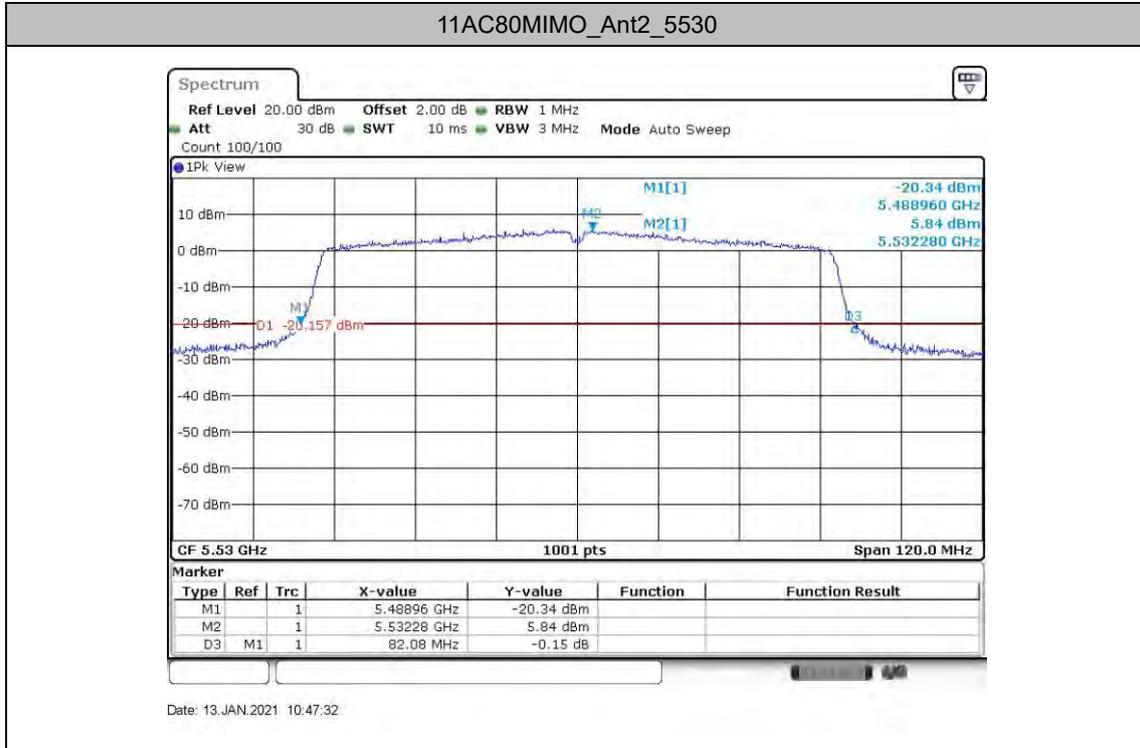
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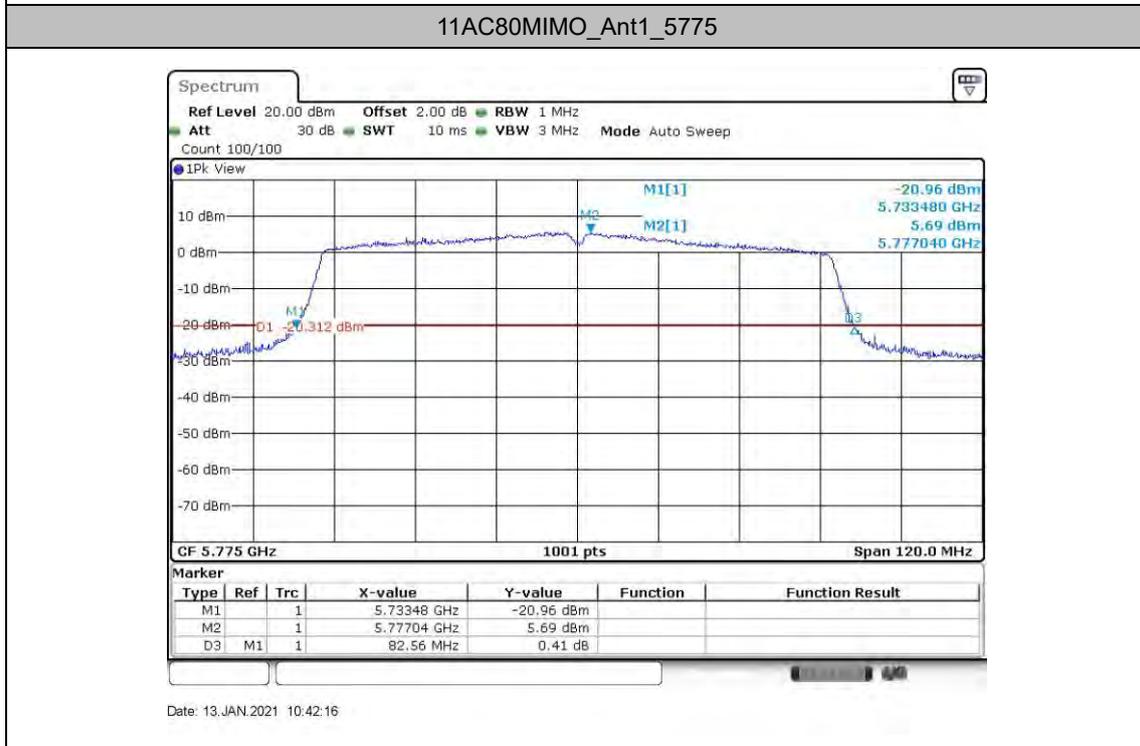
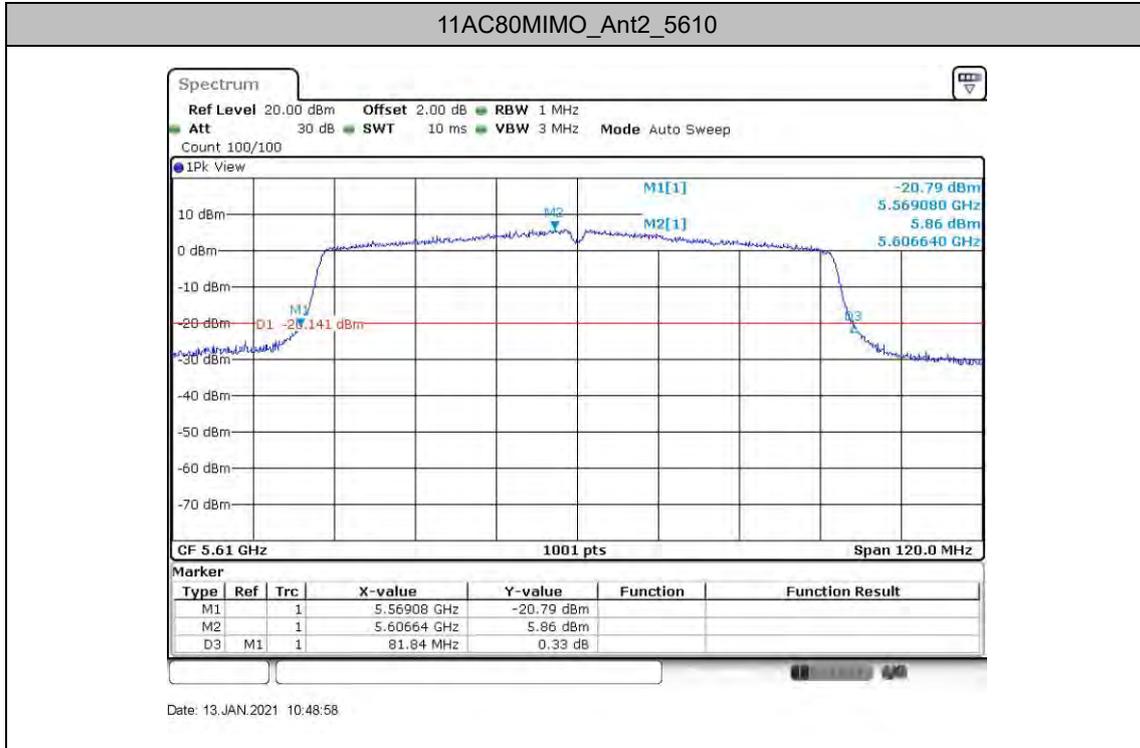
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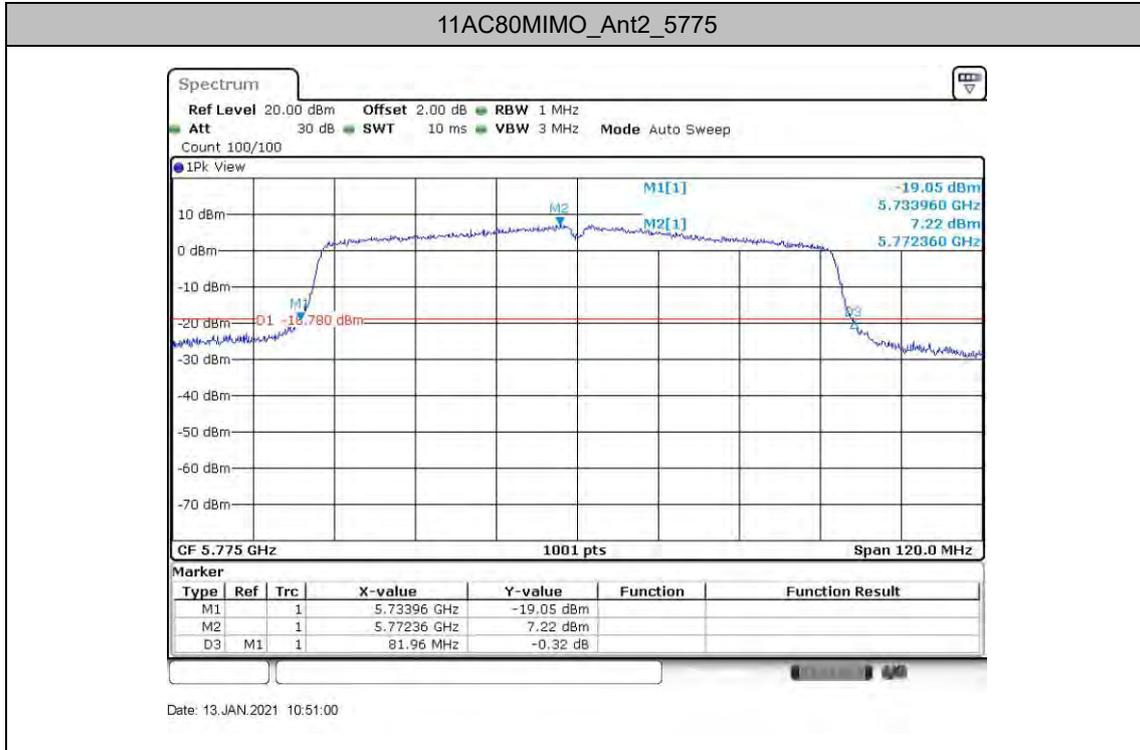
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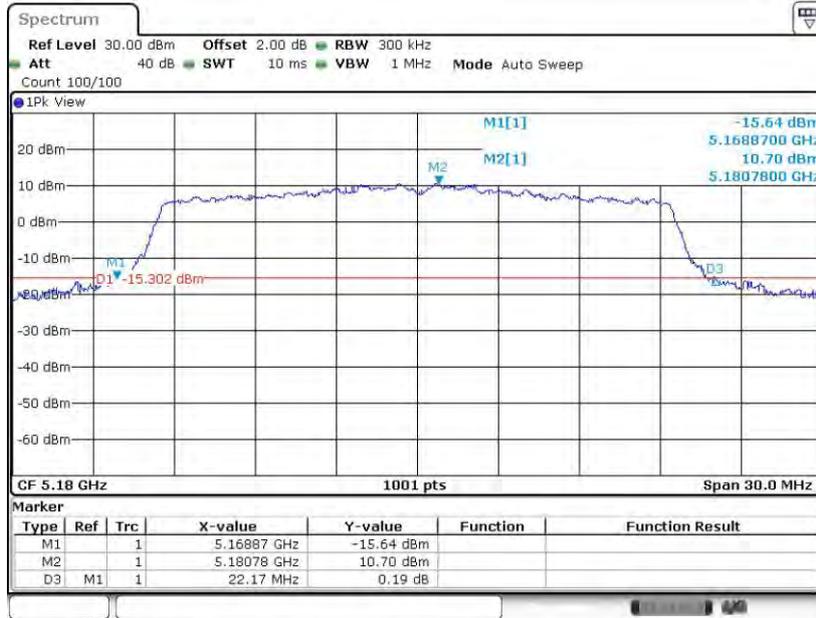
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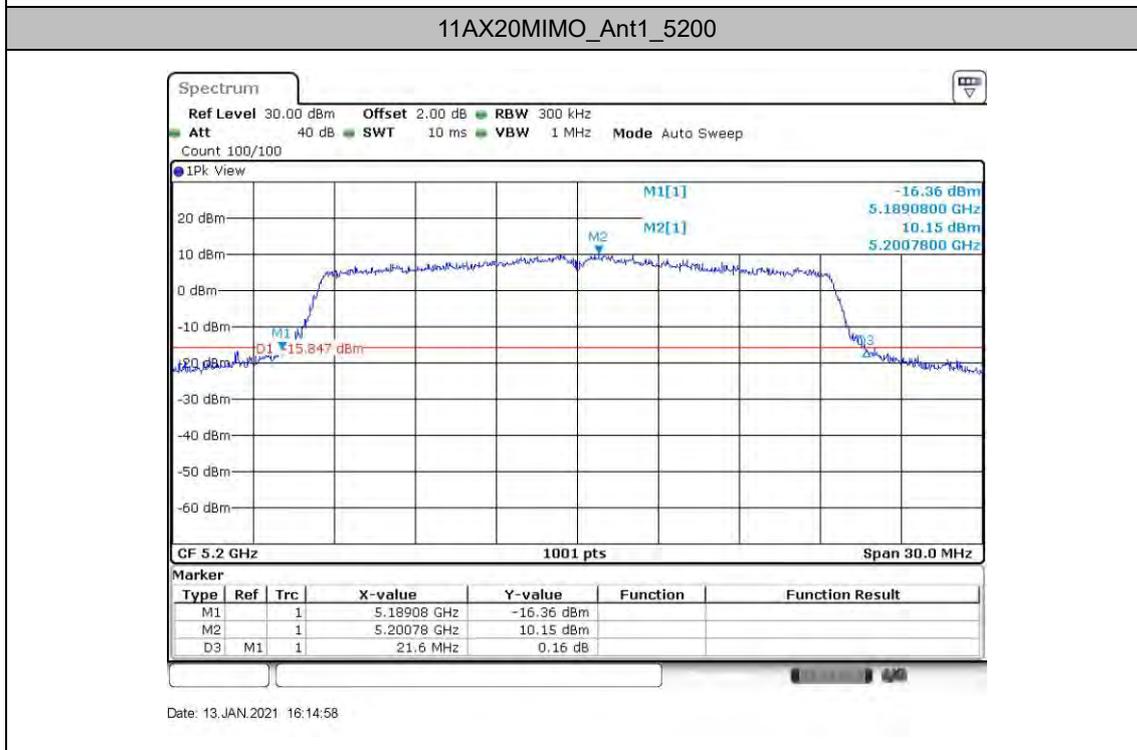
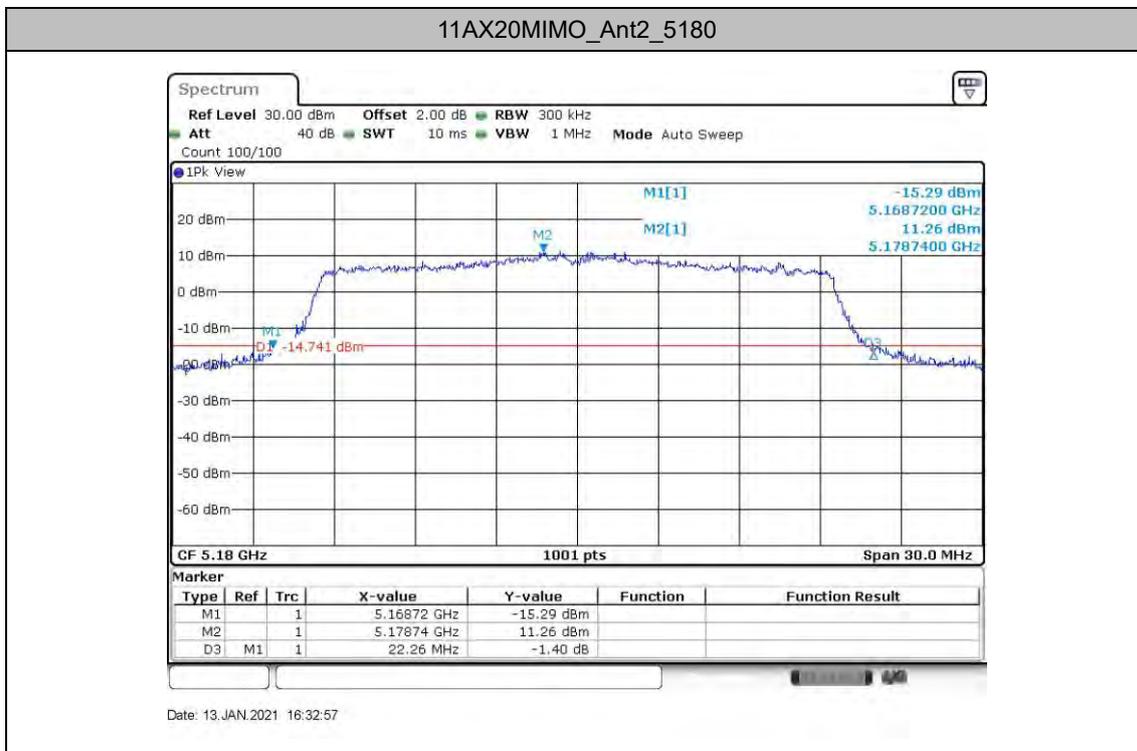
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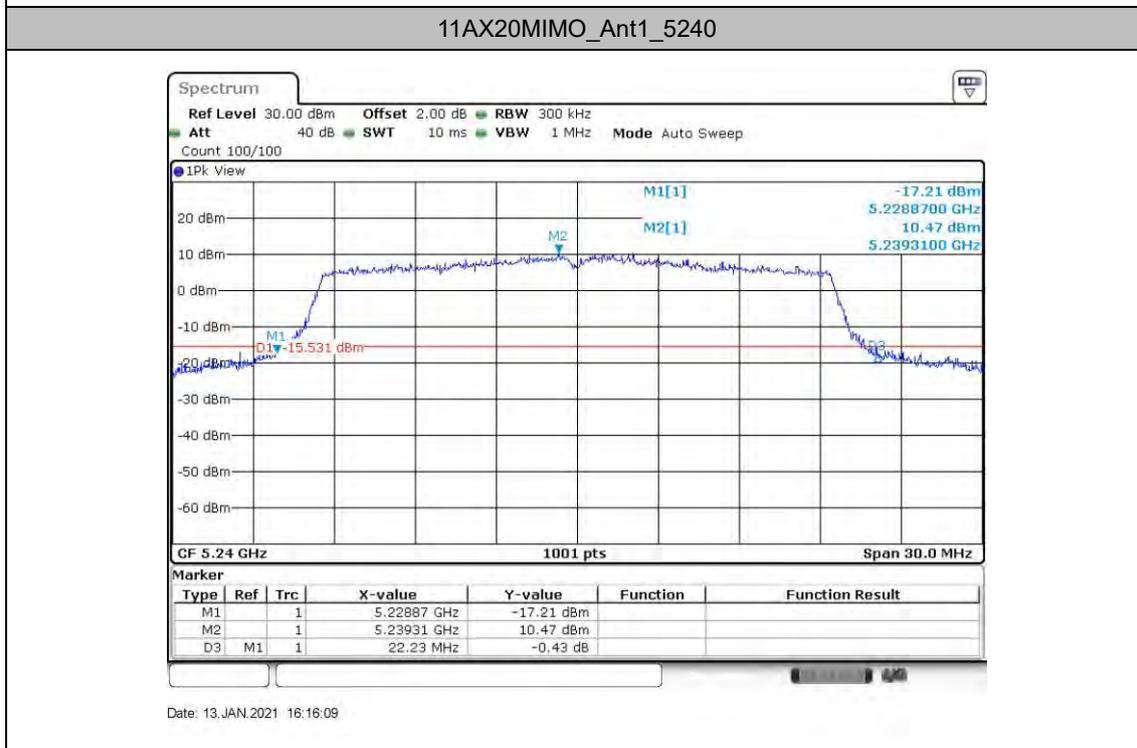
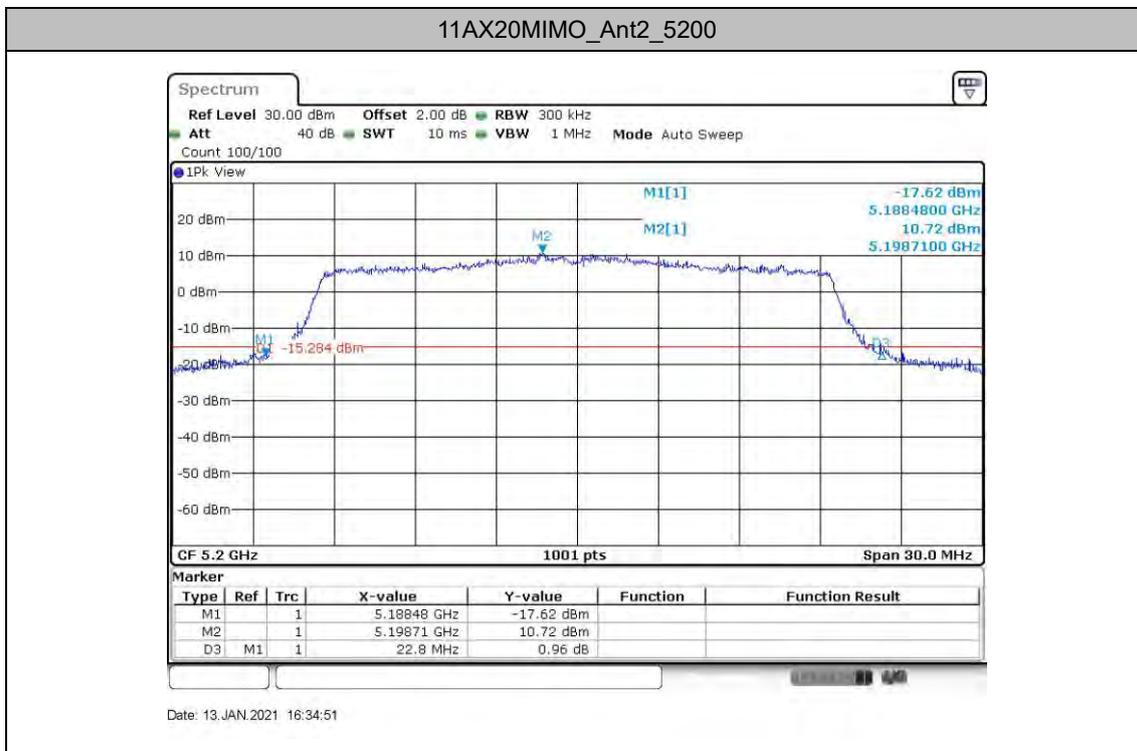
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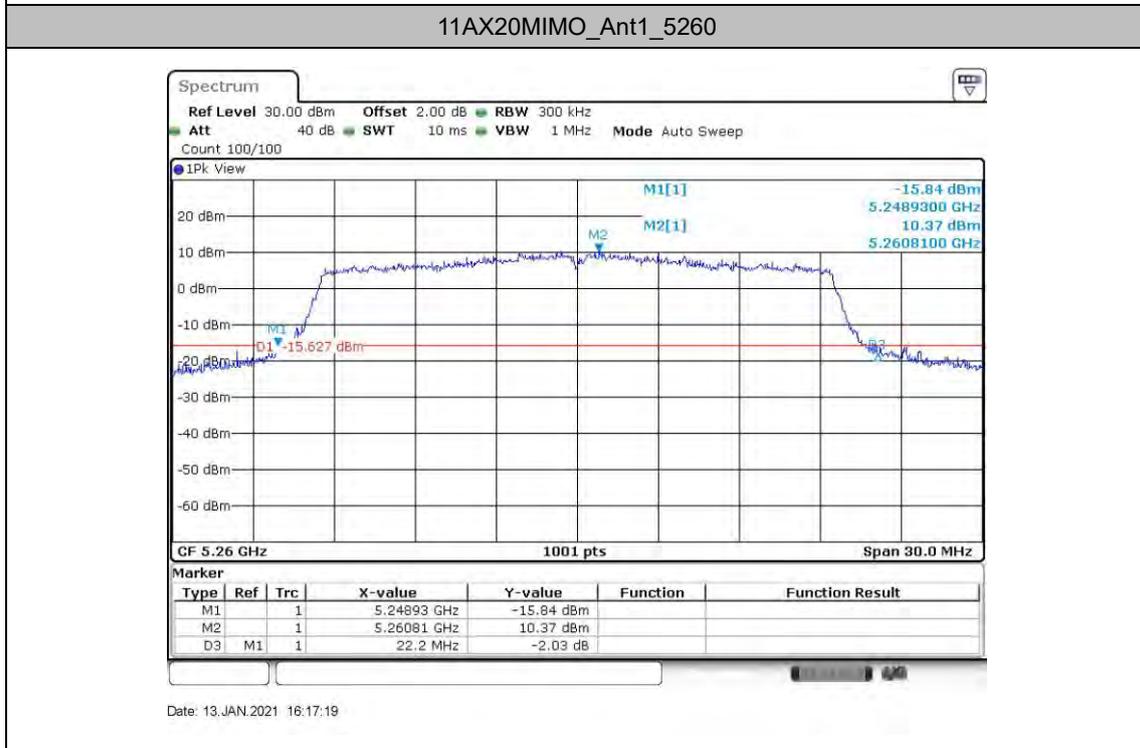
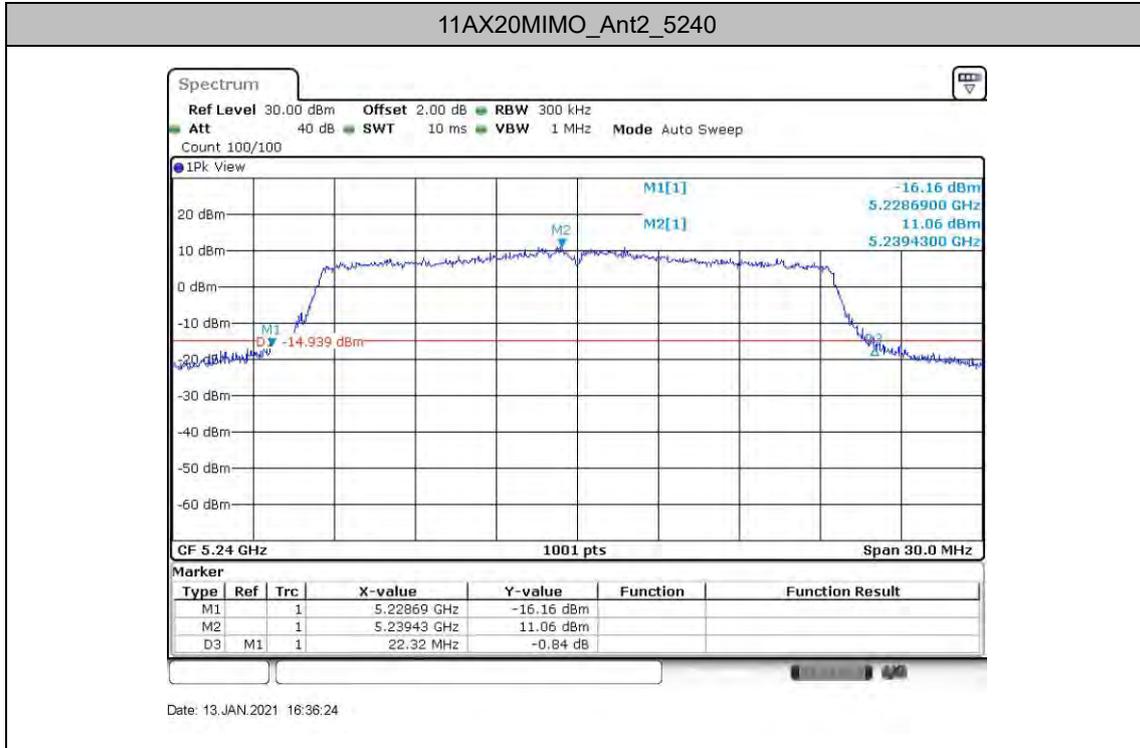
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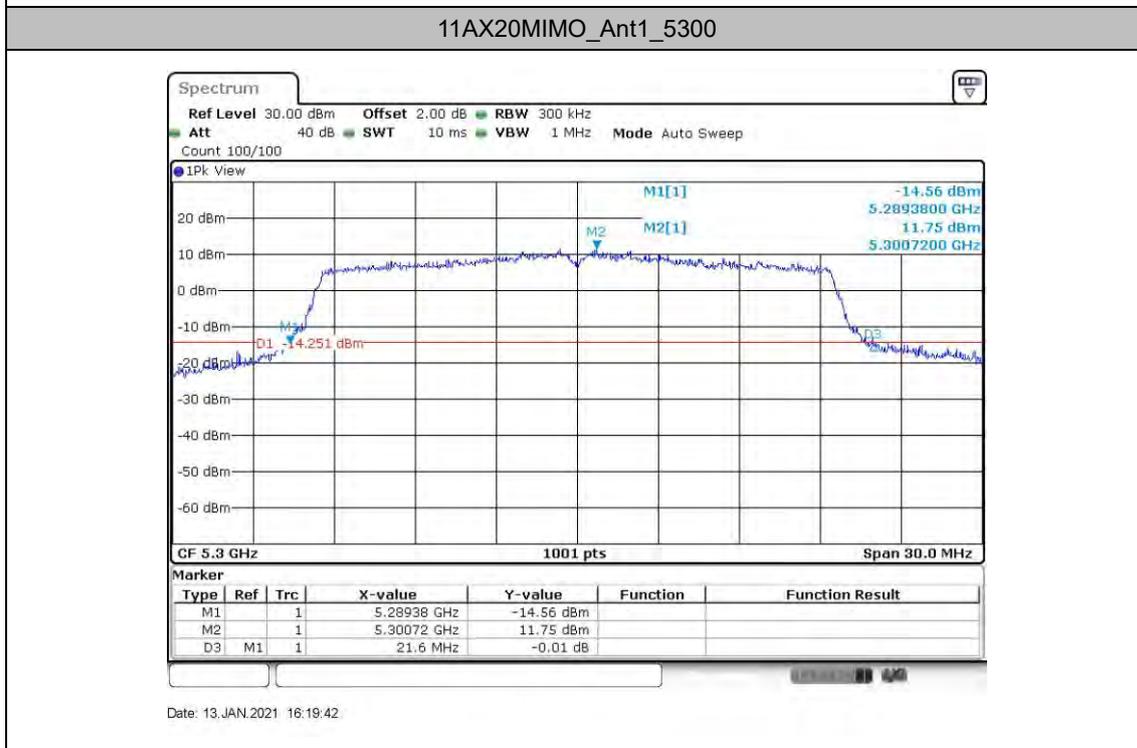
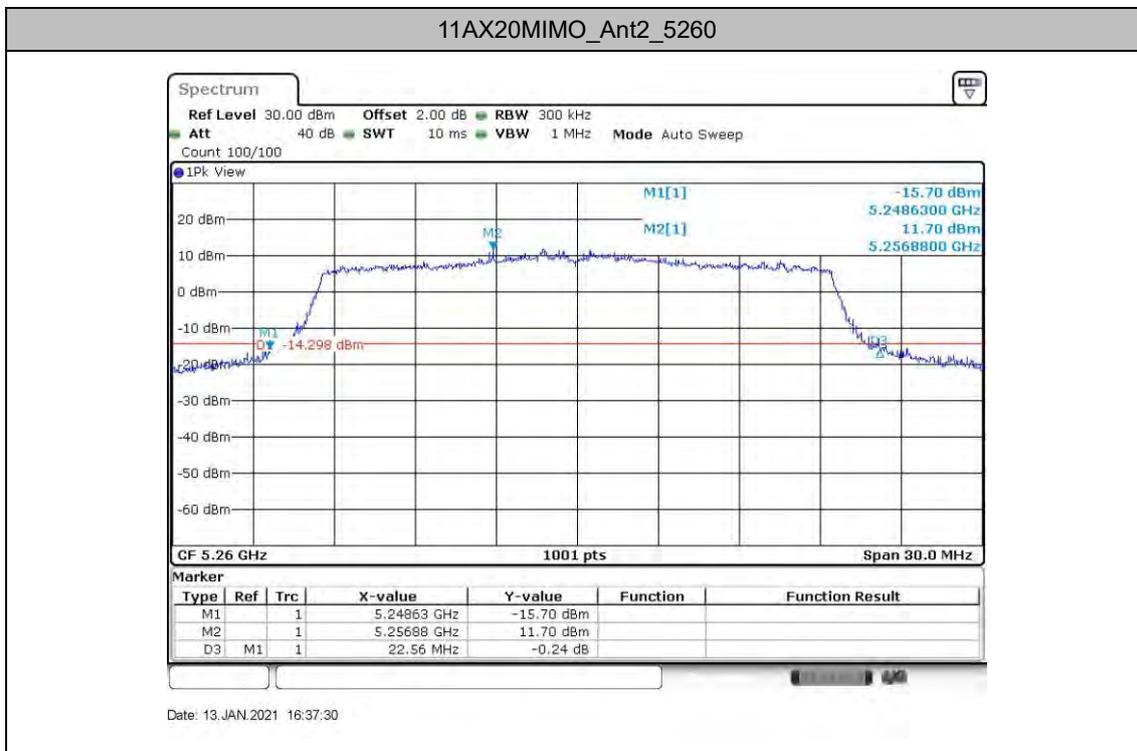
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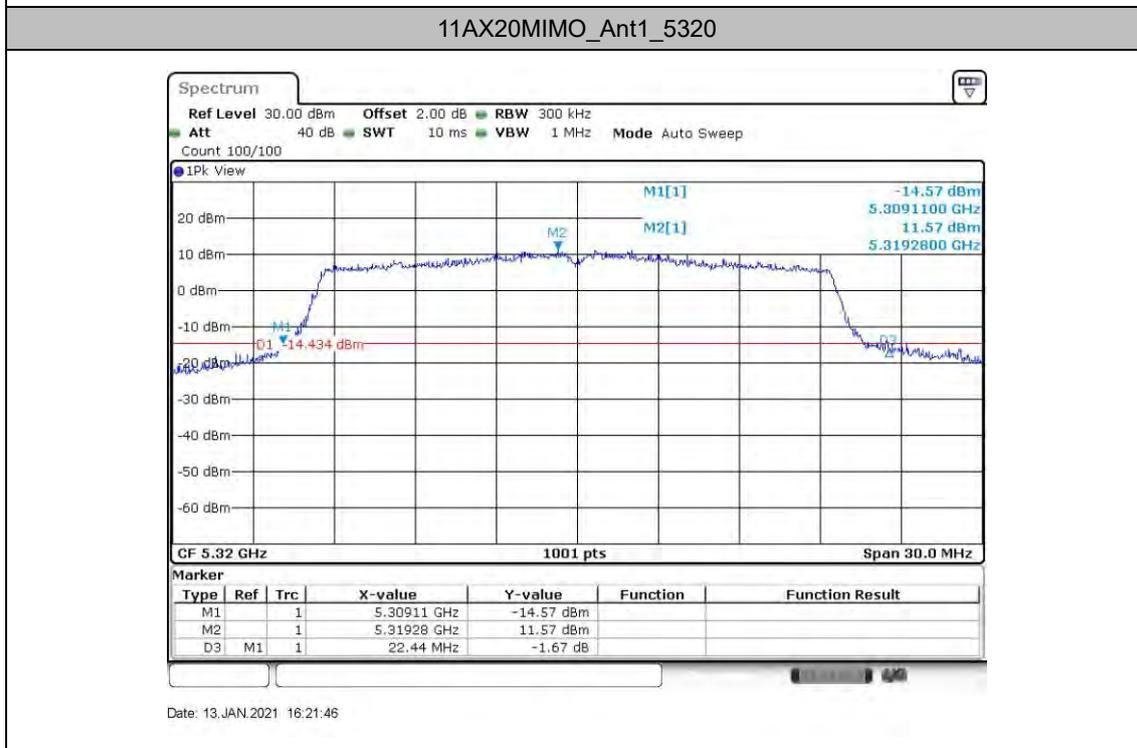
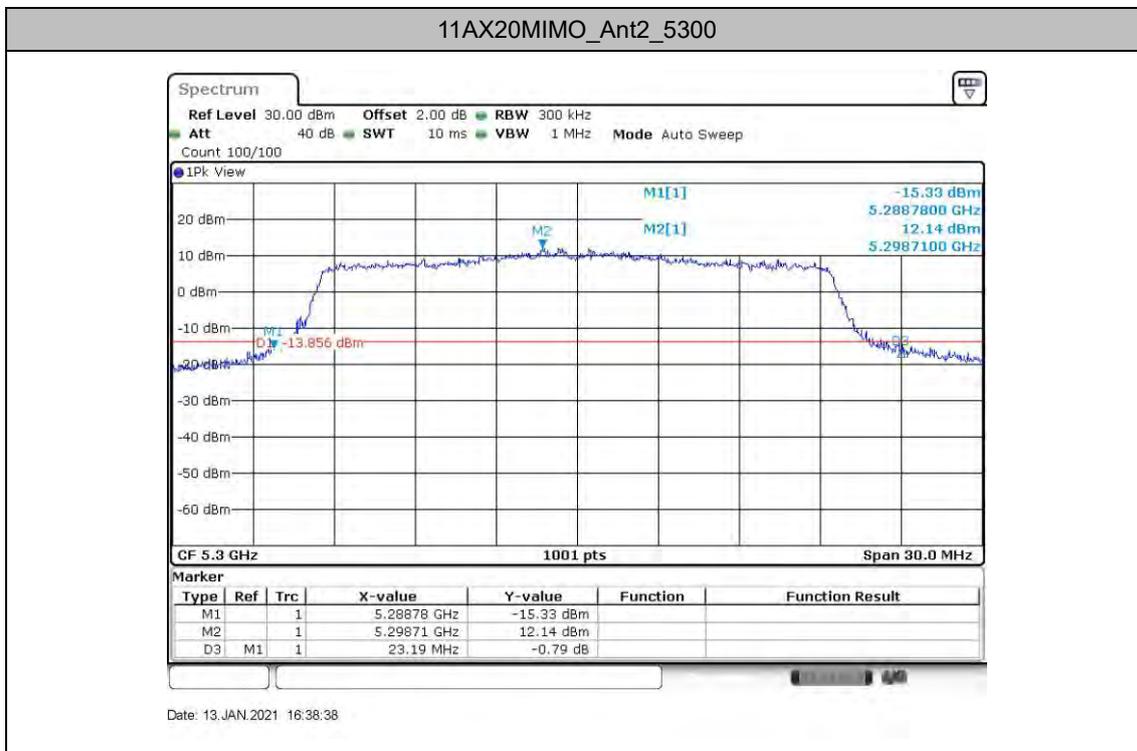
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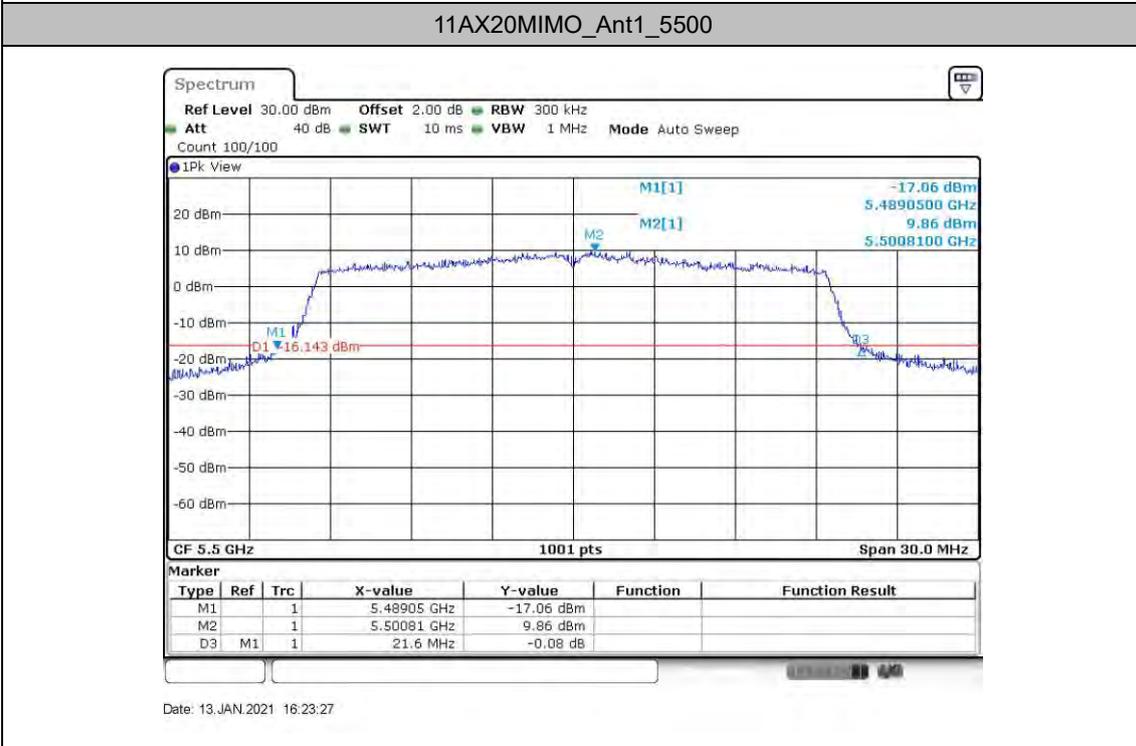
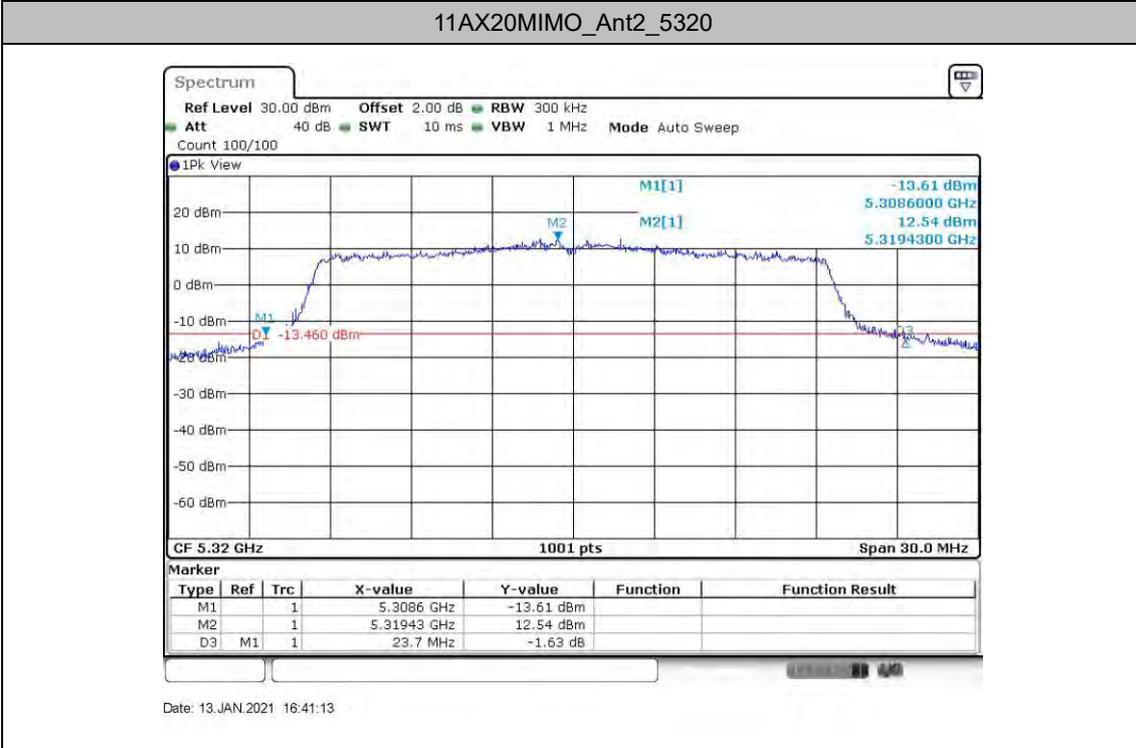
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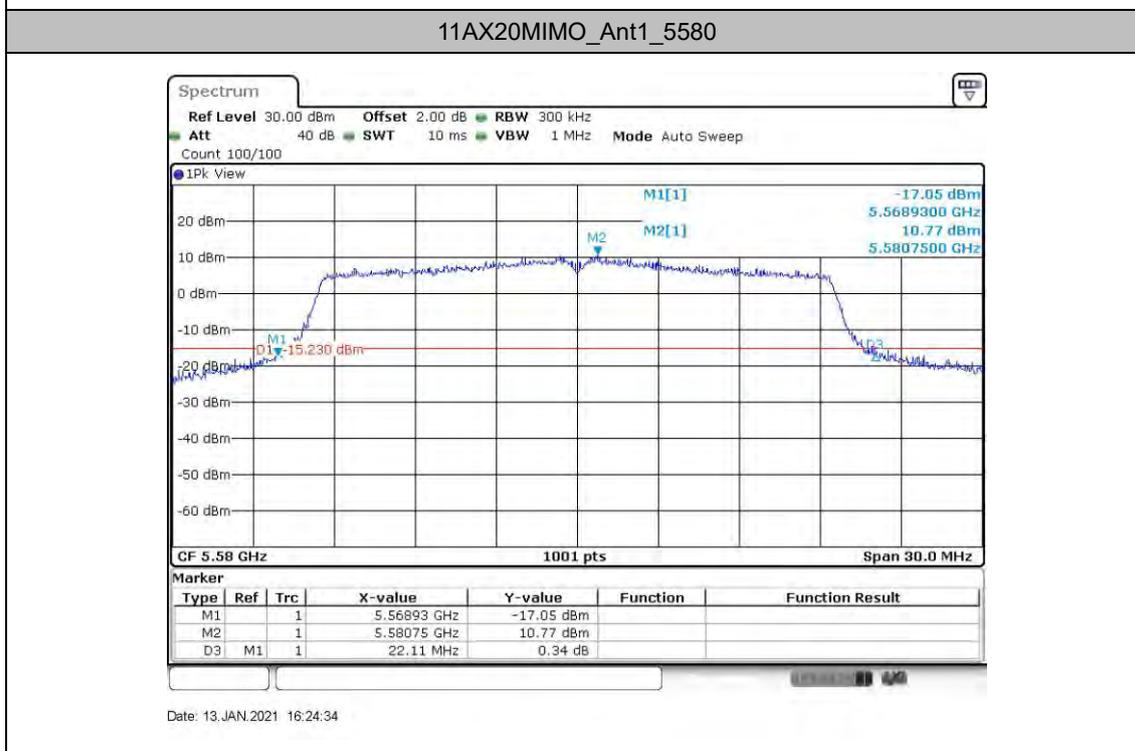
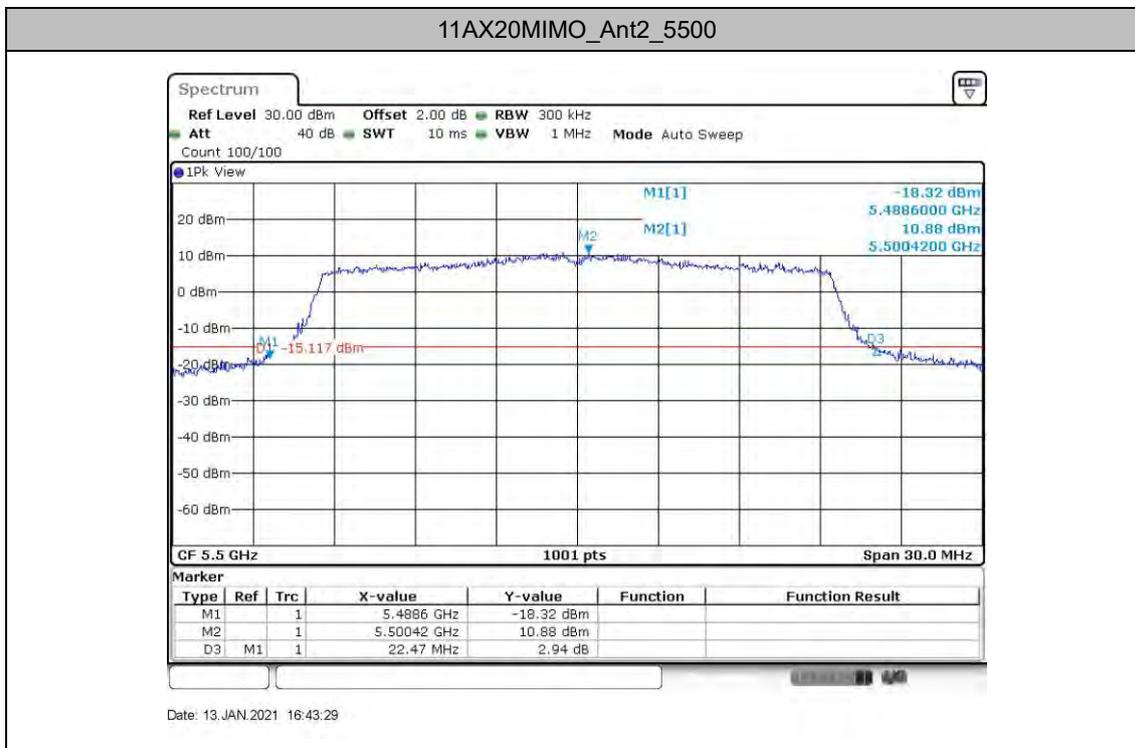
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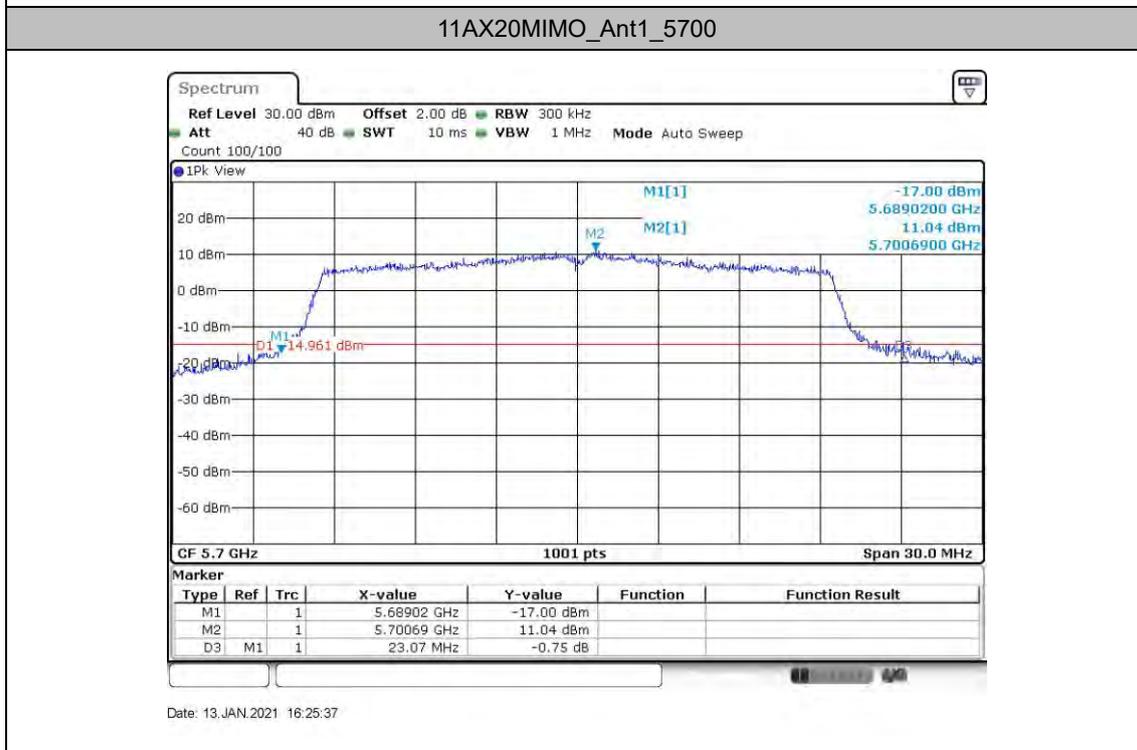
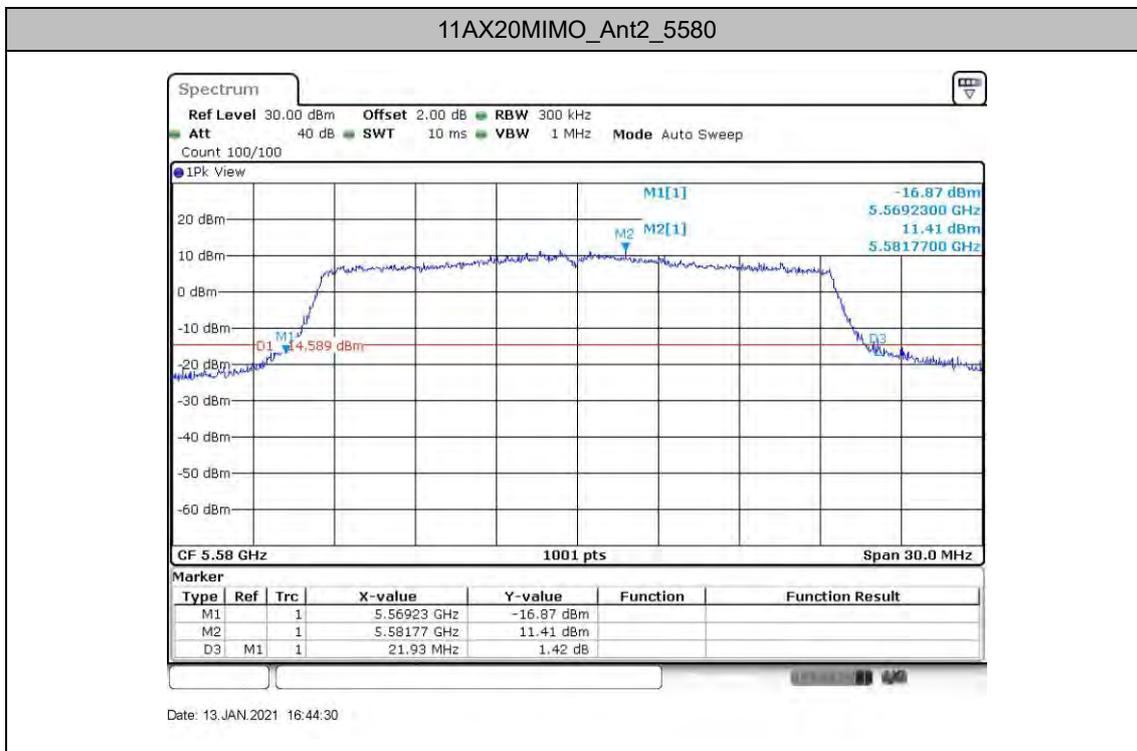
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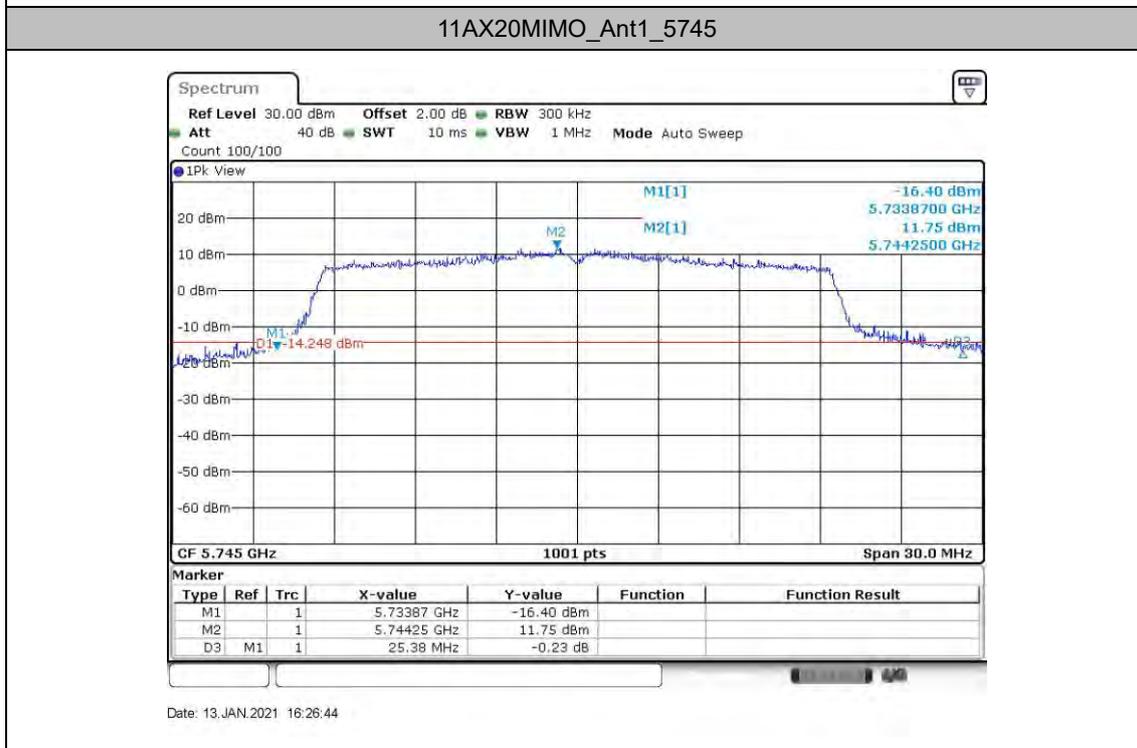
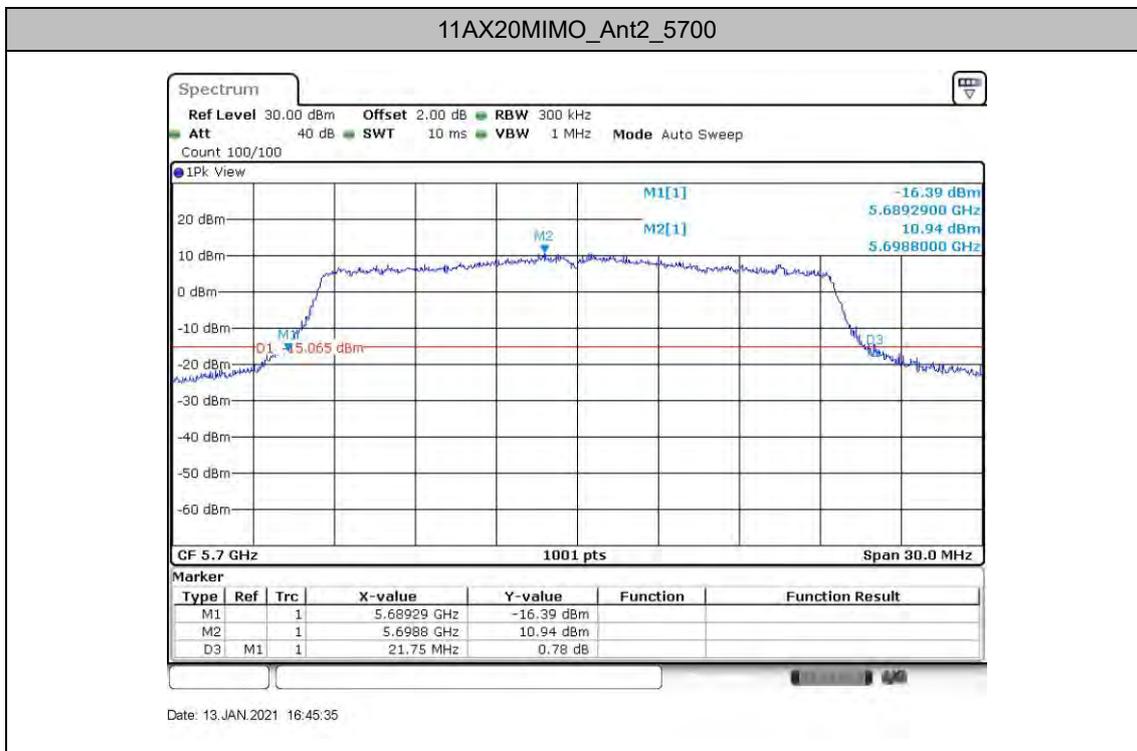
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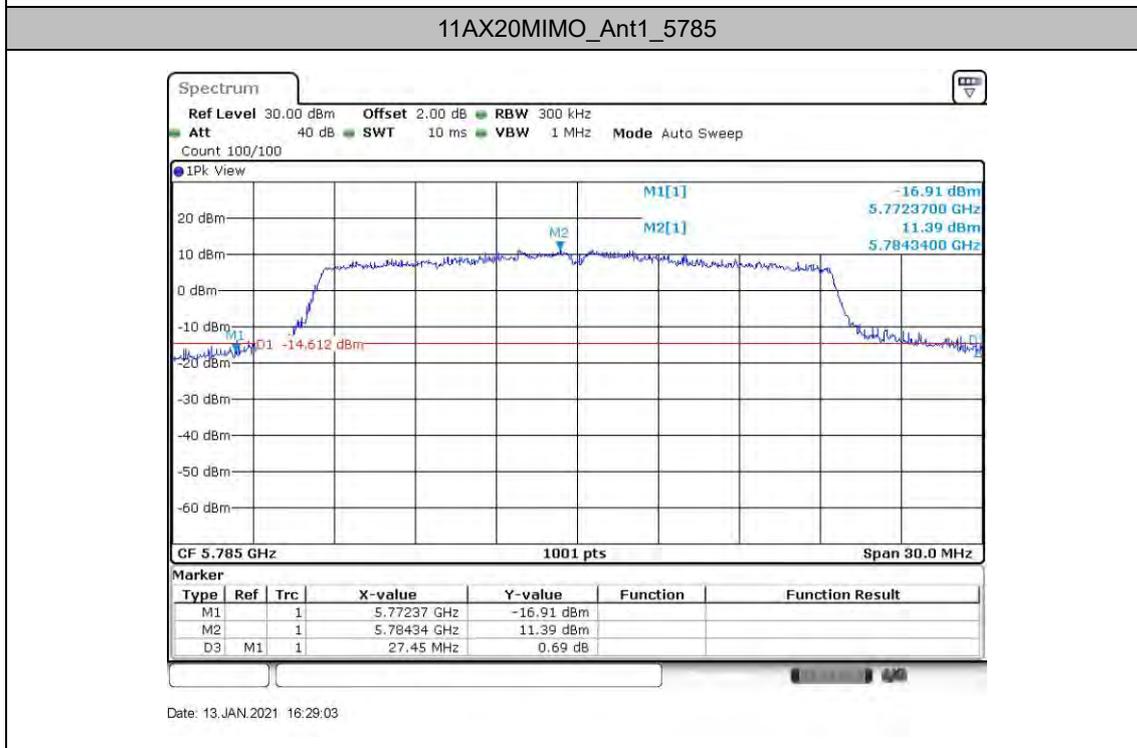
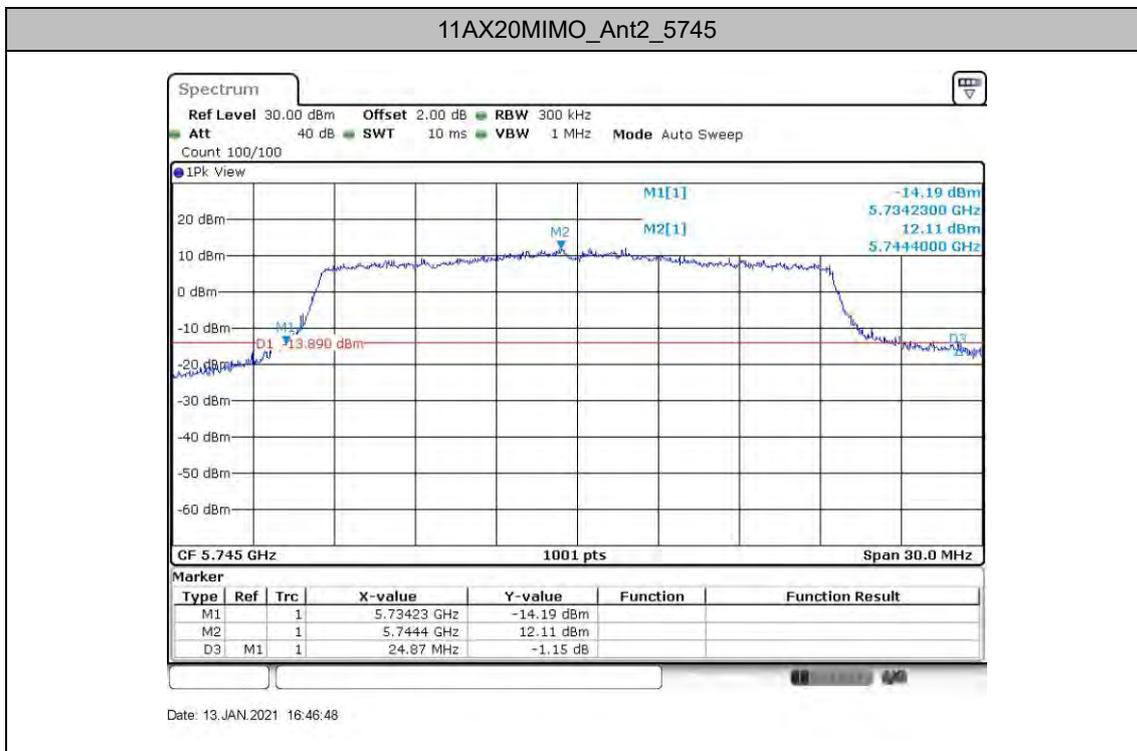
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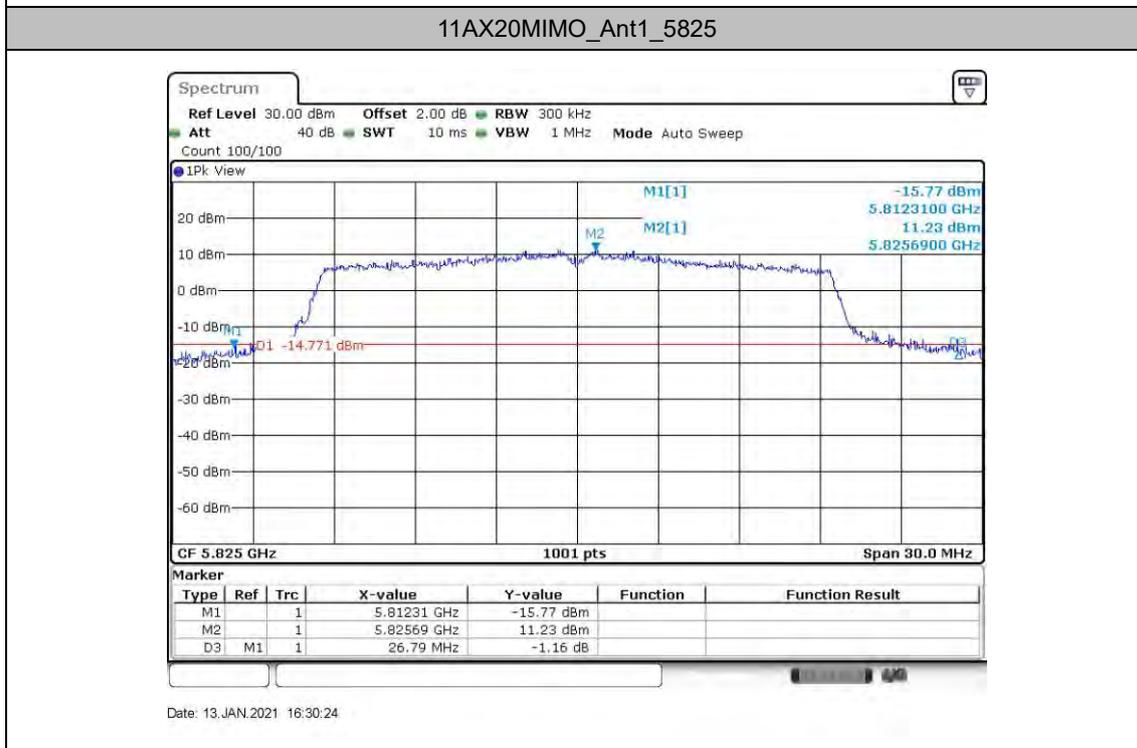
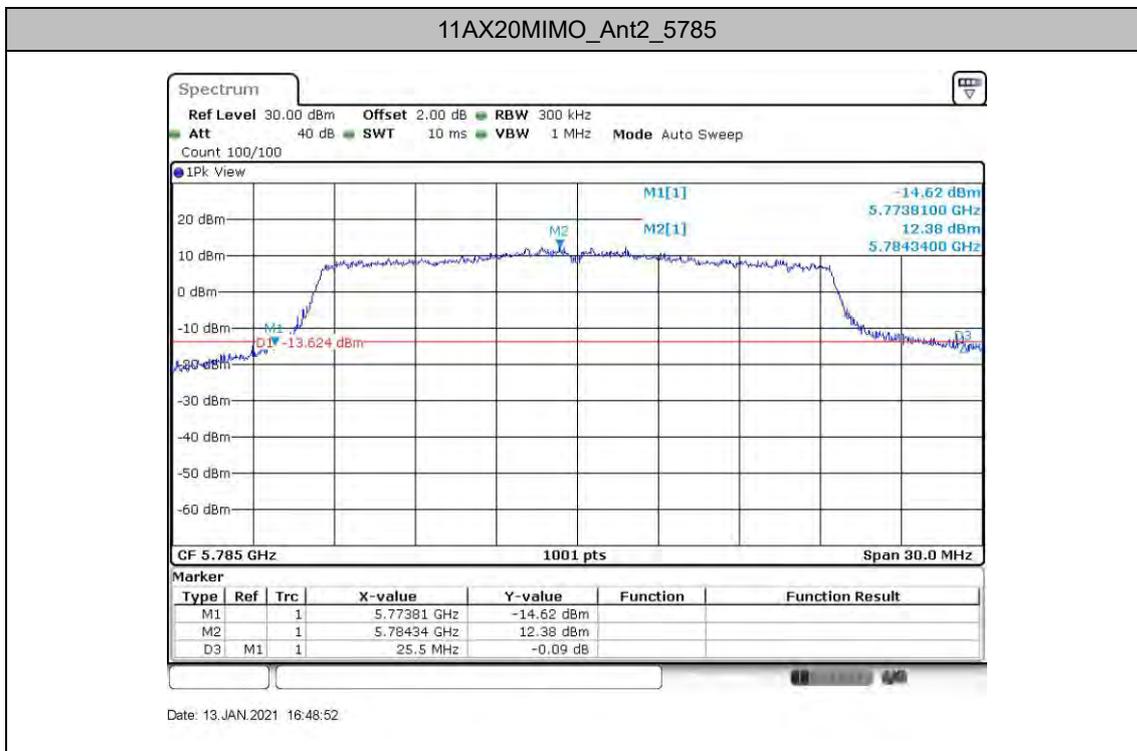
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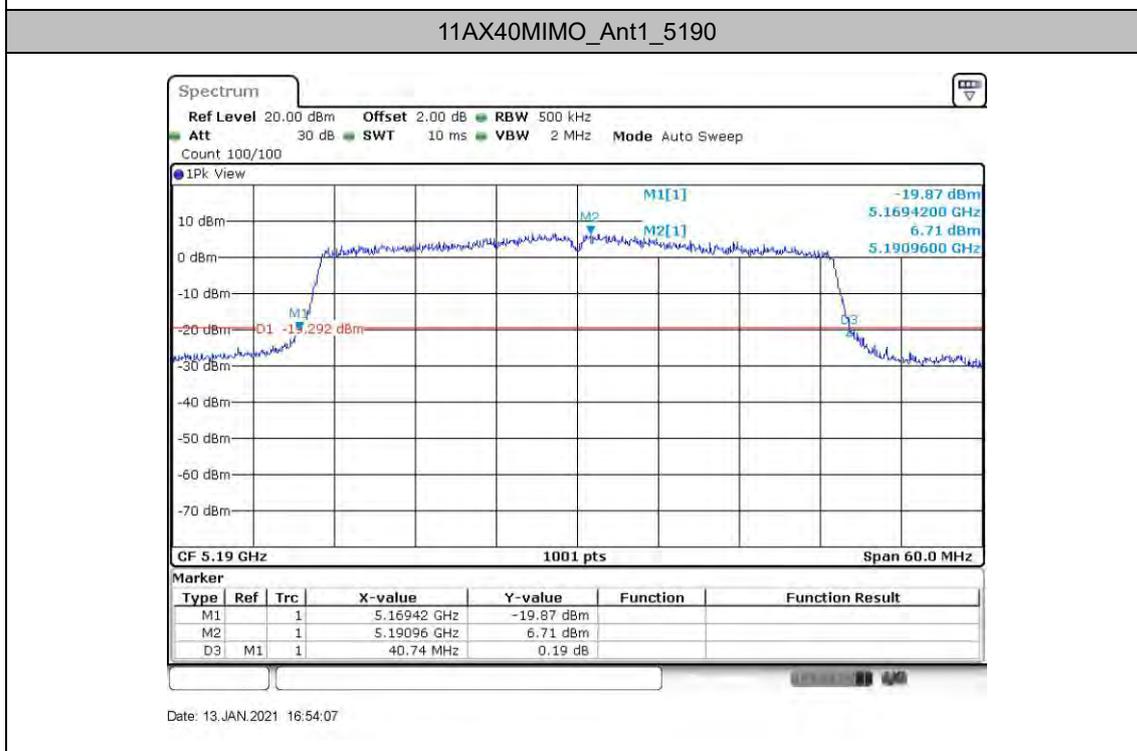
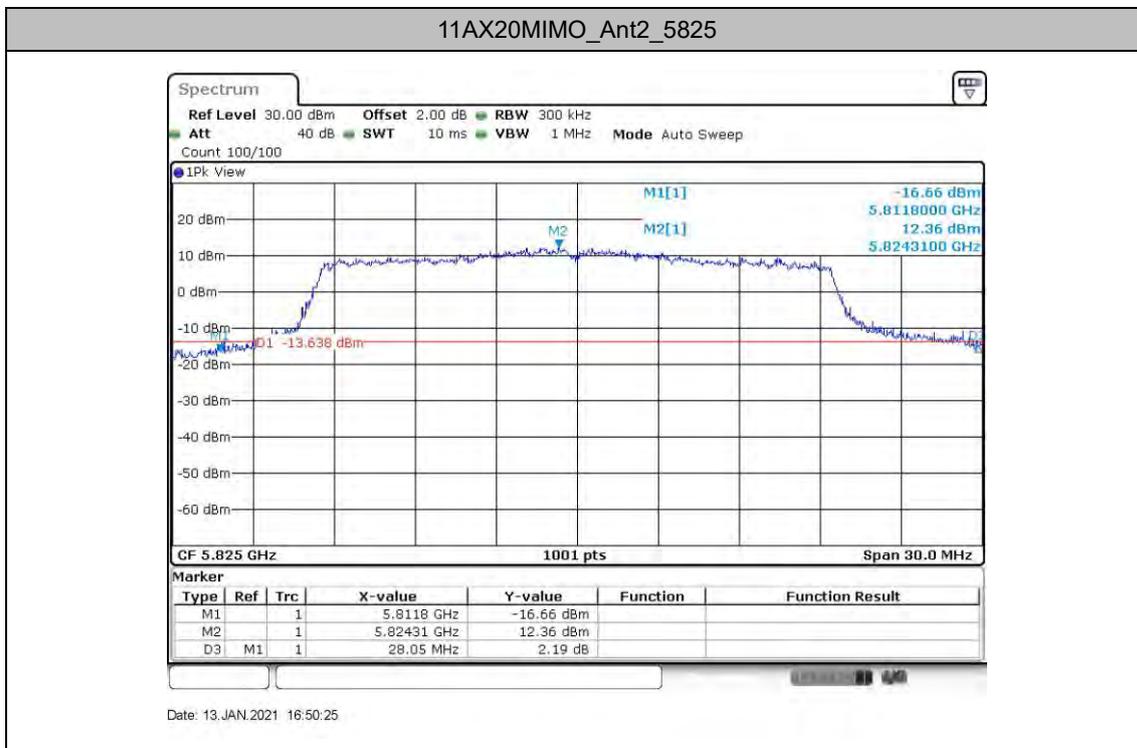
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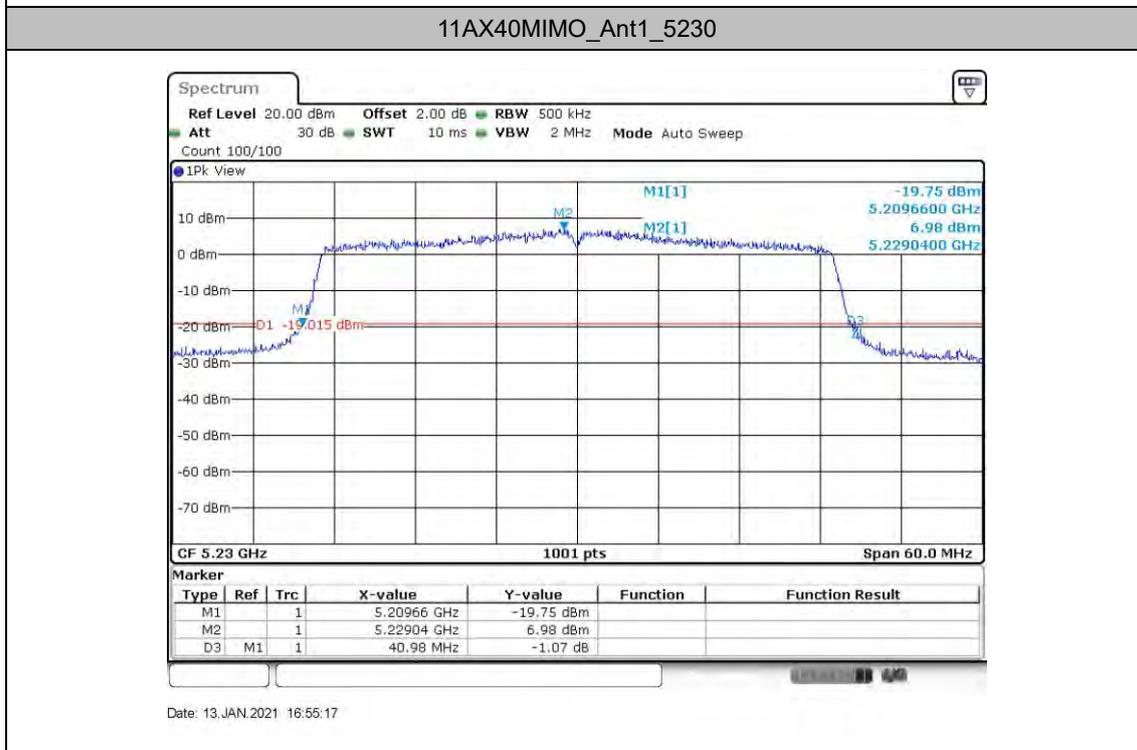
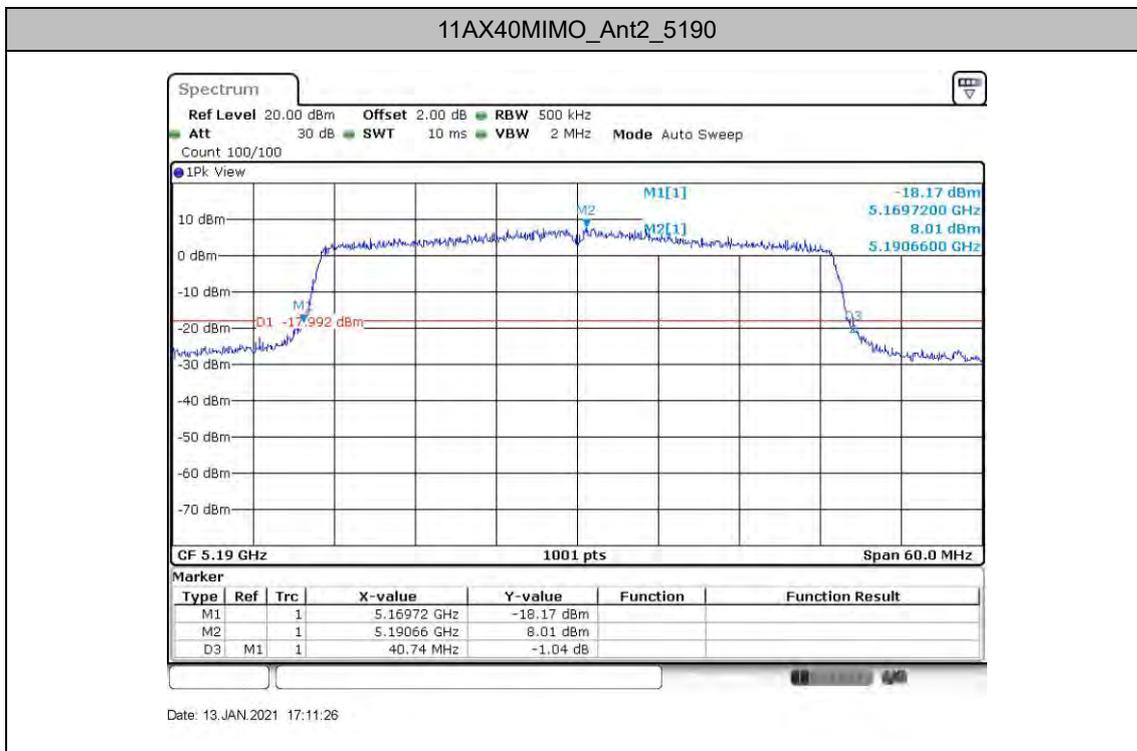
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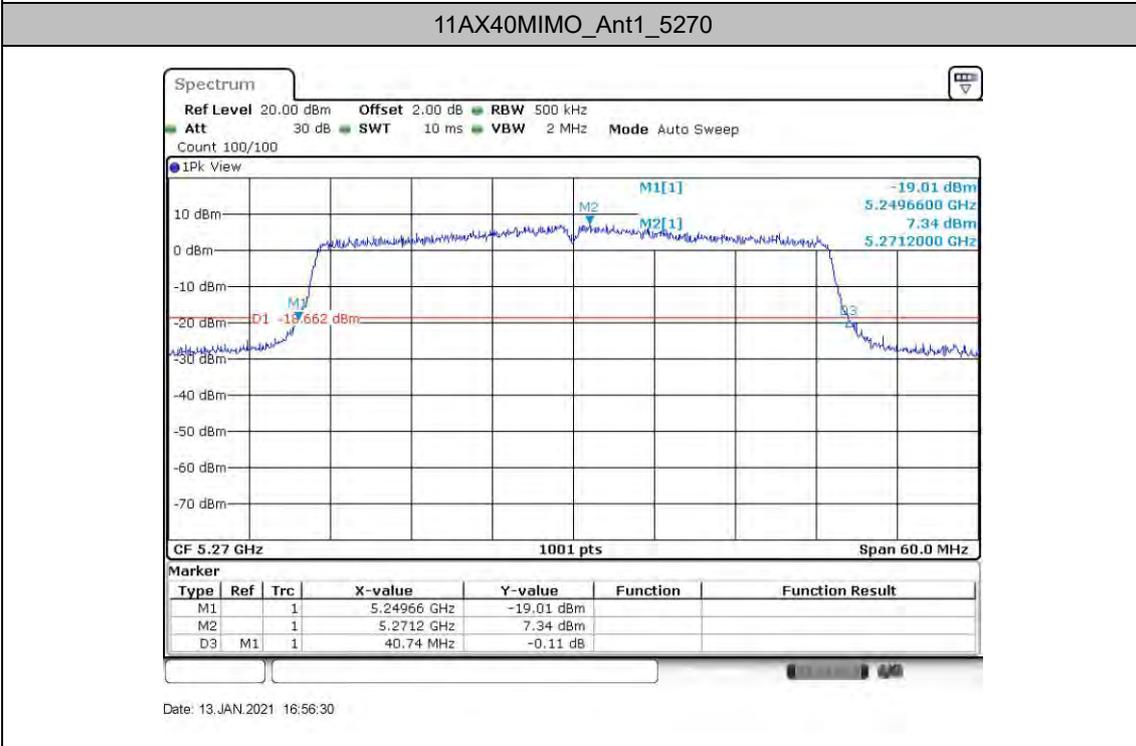
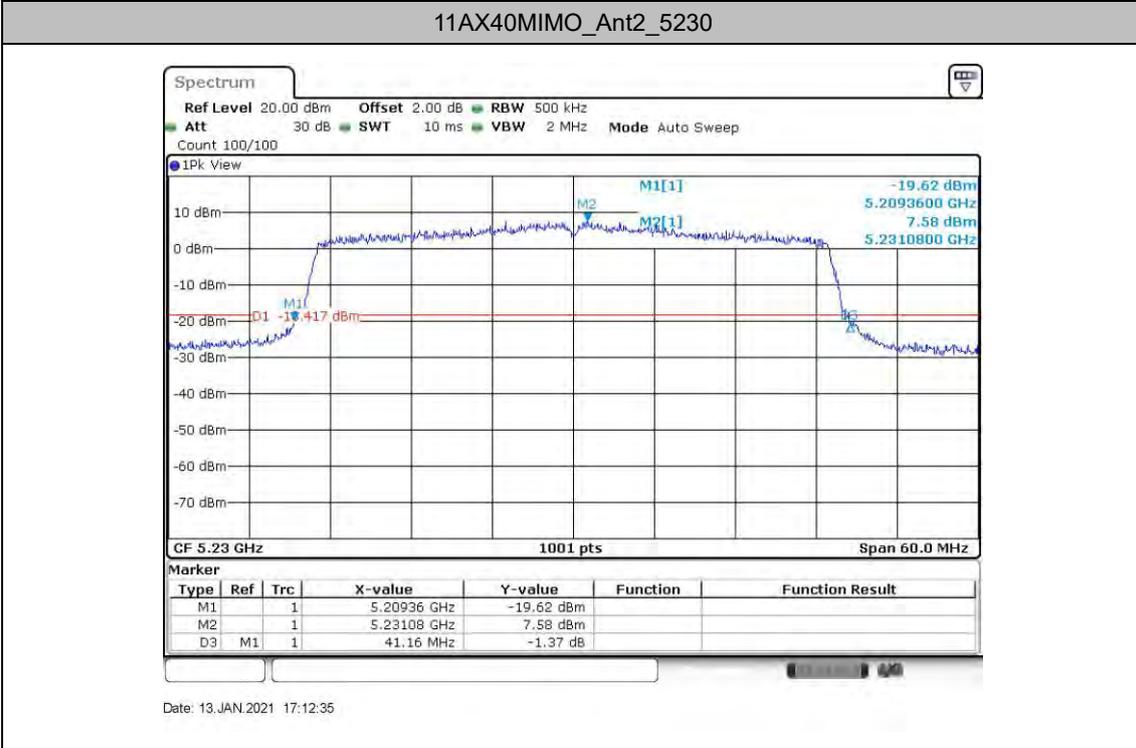
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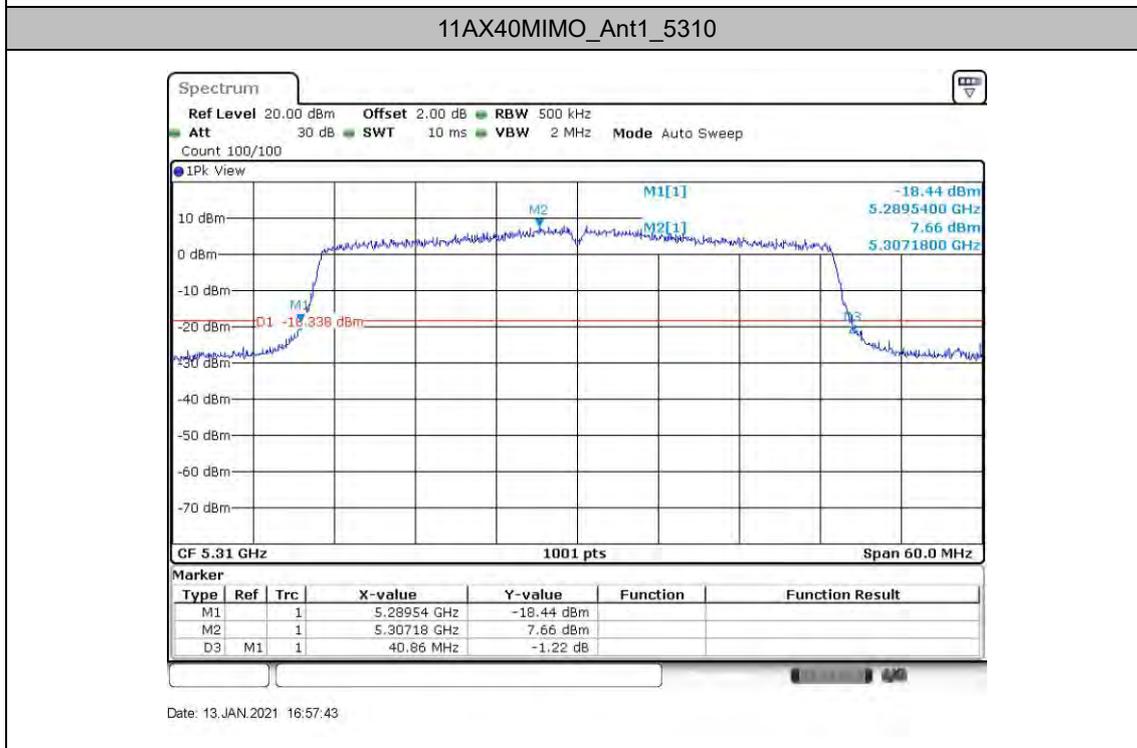
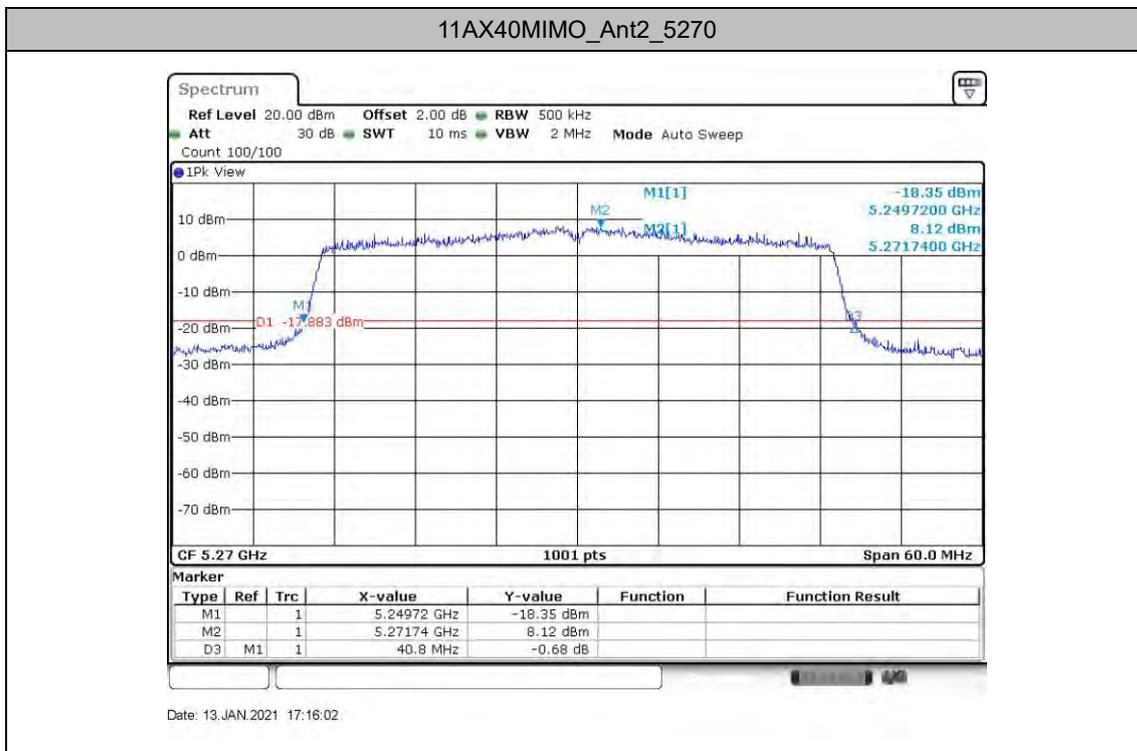
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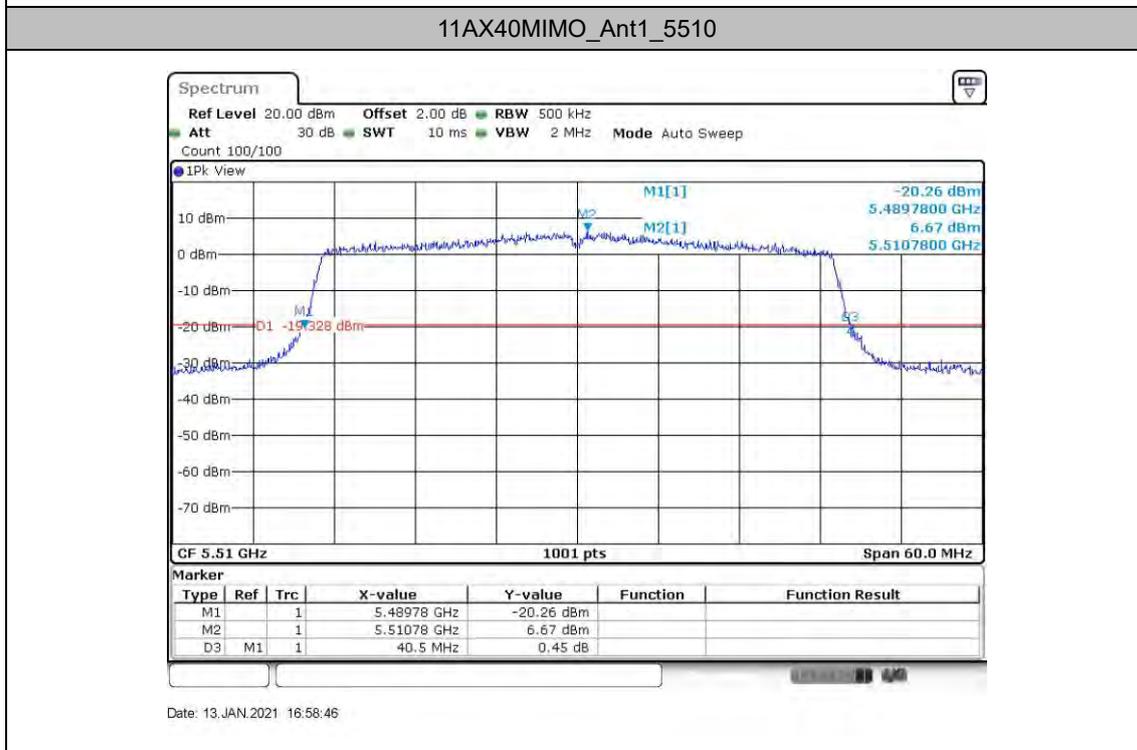
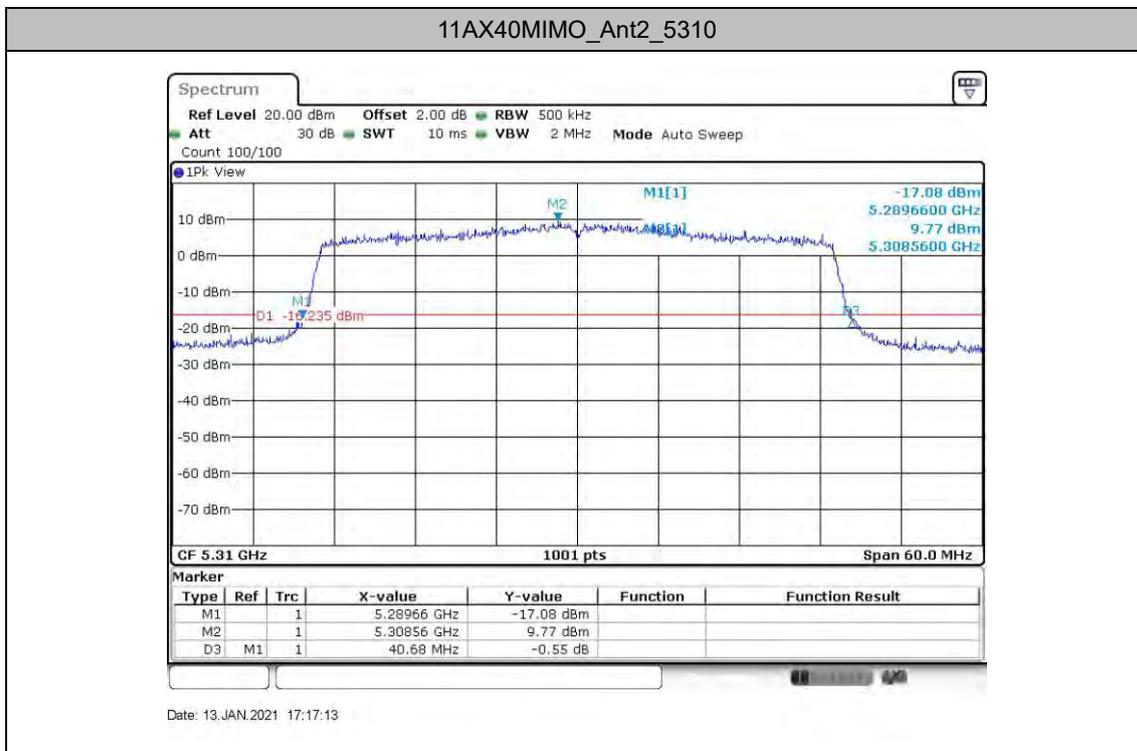
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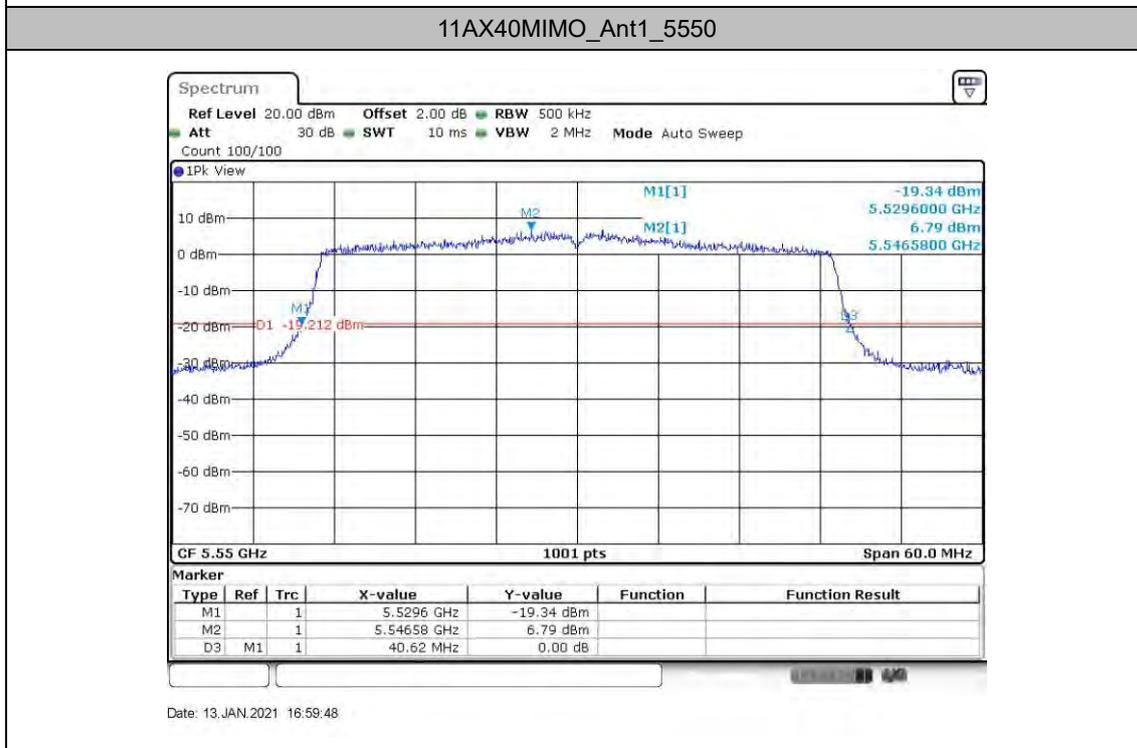
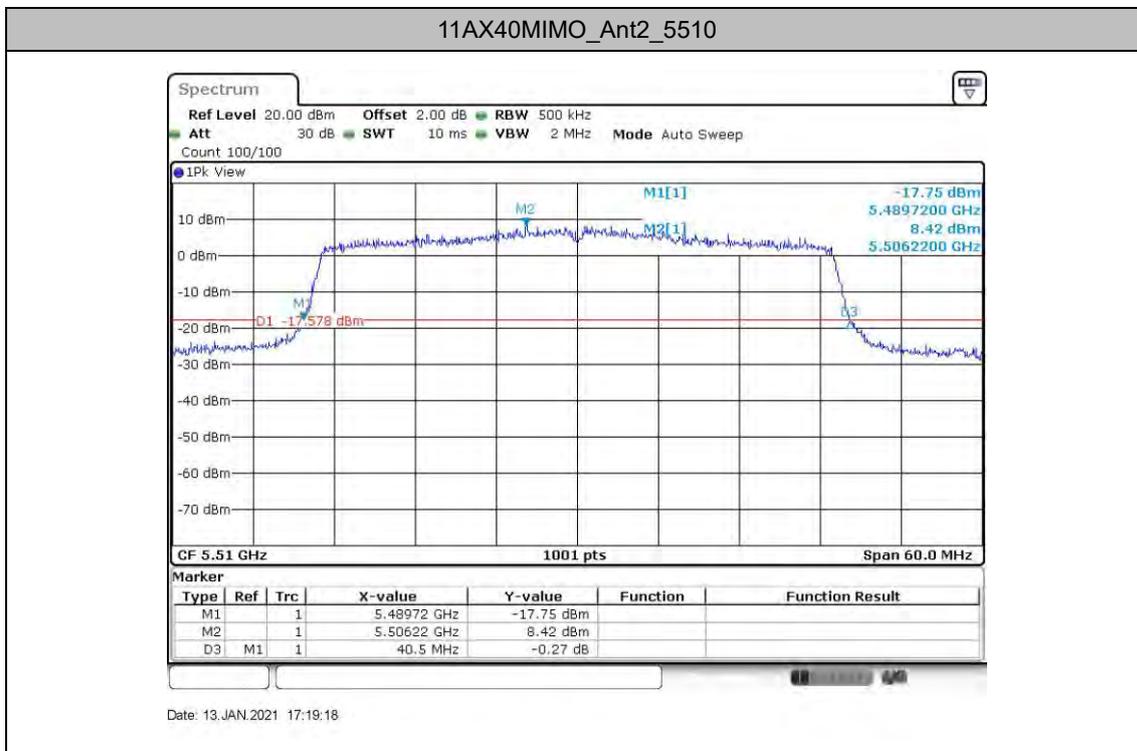
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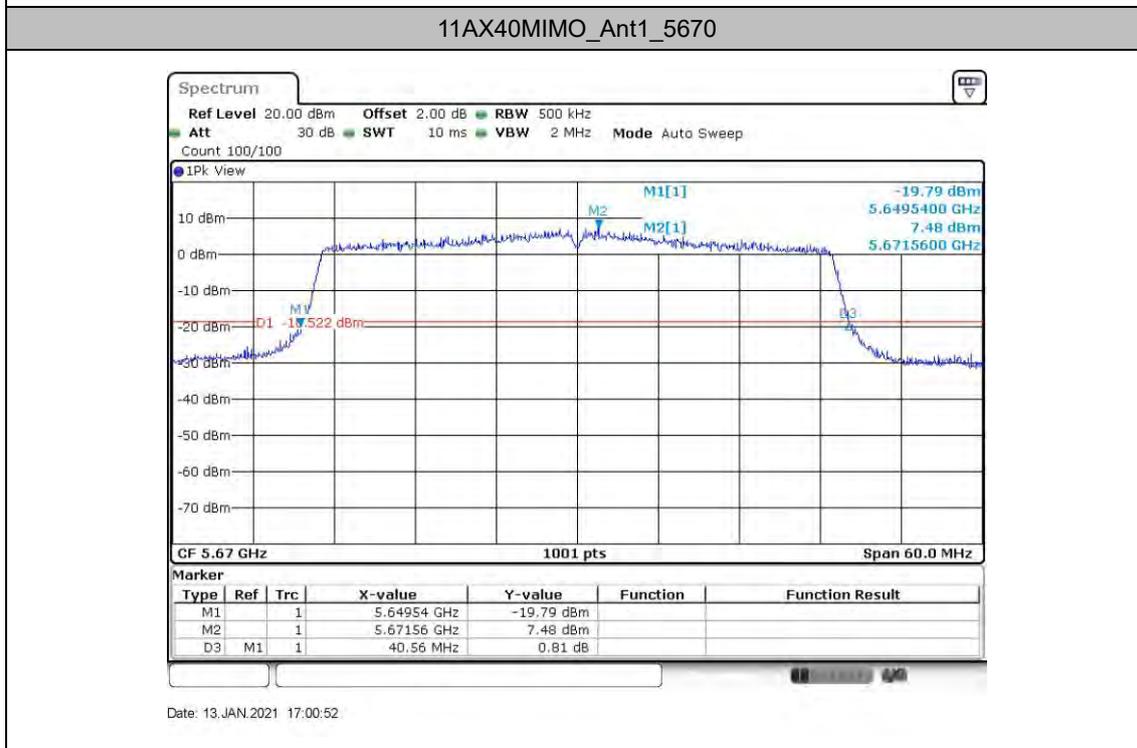
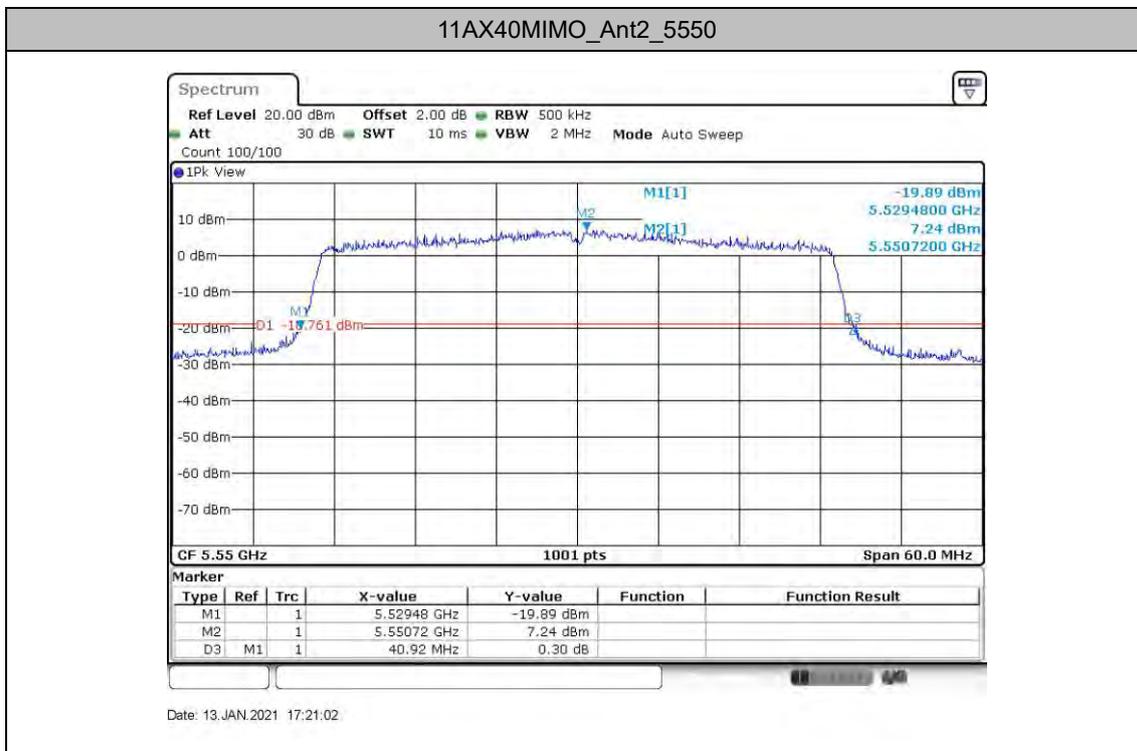
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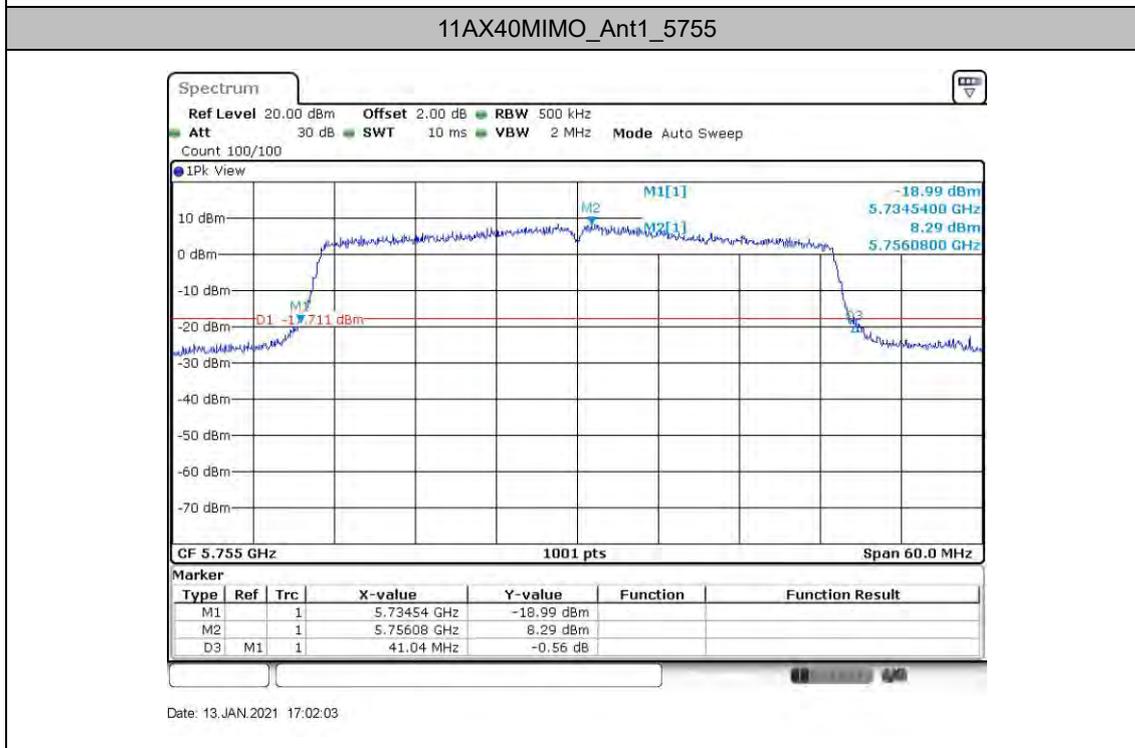
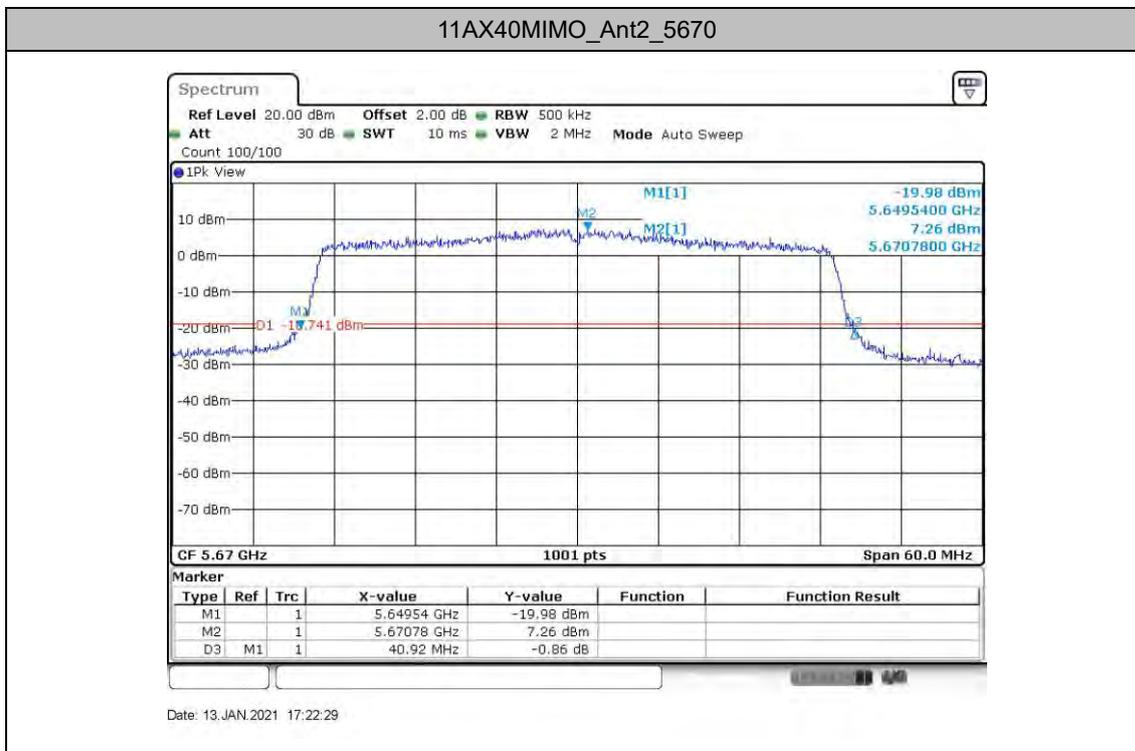
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