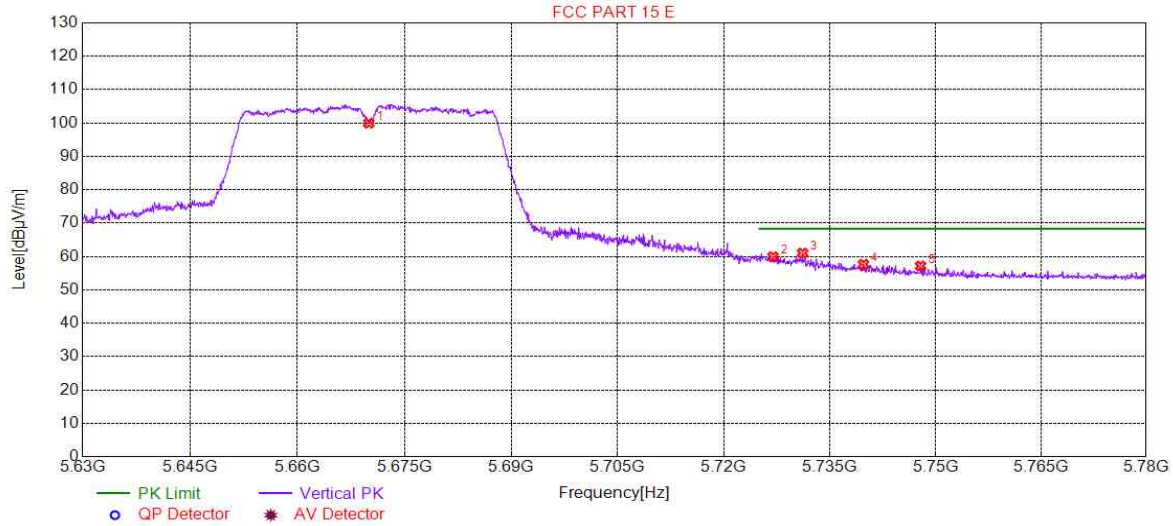


4.10.1.73 802.11AC40_Channel 134

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	99.94	0.00	-99.94	300	206	Vertical
2	5726.948	59.95	68.30	8.35	300	192	Vertical
3	5731.150	61.02	68.30	7.28	300	203	Vertical
4	5739.779	57.66	68.30	10.64	300	185	Vertical
5	5747.883	57.15	68.30	11.15	300	196	Vertical

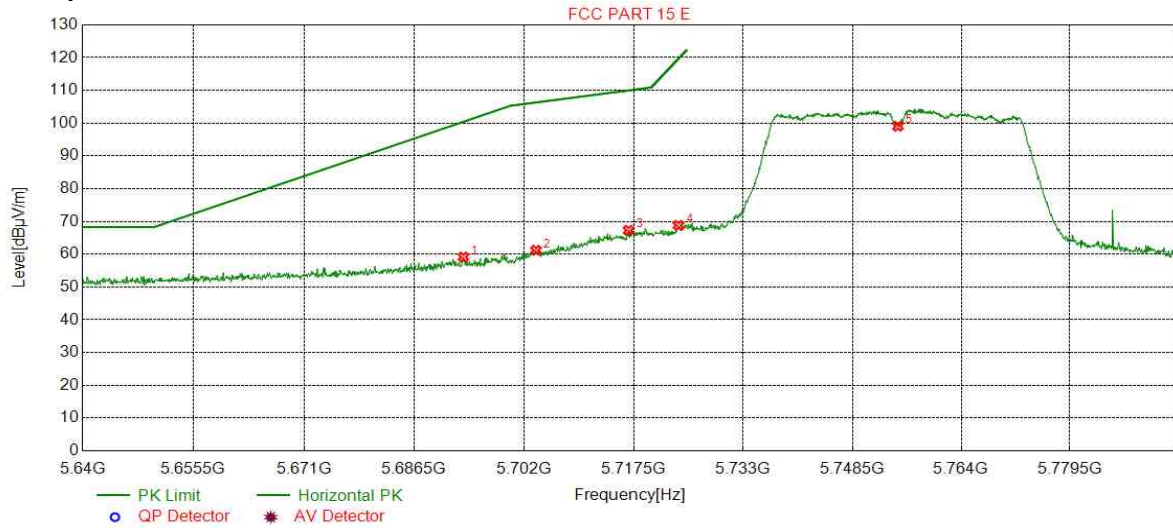
Final Data List



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4.10.1.74 802.11AC40_Channel 151

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5693.424	59.14	100.43	41.29	150	343	Horizontal
2	5703.659	61.22	106.32	45.10	150	23	Horizontal
3	5716.763	67.31	109.99	42.68	150	339	Horizontal
4	5723.819	68.78	119.61	50.83	150	339	Horizontal
5	5755.000	99.08	0.00	-99.08	150	44	Horizontal

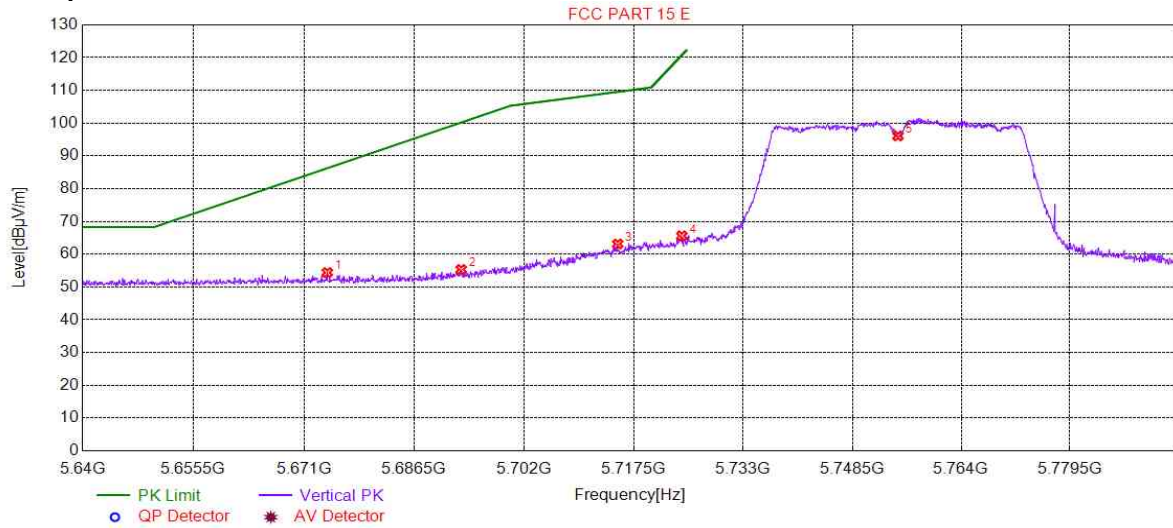
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4.10.1.75 802.11AC40_Channel 151

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5674.272	54.40	86.26	31.86	150	20	Vertical
2	5693.114	55.34	100.20	44.86	150	27	Vertical
3	5715.212	63.15	109.56	46.41	150	34	Vertical
4	5724.284	65.62	120.67	55.05	150	23	Vertical
5	5755.000	96.11	0.00	-96.11	150	34	Vertical

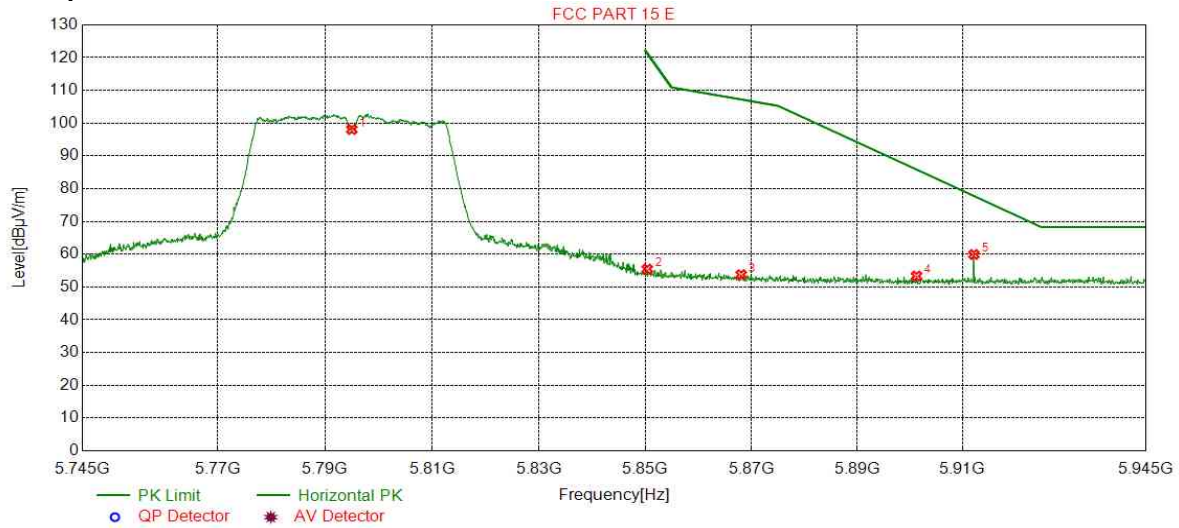
Final Data List



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4.10.1.76 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	98.09	0.00	-98.09	150	44	Horizontal
2	5850.352	55.46	121.50	66.04	150	212	Horizontal
3	5868.061	53.75	107.24	53.49	150	212	Horizontal
4	5901.278	53.34	85.85	32.51	150	212	Horizontal
5	5912.183	59.93	77.78	17.85	150	265	Horizontal

Final Data List

Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	98.09	0.00	-98.09	150	44	Horizontal
2	5850.352	55.46	121.50	66.04	150	212	Horizontal
3	5868.061	53.75	107.24	53.49	150	212	Horizontal
4	5901.278	53.34	85.85	32.51	150	212	Horizontal
5	5912.183	59.93	77.78	17.85	150	265	Horizontal

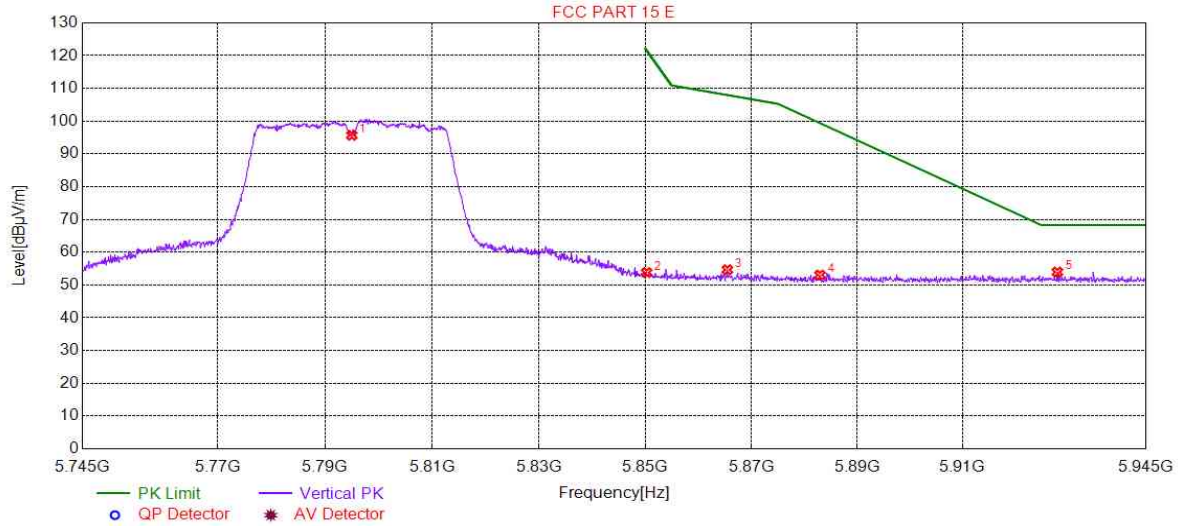


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4.10.1.77 802.11AC40_Channel 159

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	95.69	0.00	-95.69	150	28	Vertical
2	5850.252	53.80	121.72	67.92	150	18	Vertical
3	5865.460	54.66	107.97	53.31	150	35	Vertical
4	5882.969	53.05	99.40	46.35	150	138	Vertical
5	5928.091	53.96	68.30	14.34	150	49	Vertical

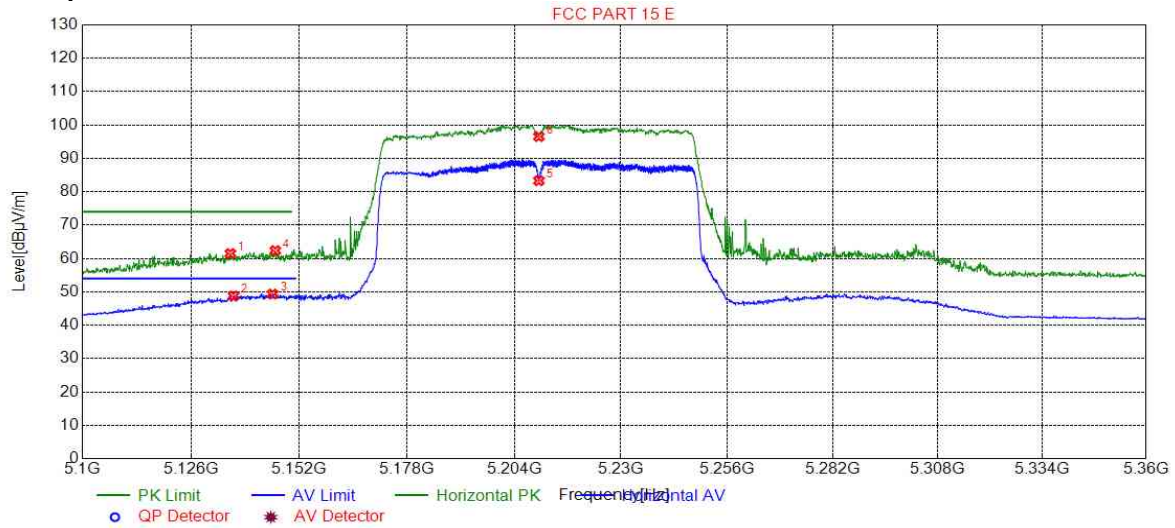
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4.10.1.78 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5135.377	61.50	74.00	12.50	100	214	Horizontal
2	5136.158	48.78	54.00	5.22	100	214	Horizontal
3	5145.522	49.36	54.00	4.64	100	214	Horizontal
4	5146.173	62.36	74.00	11.64	100	214	Horizontal
5	5210.000	83.30	0.00	-83.30	100	224	Horizontal
6	5210.000	96.54	0.00	-96.54	100	219	Horizontal

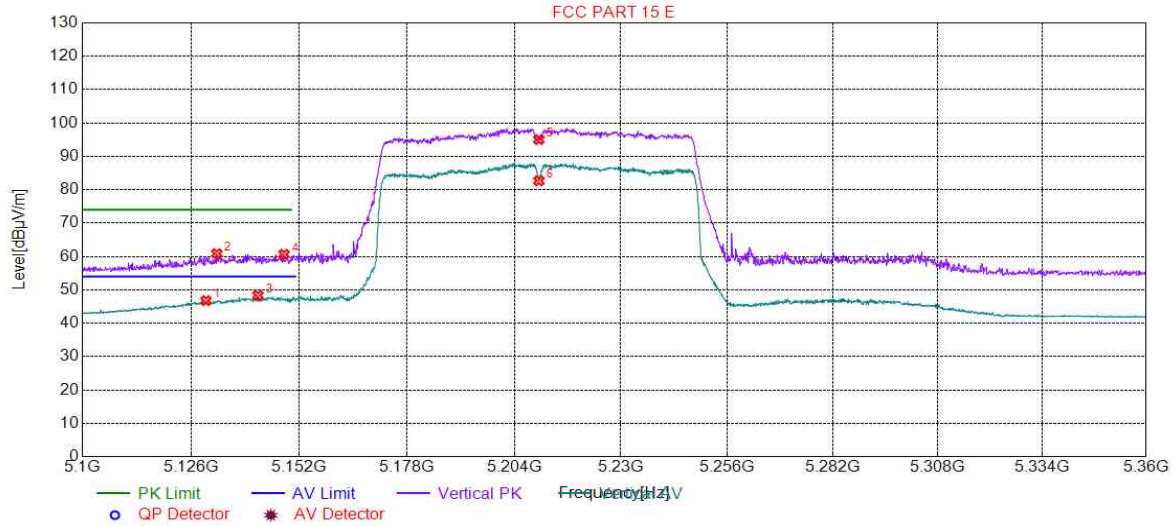
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4.10.1.79 802.11AC80_Channel 42

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.524	46.78	54.00	7.22	300	193	Vertical
2	5132.126	60.87	74.00	13.13	300	198	Vertical
3	5142.011	48.33	54.00	5.67	300	193	Vertical
4	5148.254	60.64	74.00	13.36	300	198	Vertical
5	5210.000	95.04	0.00	-95.04	300	193	Vertical
6	5210.000	82.68	0.00	-82.68	300	188	Vertical

Final Data List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5129.524	46.78	54.00	7.22	300	193	Vertical
2	5132.126	60.87	74.00	13.13	300	198	Vertical
3	5142.011	48.33	54.00	5.67	300	193	Vertical
4	5148.254	60.64	74.00	13.36	300	198	Vertical
5	5210.000	95.04	0.00	-95.04	300	193	Vertical
6	5210.000	82.68	0.00	-82.68	300	188	Vertical

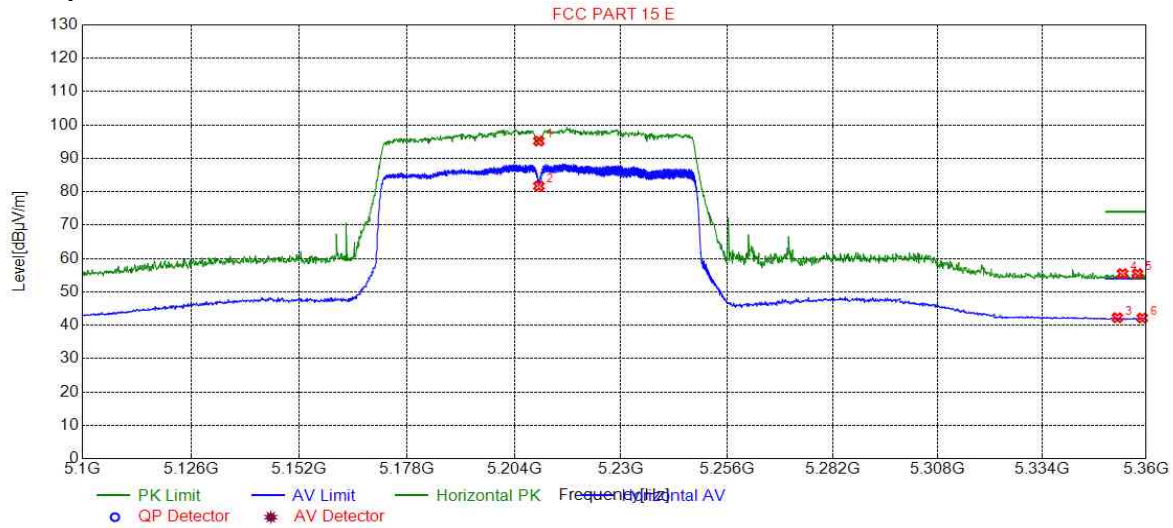


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4.10.1.80 802.11AC80_Channel 42

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	95.18	0.00	-95.18	150	217	Horizontal
2	5210.000	81.70	0.00	-81.70	150	226	Horizontal
3	5352.846	42.26	54.00	11.74	150	173	Horizontal
4	5354.147	55.47	74.00	18.53	150	221	Horizontal
5	5357.919	55.45	74.00	18.55	150	307	Horizontal
6	5359.089	42.18	54.00	11.82	150	231	Horizontal

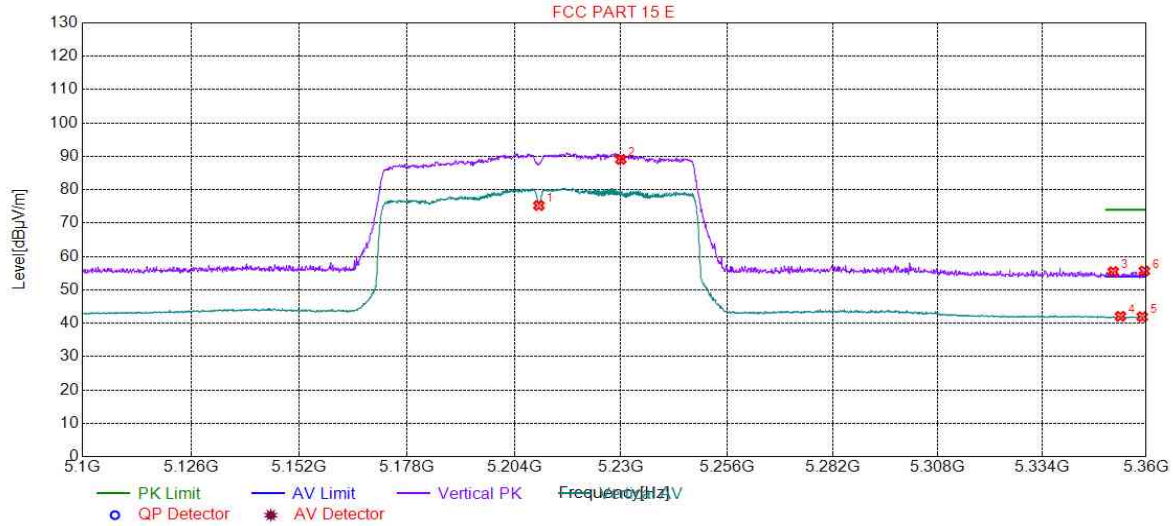
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4.10.1.81 802.11AC80_Channel 42

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	75.29	0.00	-75.29	150	49	Vertical
2	5230.000	89.11	0.00	-89.11	150	78	Vertical
3	5351.805	55.46	74.00	18.54	150	34	Vertical
4	5353.626	42.11	54.00	11.89	150	278	Vertical
5	5359.089	41.97	54.00	12.03	150	344	Vertical
6	5359.609	55.66	74.00	18.34	150	111	Vertical

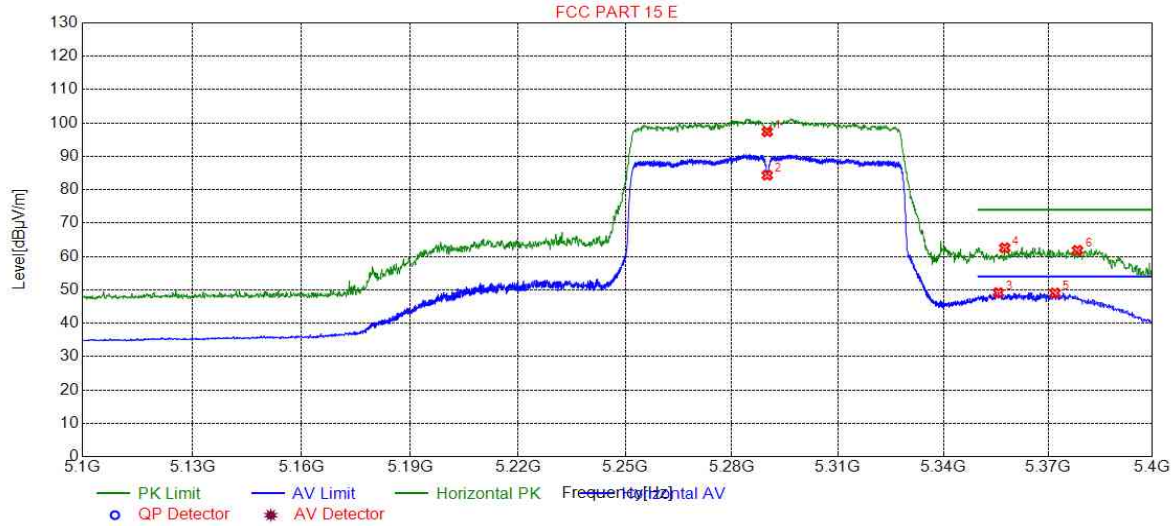
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4.10.1.82 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	97.38	0.00	-97.38	100	210	Horizontal
2	5290.000	84.34	0.00	-84.34	100	204	Horizontal
3	5355.727	49.16	54.00	4.84	100	204	Horizontal
4	5357.528	62.60	74.00	11.40	100	190	Horizontal
5	5371.936	49.06	54.00	4.94	100	210	Horizontal
6	5378.389	61.84	74.00	12.16	100	204	Horizontal

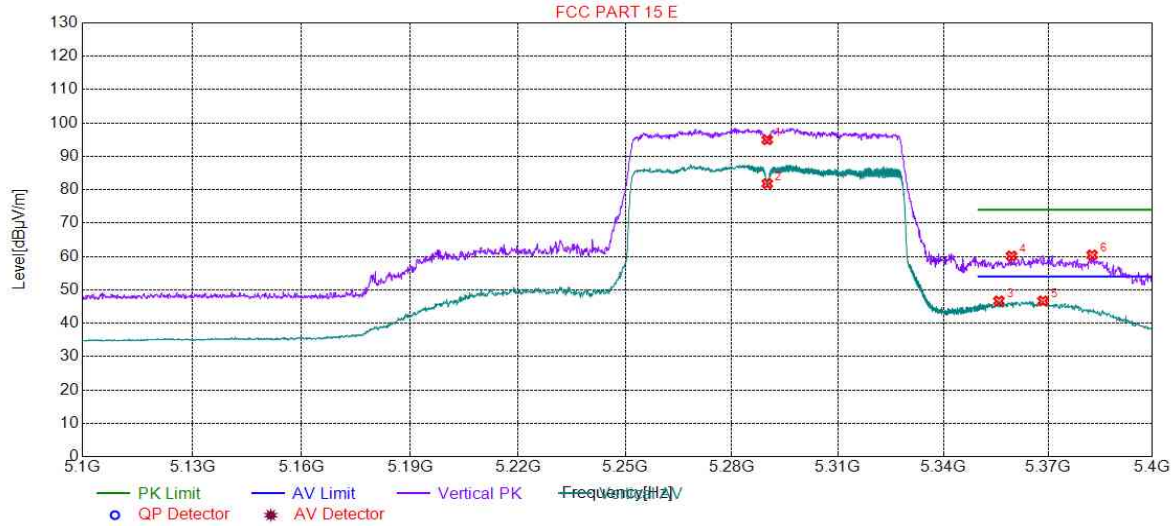
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4.10.1.83 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	94.97	0.00	-94.97	300	186	Vertical
2	5290.000	81.84	0.00	-81.84	300	186	Vertical
3	5355.877	46.70	54.00	7.30	300	191	Vertical
4	5359.479	60.15	74.00	13.85	300	186	Vertical
5	5368.484	46.68	54.00	7.32	300	191	Vertical
6	5382.591	60.46	74.00	13.54	300	186	Vertical

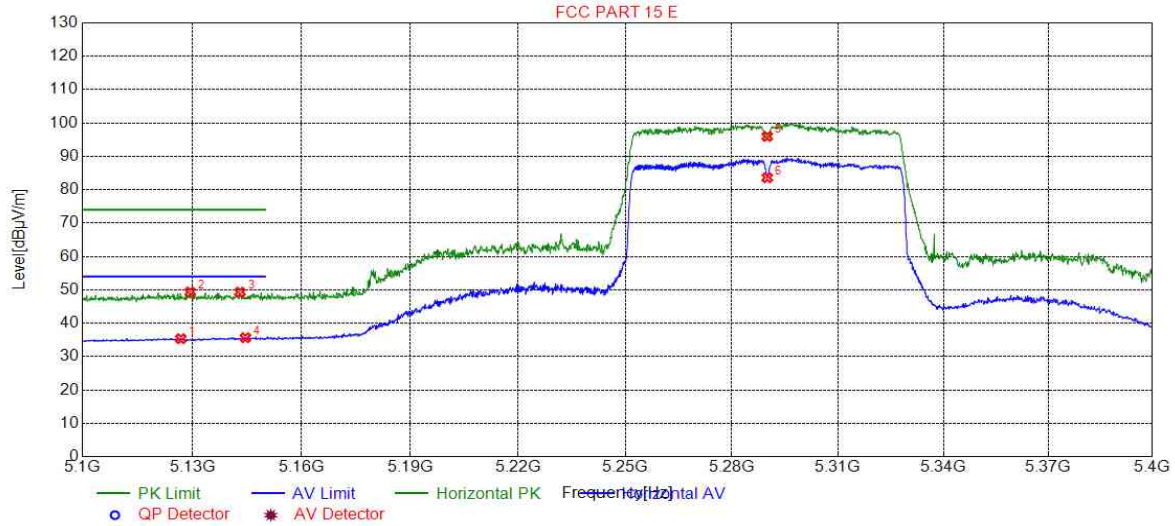
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4.10.1.84 802.11AC80_Channel 58

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5126.863	35.37	54.00	18.63	150	217	Horizontal
2	5129.414	49.36	74.00	24.64	150	202	Horizontal
3	5143.071	49.31	74.00	24.69	150	86	Horizontal
4	5144.572	35.68	54.00	18.32	150	208	Horizontal
5	5290.000	95.99	0.00	-95.99	150	208	Horizontal
6	5290.000	83.62	0.00	-83.62	150	208	Horizontal

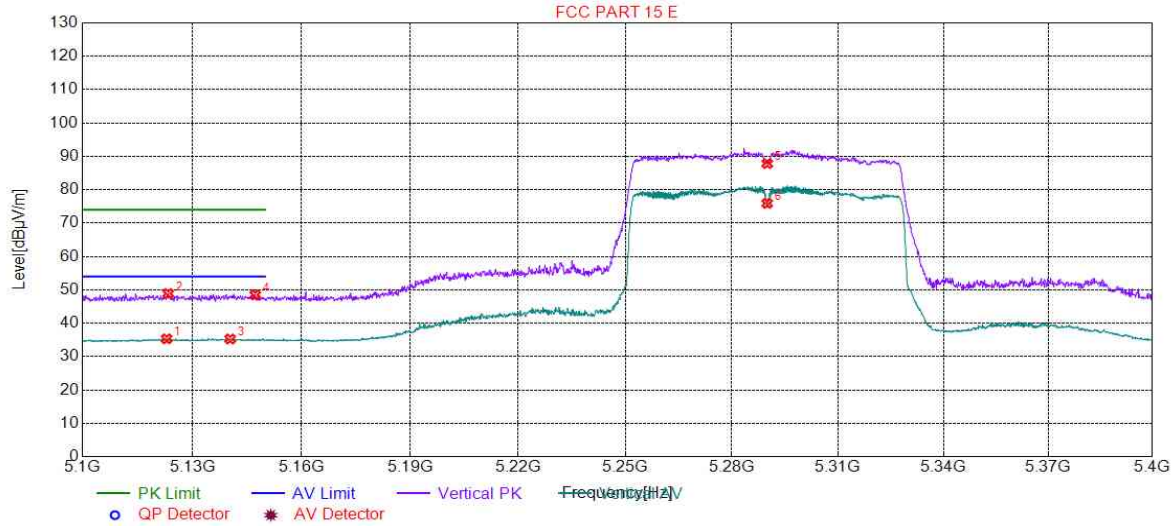
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4.10.1.85 802.11AC80_Channel 58

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5122.961	35.34	54.00	18.66	150	79	Vertical
2	5123.411	48.90	74.00	25.10	150	136	Vertical
3	5140.370	35.29	54.00	18.71	150	266	Vertical
4	5147.273	48.51	74.00	25.49	150	16	Vertical
5	5290.000	87.86	0.00	-87.86	150	84	Vertical
6	5290.000	75.94	0.00	-75.94	150	79	Vertical

Final Data List

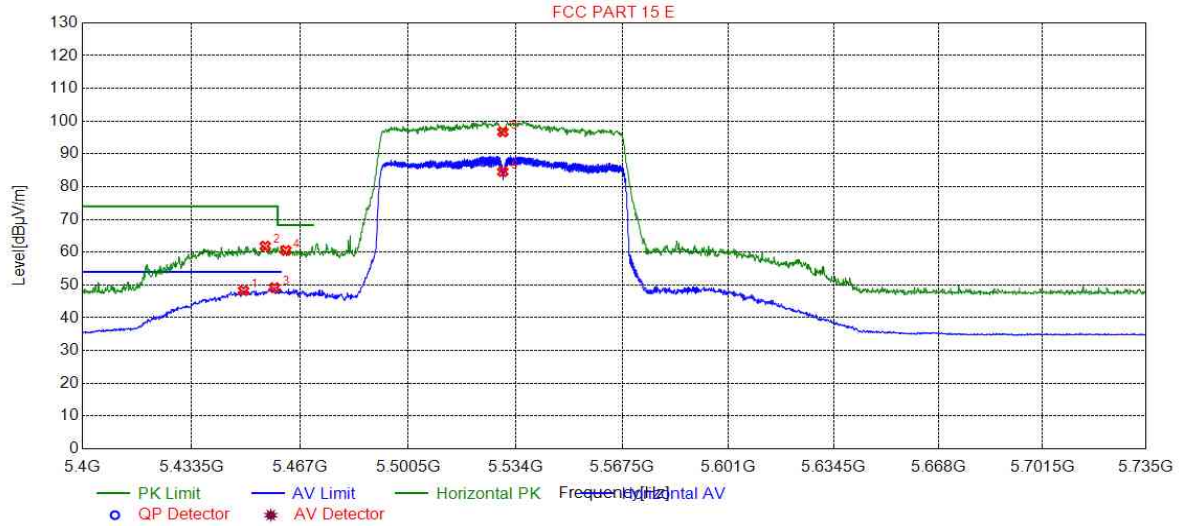


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4.10.1.86 802.11AC80_Channel 106

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5449.437	48.27	54.00	5.73	100	206	Horizontal
2	5456.140	61.87	74.00	12.13	100	197	Horizontal
3	5458.989	49.20	54.00	4.80	100	206	Horizontal
4	5462.508	60.55	68.30	7.75	100	206	Horizontal
5	5530.000	96.72	0.00	-96.72	100	206	Horizontal
6	5530.000	84.60	0.00	-84.60	100	206	Horizontal

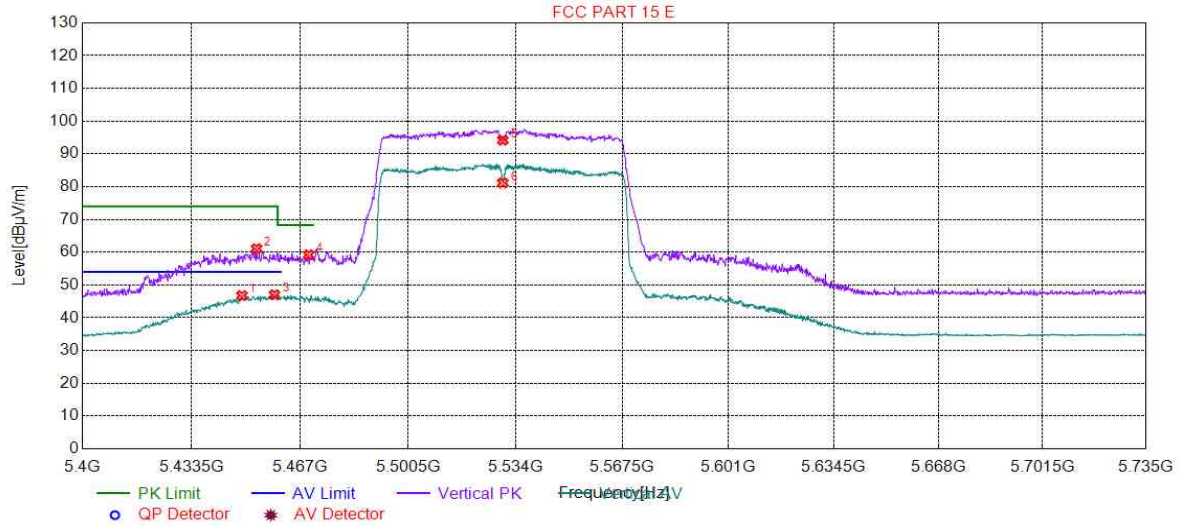
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4.10.1.87 802.11AC80_Channel 106

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5448.934	46.78	54.00	7.22	300	188	Vertical
2	5453.459	61.09	74.00	12.91	300	188	Vertical
3	5458.989	47.05	54.00	6.95	300	188	Vertical
4	5469.547	59.22	68.30	9.08	300	193	Vertical
5	5530.000	94.20	0.00	-94.20	300	188	Vertical
6	5530.000	81.15	0.00	-81.15	300	193	Vertical

Final Data List

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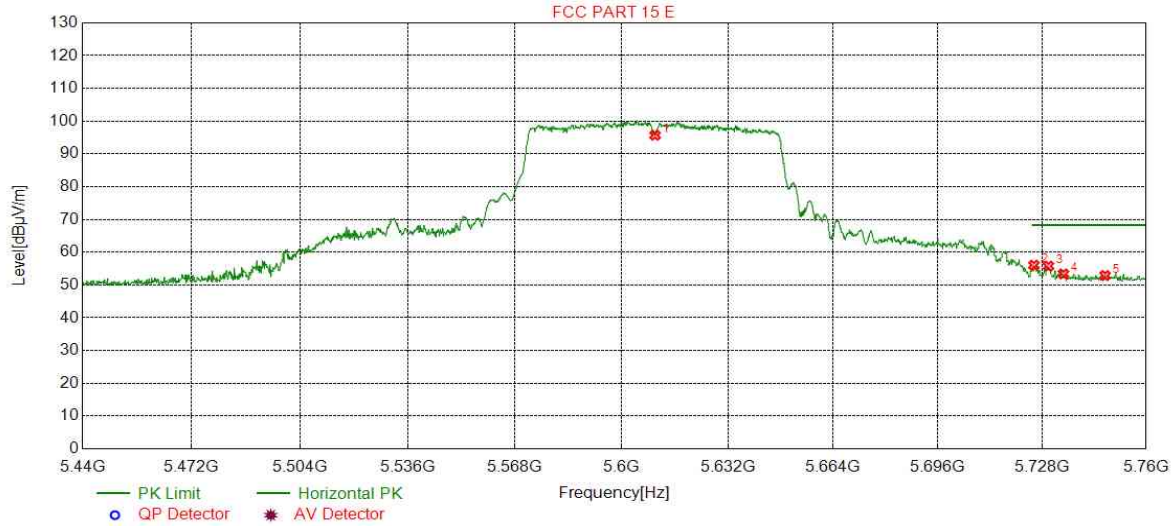


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4.10.1.88 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	95.70	0.00	-95.70	150	202	Horizontal
2	5725.422	56.04	68.30	12.26	150	28	Horizontal
3	5729.905	55.77	68.30	12.53	150	21	Horizontal
4	5734.547	53.39	68.30	14.91	150	46	Horizontal
5	5747.353	52.90	68.30	15.40	150	344	Horizontal

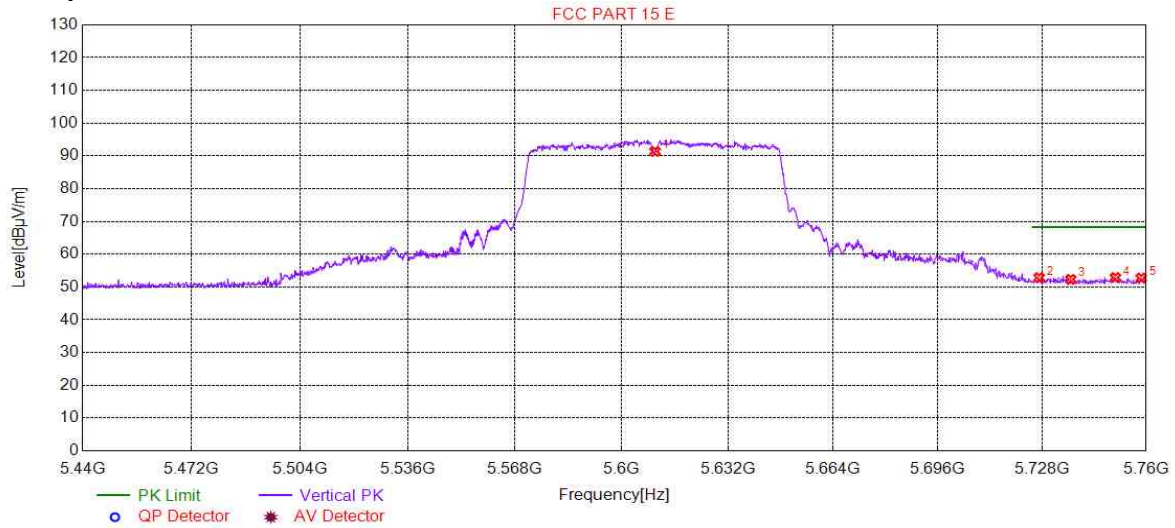
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4.10.1.89 802.11AC80_Channel 122

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	91.37	0.00	-91.37	150	19	Vertical
2	5727.023	52.88	68.30	15.42	150	340	Vertical
3	5736.788	52.35	68.30	15.95	150	33	Vertical
4	5750.555	52.90	68.30	15.40	150	97	Vertical
5	5758.559	52.73	68.30	15.57	150	40	Vertical

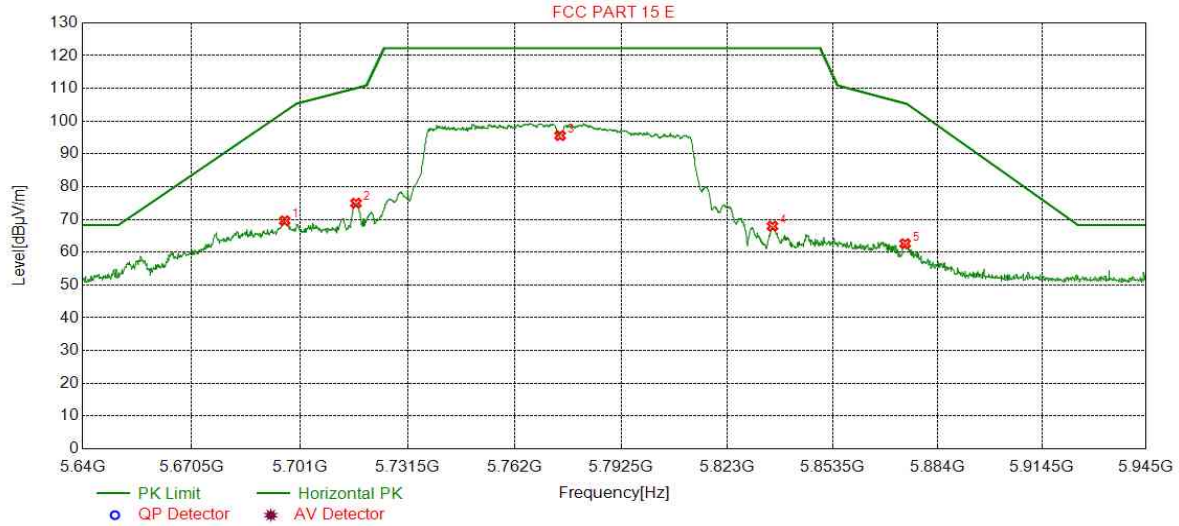
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4.10.1.90 802.11AC80_Channel 155

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5696.758	69.60	102.90	33.30	150	20	Horizontal
2	5716.898	74.98	110.03	35.05	150	337	Horizontal
3	5775.000	95.59	122.30	26.71	150	45	Horizontal
4	5836.060	67.97	122.30	54.33	150	211	Horizontal
5	5874.509	62.63	105.44	42.81	150	207	Horizontal

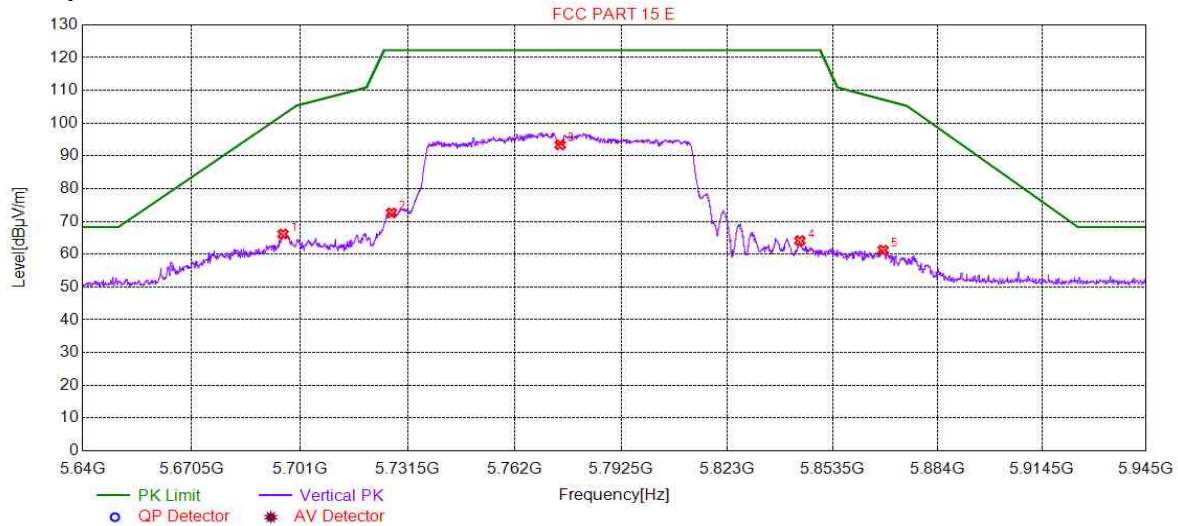
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4.10.1.91 802.11AC80_Channel 155

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5696.300	66.17	102.56	36.39	150	34	Vertical
2	5726.968	72.63	122.30	49.67	150	30	Vertical
3	5775.000	93.40	122.30	28.90	150	30	Vertical
4	5843.994	64.16	122.30	58.14	150	95	Vertical
5	5868.101	61.27	107.23	45.96	150	34	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All modes have been tested, but only the worst case data displayed in this report.



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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.009345	5825.001199
V max(V)	5180.012295	5825.009792
V min(V)	5180.018533	5825.011026
Max. Deviation Frequency	0.018533	0.011026
Max. Frequency Error (ppm)	3.577893	1.892941

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.000734	5825.004603
5	5180.010448	5825.014376
15	5180.018875	5825.019858
25	5180.025197	5825.026784
35	5180.027947	5825.028960
45	5180.031161	5825.032557
50	5180.036126	5825.038227
Max. Deviation Frequency	0.036126	0.038227
Max. Frequency Error (ppm)	6.974128	6.562510



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4.12 Dynamic Frequency Selection
4.12.1 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
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<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
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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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>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.</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>Note 1: <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. Note 2: 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. Note 3: 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

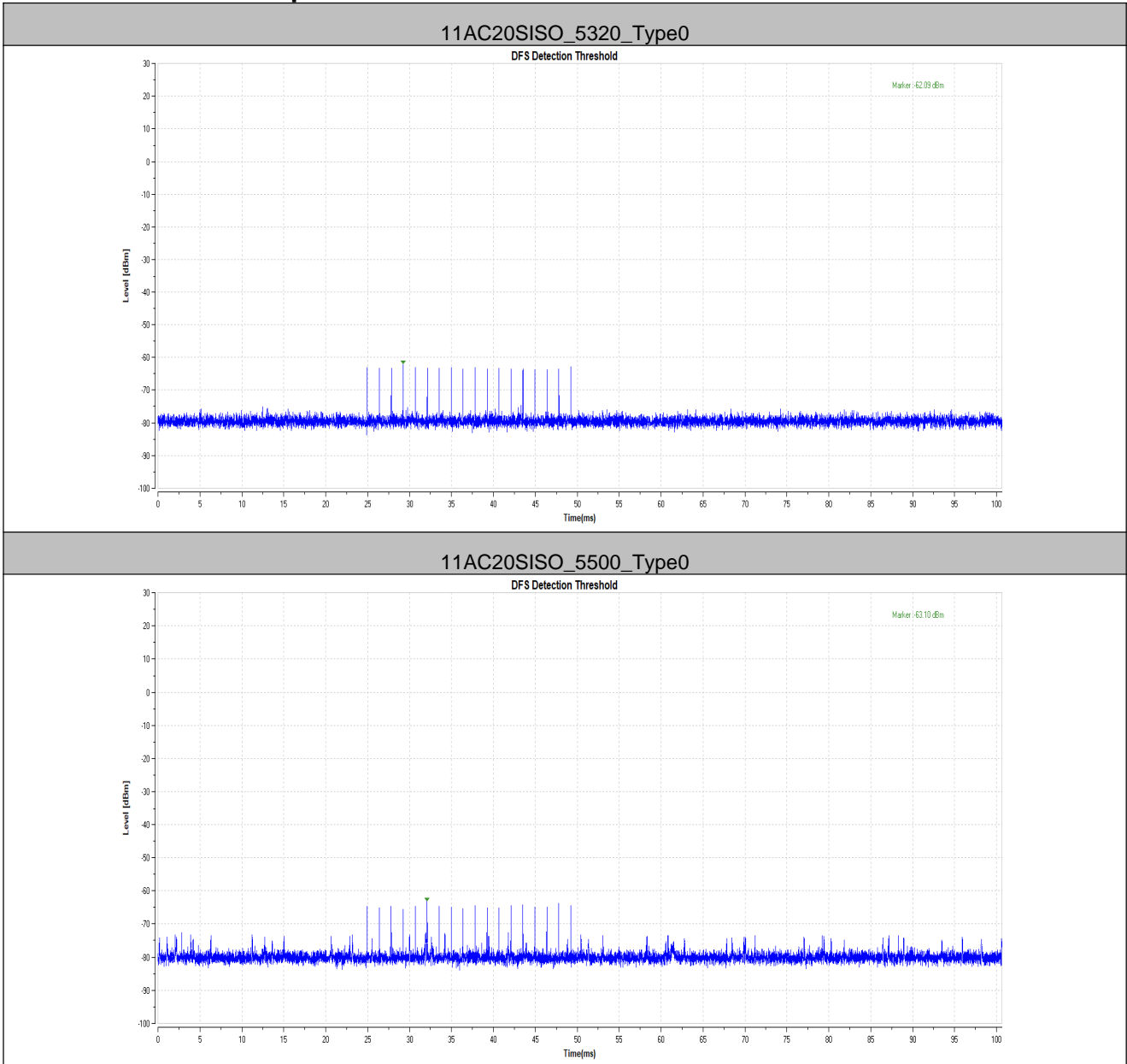
4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.09	-62.00	PASS
	5500	Type0	-63.10	-62.00	PASS
11AC80SISO	5290	Type0	-64.07	-62.00	PASS
	5530	Type0	-63.32	-62.00	PASS



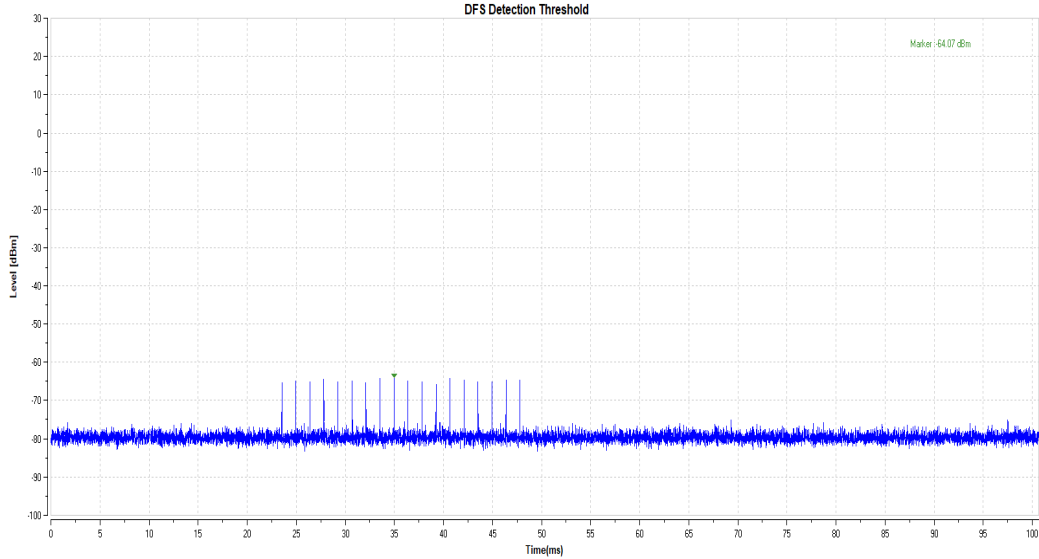
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4.12.4.1.2 Test Graphs

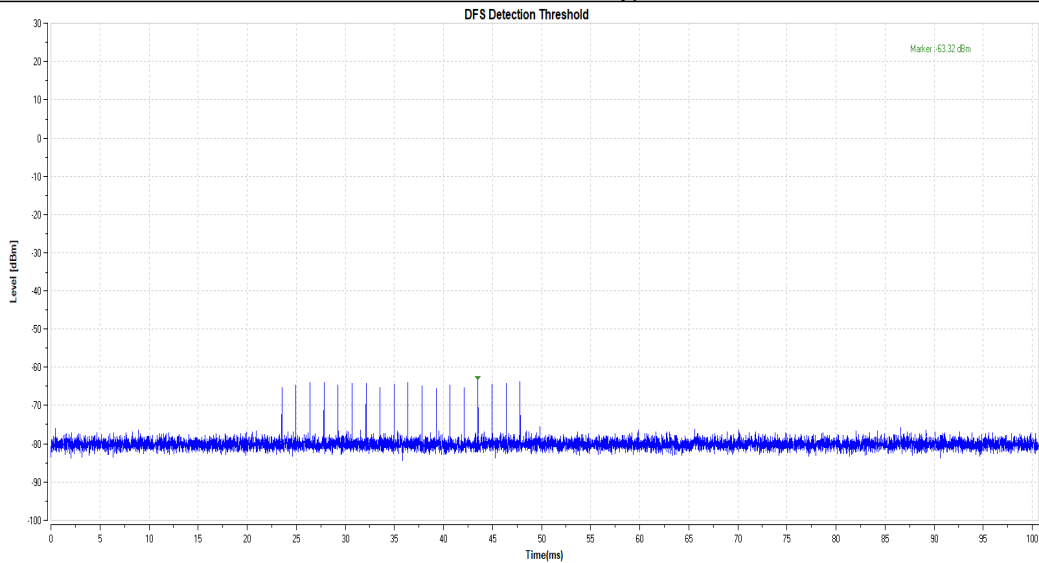


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11AC80SISO_5290_Type0



11AC80SISO_5530_Type0



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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

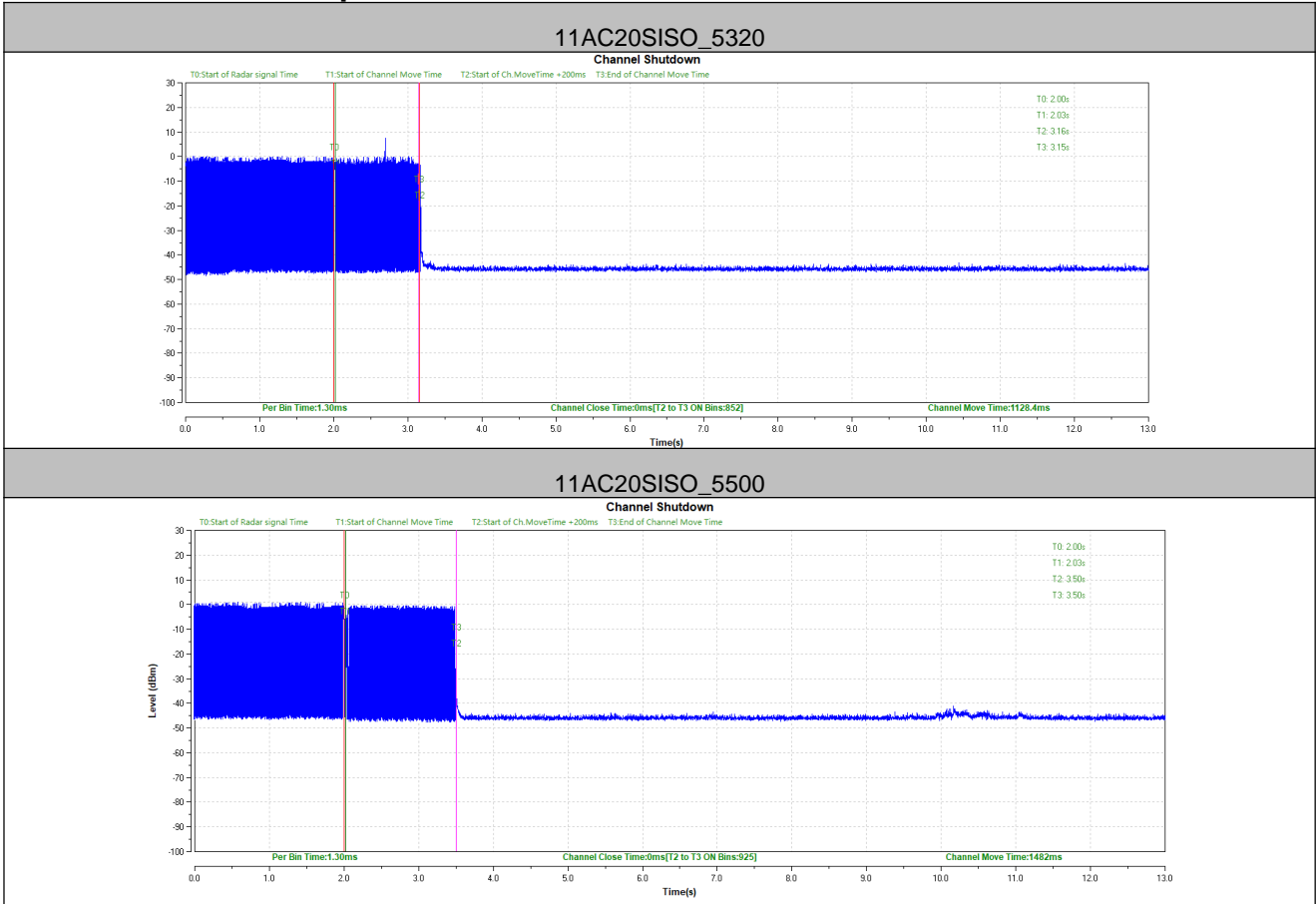
4.12.4.2.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	0	60	1128.4	10000	PASS
	5500	0	60	1402	10000	PASS
11AC80SISO	5290	0	60	203.8	10000	PASS
	5530	0	60	206.7	10000	PASS



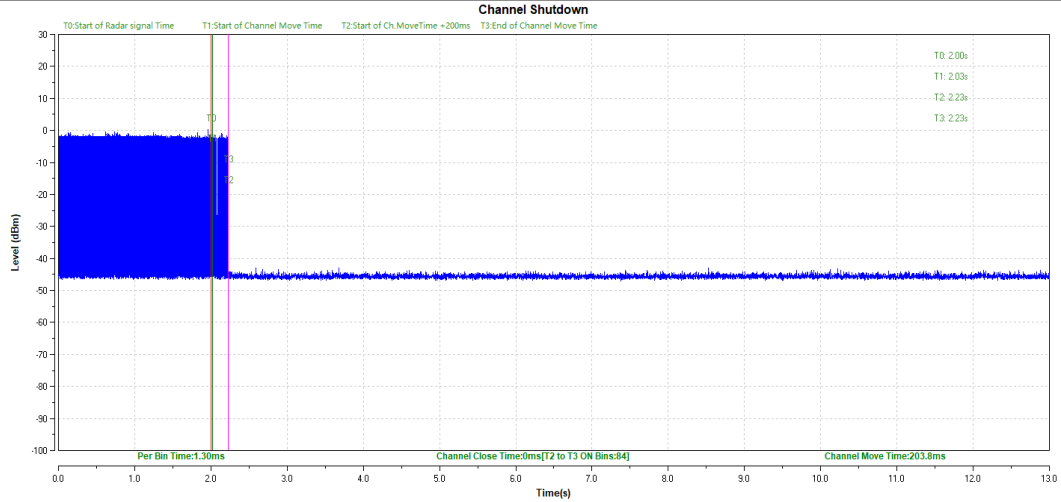
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4.12.4.2.2 Test Graphs

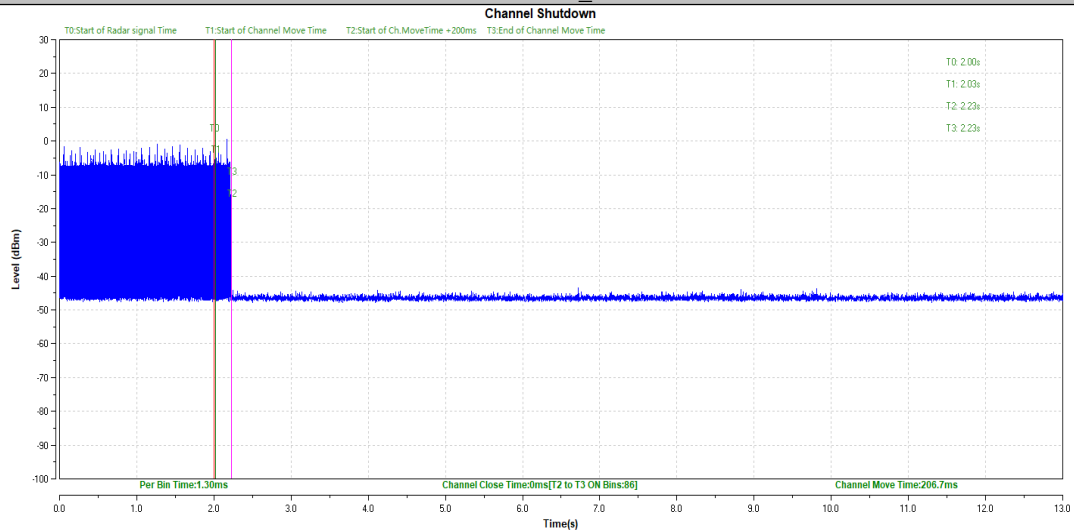


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11AC80SISO_5290



11AC80SISO_5530



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4.12.4.3 Non-Occupancy Period

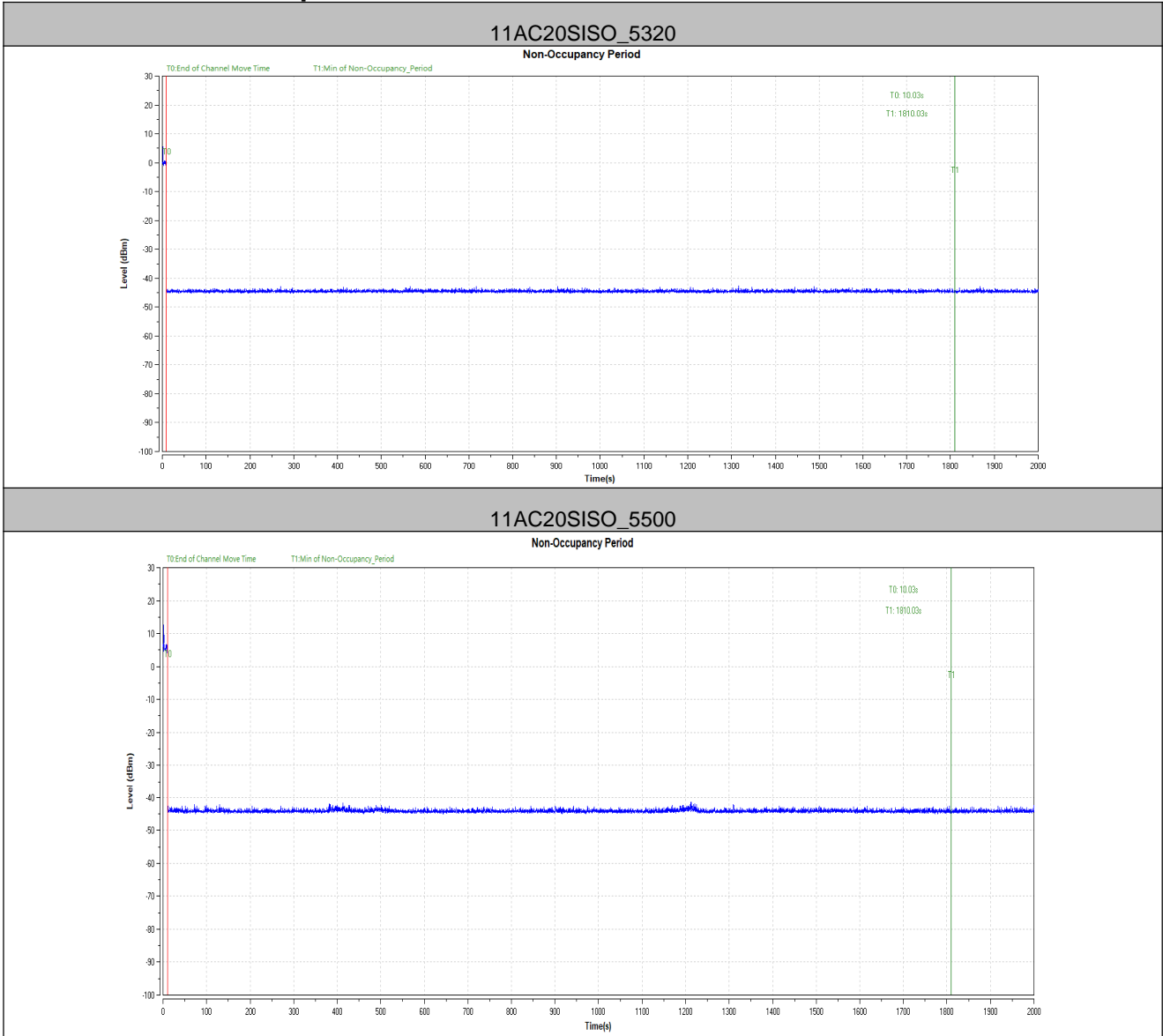
4.12.4.3.1 Test Result

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



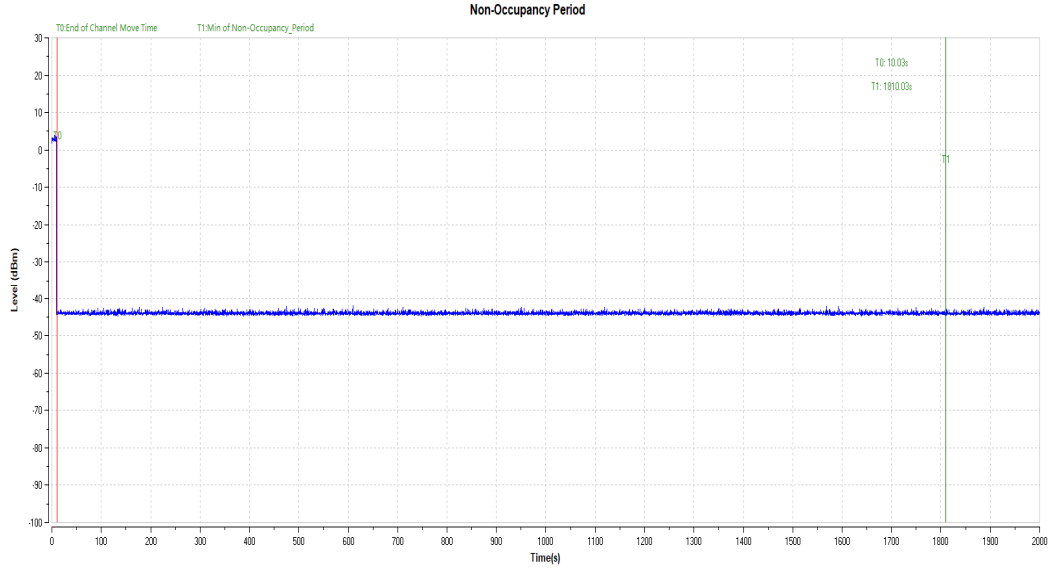
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4.12.4.3.2 Test Graphs

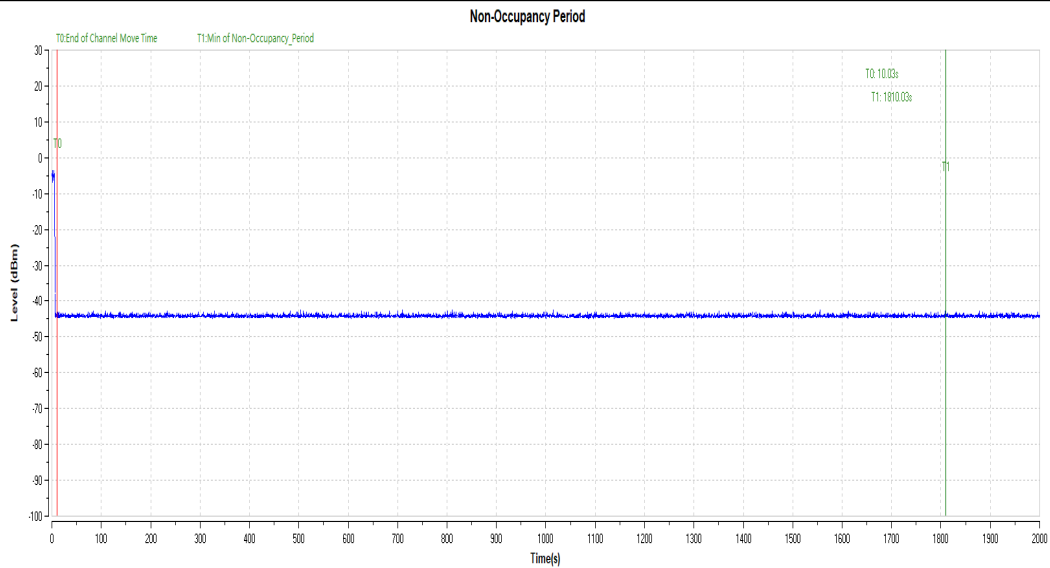


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11AC80SISO_5290



11AC80SISO_5530



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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



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 - Photographs of Set-Up for AR/2020/C0004.



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26db Emission Bandwidth
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.830	5168.630	5191.460	---	PASS
		5200	22.860	5188.690	5211.550	---	PASS
		5240	22.920	5228.630	5251.550	---	PASS
		5260	23.250	5248.630	5271.880	---	PASS
		5300	24.180	5288.240	5312.420	---	PASS
		5320	23.970	5308.540	5332.510	---	PASS
		5500	23.820	5488.570	5512.390	---	PASS
		5580	22.680	5568.960	5591.640	---	PASS
		5700	23.490	5688.840	5712.330	---	PASS
		5745	21.720	5734.200	5755.920	---	PASS
		5785	21.870	5774.110	5795.980	---	PASS
		5825	21.660	5814.230	5835.890	---	PASS
11N20SISO	Ant1	5180	23.460	5168.480	5191.940	---	PASS
		5200	23.640	5188.450	5212.090	---	PASS
		5240	23.460	5228.360	5251.820	---	PASS
		5260	23.340	5248.480	5271.820	---	PASS
		5300	24.450	5288.570	5313.020	---	PASS
		5320	24.570	5308.360	5332.930	---	PASS
		5500	28.650	5486.320	5514.970	---	PASS
		5580	23.460	5568.540	5592.000	---	PASS
		5700	24.450	5688.480	5712.930	---	PASS
		5745	22.890	5733.690	5756.580	---	PASS
		5785	22.980	5773.660	5796.640	---	PASS
		5825	23.100	5813.720	5836.820	---	PASS
11N40SISO	Ant1	5190	41.700	5169.360	5211.060	---	PASS
		5230	41.460	5209.300	5250.760	---	PASS
		5270	41.760	5249.300	5291.060	---	PASS
		5310	41.880	5289.240	5331.120	---	PASS
		5510	42.000	5489.060	5531.060	---	PASS
		5550	42.240	5528.880	5571.120	---	PASS



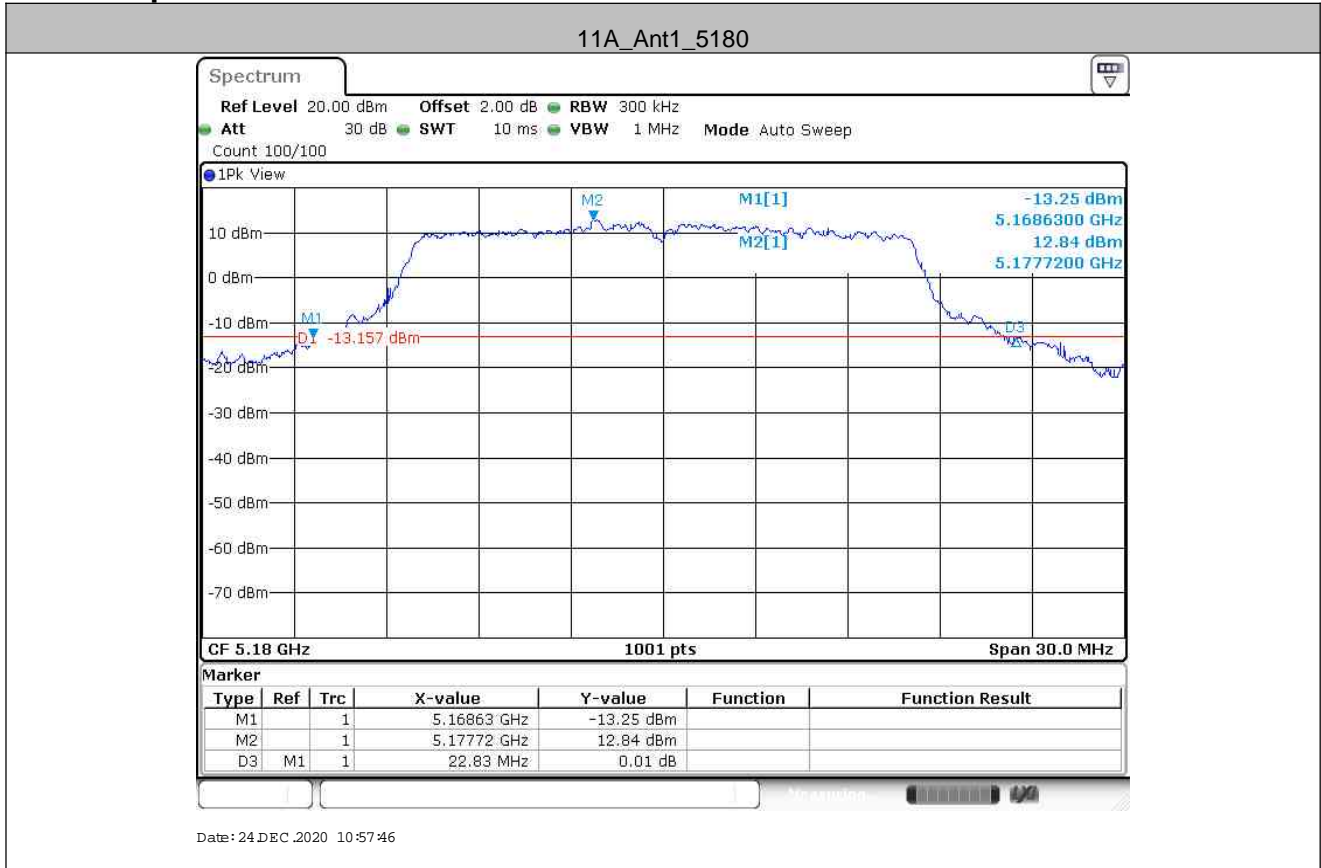
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		5670	43.500	5647.560	5691.060	---	PASS
		5755	42.180	5733.580	5775.760	---	PASS
		5795	41.820	5773.880	5815.700	---	PASS
11AC20SISO	Ant1	5180	23.760	5168.060	5191.820	---	PASS
		5200	23.340	5188.450	5211.790	---	PASS
		5240	22.650	5228.720	5251.370	---	PASS
		5260	24.780	5248.390	5273.170	---	PASS
		5300	23.430	5288.540	5311.970	---	PASS
		5320	24.510	5308.390	5332.900	---	PASS
		5500	22.860	5488.600	5511.460	---	PASS
		5580	23.280	5568.510	5591.790	---	PASS
		5700	24.390	5688.510	5712.900	---	PASS
		5745	23.640	5733.060	5756.700	---	PASS
		5745	23.670	5733.270	5756.940	---	PASS
		5785	22.710	5773.660	5796.370	---	PASS
		5825	23.400	5813.510	5836.910	---	PASS
		11AC40SISO	Ant1	5190	41.940	5169.180	5211.120
5230	41.880			5209.240	5251.120	---	PASS
5270	48.240			5243.060	5291.300	---	PASS
5310	51.240			5280.180	5331.420	---	PASS
5510	50.820			5480.420	5531.240	---	PASS
5550	50.700			5520.480	5571.180	---	PASS
5670	45.060			5646.120	5691.180	---	PASS
5755	41.880			5733.820	5775.700	---	PASS
5795	41.820			5773.880	5815.700	---	PASS
11AC80SISO	Ant1	5210	83.400	5168.240	5251.640	---	PASS
		5290	83.040	5248.720	5331.760	---	PASS
		5530	110.520	5471.320	5581.840	---	PASS
		5610	94.440	5562.480	5656.920	---	PASS
		5775	84.240	5732.520	5816.760	---	PASS

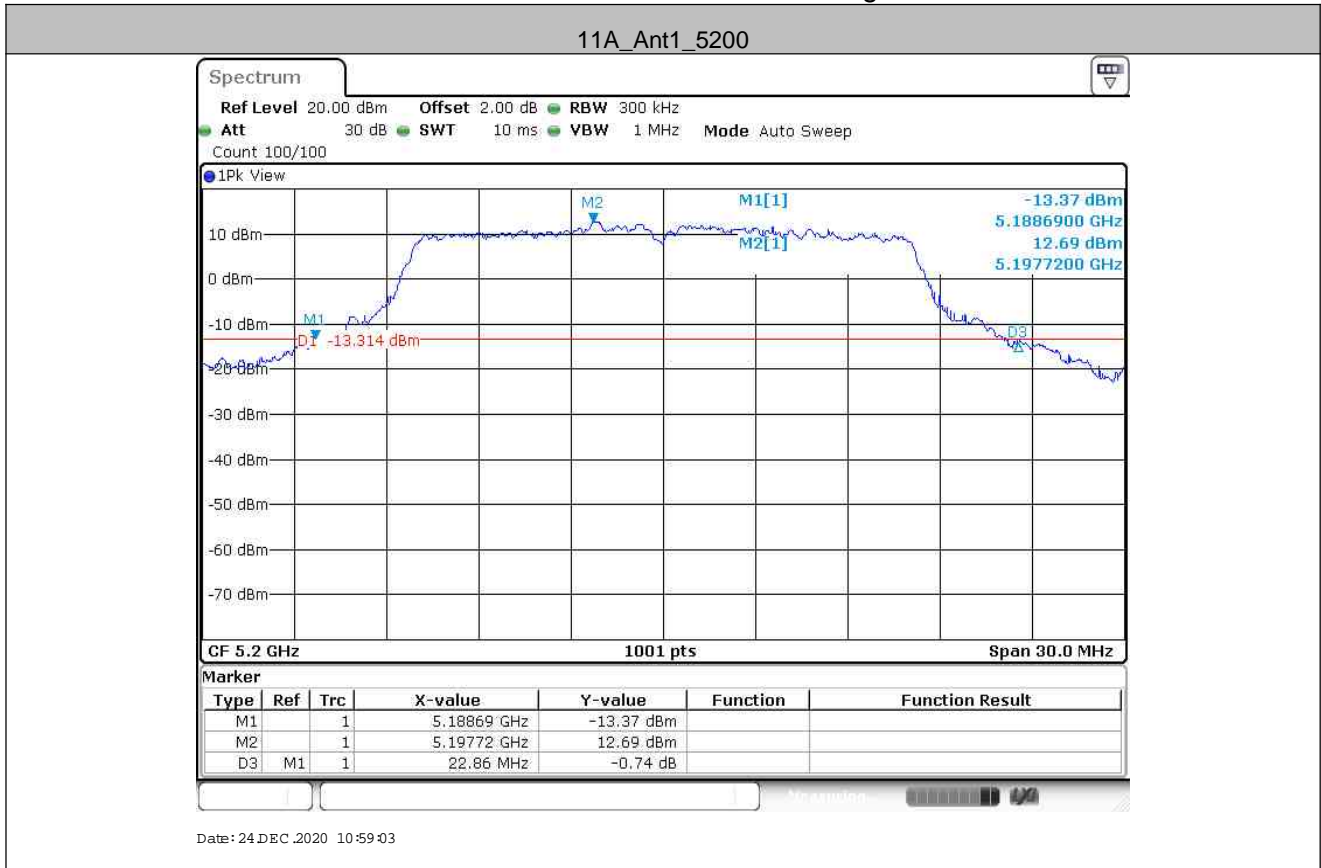


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Test Graphs

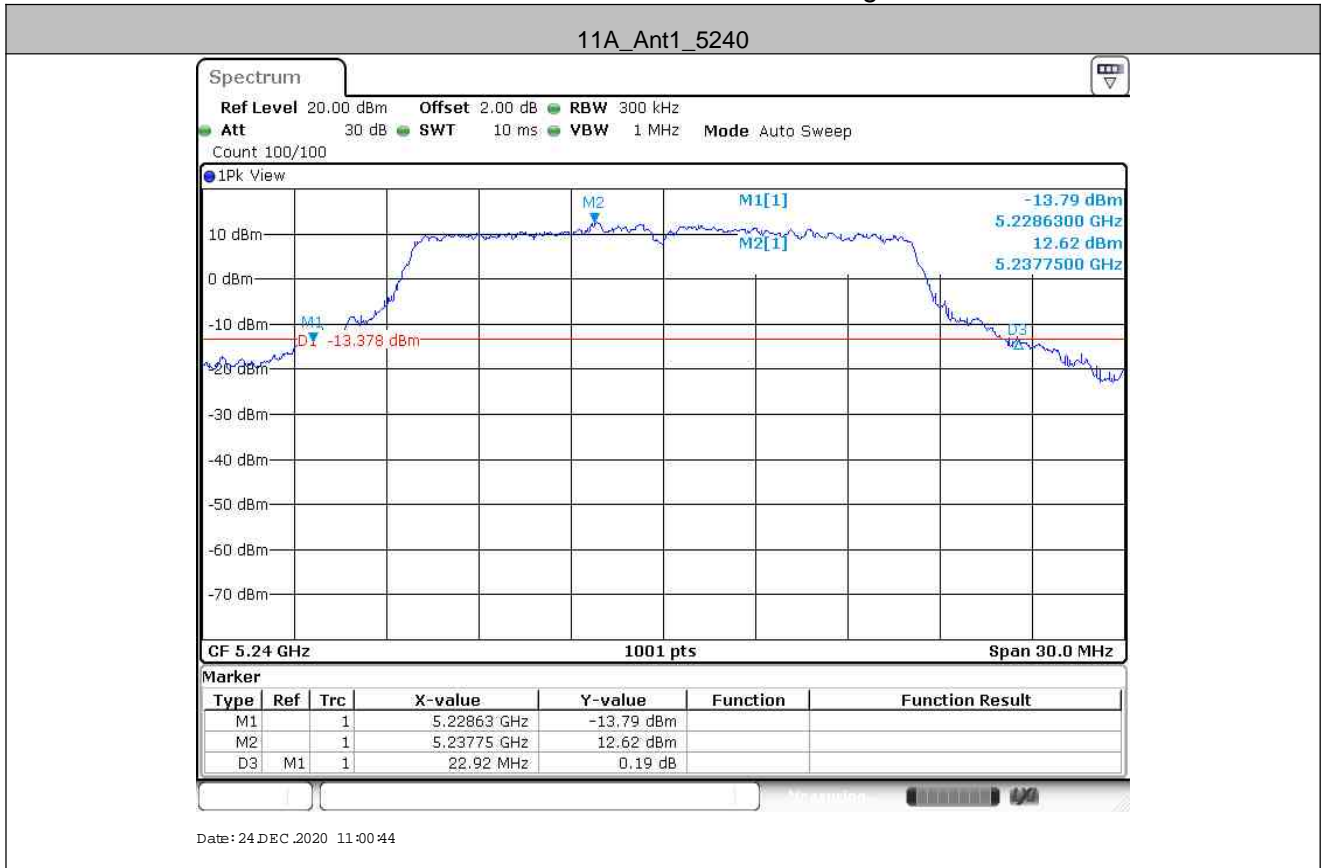


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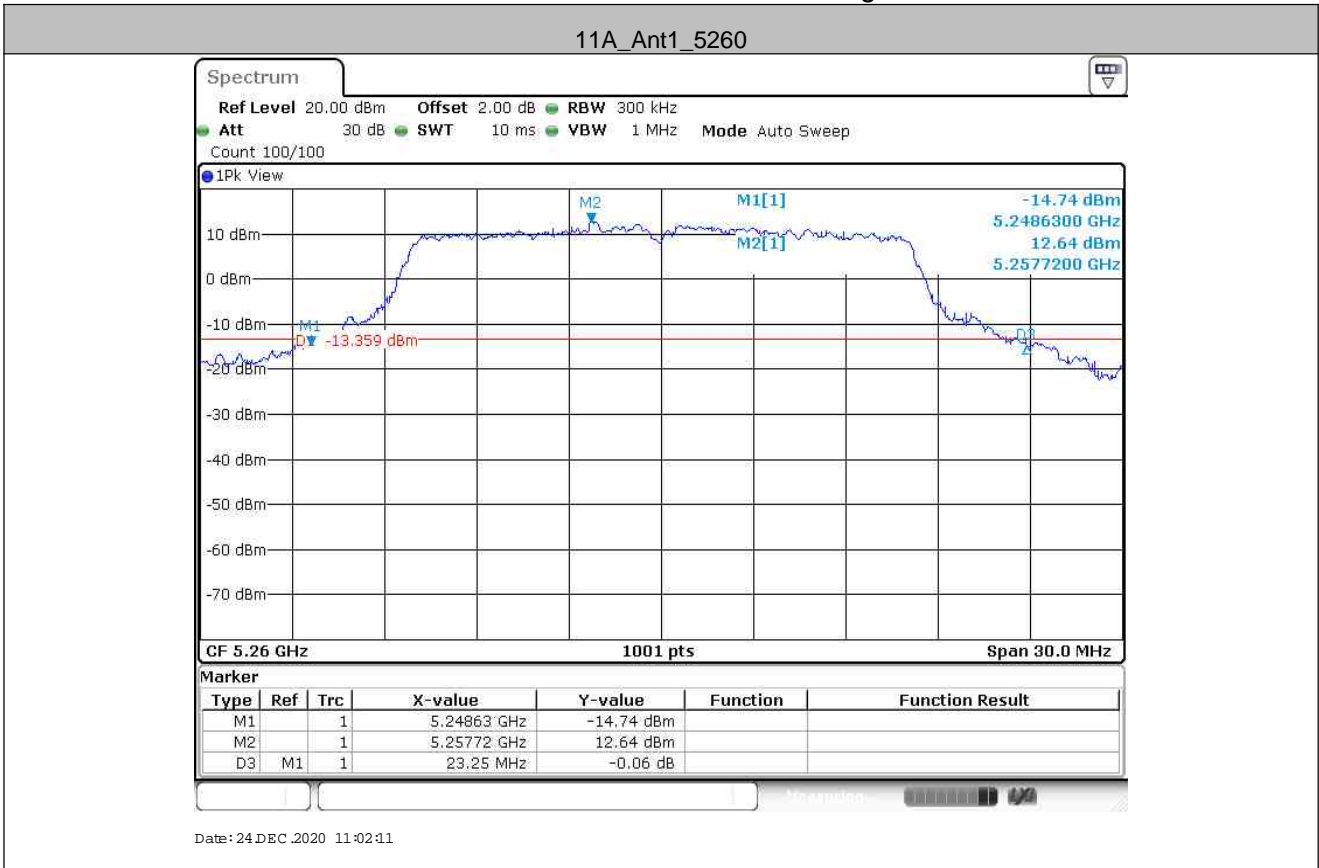
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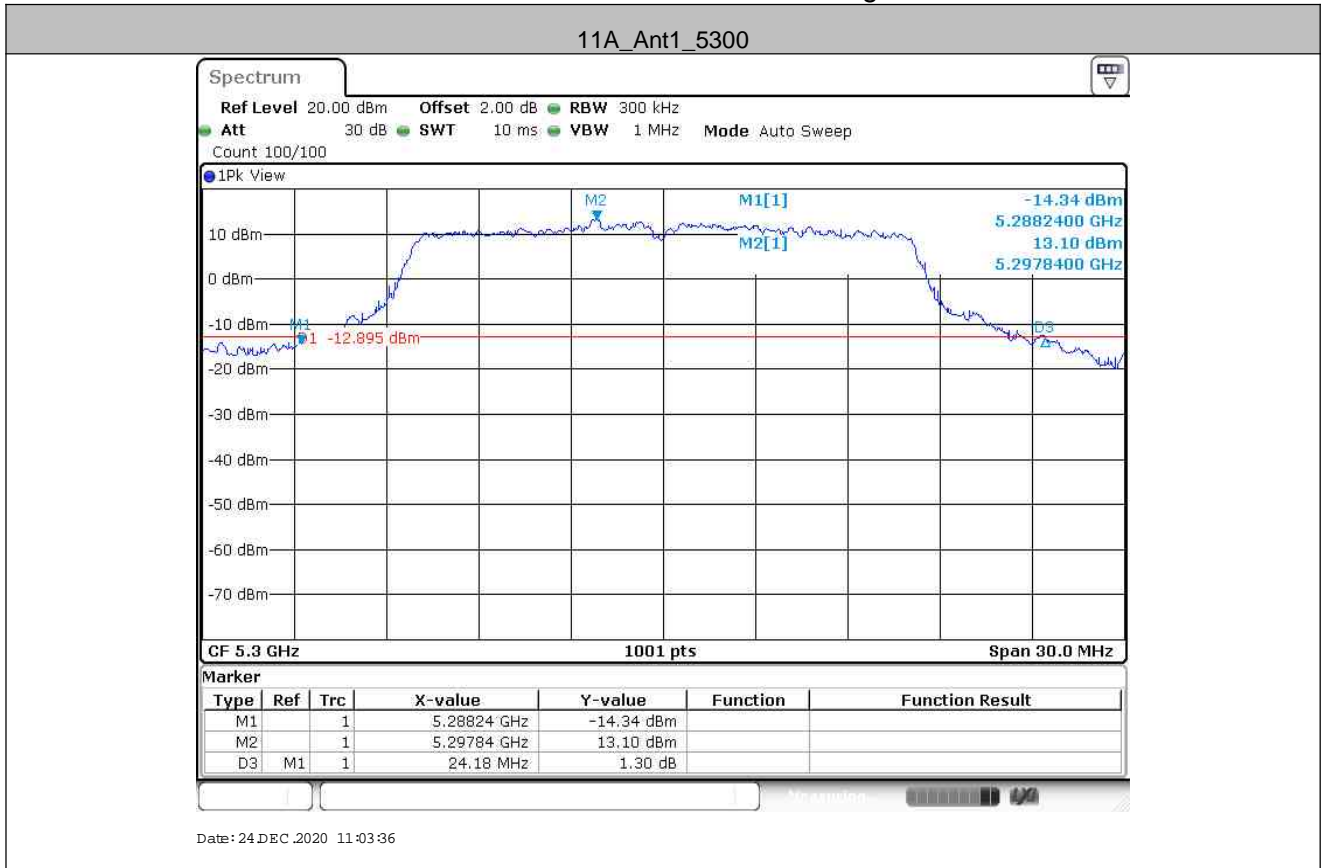


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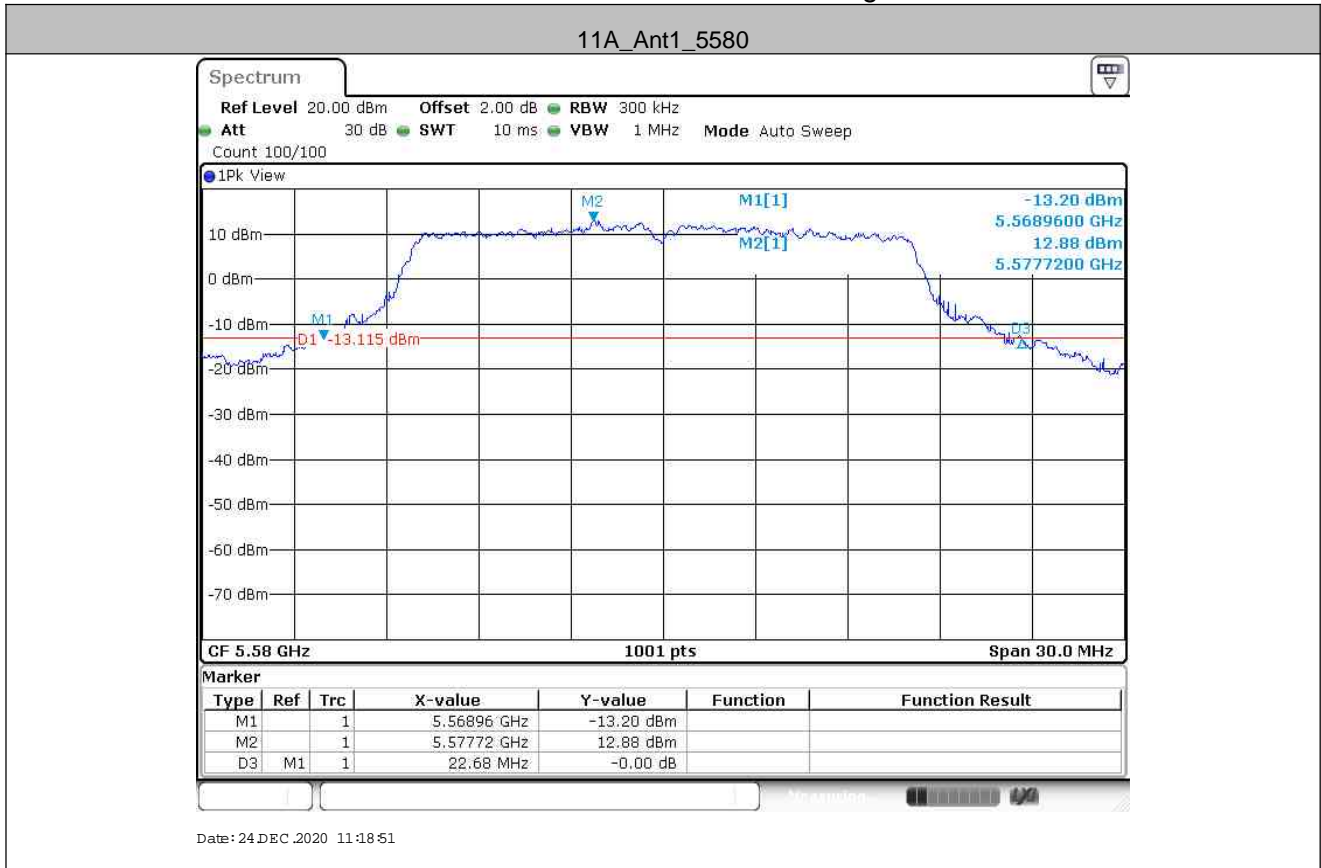
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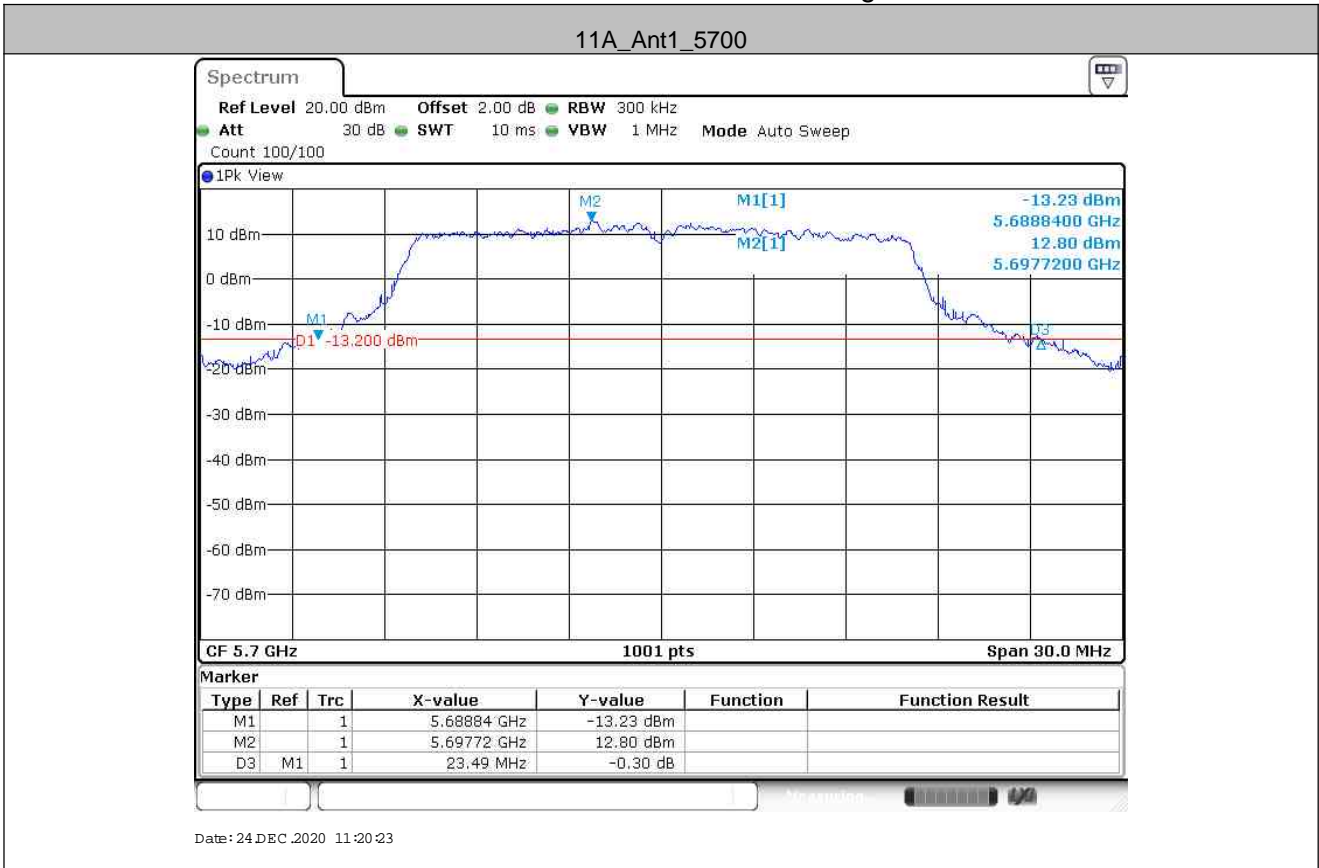
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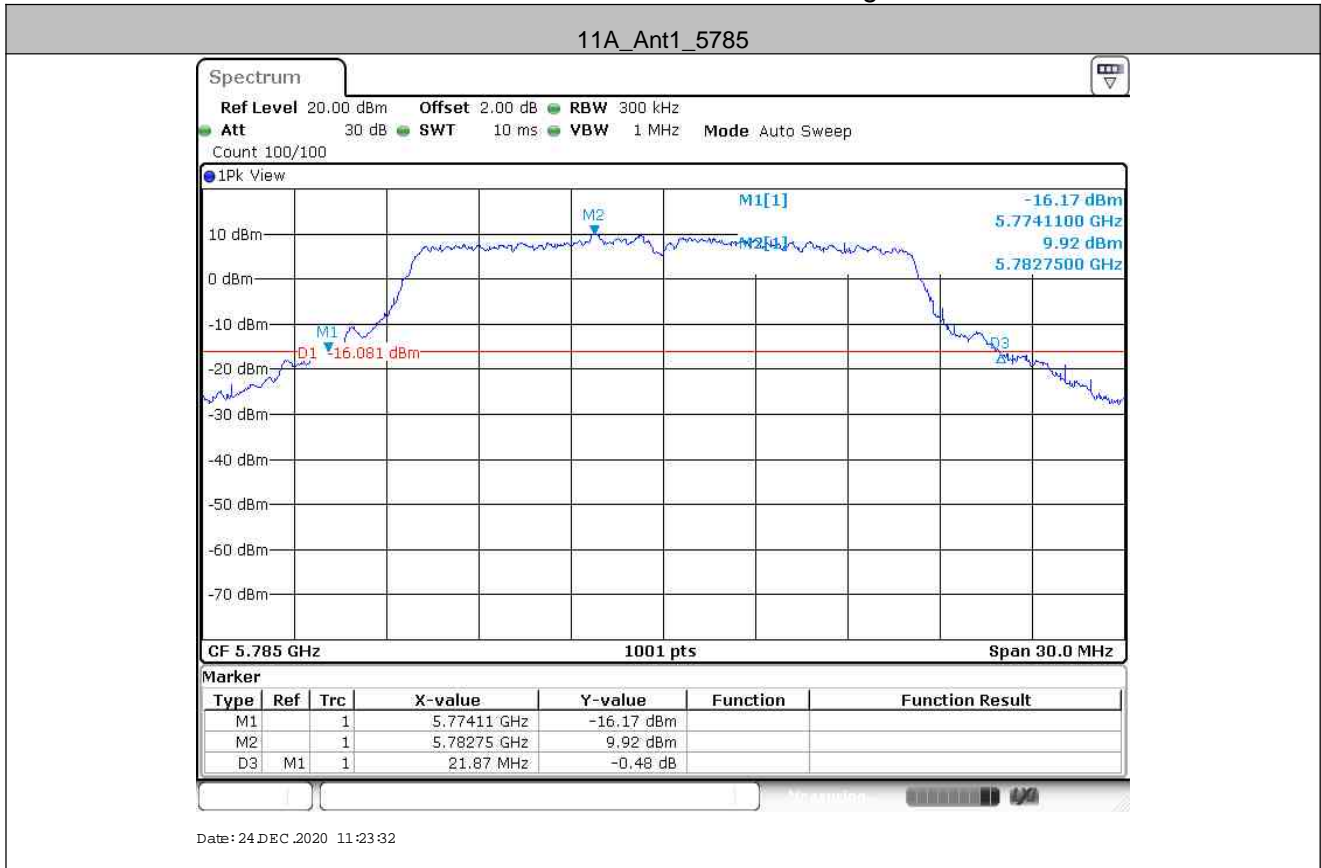


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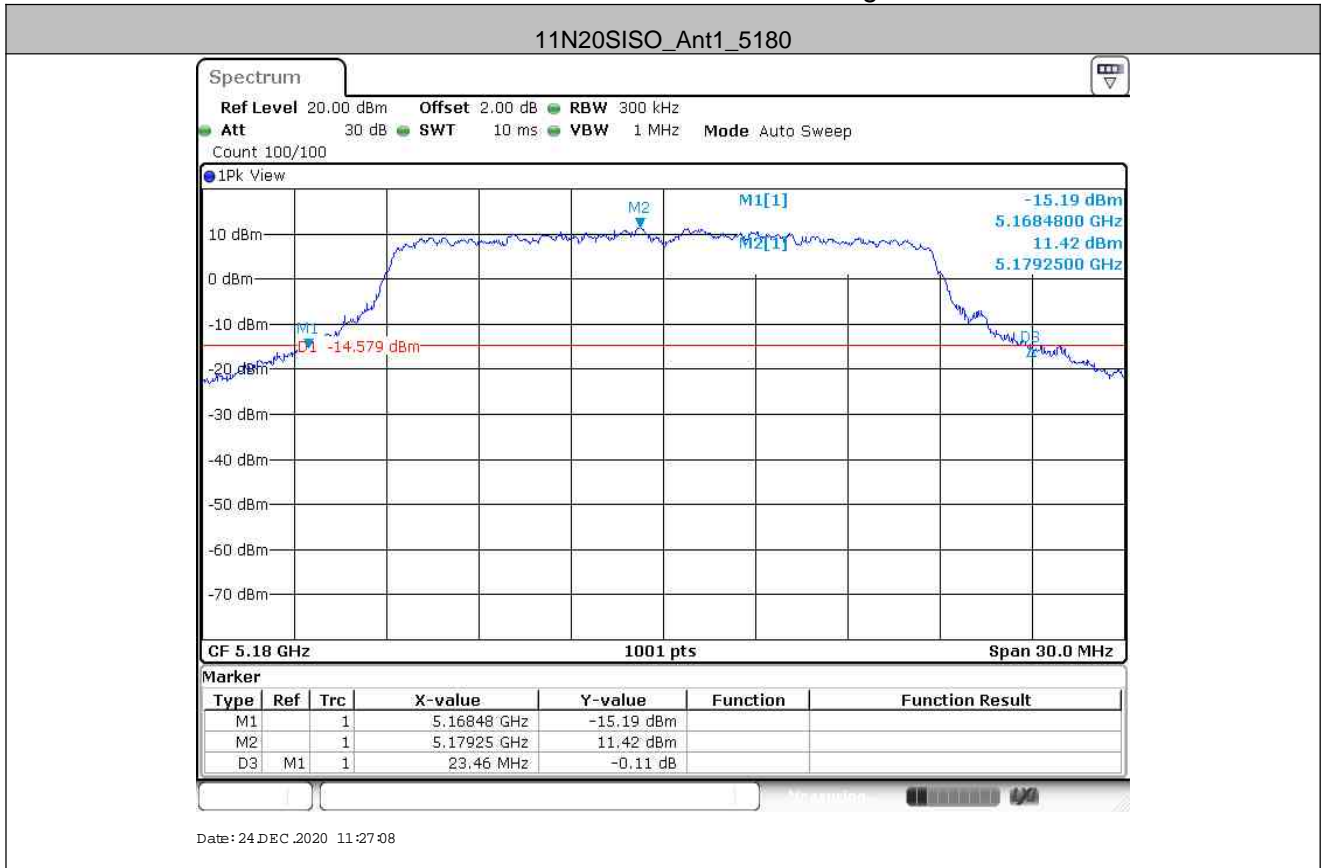
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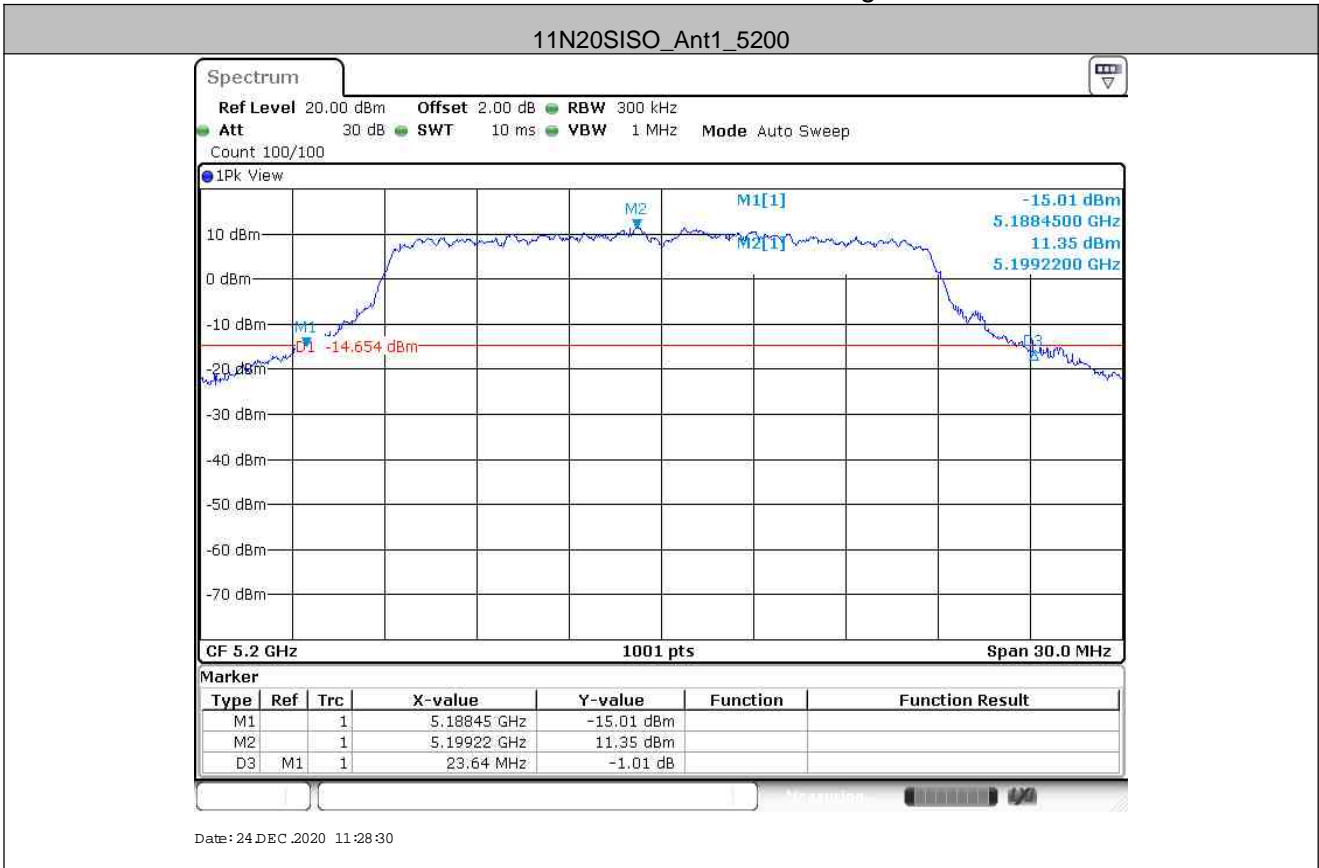


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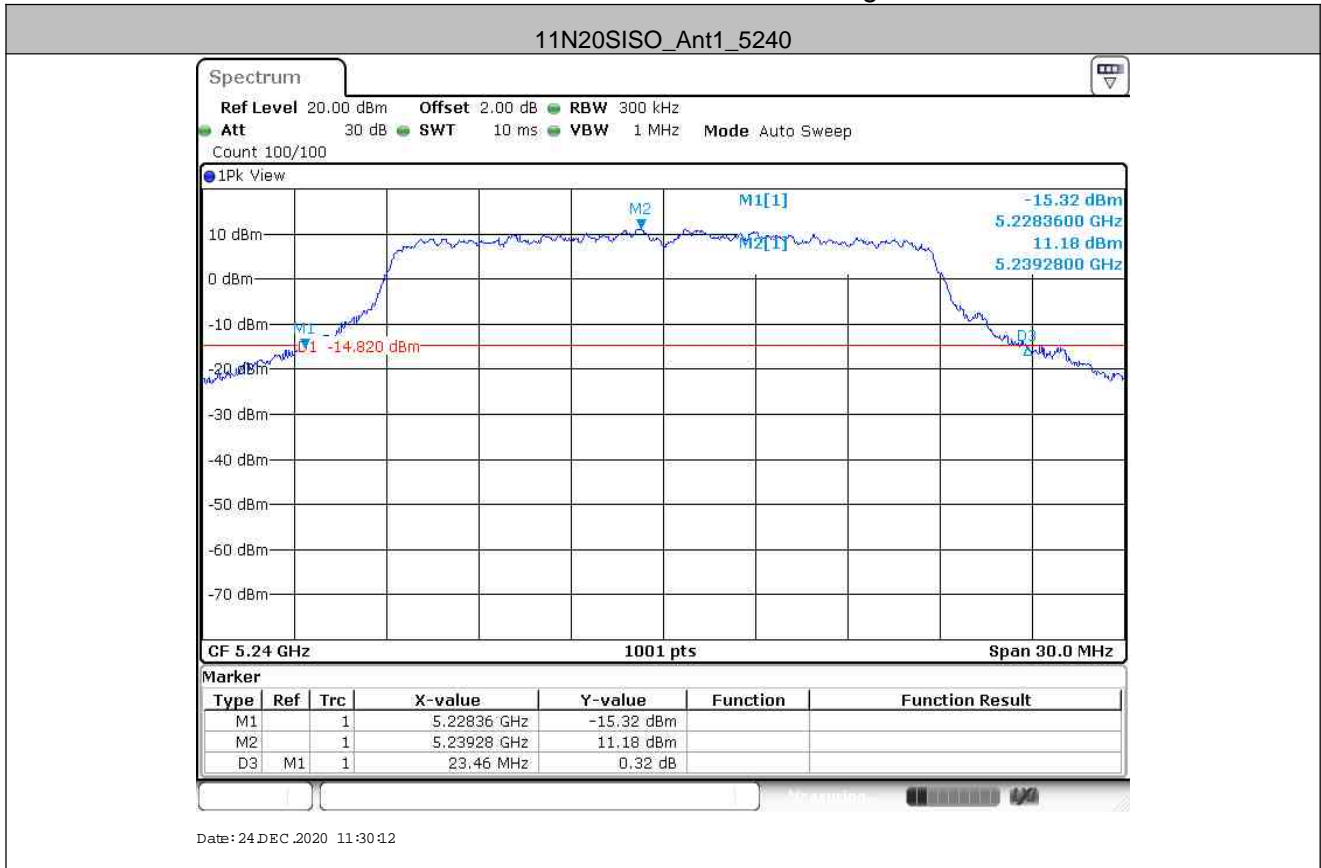


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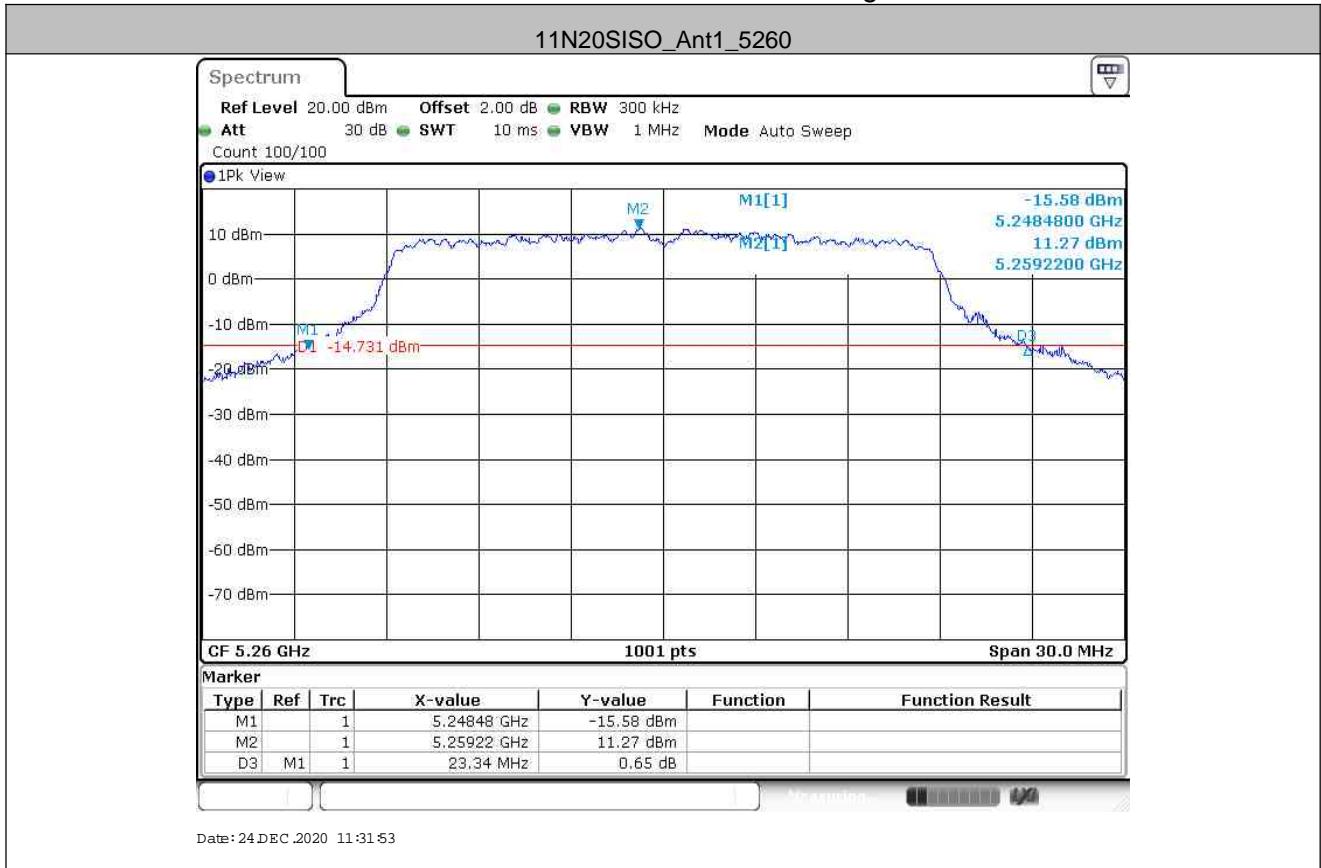
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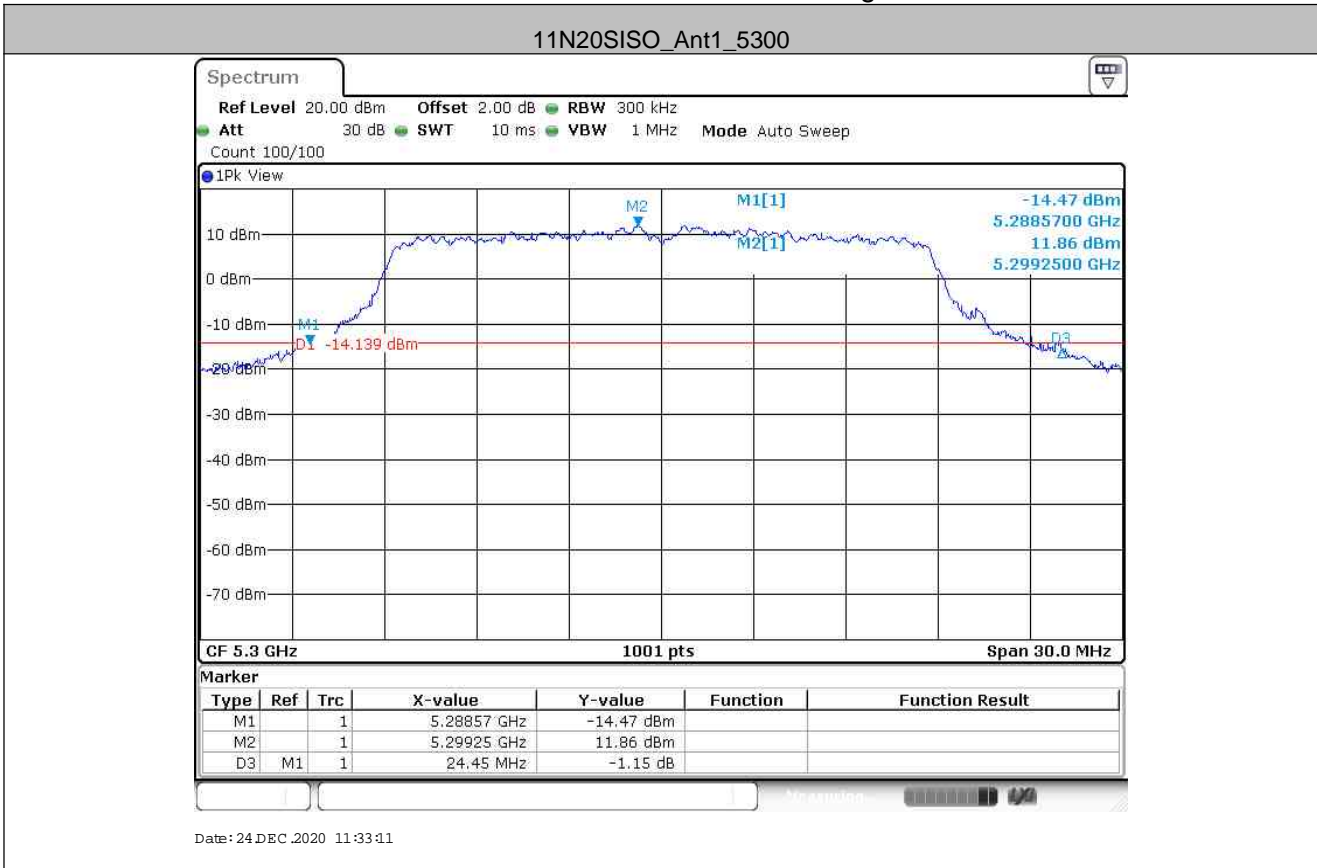
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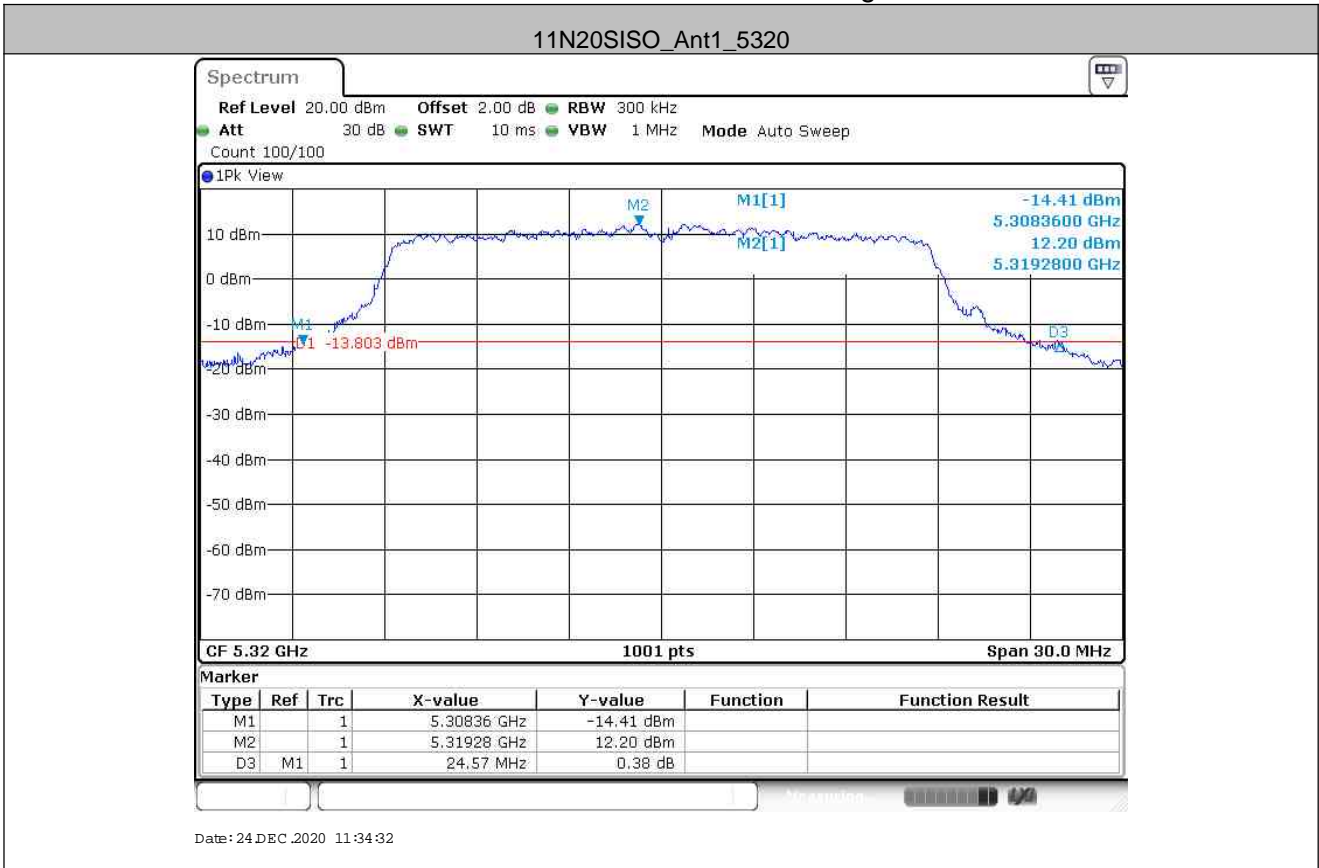
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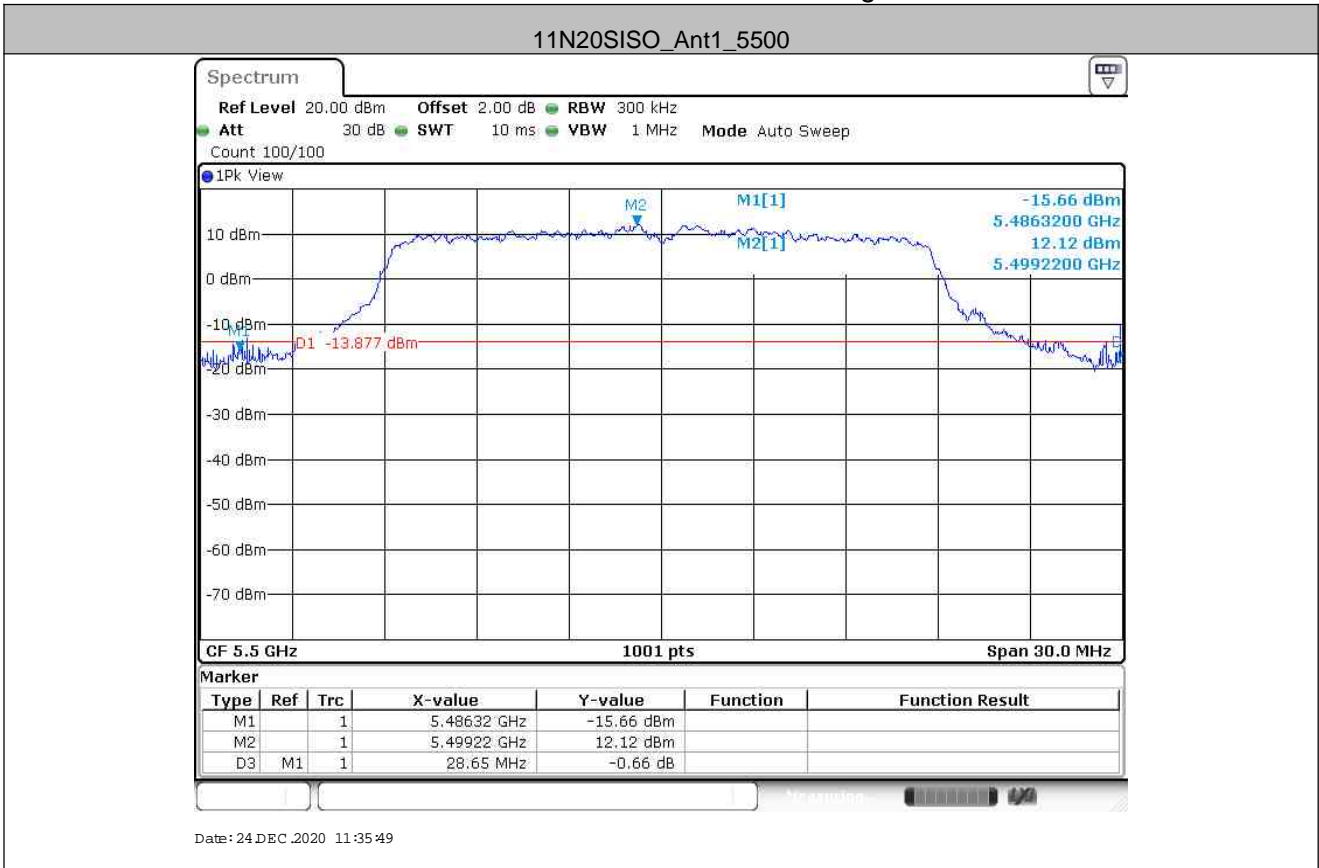
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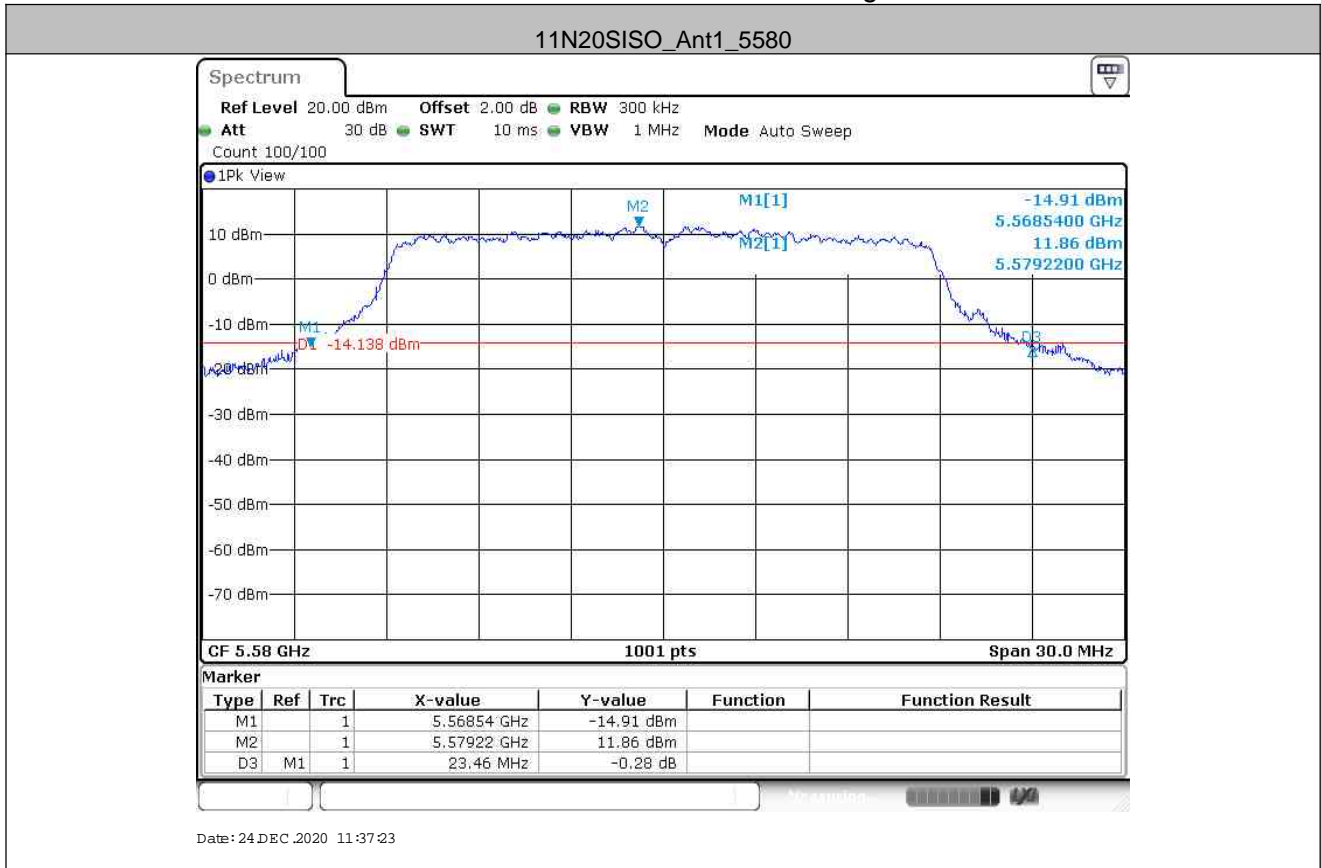
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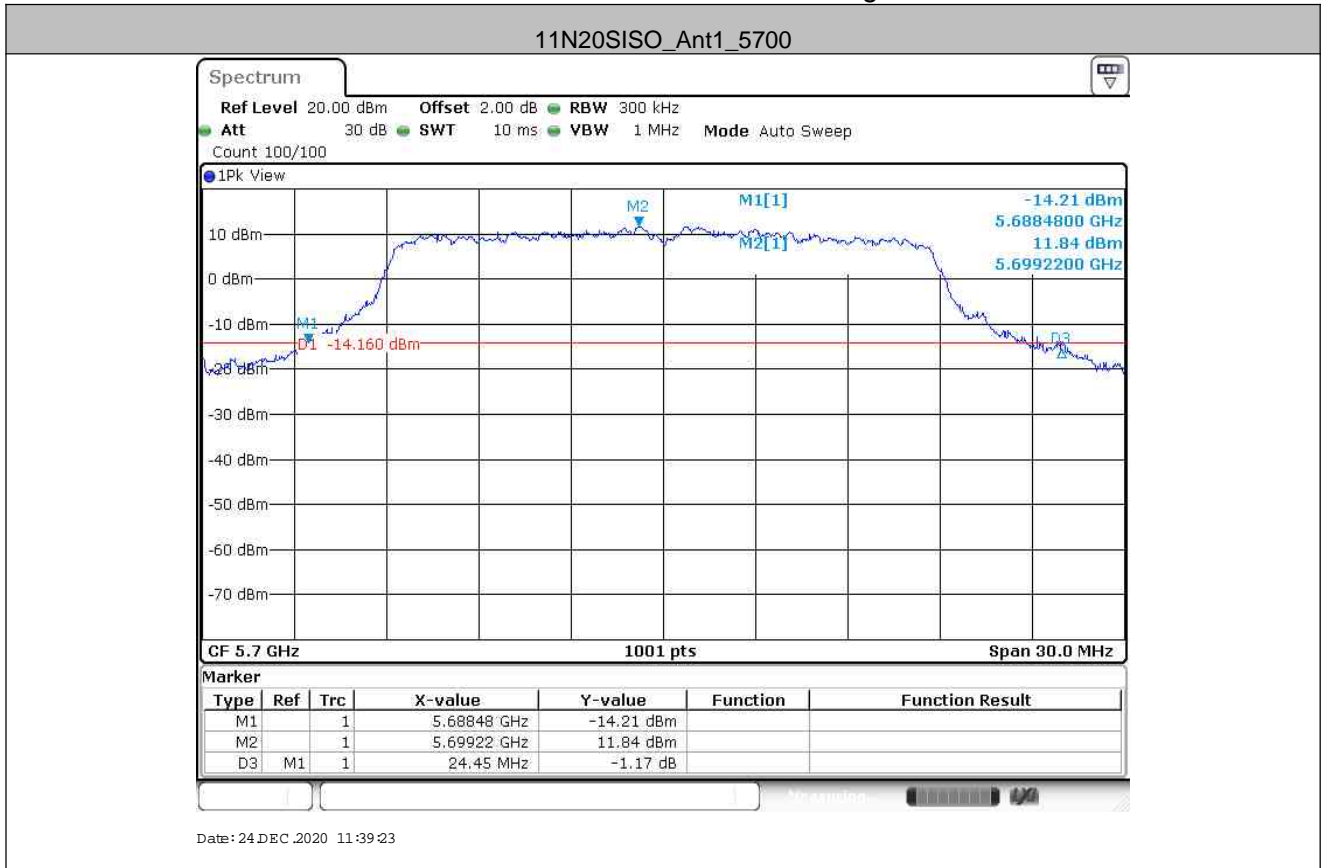
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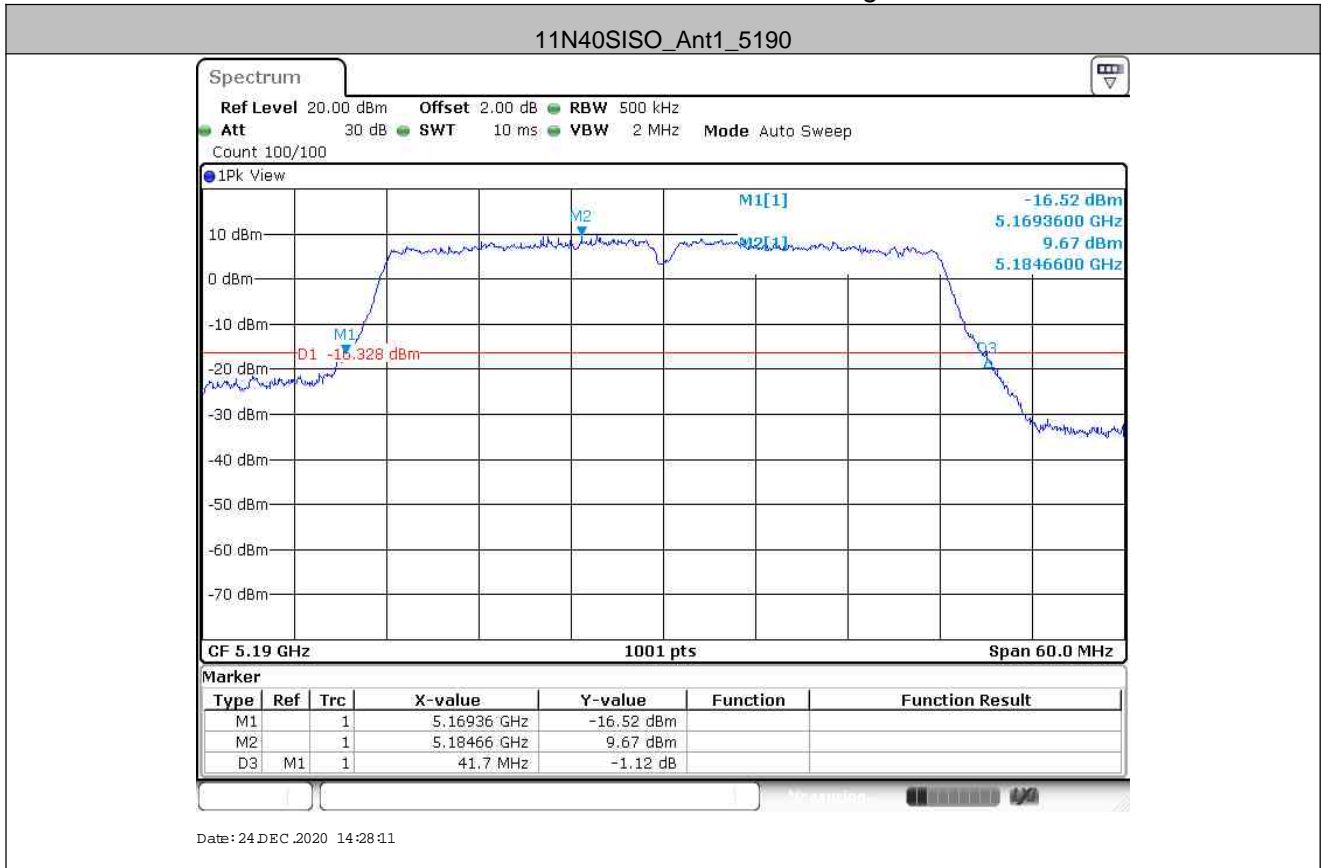


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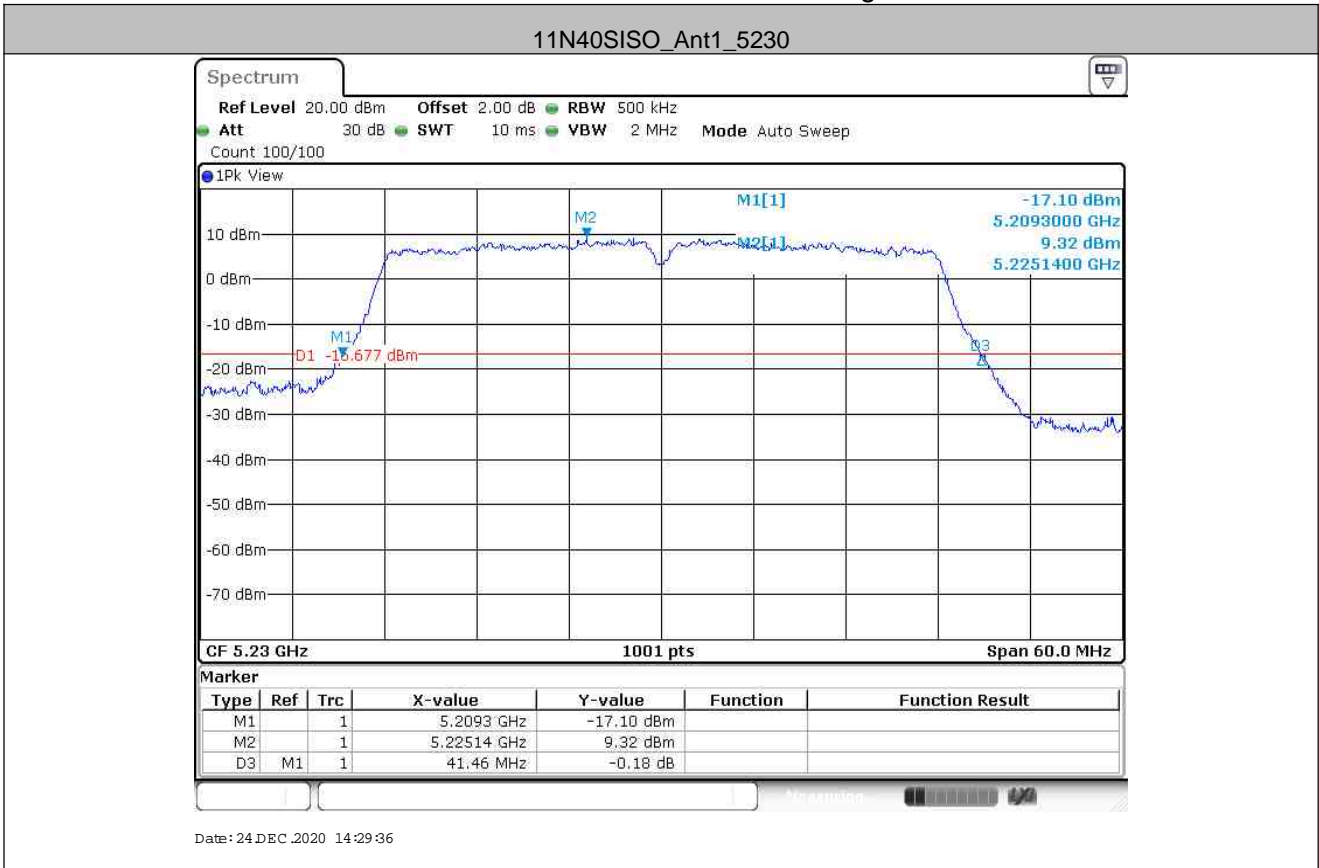
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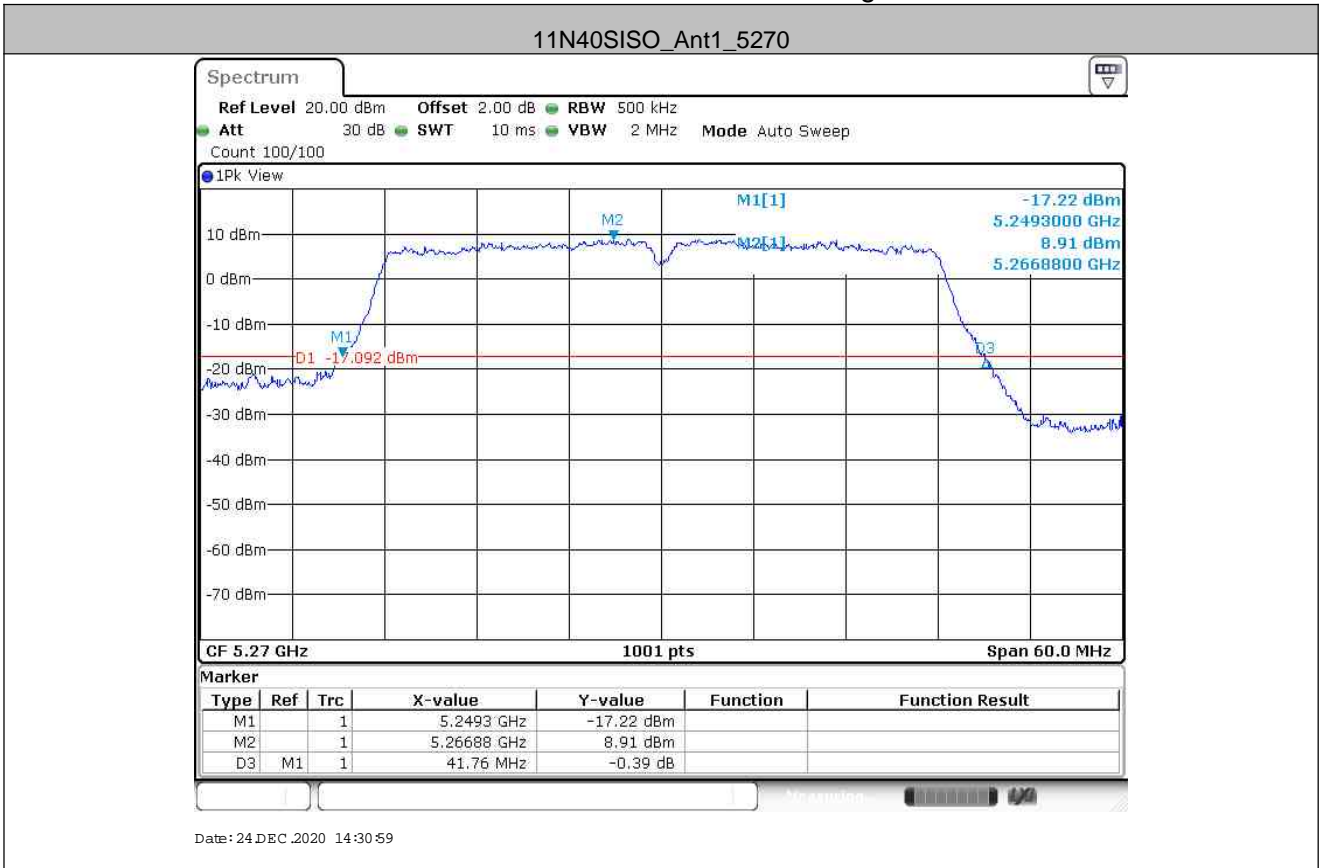
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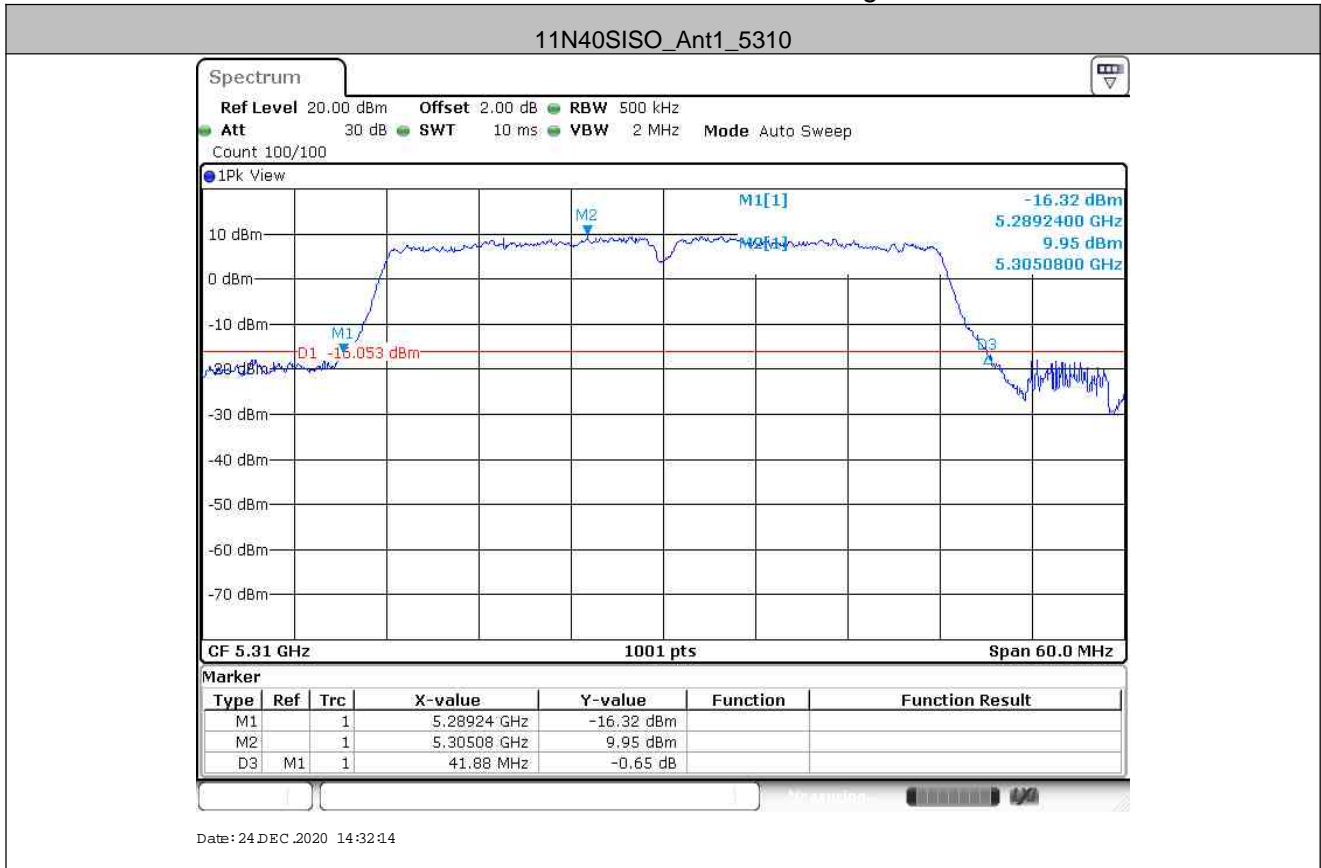
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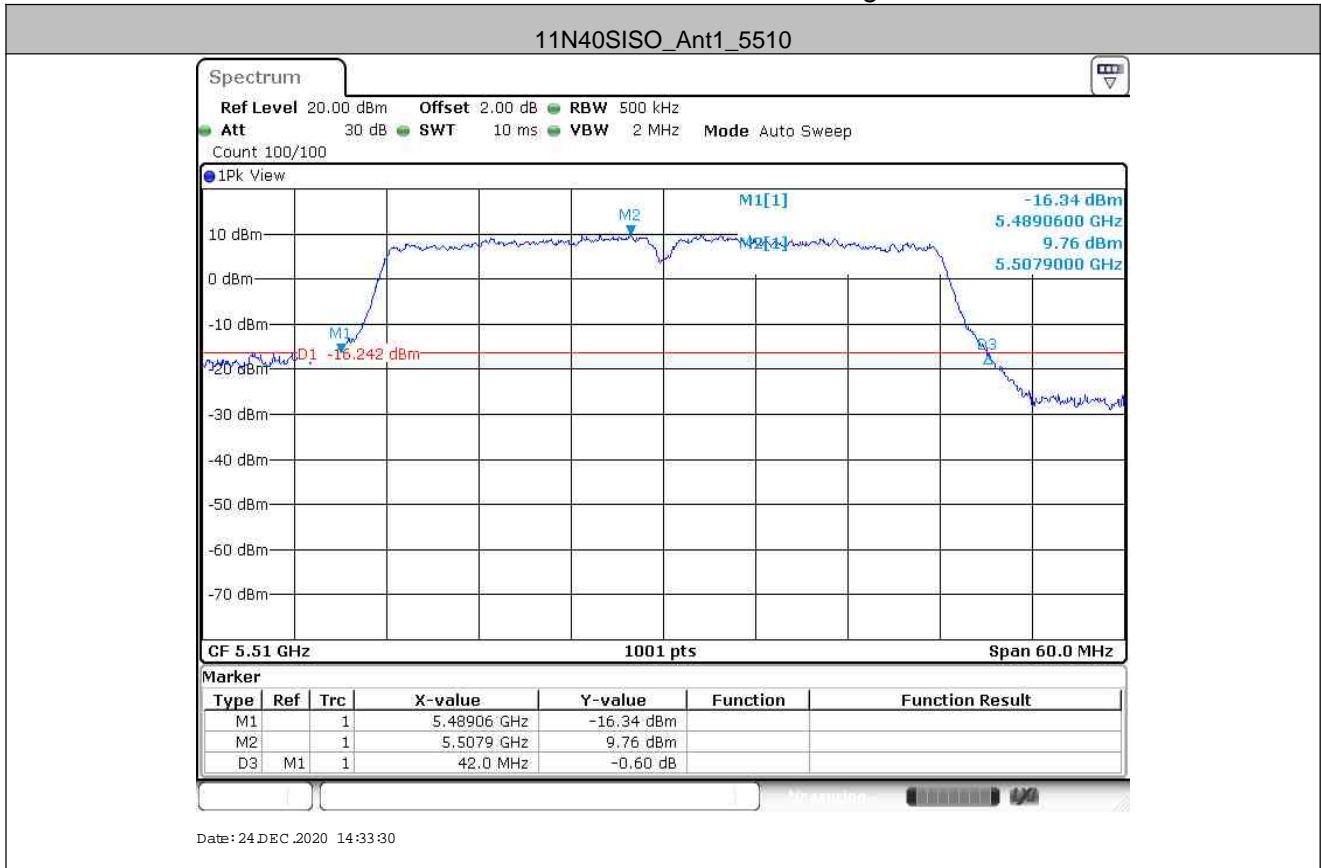


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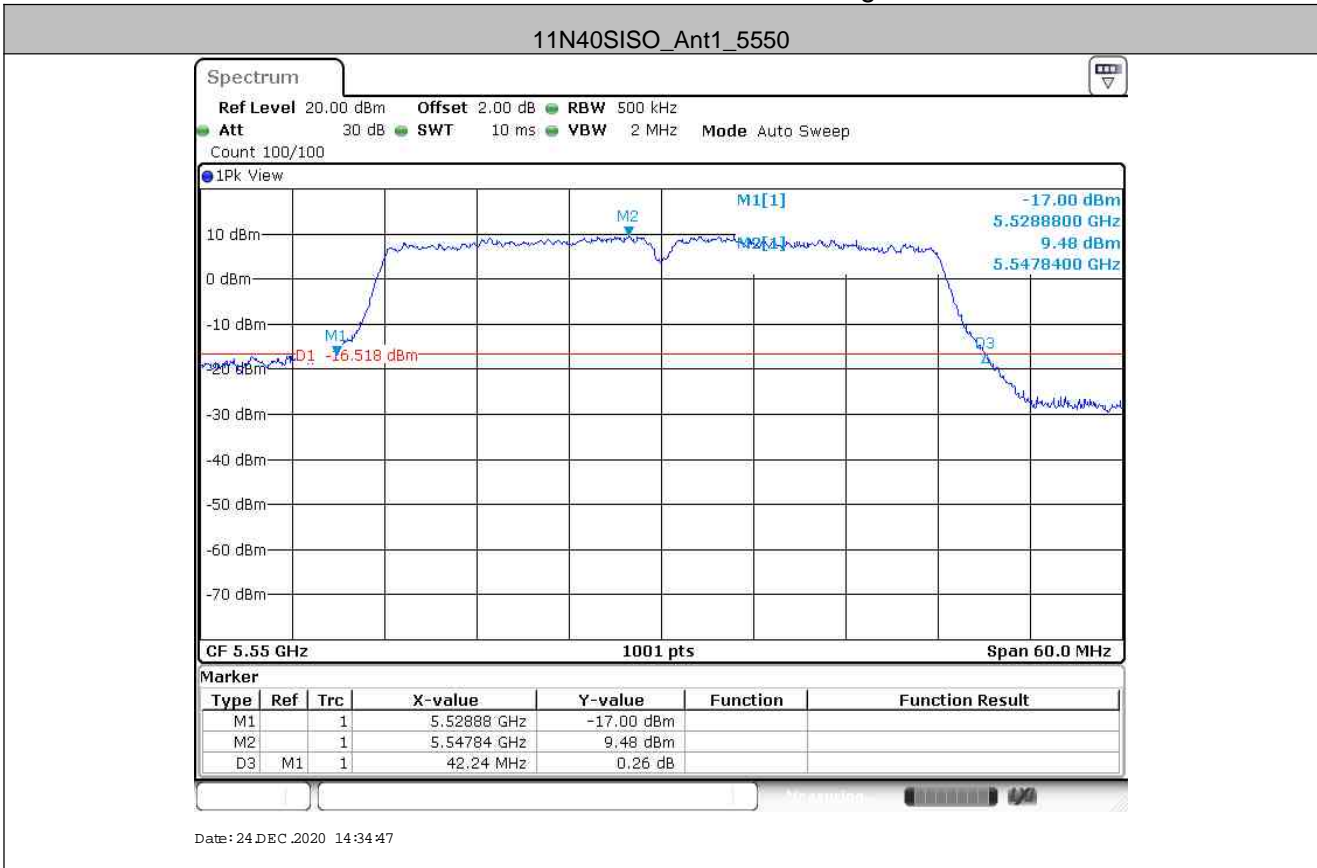


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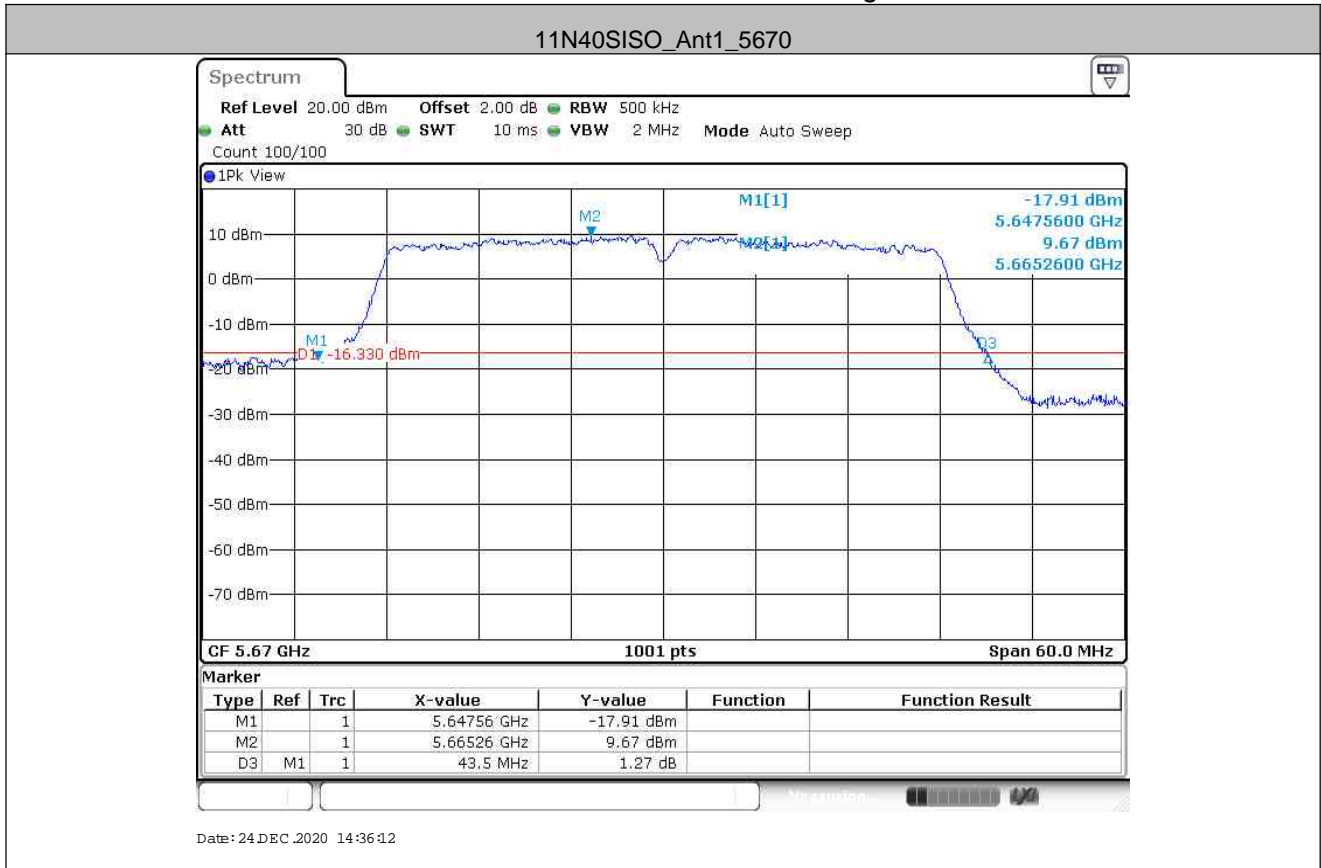
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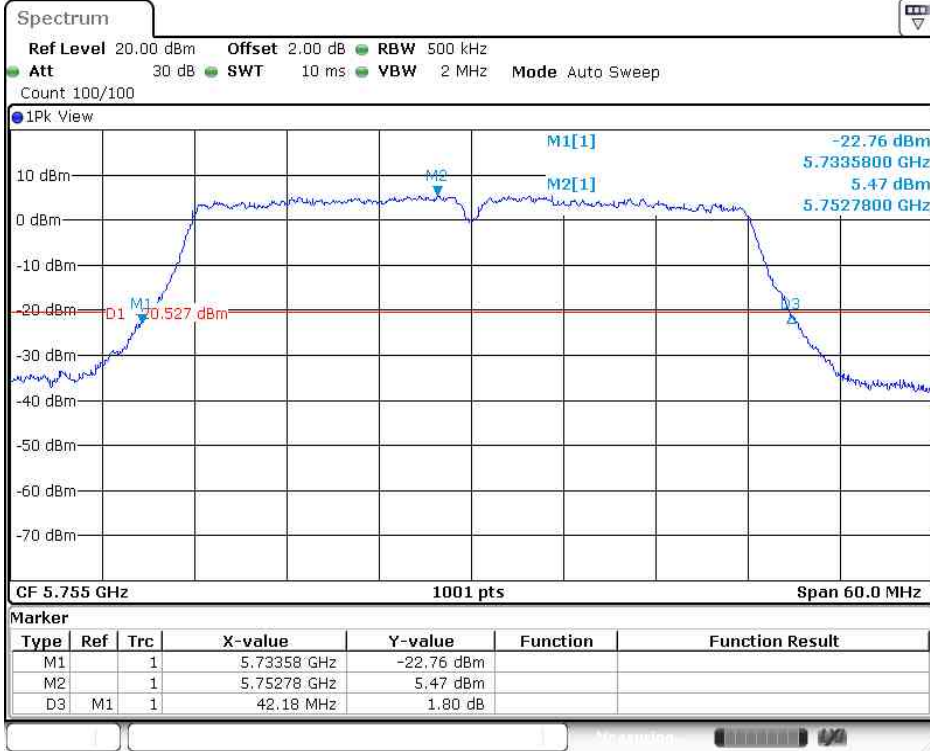
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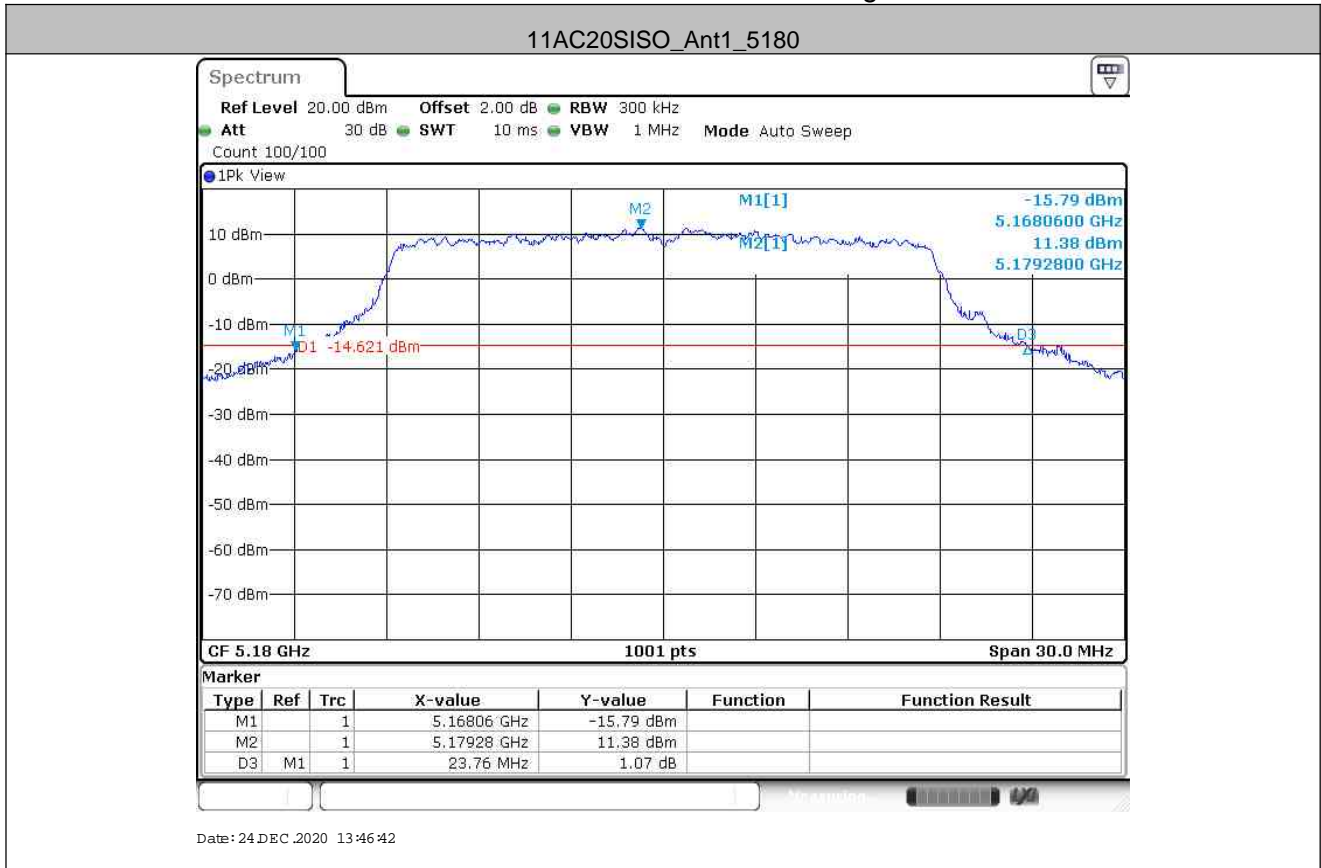


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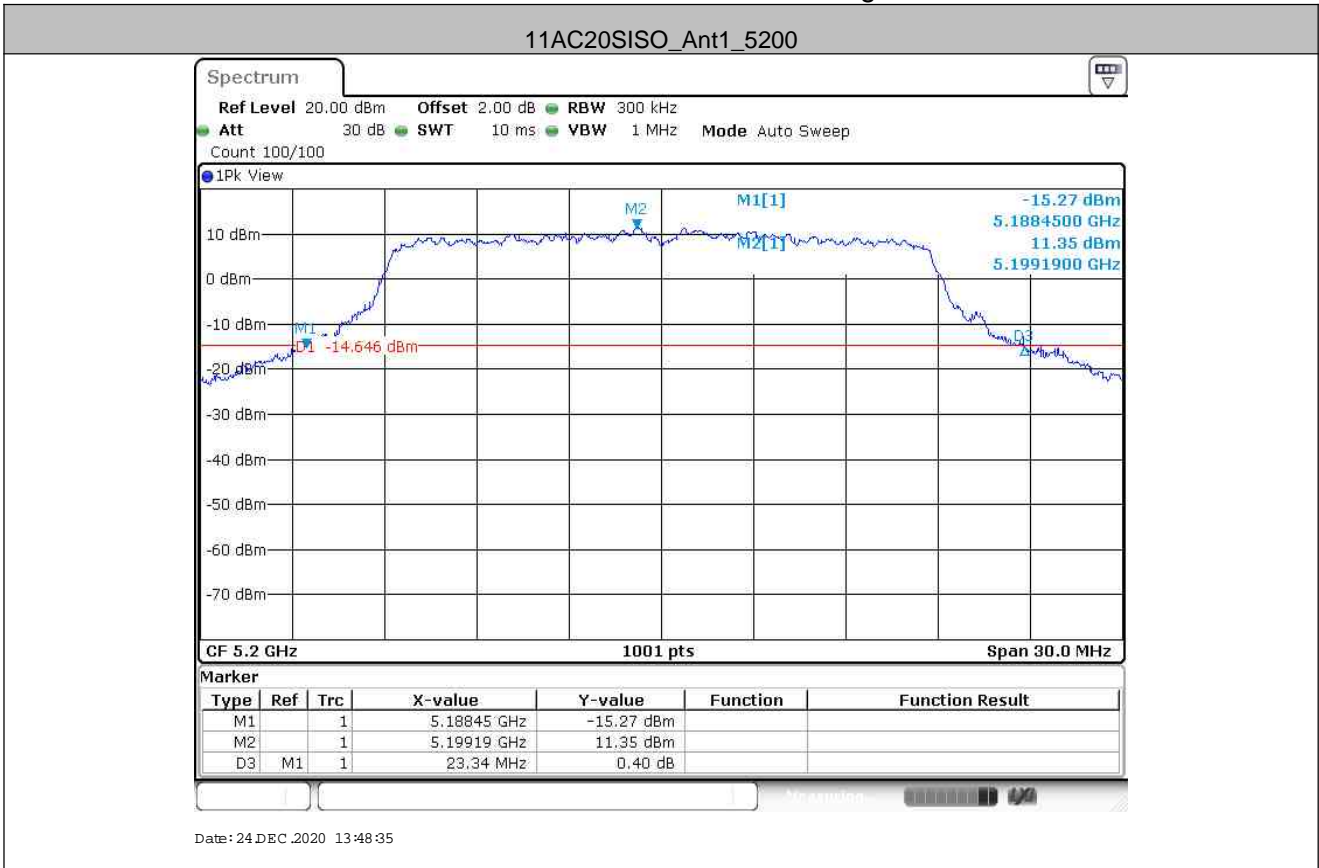
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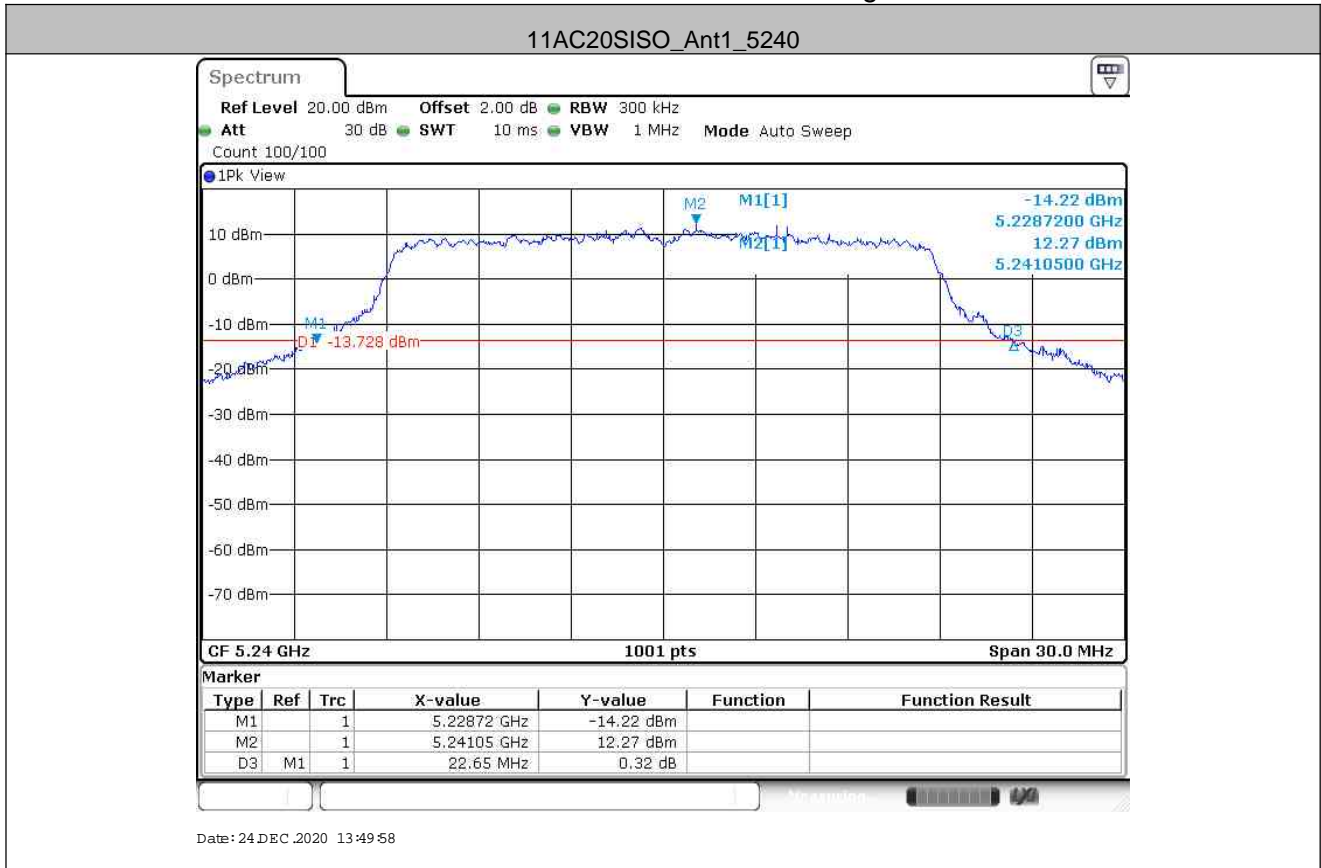
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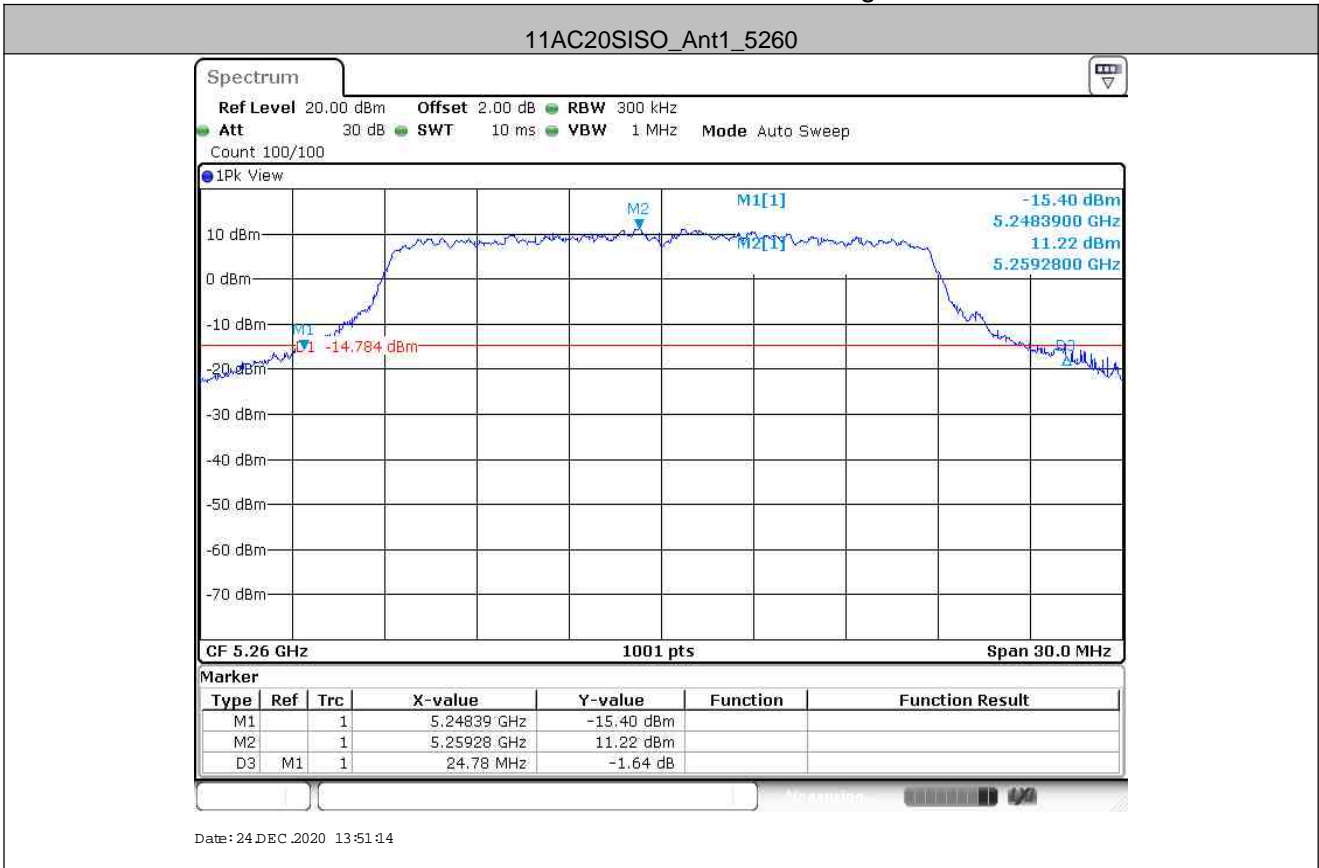
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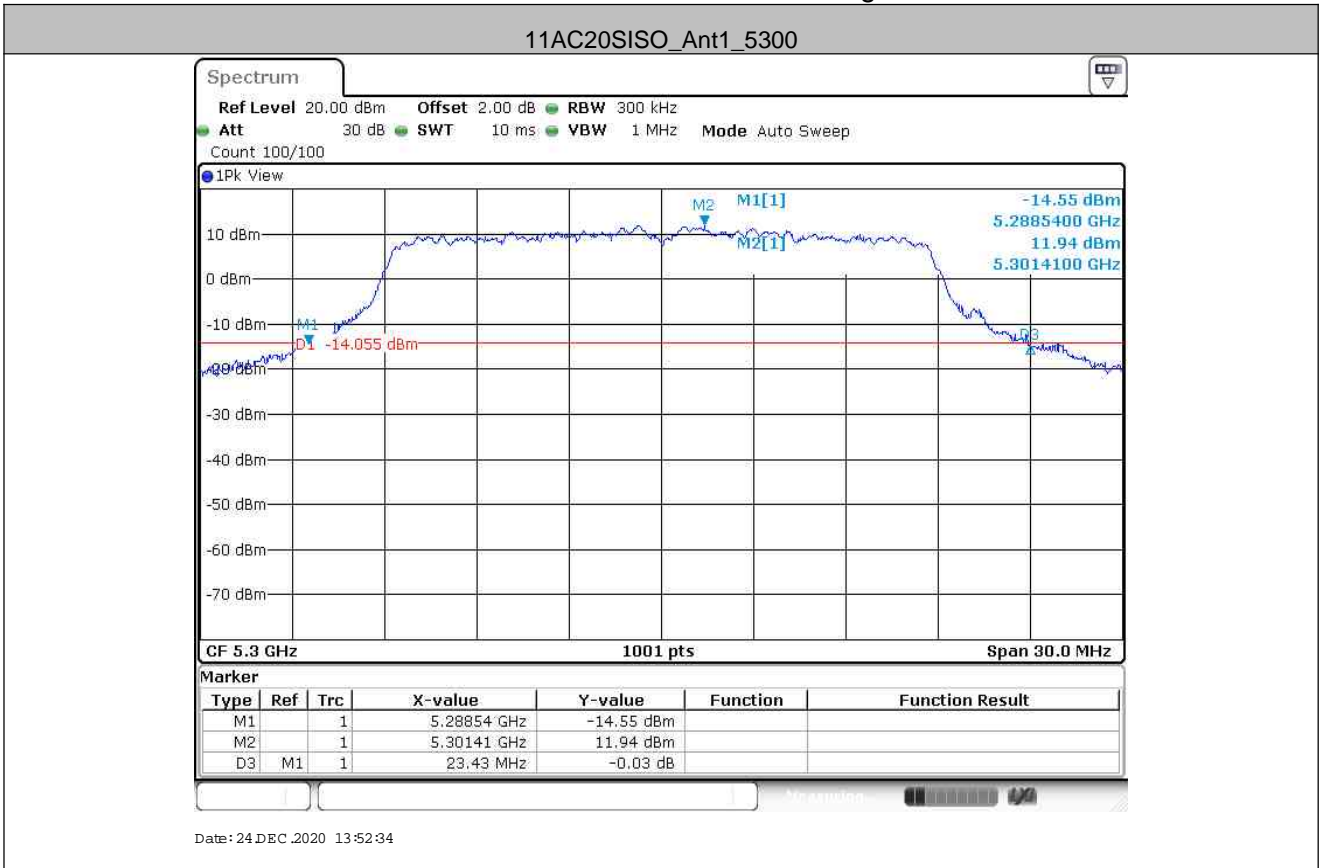
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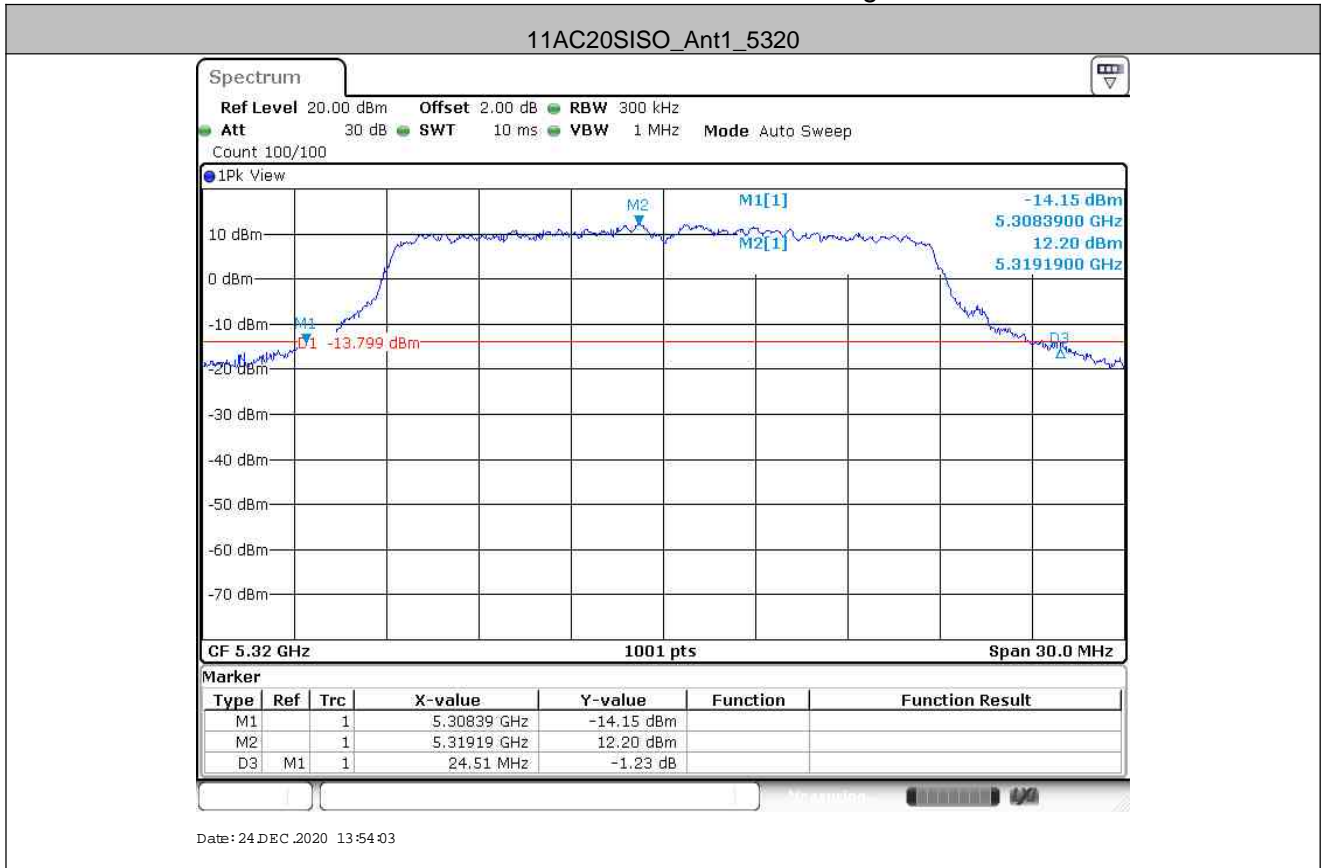
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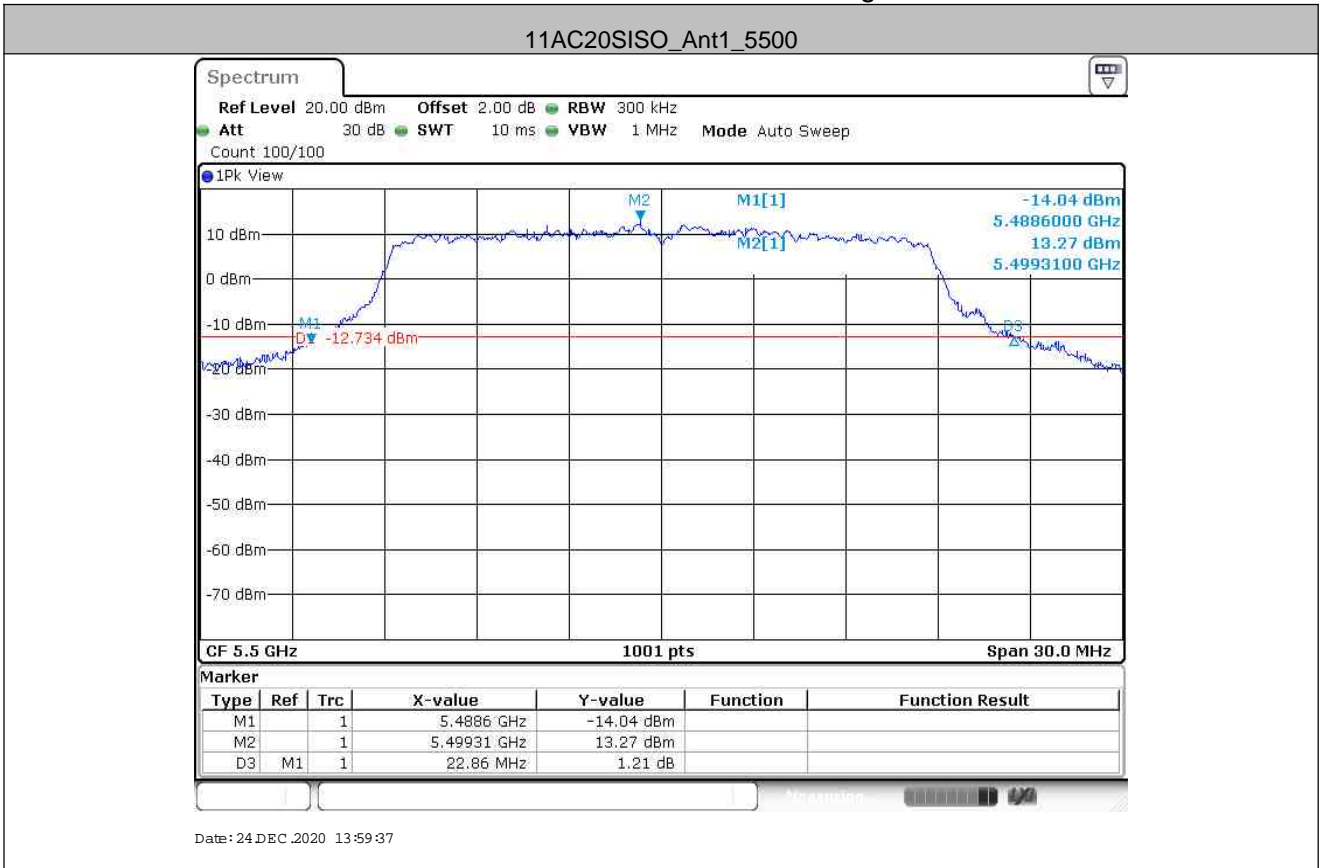
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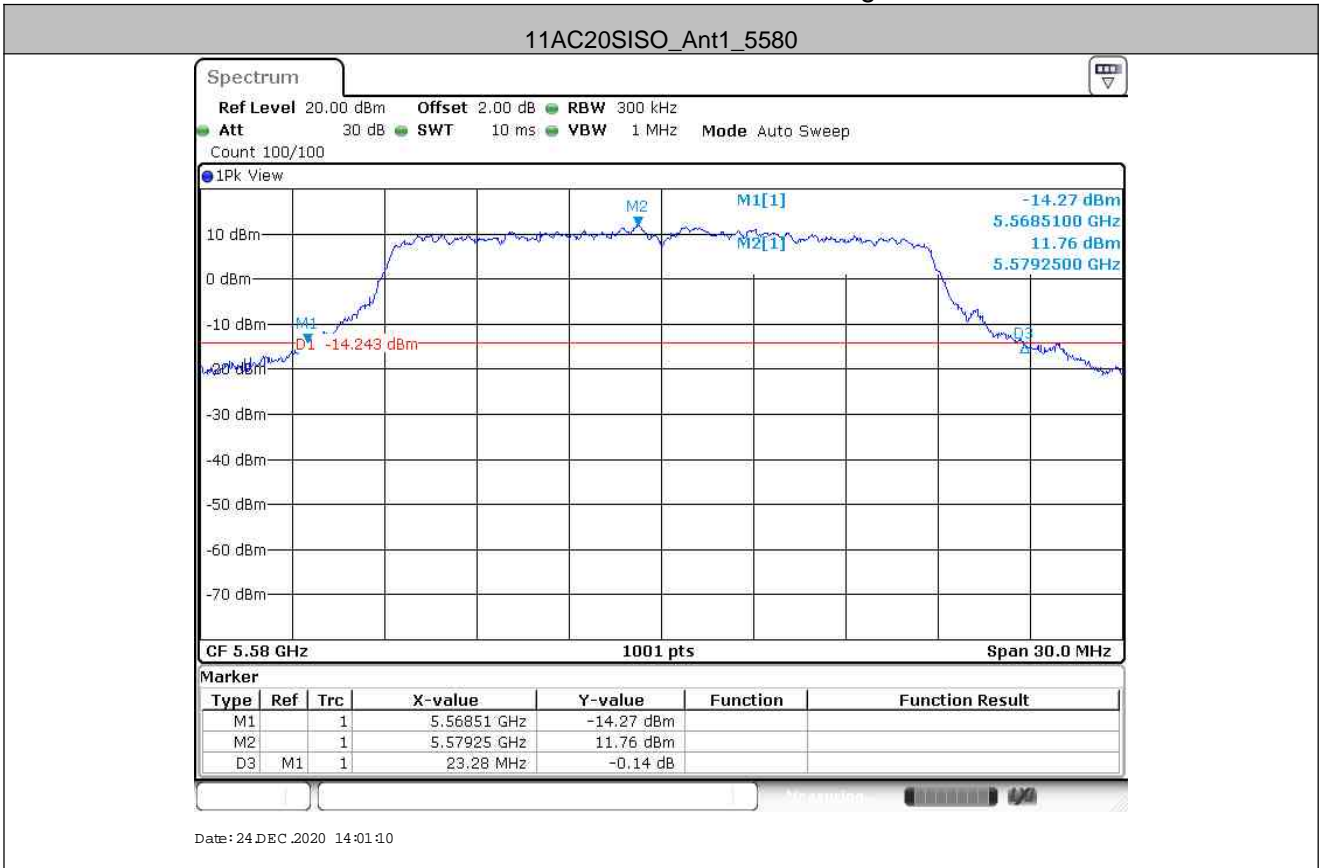
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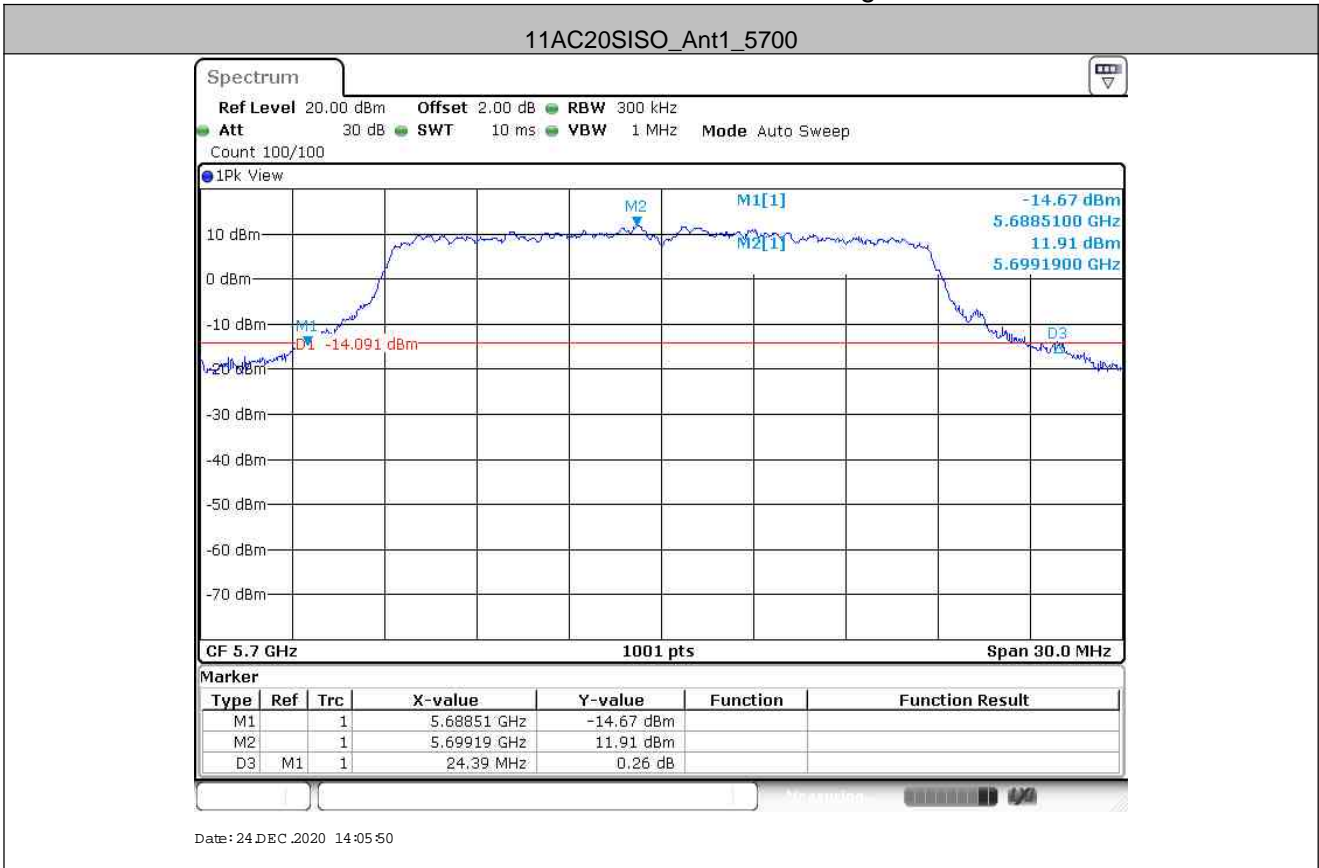


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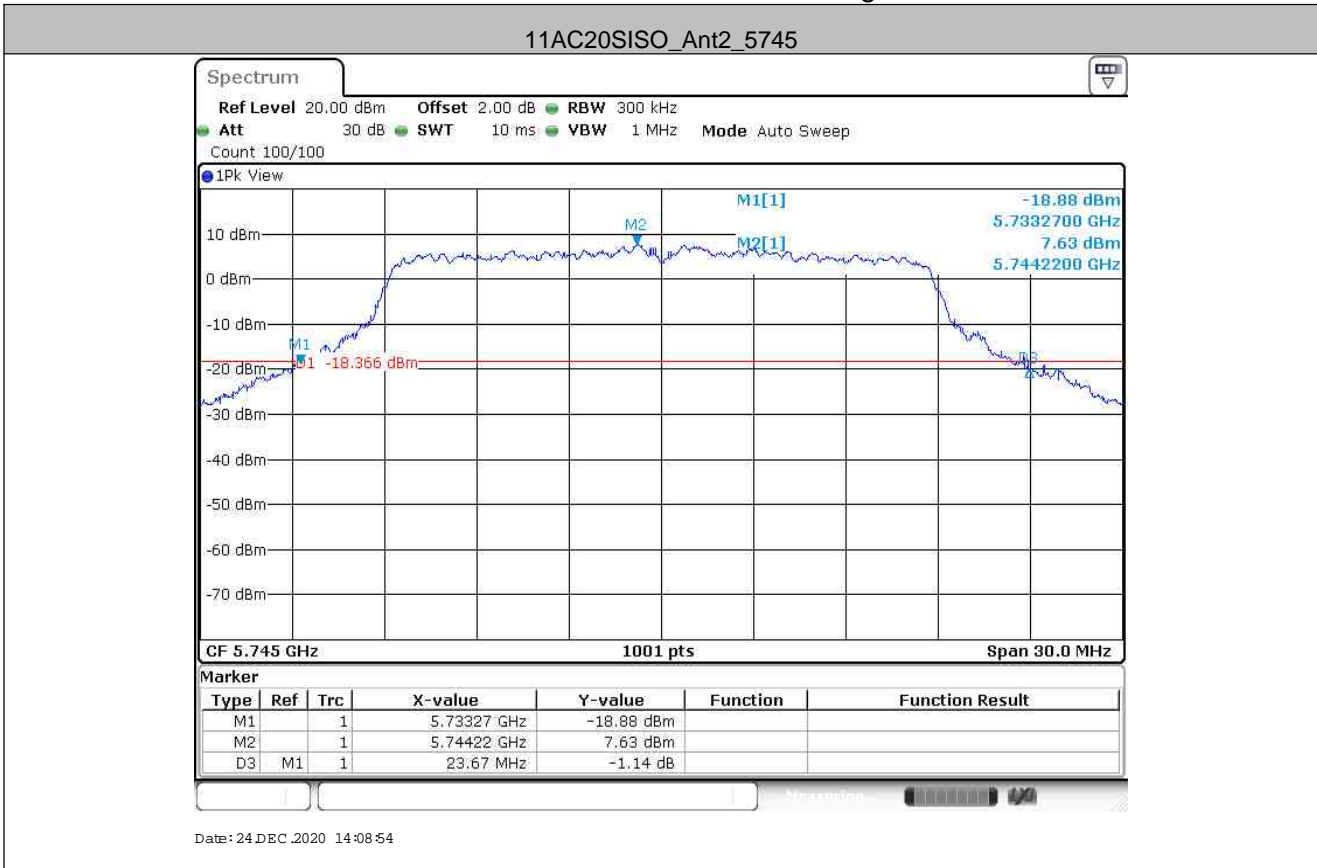
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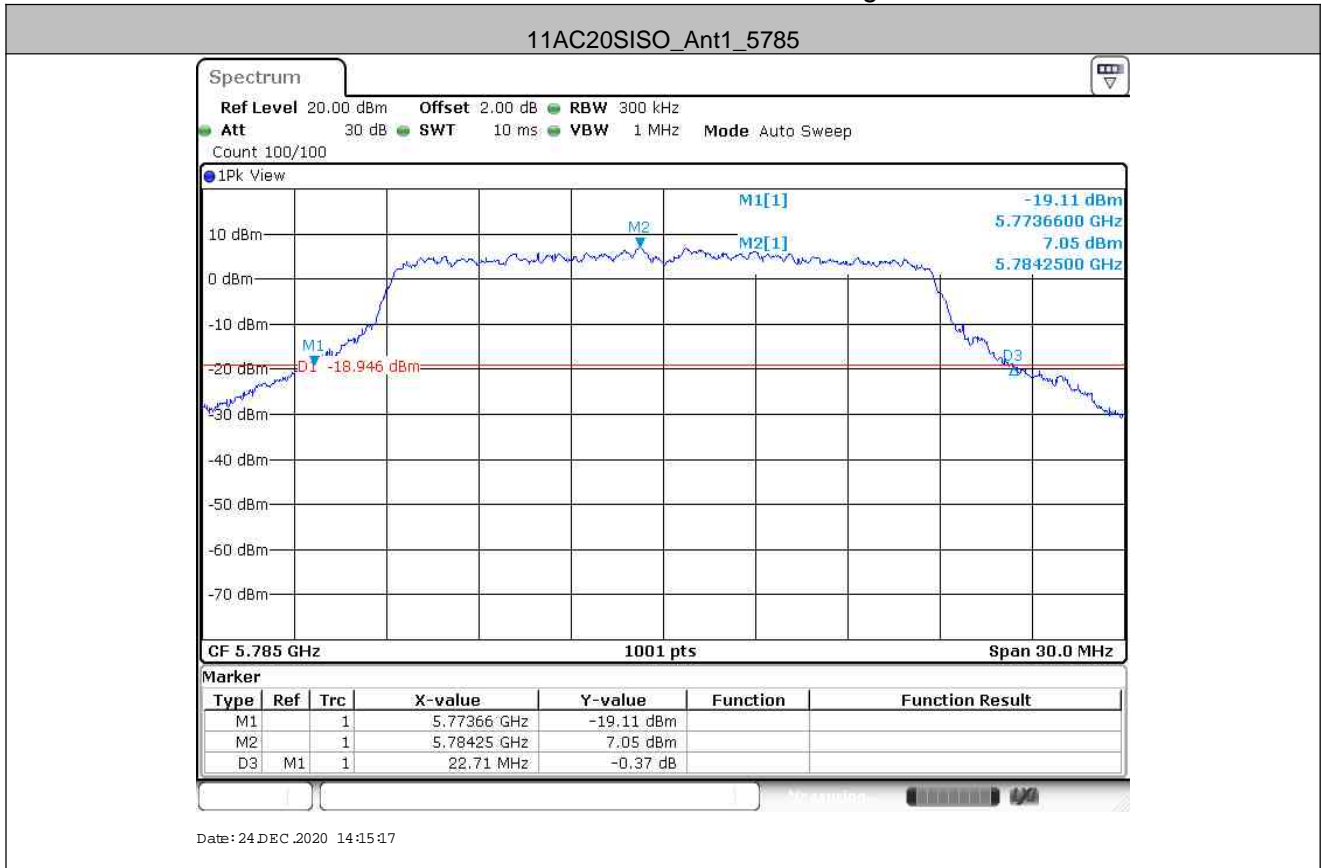
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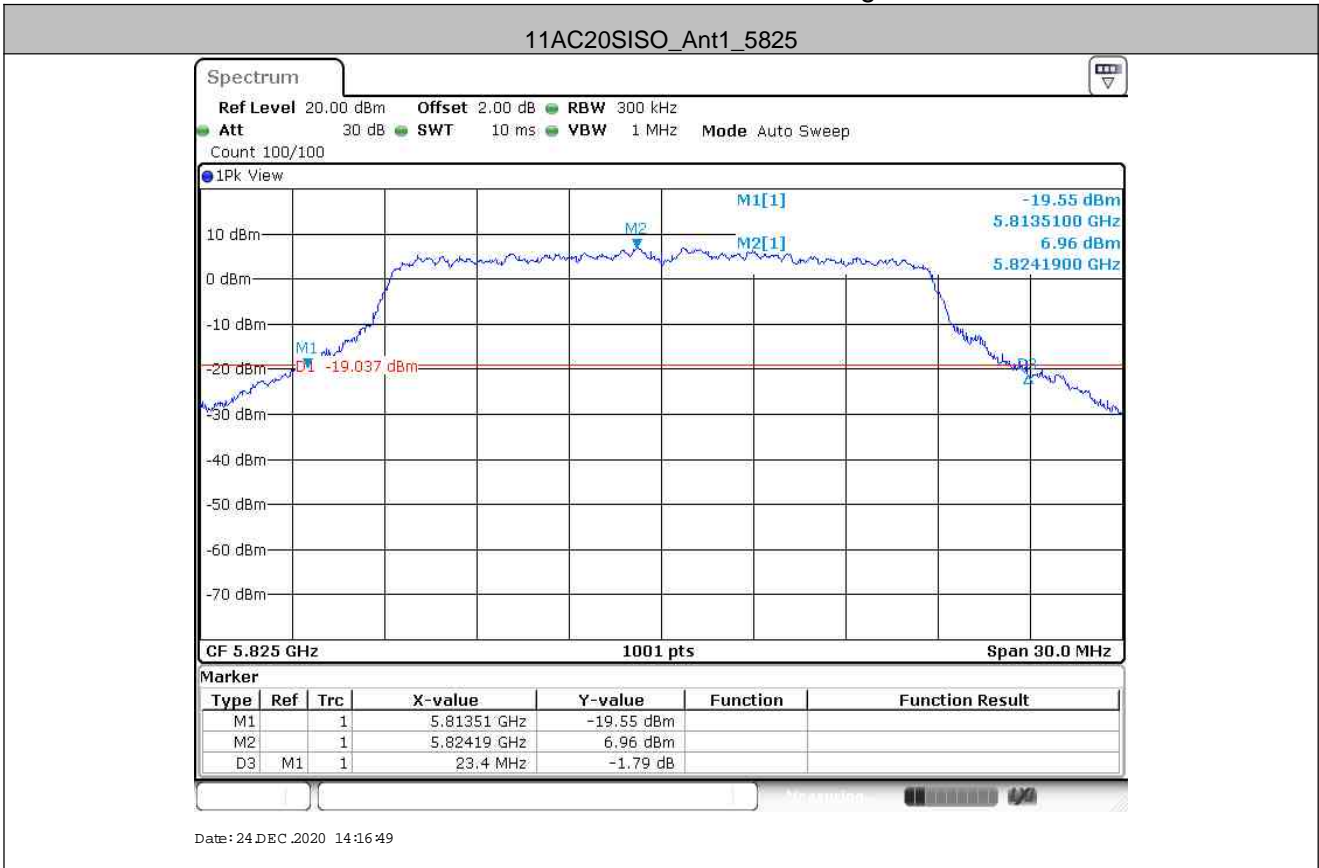
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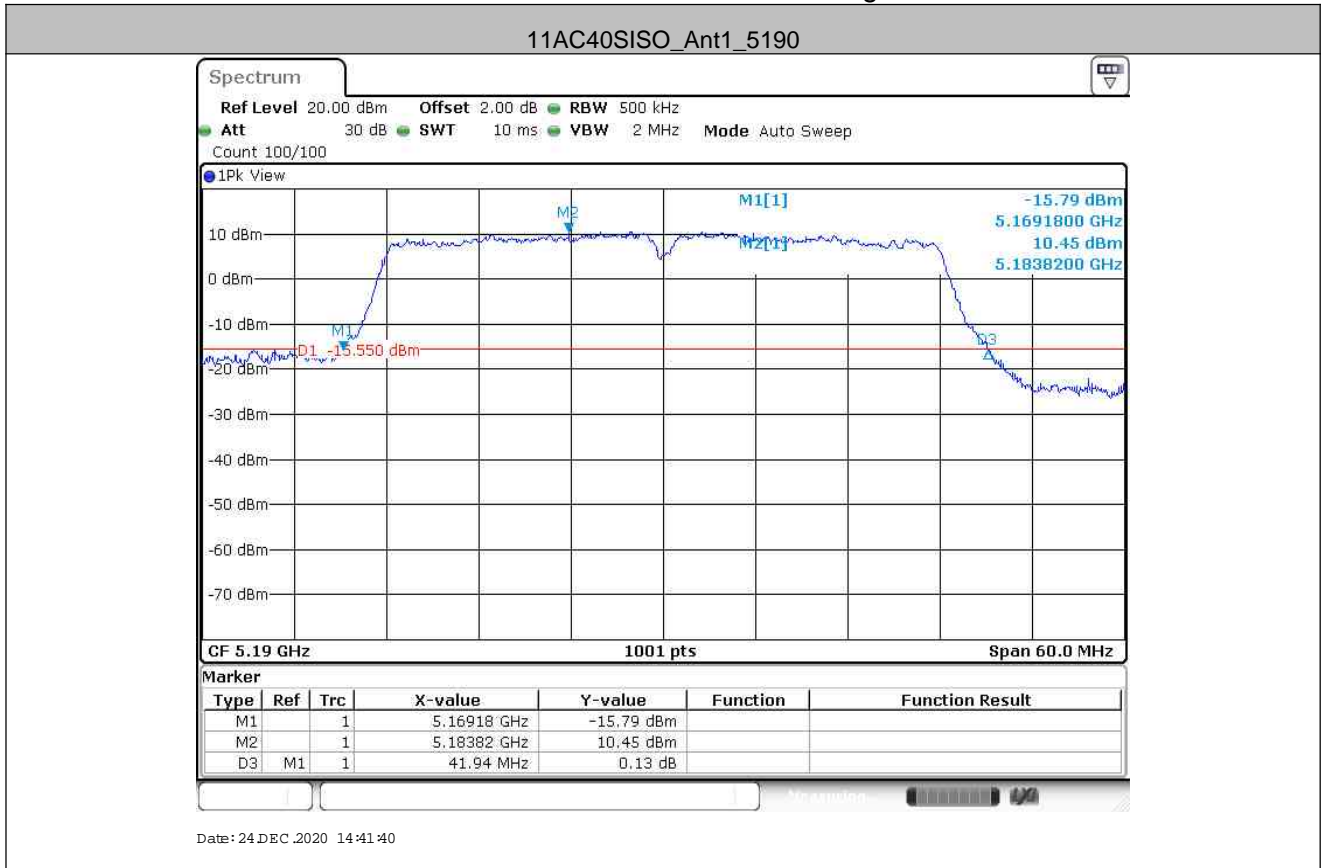


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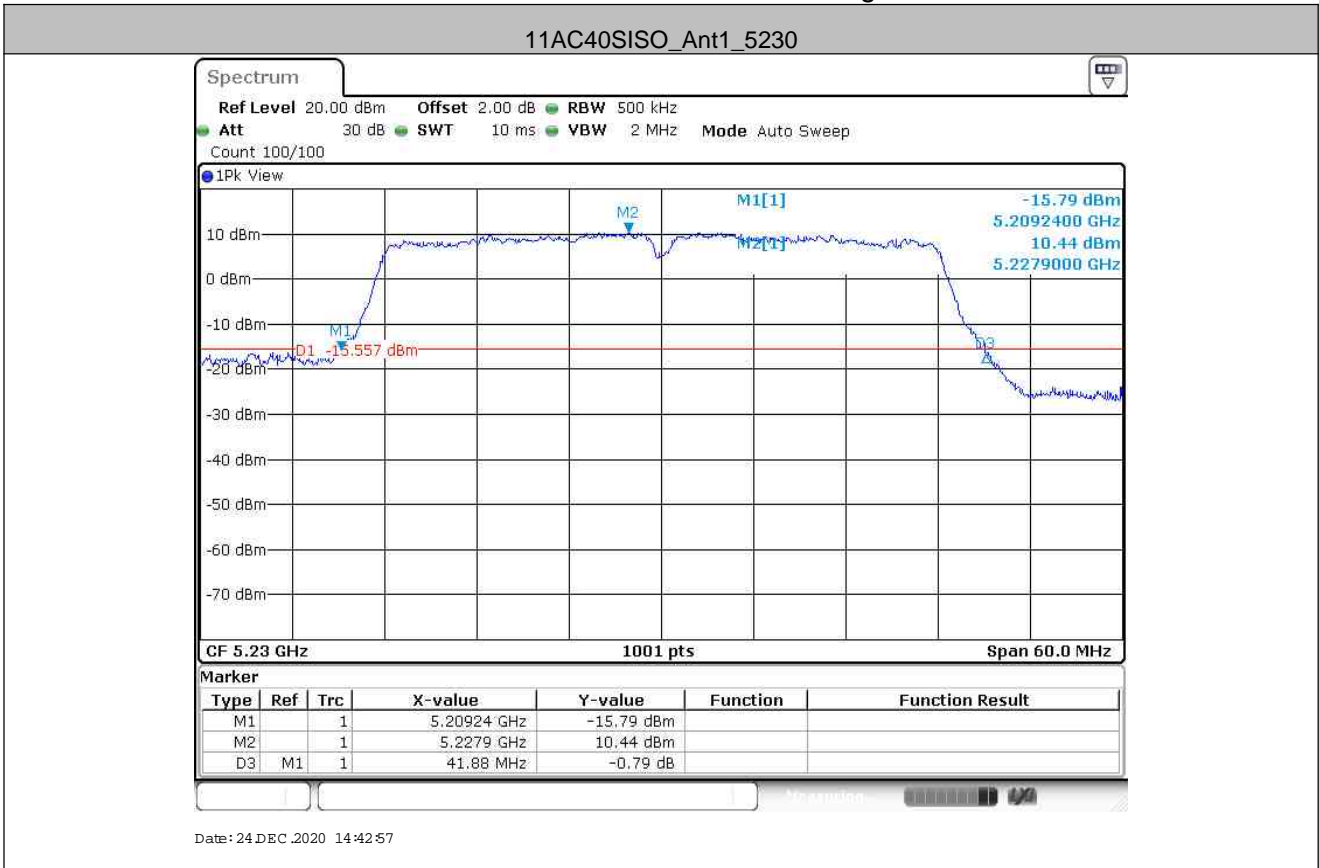


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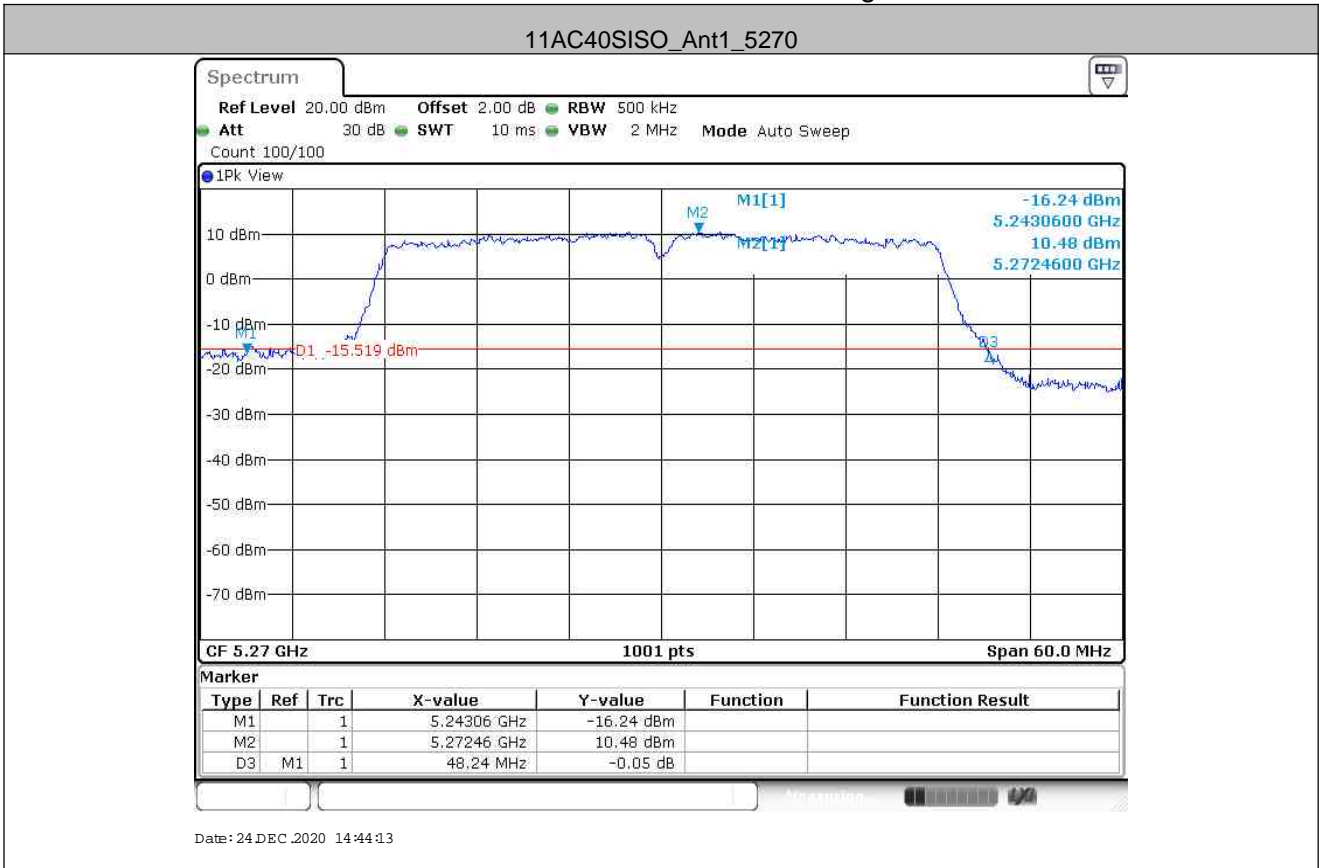
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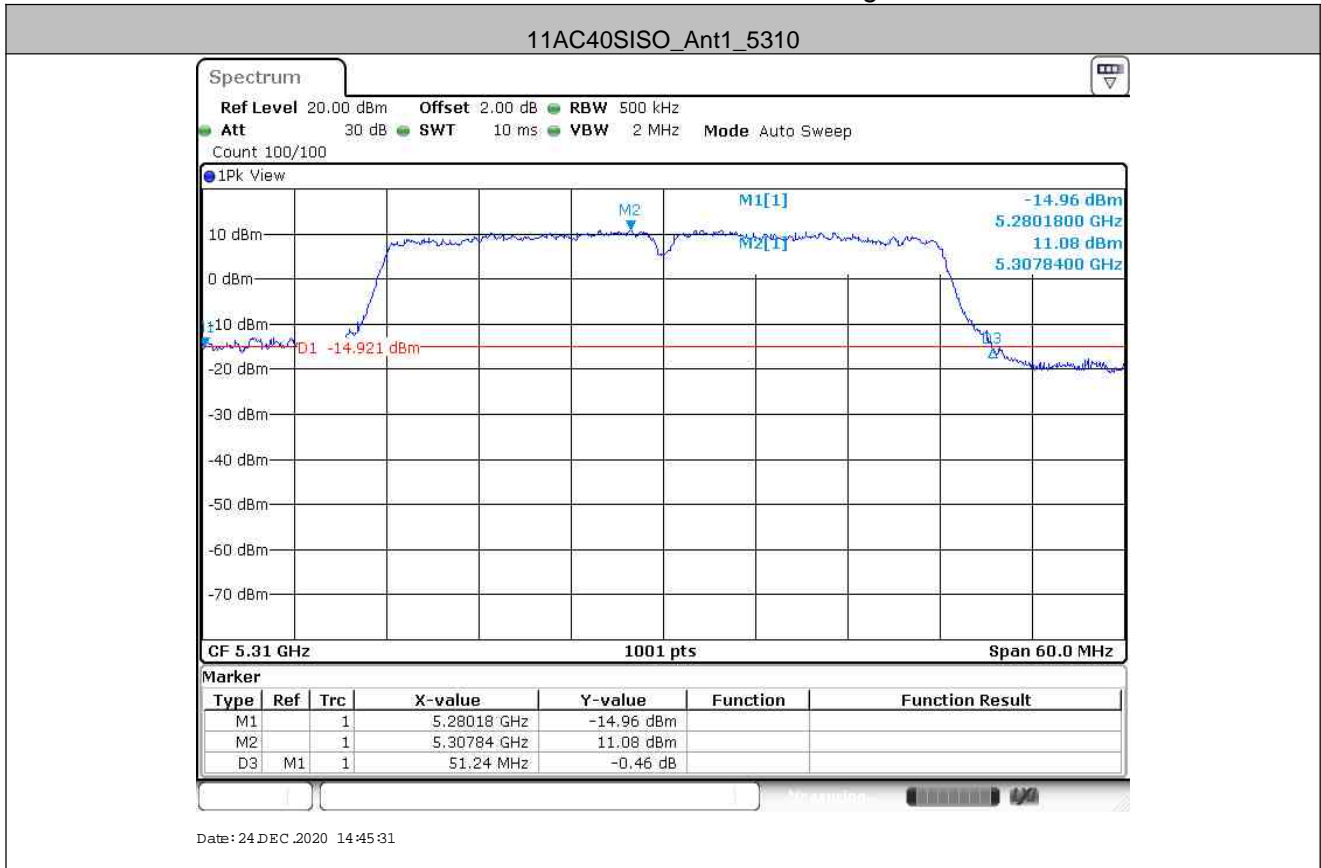


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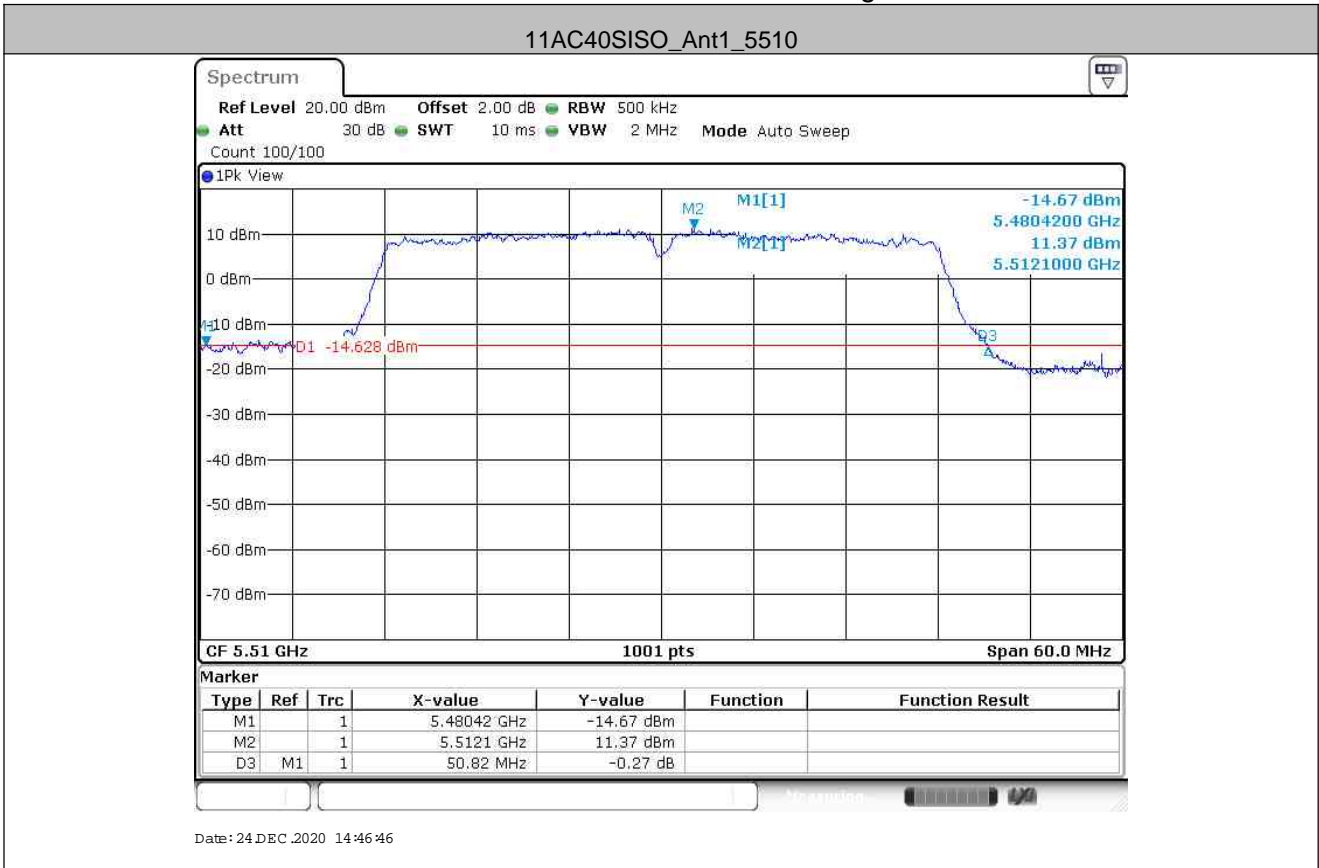


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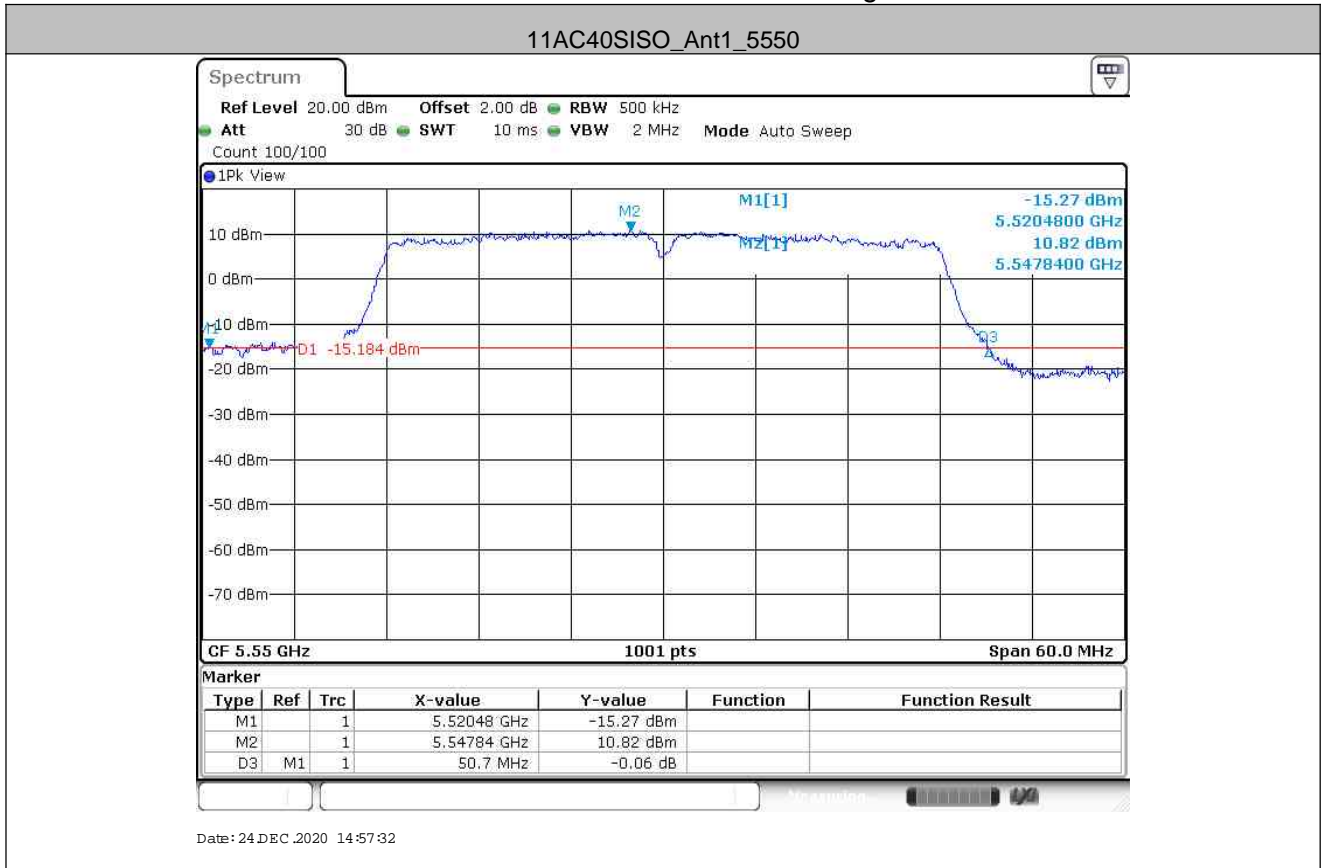
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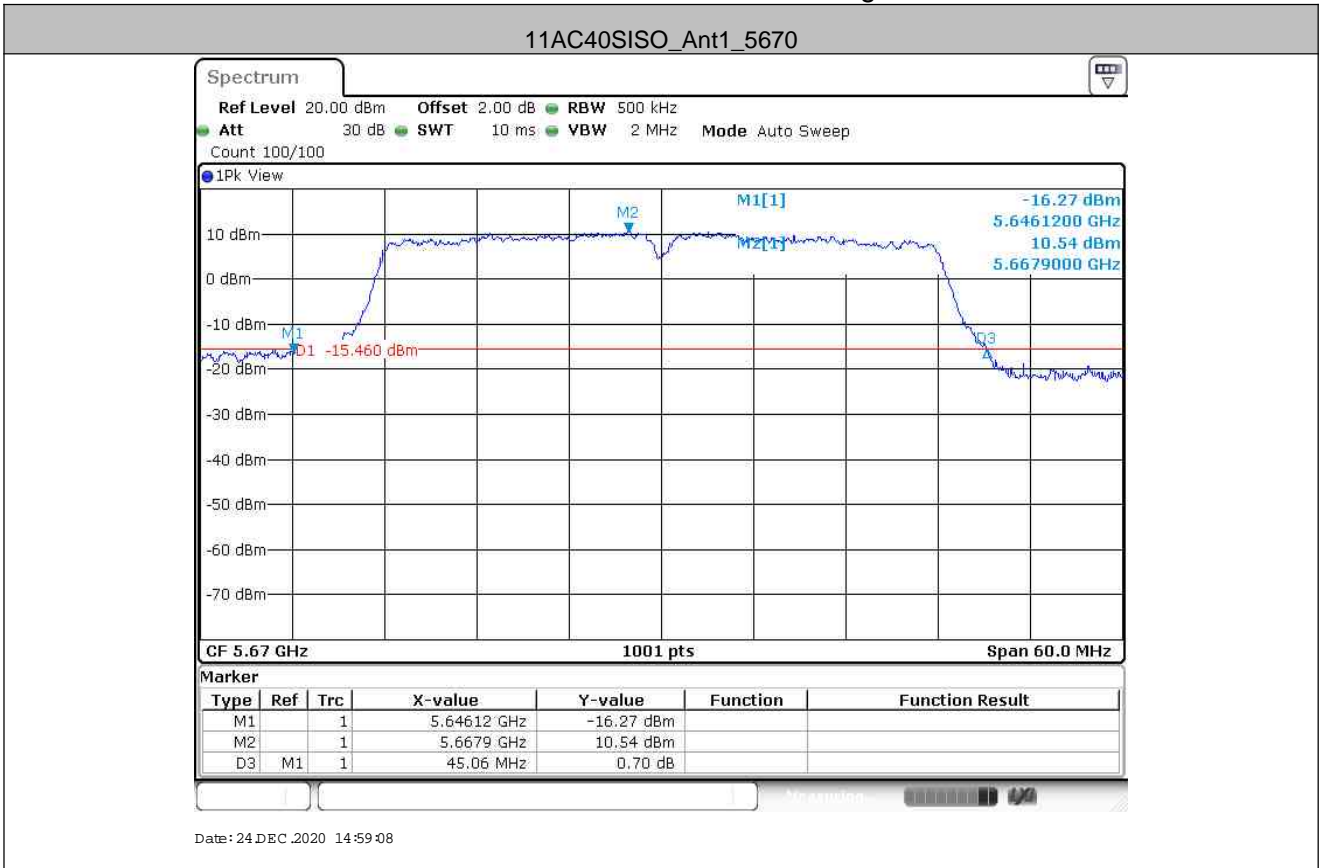
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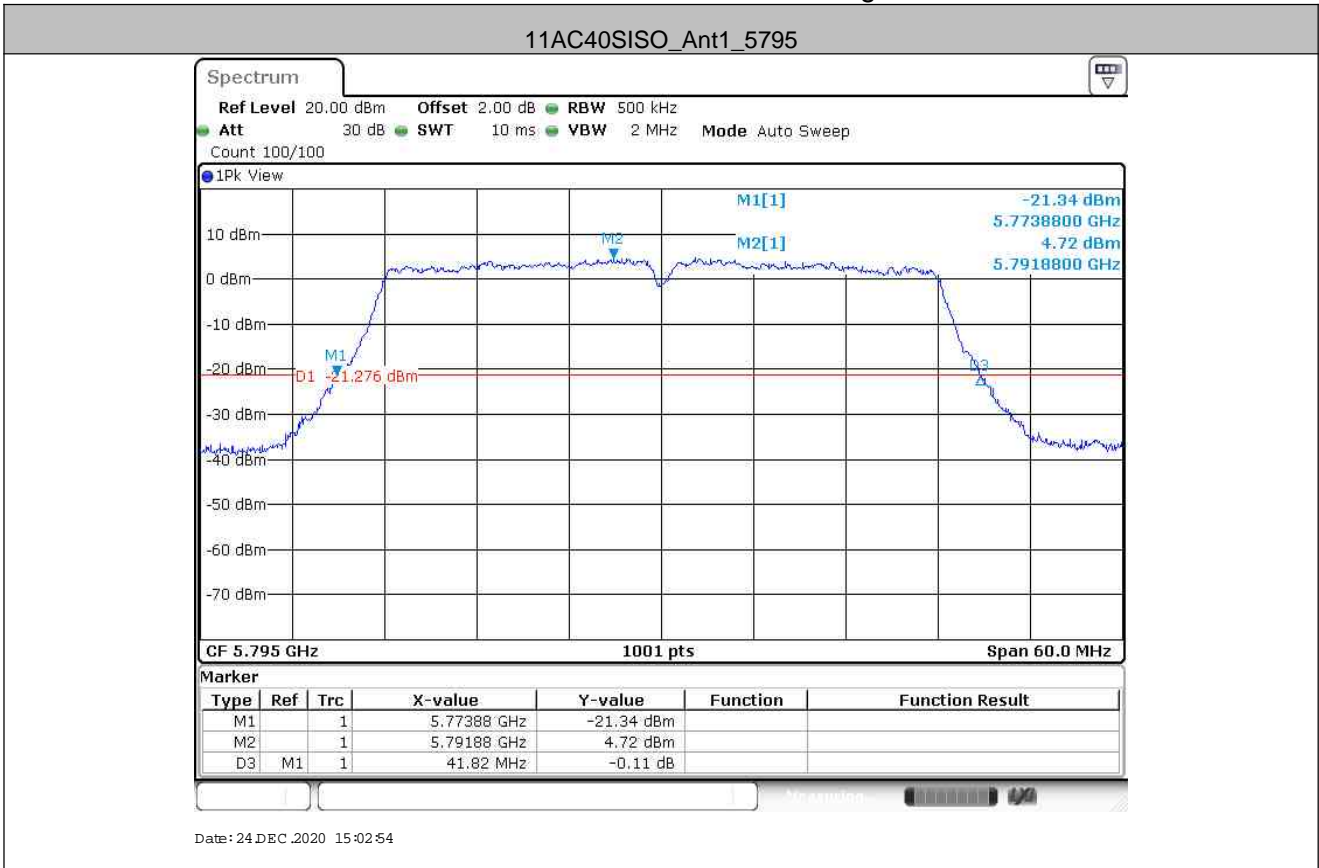
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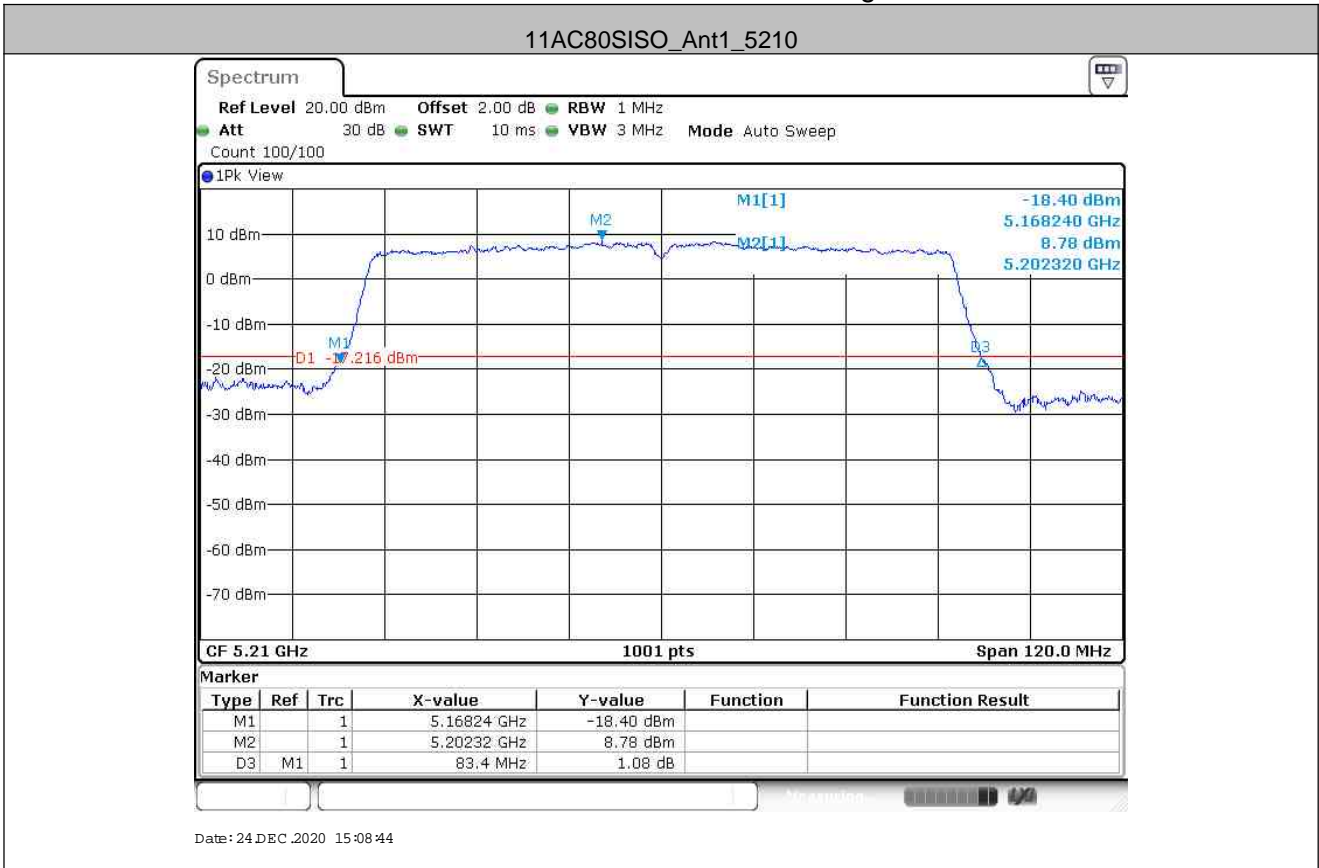
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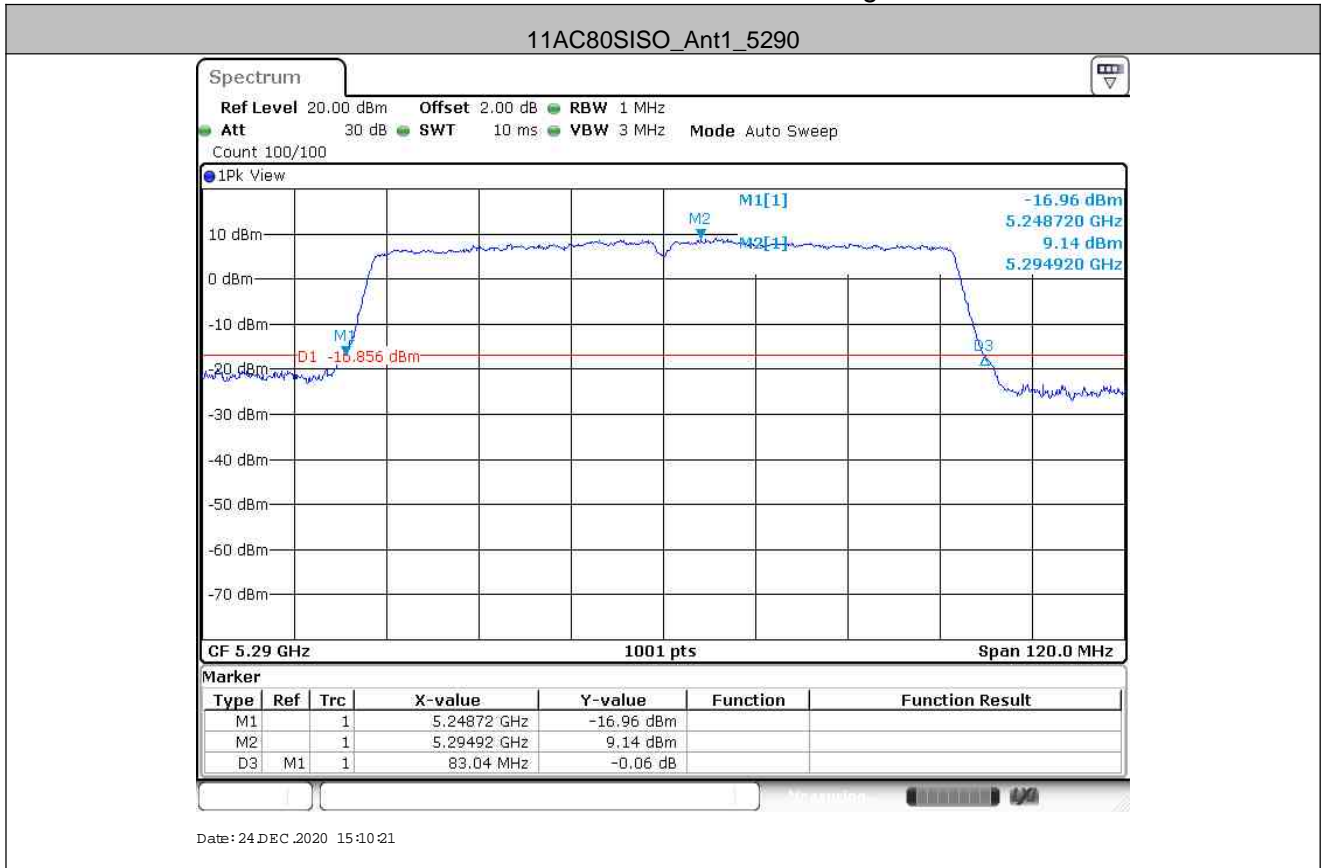
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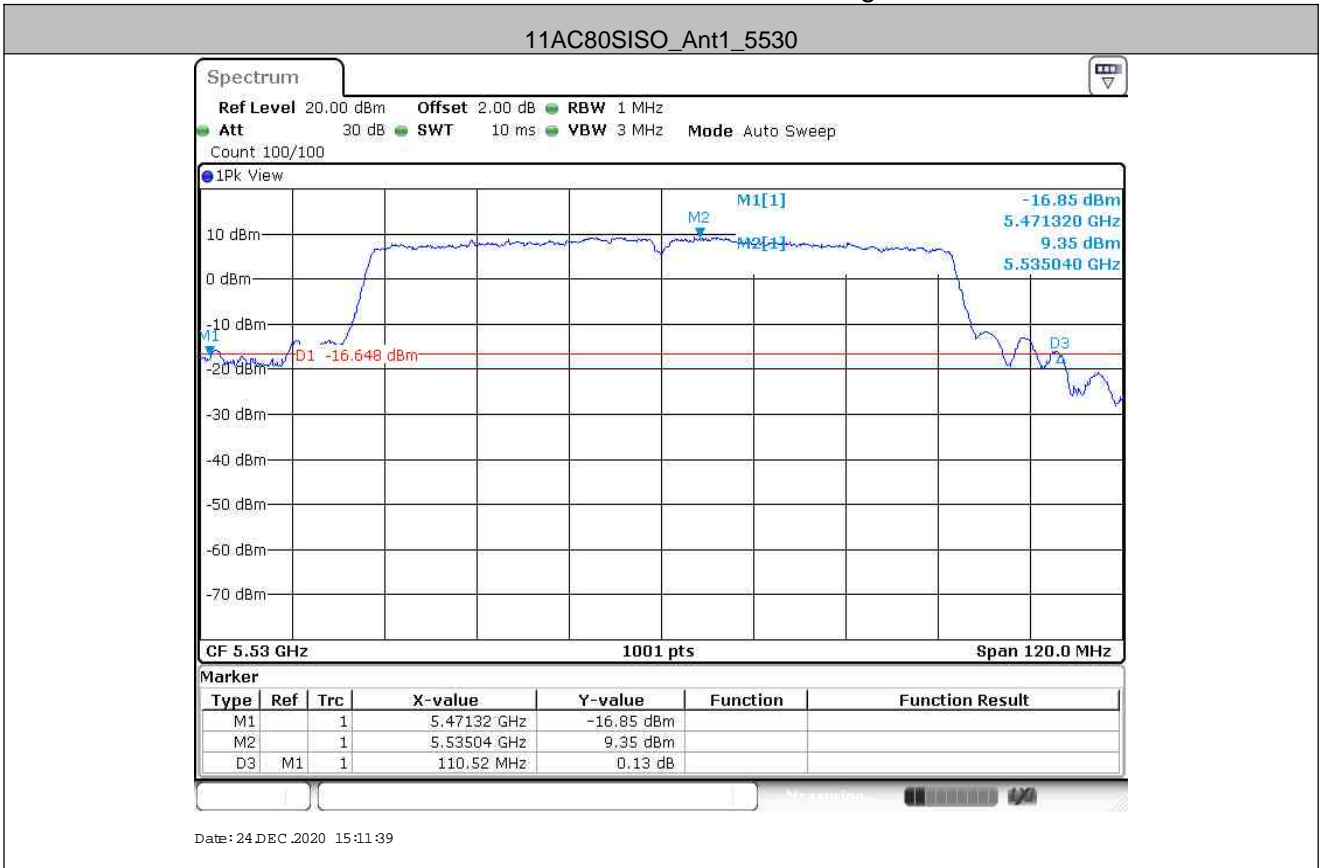
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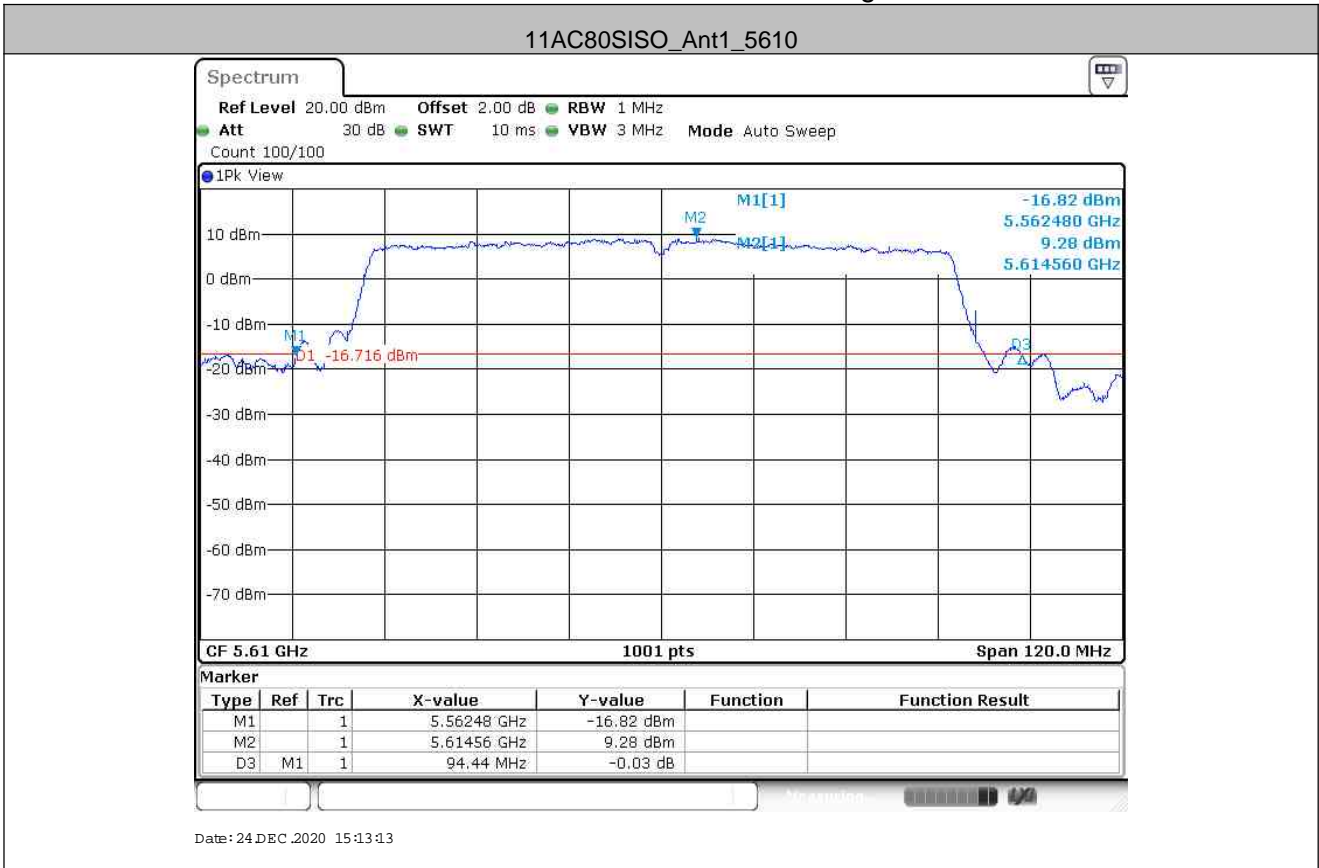
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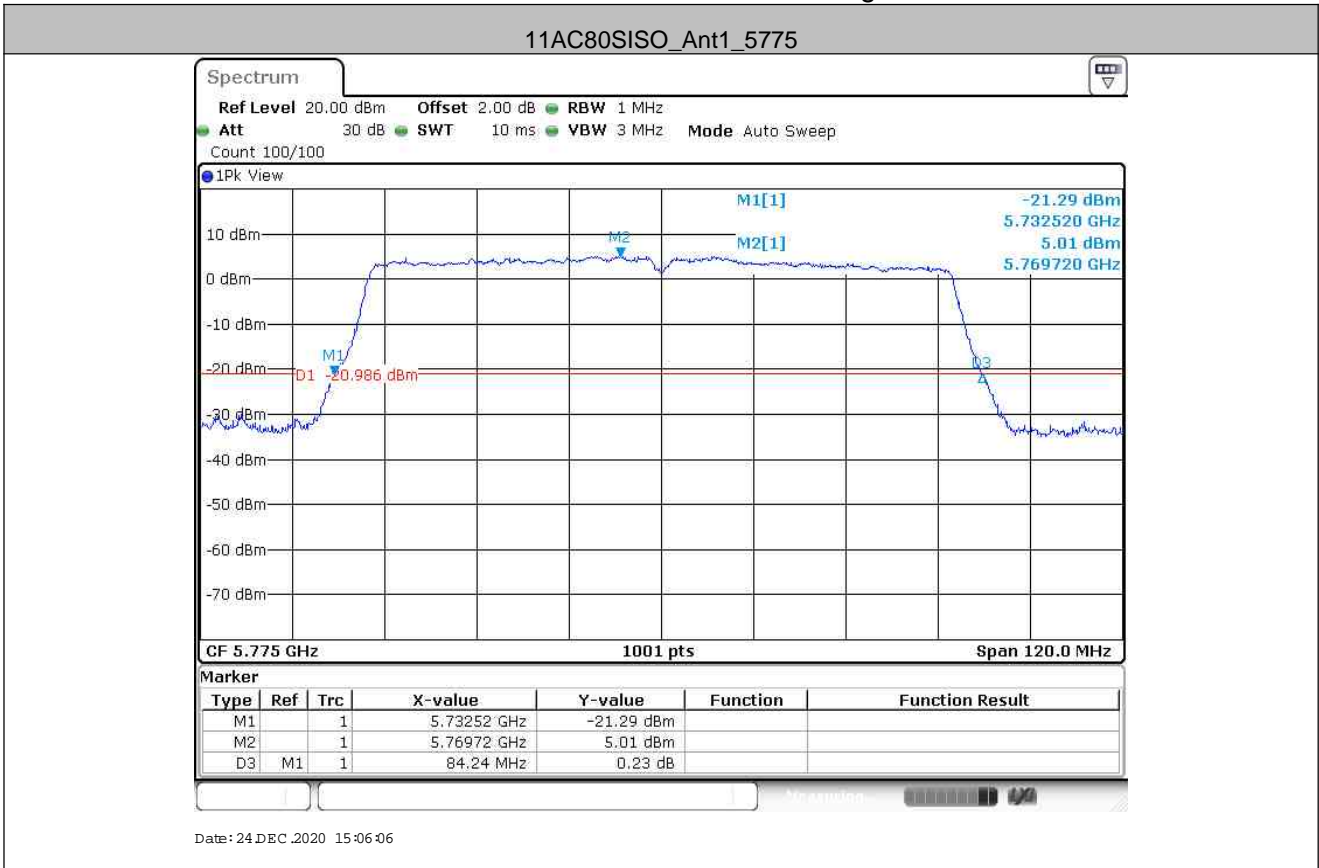
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Occupied channel bandwidth
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.723	5171.638	5188.362	---	PASS
		5200	16.723	5191.638	5208.362	---	PASS
		5240	16.723	5231.638	5248.362	---	PASS
		5260	16.753	5251.608	5268.362	---	PASS
		5300	16.783	5291.608	5308.392	---	PASS
		5320	16.783	5311.608	5328.392	---	PASS
		5500	16.753	5491.608	5508.362	---	PASS
		5580	16.723	5571.608	5588.332	---	PASS
		5700	16.783	5691.578	5708.362	---	PASS
		5745	16.693	5736.608	5753.302	---	PASS
		5785	16.663	5776.638	5793.302	---	PASS
		5825	16.693	5816.608	5833.302	---	PASS
11N20SISO	Ant1	5180	17.892	5171.069	5188.961	---	PASS
		5200	17.892	5191.069	5208.961	---	PASS
		5240	17.892	5231.069	5248.961	---	PASS
		5260	17.892	5251.069	5268.961	---	PASS
		5300	17.892	5291.099	5308.991	---	PASS
		5320	17.892	5311.099	5328.991	---	PASS
		5500	17.892	5491.069	5508.961	---	PASS
		5580	17.892	5571.069	5588.961	---	PASS
		5700	17.922	5691.039	5708.961	---	PASS
		5745	17.832	5736.069	5753.901	---	PASS
		5785	17.862	5776.069	5793.931	---	PASS
		5825	17.832	5816.069	5833.901	---	PASS
11N40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.384	5211.838	5248.222	---	PASS
		5270	36.324	5251.898	5288.222	---	PASS
		5310	36.384	5291.838	5328.222	---	PASS
		5510	36.324	5491.838	5528.162	---	PASS



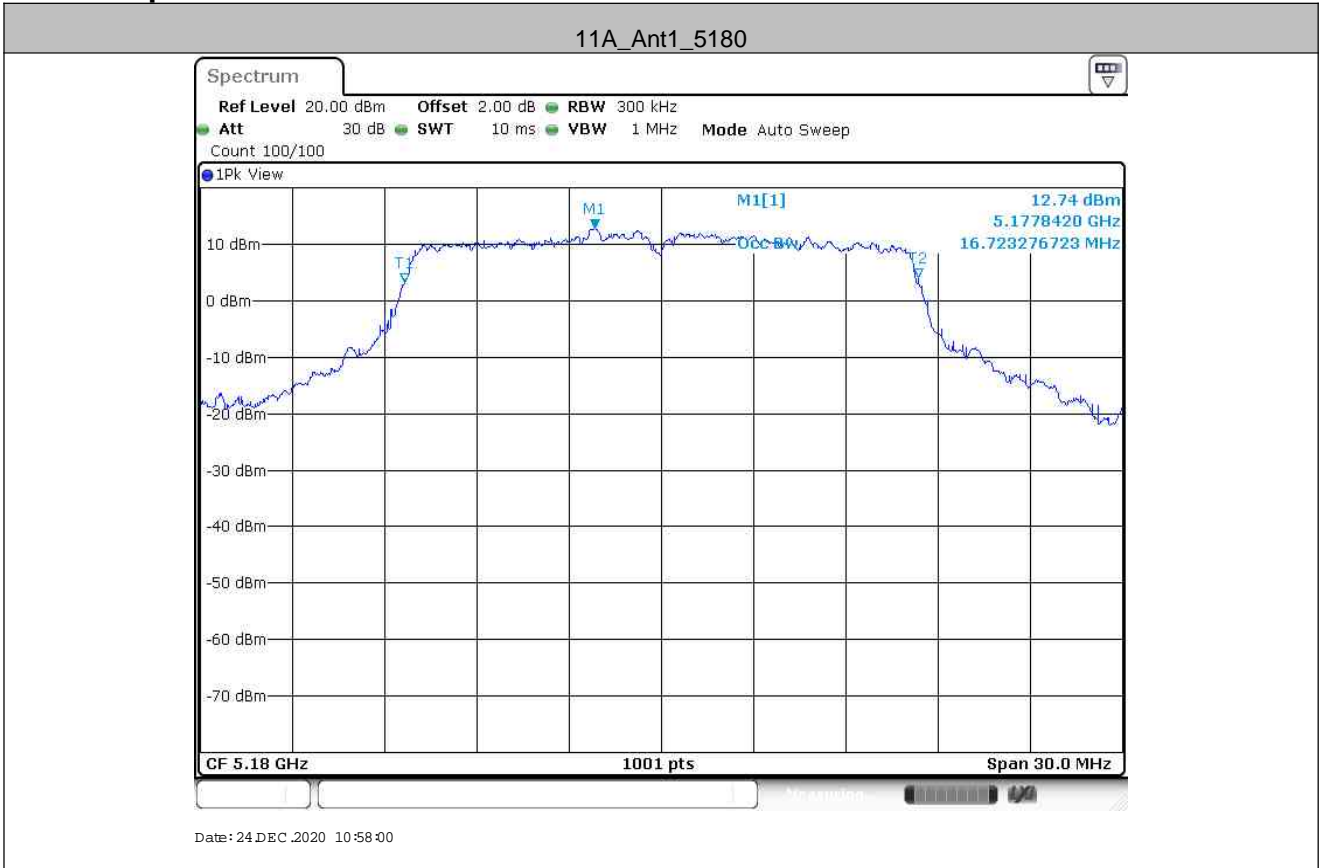
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		5550	36.384	5531.778	5568.162	---	PASS
		5670	36.384	5651.778	5688.162	---	PASS
		5755	36.384	5736.778	5773.162	---	PASS
		5795	36.324	5776.838	5813.162	---	PASS
11AC20SISO	Ant1	5180	17.892	5171.069	5188.961	---	PASS
		5200	17.892	5191.069	5208.961	---	PASS
		5240	17.892	5231.069	5248.961	---	PASS
		5260	17.892	5251.069	5268.961	---	PASS
		5300	17.922	5291.069	5308.991	---	PASS
		5320	17.922	5311.069	5328.991	---	PASS
		5500	17.892	5491.069	5508.961	---	PASS
		5580	17.892	5571.069	5588.961	---	PASS
		5700	17.922	5691.039	5708.961	---	PASS
		5745	17.892	5736.039	5753.931	---	PASS
		5745	17.892	5736.039	5753.931	---	PASS
		5785	17.832	5776.069	5793.901	---	PASS
		5825	17.862	5816.069	5833.931	---	PASS
11AC40SISO	Ant1	5190	36.324	5171.838	5208.162	---	PASS
		5230	36.324	5211.838	5248.162	---	PASS
		5270	36.384	5251.838	5288.222	---	PASS
		5310	36.384	5291.838	5328.222	---	PASS
		5510	36.384	5491.778	5528.162	---	PASS
		5550	36.384	5531.778	5568.162	---	PASS
		5670	36.384	5651.778	5688.162	---	PASS
		5755	36.384	5736.778	5773.162	---	PASS
		5795	36.384	5776.778	5813.162	---	PASS
11AC80SISO	Ant1	5210	75.644	5172.238	5247.882	---	PASS
		5290	75.644	5252.238	5327.882	---	PASS
		5530	75.884	5491.998	5567.882	---	PASS
		5610	75.884	5571.998	5647.882	---	PASS
		5775	75.764	5736.998	5812.762	---	PASS



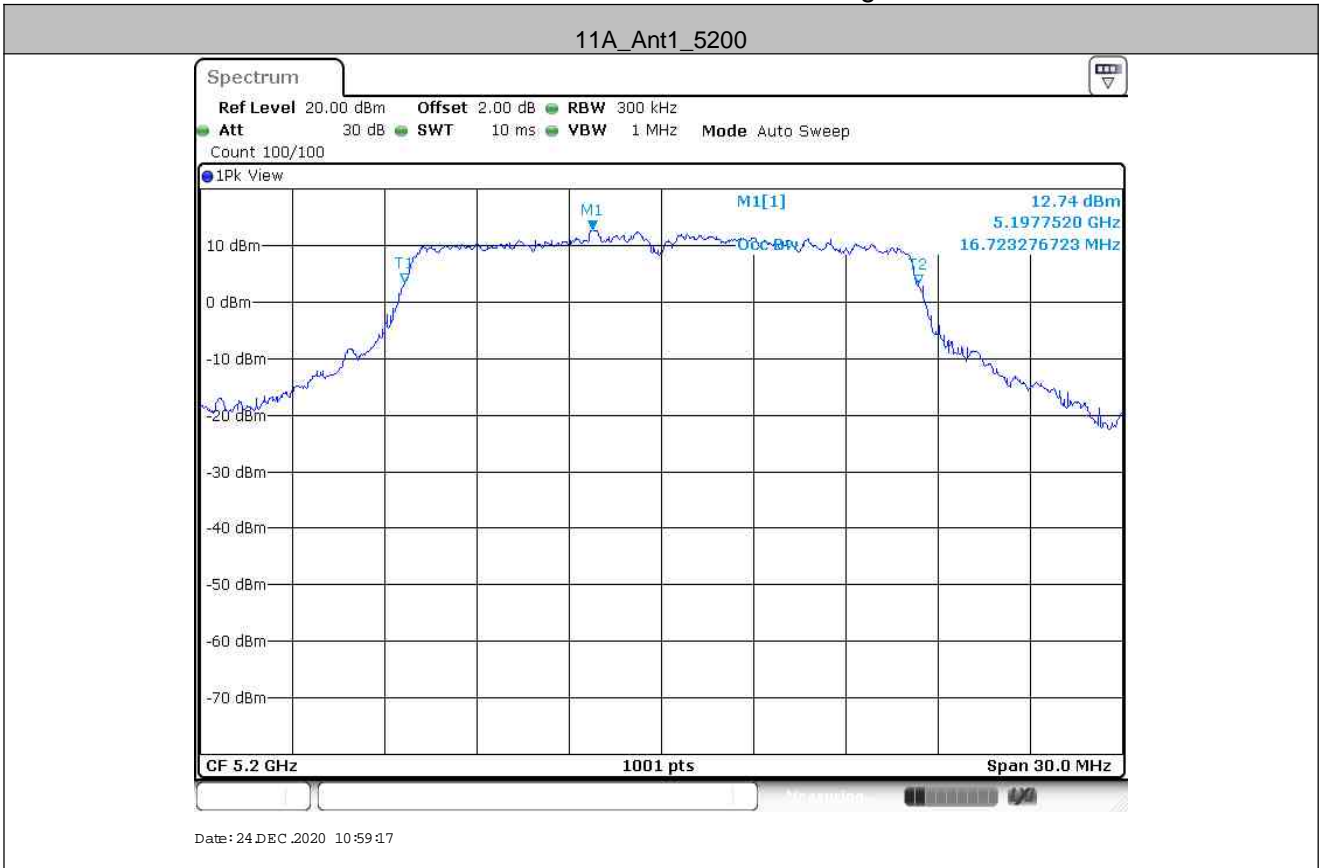
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Test Graphs

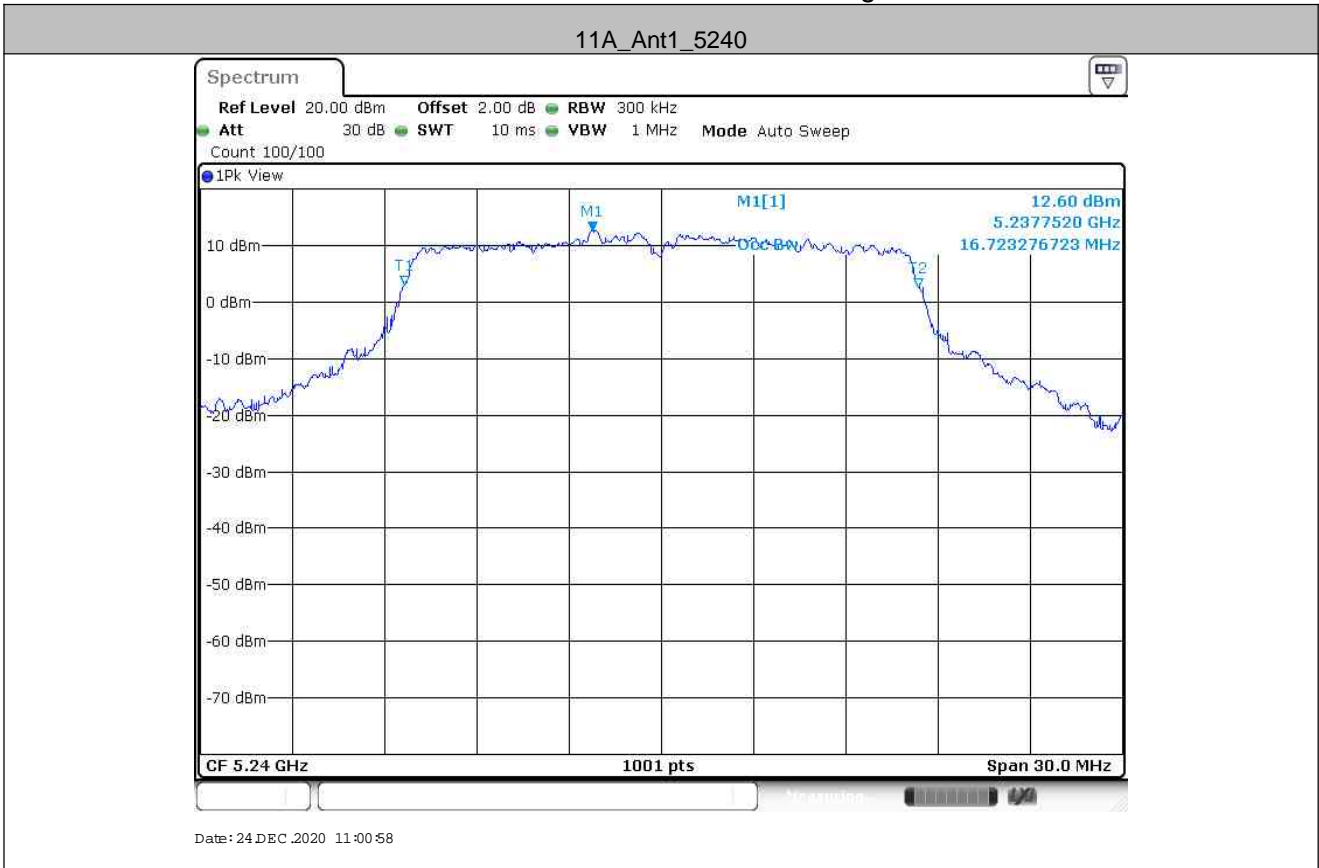


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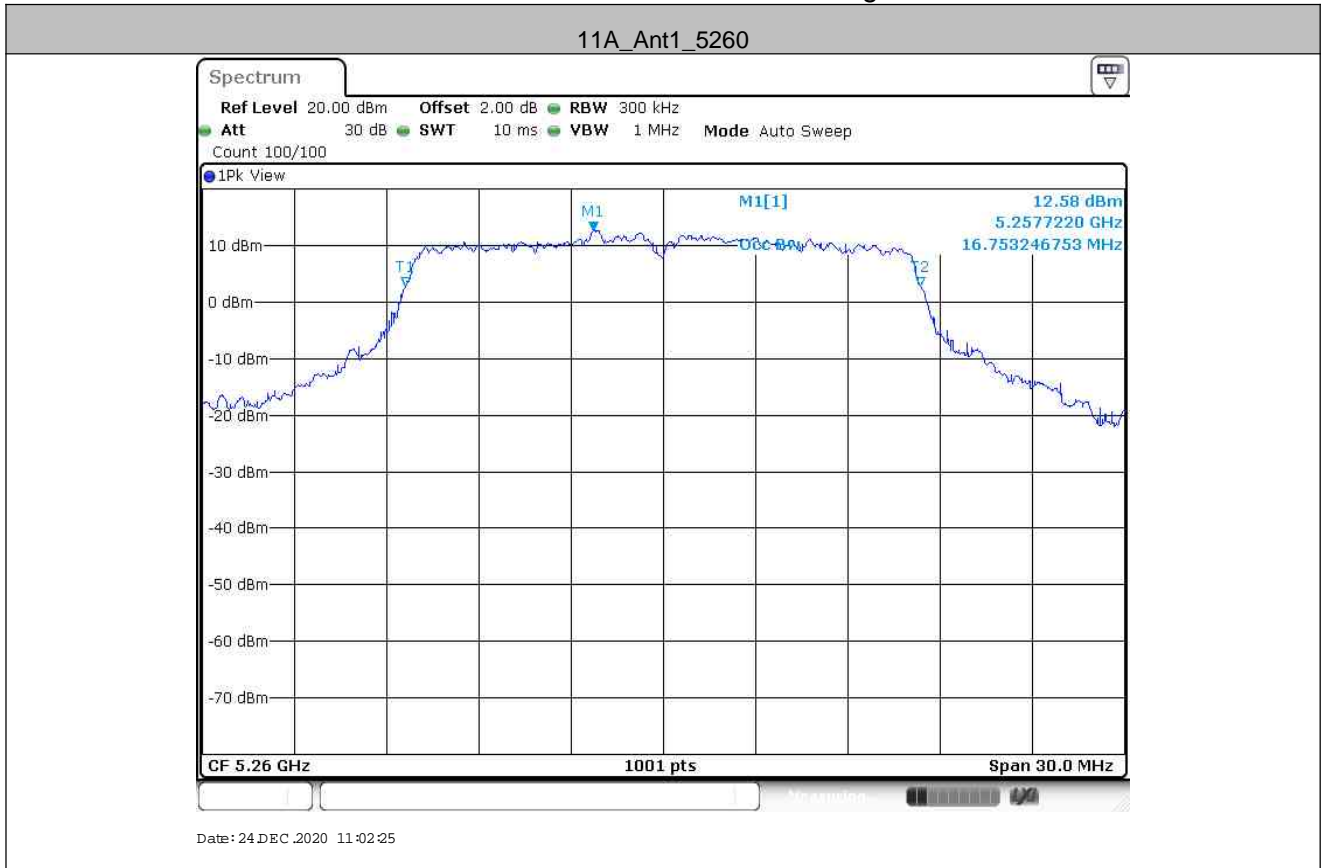
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