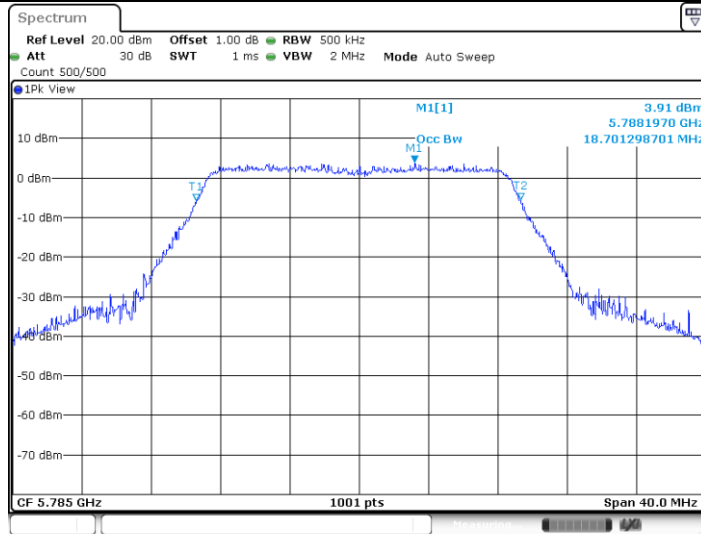
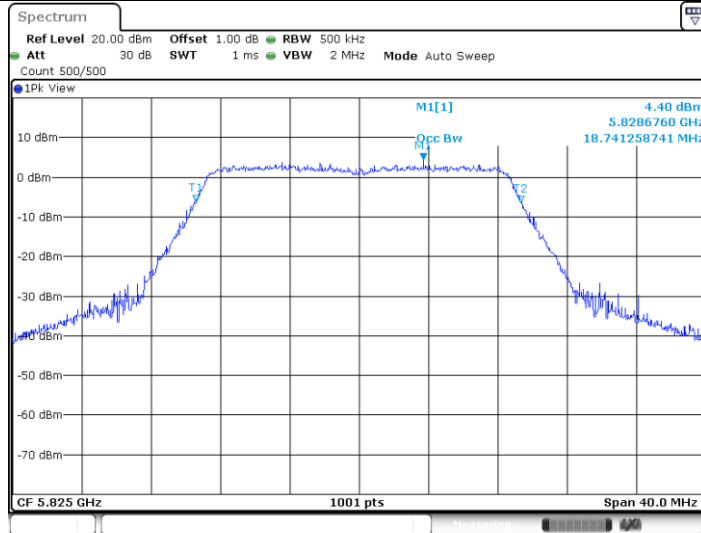


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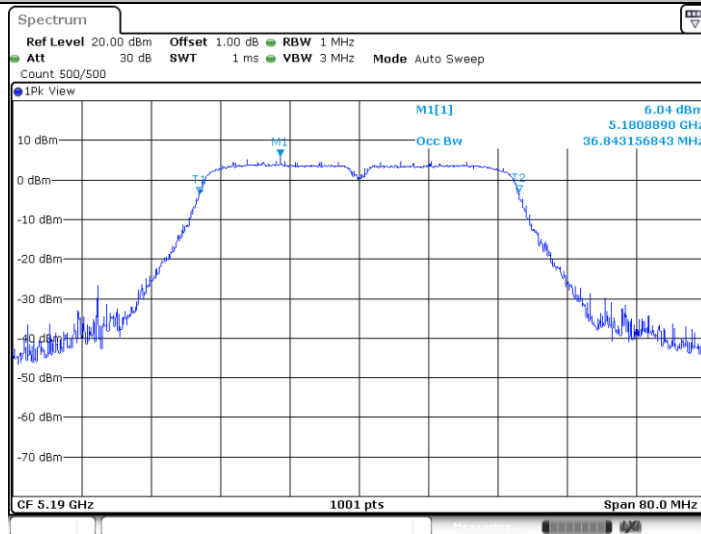
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11N20SISO_Ant1_5825



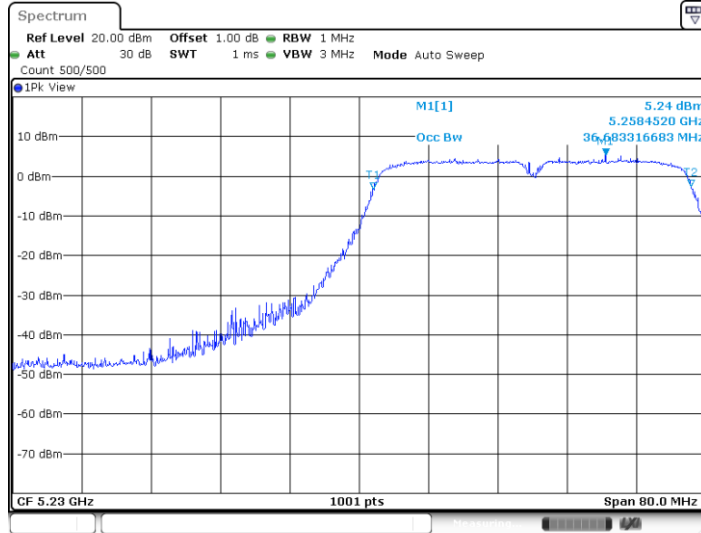
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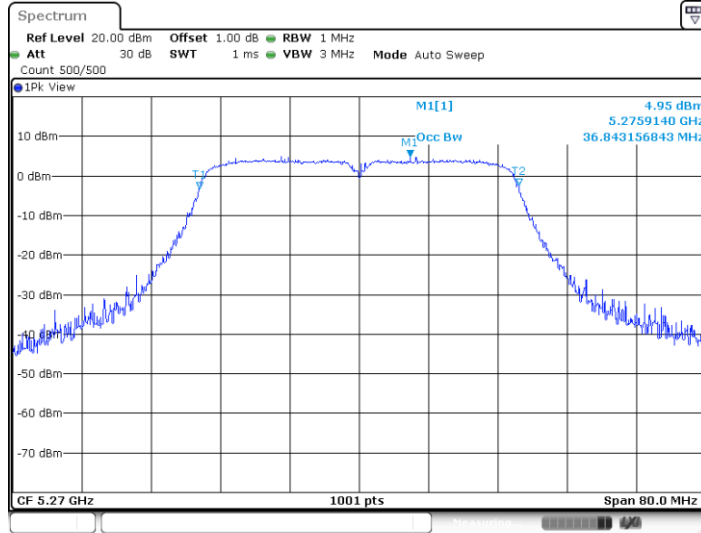
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11N40SISO_Ant1_5230



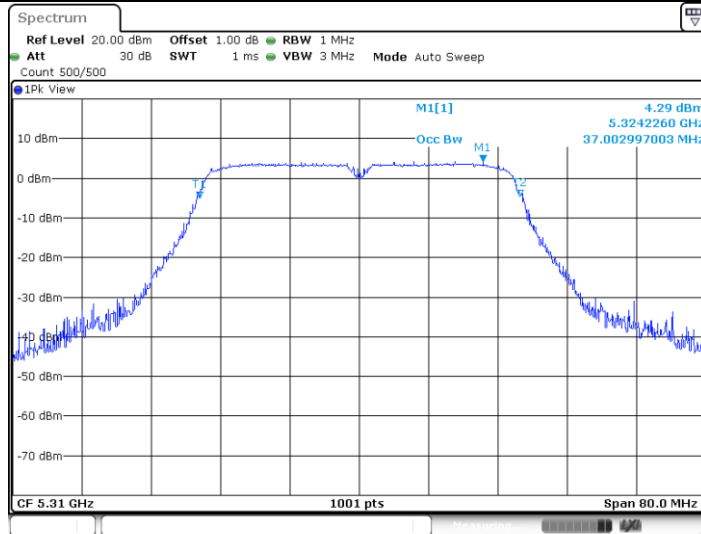
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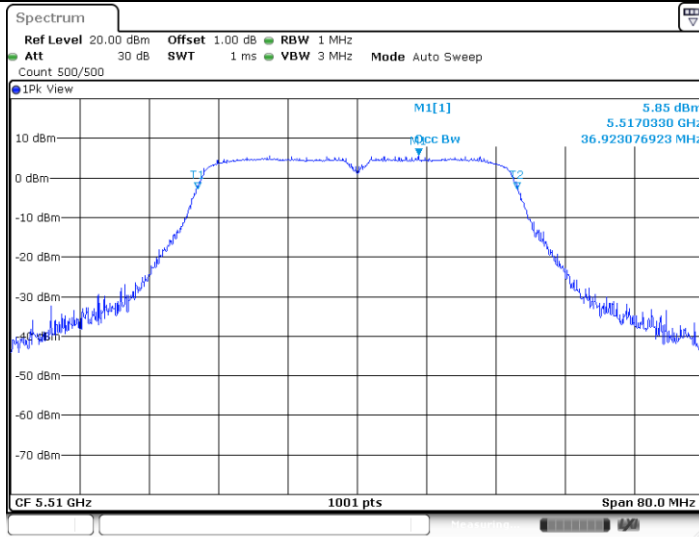
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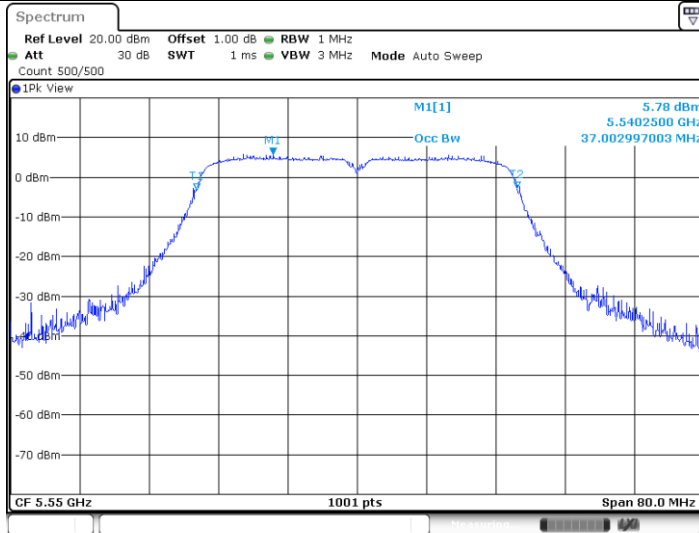
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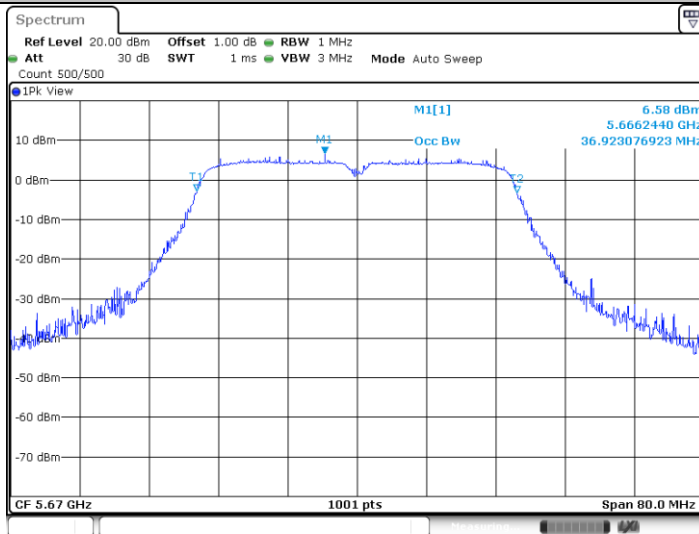
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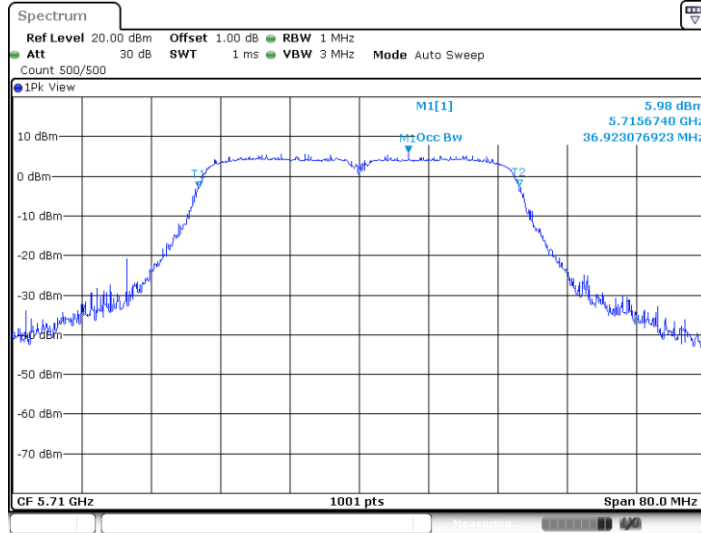
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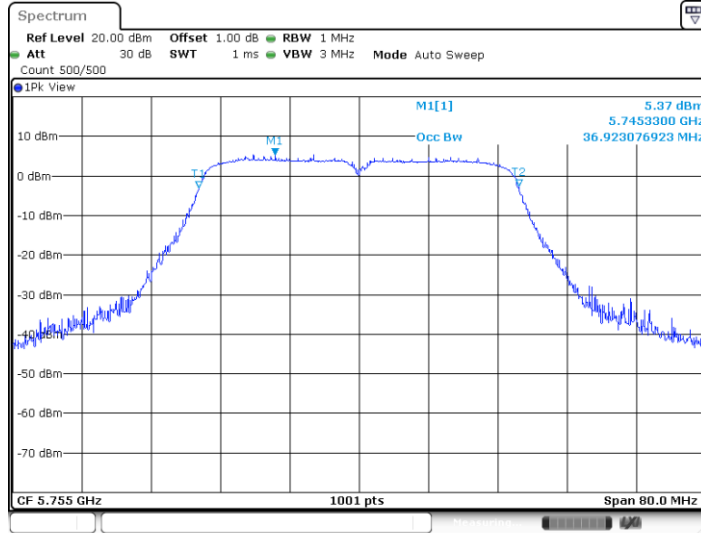
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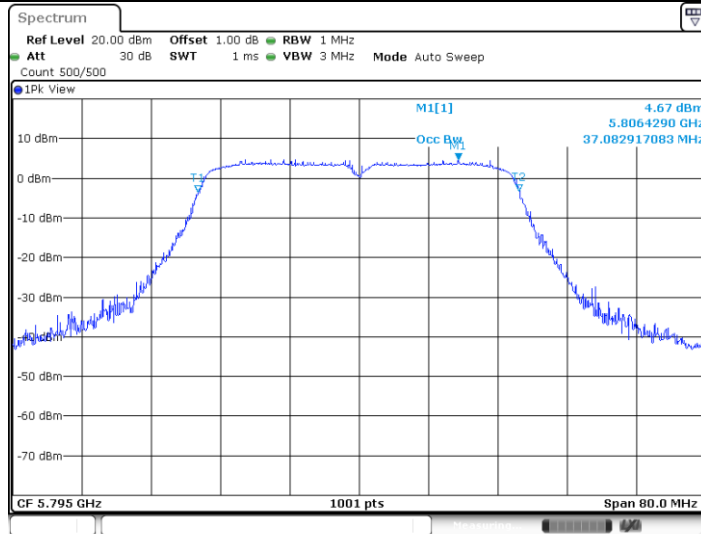
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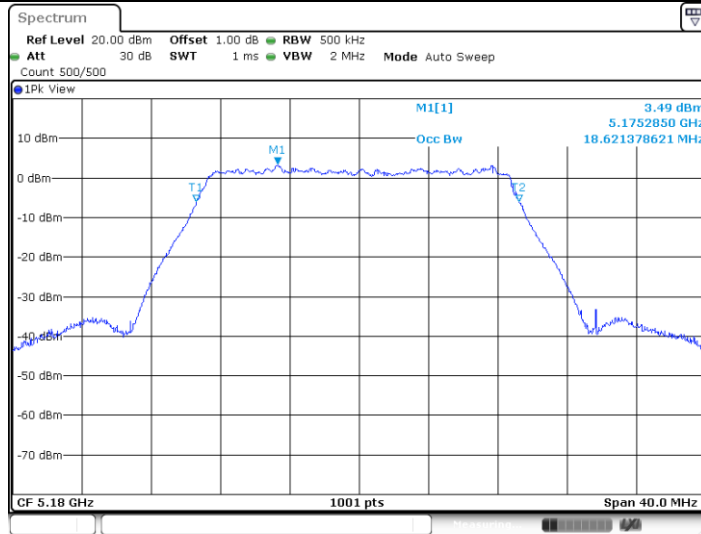
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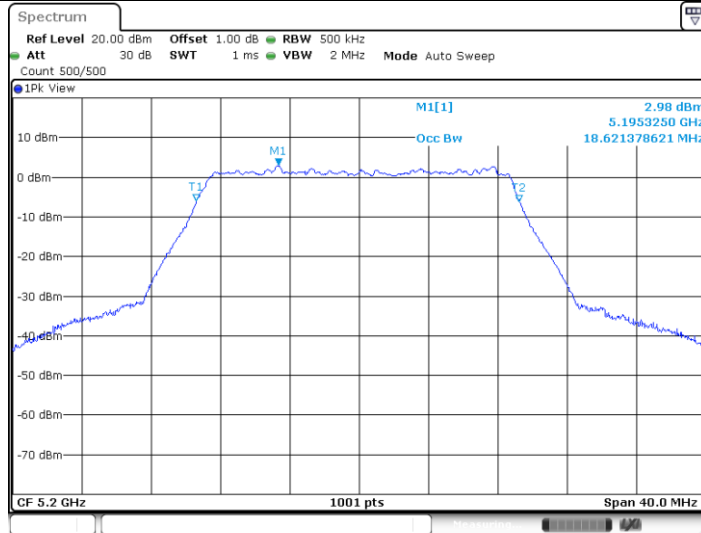
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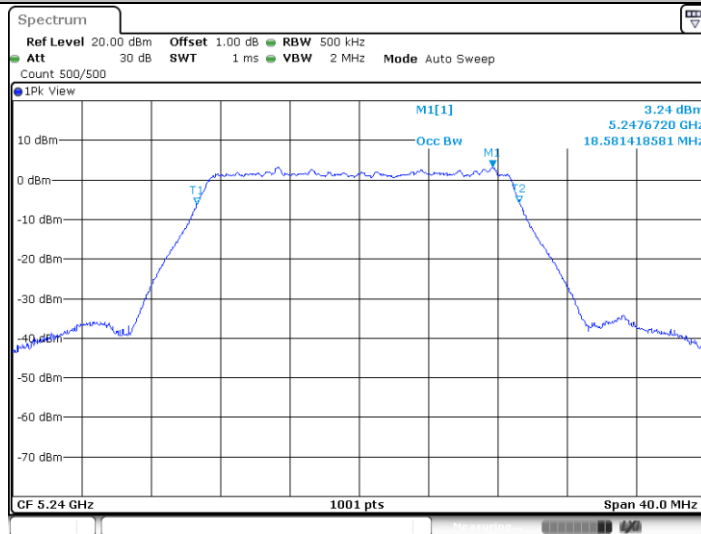
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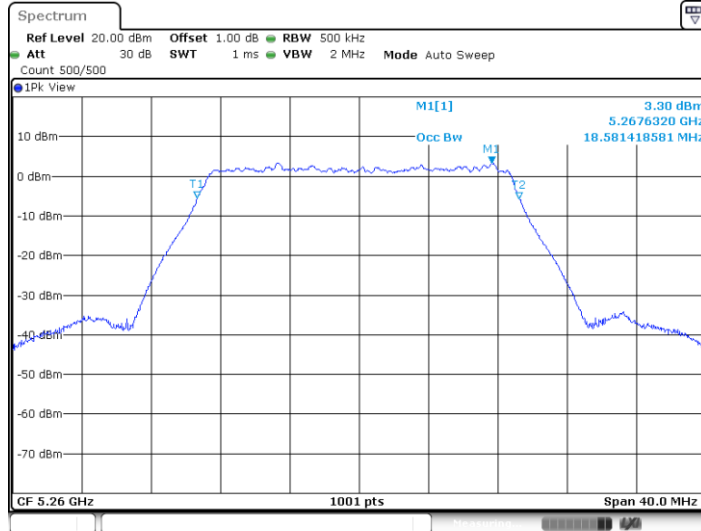
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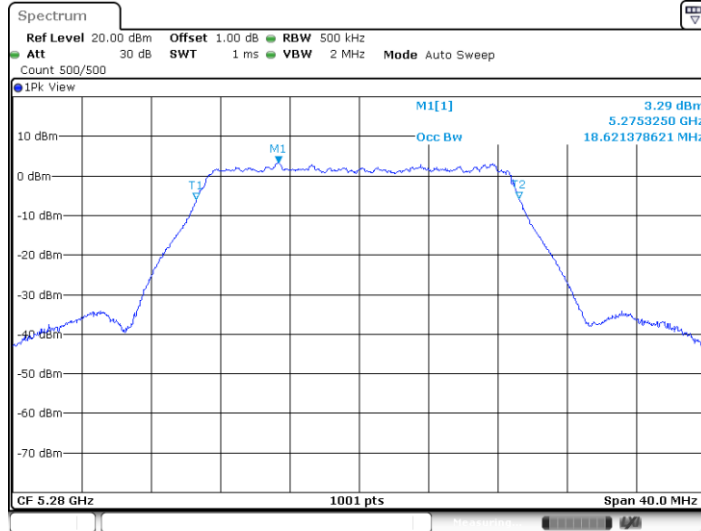


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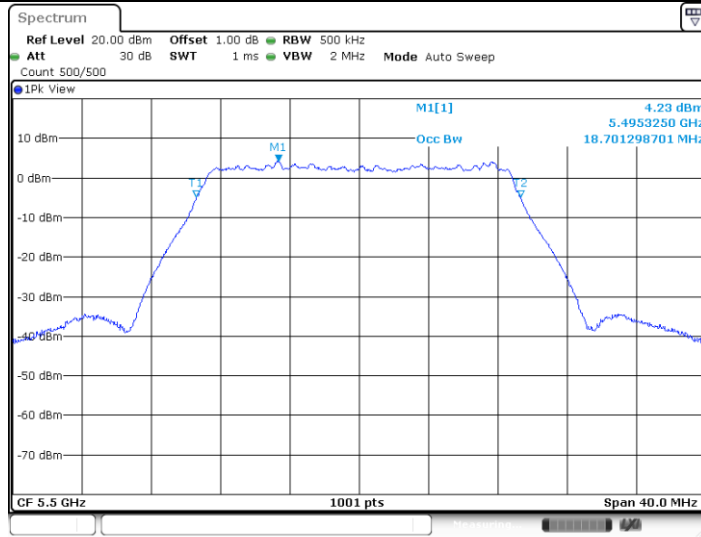
11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320

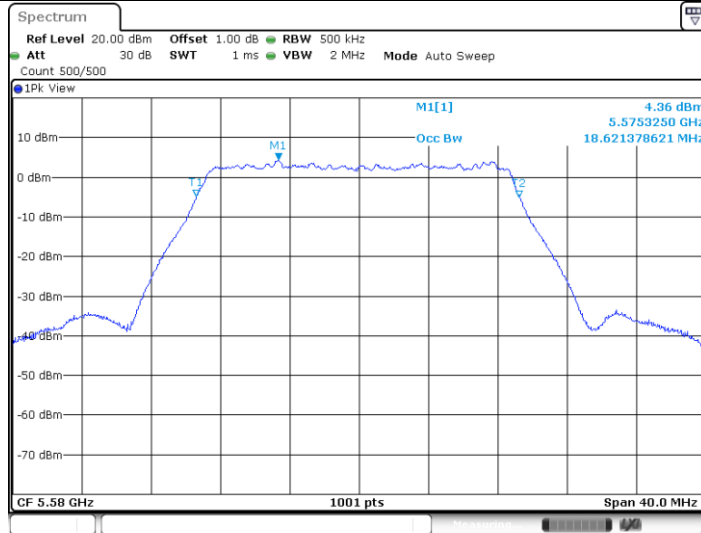


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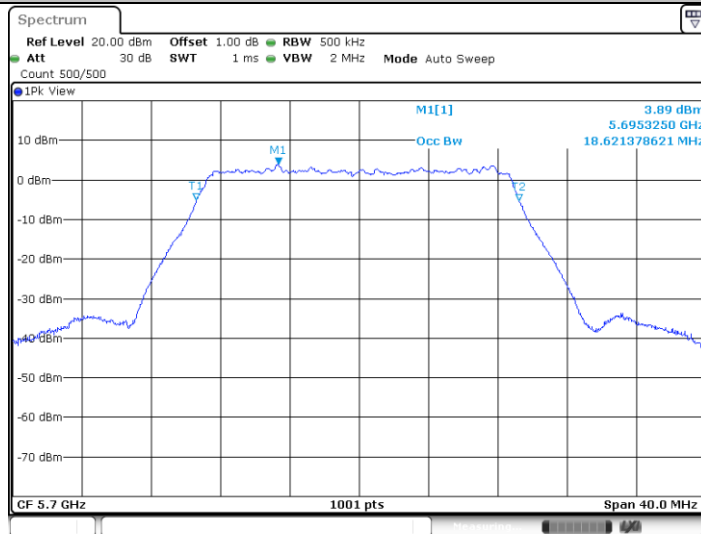
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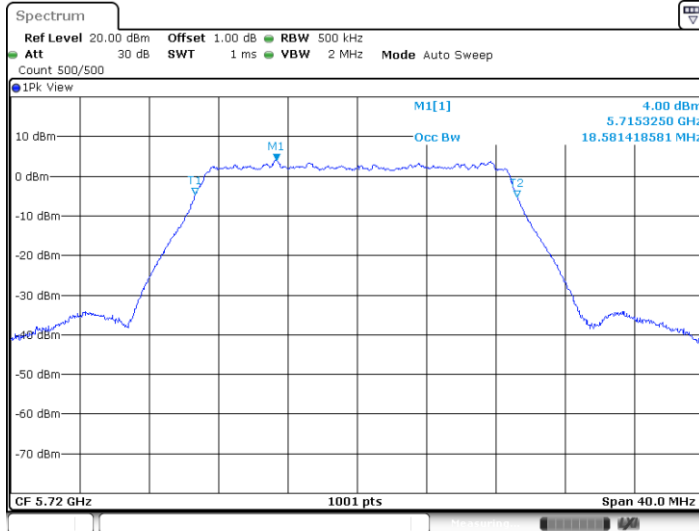
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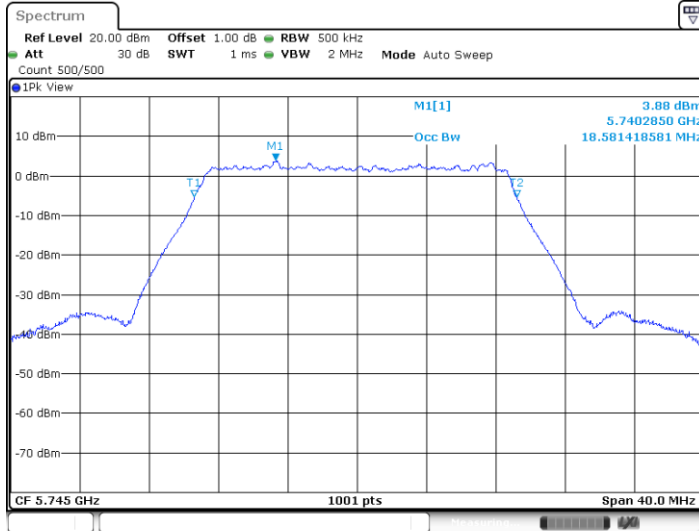
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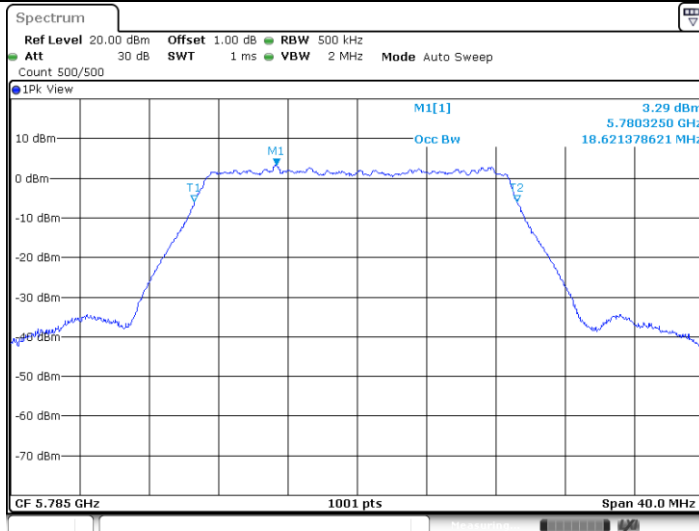
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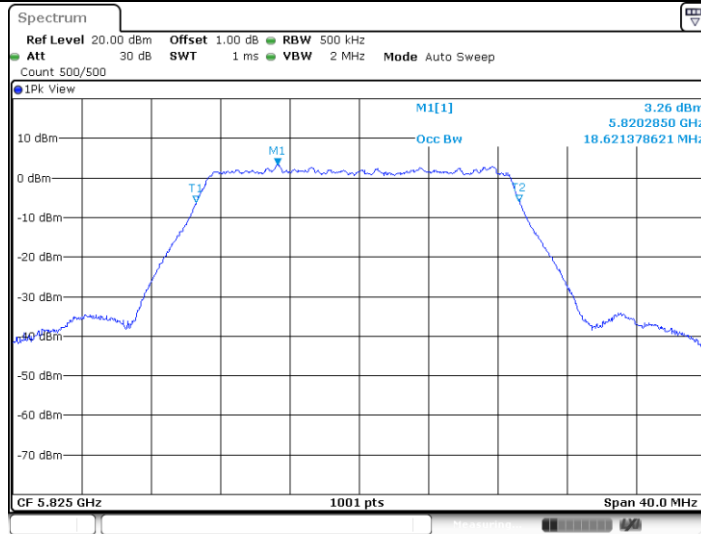
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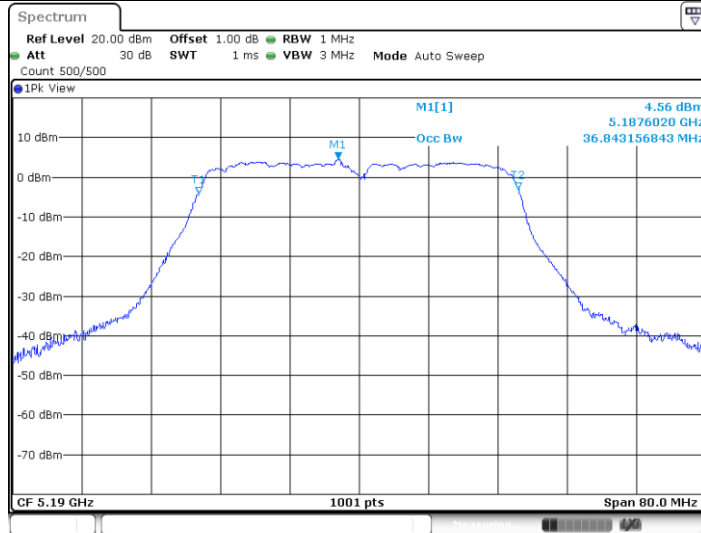
Date: 4 DEC.2020 14:09:23

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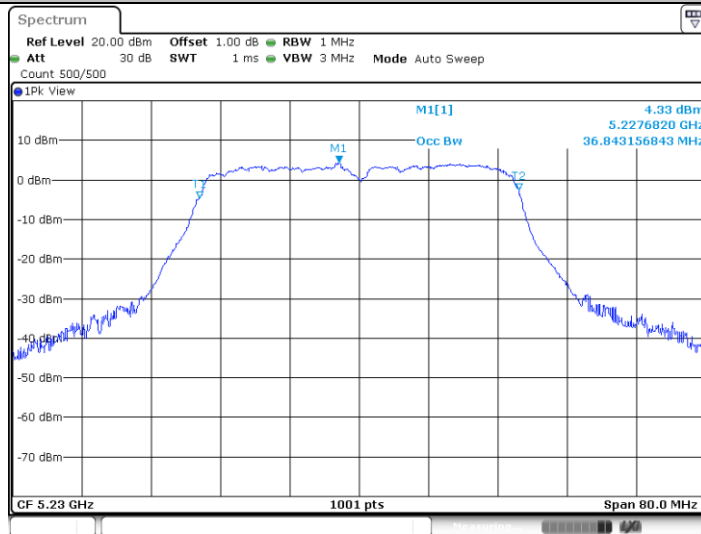
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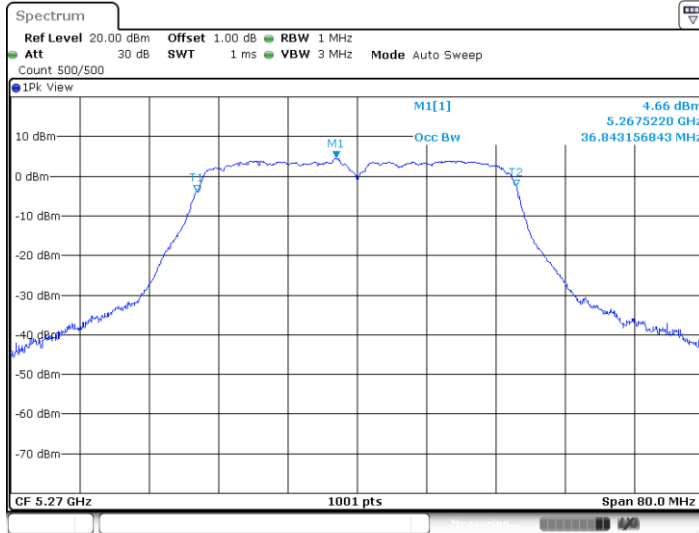
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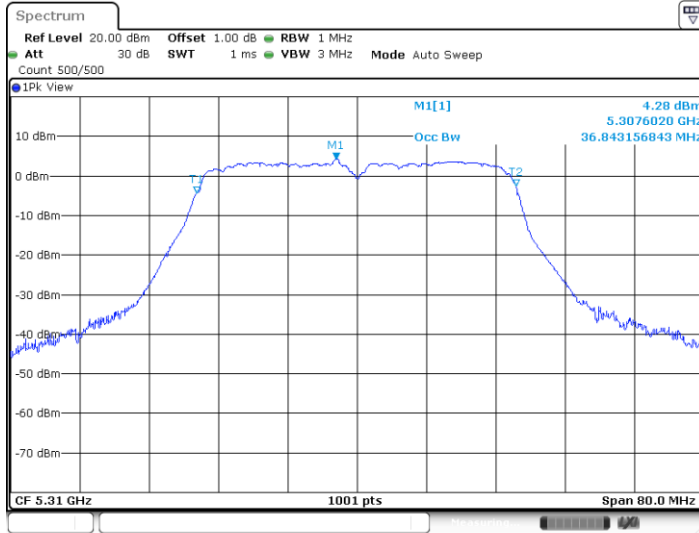


Date: 4 DEC.2020 16:37:48

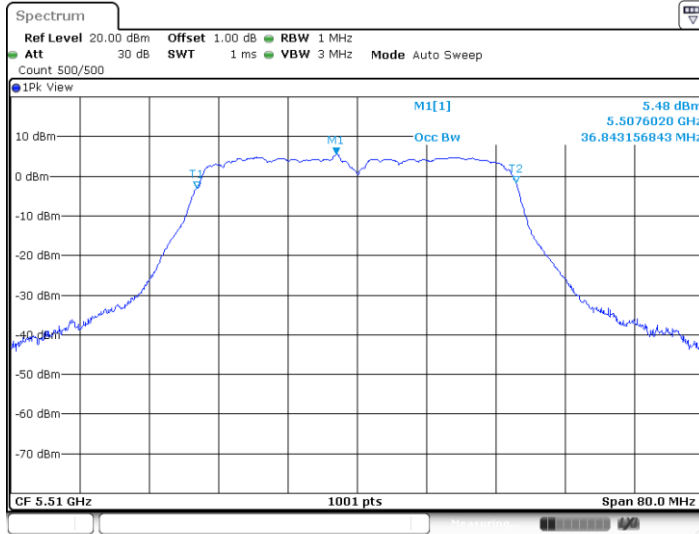
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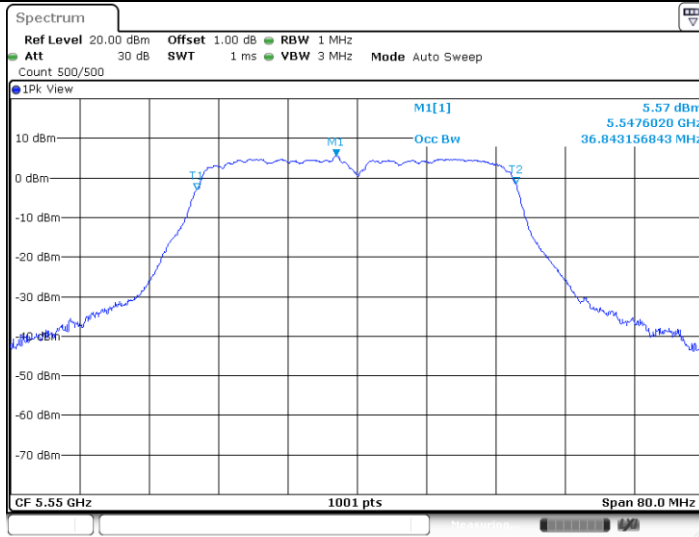
11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510

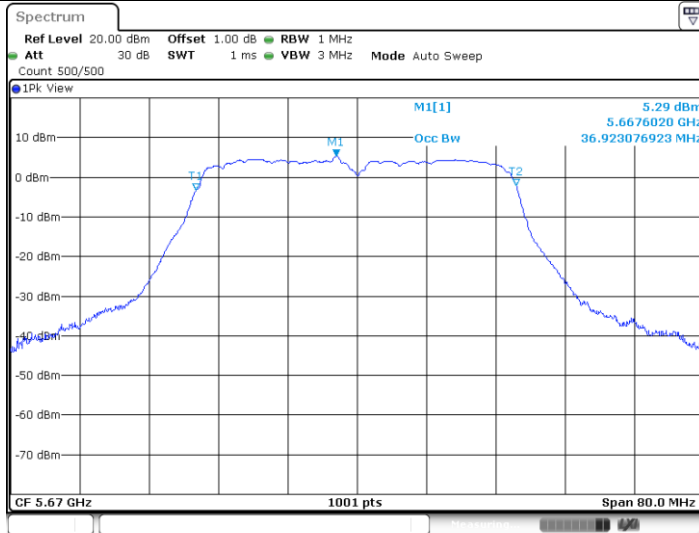


11AC40SISO_Ant1_5550



Date: 4 DEC.2020 16:46:05

11AC40SISO_Ant1_5670



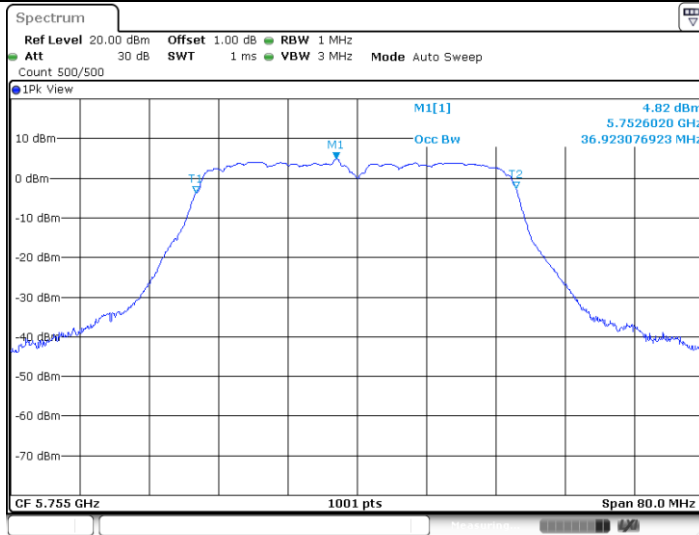
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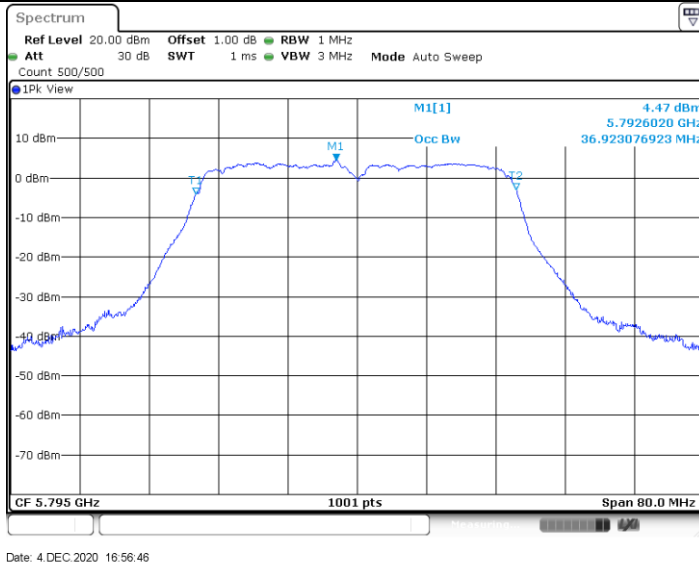


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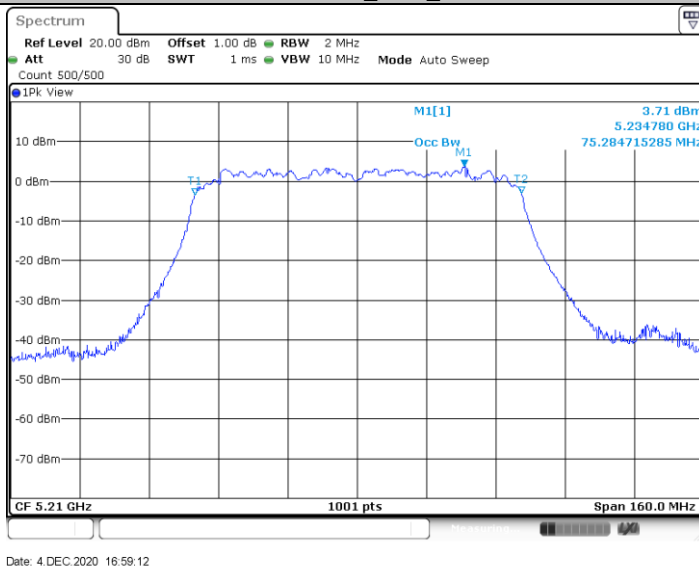
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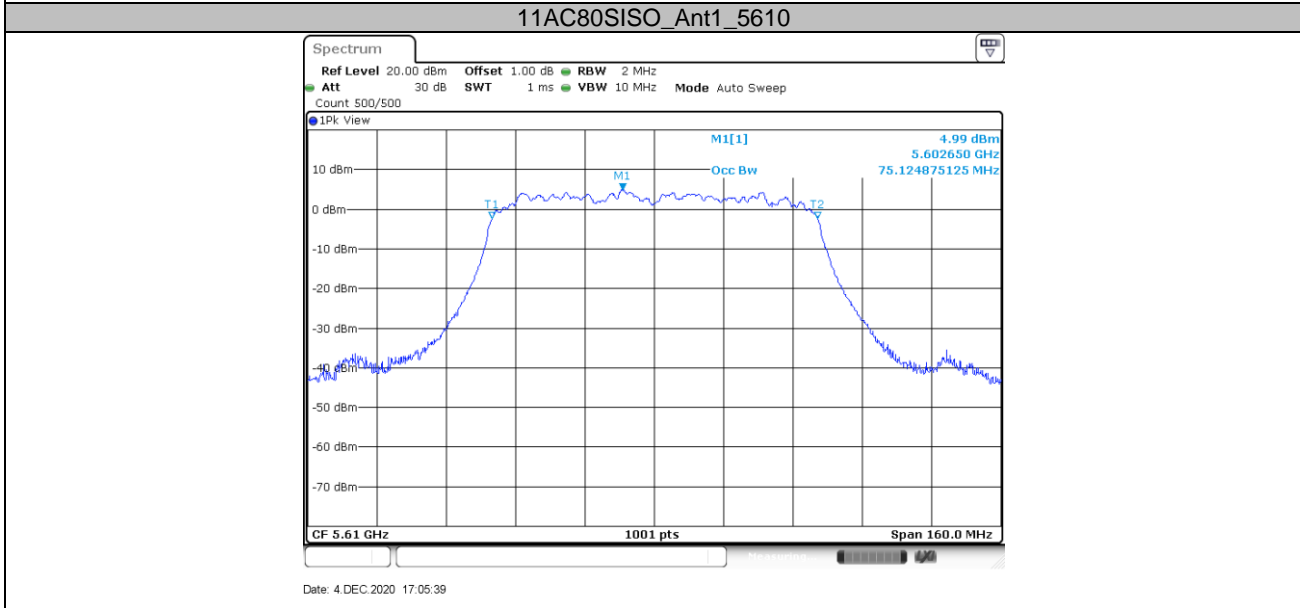
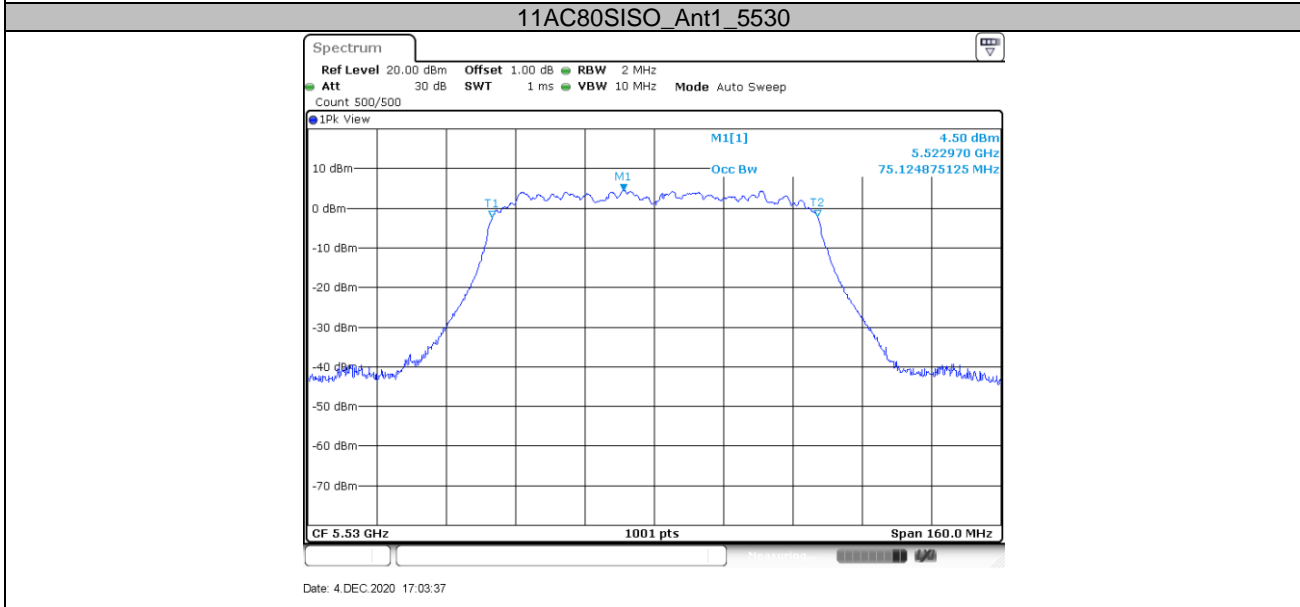
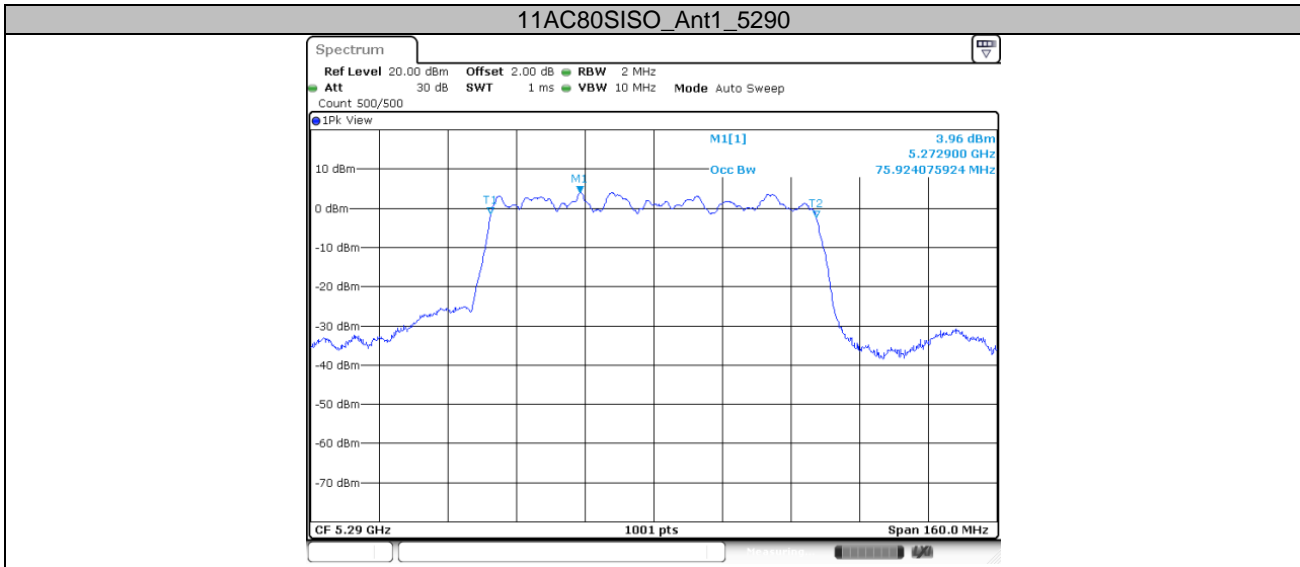


11AC40SISO_Ant1_5795

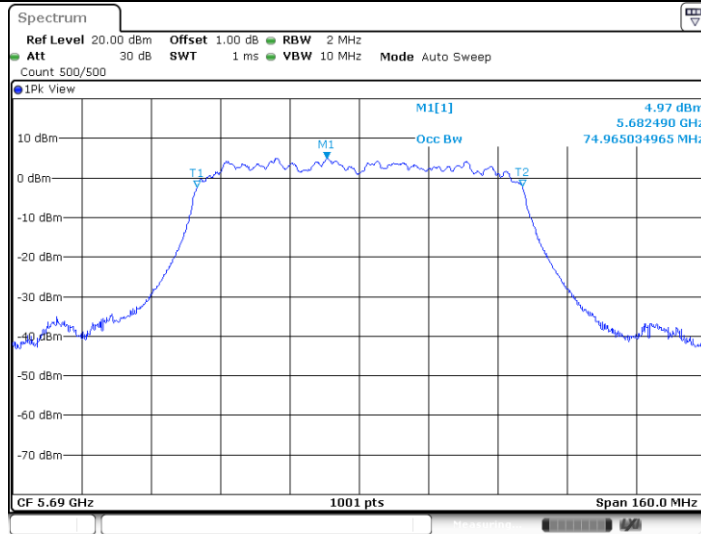


11AC80SISO_Ant1_5210



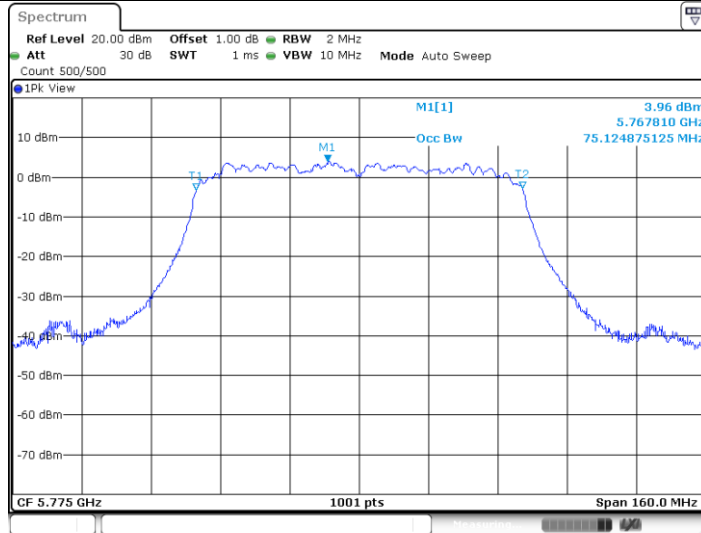


11AC80SISO_Ant1_5690



Date: 4 DEC.2020 17:09:05

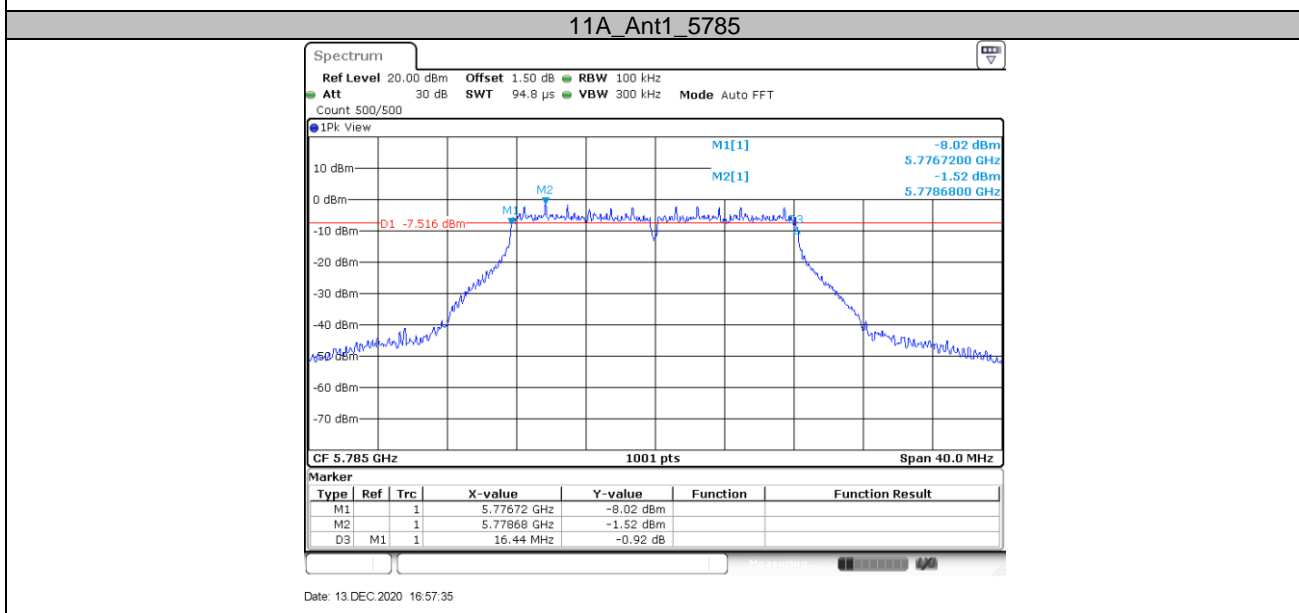
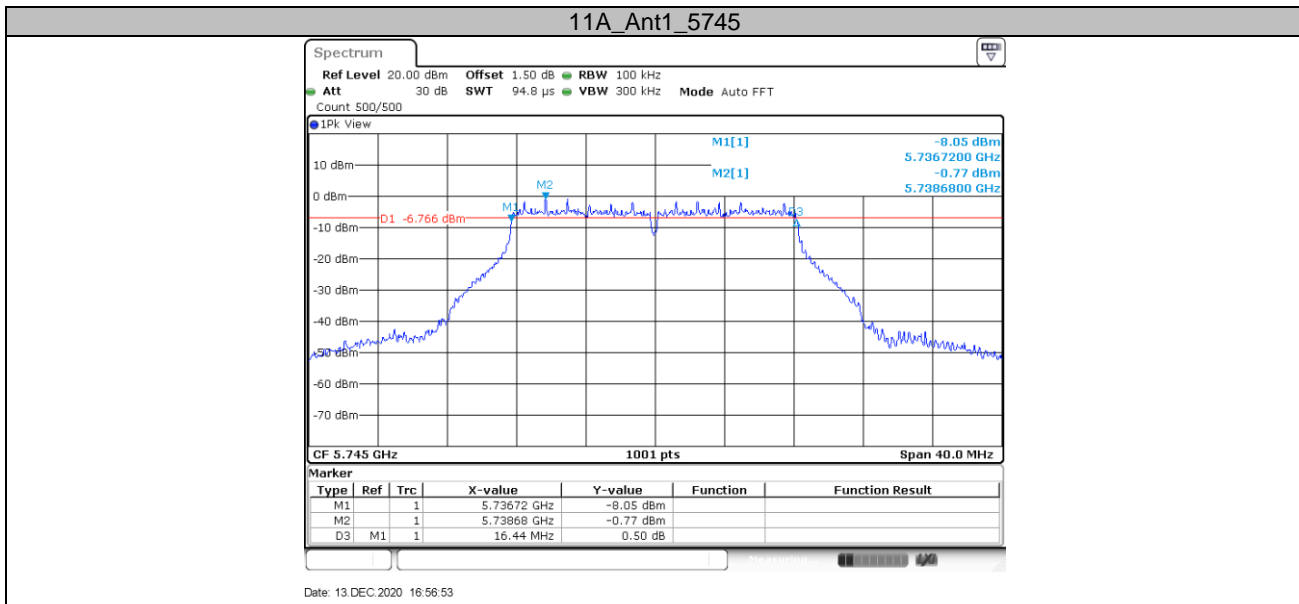
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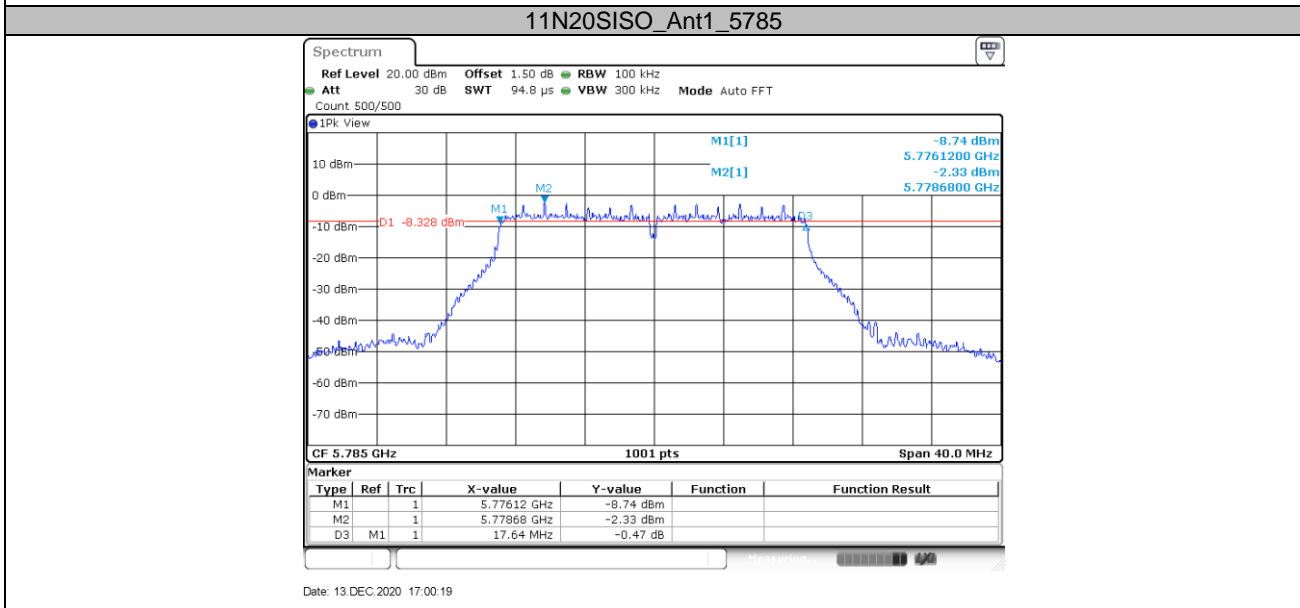
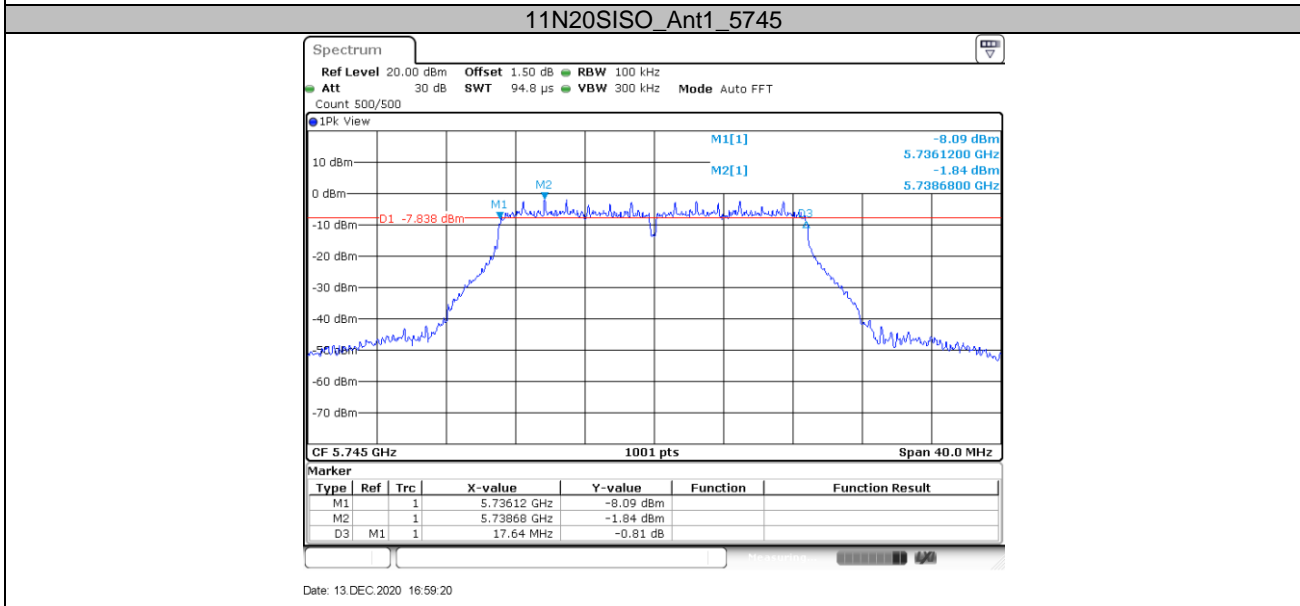
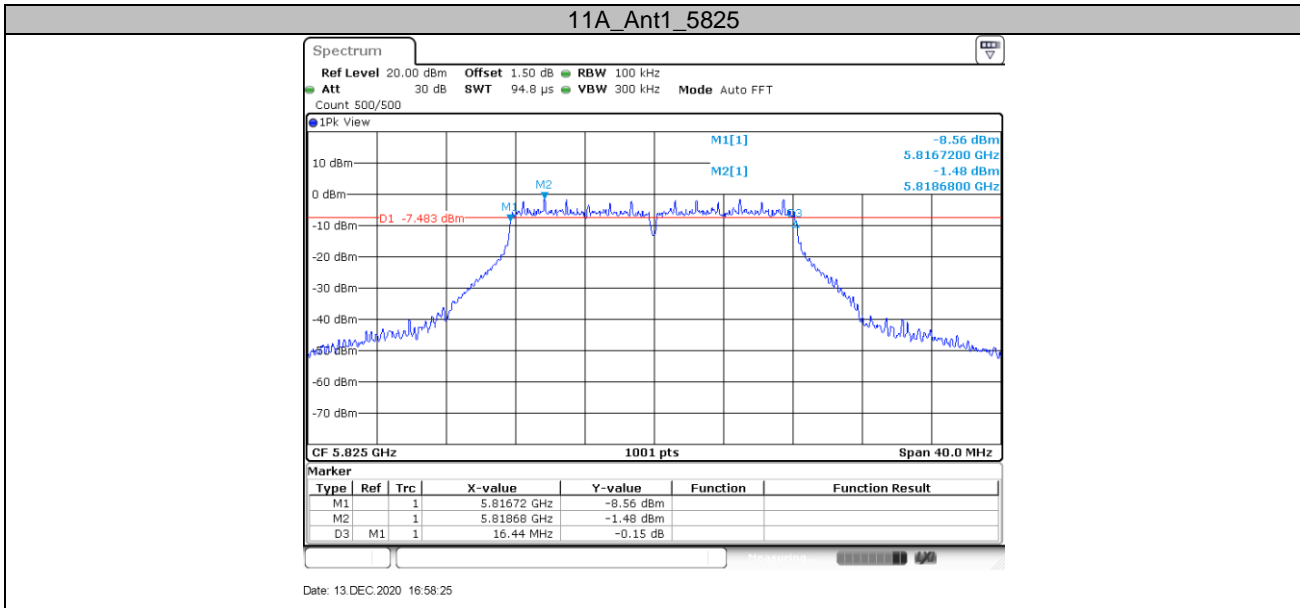


Date: 4 DEC.2020 17:11:53

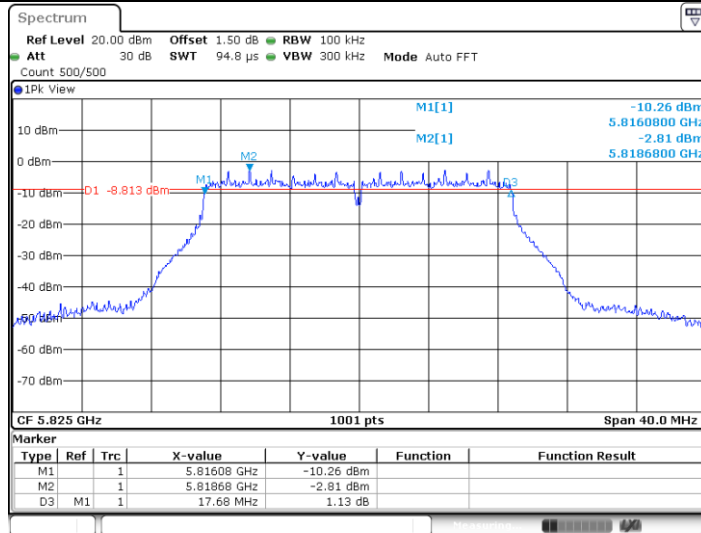
6dB Bandwidth Test Result

TestMode	Antenna	Channel [MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.440	5736.720	5753.160	0.5	PASS
		5785	16.440	5776.720	5793.160	0.5	PASS
		5825	16.440	5816.720	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.640	5736.120	5753.760	0.5	PASS
		5785	17.640	5776.120	5793.760	0.5	PASS
		5825	17.680	5816.080	5833.760	0.5	PASS
11N40SISO	Ant1	5755	35.520	5737.080	5772.600	0.5	PASS
		5795	35.600	5777.000	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.120	5753.760	0.5	PASS
		5785	17.680	5776.080	5793.760	0.5	PASS
		5825	17.640	5816.120	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
		5795	35.600	5777.080	5812.680	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.240	5812.600	0.5	PASS

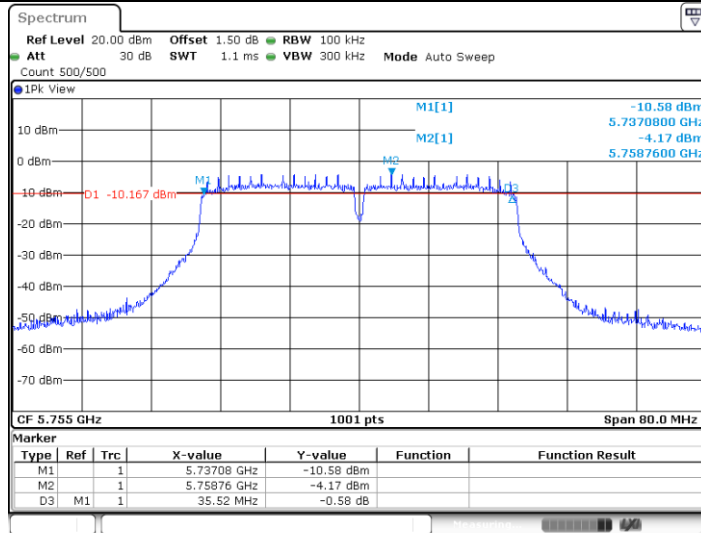




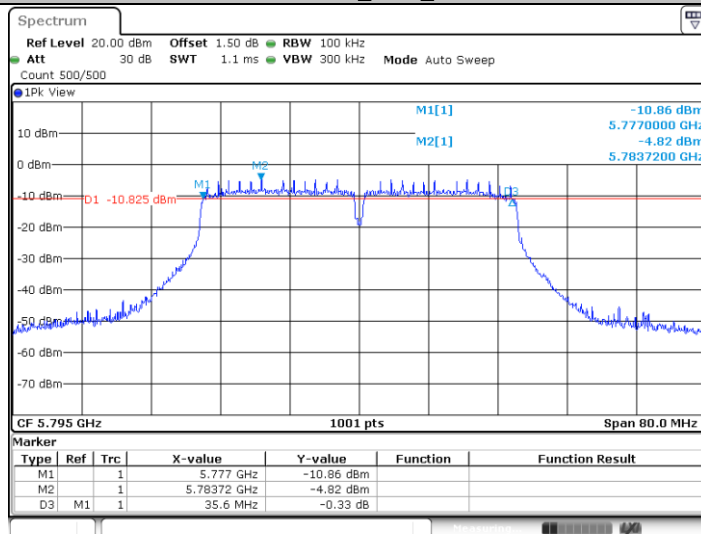
11N20SISO_Ant1_5825



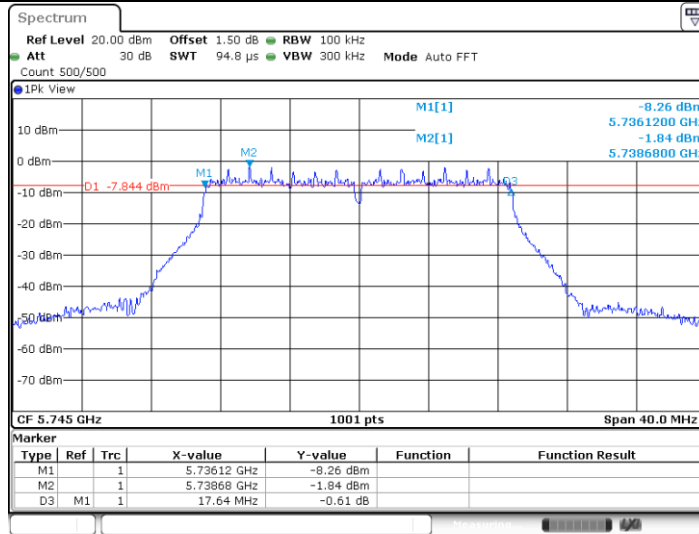
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

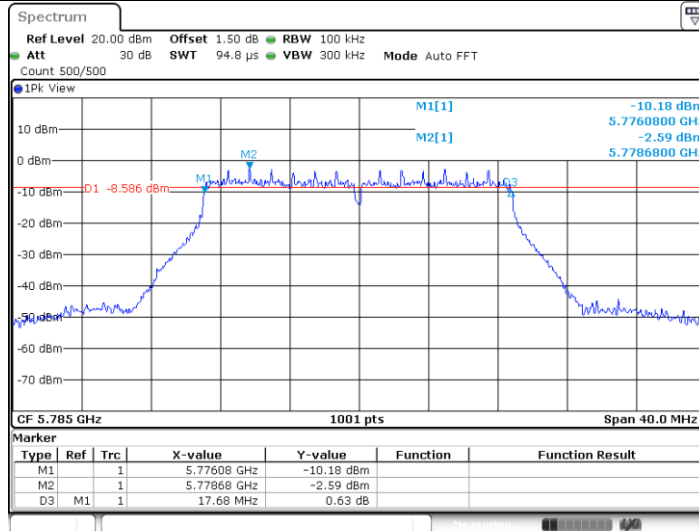


11AC20SISO_Ant1_5745



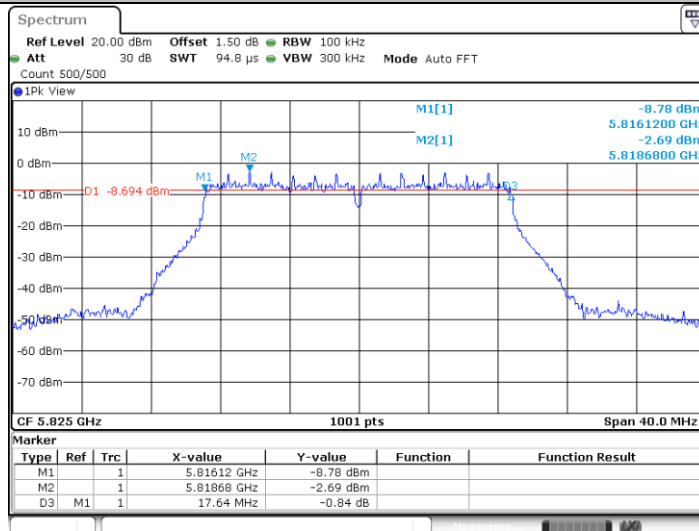
Date: 13 DEC 2020 17:05:07

11AC20SISO_Ant1_5785



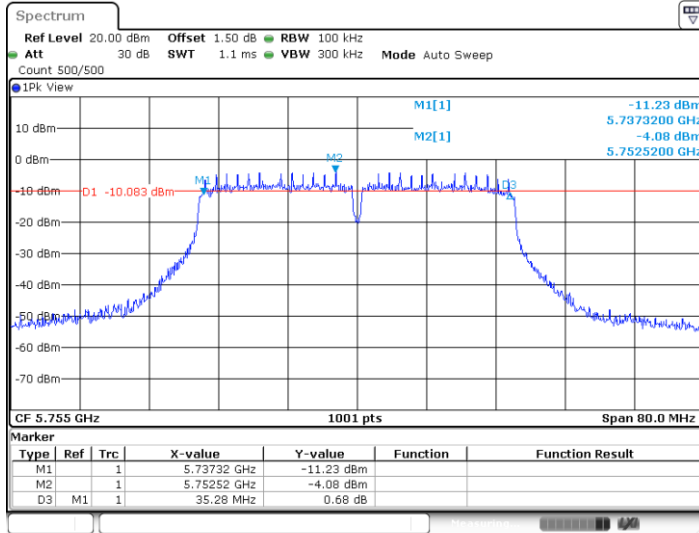
Date: 13 DEC 2020 17:06:19

11AC20SISO_Ant1_5825

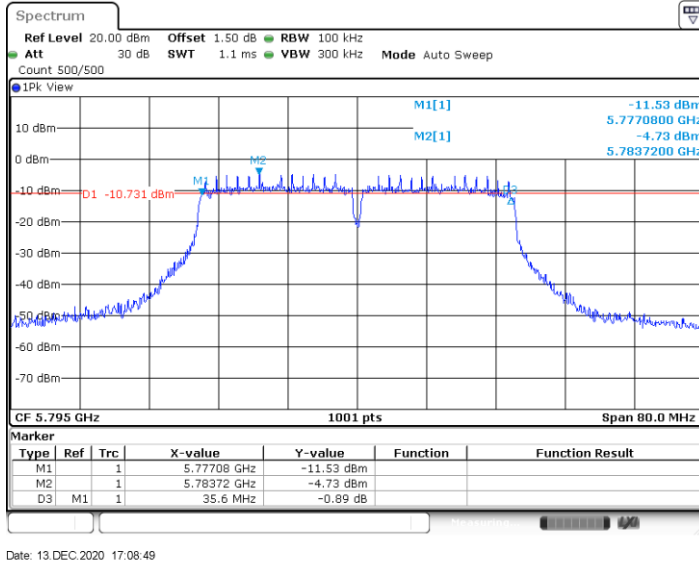


Date: 13 DEC 2020 17:07:13

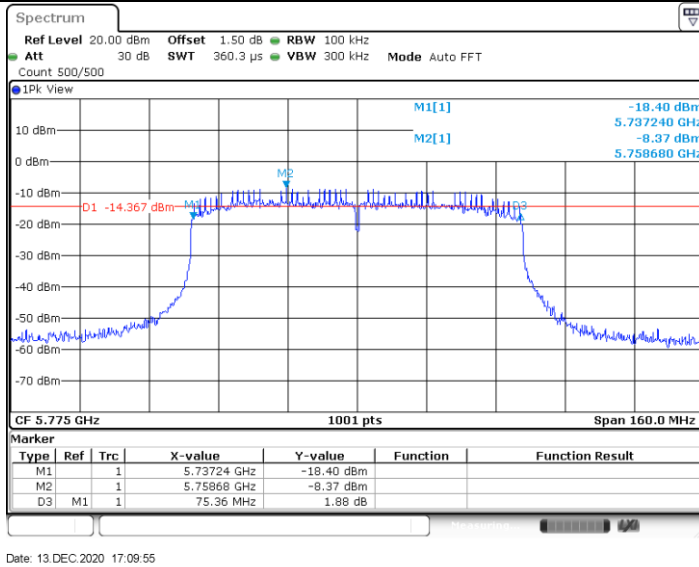
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



9.3 Maximum conducted output power

Test Method

According to C63.10, the EUT was placed on 0.8m height table, the RF output of EUT was connected to the test power meter by RF cable. The path loss was compensated to the results for each measurement.

(1) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied: The EUT is configured to transmit continuously or to transmit with a consistent duty cycle. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(2) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in II.B.

(3) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(4) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

IEEE 802.11a modulation Test Result

Band	Channel	Frequency (MHz)	Max Conducted Power (dBm)	Max Conducted Power Limit (dBm)
5.2G Band	Low	5180	12.3	24
	Middle	5200	12.3	24
	High	5240	12.3	24
5.2G Band	Low	5260	12.3	24
	Middle	5280	12.3	24
	High	5320	12.4	24
5.5G Band	Low	5500	13.8	24
	Middle	5580	14.5	24
	High	5700	14.9	24
	High	5720	14.4	24
5.8G Band	Low	5745	11.0	30
	Middle	5785	11.0	30
	High	5825	12.1	30

IEEE 802.11n HT20 modulation Test Result

Band	Channel	Frequency (MHz)	Max Conducted Power (dBm)	Max Conducted Power Limit (dBm)
5.2G Band	Low	5180	12.3	24
	Middle	5200	12.3	24
	High	5240	12.2	24
5.2G Band	Low	5260	12.2	24
	Middle	5280	12.3	24
	High	5320	12.4	24
5.5G Band	Low	5500	13.8	24
	Middle	5580	14.4	24
	High	5700	14.8	24
	High	5720	14.5	24
5.8G Band	Low	5745	10.5	30
	Middle	5785	10.1	30
	High	5825	11.0	30

IEEE 802.11n HT40 modulation Test Result

Band	Channel	Frequency (MHz)	Max Conducted Power (dBm)	Max Conducted Power Limit (dBm)
5.2G Band	Low	5190	12.2	24
	High	5230	12.2	24
5.2G Band	Low	5270	12.2	24
	High	5310	12.3	24
5.5G Band	Low	5510	13.8	24
	Middle	5550	14.2	24
	High	5670	14.8	24
	High	5710	14.4	24
5.8G Band	Low	5755	10.6	30
	High	5795	10.8	30

IEEE 802.11ac VHT20 modulation Test Result

Band	Channel	Frequency (MHz)	Max Conducted Power (dBm)	Max Conducted Power Limit (dBm)
5.2G Band	Low	5180	12.2	24
	Middle	5200	12.2	24
	High	5240	12.2	24
5.2G Band	Low	5260	12.2	24
	Middle	5280	12.2	24
	High	5320	12.3	24
5.5G Band	Low	5500	13.8	24
	Middle	5580	14.4	24
	High	5700	14.8	24
	High	5720	14.5	24
5.8G Band	Low	5745	10.5	30
	Middle	5785	10.0	30
	High	5825	11.0	30



IEEE 802.11ac VHT40 modulation Test Result

Band	Channel	Frequency (MHz)	Max Conducted Power (dBm)	Max Conducted Power Limit (dBm)
5.2G Band	Low	5190	12.2	24
	High	5230	12.2	24
5.2G Band	Low	5270	12.2	24
	High	5310	12.3	24
5.5G Band	Low	5510	13.8	24
	Middle	5550	14.2	24
	High	5670	14.7	24
	High	5710	14.3	24
5.8G Band	Low	5755	10.1	30
	High	5795	10.0	30

IEEE 802.11ac VHT80 modulation Test Result

Band	Channel	Frequency (MHz)	Max Conducted Power (dBm)	Max Conducted Power Limit (dBm)
5.2G Band	Low	5210	12.2	24
5.2G Band	High	5290	12.2	24
5.5G Band	Low	5530	14.0	24
	High	5690	14.4	24
5.8G Band	High	5775	10.1	30

9.4 Maximum power spectral density

Test Method

According to C63.10 The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the Masterpropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and Masterply it up to, but not including, the step labeled, "Compute power..." (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
 2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
 3. Make the following adjustments to the peak value of the spectrum, if Masterlicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
 4. The result is the Maximum PSD over 1 MHz reference bandwidth.
 5. For devices operating in the bands 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz, the preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725–5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures Masterply:
 - a) Set $RBW \geq 1/T$, where T is defined in II.B.I.a).
 - b) Set $VBW \geq 3 RBW$.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log(1 \text{ MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
- Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the II.F.5.c) and II.F.5.d), since $RBW=100 \text{ kHz}$ is available on nearly all spectrum analyzers.

Limit:

The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band in any 1 megahertz band.

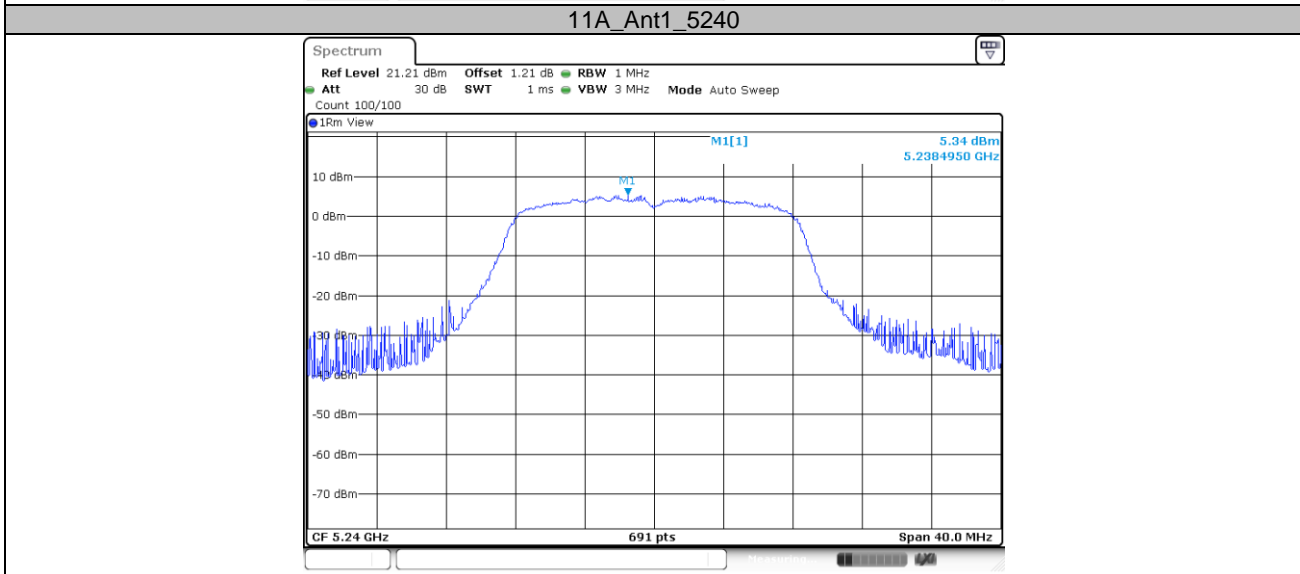
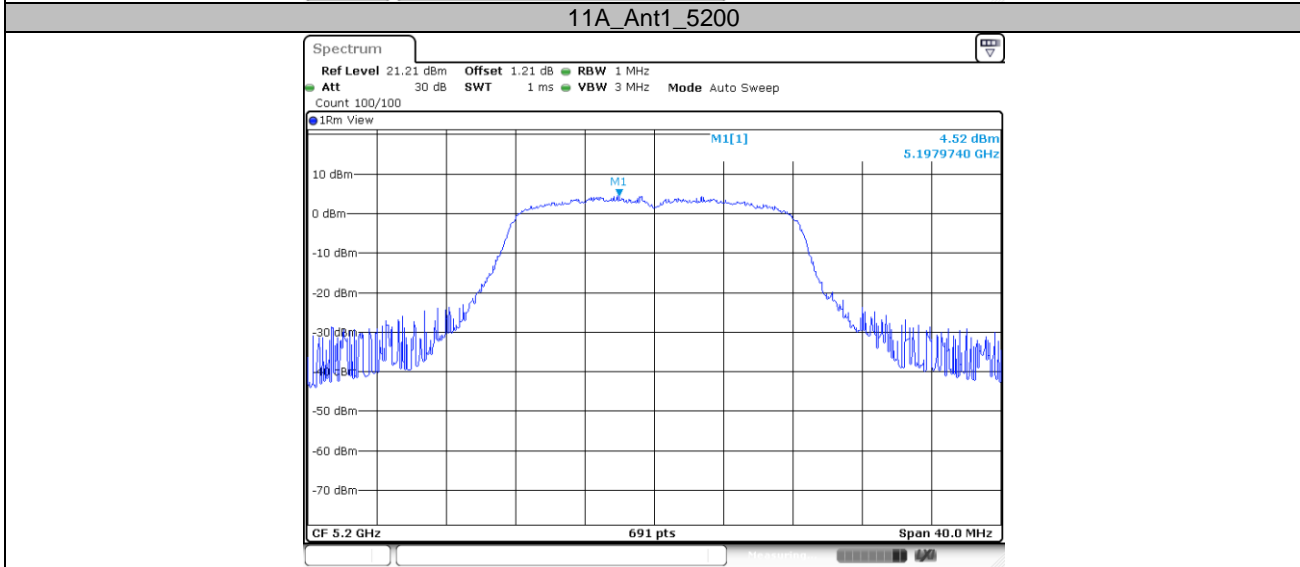
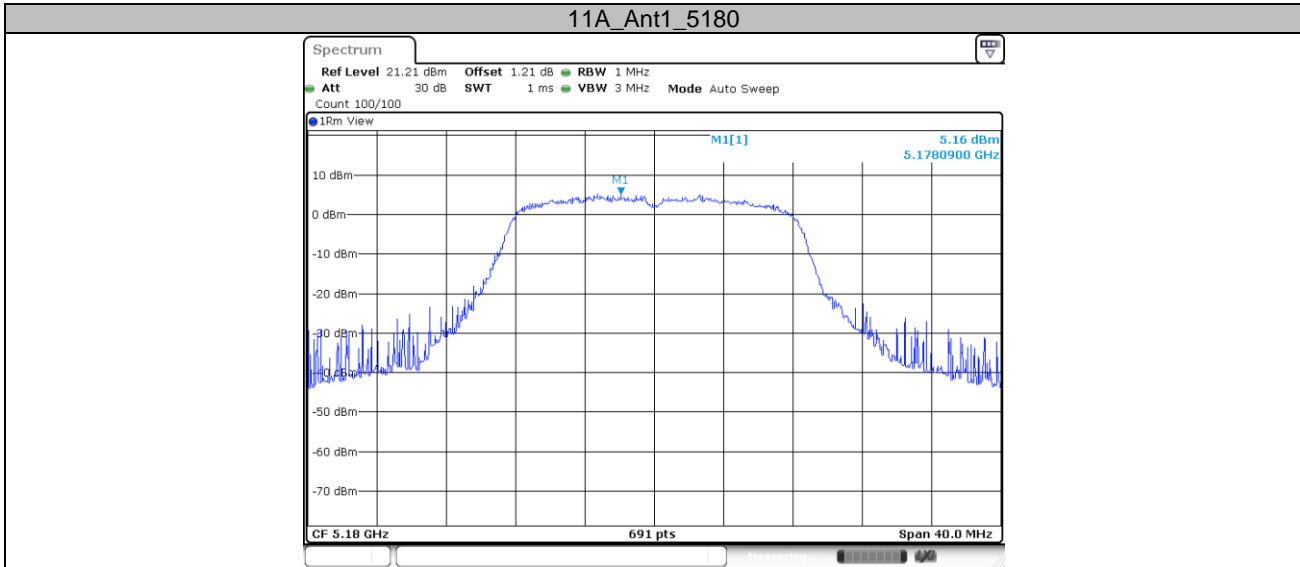
For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

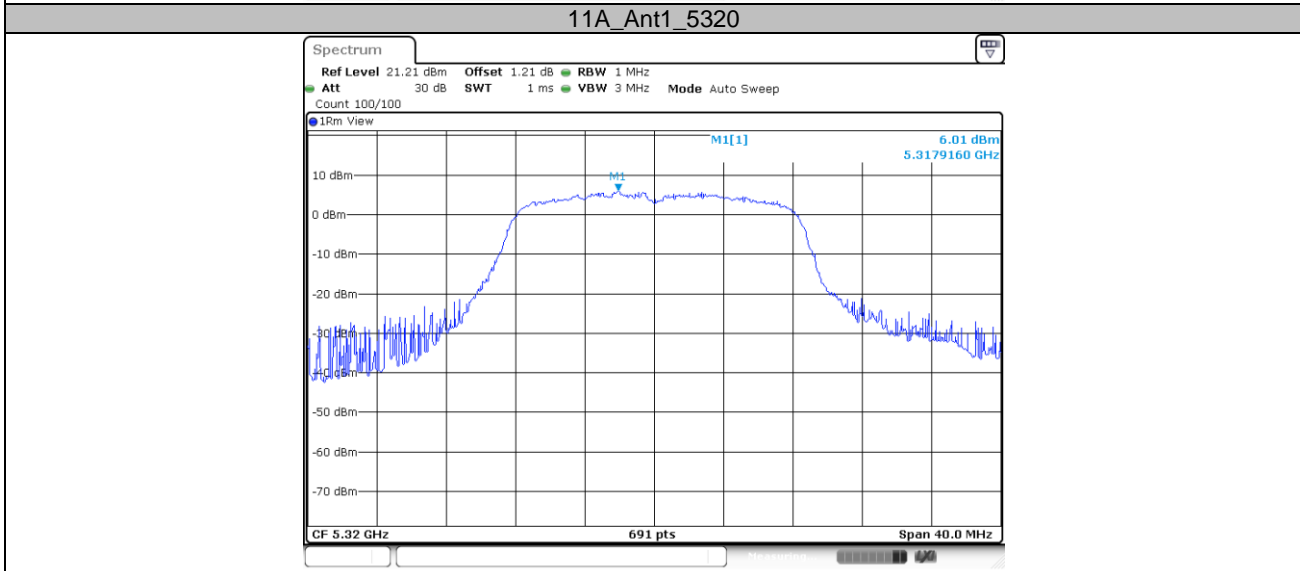
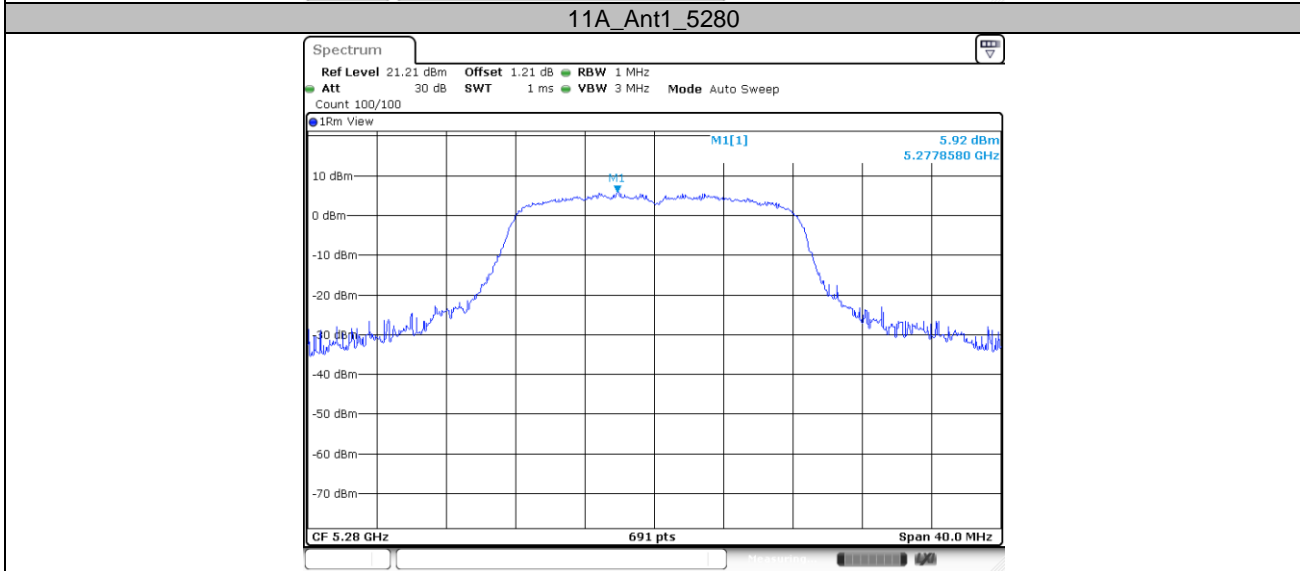
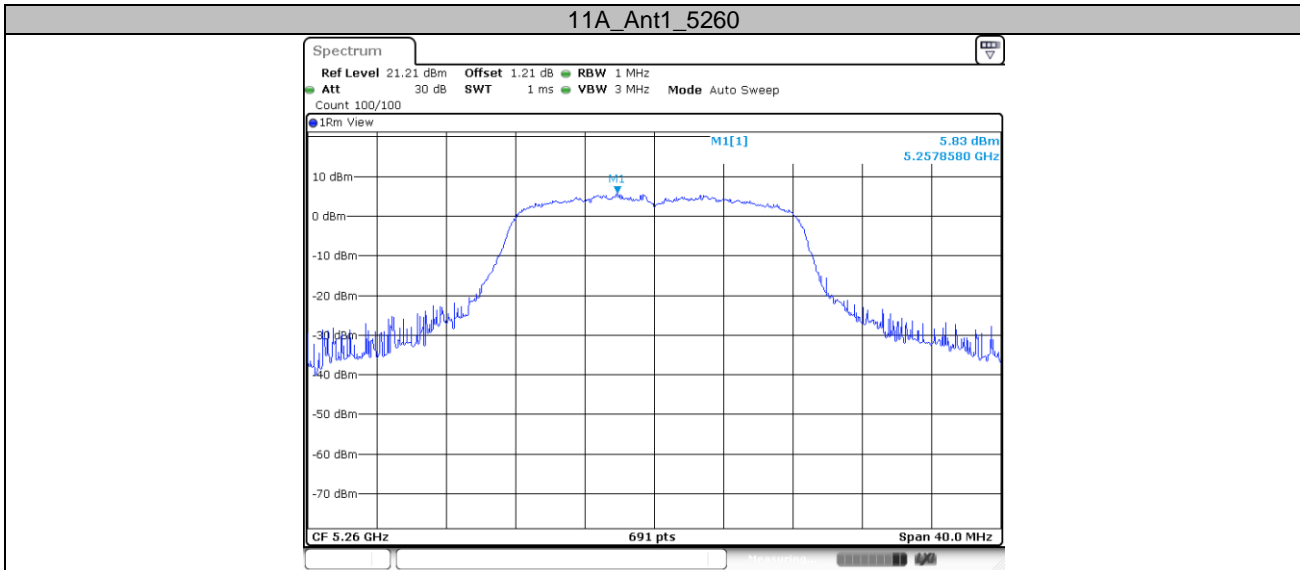
Test Result

TestMode	Antenna	Channel(MHz)	Result(dBm/MHz)	Limit(dBm/MHz)	Verdict		
11A	Ant1	5180	5.16	<=11	PASS		
		5200	4.52	<=11	PASS		
		5240	5.34	<=11	PASS		
		5260	5.83	<=11	PASS		
		5280	5.92	<=11	PASS		
		5320	6.01	<=11	PASS		
		5500	8.34	<=11	PASS		
		5580	7.67	<=11	PASS		
		5700	7.44	<=11	PASS		
		5720_UNII-2C	7.45	<=11	PASS		
		5720_UNII-3	6.08	<=11	PASS		
		5745	6.57	<=30	PASS		
		5785	5.8	<=30	PASS		
		5825	5.74	<=30	PASS		
11N20SISO	Ant1	5180	4.95	<=11	PASS		
		5200	4.56	<=11	PASS		
		5240	4.88	<=11	PASS		
		5260	5.5	<=11	PASS		
		5280	5.79	<=11	PASS		
		5320	4.66	<=11	PASS		
		5500	5.78	<=11	PASS		
		5580	5.58	<=11	PASS		
		5700	5.2	<=11	PASS		
		5720_UNII-2C	5.18	<=11	PASS		
		5720_UNII-3	3.65	<=11	PASS		
		5745	3.63	<=30	PASS		
		5785	2.42	<=30	PASS		
		5825	2.48	<=30	PASS		
11N40SISO	Ant1	5190	2.14	<=11	PASS		
		5230	2.56	<=11	PASS		
		5270	2.64	<=11	PASS		
		5310	1.91	<=11	PASS		
		5510	3.43	<=11	PASS		
		5550	3.3	<=11	PASS		
		5670	3.67	<=11	PASS		
		5710_UNII-2C	3.2	<=11	PASS		
		5710_UNII-3	-0.16	<=11	PASS		
		5755	1.56	<=30	PASS		
		5795	1.12	<=30	PASS		
		11AC20SISO	Ant1	5180	3.97	<=11	PASS
				5200	3.58	<=11	PASS
				5240	4.06	<=11	PASS
5260	4.18			<=11	PASS		
5280	3.97			<=11	PASS		
5320	4.05			<=11	PASS		
5500	5			<=11	PASS		
5580	5.32			<=11	PASS		
5700	4.87			<=11	PASS		
5720_UNII-2C	4.84			<=11	PASS		
5720_UNII-3	3.38			<=11	PASS		
5745	3.42			<=30	PASS		

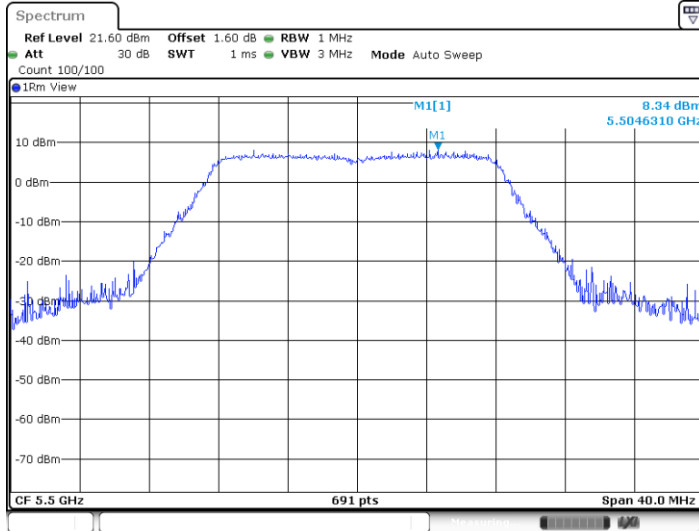


		5785	2.79	<=30	PASS
		5825	3.24	<=30	PASS
11AC40SISO	Ant1	5190	2.86	<=10	PASS
		5230	2.91	<=11	PASS
		5270	2.86	<=11	PASS
		5310	2.86	<=11	PASS
		5510	4.15	<=11	PASS
		5550	4.15	<=11	PASS
		5670	3.77	<=11	PASS
		5710_UNII-2C	3.91	<=11	PASS
		5710_UNII-3	-0.97	<=11	PASS
		5755	2.05	<=30	PASS
		5795	1.48	<=30	PASS
		11AC80SISO	Ant1	5210	-0.82
5290	2.14			<=11	PASS
5530	0.4			<=11	PASS
5610	0.36			<=11	PASS
5690_UNII-2C	0.76			<=11	PASS
5690_UNII-3	-6.56			<=11	PASS
5775	-1.99			<=30	PASS

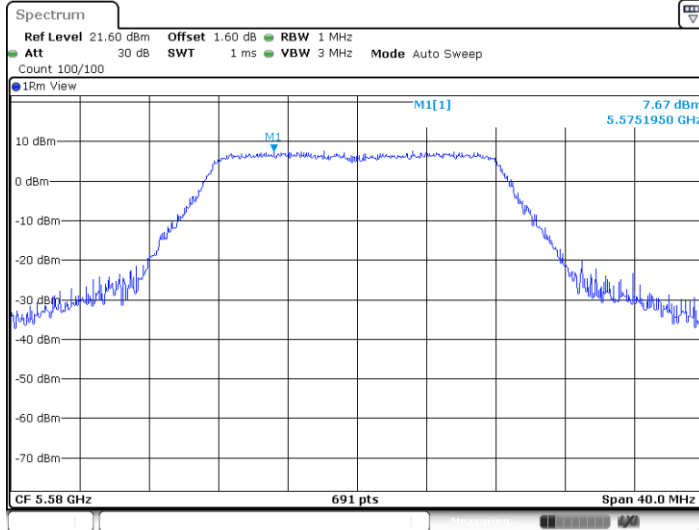




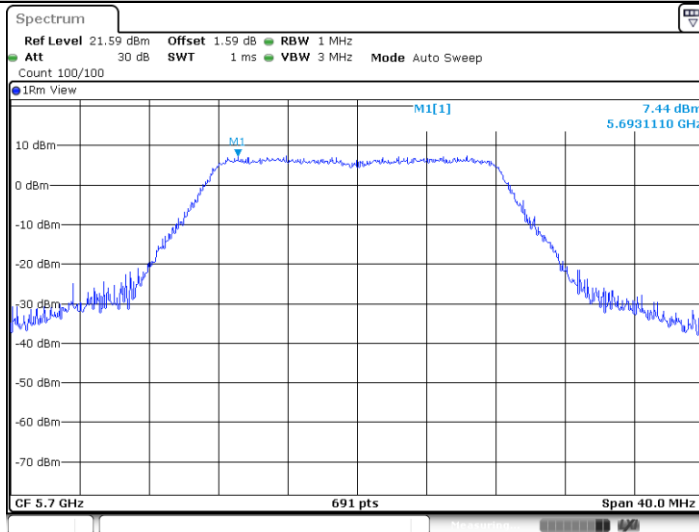
11A_Ant1_5500



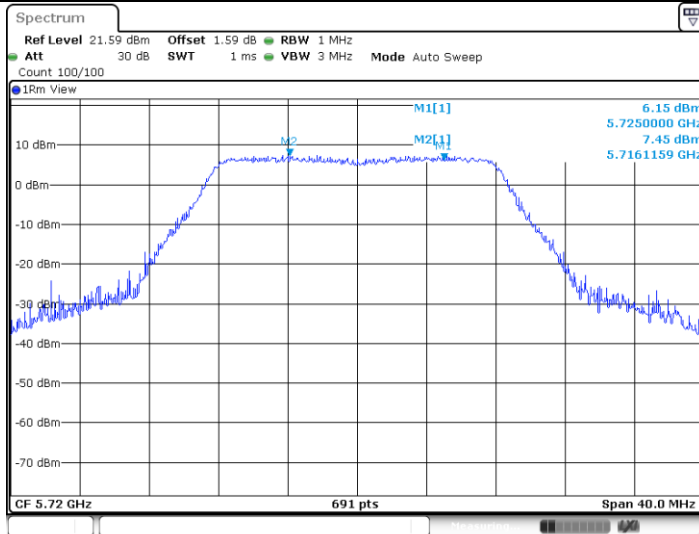
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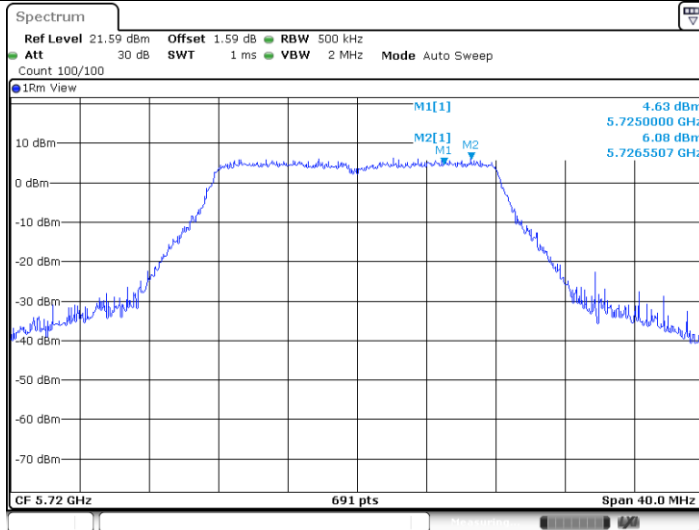
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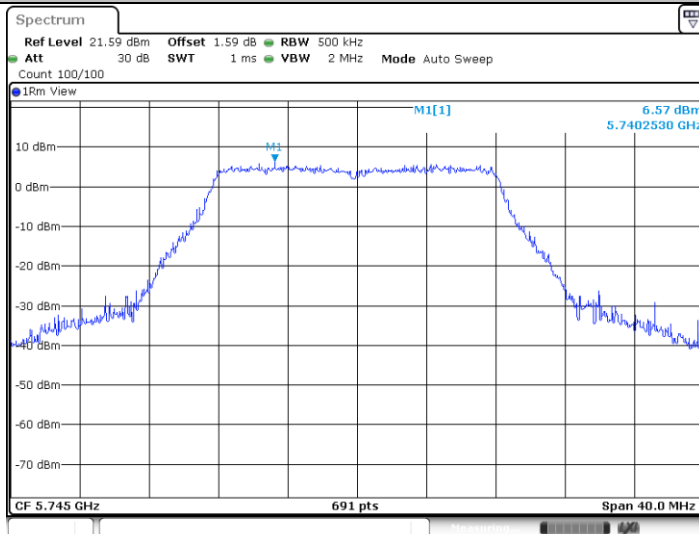
11A_Ant1_5720_UNII-2C

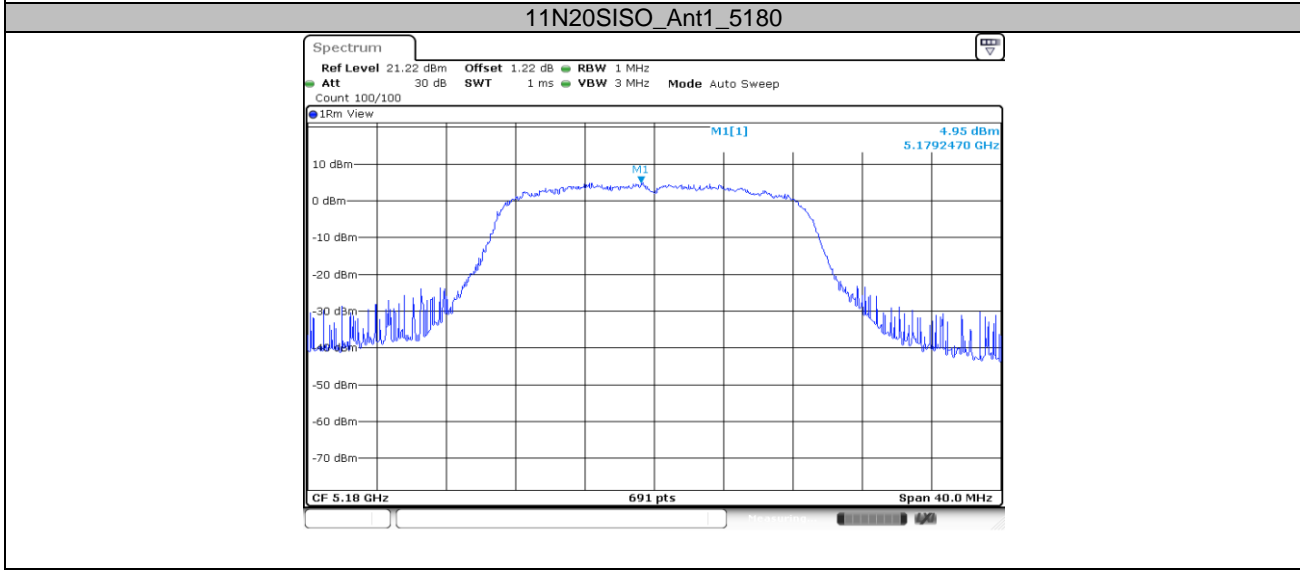
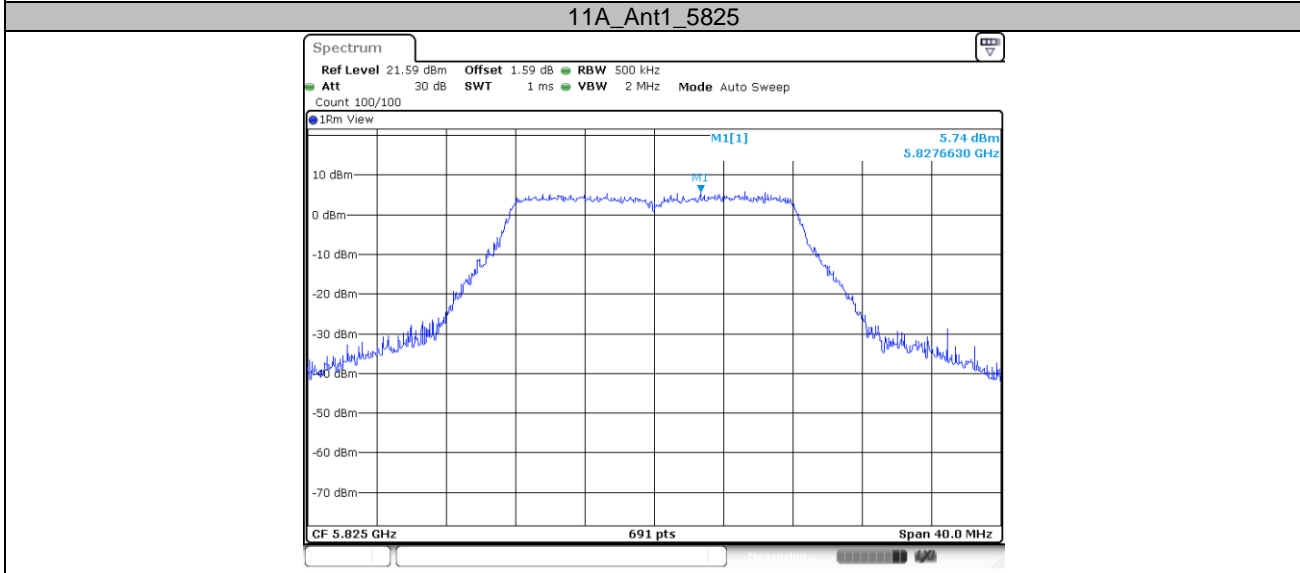
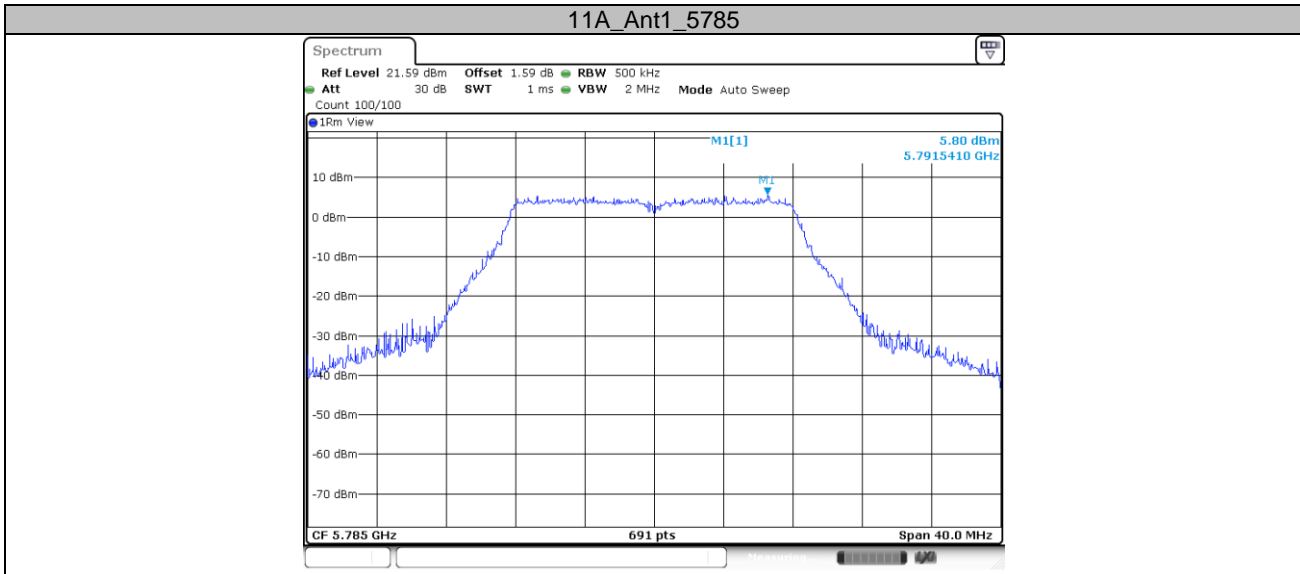


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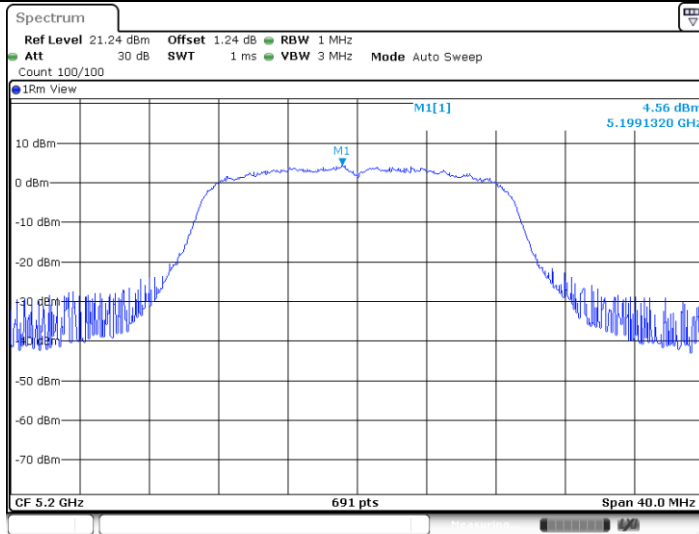


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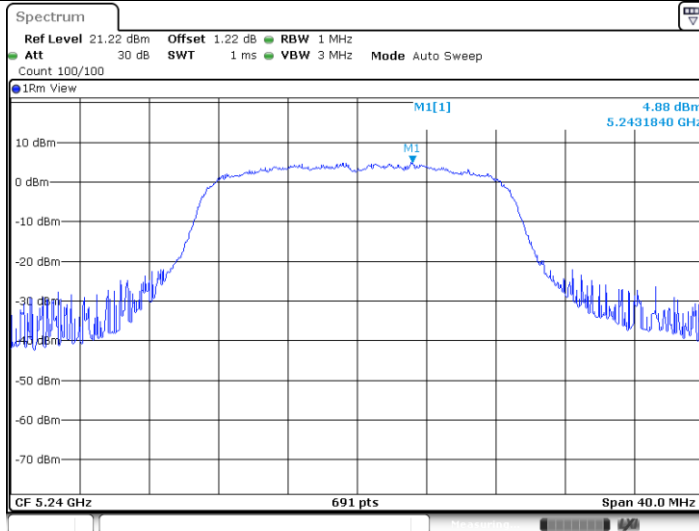




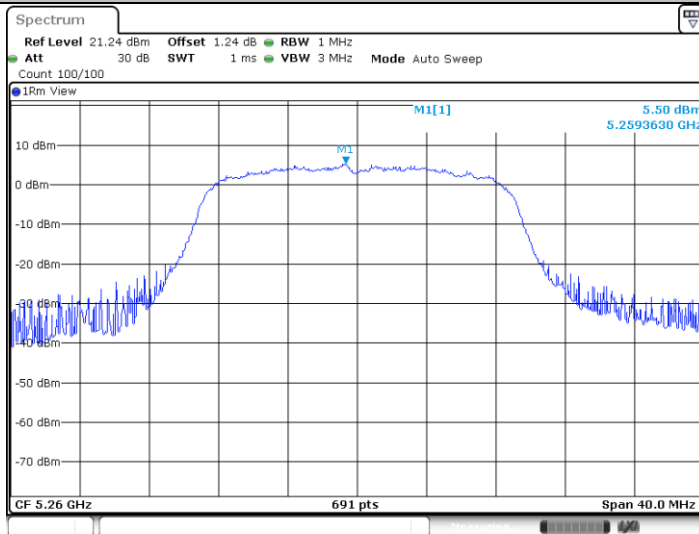
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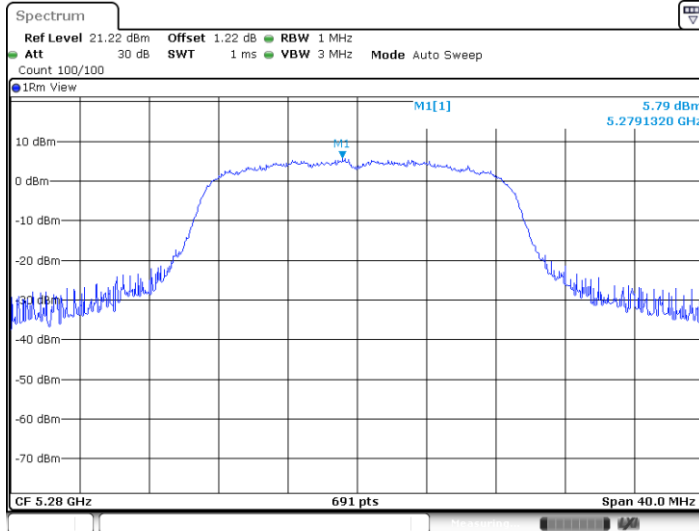
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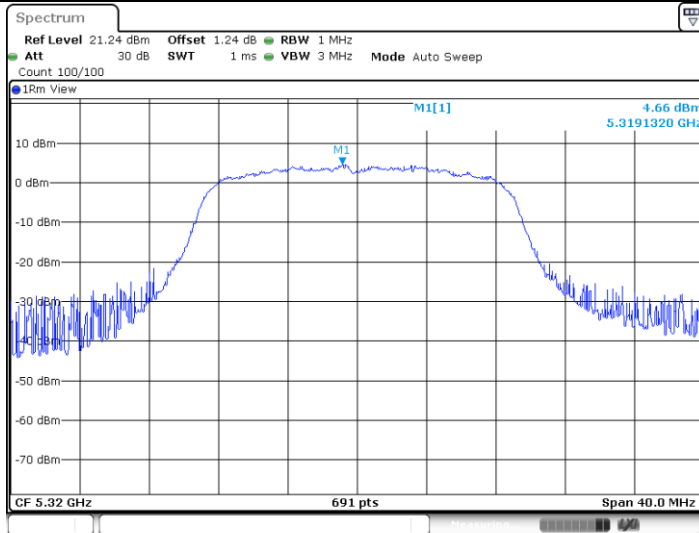
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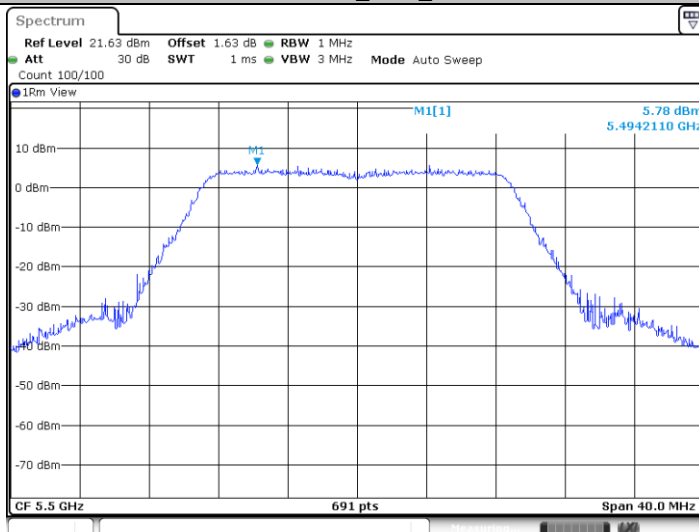
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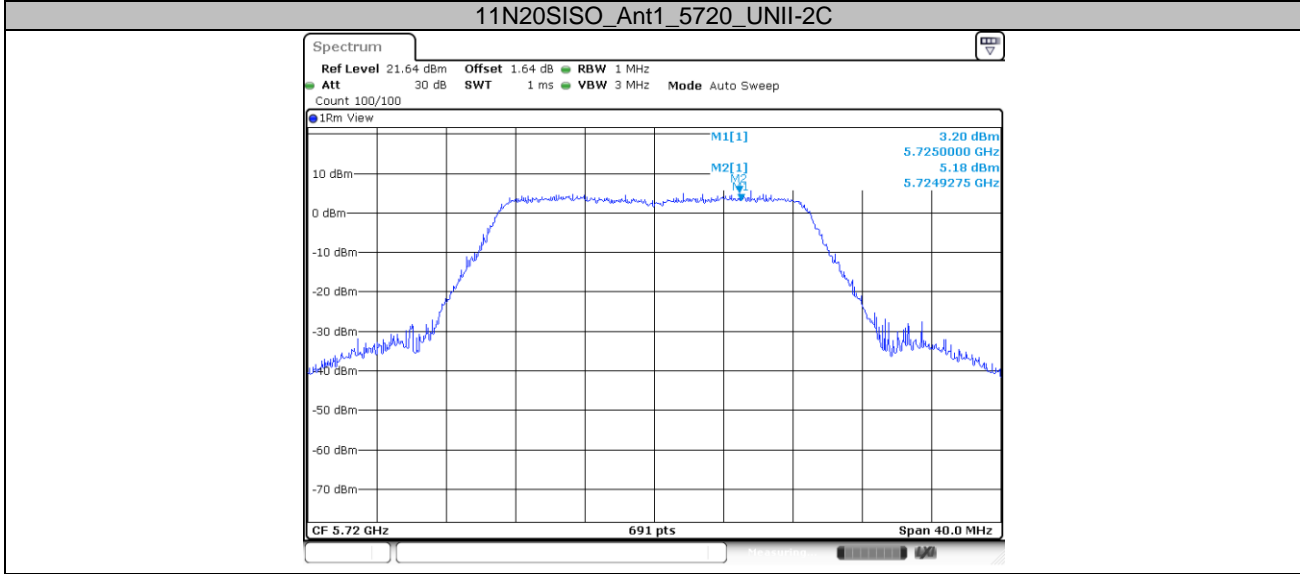
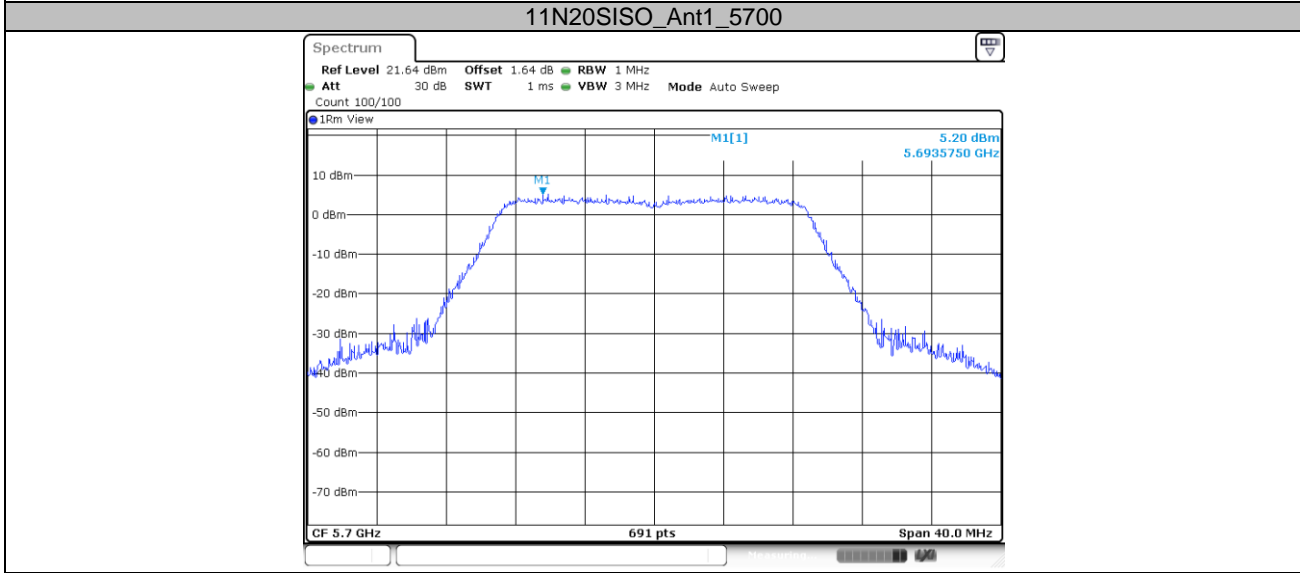
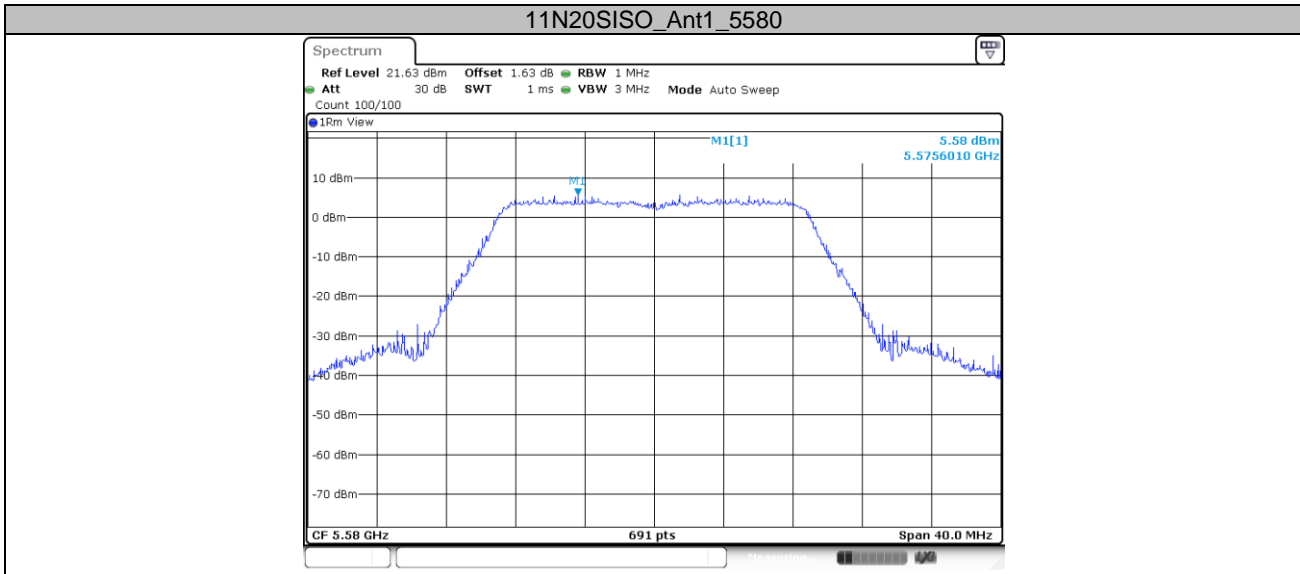


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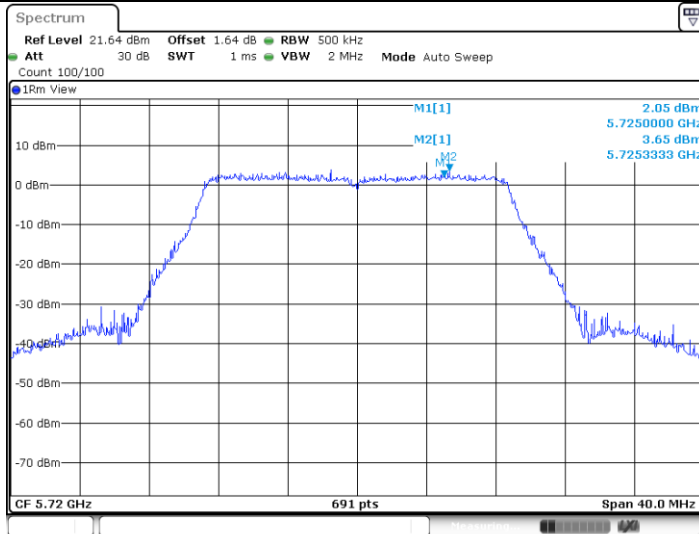


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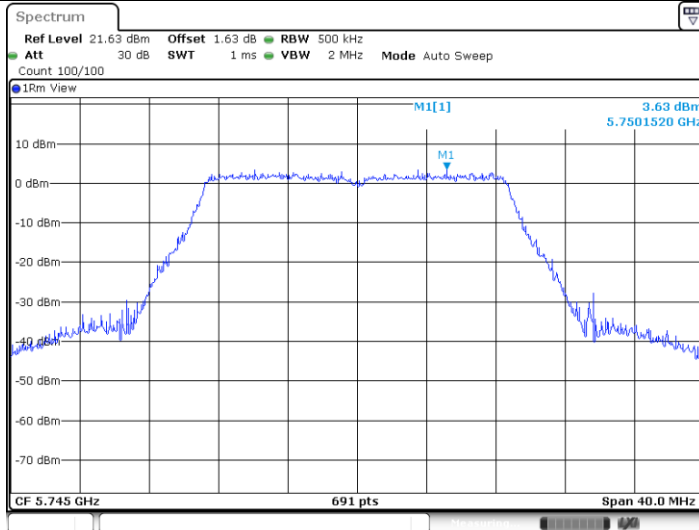




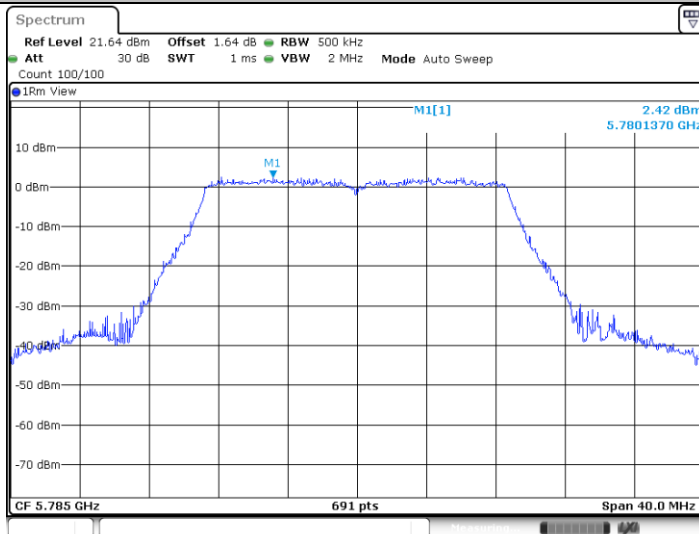
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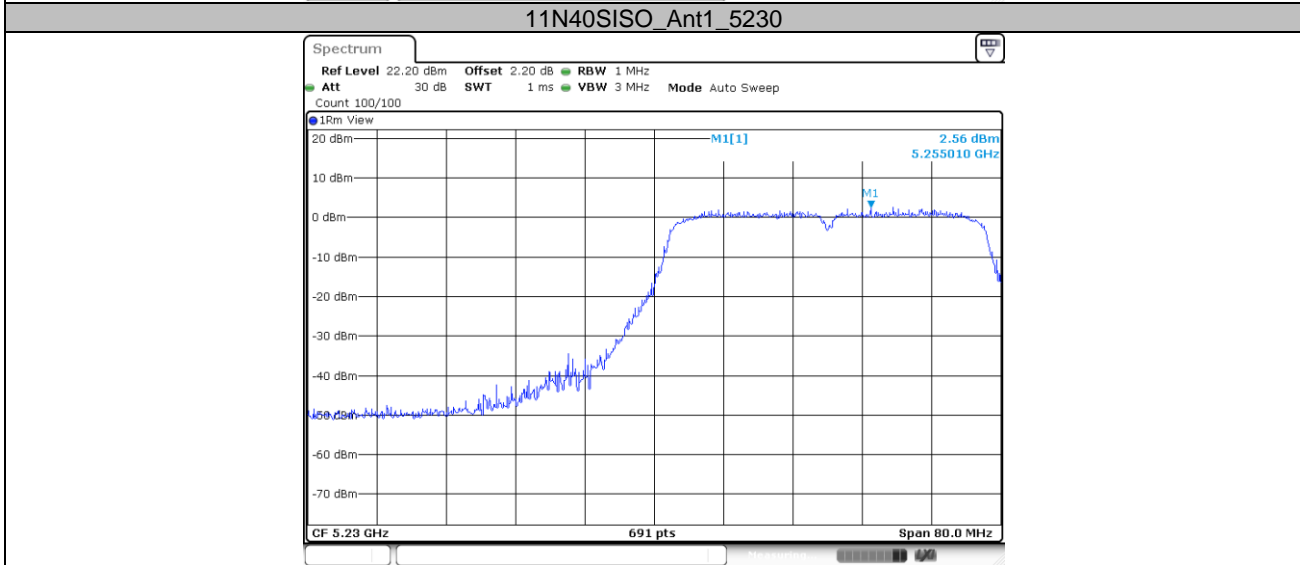
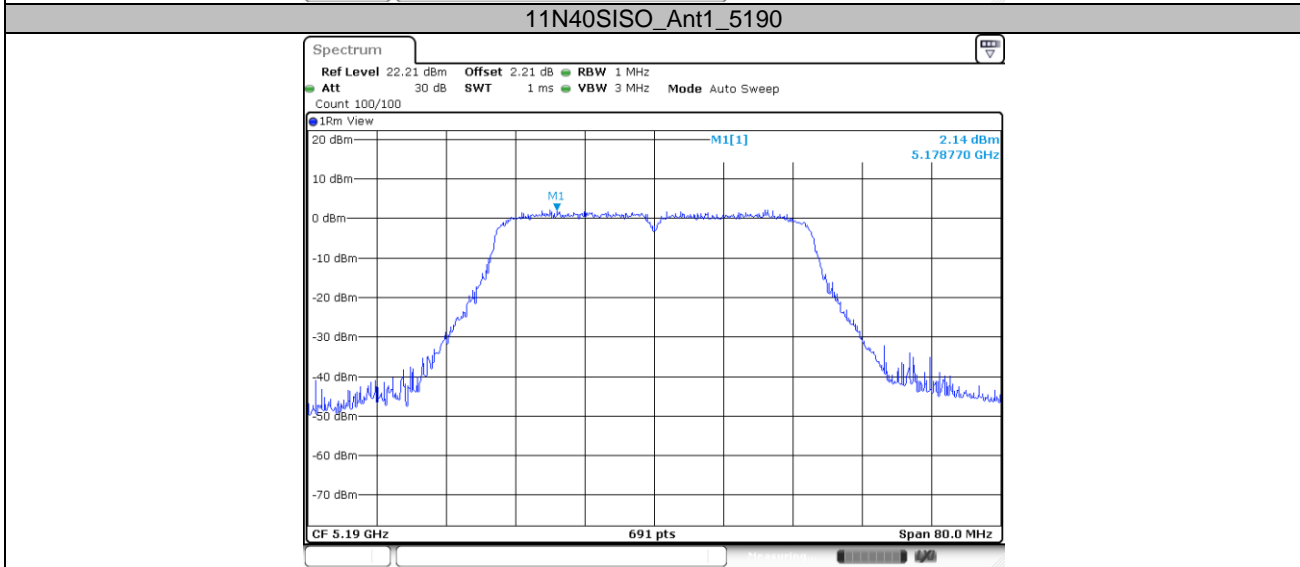
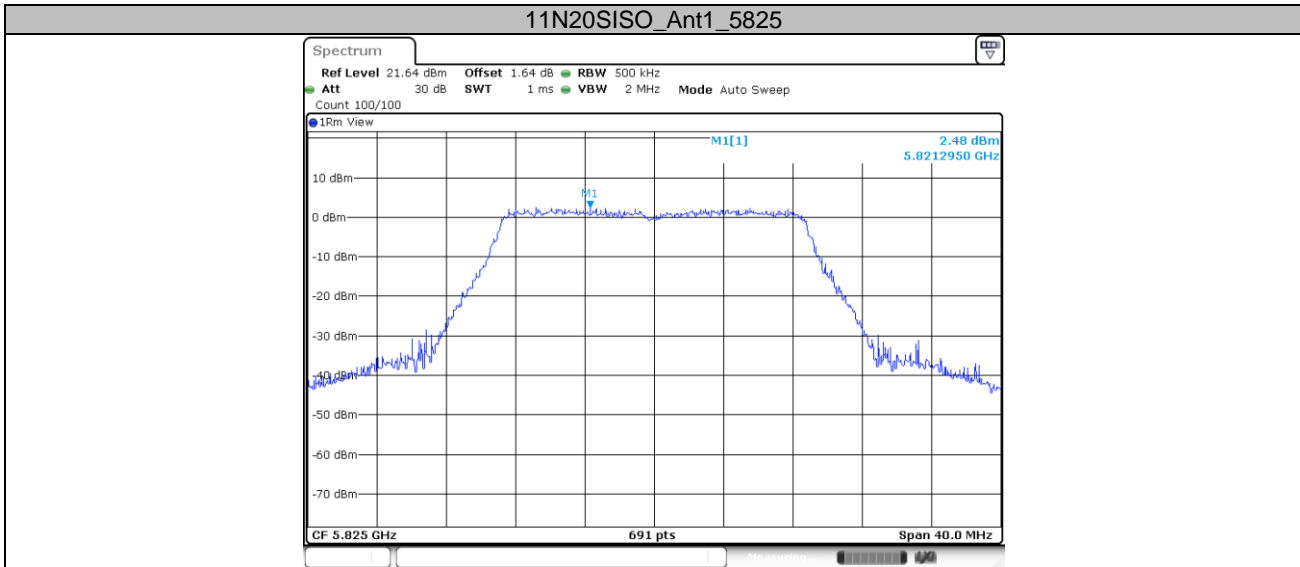


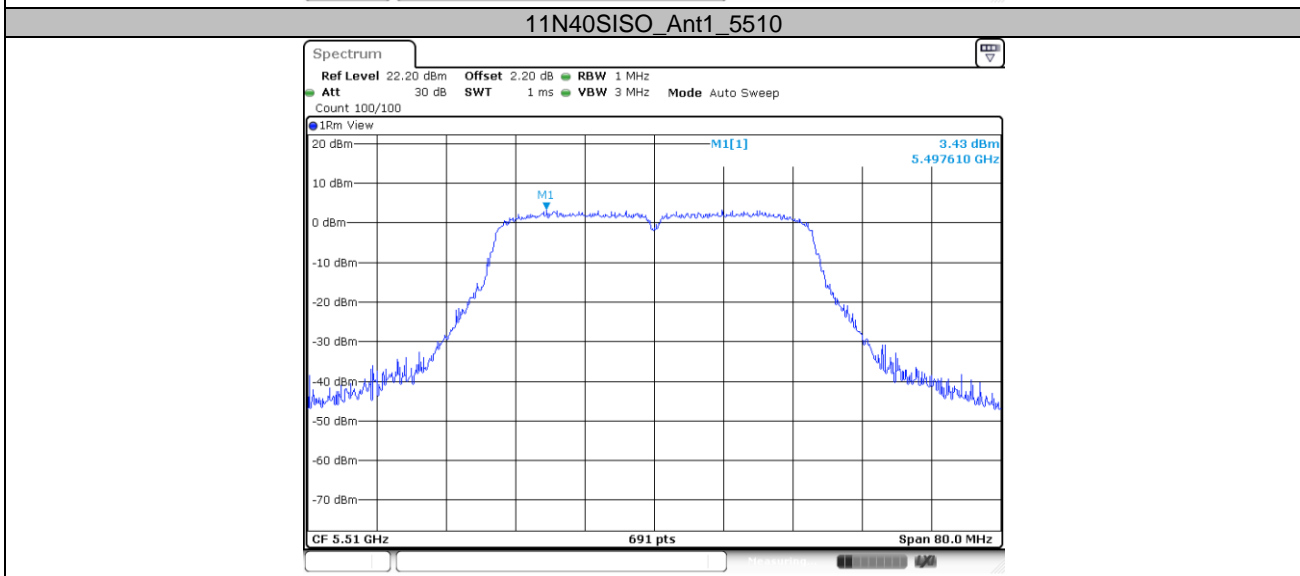
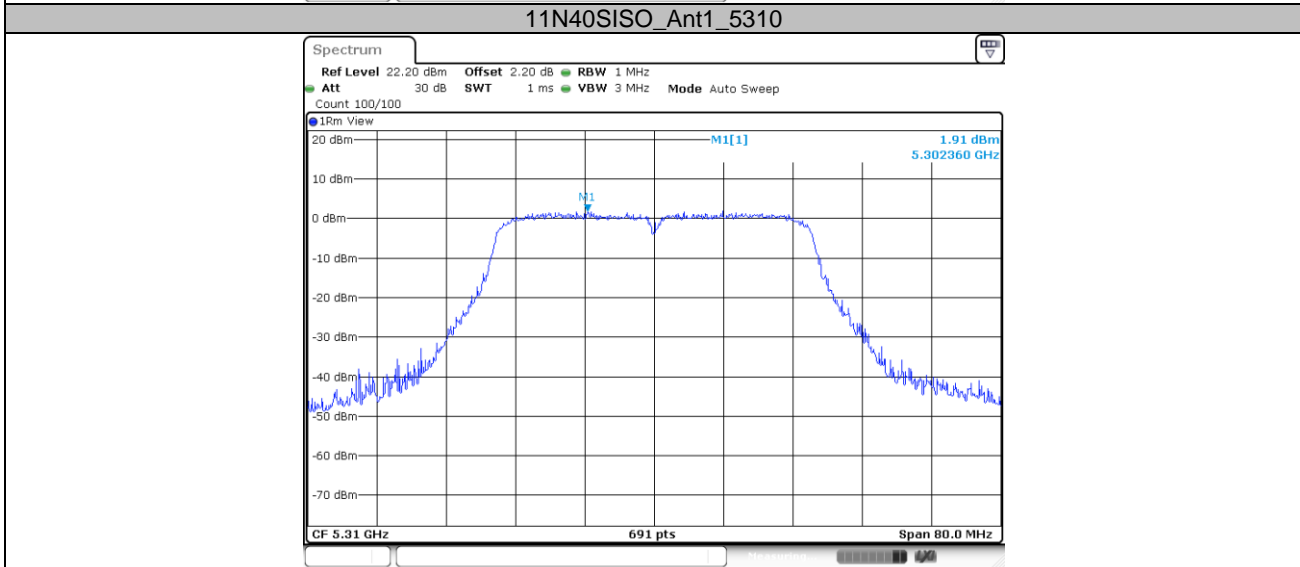
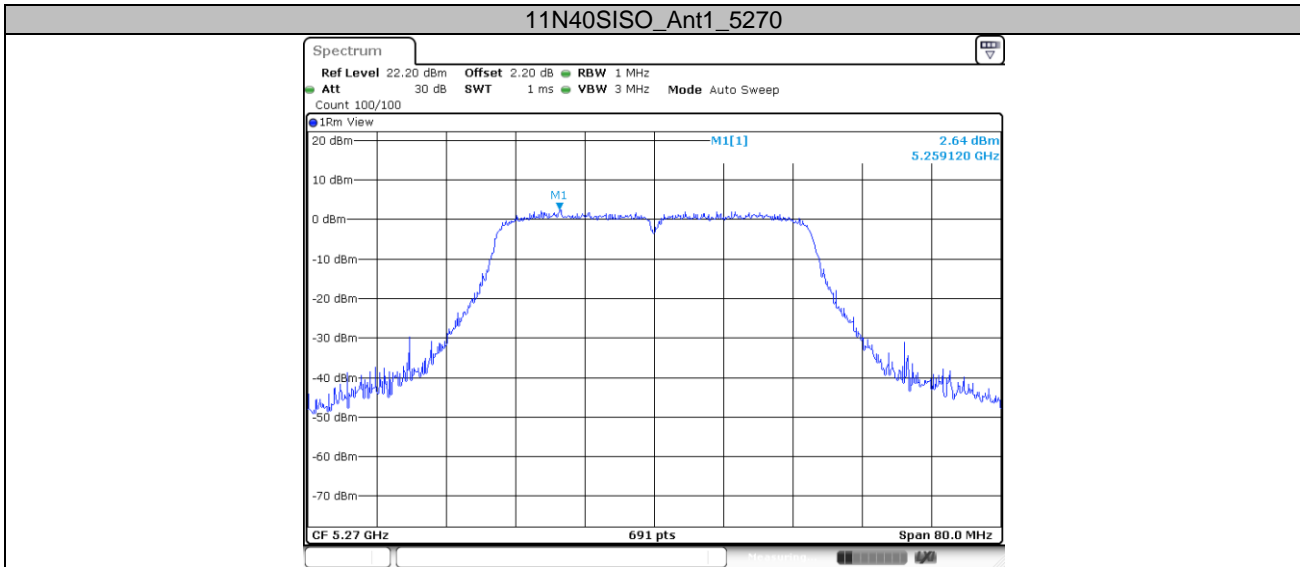
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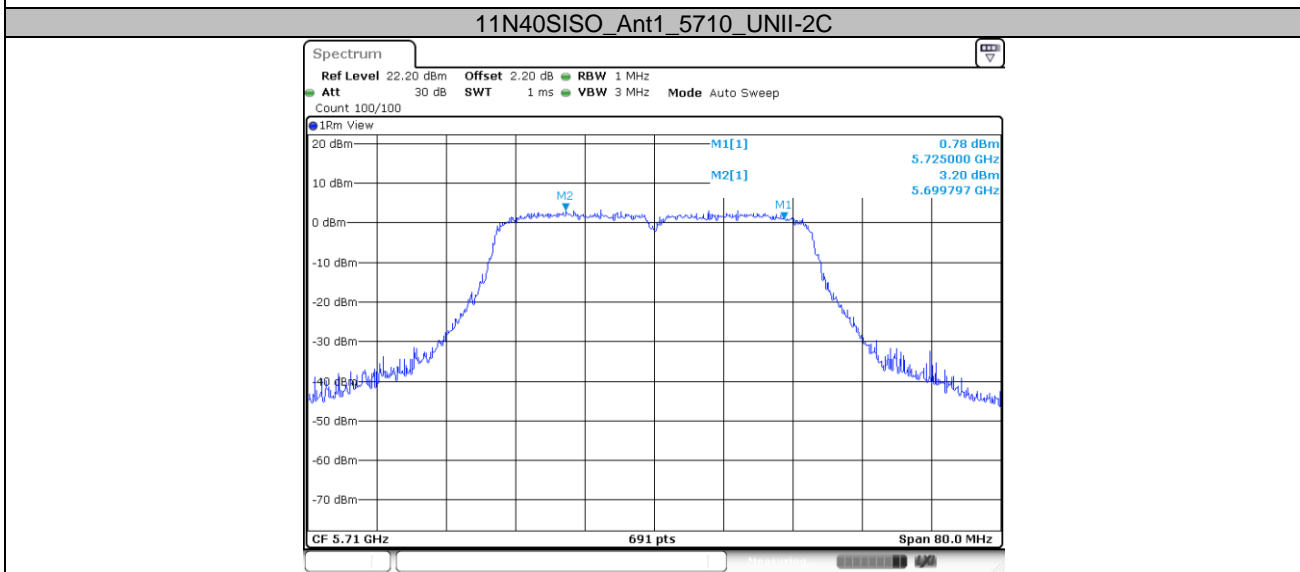
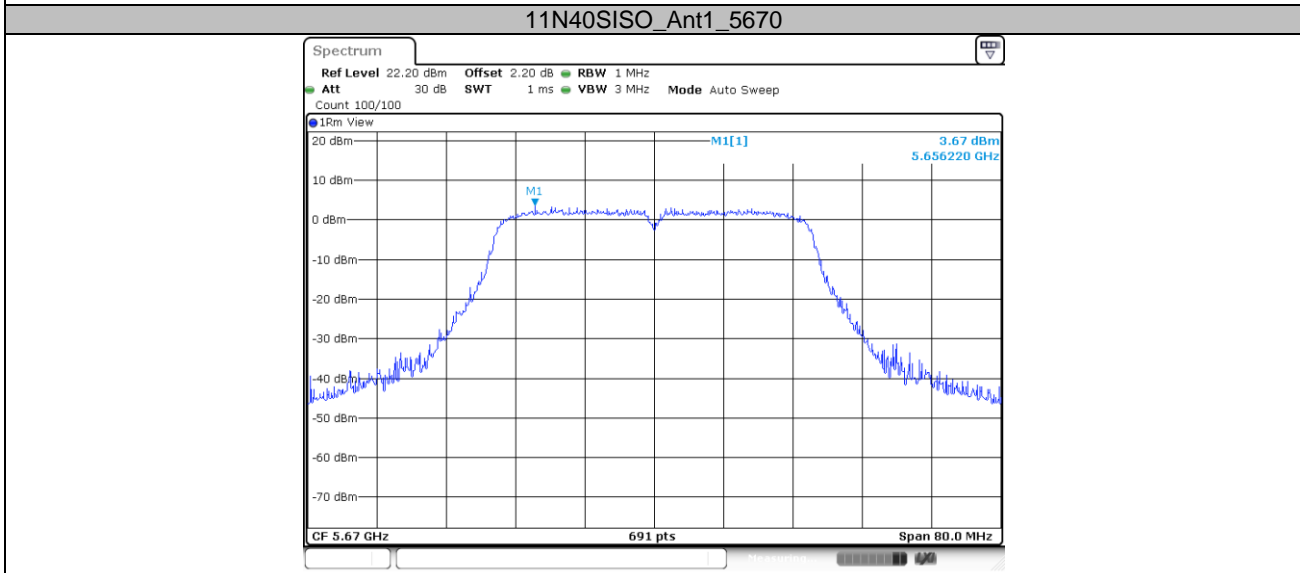
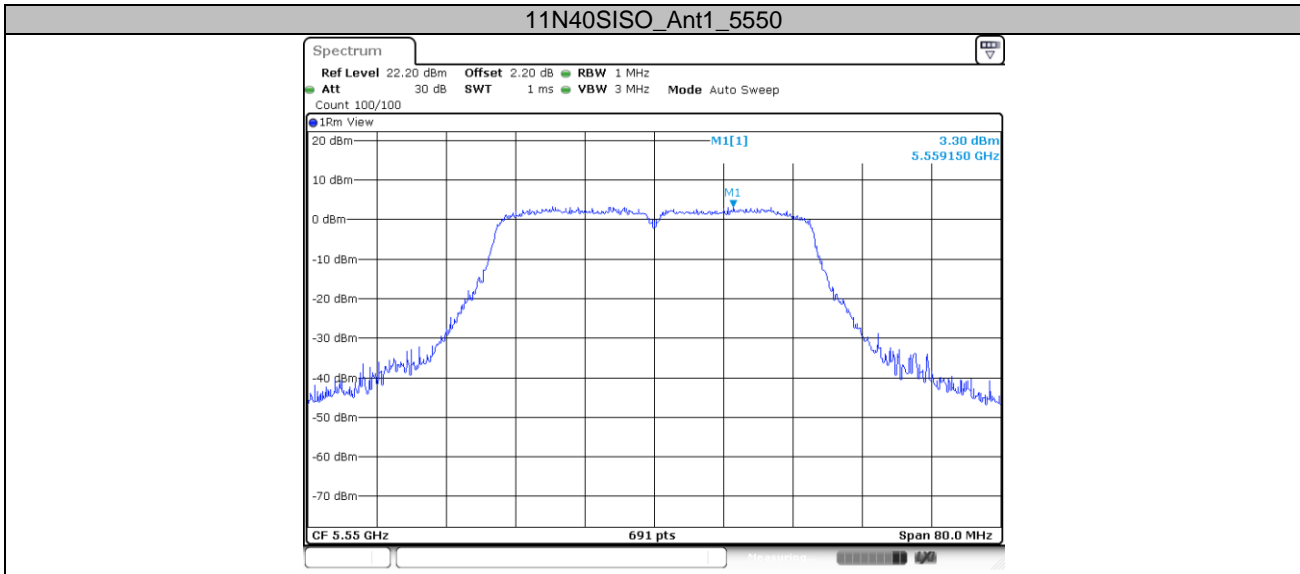


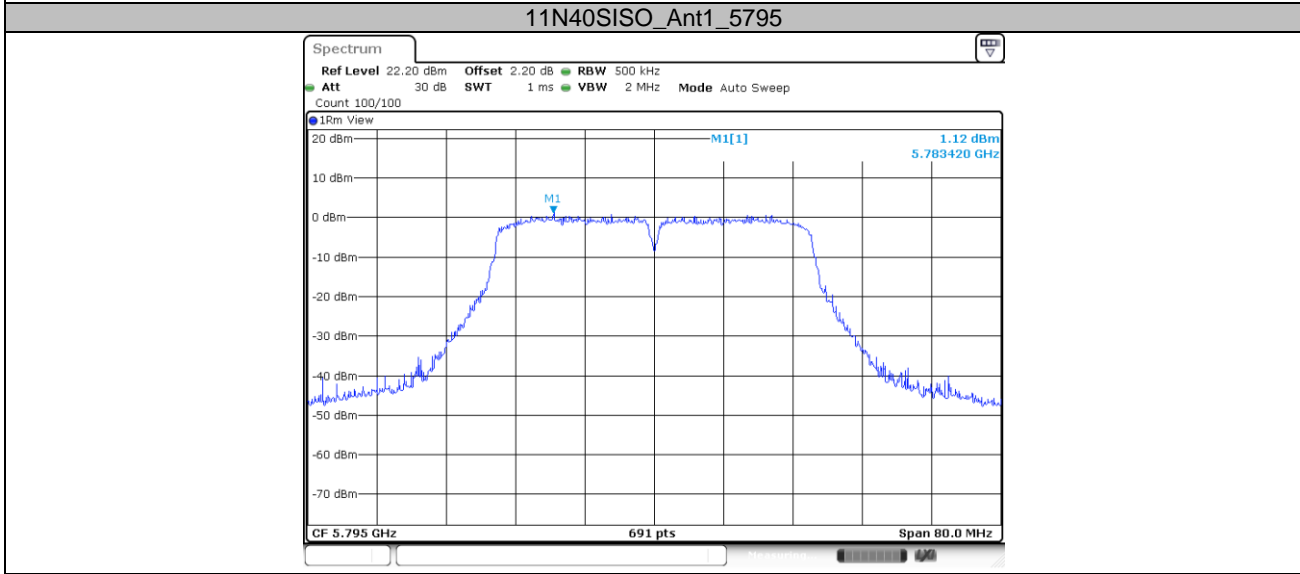
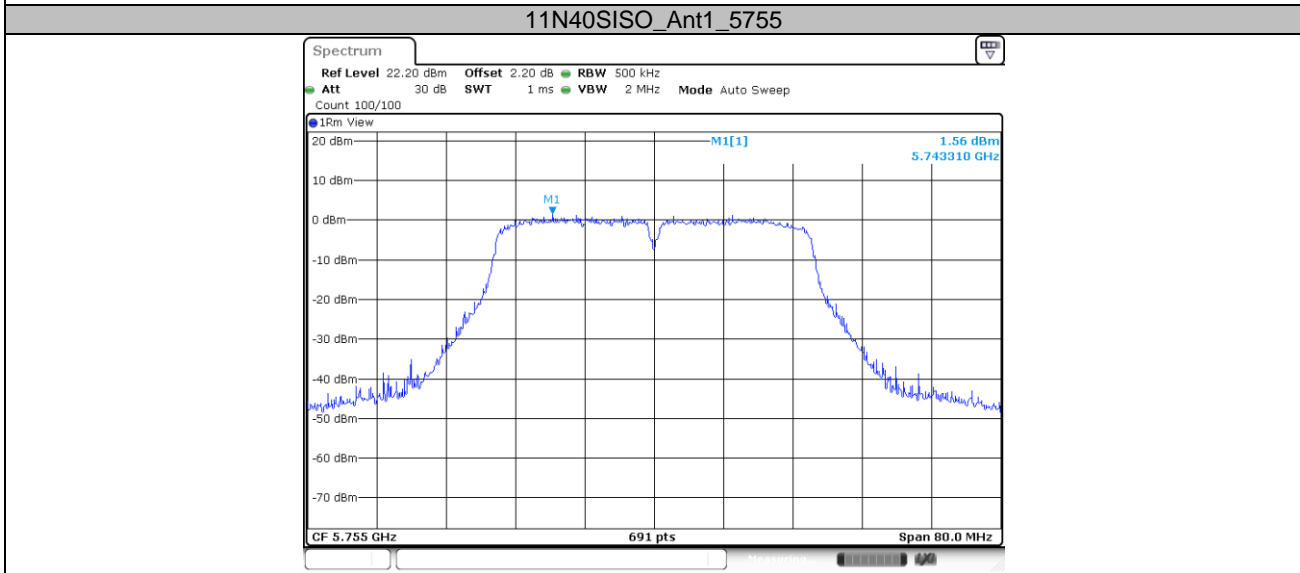
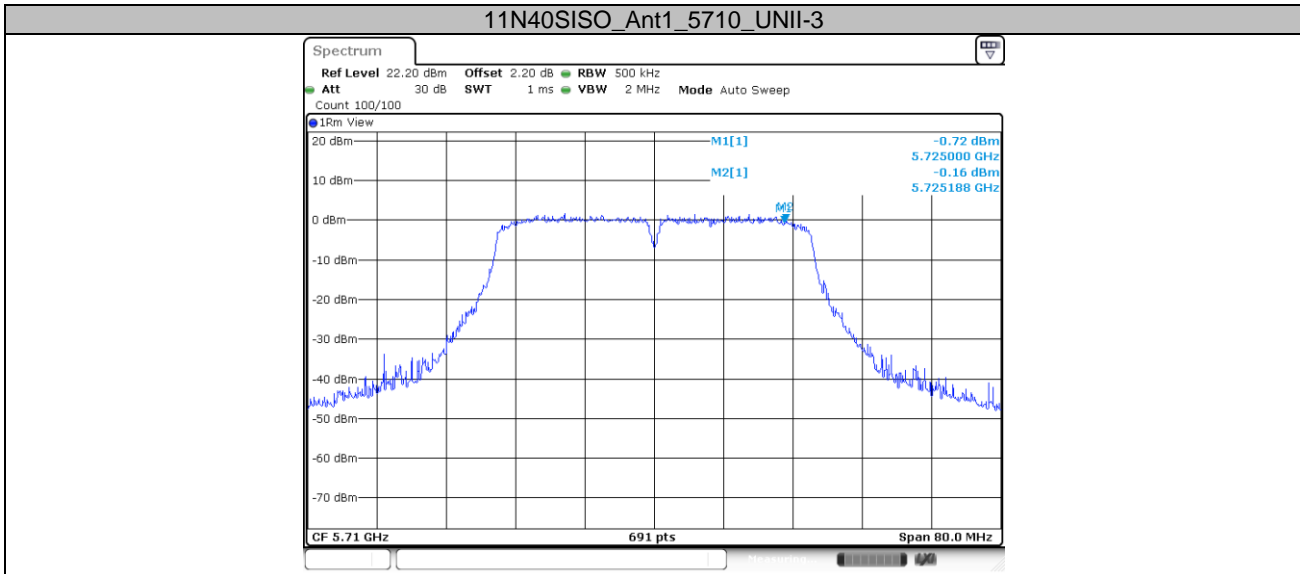
11N20SISO_Ant1_5785

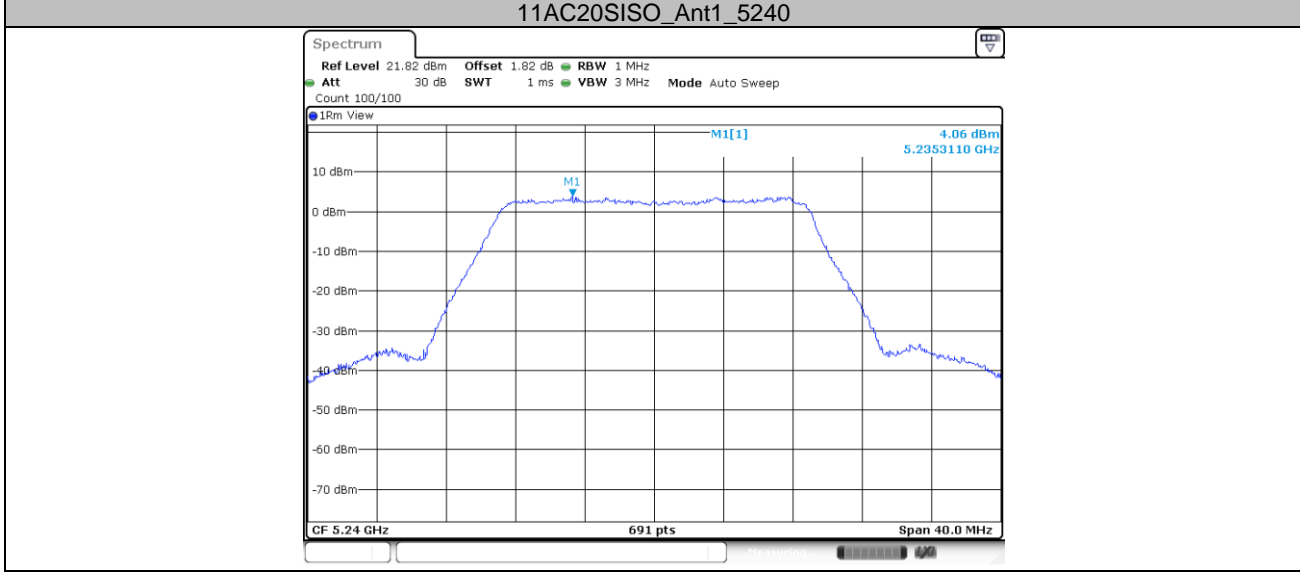
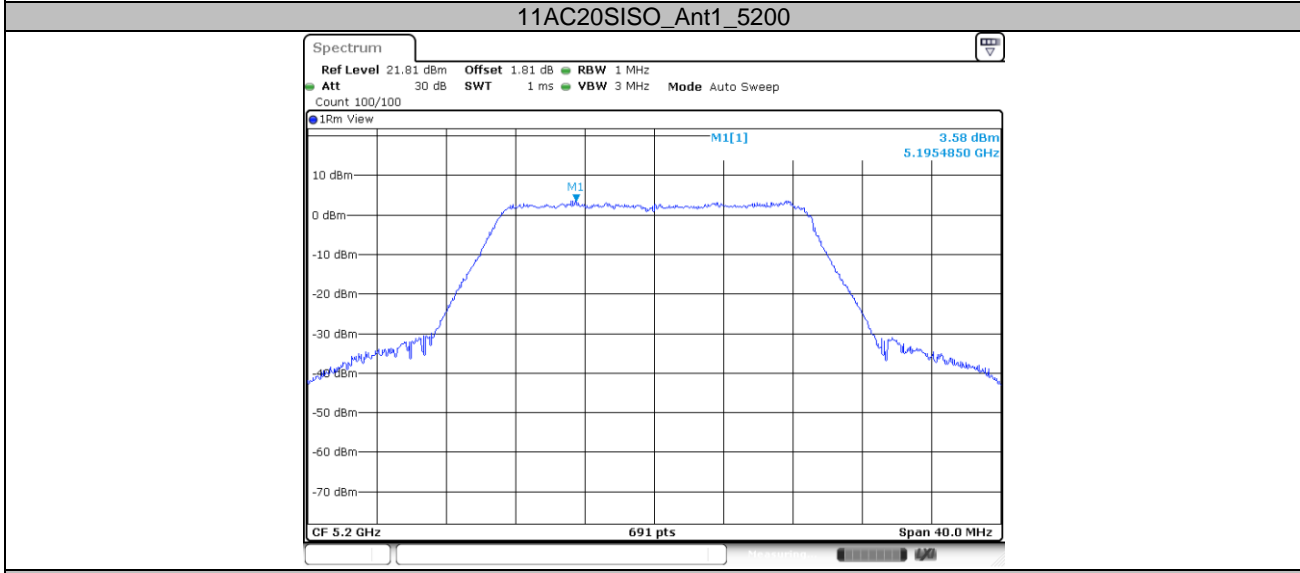
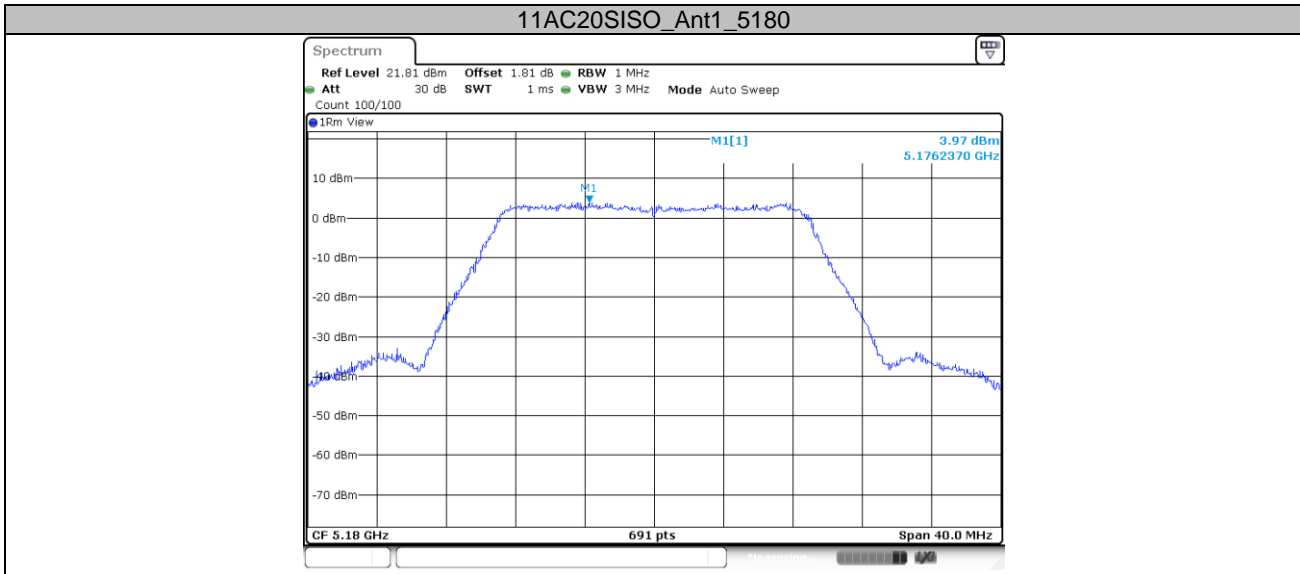


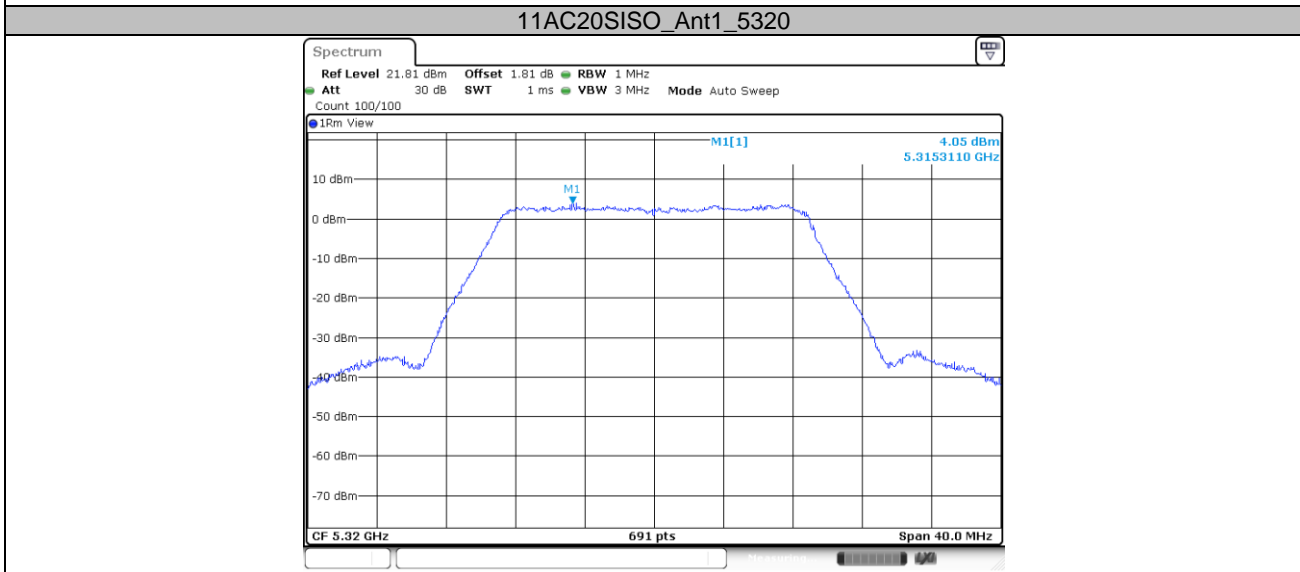
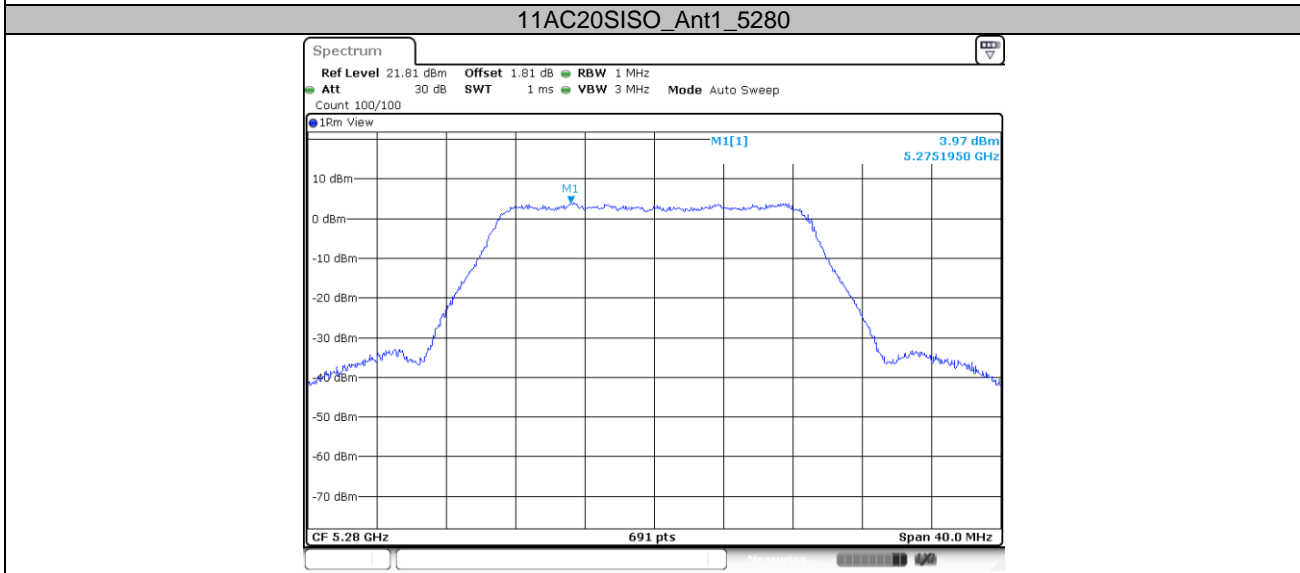
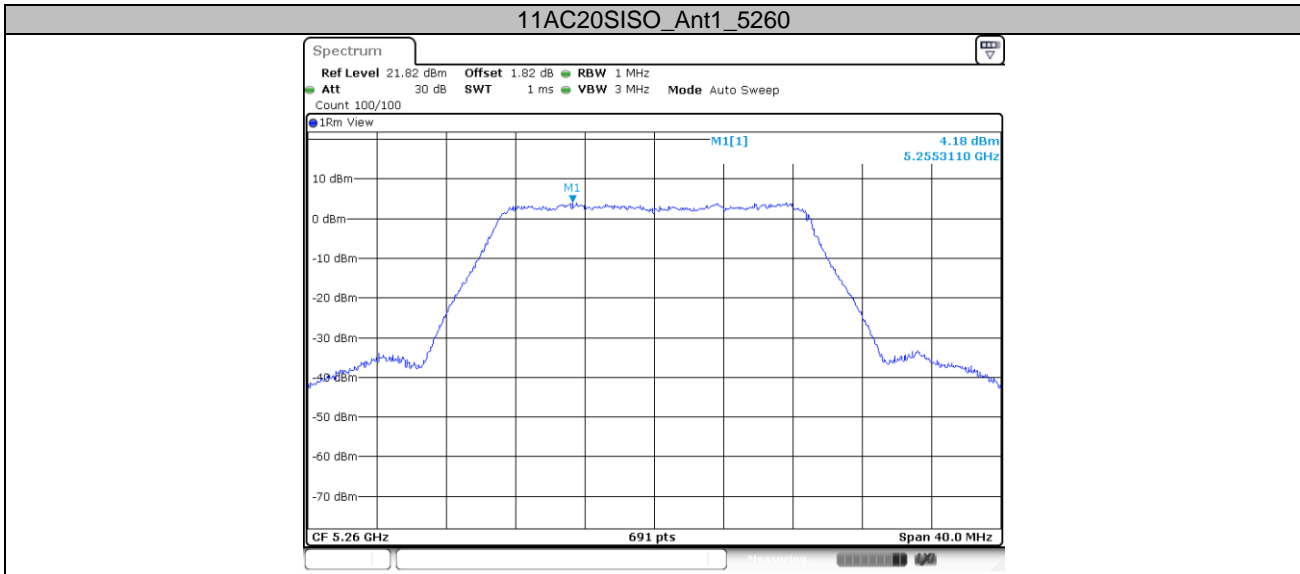


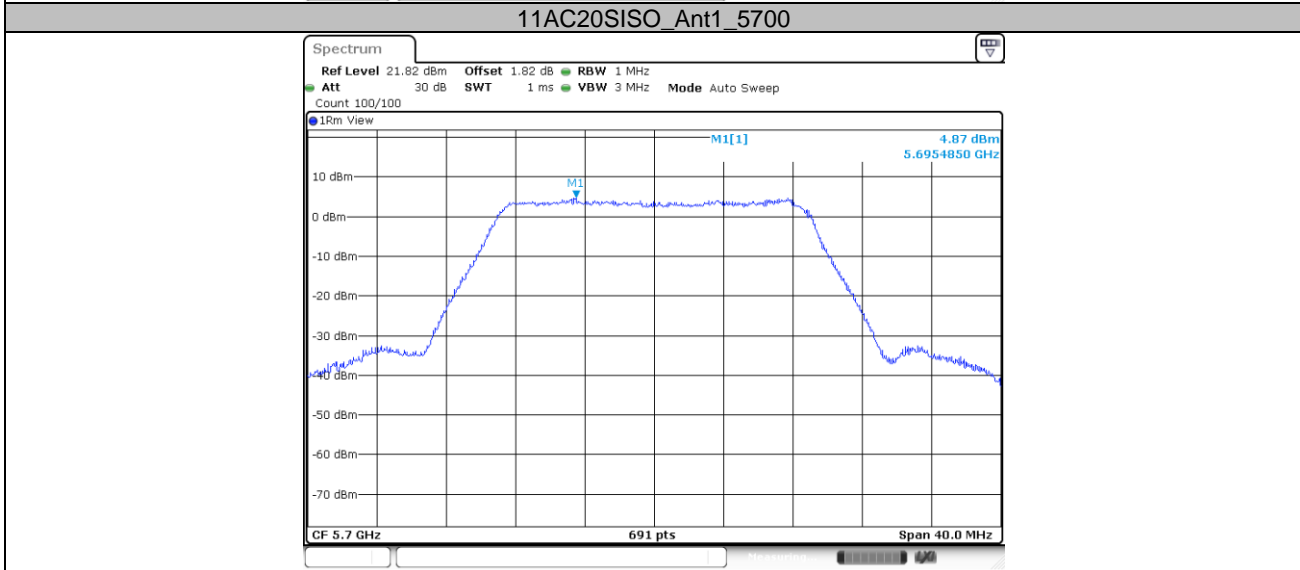
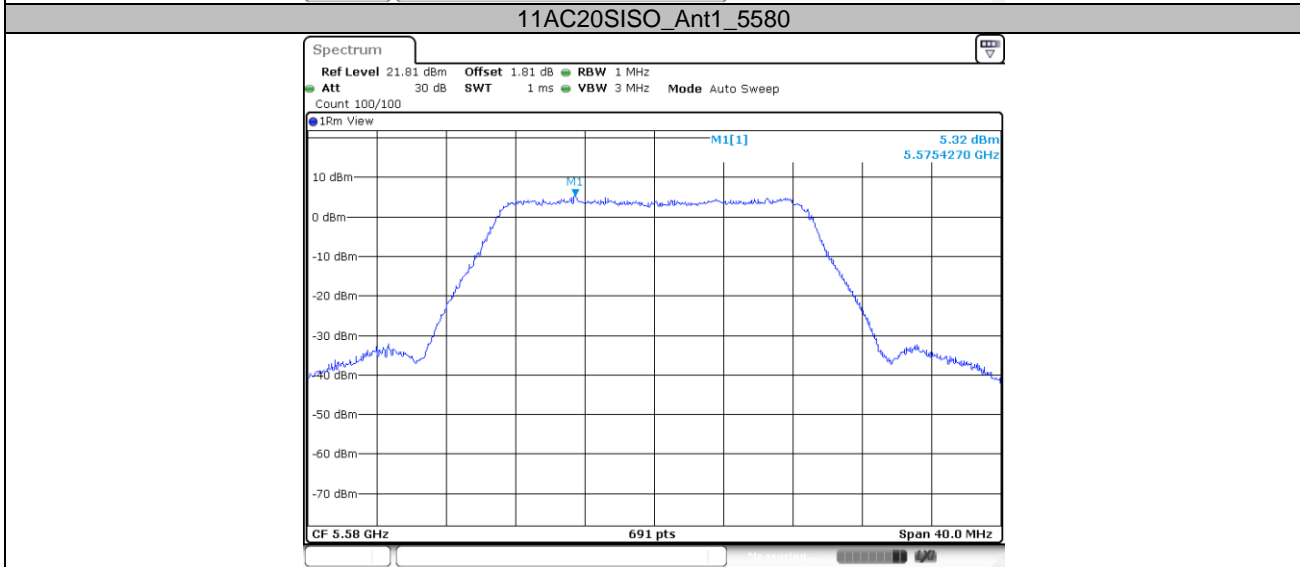
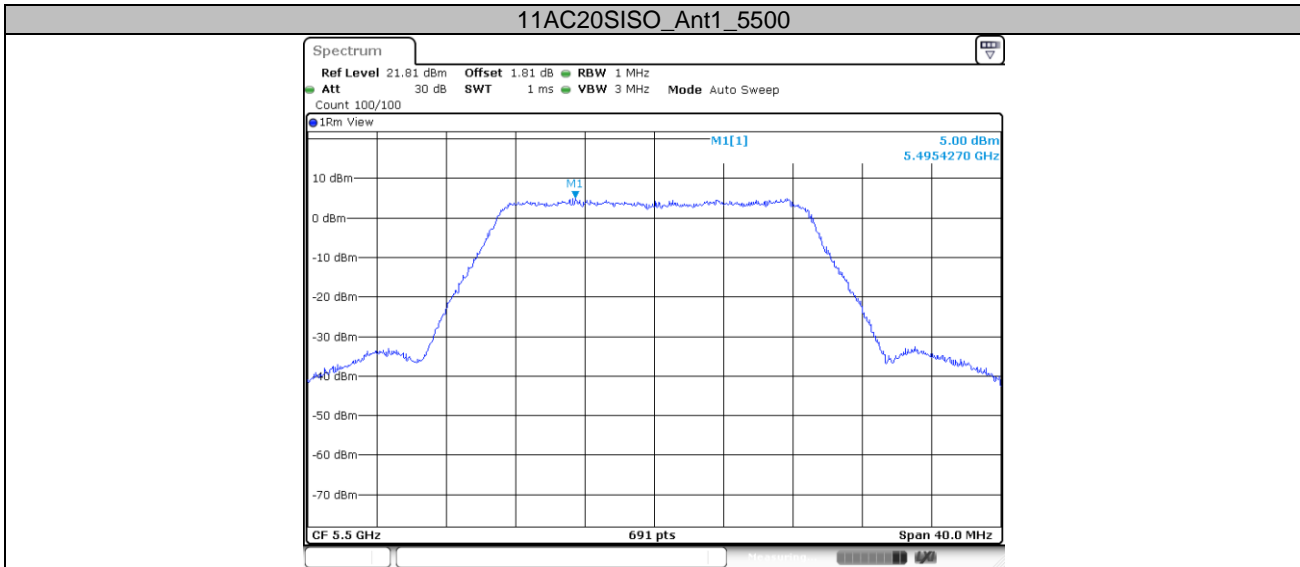


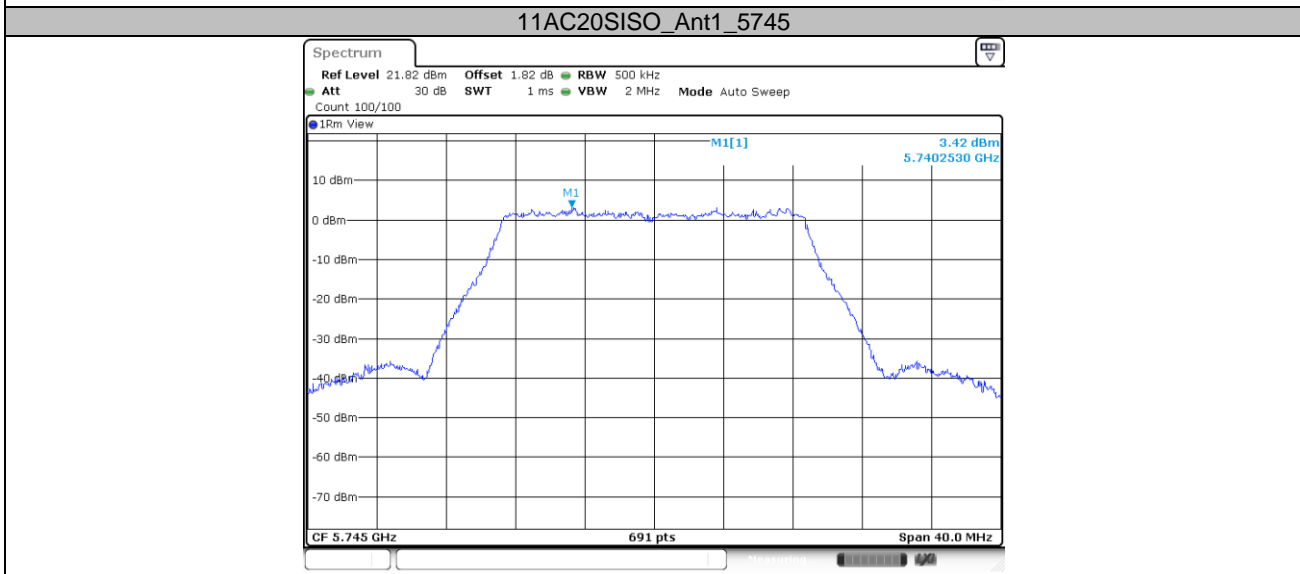
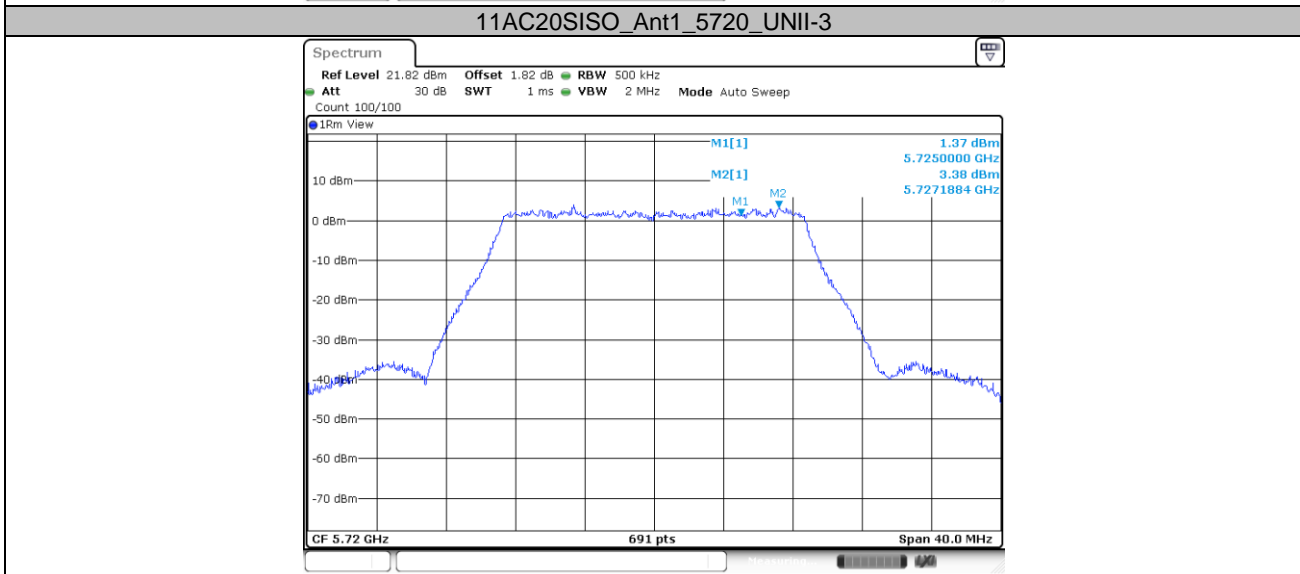
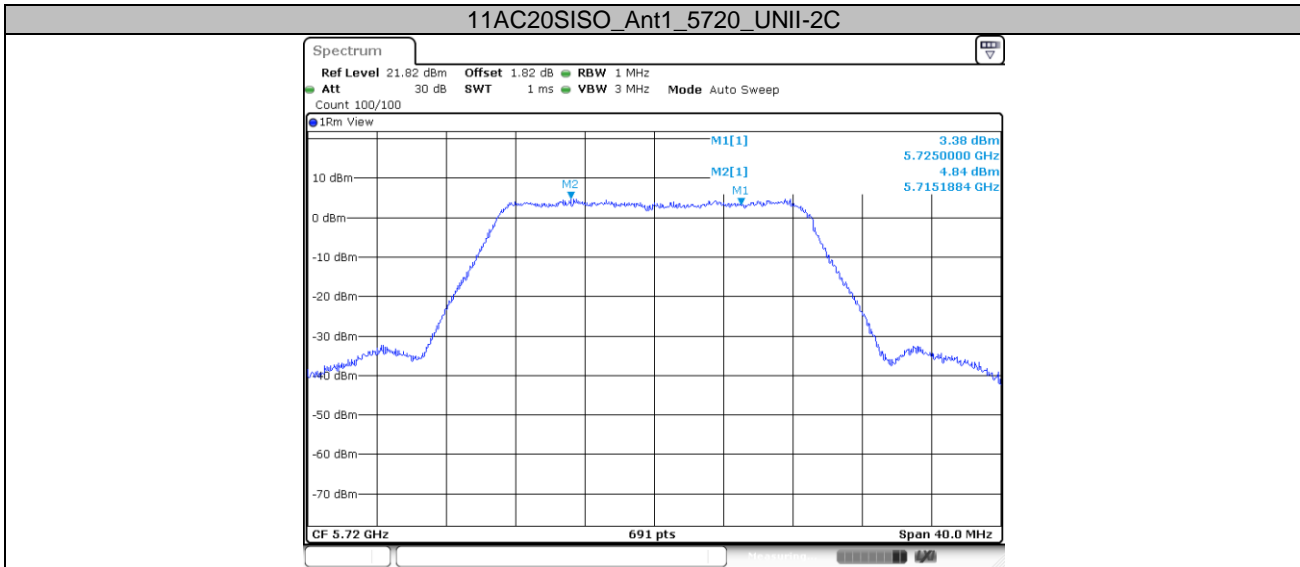


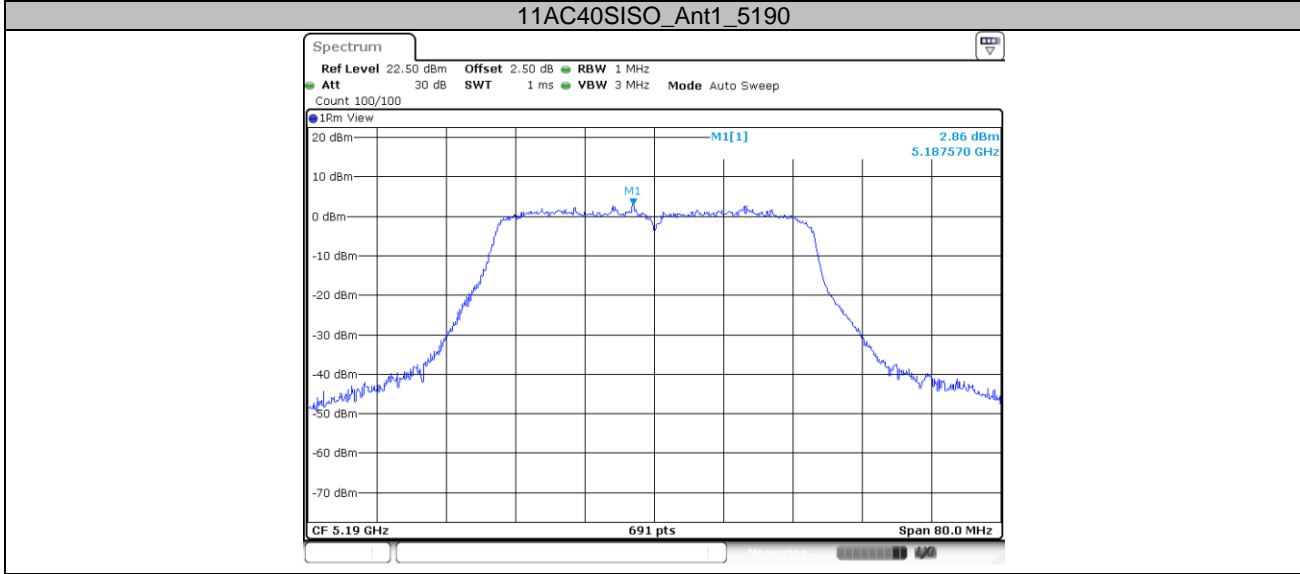
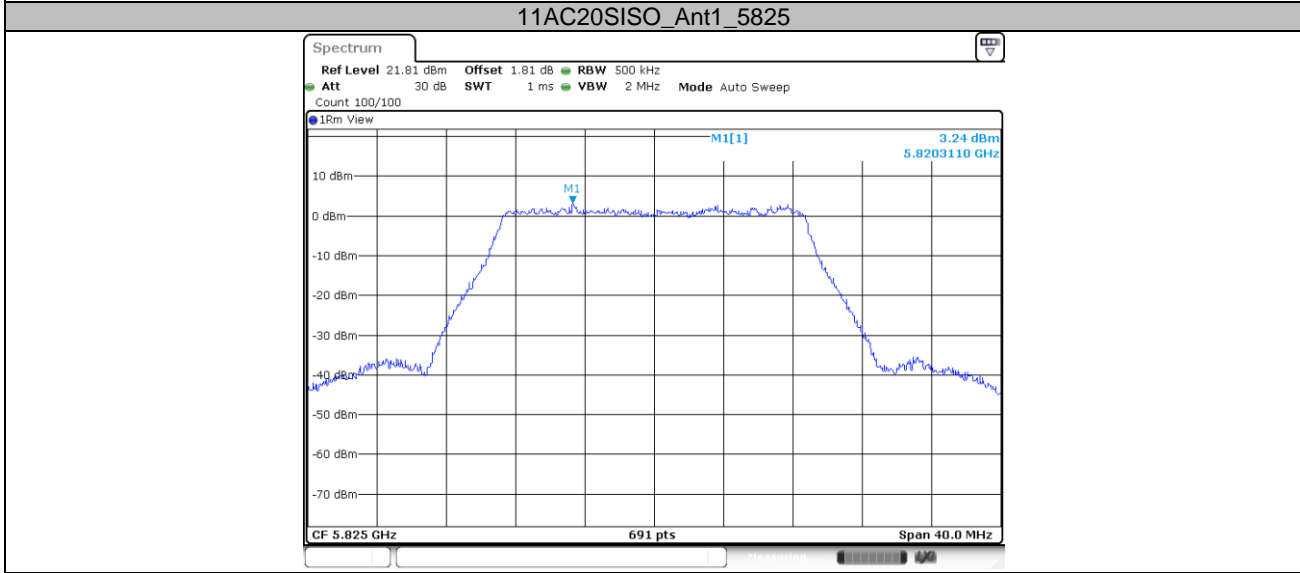
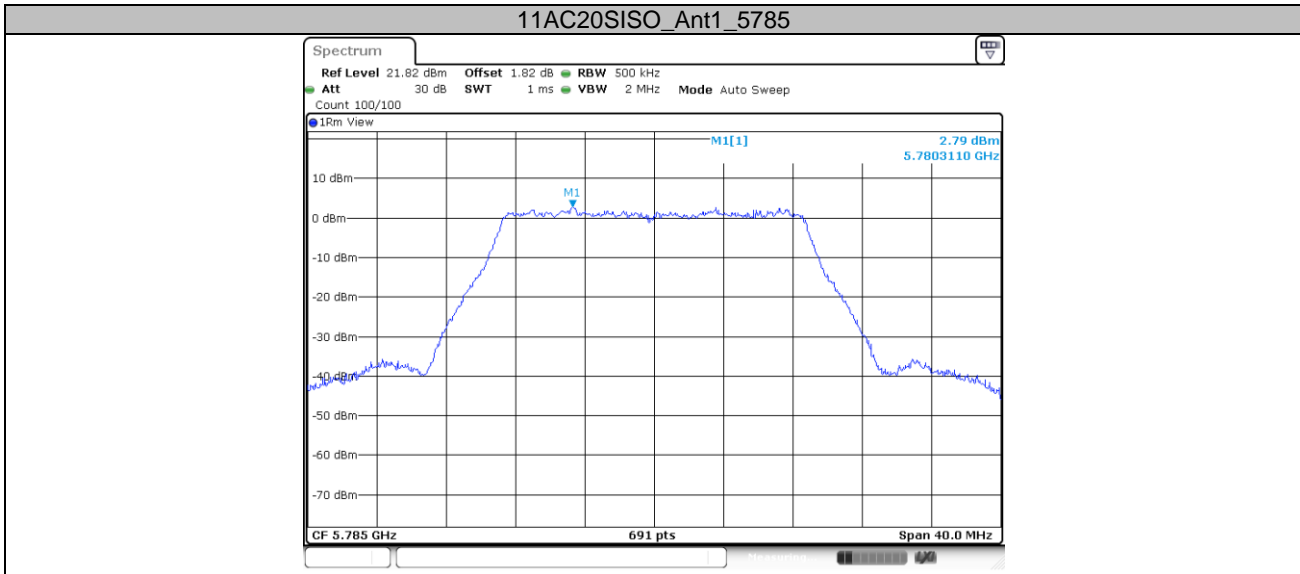


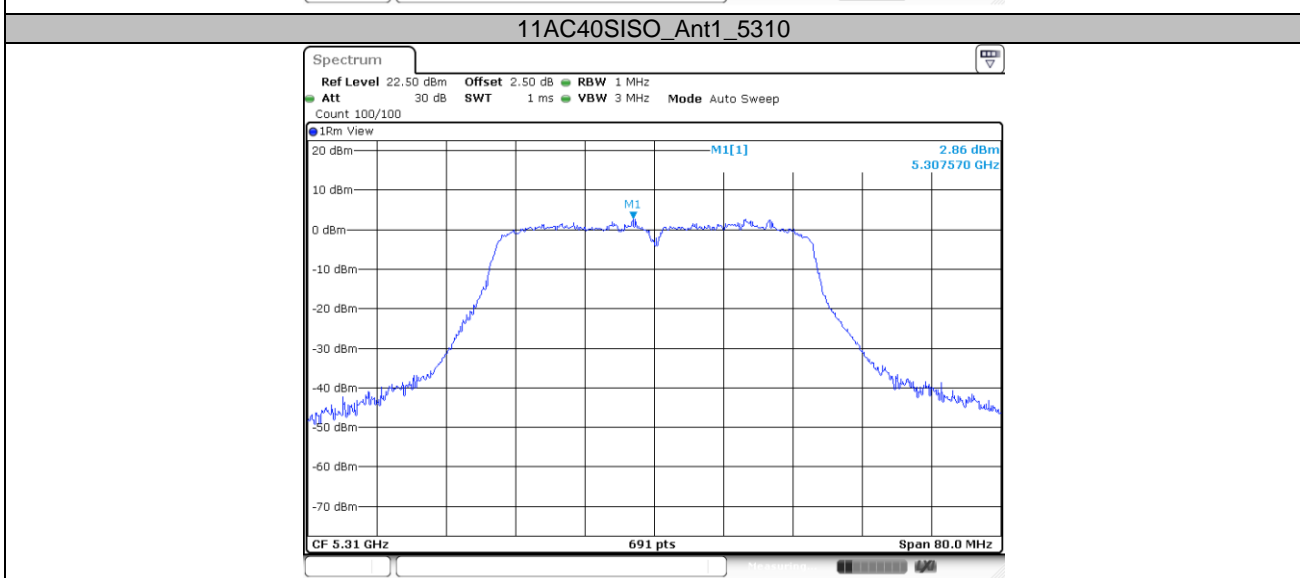
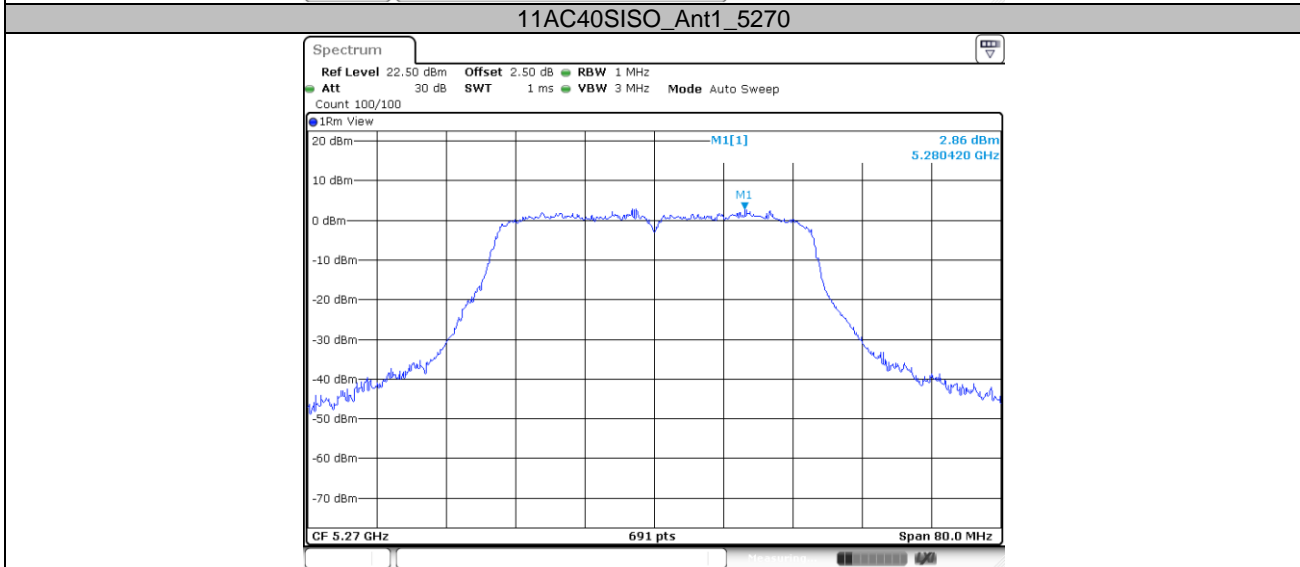
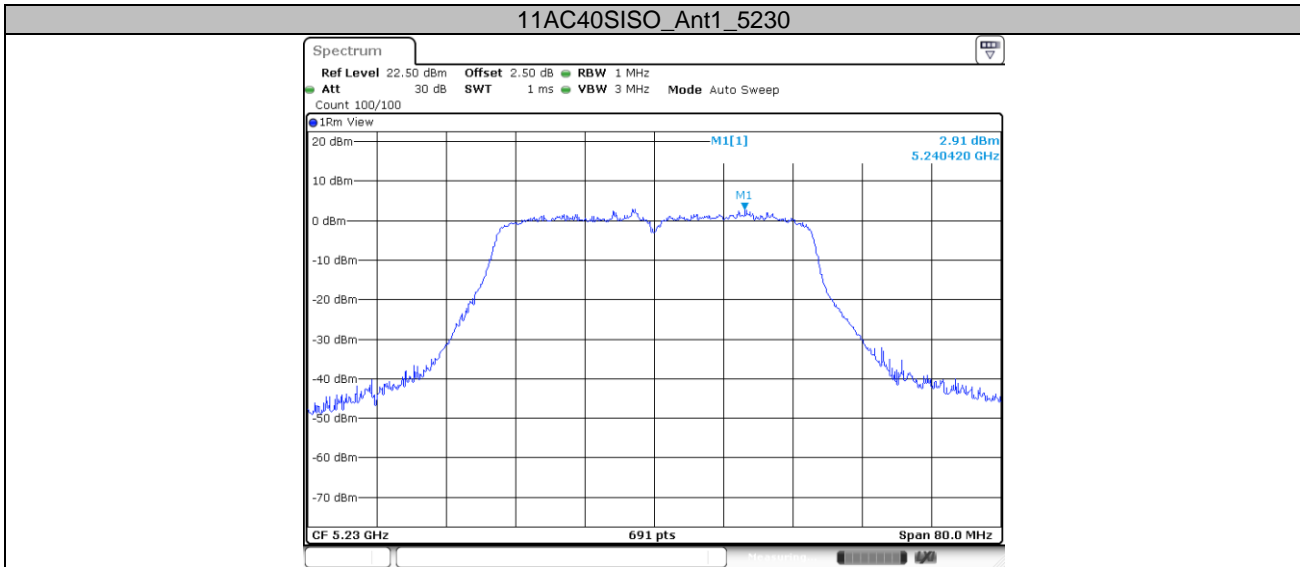


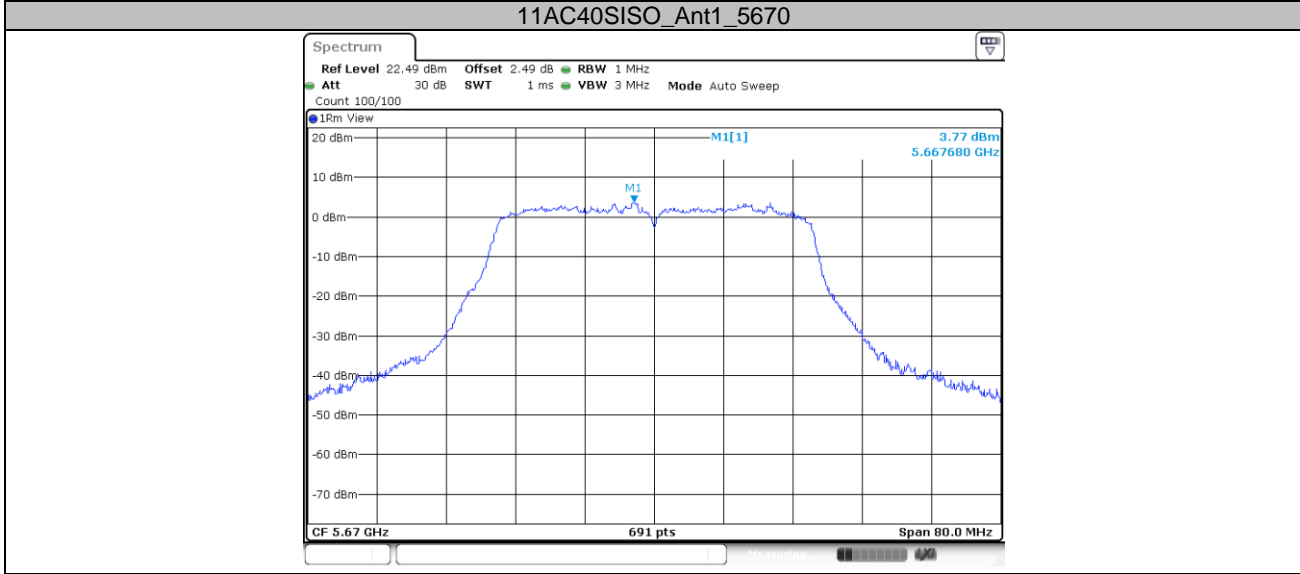
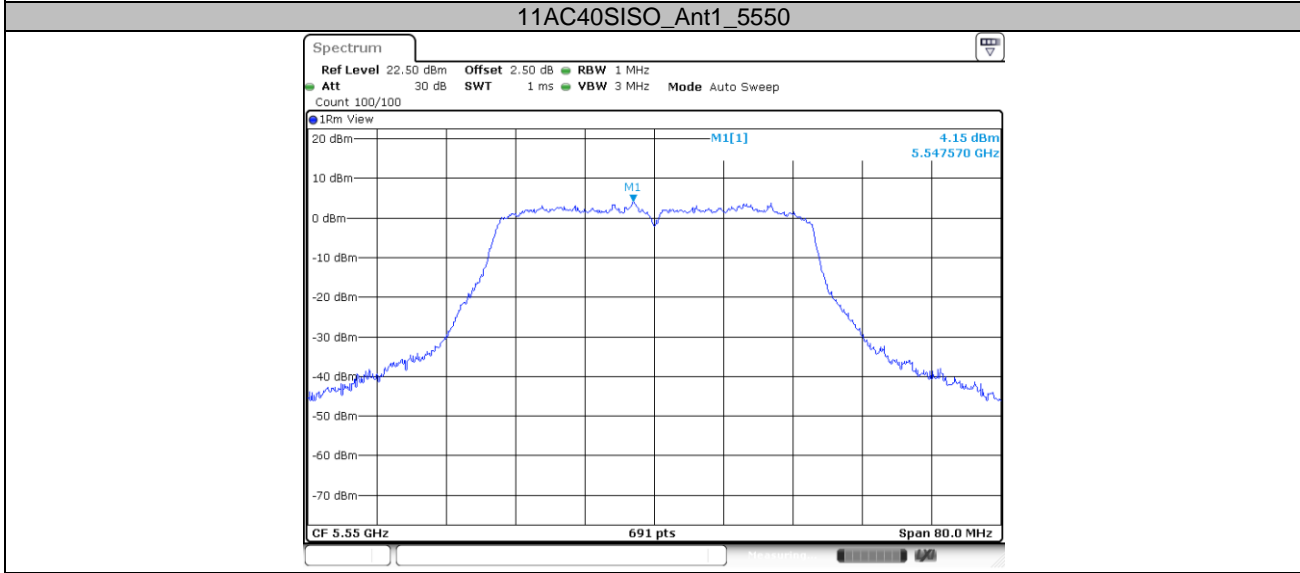
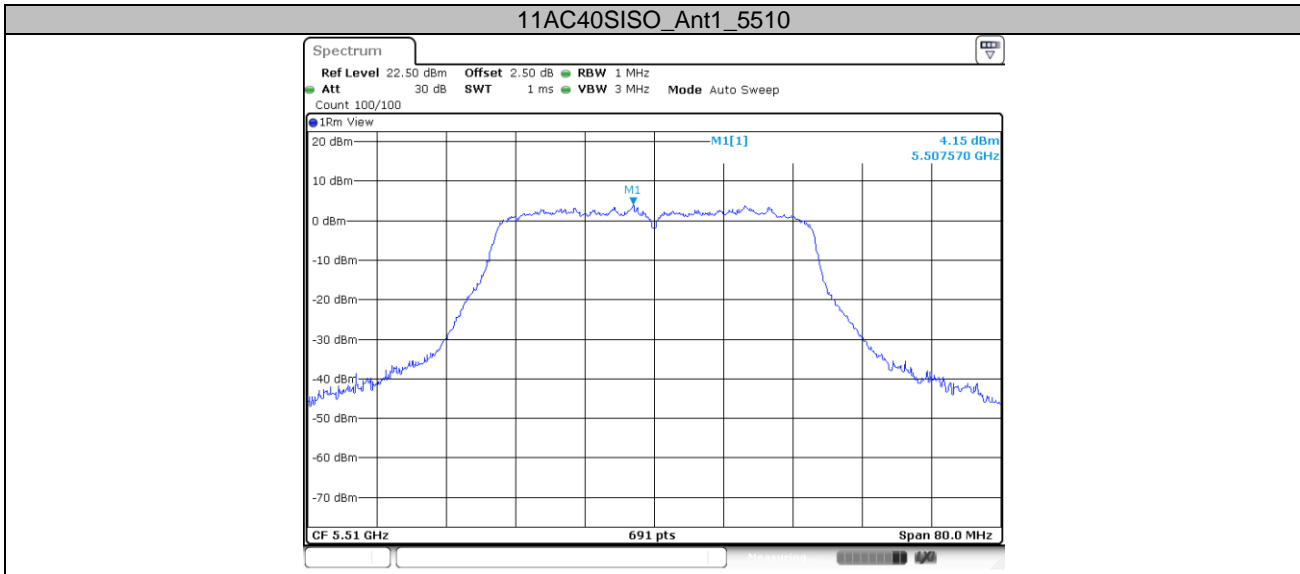




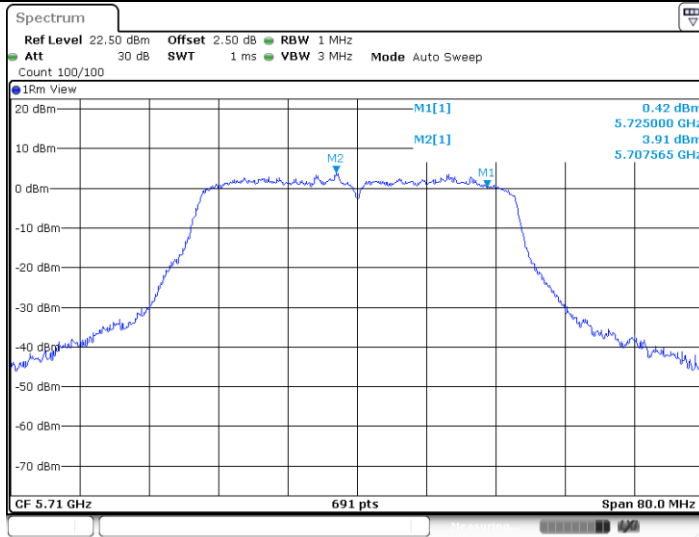




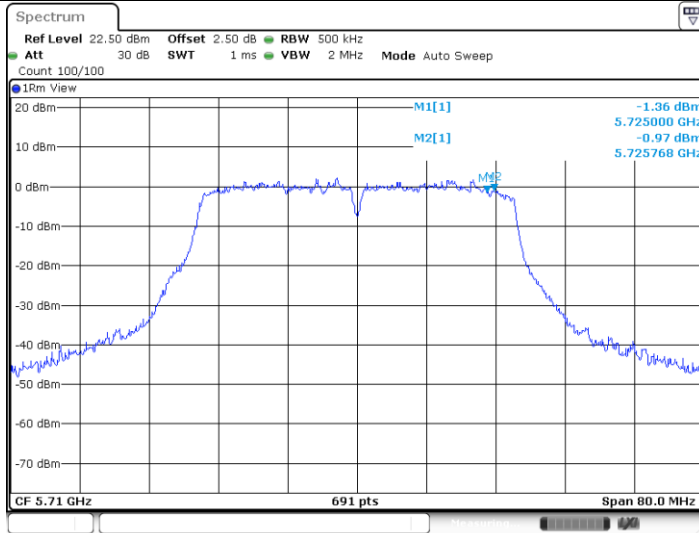




11AC40SISO_Ant1_5710_UNII-2C



11AC40SISO_Ant1_5710_UNII-3



11AC40SISO_Ant1_5755

