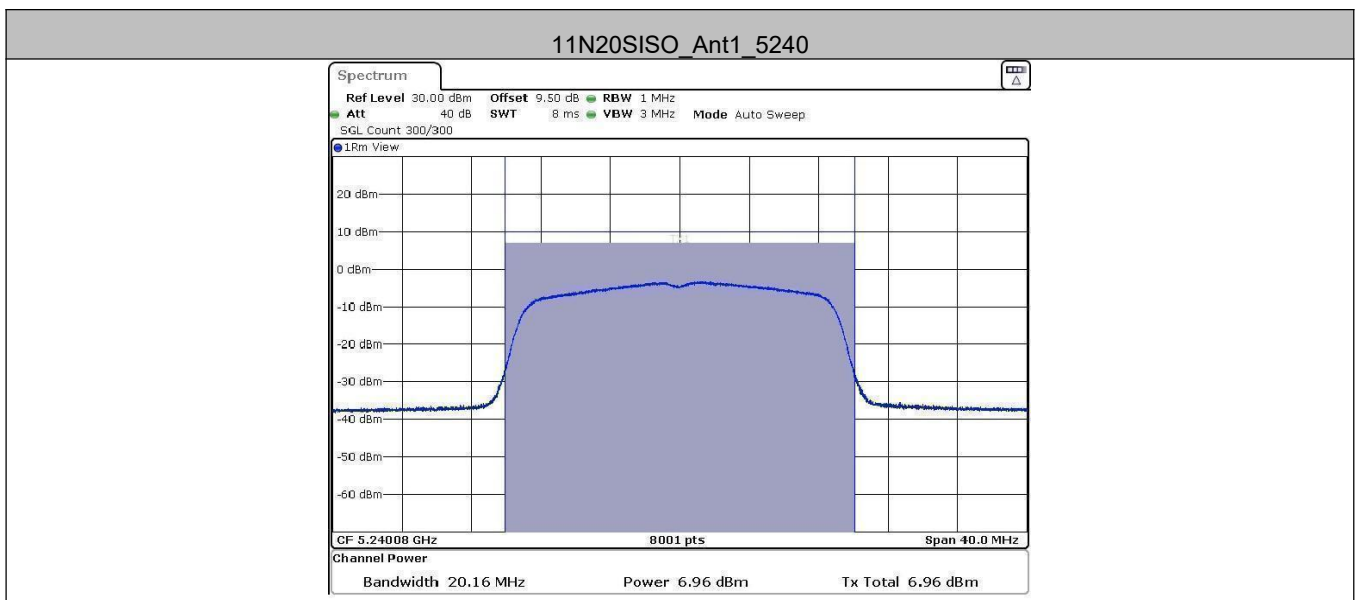
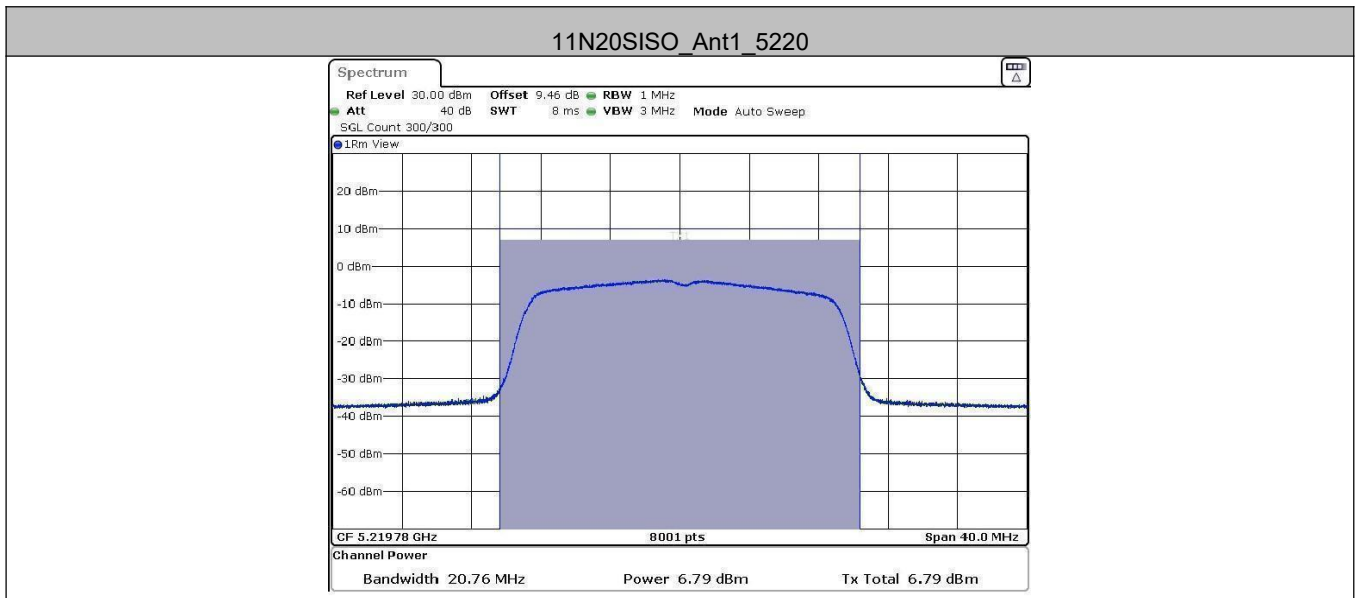
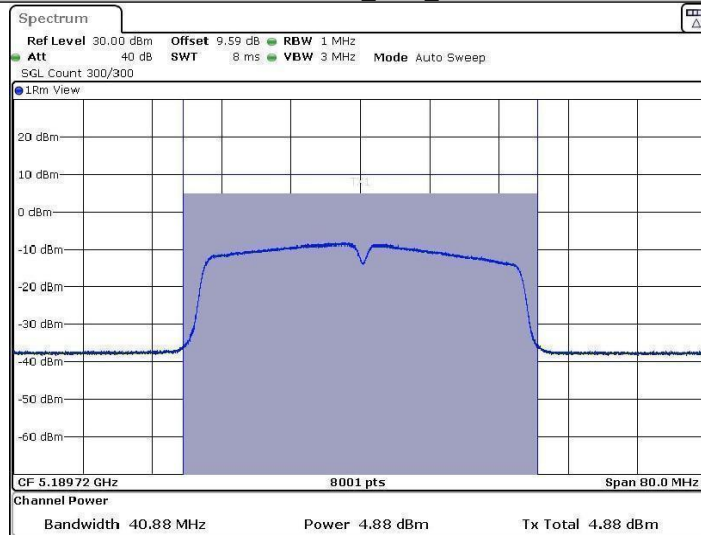
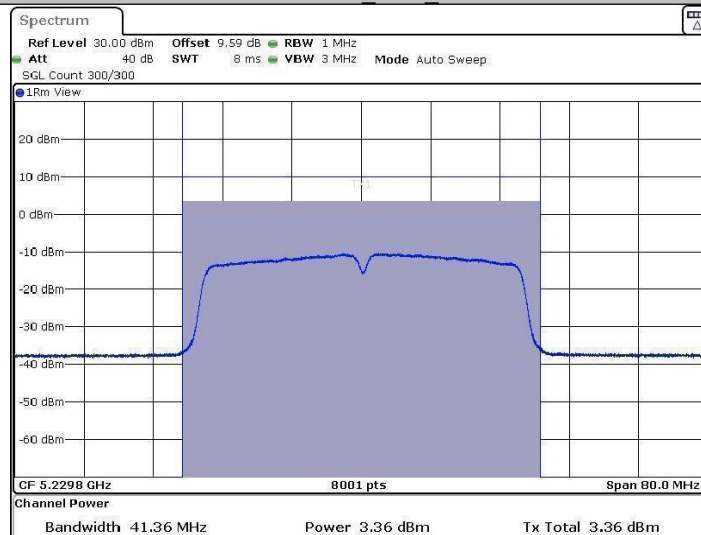




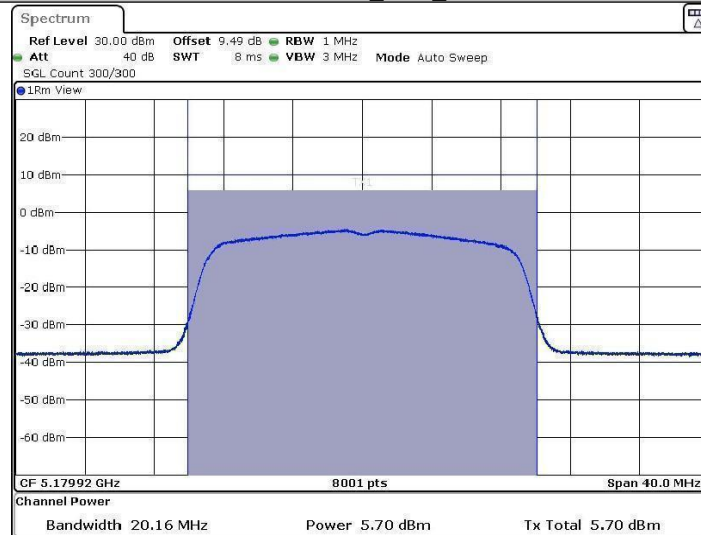
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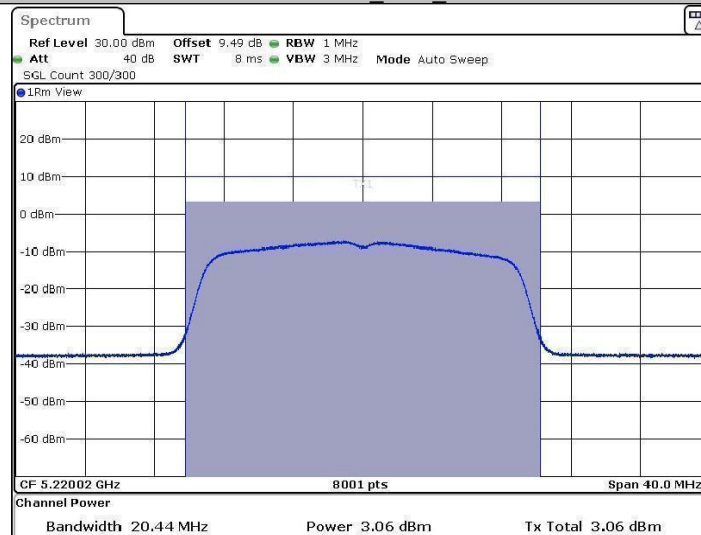
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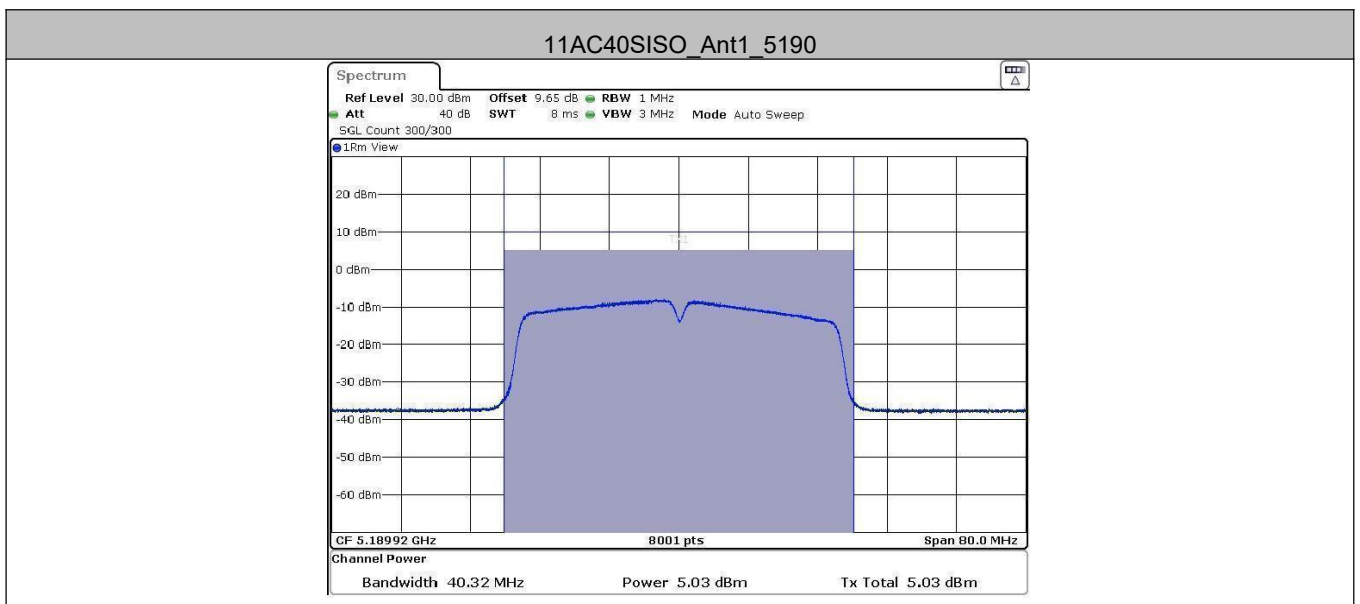
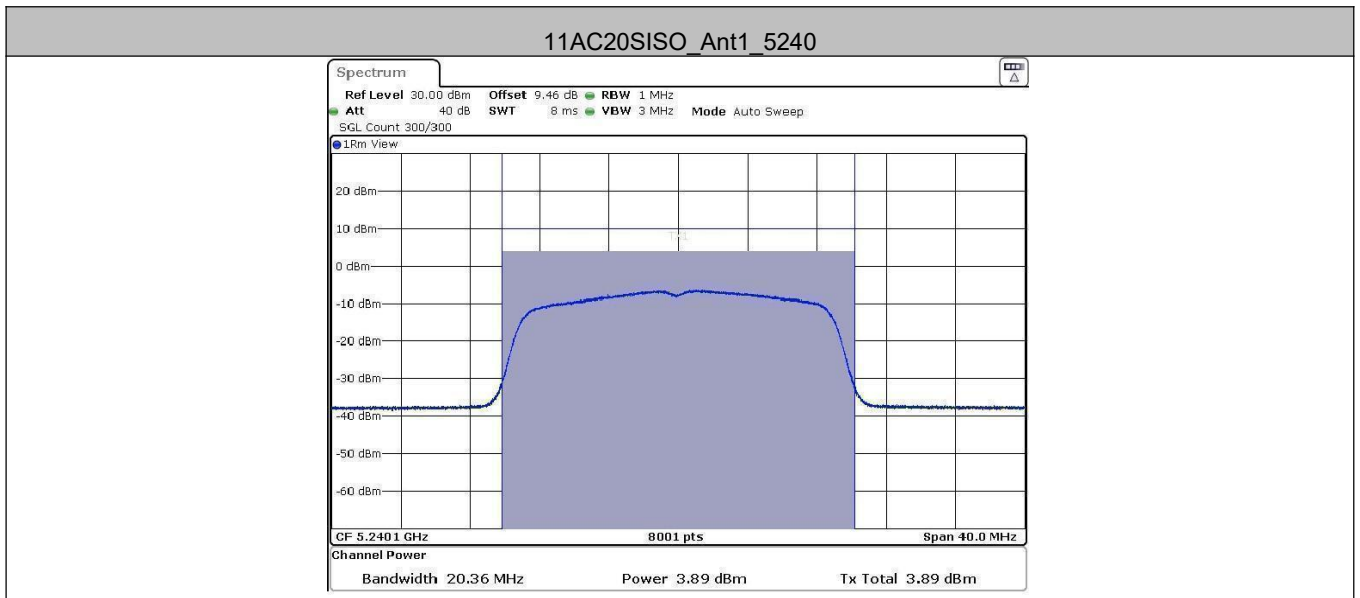


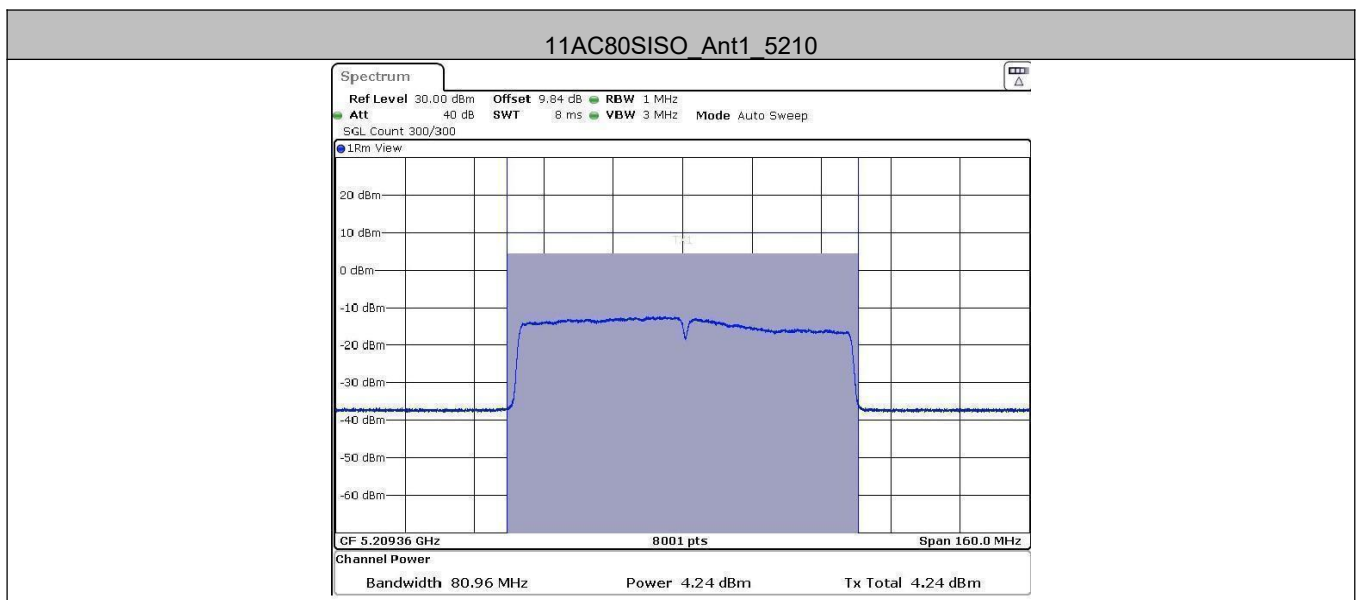
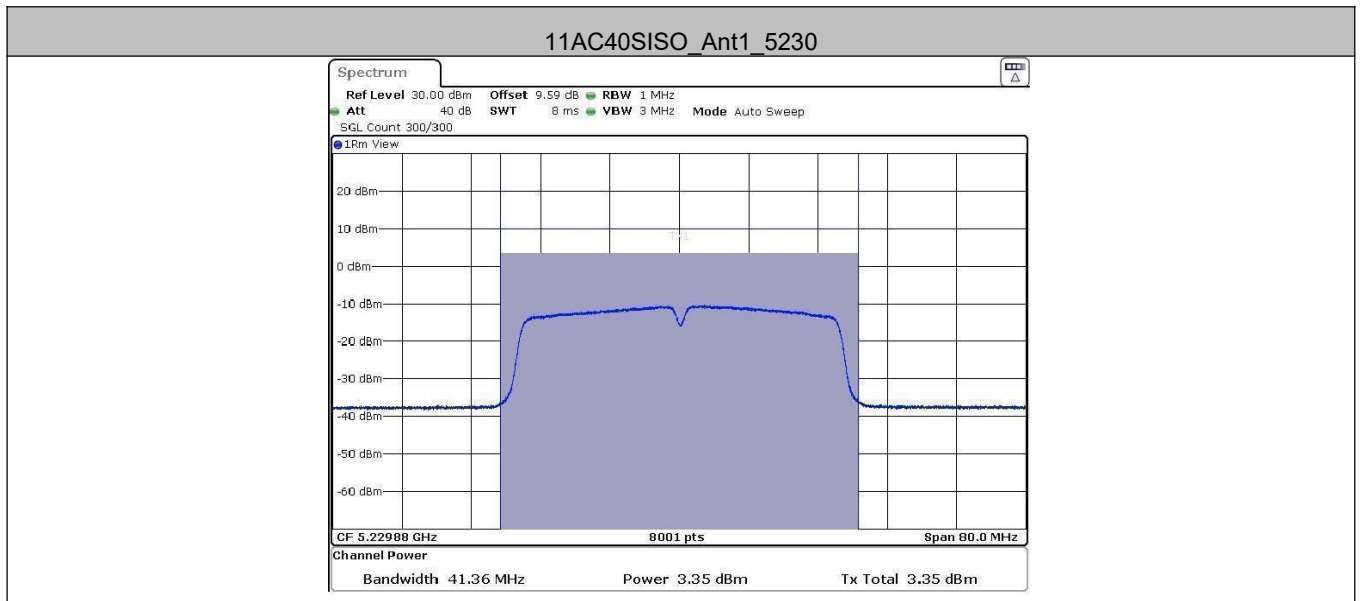
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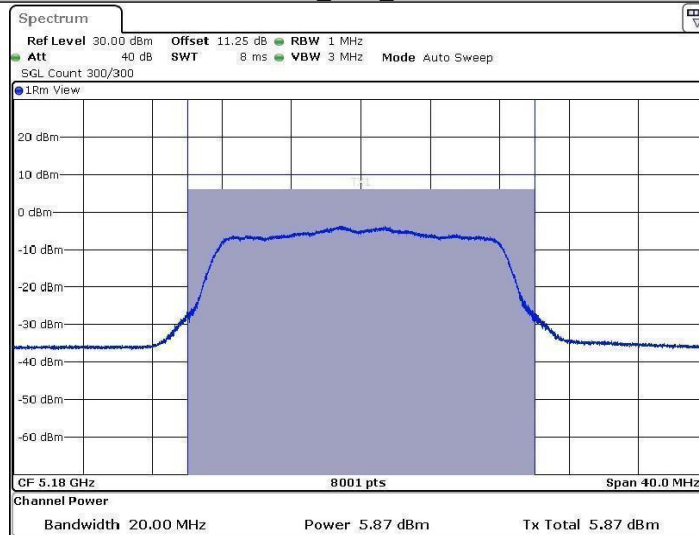
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11A_Ant2_5180



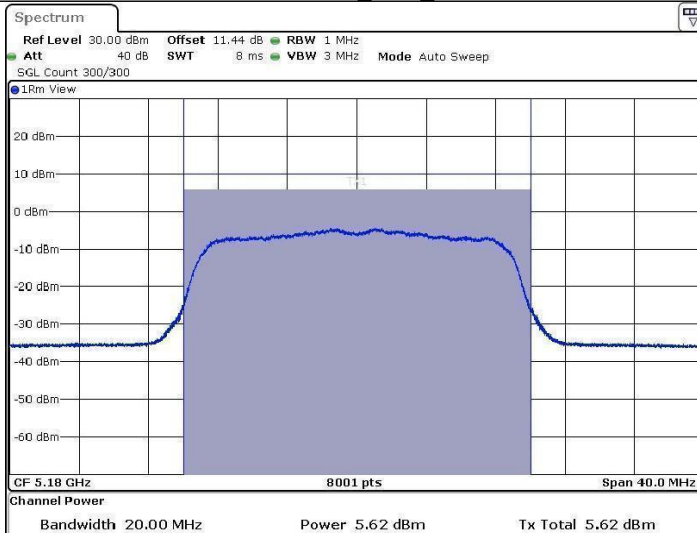
11A_Ant2_5200



11A_Ant2_5240



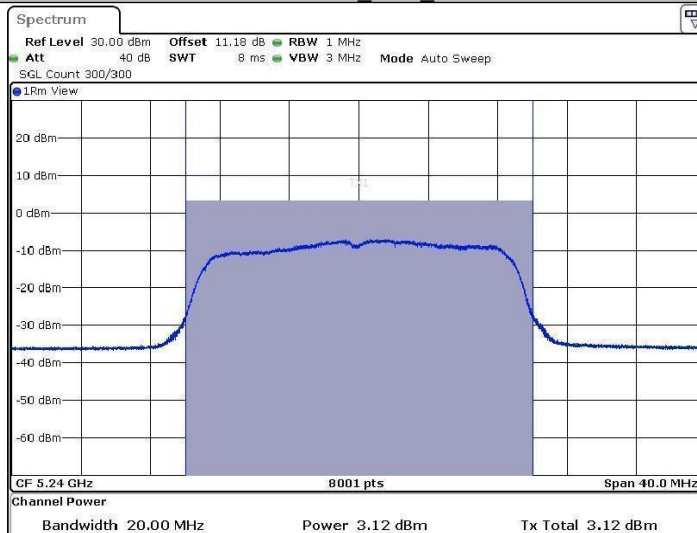
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11N20SISO_Ant2_5200



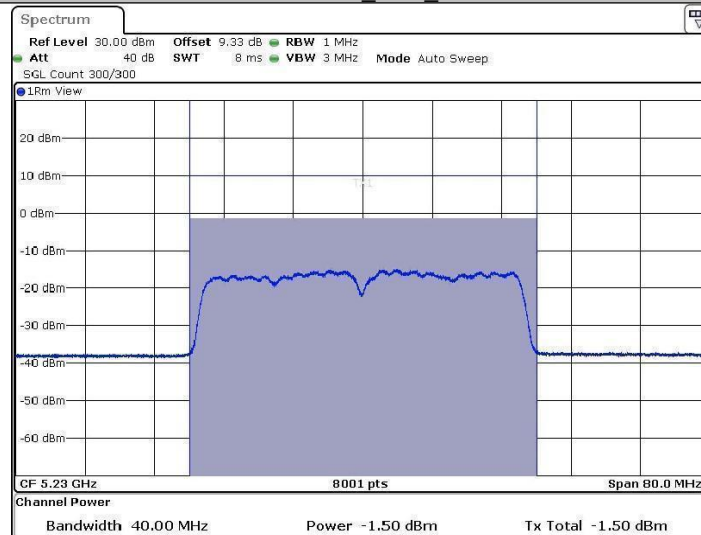
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11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



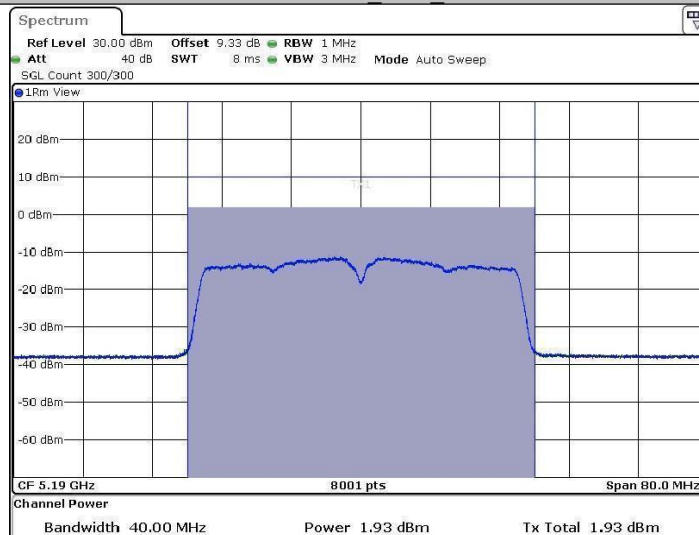
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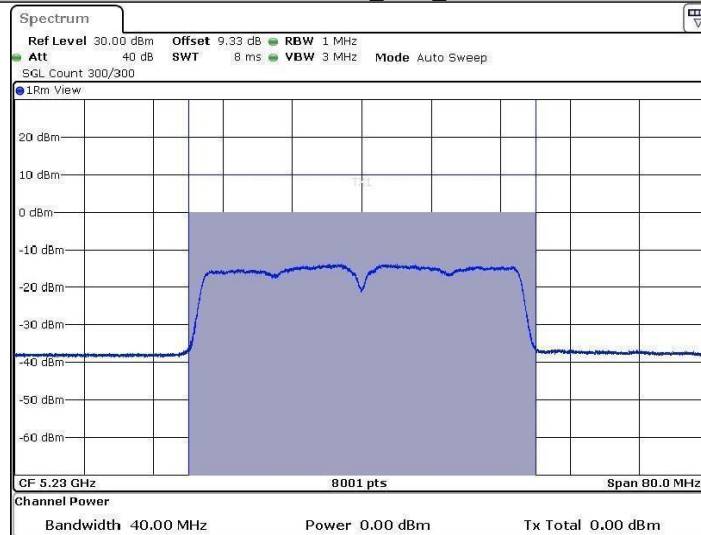
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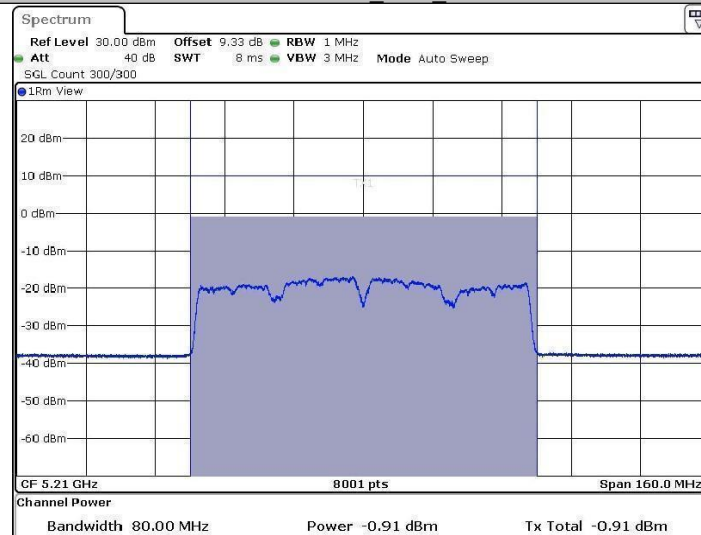
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



Appendix C): Maximum Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Test Procedure:

For 5150-5725MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 1MHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

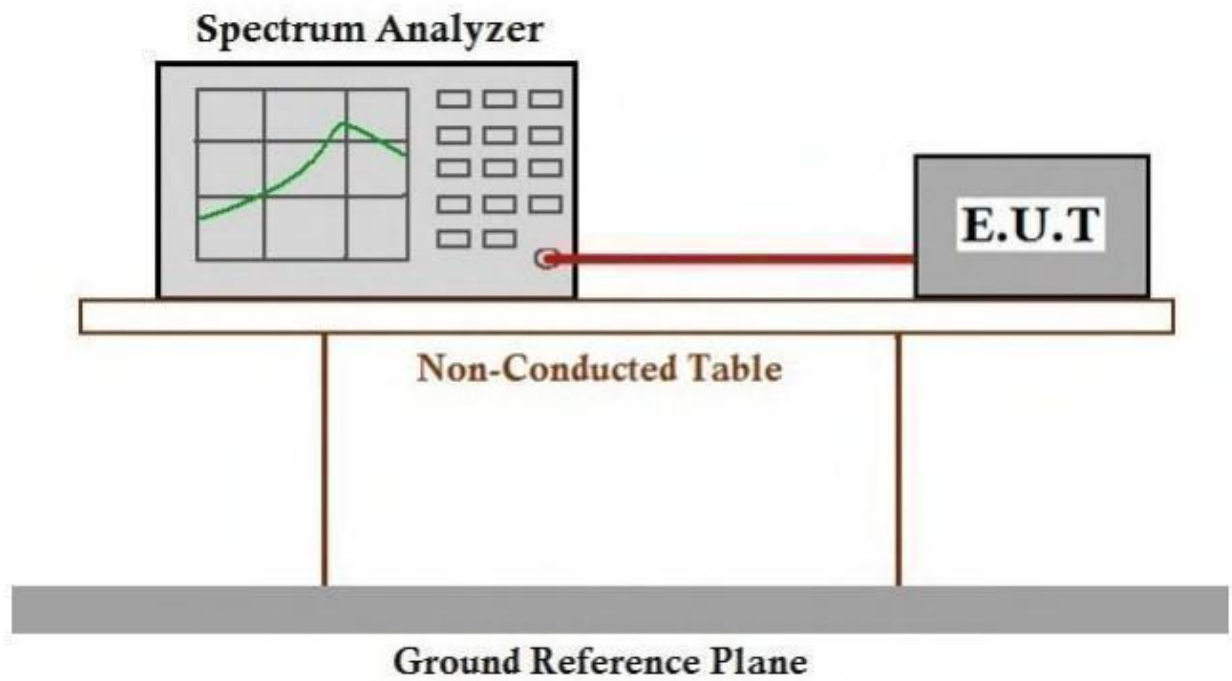
For 5725-5850MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 500KHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 17\text{dBm}$ in 1MHz for master device
	$\leq 11\text{dBm}$ in 1MHz for client device
5250-5350	$\leq 11\text{dBm}$ in 1MHz for client device
5470-5725	$\leq 11\text{dBm}$ in 1MHz for client device
5725-5850	$\leq 30\text{dBm}$ in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

Test Setup Diagram



Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.51	≤11	PASS
		5200	-1.37	≤11	PASS
		5240	-2.22	≤11	PASS
11N20SISO	Ant1	5180	-0.68	≤11	PASS
		5200	-1.99	≤11	PASS
		5240	-1.73	≤11	PASS
11N40SISO	Ant1	5190	-4.26	≤11	PASS
		5230	-5.56	≤11	PASS
11AC20SISO	Ant1	5180	-0.16	≤11	PASS
		5200	-1.42	≤11	PASS
		5240	-1.61	≤11	PASS
11AC40SISO	Ant1	5190	-3.99	≤11	PASS
		5230	-5.76	≤11	PASS
11AC80SISO	Ant1	5210	-9.19	≤11	PASS

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	-4.28	≤11	PASS
		5200	-5.86	≤11	PASS
		5240	-5.83	≤11	PASS
11N20SISO	Ant2	5180	-5.45	≤11	PASS
		5200	-5.97	≤11	PASS
		5240	-7.09	≤11	PASS
11N40SISO	Ant2	5190	-12.99	≤11	PASS
		5230	-14.85	≤11	PASS
11AC20SISO	Ant2	5180	-4.81	≤11	PASS
		5200	-5.41	≤11	PASS
		5240	-6.17	≤11	PASS
11AC40SISO	Ant2	5190	-11.15	≤11	PASS
		5230	-14.07	≤11	PASS
11AC80SISO	Ant2	5210	-16.84	≤11	PASS

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	Ant1+Ant2	5180	0.57	≤11	PASS
		5200	-0.53	≤11	PASS
		5240	-0.62	≤11	PASS
11N40MIMO	Ant1+Ant2	5190	-3.71	≤11	PASS
		5230	-5.08	≤11	PASS
11AC20MIMO	Ant1+Ant2	5180	1.12	≤11	PASS
		5200	0.04	≤11	PASS
		5240	-0.31	≤11	PASS
11AC40MIMO	Ant1+Ant2	5190	-3.23	≤11	PASS
		5230	-5.16	≤11	PASS
11AC80MIMO	Ant1+Ant2	5210	-8.50	≤11	PASS

Remark:

Note:

The antenna is Omni Directional Antenna.

The best case gain of the ANT1 is 0.97dBi. The best case gain of the ANT2 is 0.97dBi.

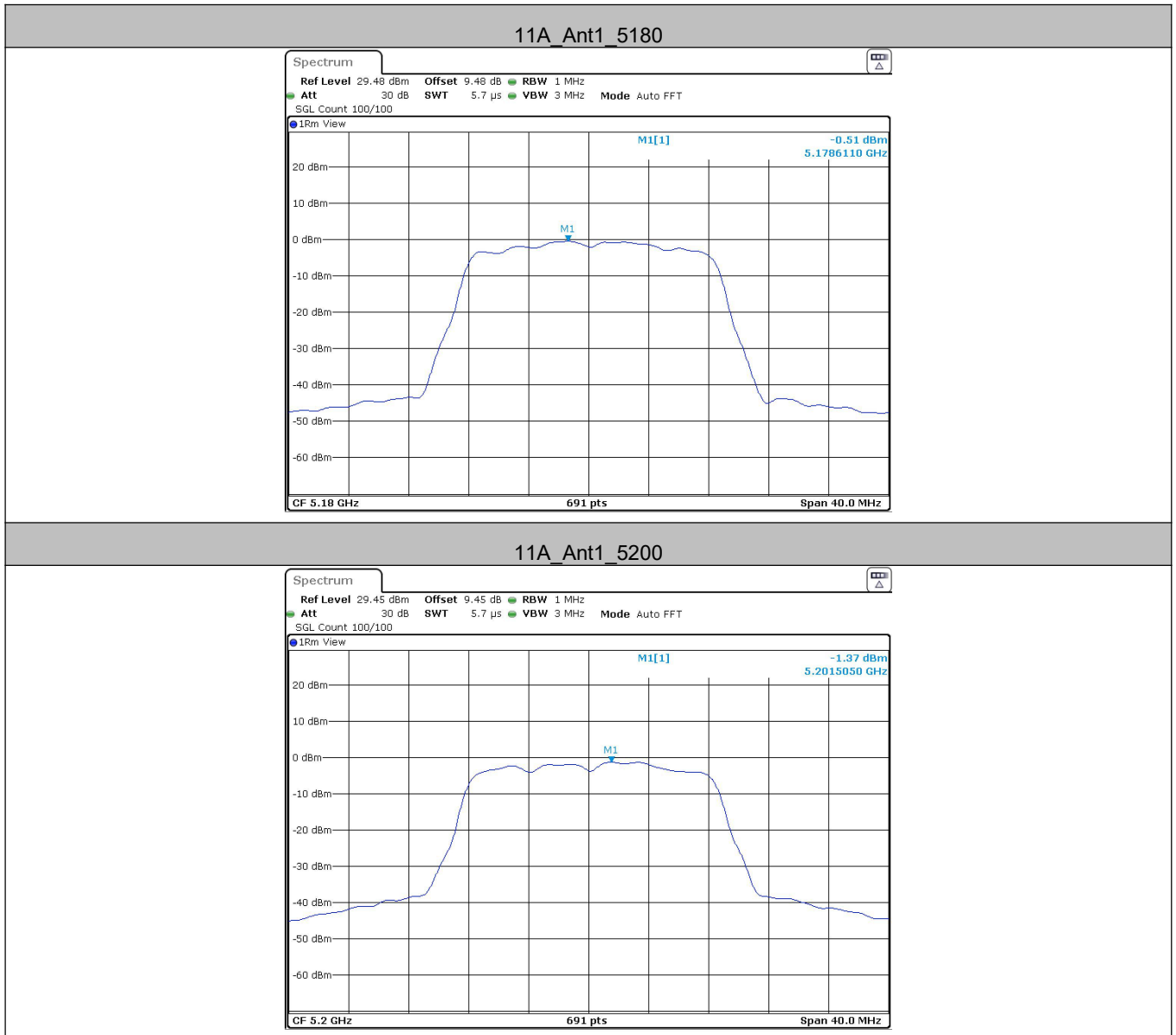
MIMO mode:the antenna gain is 3.98dBi.

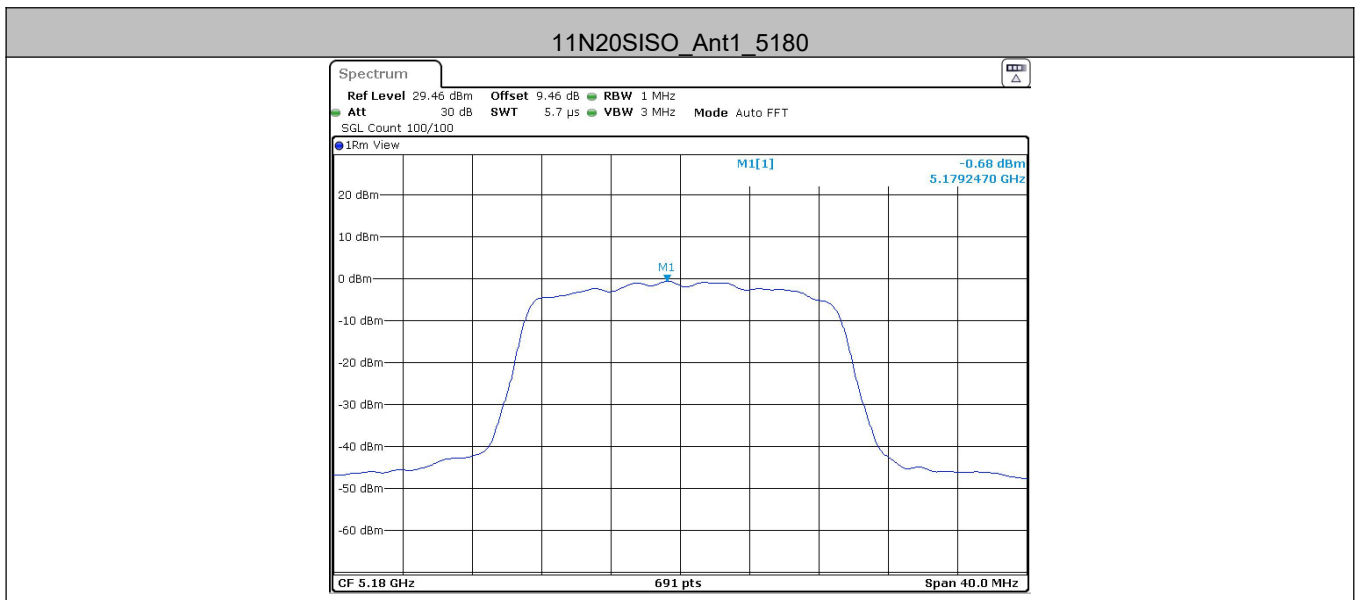
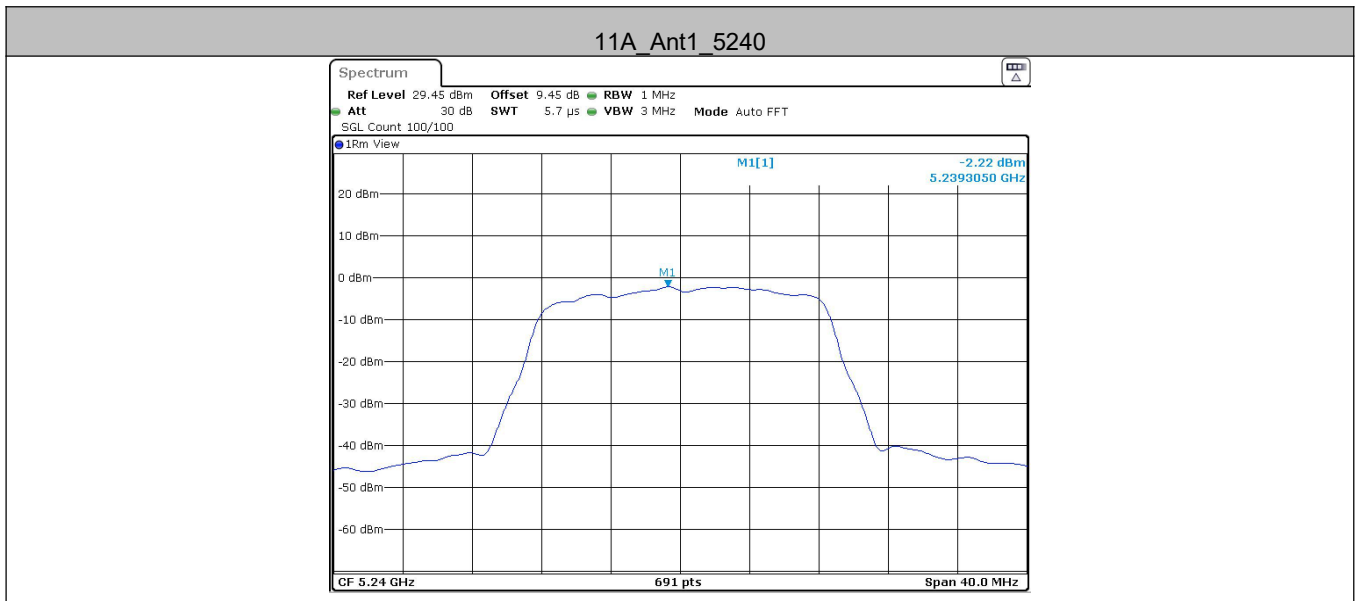
Transmit signals are correlated with each other,

Directional gain= $G_{ANT}+10\log(N_{ANT})\text{dBi}=0.97+10\log(2)\text{dBi}=3.98\text{dBi}$

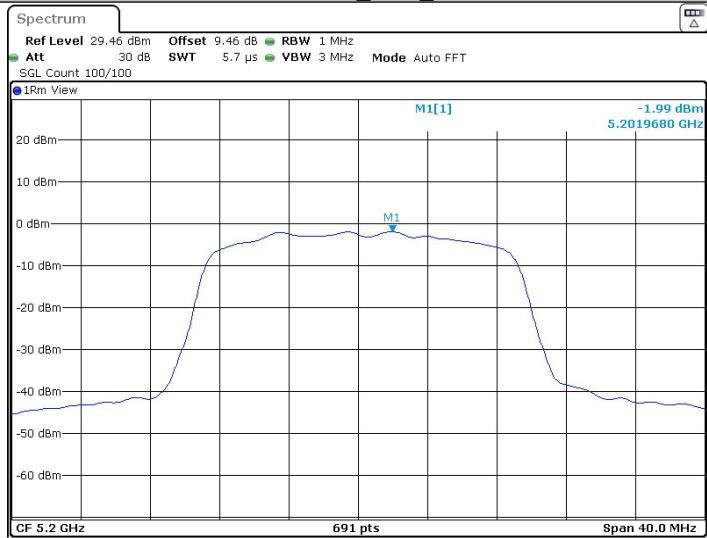
The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

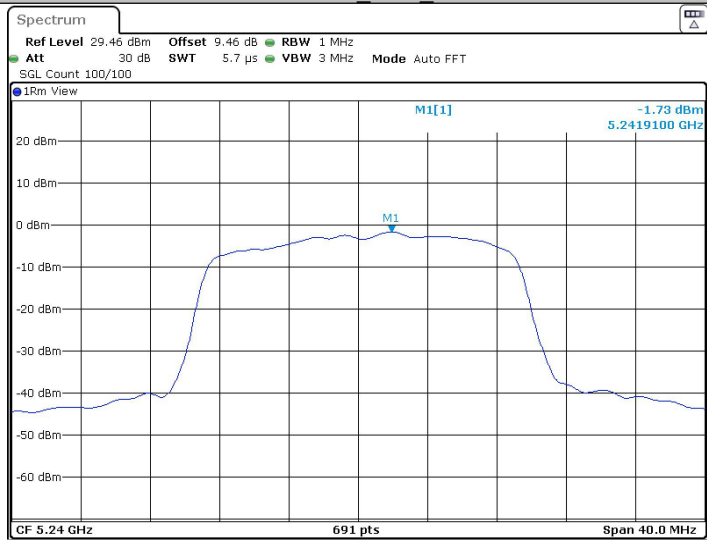




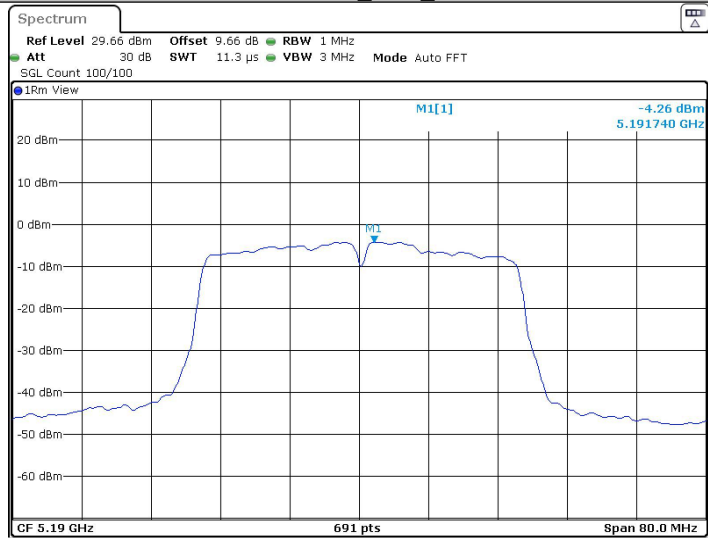
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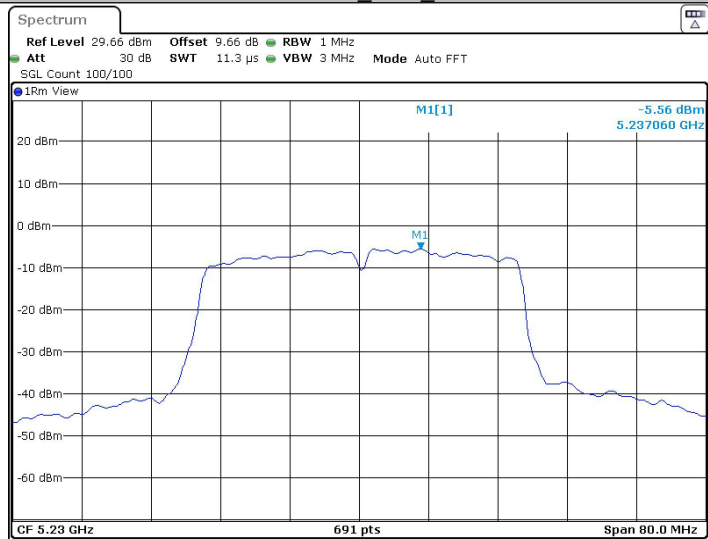
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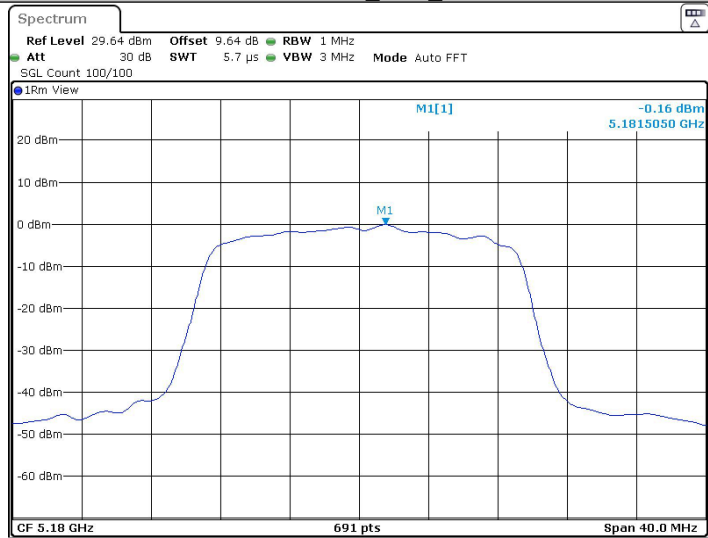
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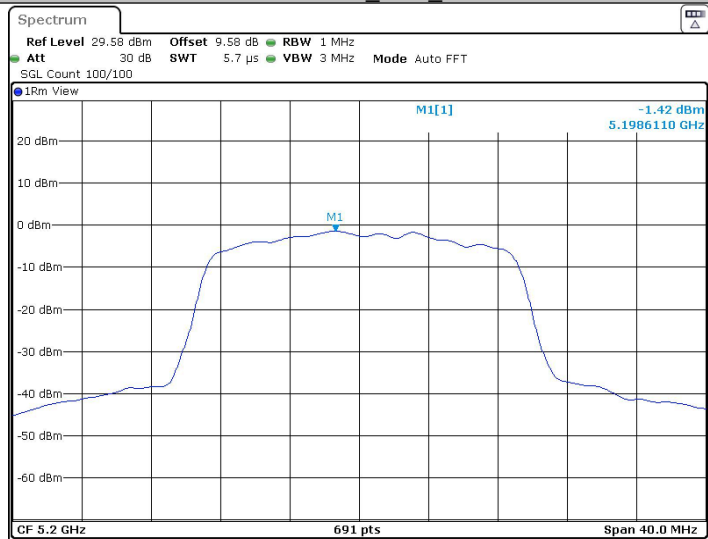
11N40SISO_Ant1_5230



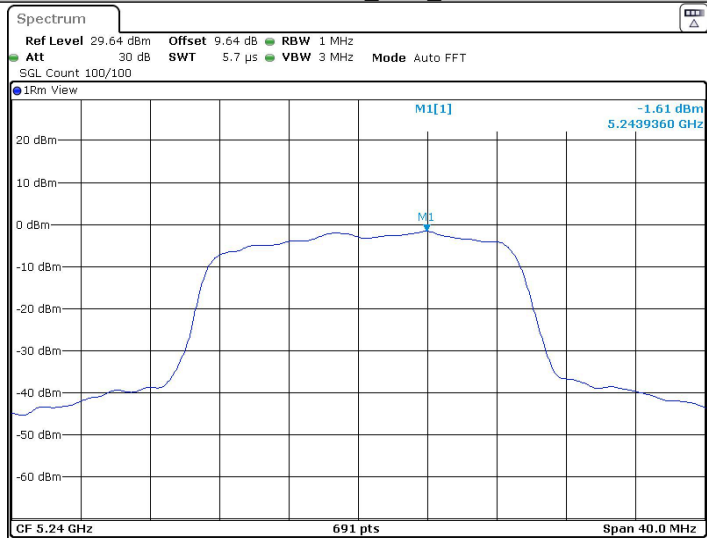
11AC20SISO_Ant1_5180



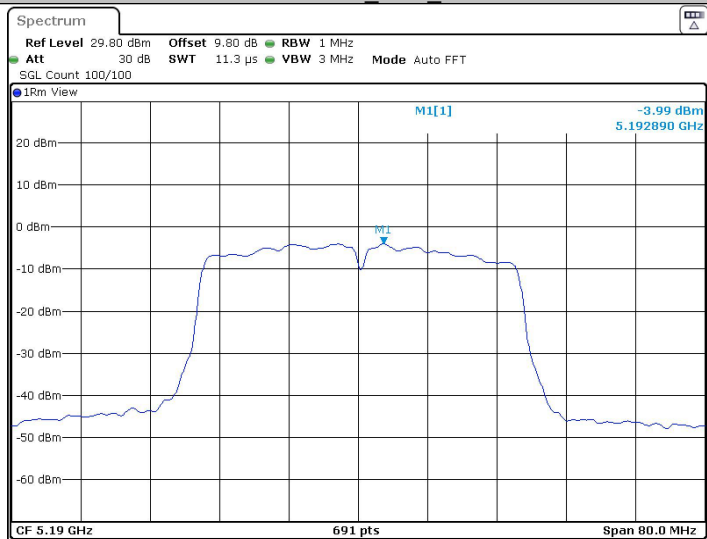
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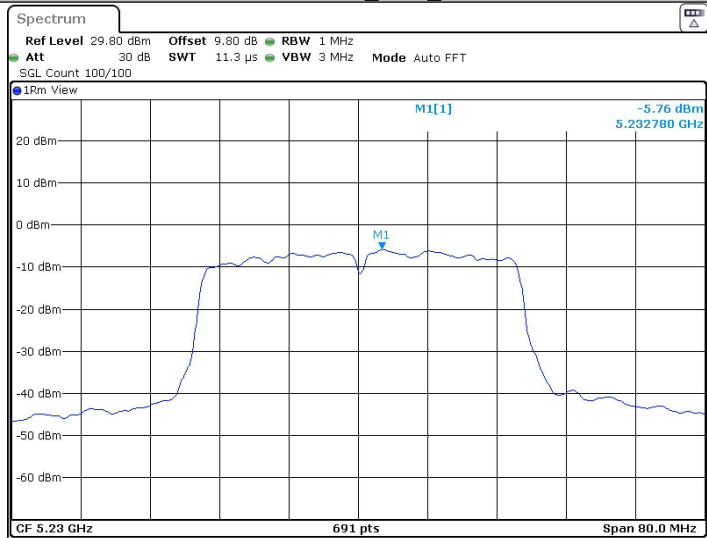
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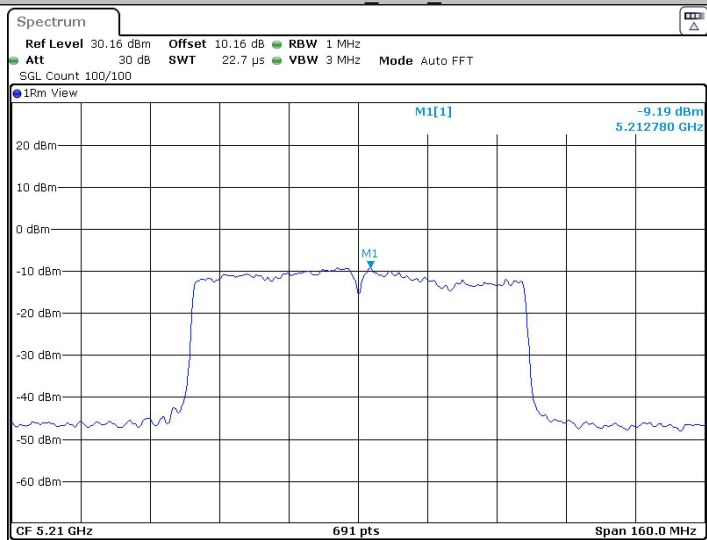
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



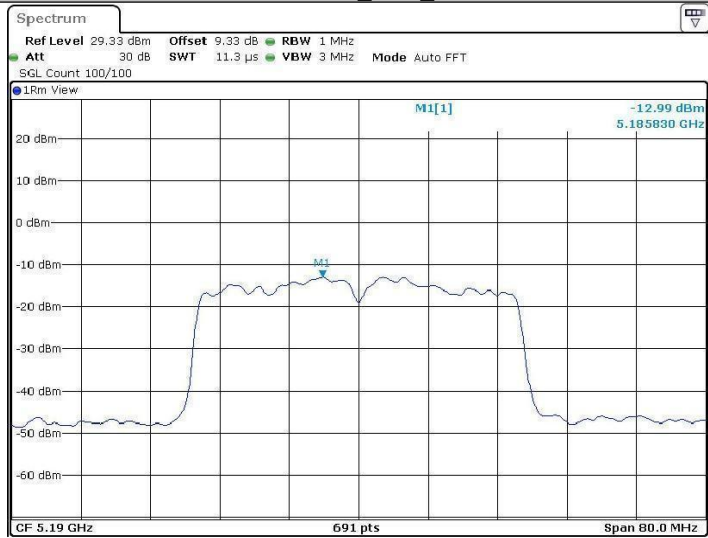
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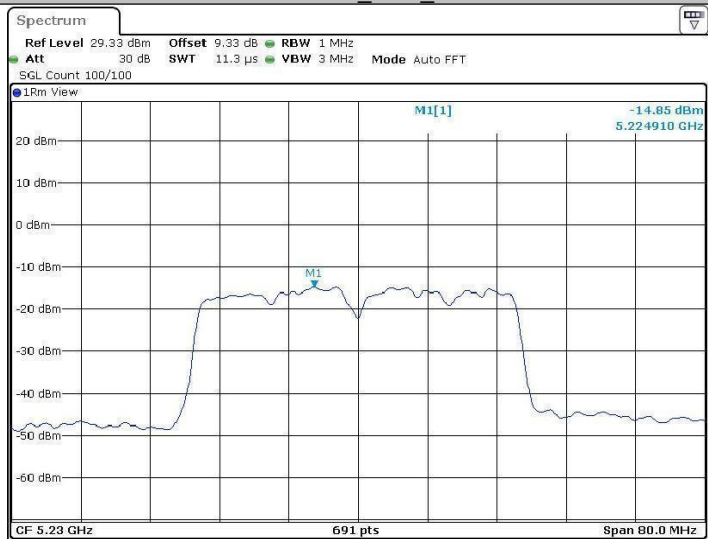
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11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



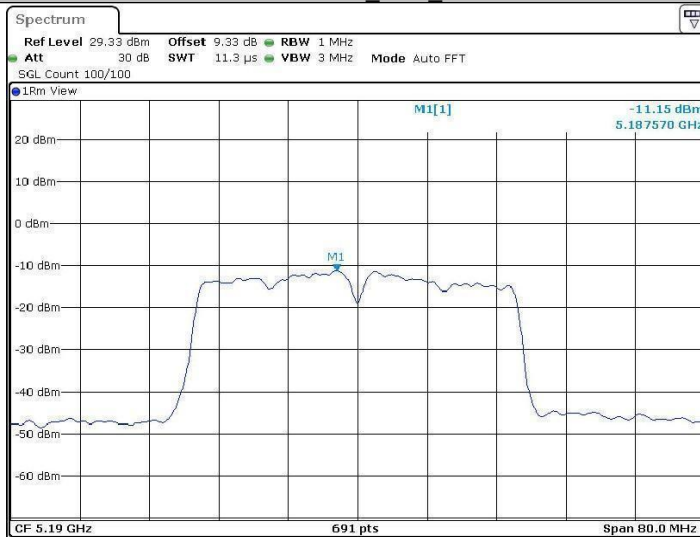
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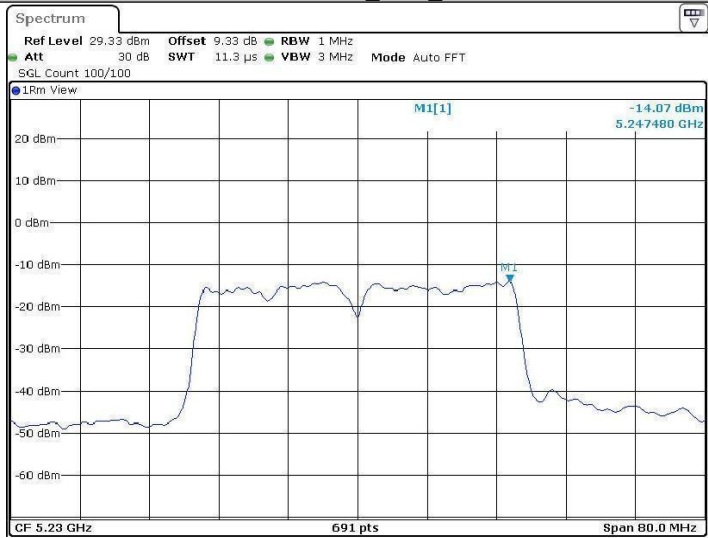
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

