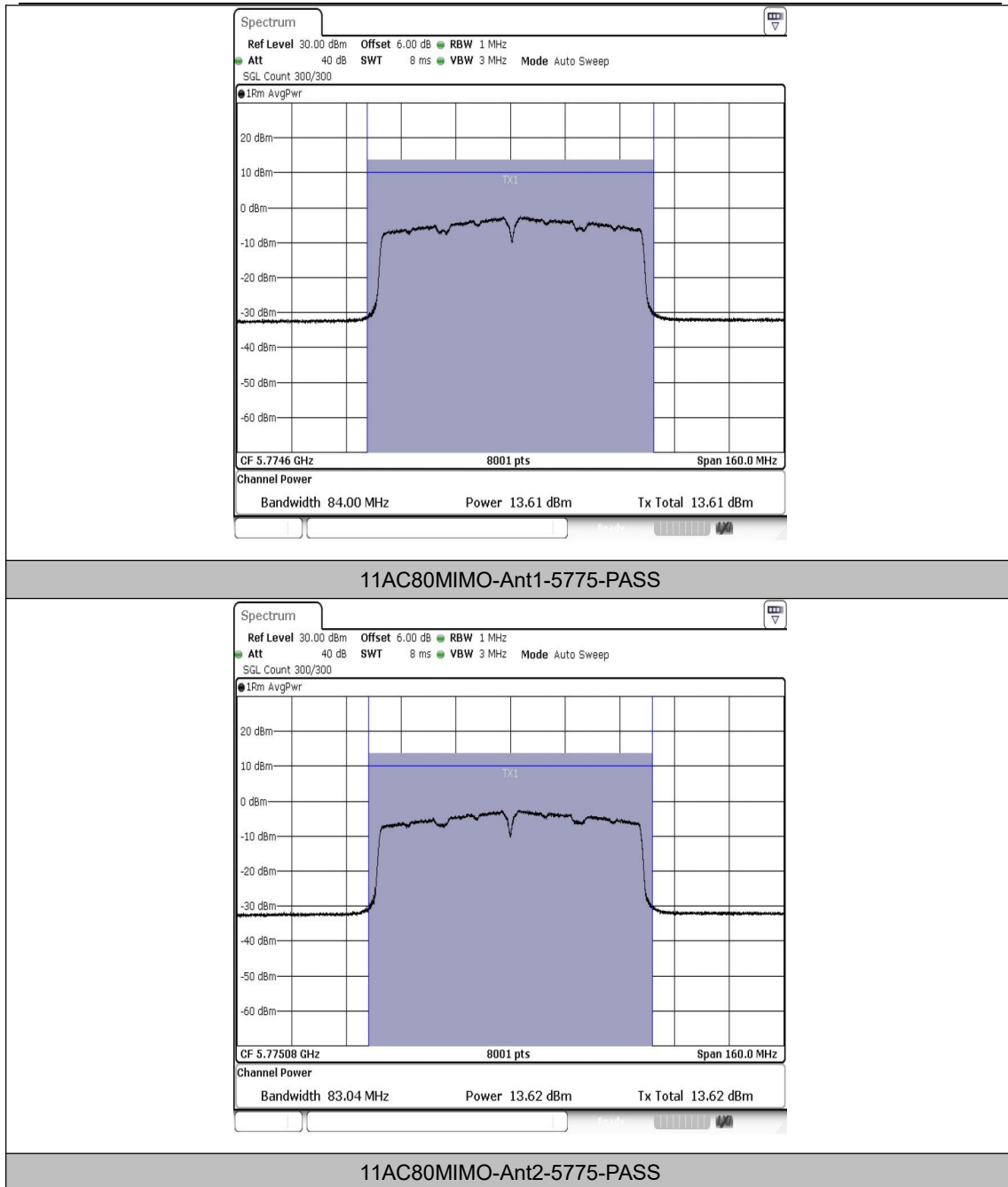




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Appendix D: Maximum Power Spectral Density

Test Result B1

Test Mode	Antenna	Frequency [MHz]	Reading Result[dBm/MHz]	DC Factor [dB]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.11	0.00	4.11	≤11.00	PASS
11A	Ant2	5180	4.46	0.00	4.46	≤11.00	PASS
11A	Ant1	5200	4.28	0.00	4.28	≤11.00	PASS
11A	Ant2	5200	4.44	0.00	4.44	≤11.00	PASS
11A	Ant1	5240	3.91	0.00	3.91	≤11.00	PASS
11A	Ant2	5240	4.03	0.00	4.03	≤11.00	PASS
11N20MI MO	Ant1	5180	3.95	0.00	3.95	≤11.00	PASS
11N20MI MO	Ant2	5180	3.72	0.00	3.72	≤11.00	PASS
11N20MI MO	total	5180	---	---	6.85	≤11.00	PASS
11N20MI MO	Ant1	5200	4.15	0.00	4.15	≤11.00	PASS
11N20MI MO	Ant2	5200	3.95	0.00	3.95	≤11.00	PASS
11N20MI MO	total	5200	---	---	7.06	≤11.00	PASS
11N20MI MO	Ant1	5240	3.68	0.00	3.68	≤11.00	PASS
11N20MI MO	Ant2	5240	3.66	0.00	3.66	≤11.00	PASS
11N20MI MO	total	5240	---	---	6.68	≤11.00	PASS
11N40MI MO	Ant1	5190	1.29	0.00	1.29	≤11.00	PASS
11N40MI MO	Ant2	5190	1.16	0.00	1.16	≤11.00	PASS
11N40MI MO	total	5190	---	---	4.24	≤11.00	PASS
11N40MI MO	Ant1	5230	1.1	0.00	1.10	≤11.00	PASS
11N40MI MO	Ant2	5230	1.38	0.00	1.38	≤11.00	PASS
11N40MI MO	total	5230	---	---	4.25	≤11.00	PASS

11AC20MI MO	Ant1	5180	4.31	0.00	4.31	≤11.00	PASS
11AC20MI MO	Ant2	5180	3.95	0.00	3.95	≤11.00	PASS
11AC20MI MO	total	5180	---	---	7.14	≤11.00	PASS
11AC20MI MO	Ant1	5200	4.44	0.00	4.44	≤11.00	PASS
11AC20MI MO	Ant2	5200	3.99	0.00	3.99	≤11.00	PASS
11AC20MI MO	total	5200	---	---	7.23	≤11.00	PASS
11AC20MI MO	Ant1	5240	3.63	0.00	3.63	≤11.00	PASS
11AC20MI MO	Ant2	5240	3.8	0.00	3.80	≤11.00	PASS
11AC20MI MO	total	5240	---	---	6.73	≤11.00	PASS
11AC40MI MO	Ant1	5190	1.3	0.00	1.30	≤11.00	PASS
11AC40MI MO	Ant2	5190	0.89	0.00	0.89	≤11.00	PASS
11AC40MI MO	total	5190	---	---	4.11	≤11.00	PASS
11AC40MI MO	Ant1	5230	1.75	0.00	1.75	≤11.00	PASS
11AC40MI MO	Ant2	5230	0.98	0.00	0.98	≤11.00	PASS
11AC40MI MO	total	5230	---	---	4.39	≤11.00	PASS
11AC80MI MO	Ant1	5210	-2.96	0.00	-2.96	≤11.00	PASS
11AC80MI MO	Ant2	5210	-2.95	0.00	-2.95	≤11.00	PASS
11AC80MI MO	total	5210	---	---	0.06	≤11.00	PASS

Note: 1.The Duty Cycle Factor and cable loss and RBW Factor are compensated in the graph.

2.As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=5.18<6dBi,
so limit=11dBm/MHz.

3.MIMO= $10 * \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

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Test Result B4

Test Mode	Antenna	Frequency [MHz]	Reading Result[dBm/500KHz]	DC Factor [dB]	Result [dBm/500 KHz]	Limit[dBm /500KHz]	Verdict
11A	Ant1	5745	0.92	0.00	0.92	≤30.00	PASS
11A	Ant2	5745	0.6	0.00	0.60	≤30.00	PASS
11A	Ant1	5785	0.8	0.00	0.80	≤30.00	PASS
11A	Ant2	5785	0.87	0.00	0.87	≤30.00	PASS
11A	Ant1	5825	0.93	0.00	0.93	≤30.00	PASS
11A	Ant2	5825	1.24	0.00	1.24	≤30.00	PASS
11N20MI MO	Ant1	5745	0.5	0.00	0.50	≤30.00	PASS
11N20MI MO	Ant2	5745	0.08	0.00	0.08	≤30.00	PASS
11N20MI MO	total	5745	---	---	3.01	≤30.00	PASS
11N20MI MO	Ant1	5785	-0.01	0.00	-0.01	≤30.00	PASS
11N20MI MO	Ant2	5785	0.66	0.00	0.66	≤30.00	PASS
11N20MI MO	total	5785	---	---	3.01	≤30.00	PASS
11N20MI MO	Ant1	5825	0.63	0.00	0.63	≤30.00	PASS
11N20MI MO	Ant2	5825	0.72	0.00	0.72	≤30.00	PASS
11N20MI MO	total	5825	---	---	3.01	≤30.00	PASS
11N40MI MO	Ant1	5755	-2.23	0.00	-2.23	≤30.00	PASS
11N40MI MO	Ant2	5755	-2.01	0.00	-2.01	≤30.00	PASS
11N40MI MO	total	5755	---	---	3.01	≤30.00	PASS
11N40MI MO	Ant1	5795	-2	0.00	-2.00	≤30.00	PASS
11N40MI MO	Ant2	5795	-1.42	0.00	-1.42	≤30.00	PASS
11N40MI MO	total	5795	---	---	3.01	≤30.00	PASS
11AC20MI	Ant1	5745	0.99	0.00	0.99	≤30.00	PASS

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MO							
11AC20MI MO	Ant2	5745	0.87	0.00	0.87	≤30.00	PASS
11AC20MI MO	total	5745	---	---	3.01	≤30.00	PASS
11AC20MI MO	Ant1	5785	0.42	0.00	0.42	≤30.00	PASS
11AC20MI MO	Ant2	5785	0.66	0.00	0.66	≤30.00	PASS
11AC20MI MO	total	5785	---	---	3.01	≤30.00	PASS
11AC20MI MO	Ant1	5825	0.46	0.00	0.46	≤30.00	PASS
11AC20MI MO	Ant2	5825	0.74	0.00	0.74	≤30.00	PASS
11AC20MI MO	total	5825	---	---	3.01	≤30.00	PASS
11AC40MI MO	Ant1	5755	-1.4	0.00	-1.40	≤30.00	PASS
11AC40MI MO	Ant2	5755	-1.95	0.00	-1.95	≤30.00	PASS
11AC40MI MO	total	5755	---	---	3.01	≤30.00	PASS
11AC40MI MO	Ant1	5795	-1.11	0.00	-1.11	≤30.00	PASS
11AC40MI MO	Ant2	5795	-2.14	0.00	-2.14	≤30.00	PASS
11AC40MI MO	total	5795	---	---	3.01	≤30.00	PASS
11AC80MI MO	Ant1	5775	-4.78	0.00	-4.78	≤30.00	PASS
11AC80MI MO	Ant2	5775	-5.52	0.00	-5.52	≤30.00	PASS
11AC80MI MO	total	5775	---	---	3.01	≤30.00	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.

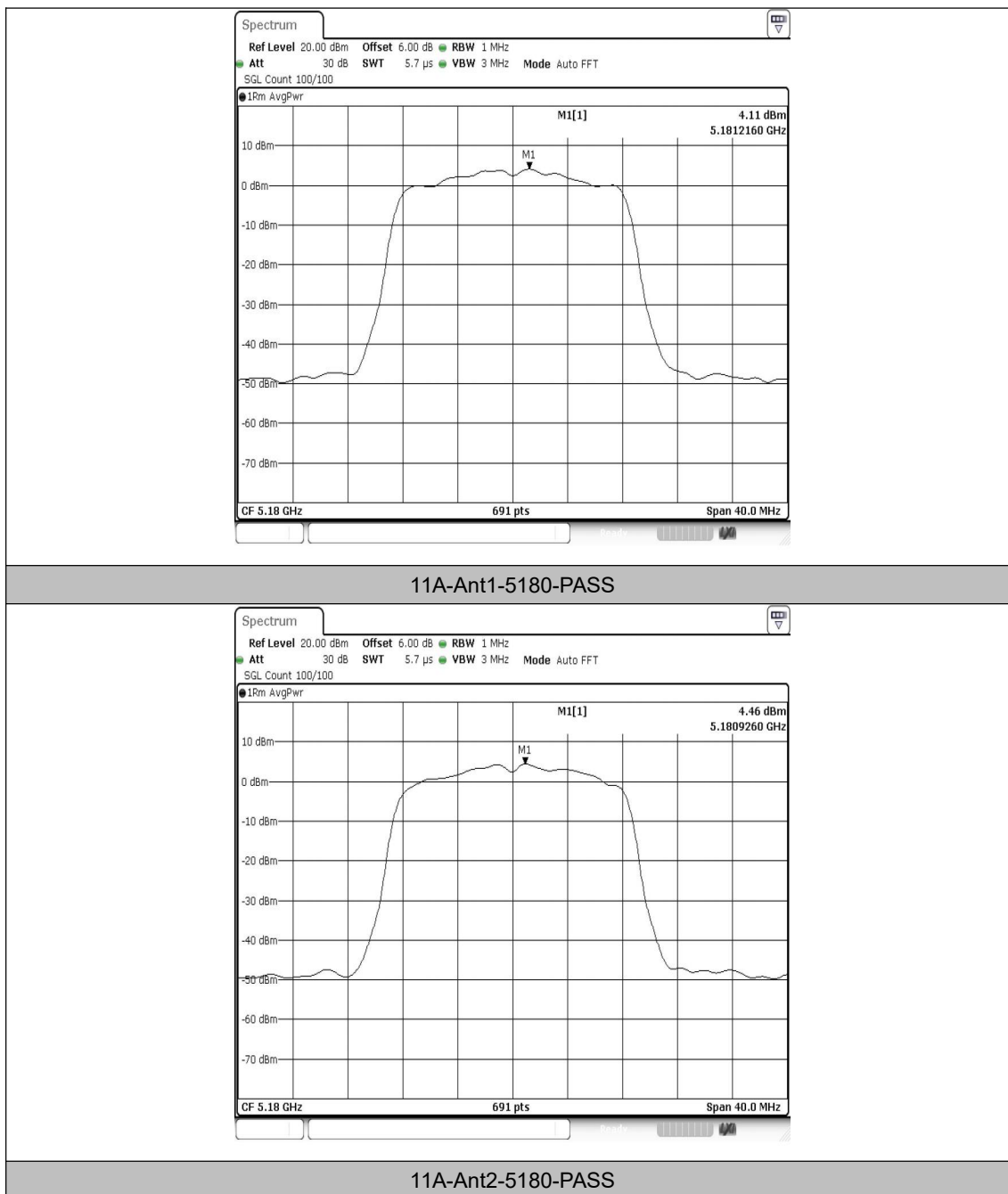
2.As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=5.63<6dBi,
so limit=30dBm/MHz.

3.MIMO= $10 \cdot \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

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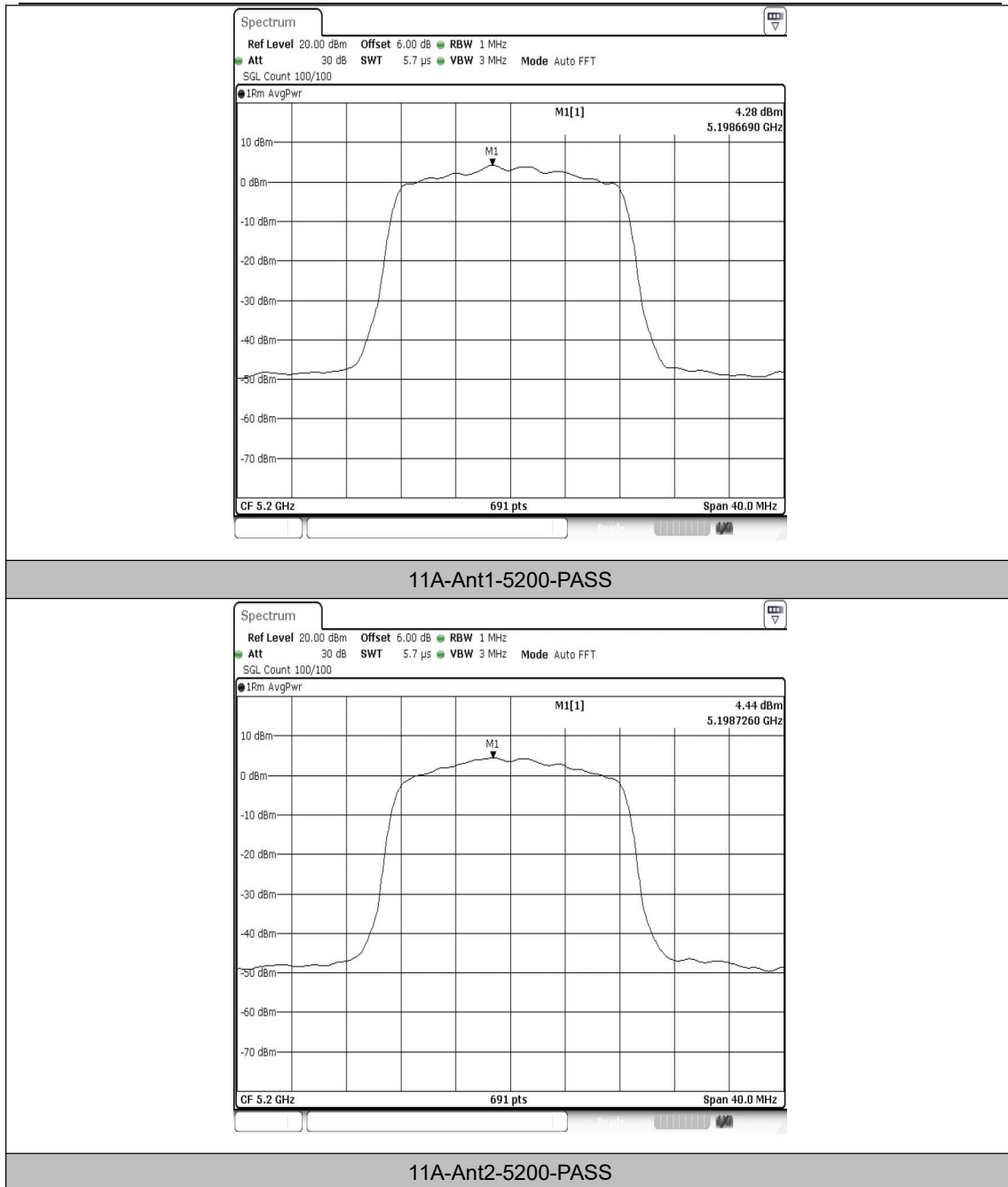
Test Graphs B1



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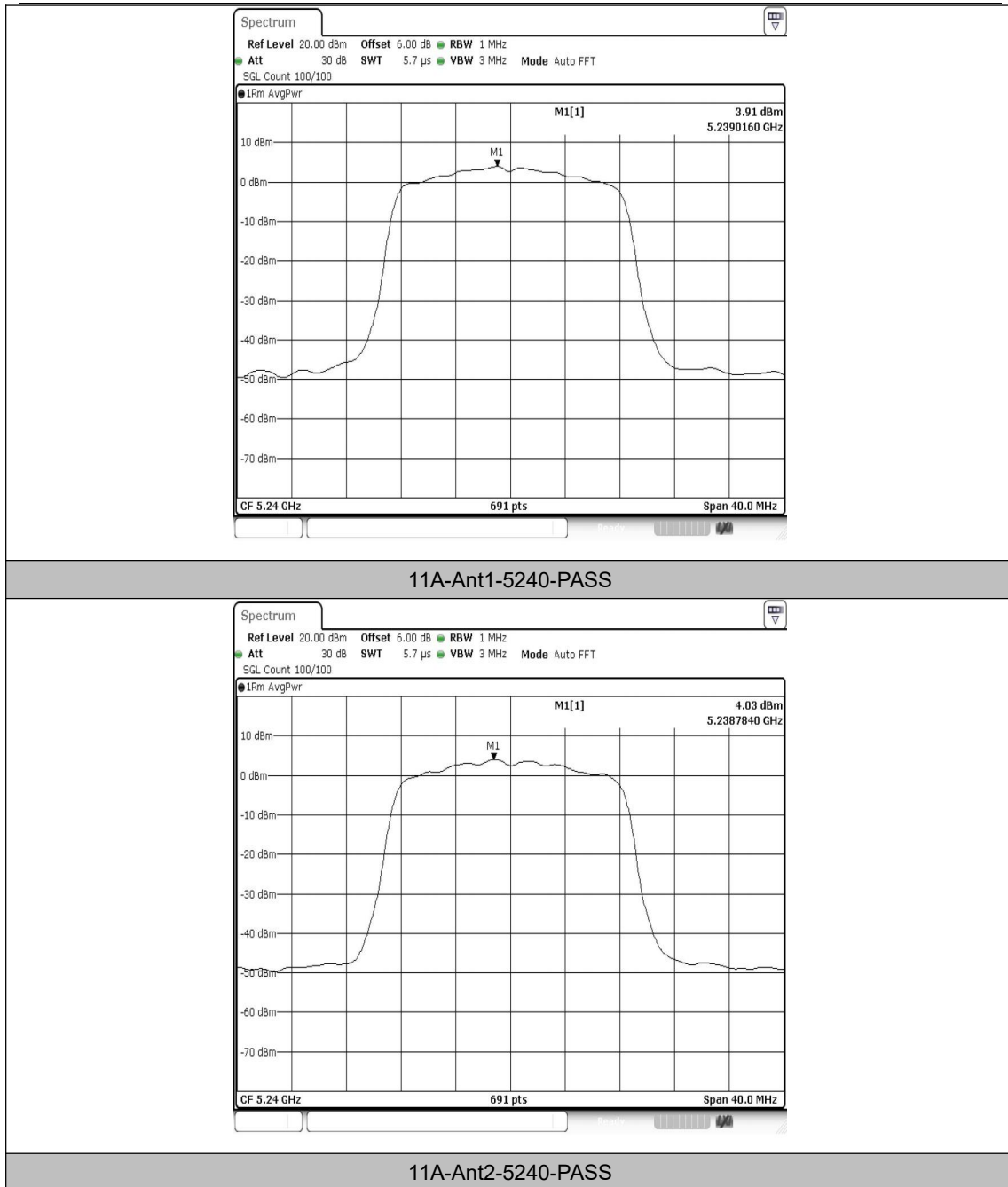
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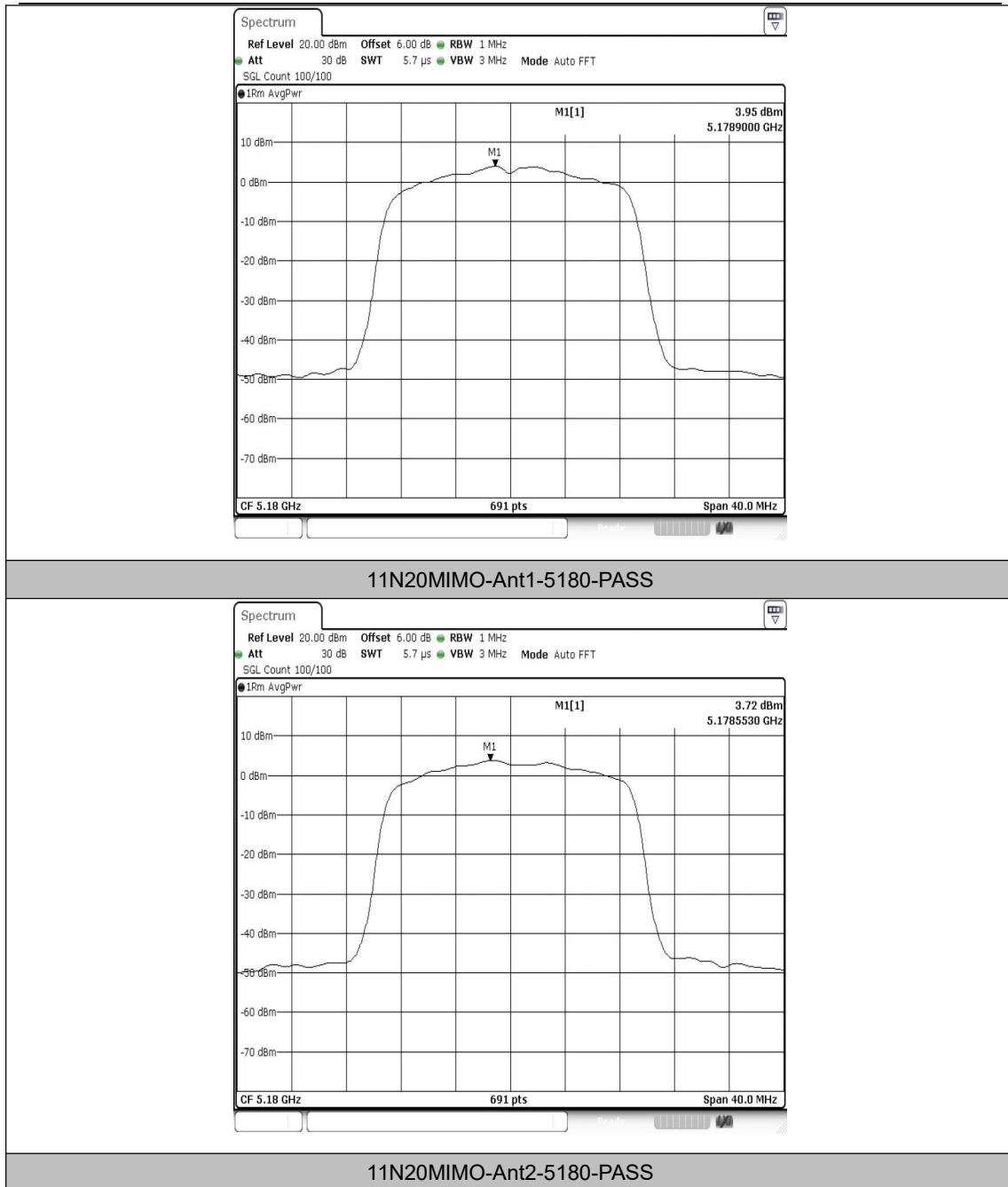
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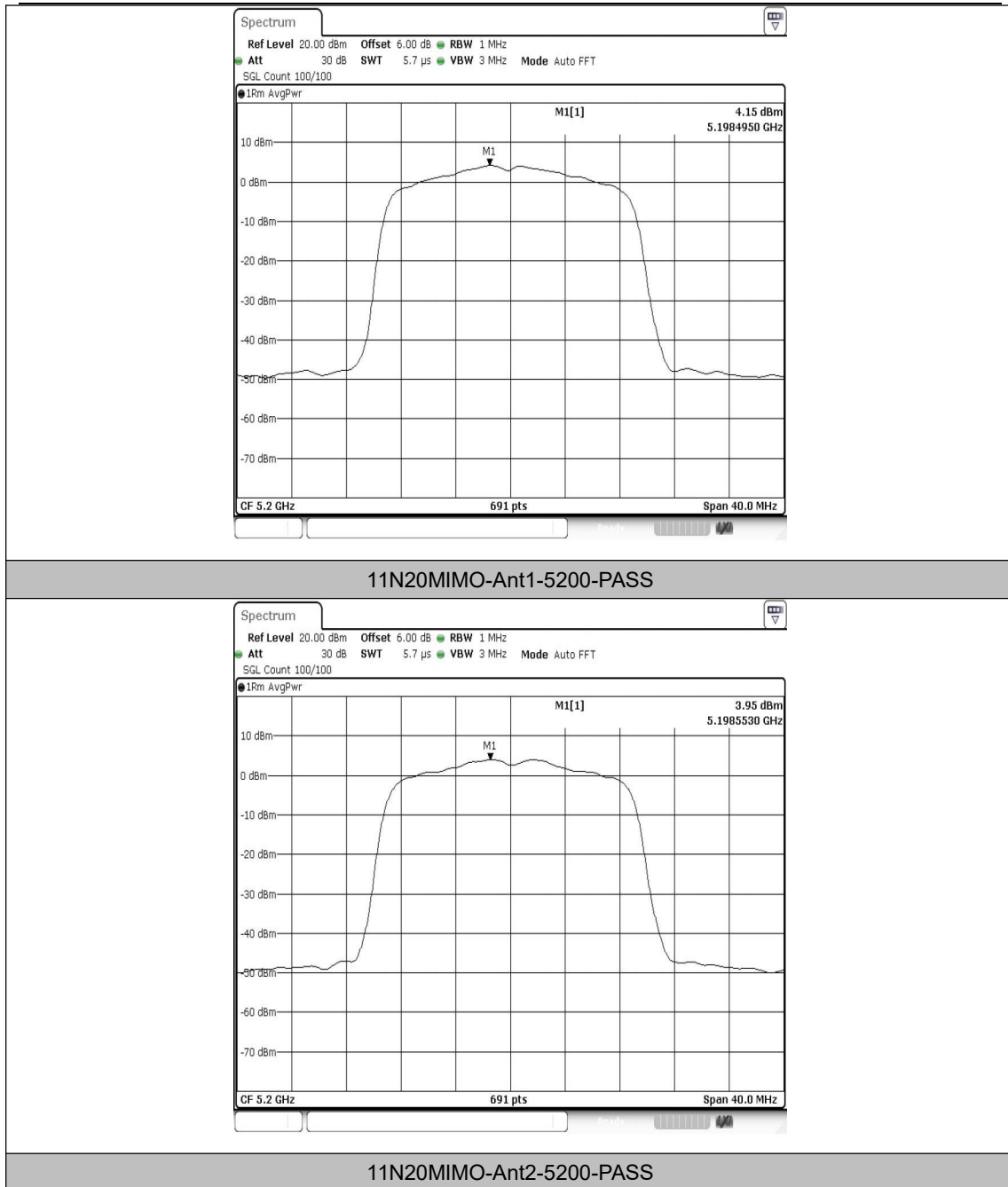
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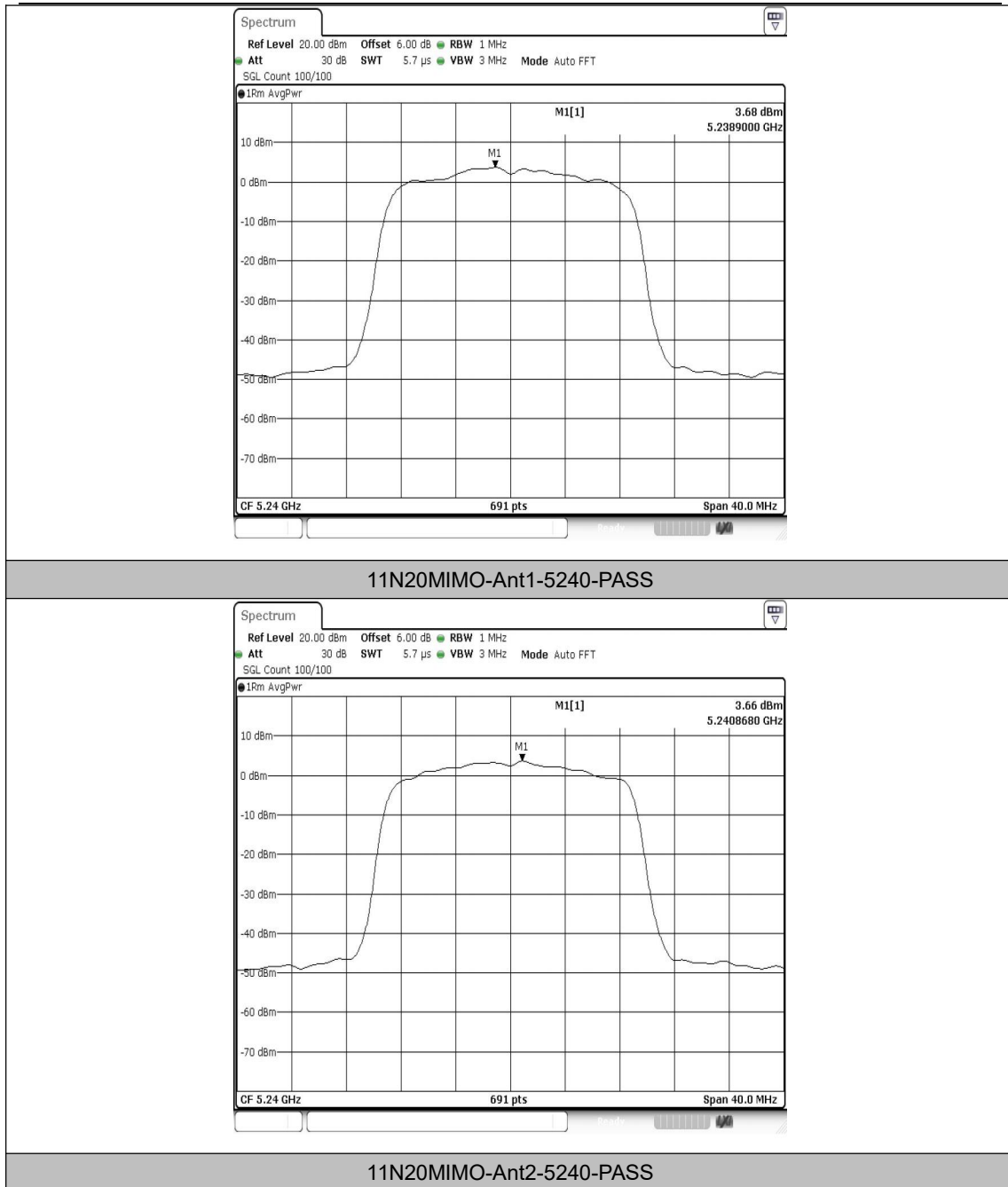
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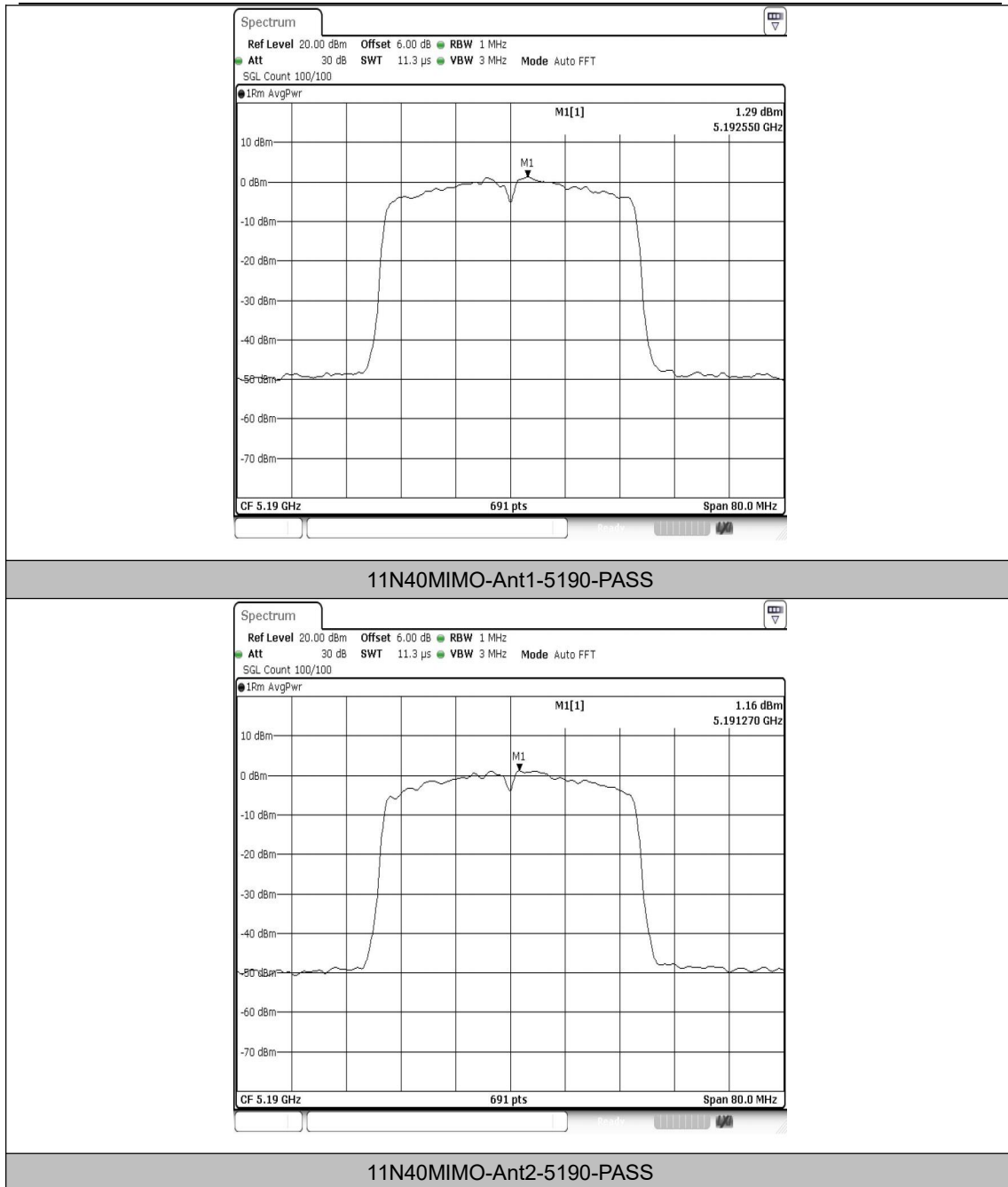
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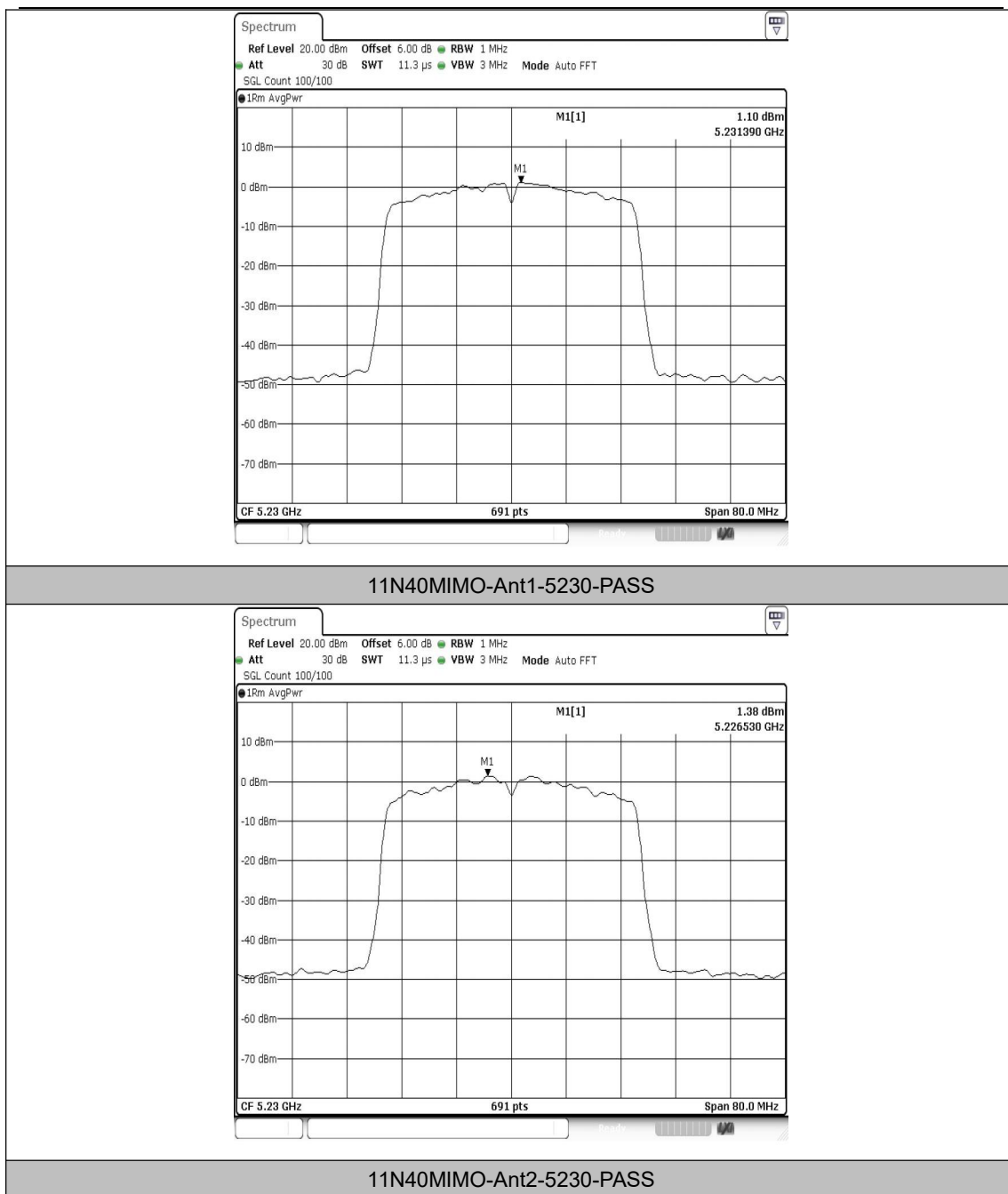
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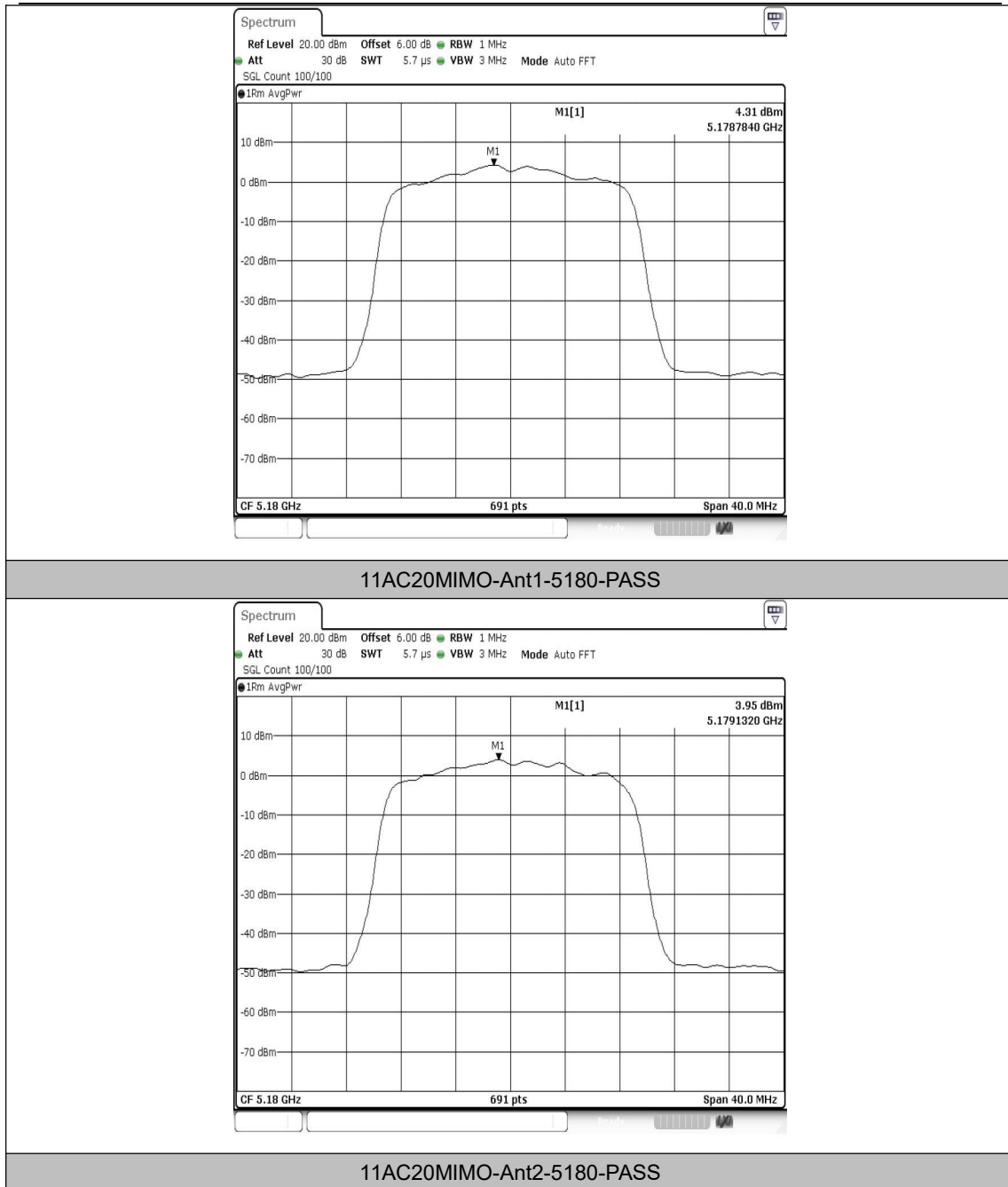


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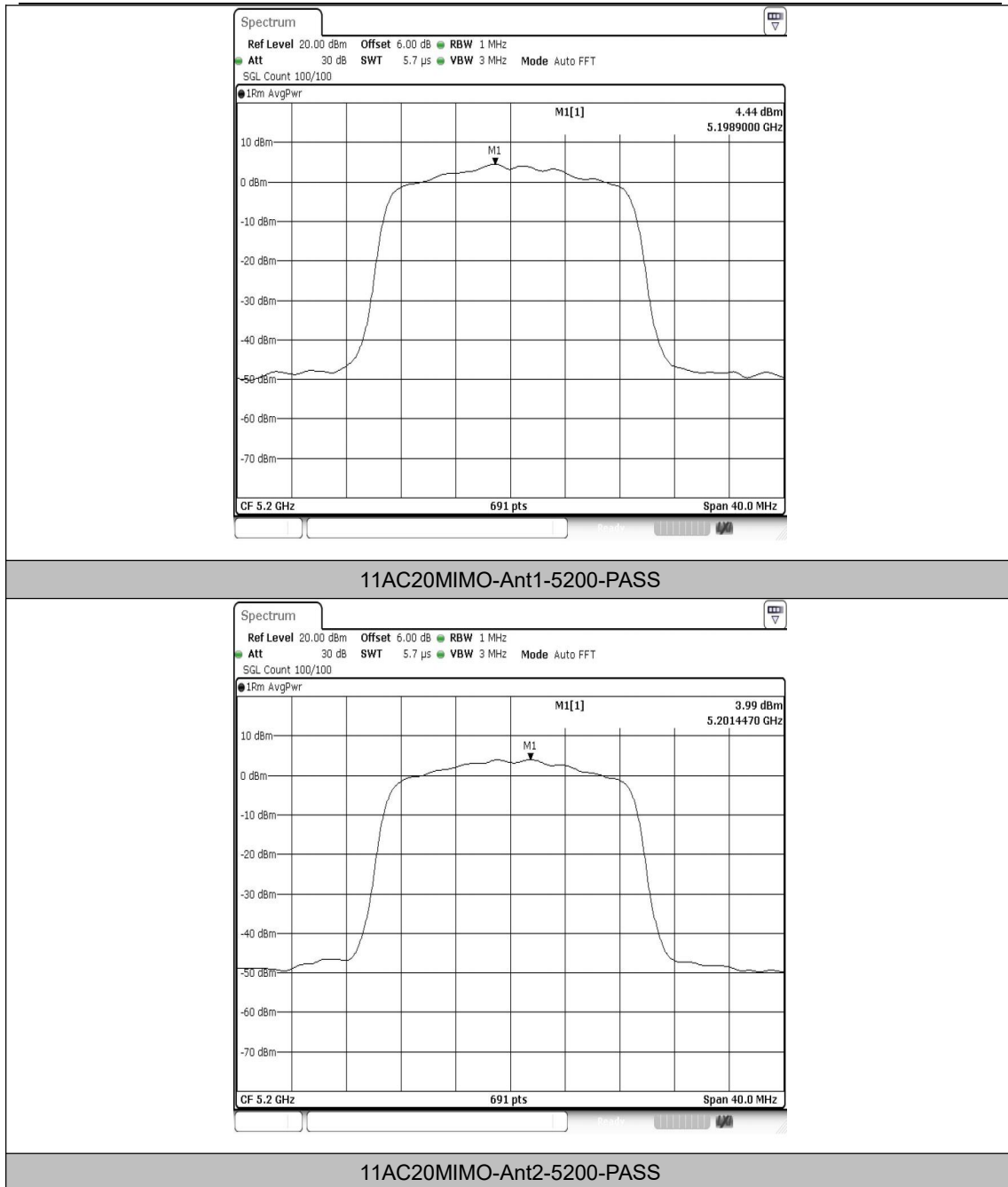
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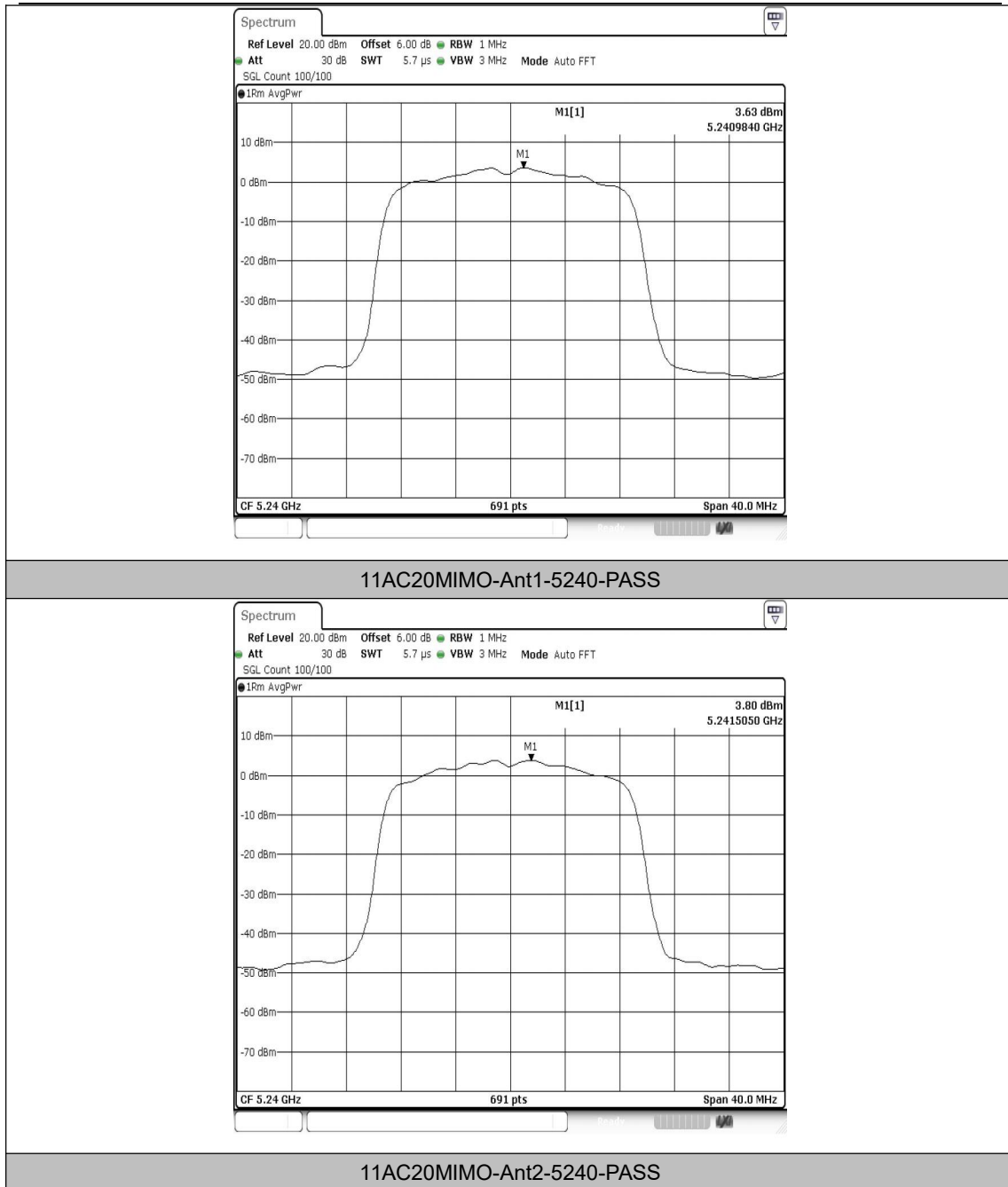


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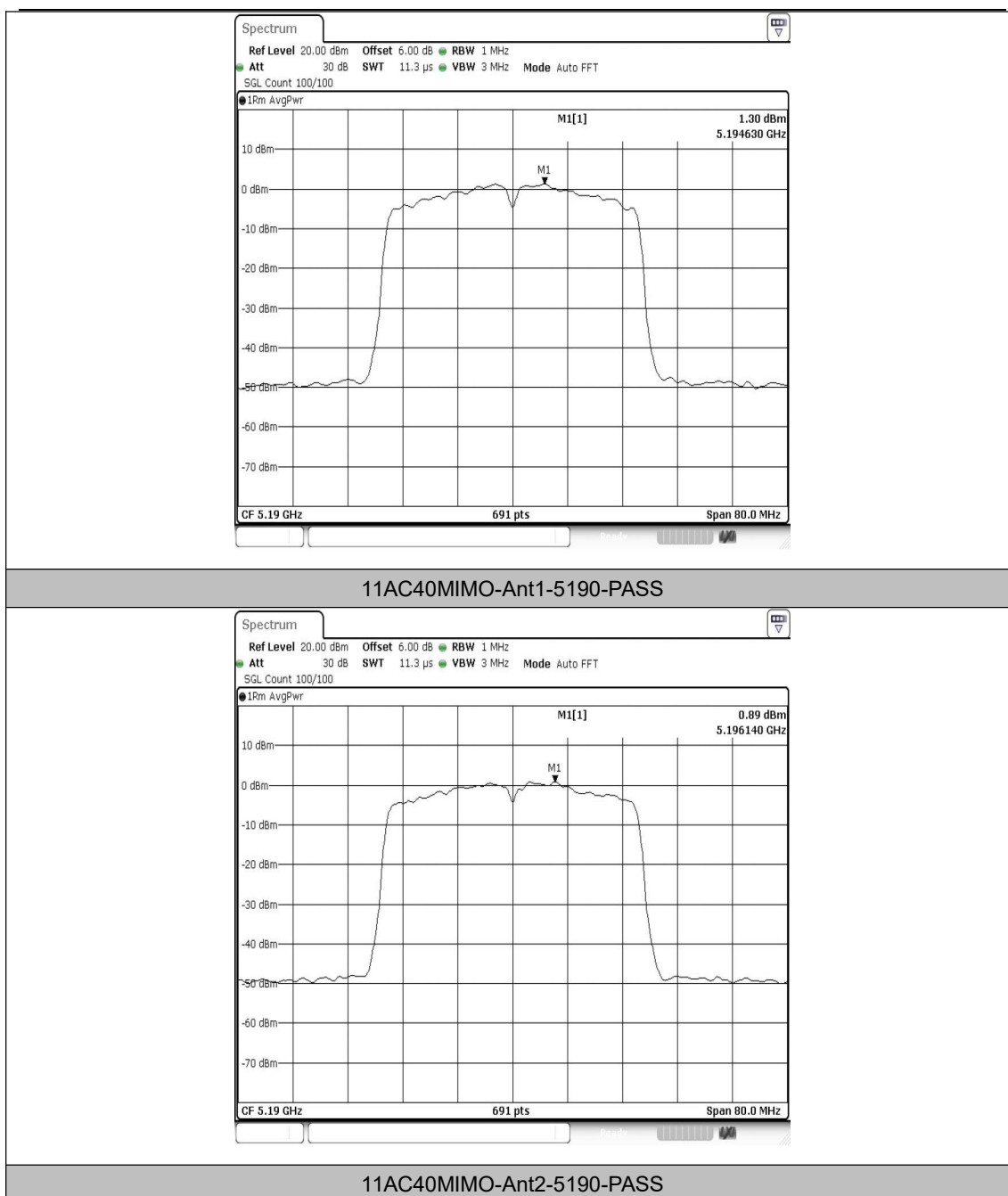


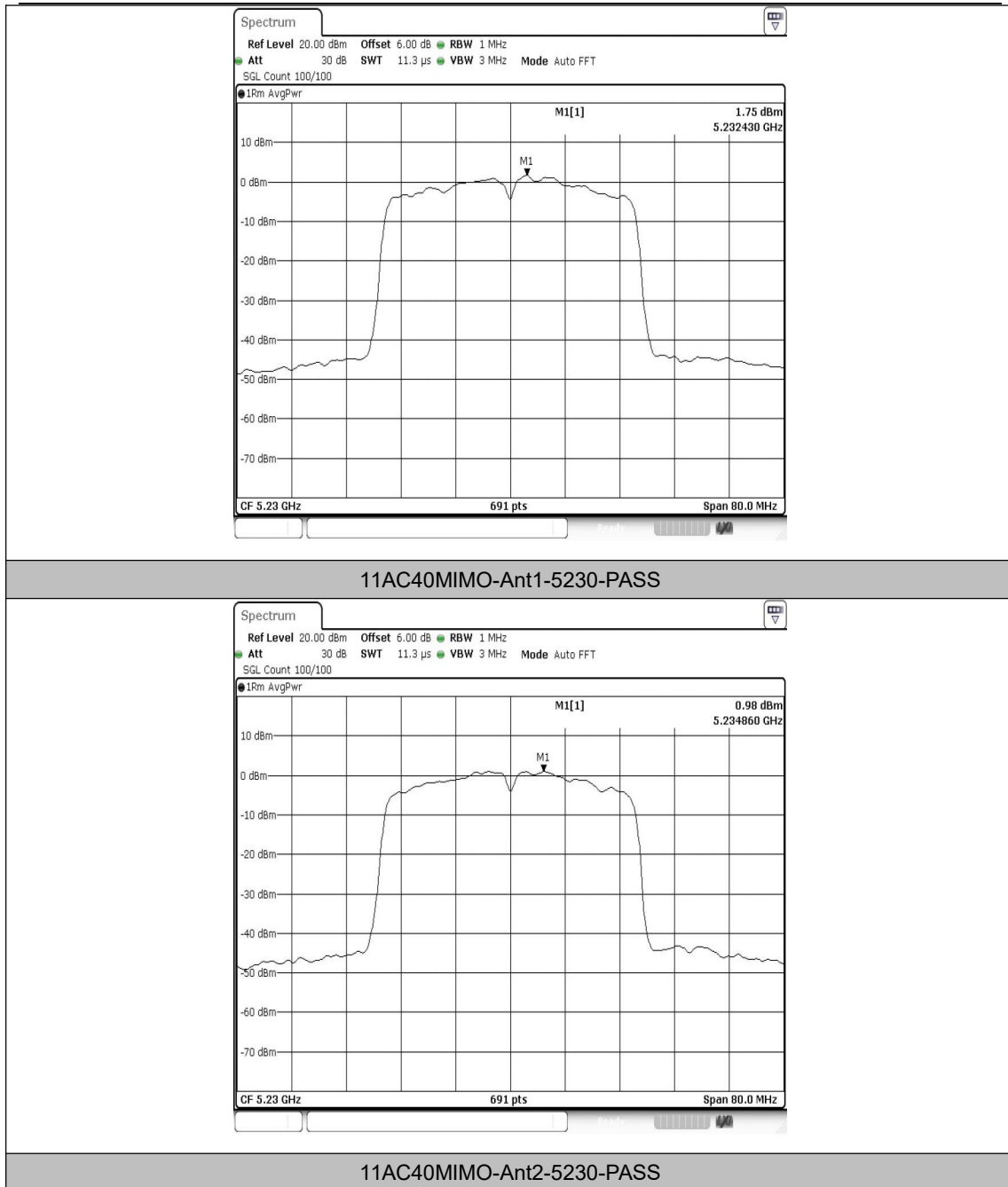


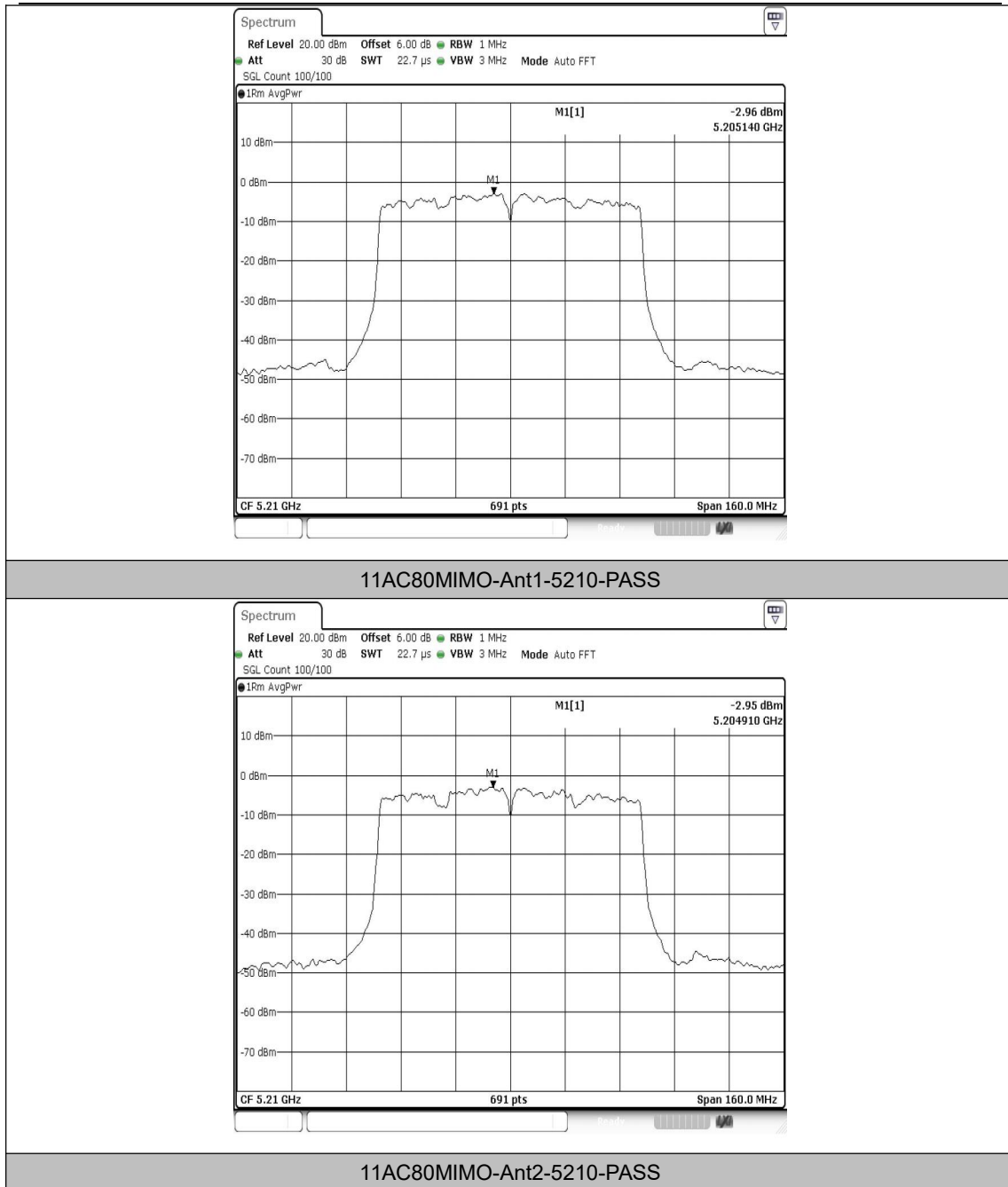
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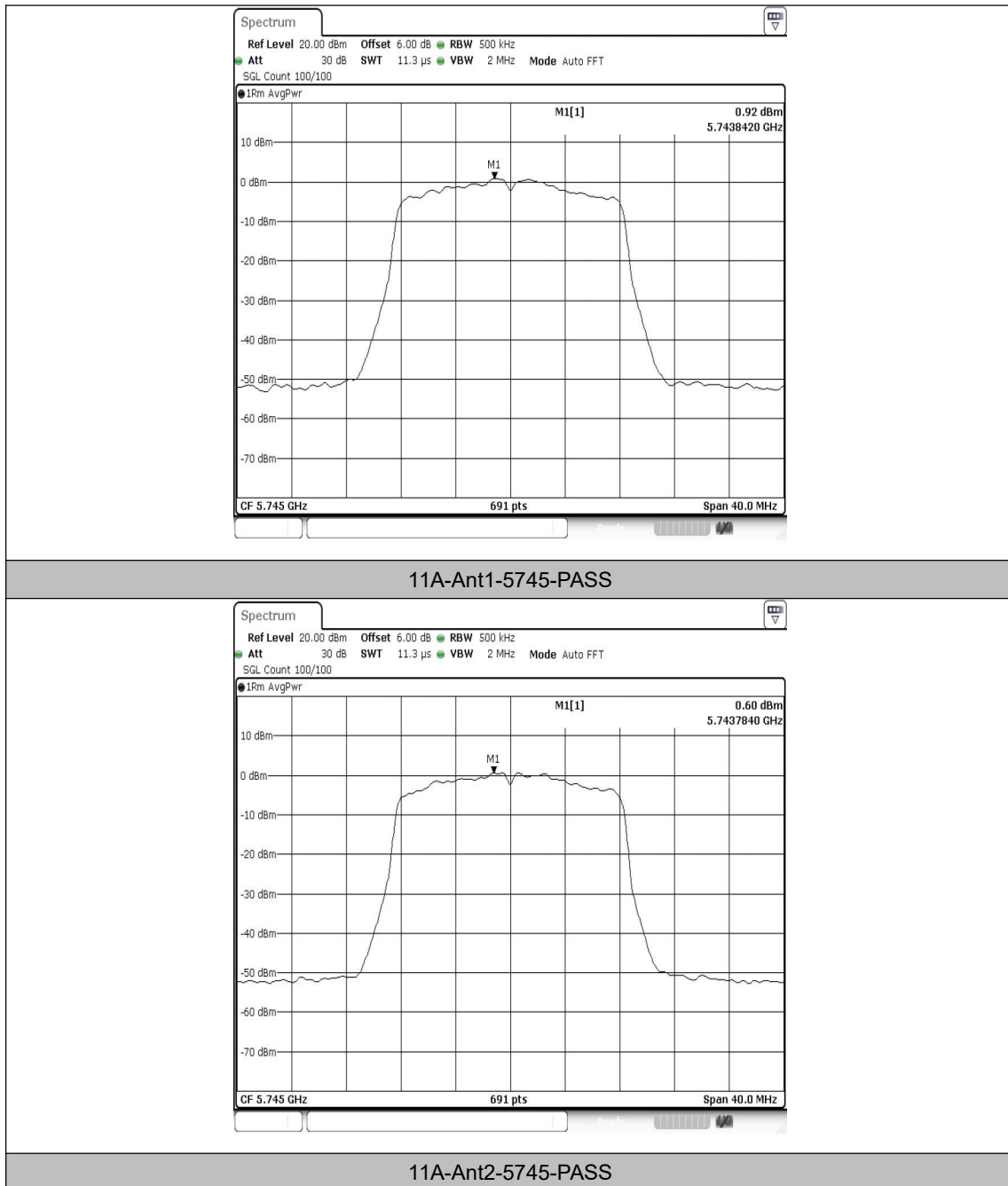
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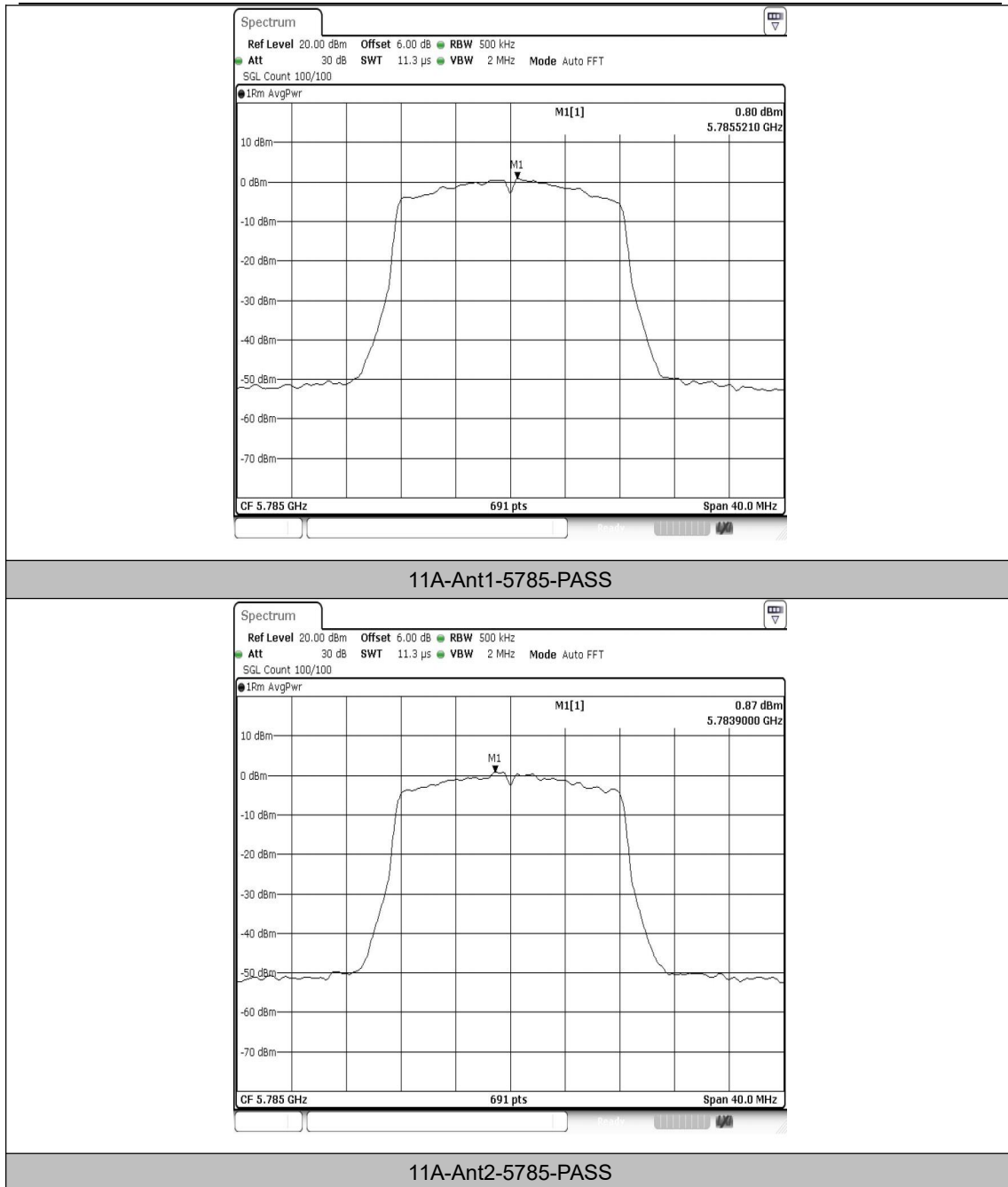
Test Graphs B4



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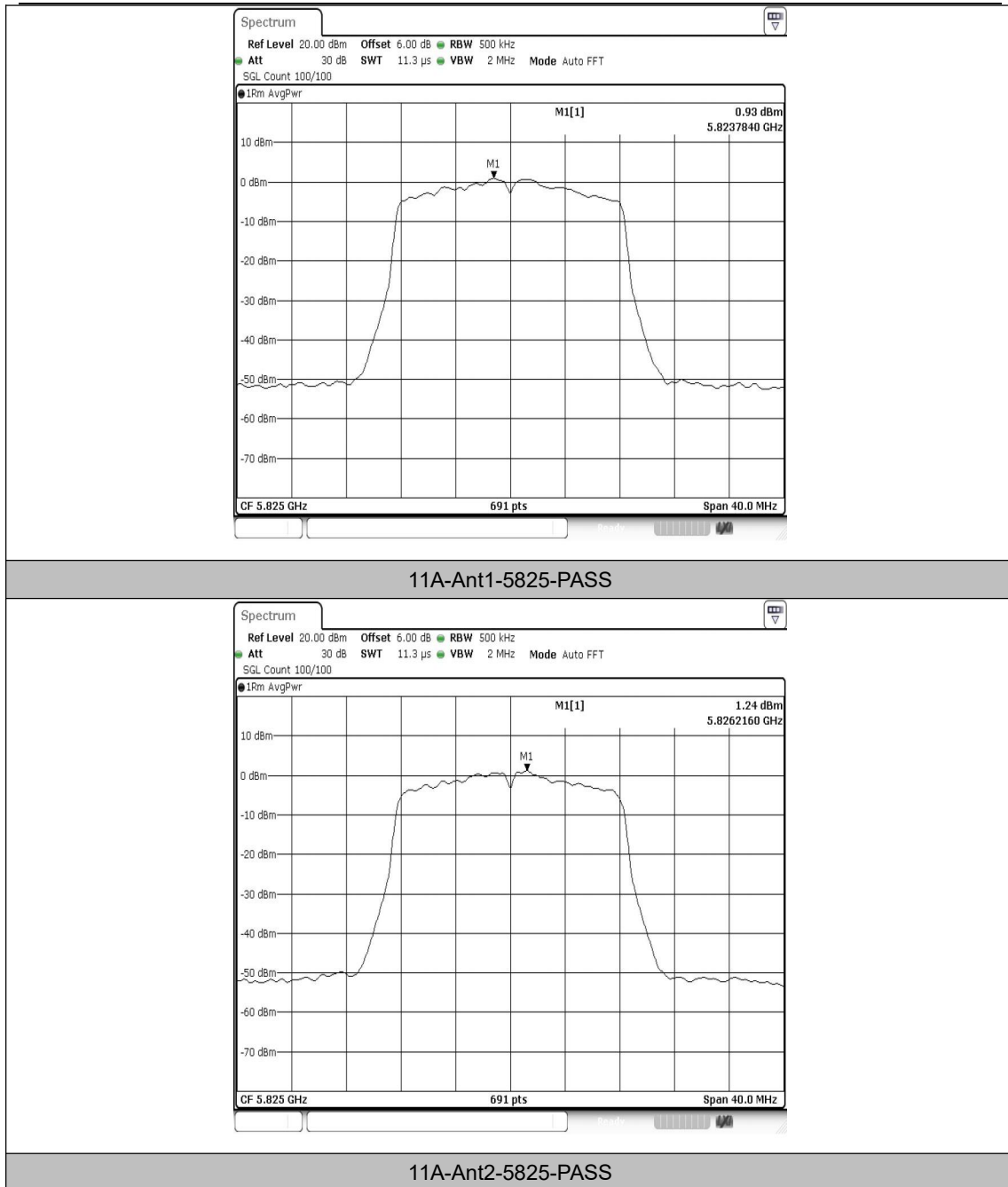
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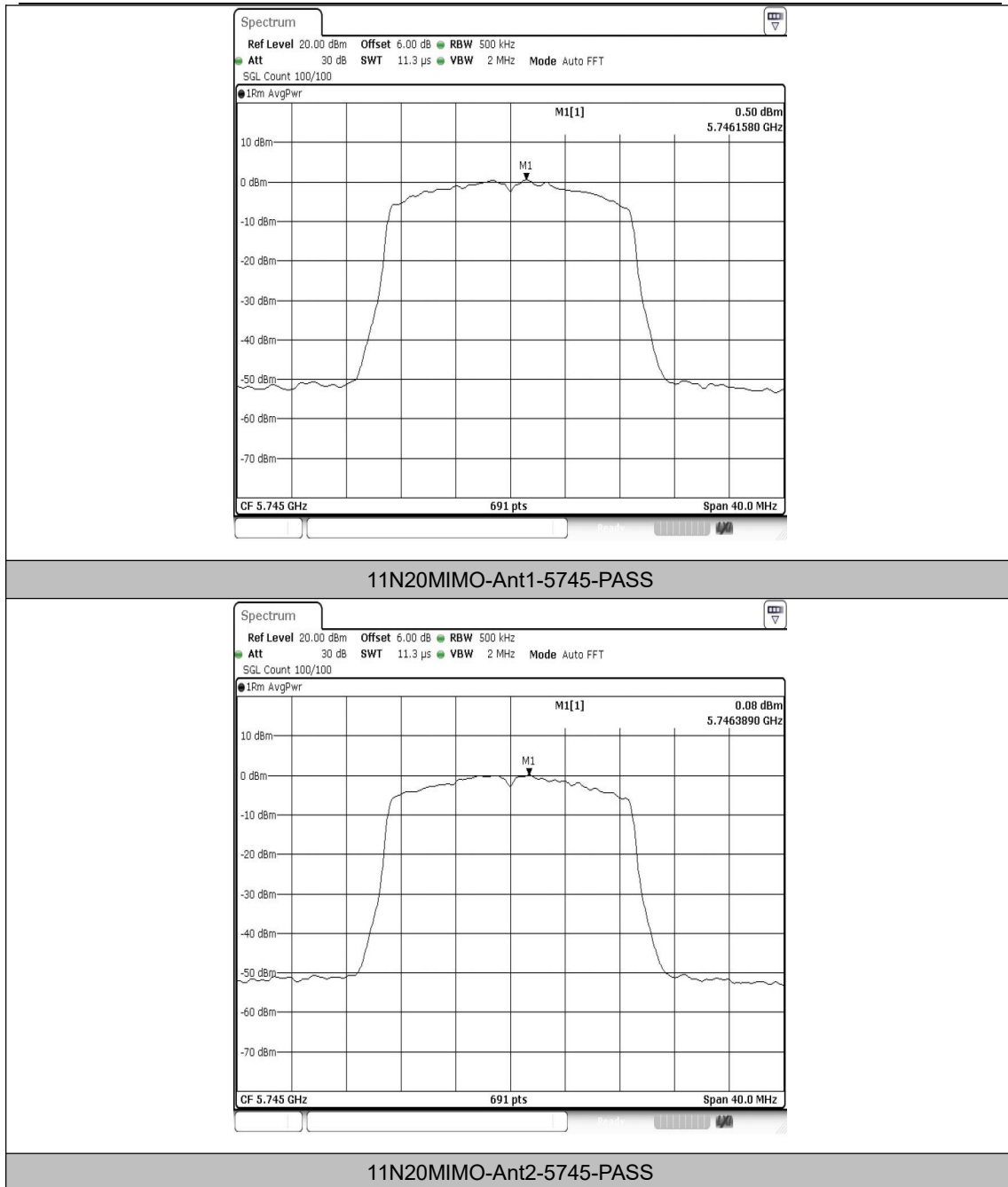
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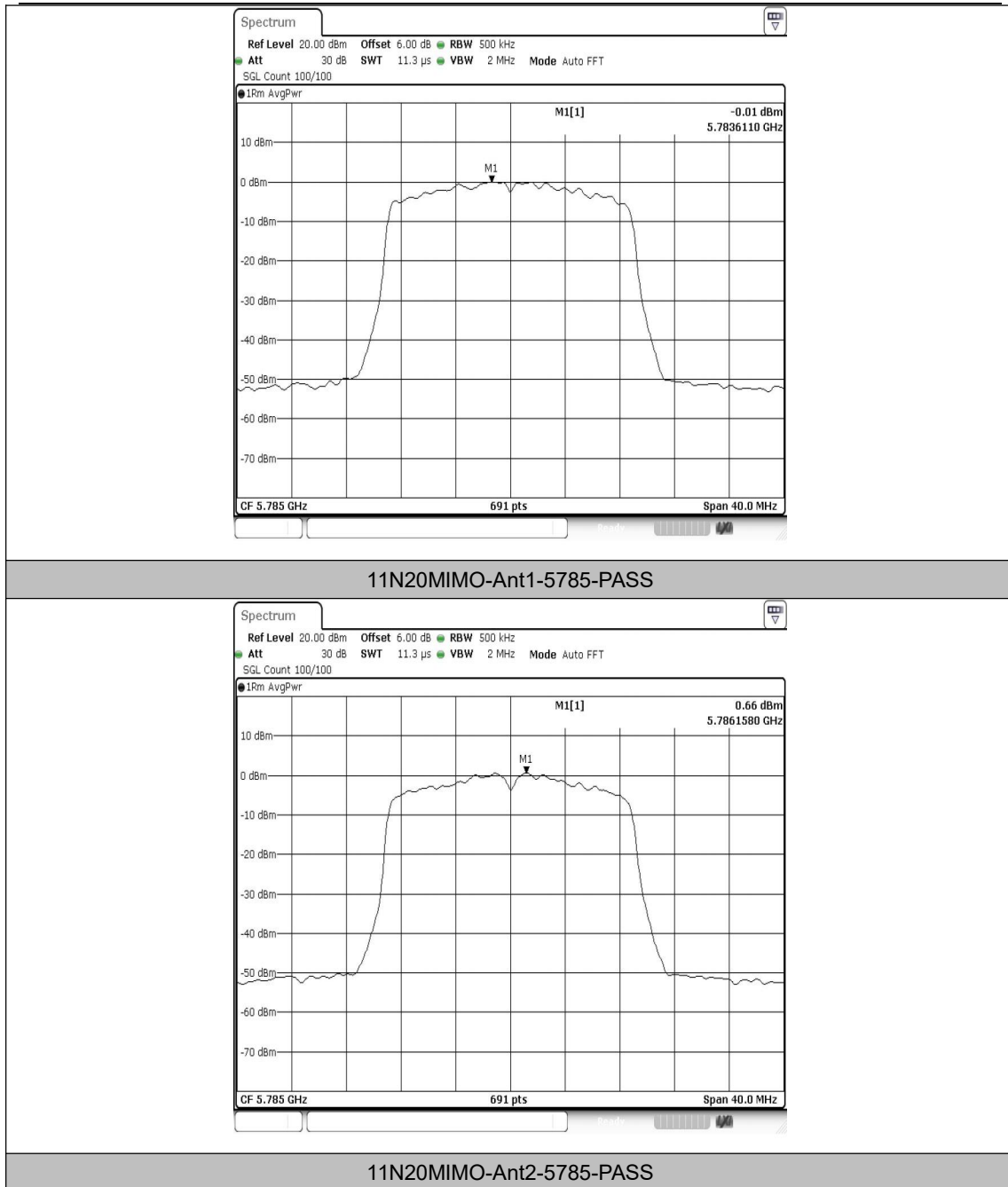
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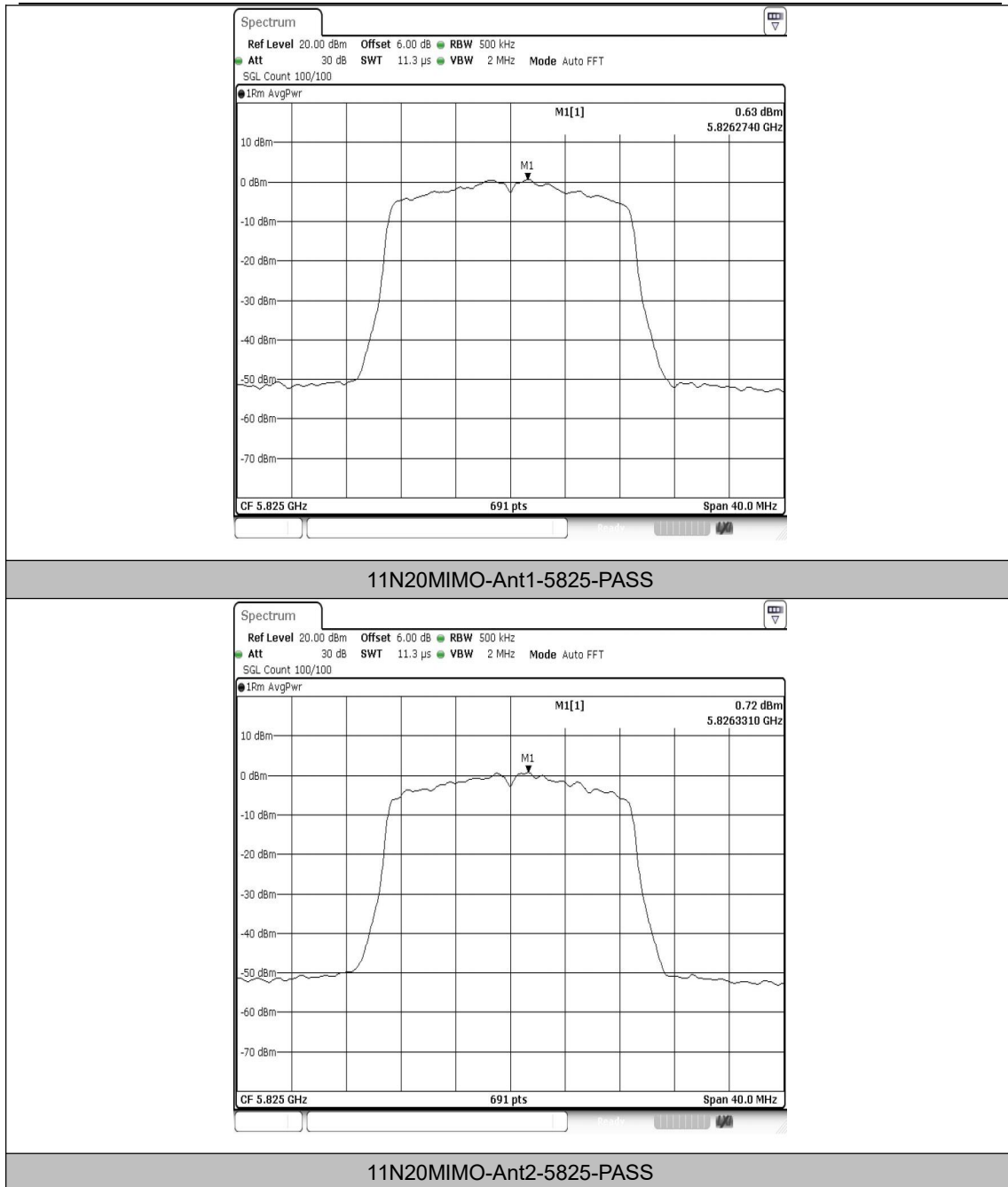
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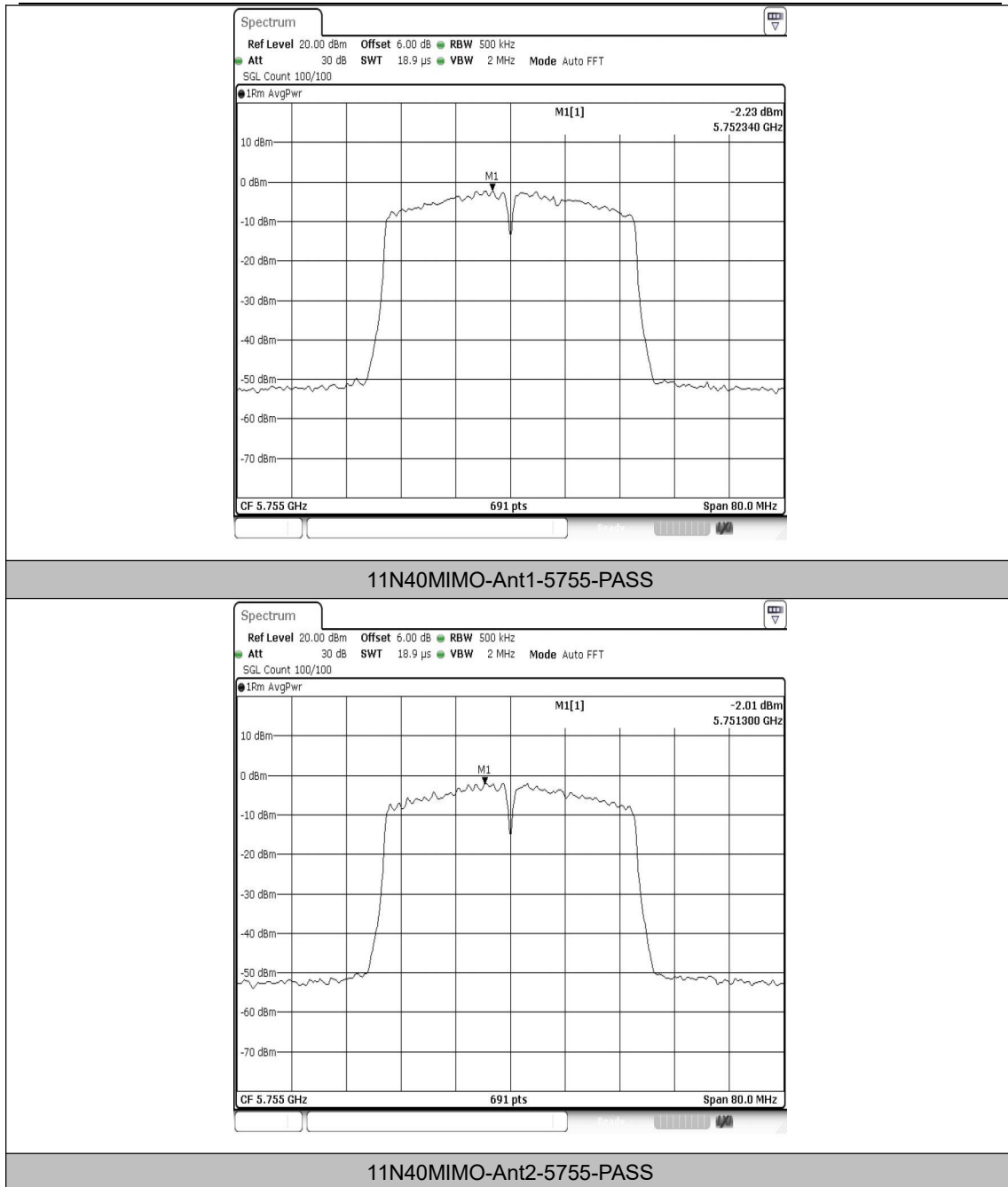


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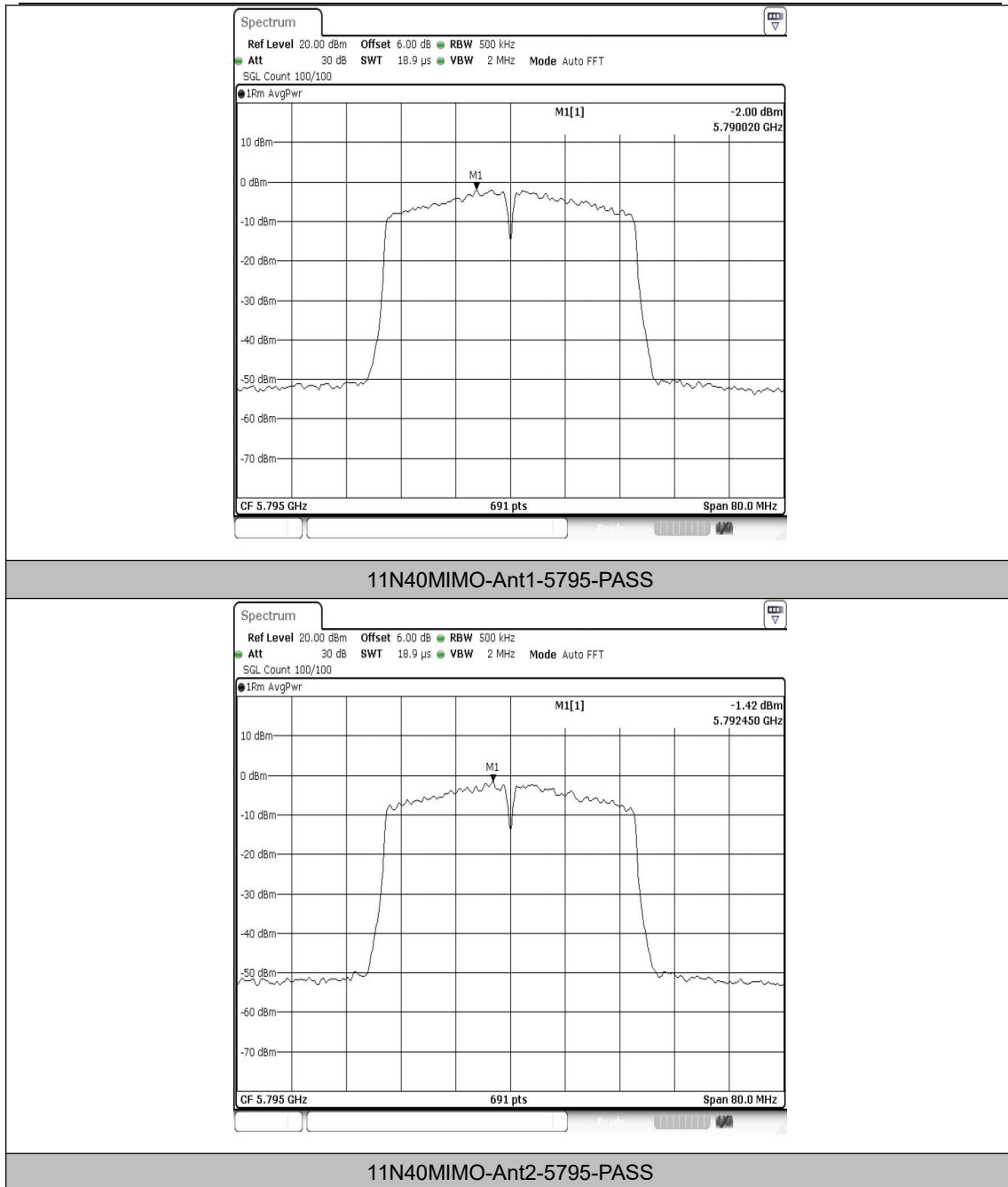




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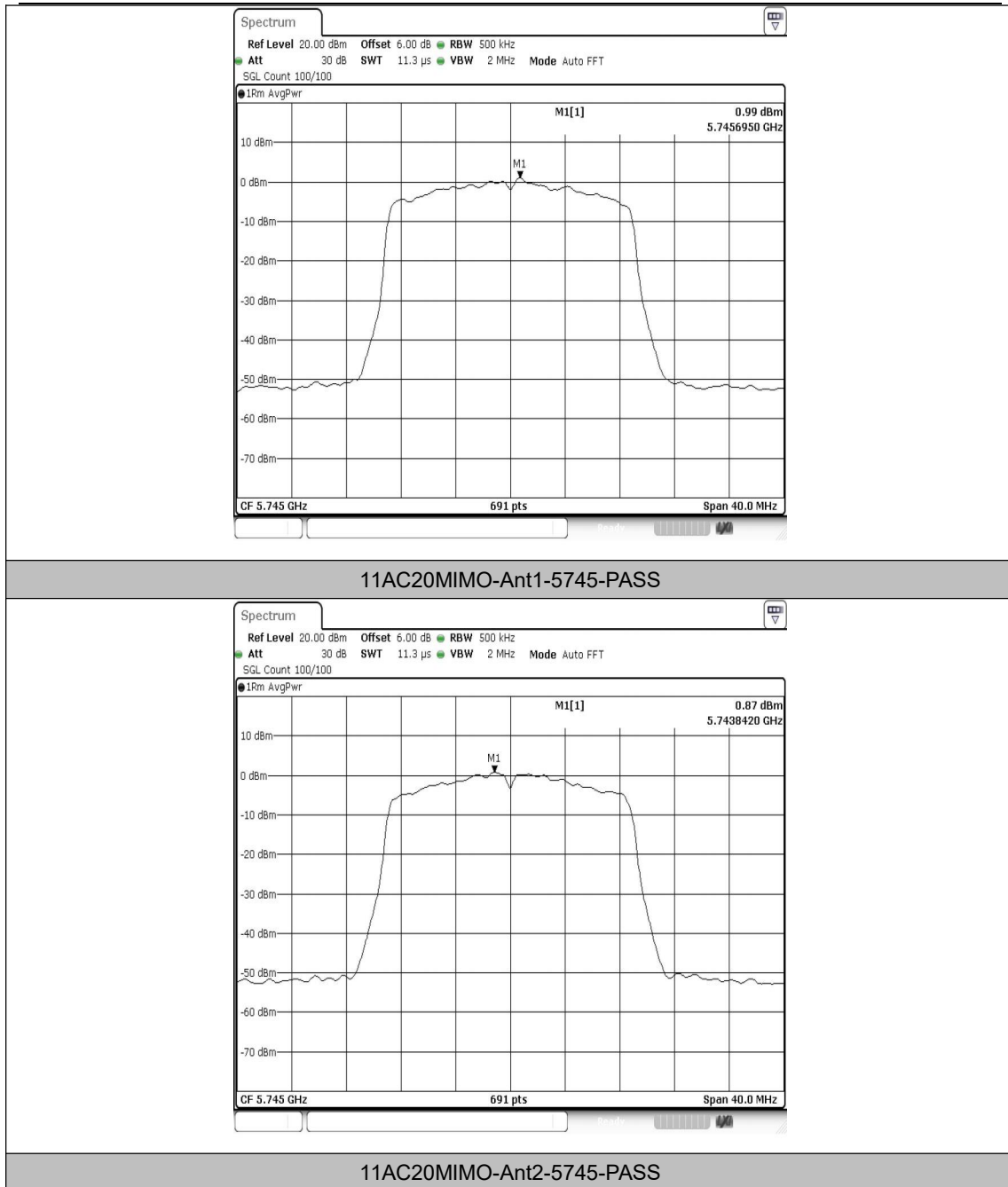
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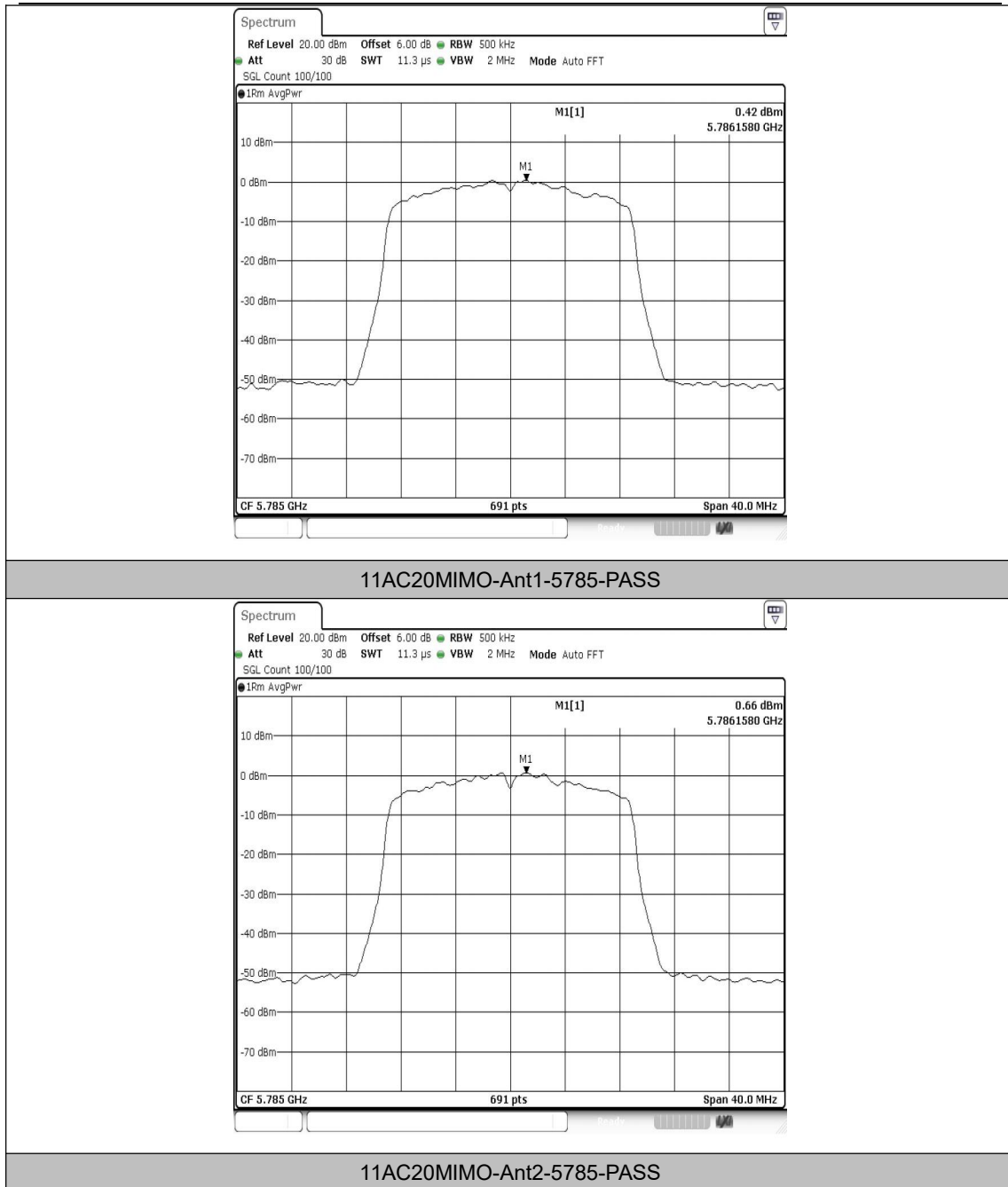
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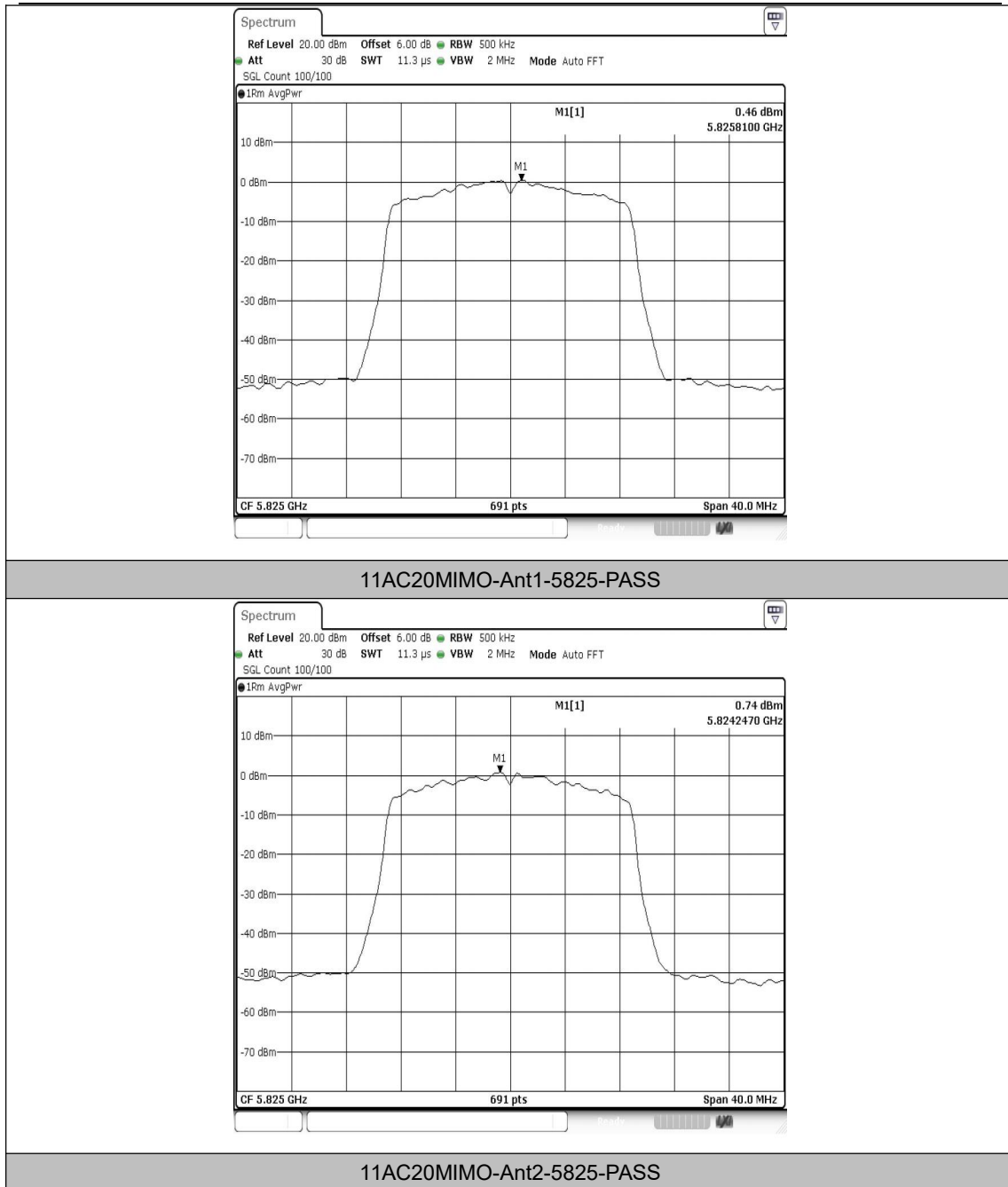
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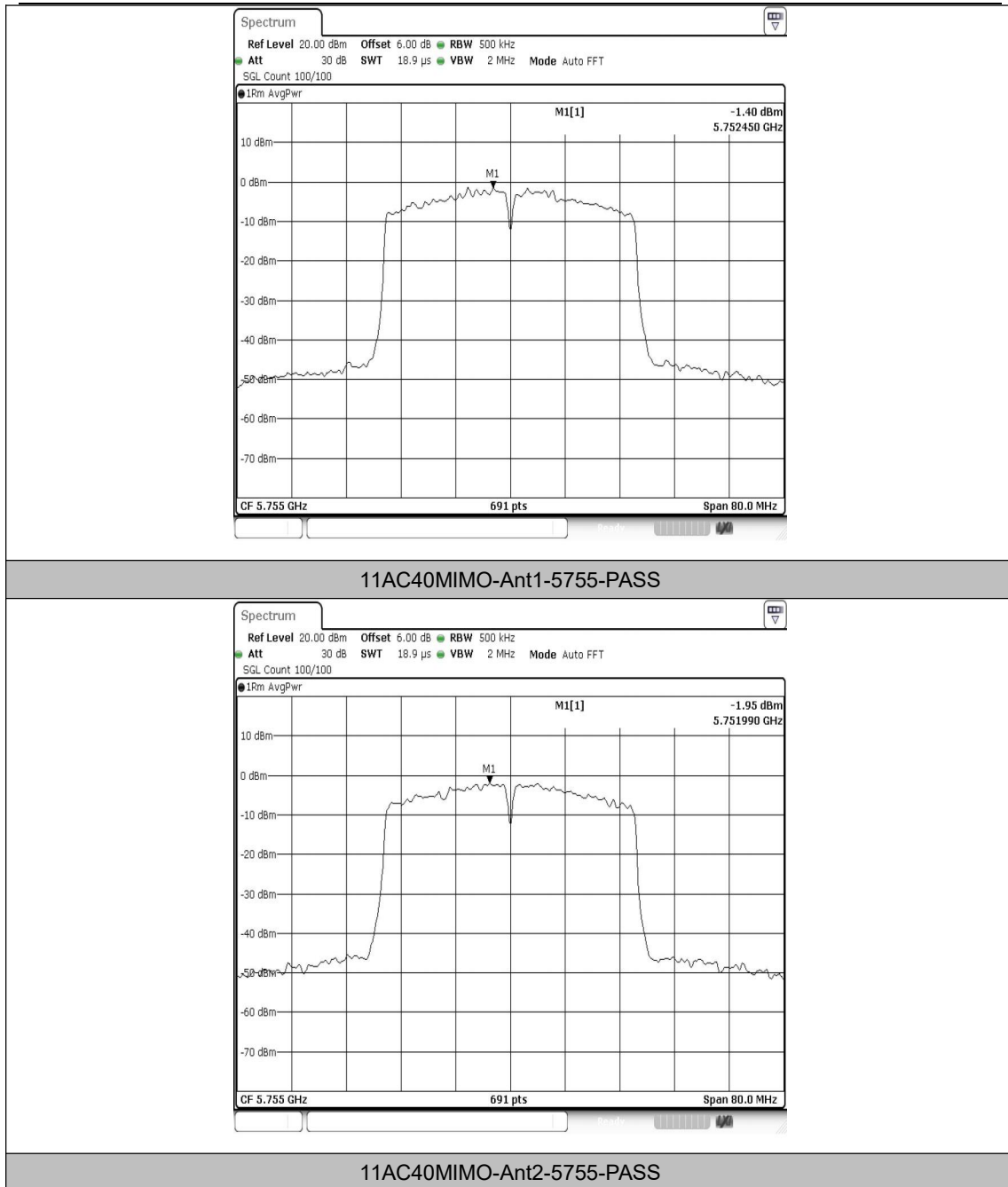
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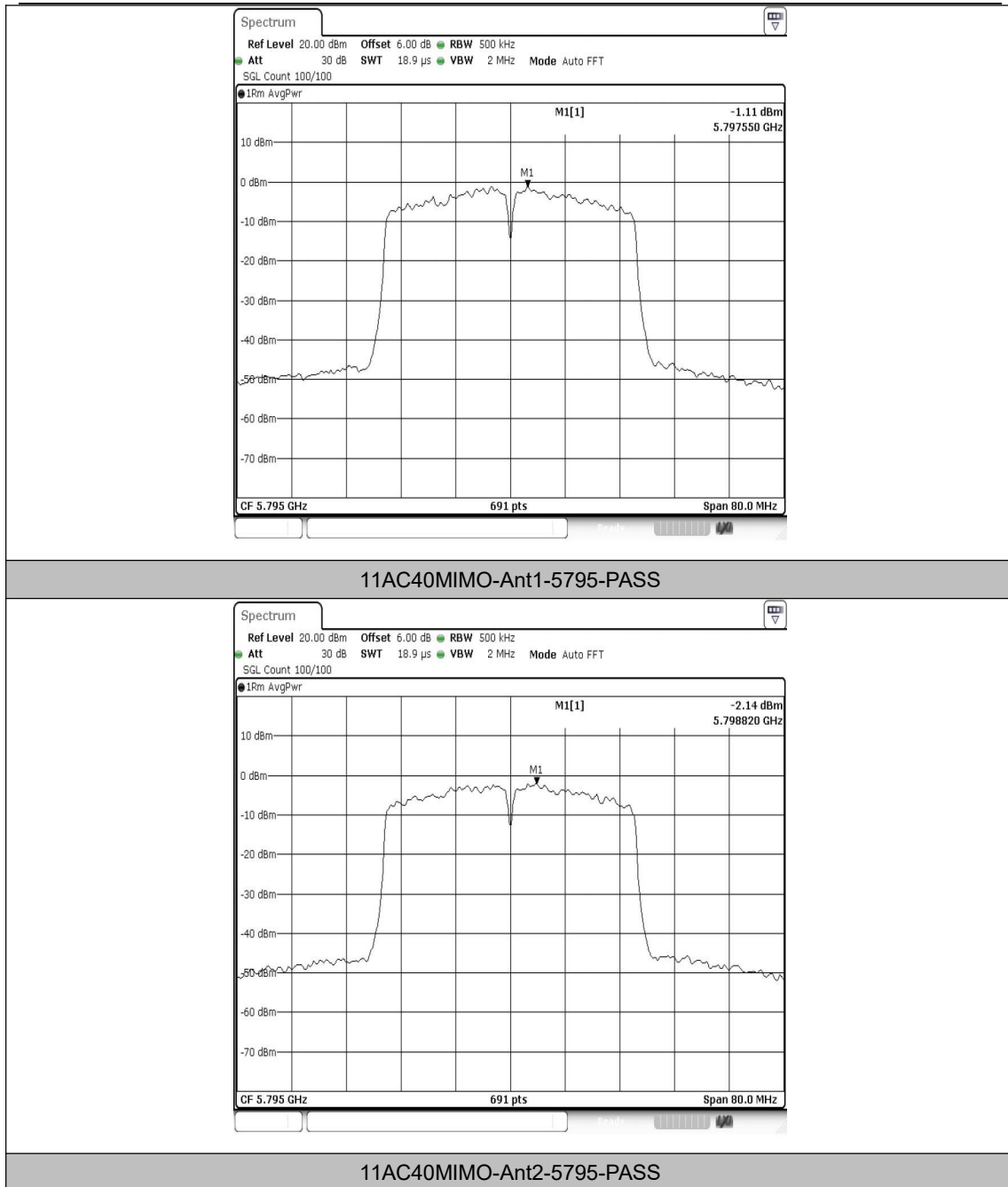
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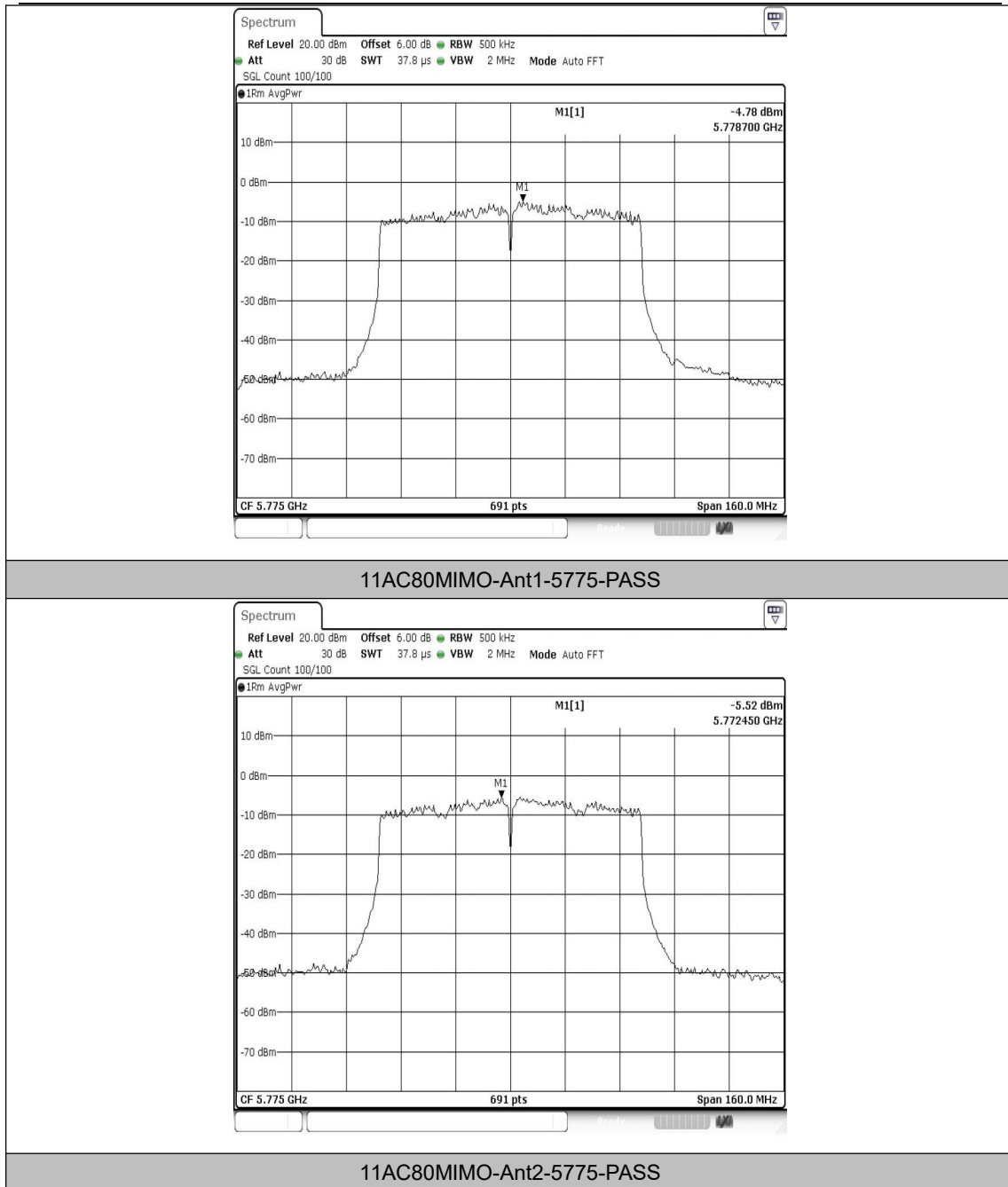
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Appendix E: Band edge measurements

Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-30.53	≤-27	PASS
11A	Ant2	Low	5180	-30.72	≤-27	PASS
11A	Ant1	High	5240	-38.62	≤-27	PASS
11A	Ant2	High	5240	-39.26	≤-27	PASS
11N20MIMO	Ant1	Low	5180	-31.28	≤-27	PASS
11N20MIMO	Ant2	Low	5180	-31.34	≤-27	PASS
11N20MIMO	Ant1	High	5240	-38.8	≤-27	PASS
11N20MIMO	Ant2	High	5240	-39.53	≤-27	PASS
11N40MIMO	Ant1	Low	5190	-30.93	≤-27	PASS
11N40MIMO	Ant2	Low	5190	-31.09	≤-27	PASS
11N40MIMO	Ant1	High	5230	-39.21	≤-27	PASS
11N40MIMO	Ant2	High	5230	-39.18	≤-27	PASS
11AC20MIMO	Ant1	Low	5180	-31.68	≤-27	PASS
11AC20MIMO	Ant2	Low	5180	-31.64	≤-27	PASS
11AC20MIMO	Ant1	High	5240	-39.53	≤-27	PASS
11AC20MIMO	Ant2	High	5240	-38.49	≤-27	PASS
11AC40MIMO	Ant1	Low	5190	-31.46	≤-27	PASS
11AC40MIMO	Ant2	Low	5190	-31.71	≤-27	PASS
11AC40MIMO	Ant1	High	5230	-38.61	≤-27	PASS
11AC40MIMO	Ant2	High	5230	-39.31	≤-27	PASS
11AC80MIMO	Ant1	Low	5210	-30.34	≤-27	PASS
11AC80MIMO	Ant1	High	5210	-37.72	≤-27	PASS
11AC80MIMO	Ant2	Low	5210	-30.79	≤-27	PASS
11AC80MIMO	Ant2	High	5210	-39.11	≤-27	PASS

Note: The margin plus the antenna gain also meets the limit.