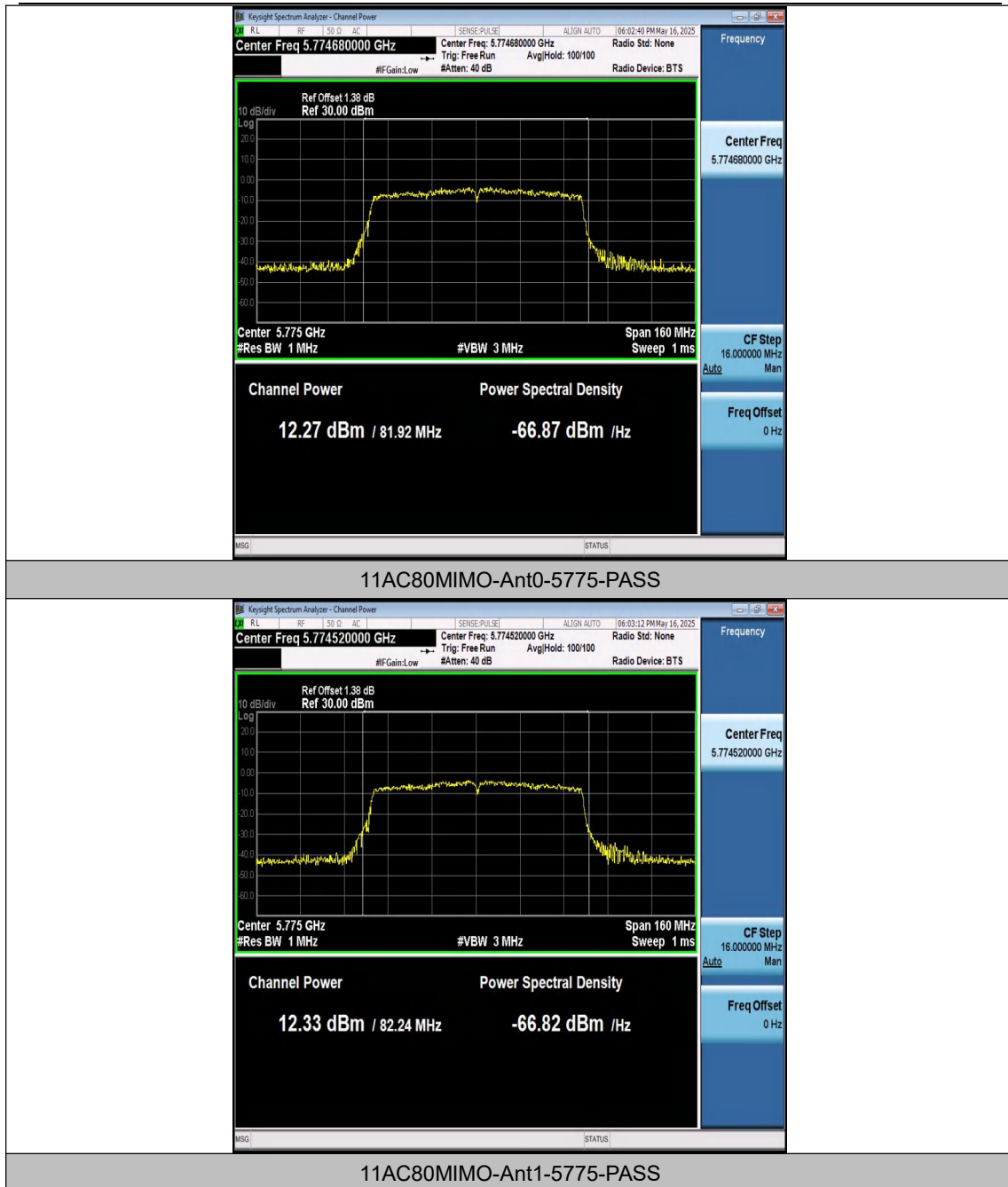




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Appendix D: Maximum Power Spectral Density

Test Result B1

Test Mode	Antenna	Frequency[MHz]	Reading Result[dBm /MHz]	DC Factor [dBm]	Result [dBm]	Limit [dBm/MHz]	Verdict
11A	Ant0	5180	-1.99	0.13	-1.86	≤10.00	PASS
11A	Ant1	5180	-2.14	0.26	-1.88	≤10.00	PASS
11A	Ant0	5220	-2.32	0.26	-2.06	≤10.00	PASS
11A	Ant1	5220	-2.29	0.13	-2.16	≤10.00	PASS
11A	Ant0	5240	-2.58	0.13	-2.45	≤10.00	PASS
11A	Ant1	5240	-2.42	0.26	-2.16	≤10.00	PASS
11N20MI MO	Ant0	5180	-2.58	0.13	-2.45	≤10.00	PASS
11N20MI MO	Ant1	5180	-2.67	0.13	-2.54	≤10.00	PASS
11N20MI MO	total	5180	---	---	0.52	≤9.08	PASS
11N20MI MO	Ant0	5220	-2.35	0.13	-2.22	≤10.00	PASS
11N20MI MO	Ant1	5220	-2.29	0.13	-2.16	≤10.00	PASS
11N20MI MO	total	5220	---	---	0.82	≤9.08	PASS
11N20MI MO	Ant0	5240	-2.5	0.13	-2.37	≤10.00	PASS
11N20MI MO	Ant1	5240	-2.43	0.13	-2.3	≤10.00	PASS
11N20MI MO	total	5240	---	---	0.68	≤9.08	PASS
11N40MI MO	Ant0	5190	-4.77	0.23	-4.54	≤10.00	PASS
11N40MI MO	Ant1	5190	-4.75	0.23	-4.52	≤10.00	PASS
11N40MI MO	total	5190	---	---	-1.52	≤9.08	PASS
11N40MI MO	Ant0	5230	-5.06	0.23	-4.83	≤10.00	PASS
11N40MI MO	Ant1	5230	-5.24	0.48	-4.76	≤10.00	PASS
11N40MI MO	total	5230	---	---	-1.78	≤9.08	PASS

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11AC20M IMO	Ant1	5180	-2.48	0.13	-2.35	≤10.00	PASS
11AC20M IMO	total	5180	---	---	0.8	≤9.08	PASS
11AC20M IMO	Ant0	5180	-2.34	0.26	-2.08	≤10.00	PASS
11AC20M IMO	Ant0	5220	-2.25	0.13	-2.12	≤10.00	PASS
11AC20M IMO	Ant1	5220	-2.47	0.26	-2.21	≤10.00	PASS
11AC20M IMO	total	5220	---	---	0.85	≤9.08	PASS
11AC20M IMO	Ant0	5240	-2.59	0.13	-2.46	≤10.00	PASS
11AC20M IMO	Ant1	5240	-2.53	0.13	-2.4	≤10.00	PASS
11AC20M IMO	total	5240	---	---	0.58	≤9.08	PASS
11AC40M IMO	Ant0	5190	-5.12	0.46	-4.66	≤10.00	PASS
11AC40M IMO	Ant1	5190	-5.36	0.23	-5.13	≤10.00	PASS
11AC40M IMO	total	5190	---	---	-1.88	≤9.08	PASS
11AC40M IMO	Ant0	5230	-5.16	0.23	-4.93	≤10.00	PASS
11AC40M IMO	Ant1	5230	-5.08	0.23	-4.85	≤10.00	PASS
11AC40M IMO	total	5230	---	---	-1.88	≤9.08	PASS
11AC80M IMO	Ant0	5210	-9.05	0.79	-8.26	≤10.00	PASS
11AC80M IMO	Ant1	5210	-9	0.38	-8.62	≤10.00	PASS
11AC80M IMO	total	5210	---	---	-5.43	≤9.08	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.
2.B1: As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=6.9>6dBi,
so limit=10-(6.9-6.00)=9.08dBm.
3.MIMO= $10 * \log((10^{Ant0/10}) + 10^{(Ant1/10)})$

Test Result B4

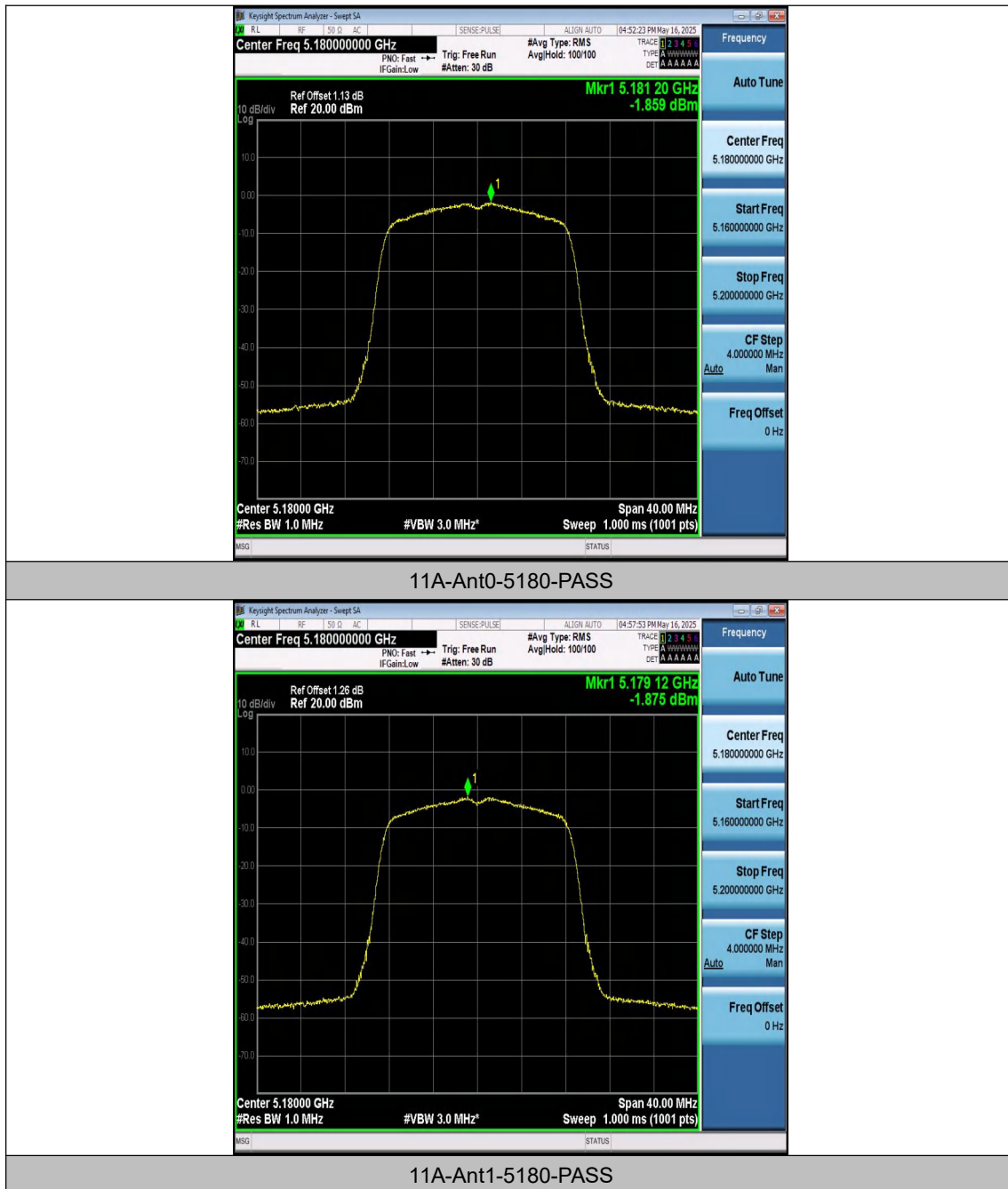
Test Mode	Antenna	Frequency[MHz]	Reading Result[dBm /MHz]	DC Factor [dBm]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant0	5745	-4.92	0.26	-4.75	≤30.00	PASS
11A	Ant1	5745	-4.68	0.13	-4.64	≤30.00	PASS
11A	Ant0	5785	-4.91	0.26	-4.74	≤30.00	PASS
11A	Ant1	5785	-5.16	0.13	-5.12	≤30.00	PASS
11A	Ant0	5825	-5.17	0.26	-5	≤30.00	PASS
11A	Ant1	5825	-5.37	0.26	-5.2	≤30.00	PASS
11N20MI MO	Ant0	5745	-4.72	0.13	-4.68	≤30.00	PASS
11N20MI MO	Ant1	5745	-4.45	0.26	-4.28	≤30.00	PASS
11N20MI MO	total	5745	---	---	3.01	≤28.49	PASS
11N20MI MO	Ant0	5785	-4.96	0.13	-4.92	≤30.00	PASS
11N20MI MO	Ant1	5785	-4.48	0.26	-4.31	≤30.00	PASS
11N20MI MO	total	5785	---	---	3.01	≤28.49	PASS
11N20MI MO	Ant0	5825	-4.85	0.13	-4.81	≤30.00	PASS
11N20MI MO	Ant1	5825	-5.17	0.13	-5.13	≤30.00	PASS
11N20MI MO	total	5825	---	---	3.01	≤28.49	PASS
11N40MI MO	Ant0	5755	-7.66	0.48	-7.27	≤30.00	PASS
11N40MI MO	Ant1	5755	-7.19	0.48	-6.8	≤30.00	PASS
11N40MI MO	total	5755	---	---	3.01	≤28.49	PASS
11N40MI MO	Ant0	5795	-7.57	0.48	-7.18	≤30.00	PASS
11N40MI MO	Ant1	5795	-7.67	0.25	-7.51	≤30.00	PASS
11N40MI MO	total	5795	---	---	3.01	≤28.49	PASS
11AC20M IMO	Ant0	5745	-4.73	0.26	-4.56	≤30.00	PASS

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11AC20M IMO	Ant1	5745	-4.64	0.13	-4.6	≤30.00	PASS
11AC20M IMO	total	5745	---	---	3.01	≤28.49	PASS
11AC20M IMO	Ant0	5785	-4.98	0.13	-4.94	≤30.00	PASS
11AC20M IMO	Ant1	5785	-4.87	0.26	-4.7	≤30.00	PASS
11AC20M IMO	total	5785	---	---	3.01	≤28.49	PASS
11AC20M IMO	Ant0	5825	-4.96	0.26	-4.79	≤30.00	PASS
11AC20M IMO	Ant1	5825	-5.14	0.13	-5.1	≤30.00	PASS
11AC20M IMO	total	5825	---	---	3.01	≤28.49	PASS
11AC40M IMO	Ant0	5755	-7.6	0.46	-7.23	≤30.00	PASS
11AC40M IMO	Ant1	5755	-7.77	0.23	-7.63	≤30.00	PASS
11AC40M IMO	total	5755	---	---	3.01	≤28.49	PASS
11AC40M IMO	Ant0	5795	-7.62	0.23	-7.48	≤30.00	PASS
11AC40M IMO	Ant1	5795	-7.64	0.23	-7.5	≤30.00	PASS
11AC40M IMO	total	5795	---	---	3.01	≤28.49	PASS
11AC80M IMO	Ant0	5775	-11.84	0.38	-11.55	≤30.00	PASS
11AC80M IMO	Ant1	5775	-11.57	0.38	-11.28	≤30.00	PASS
11AC80M IMO	total	5775	---	---	3.01	≤28.49	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.
 2.B4: As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=7.51>6dBi,
 so limit=30-(7.51-6.00)=28.49dBm.
 3.MIMO= $10 * \log((10^{Ant0/10}) + 10^{(Ant1/10)})$

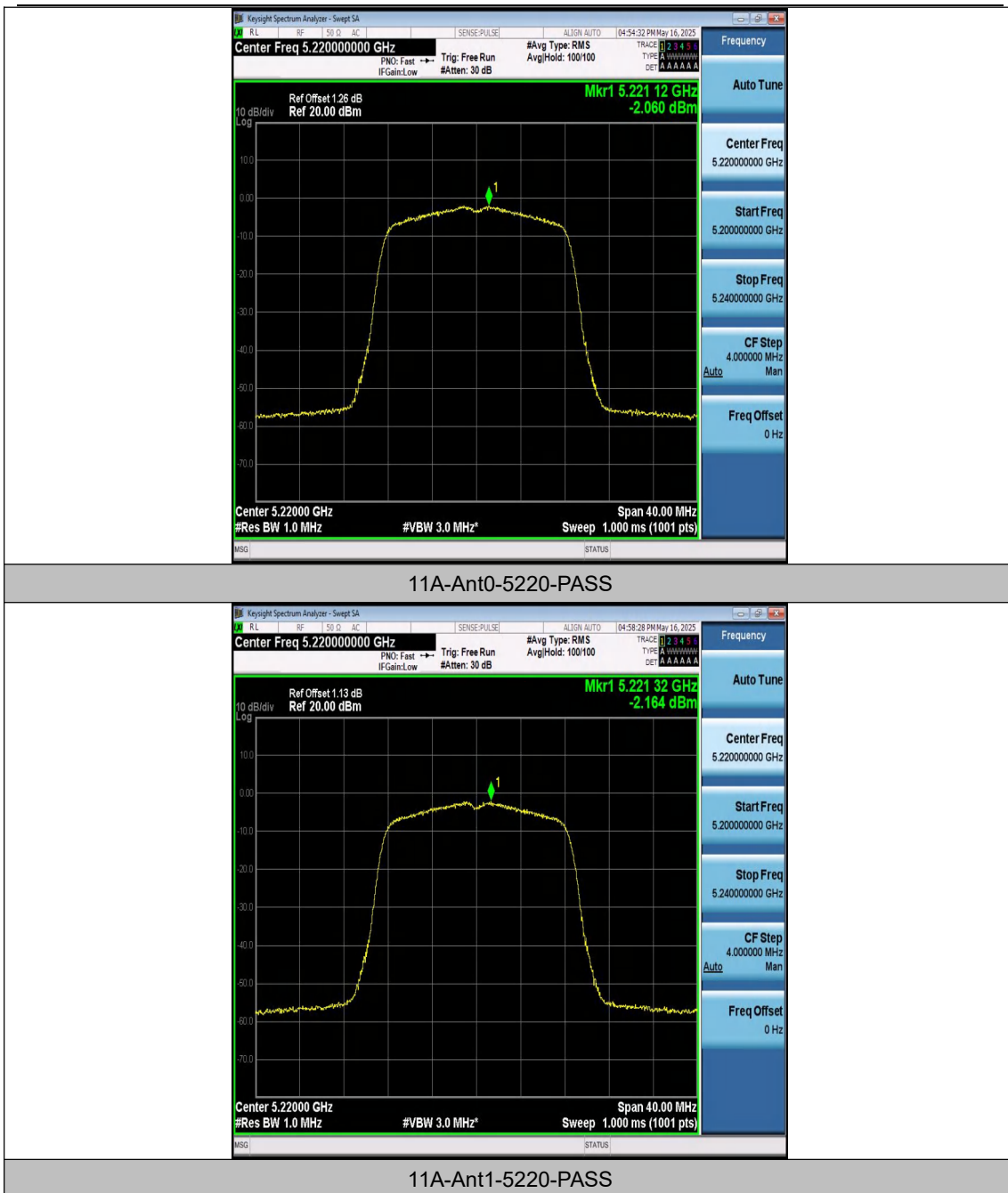
Test Graphs



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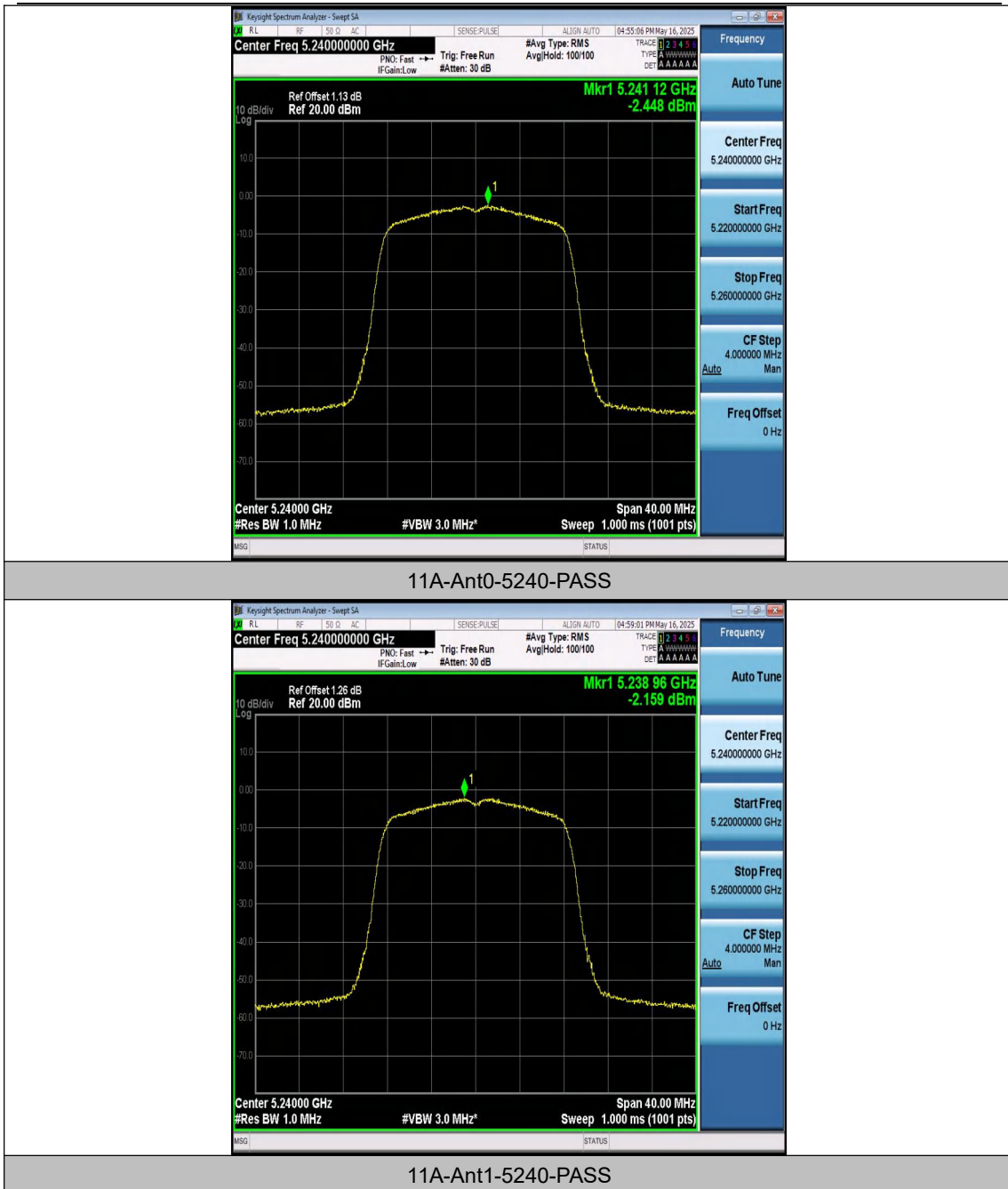


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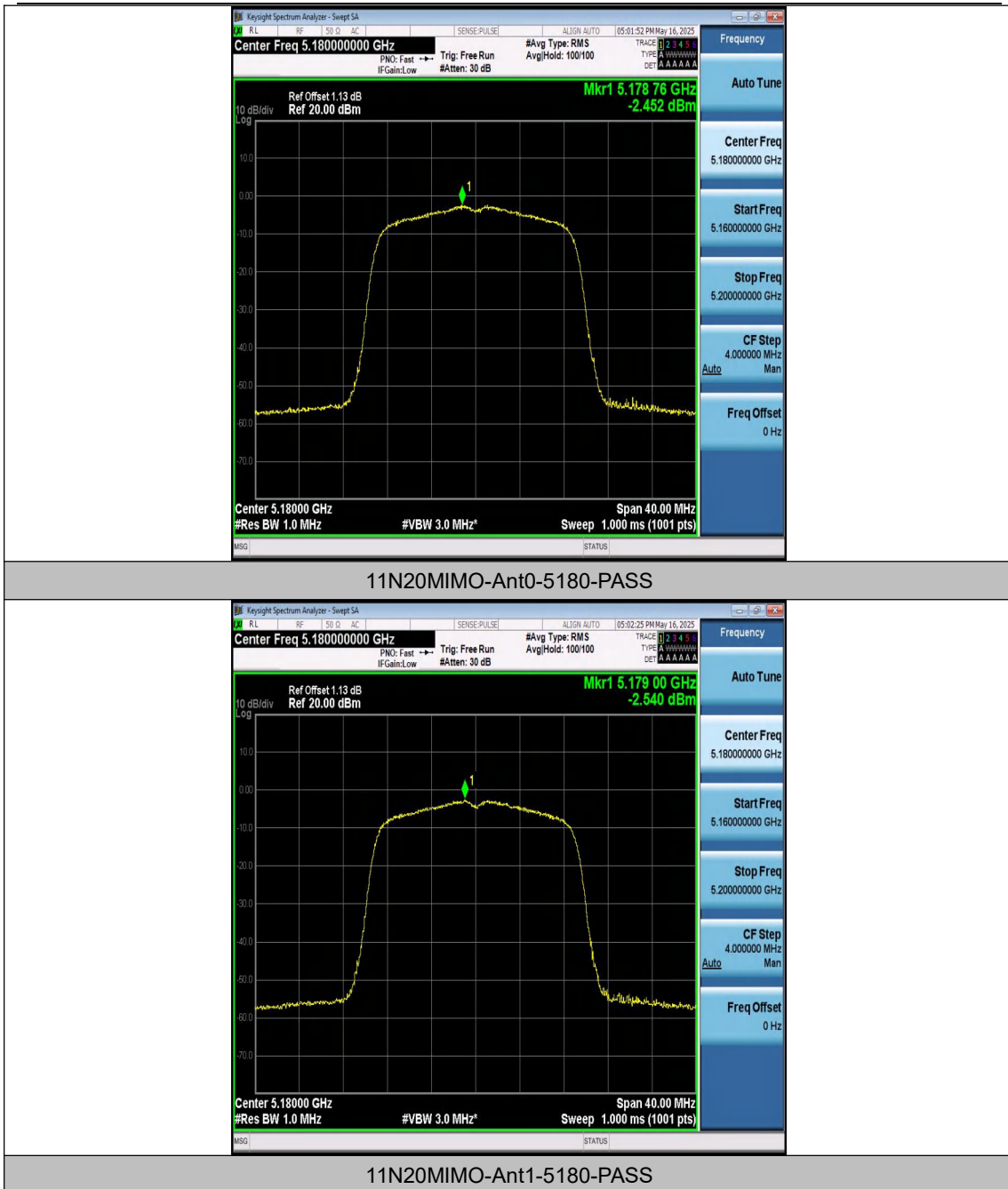


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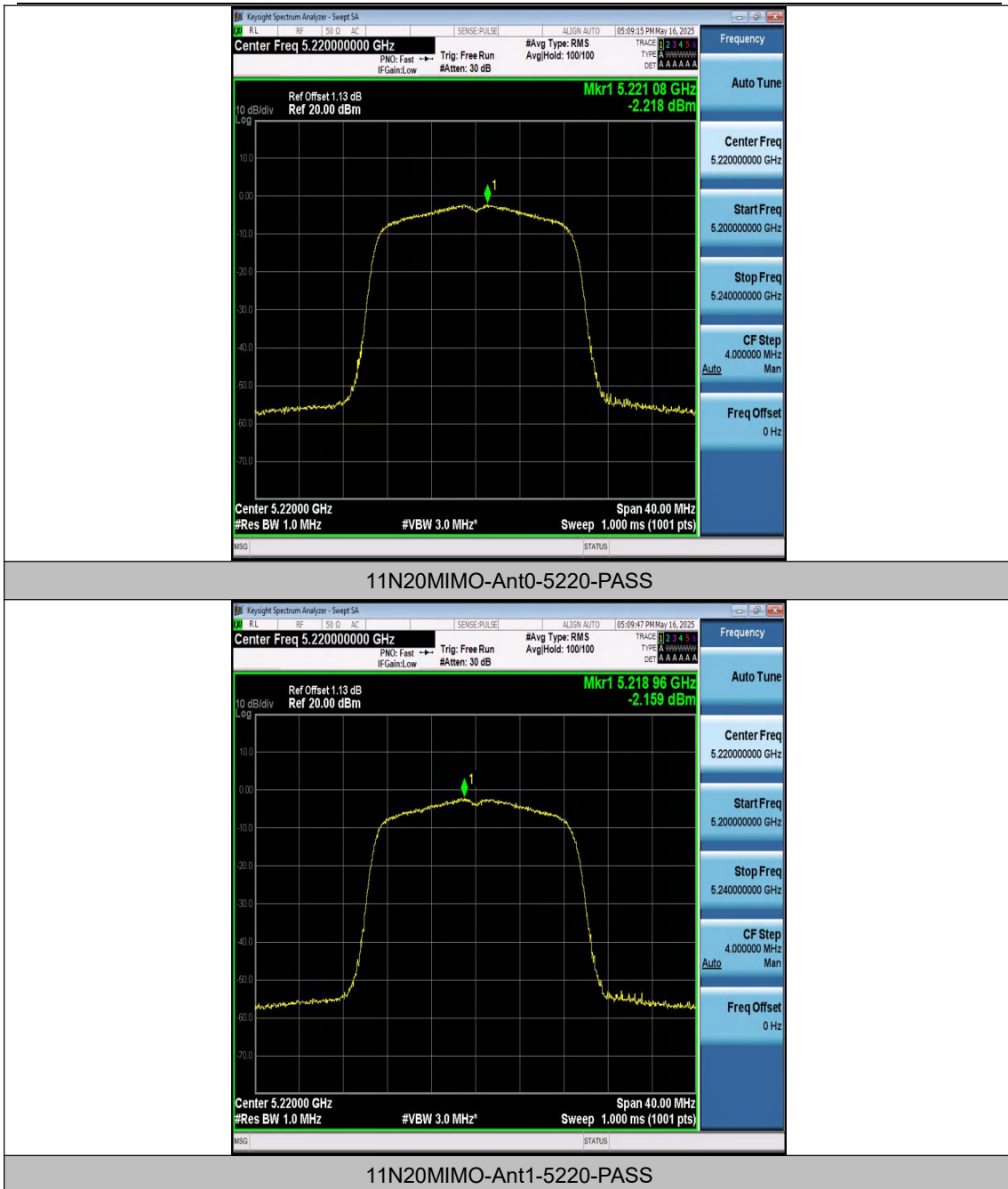


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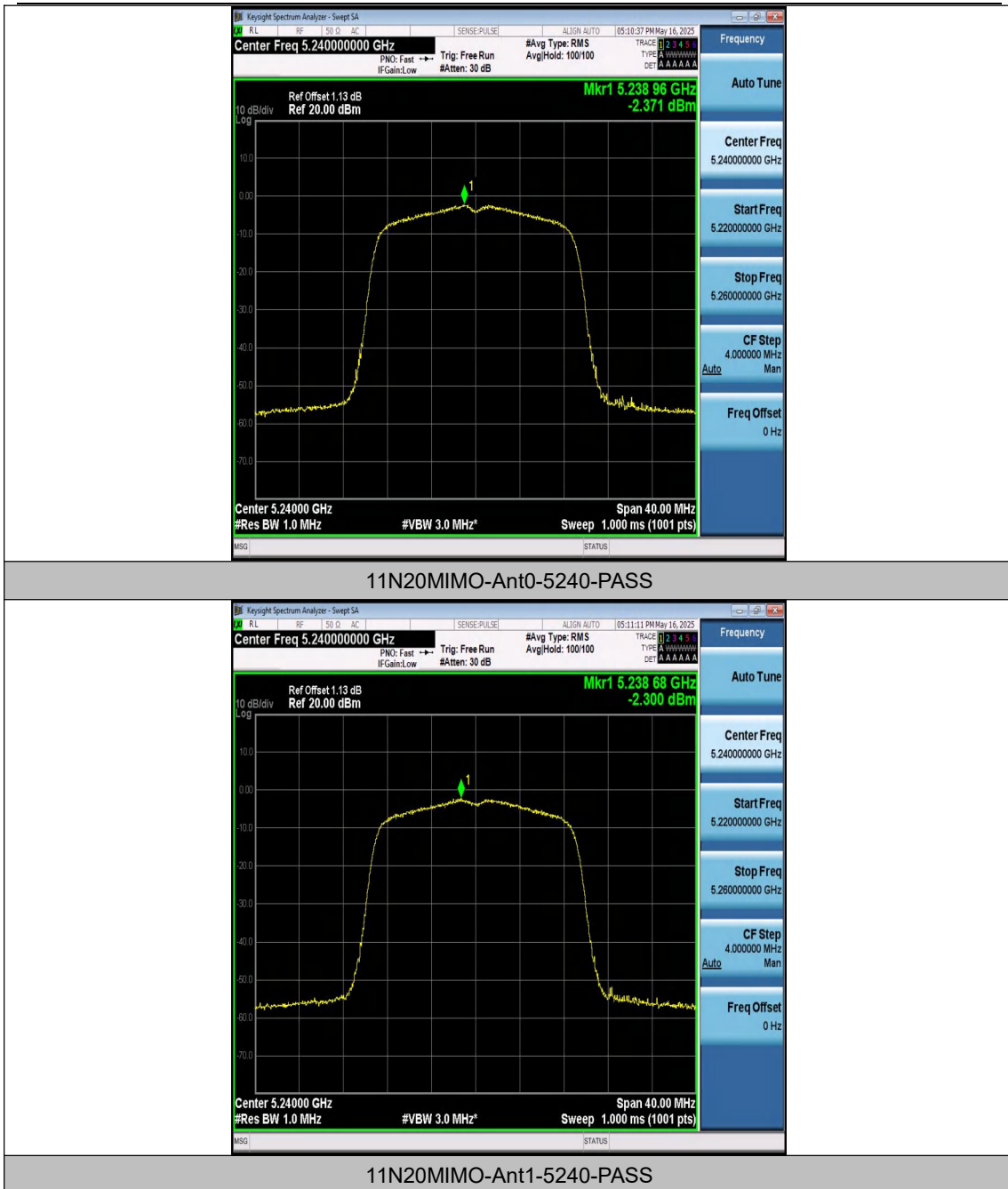
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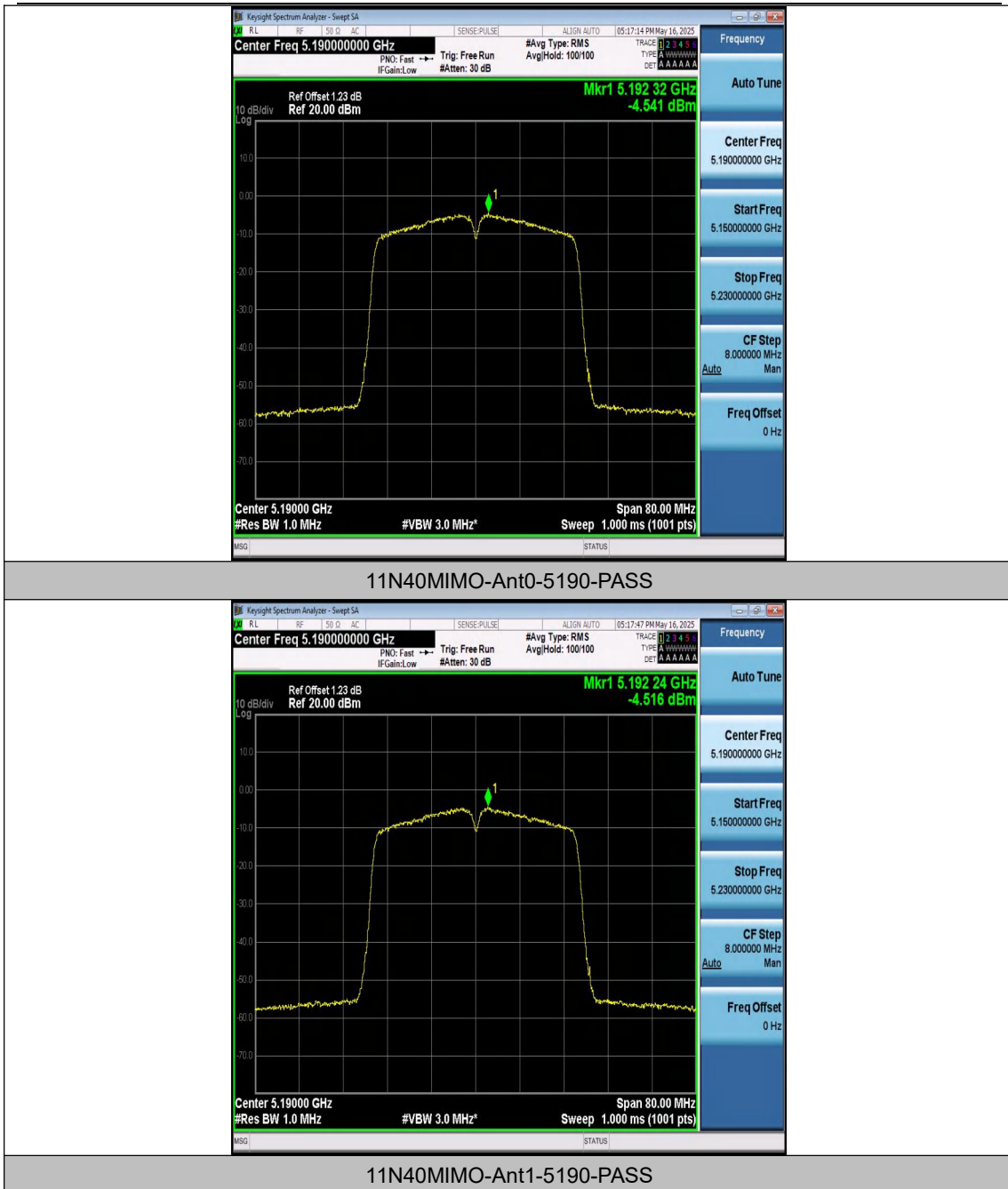
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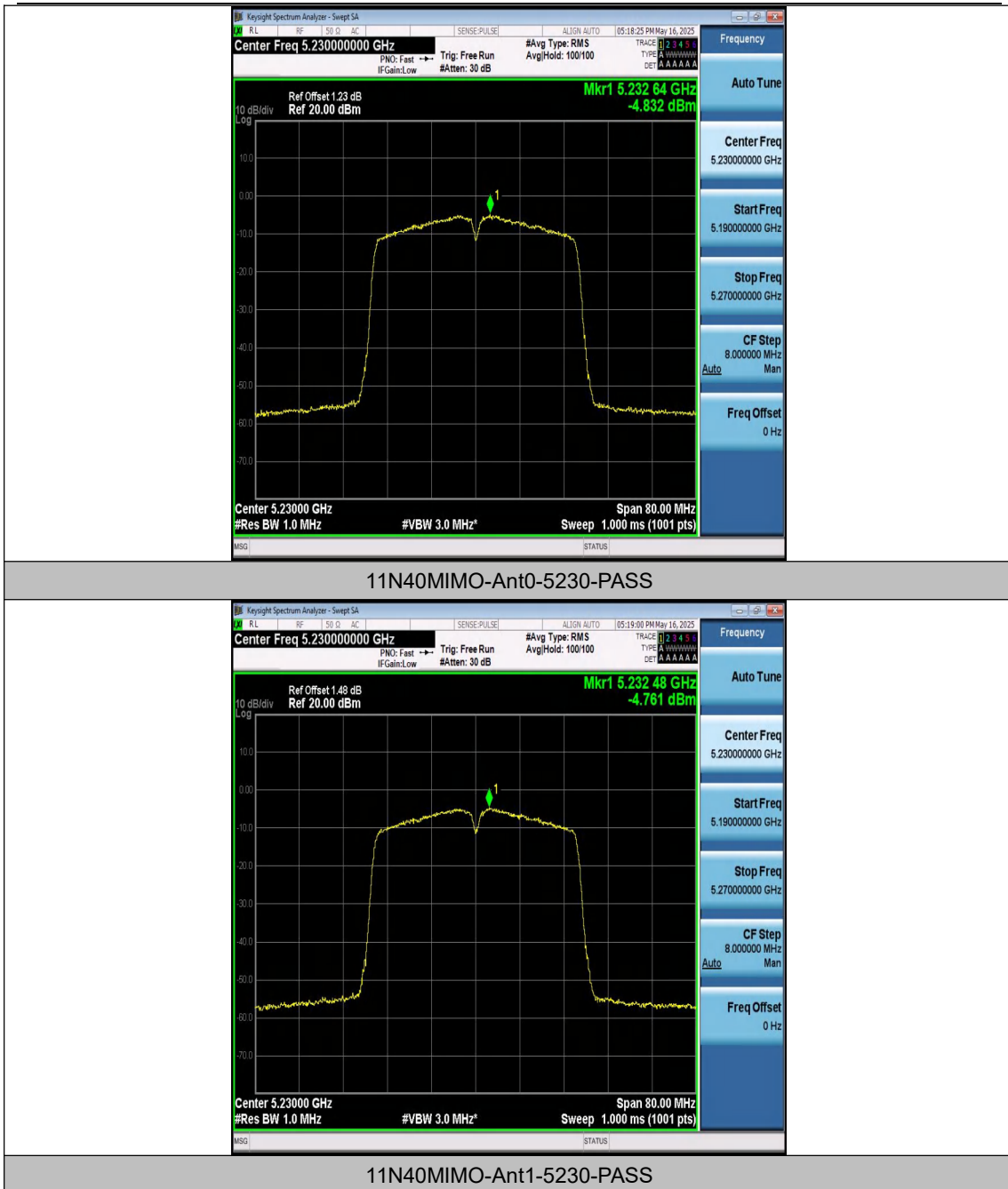
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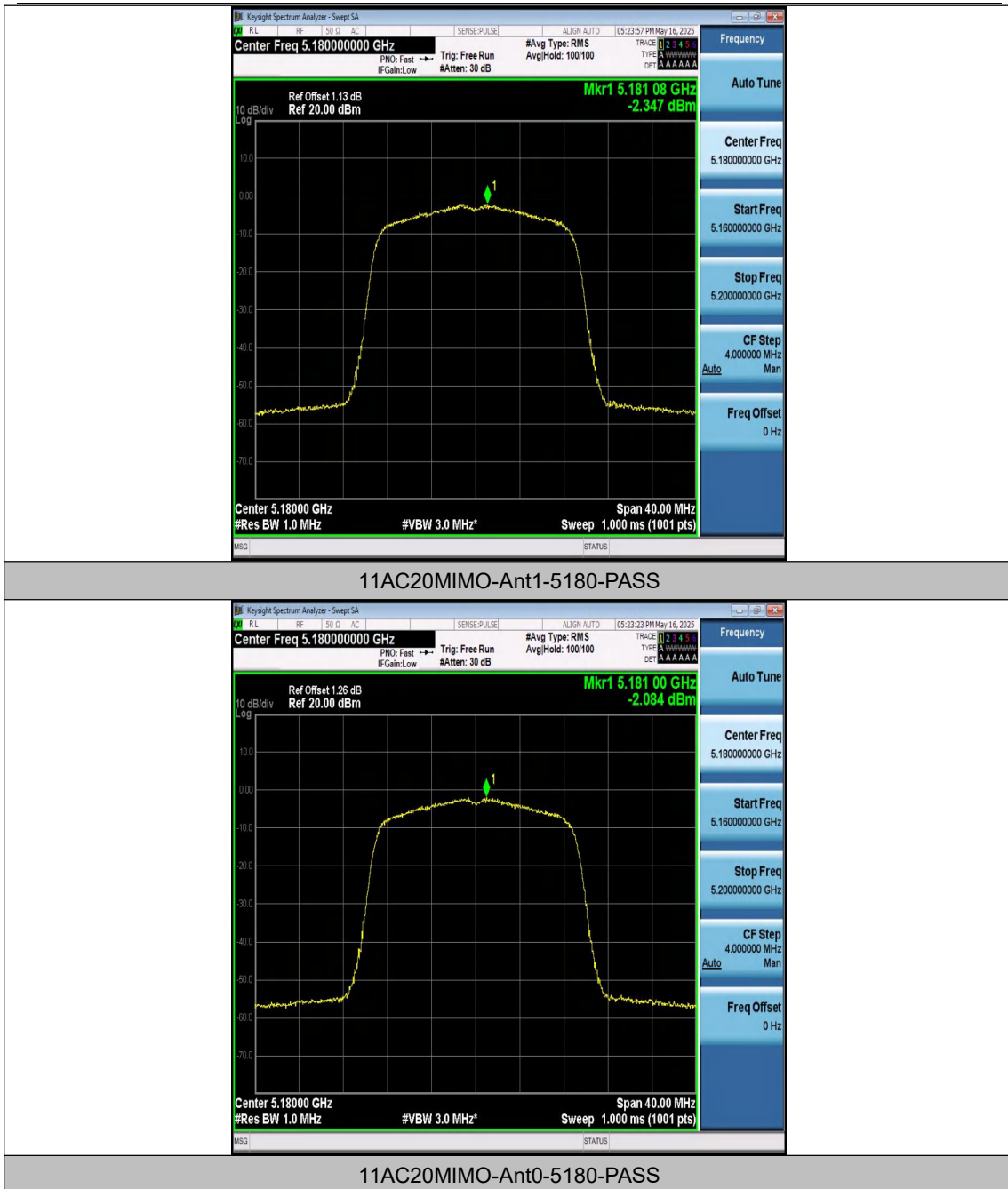
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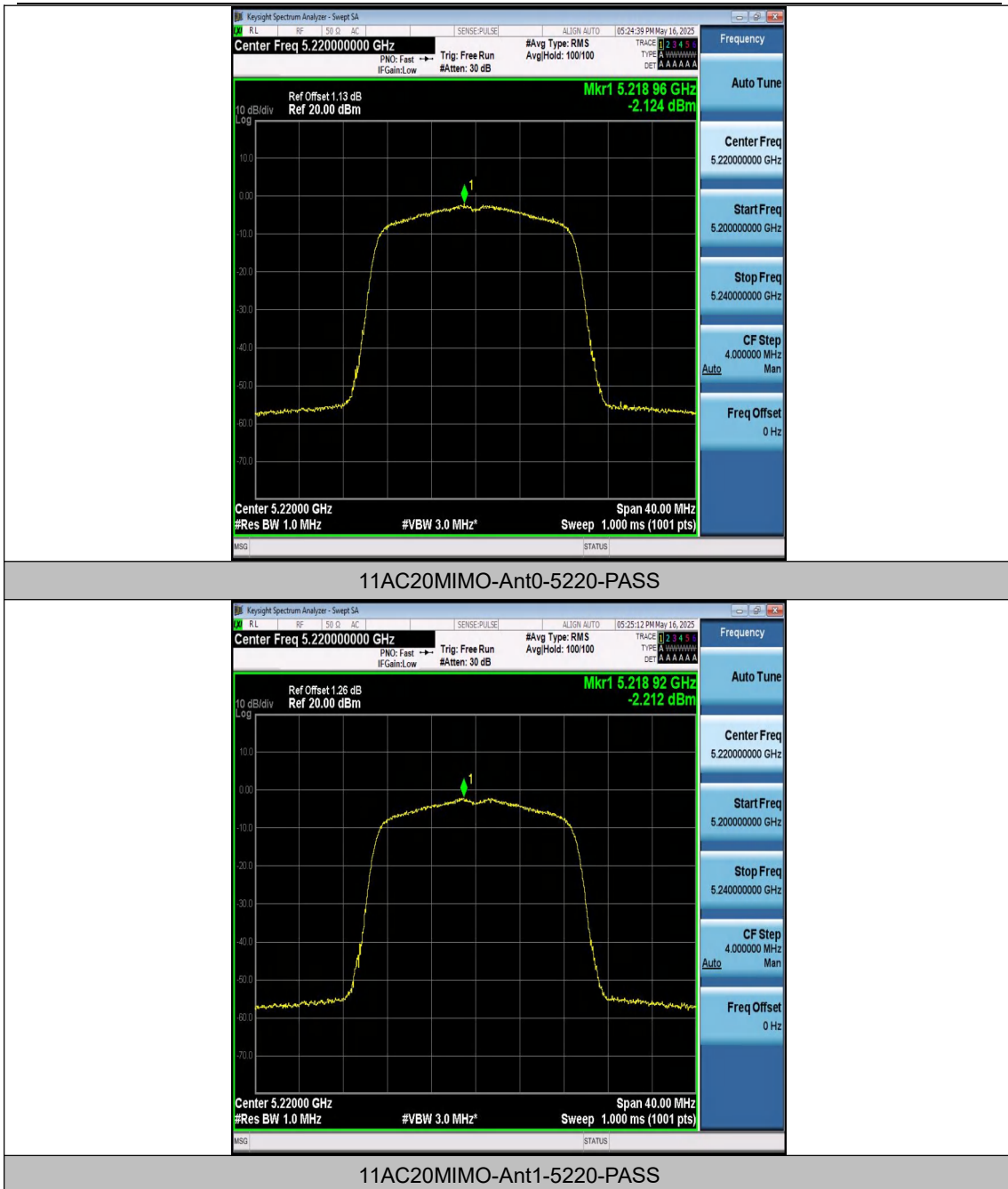
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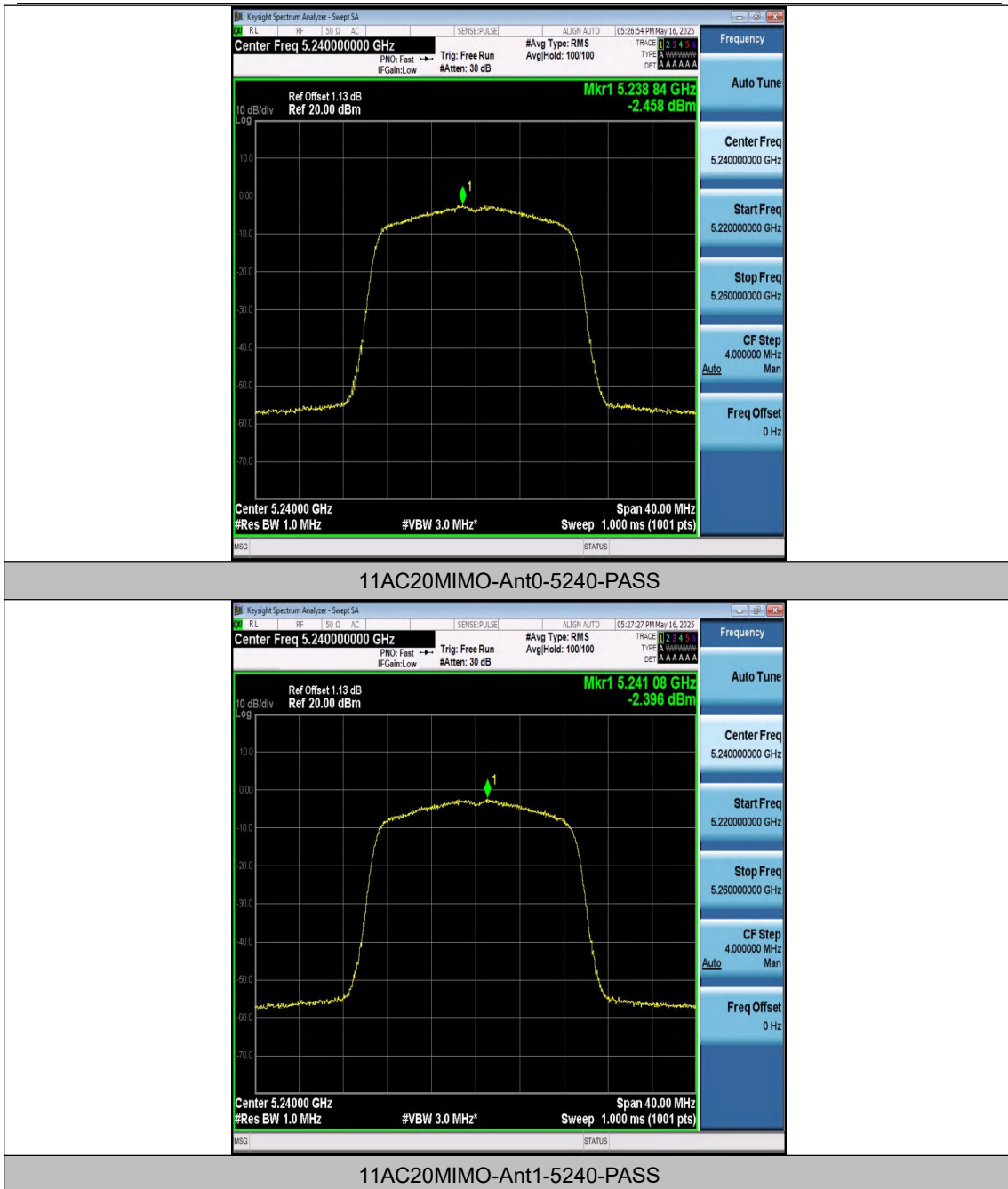
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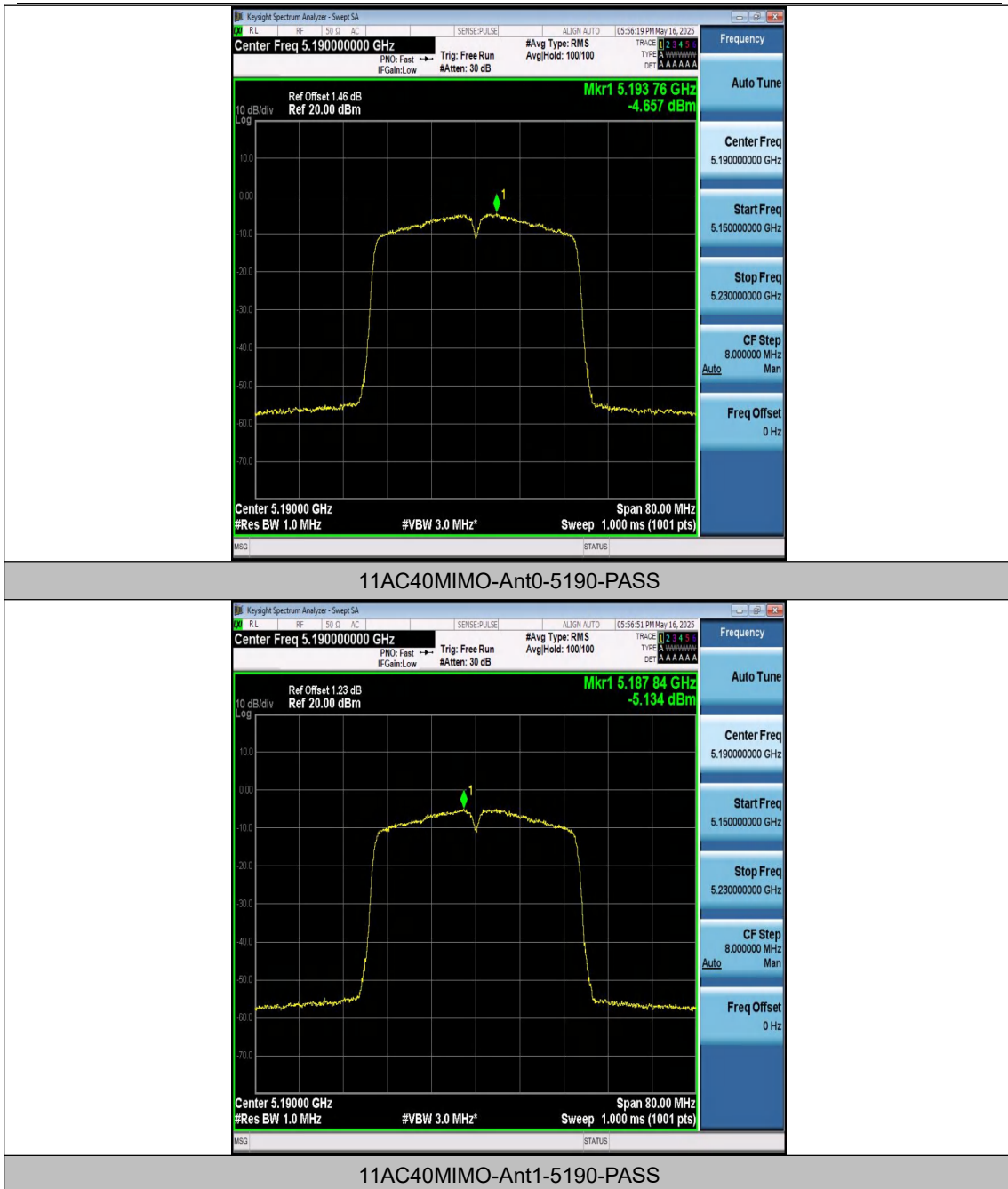
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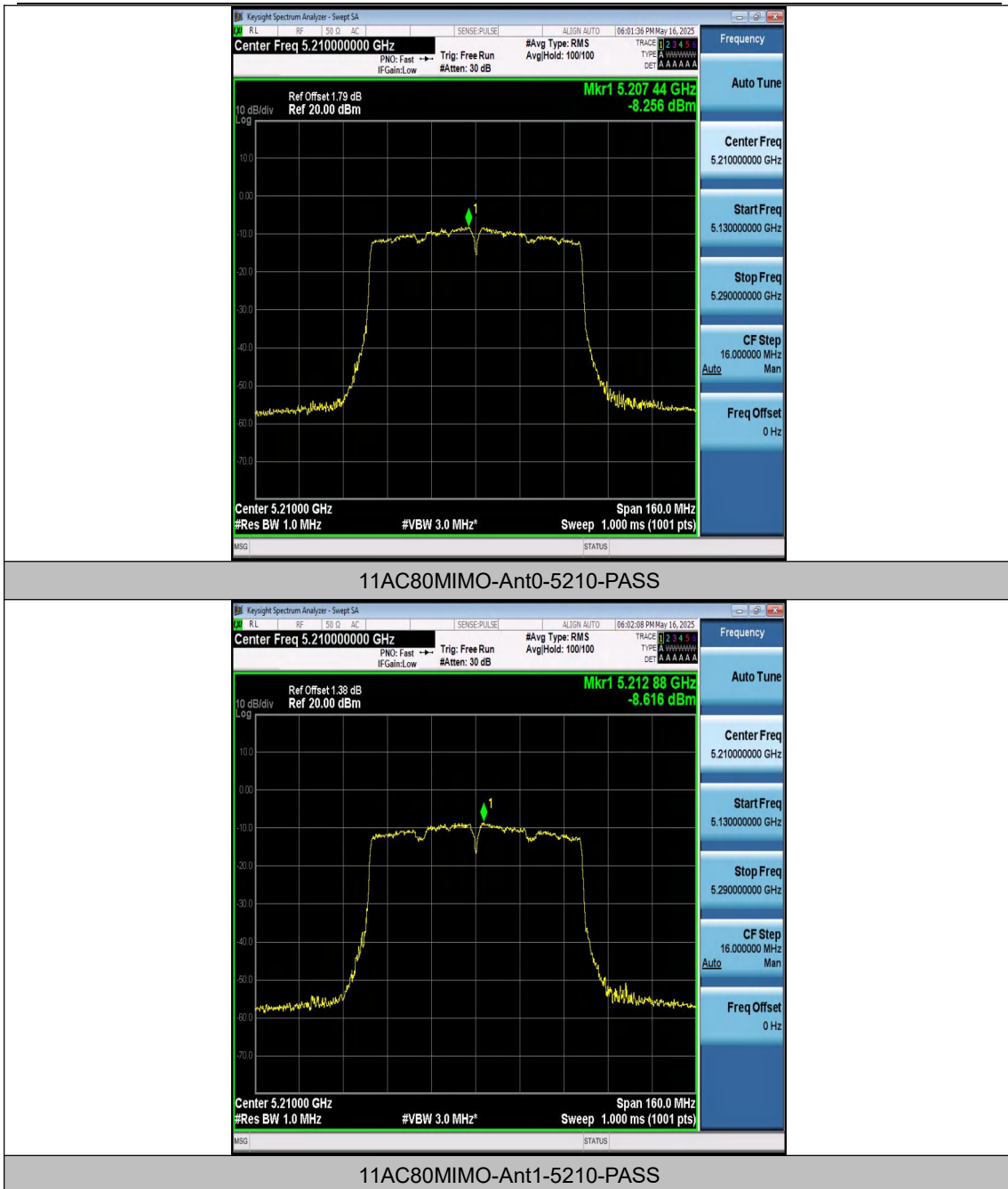
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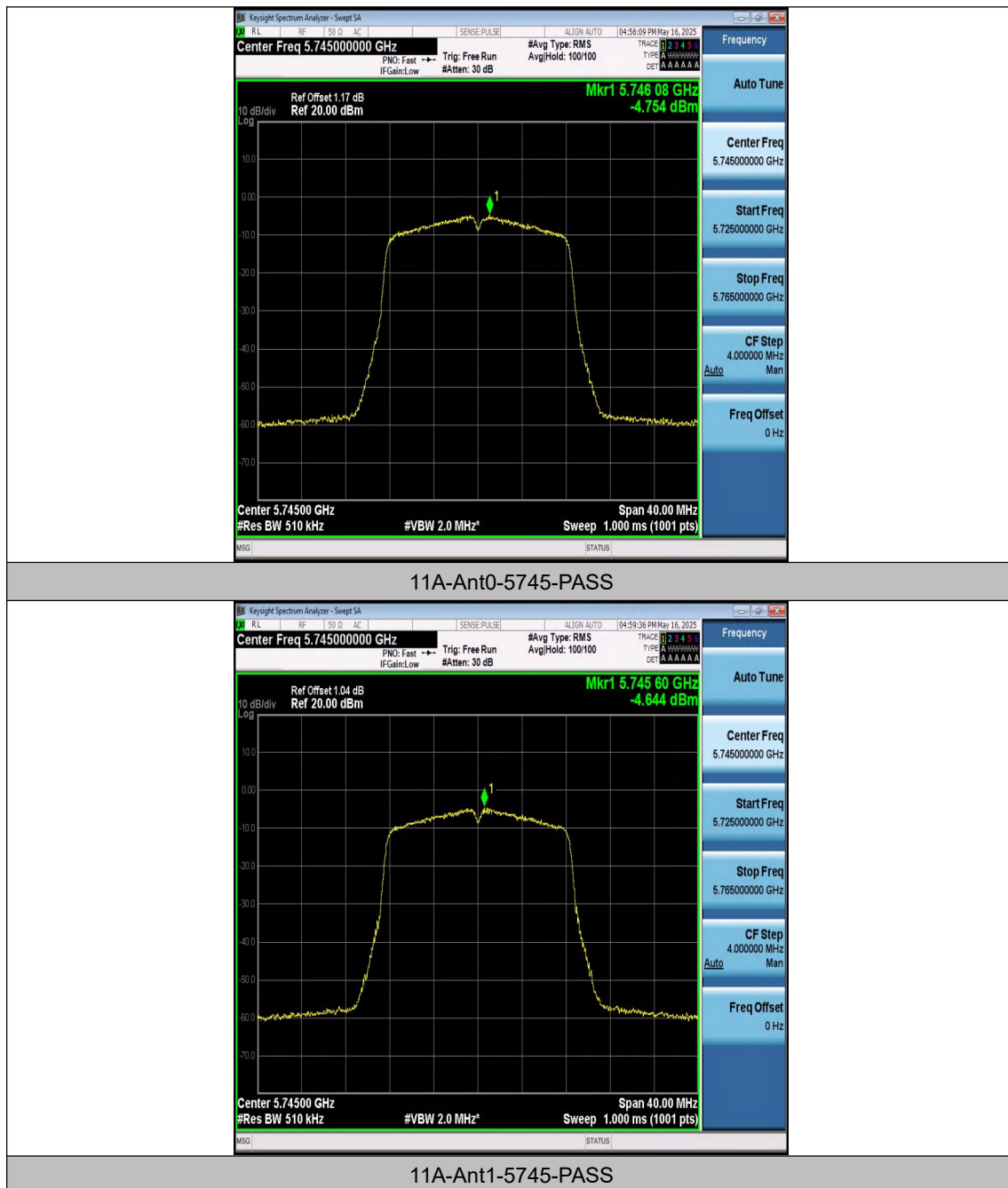
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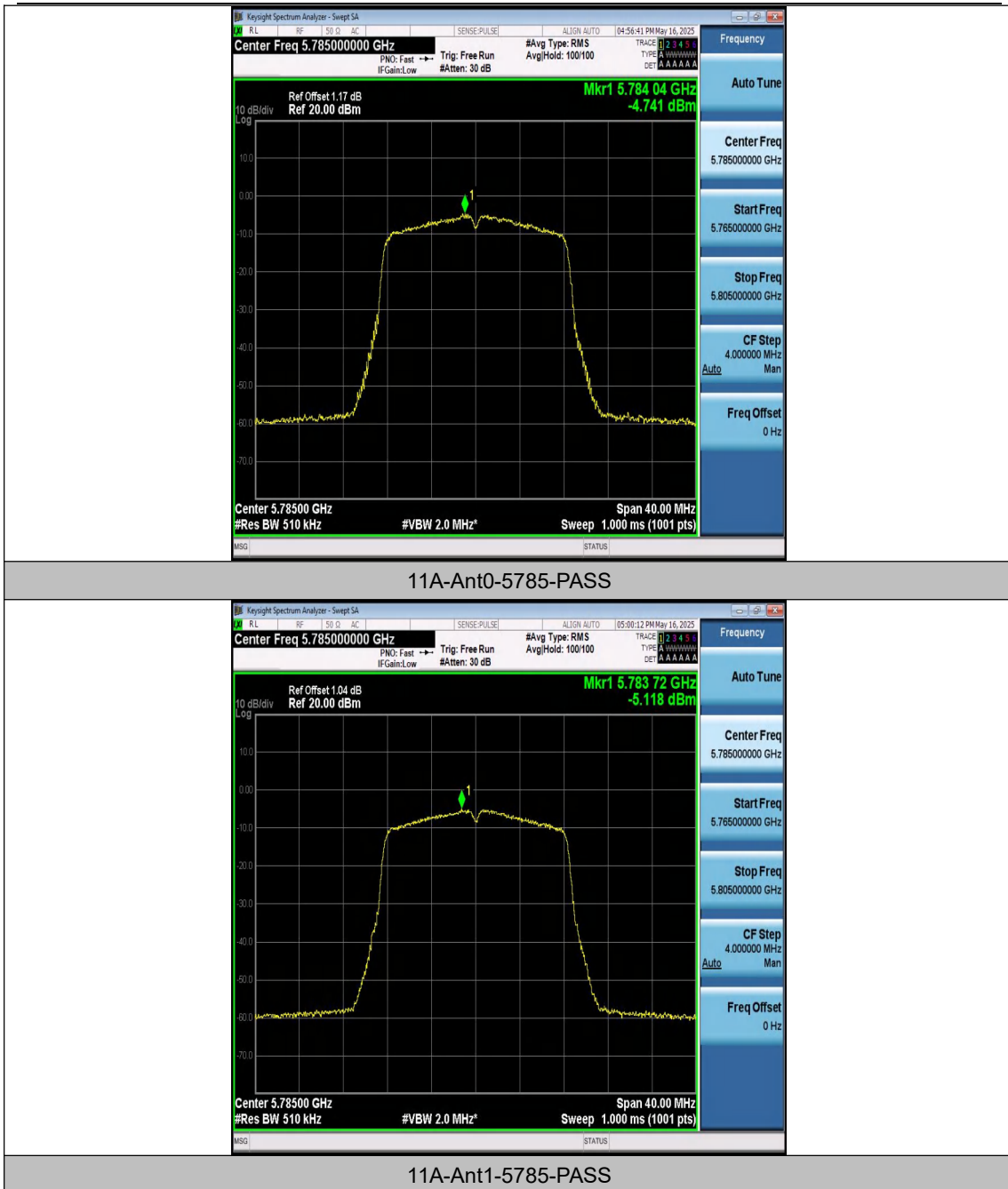
Test GraphsB4



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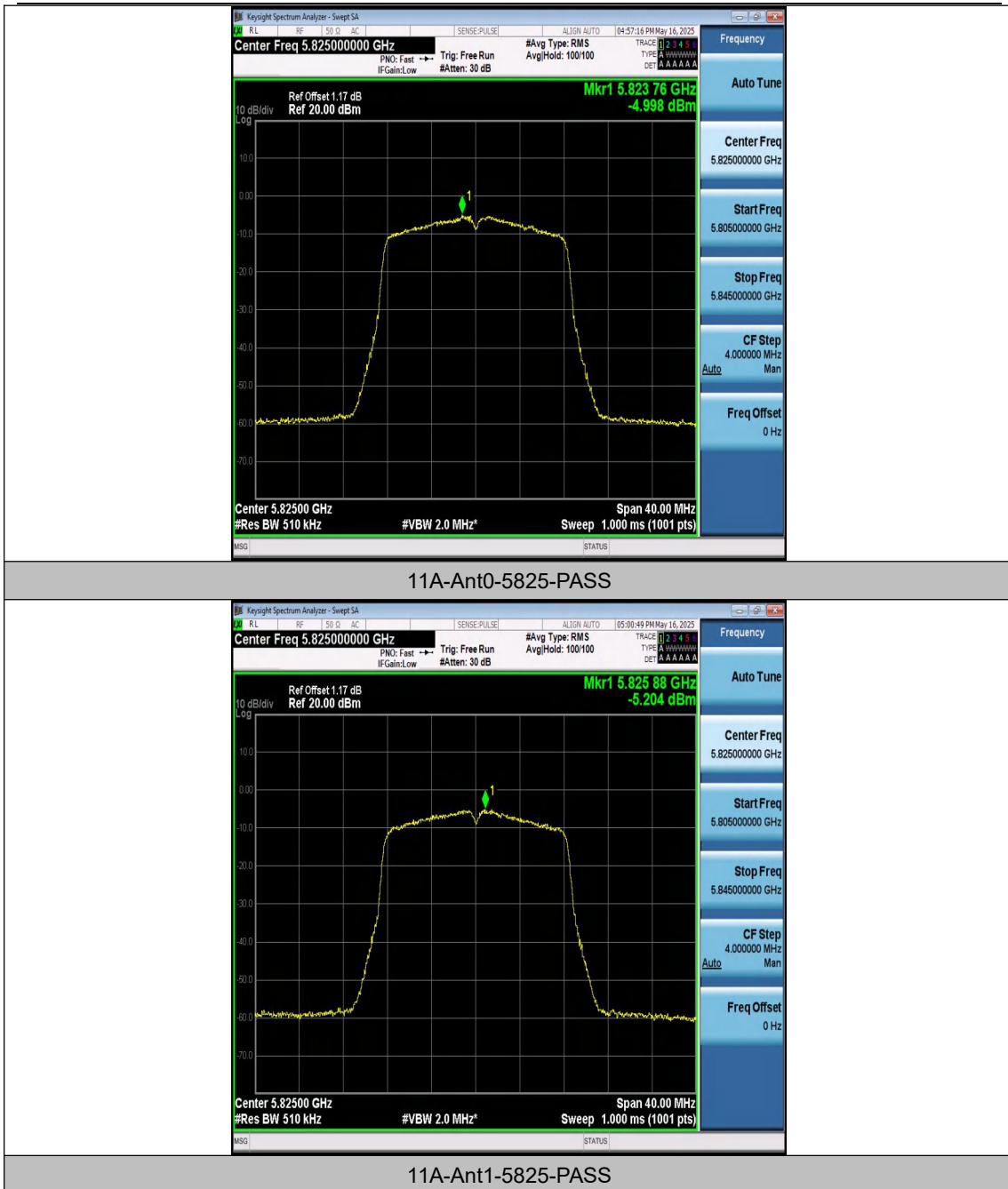
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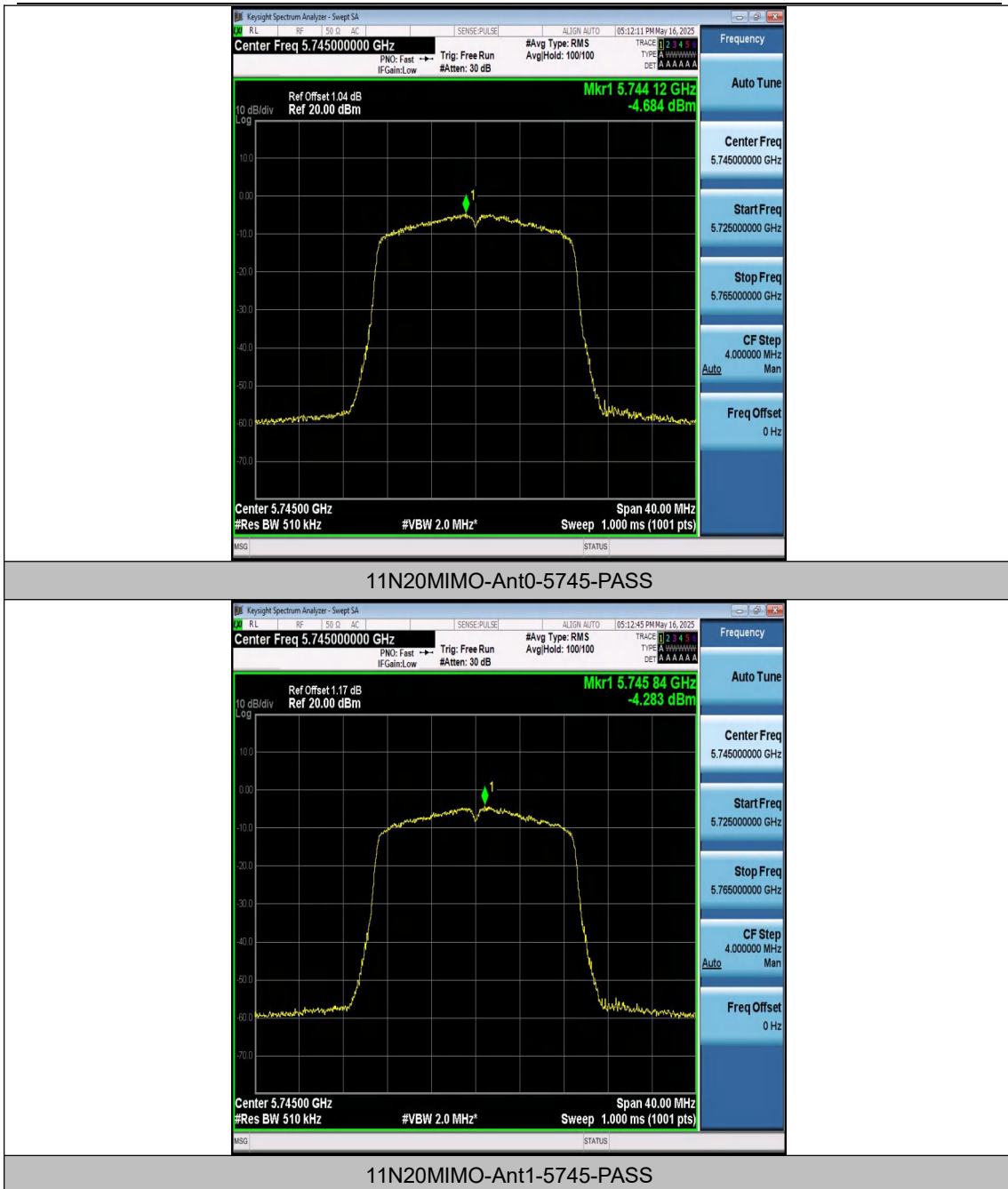
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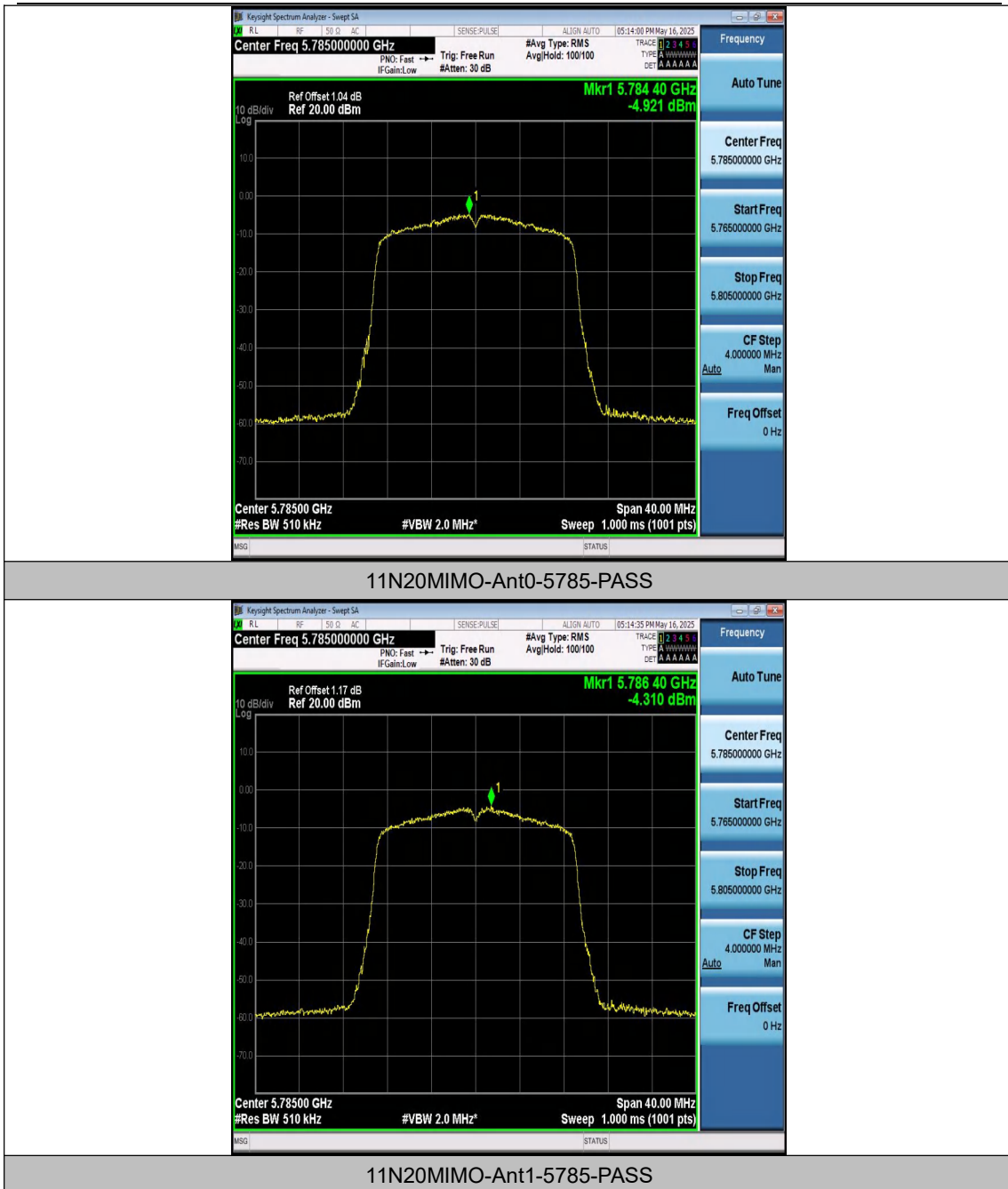
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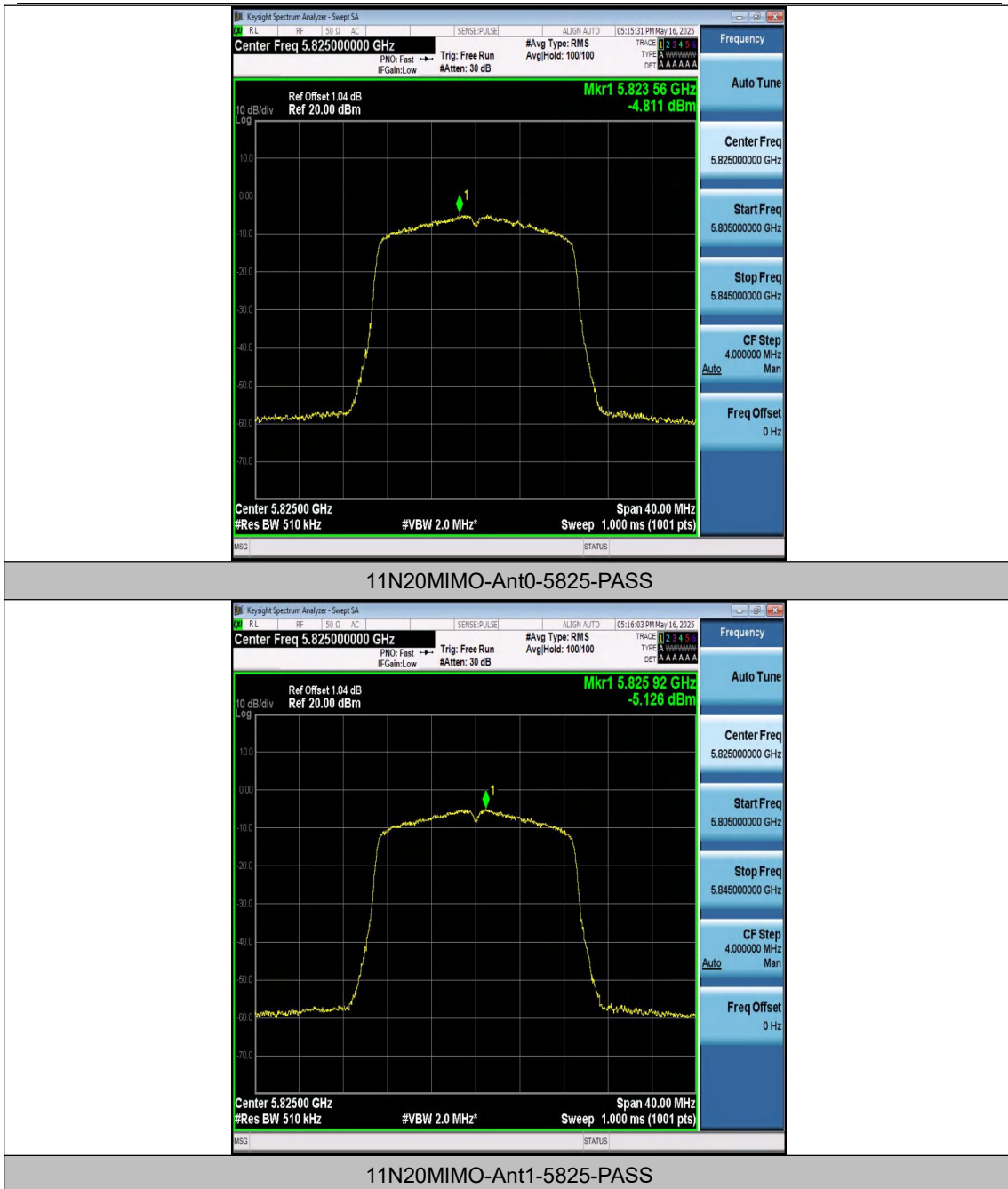
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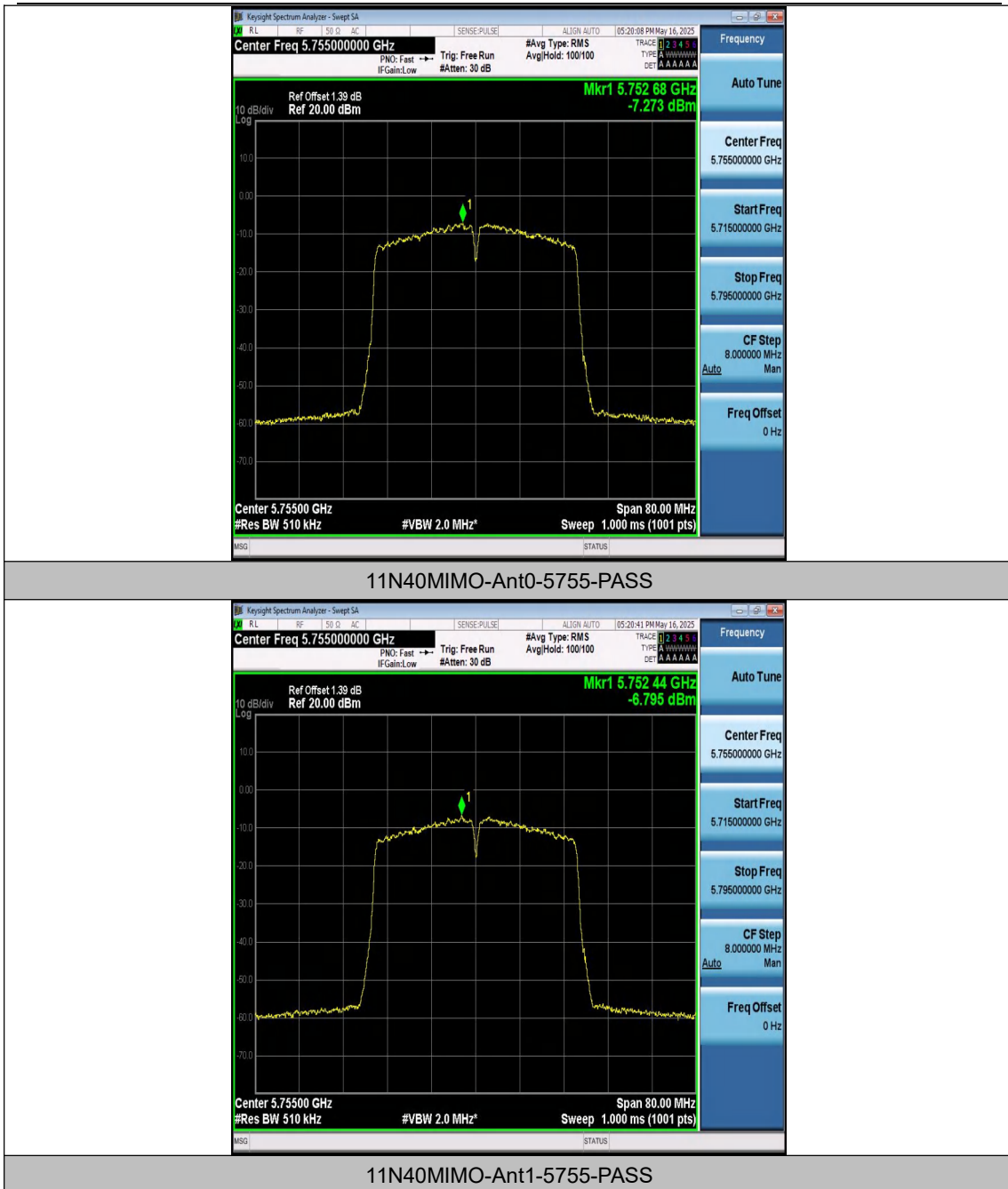


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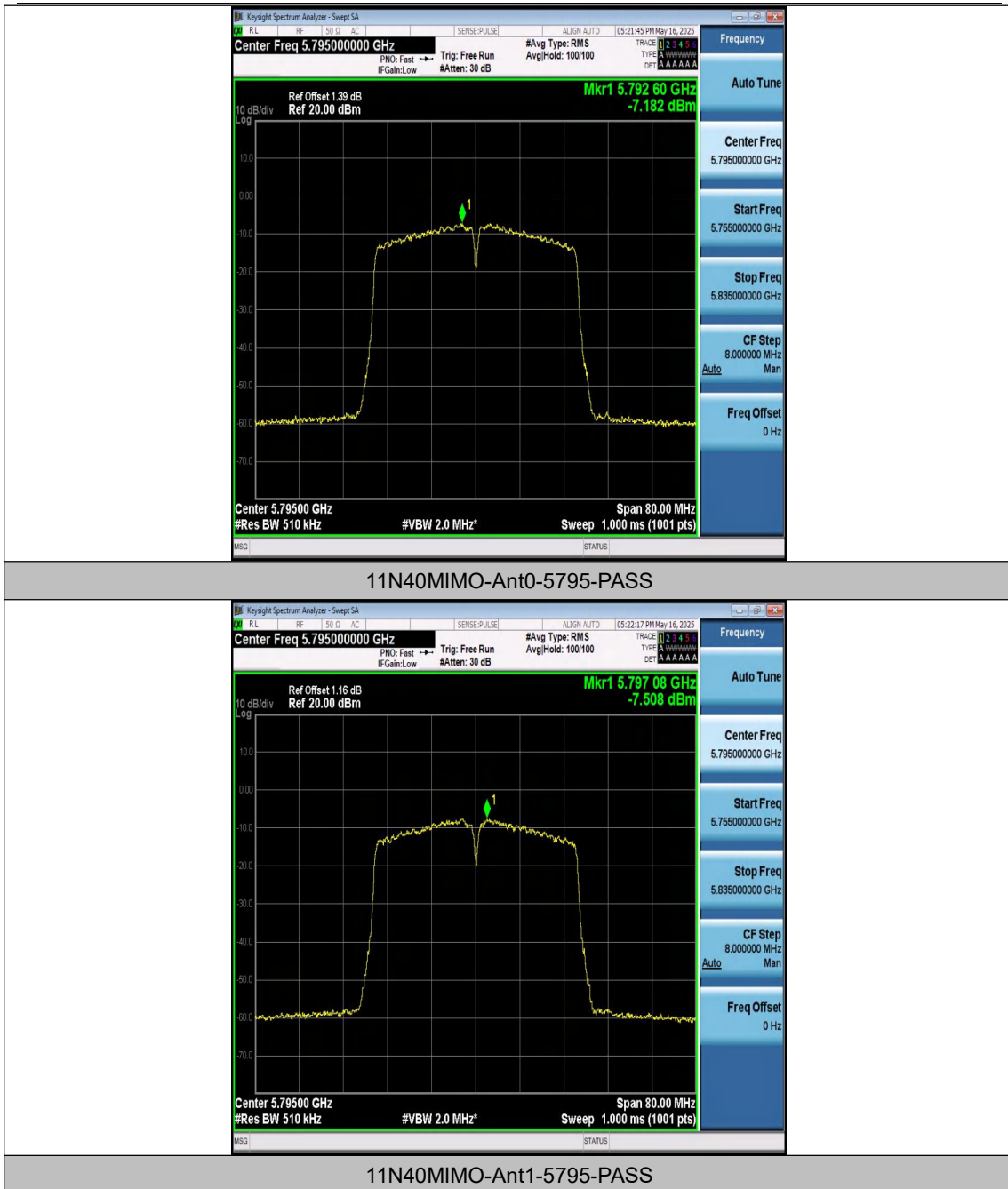
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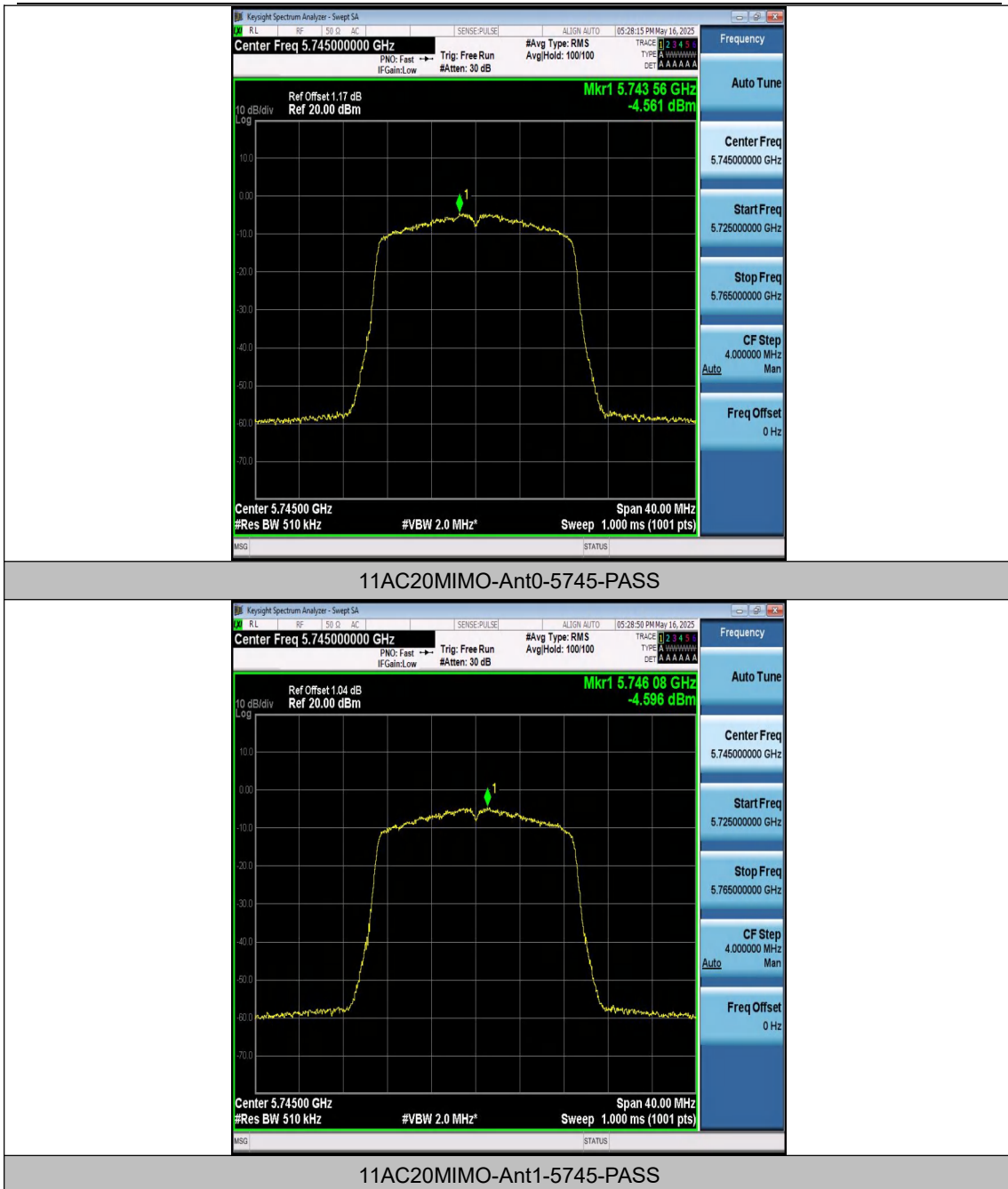


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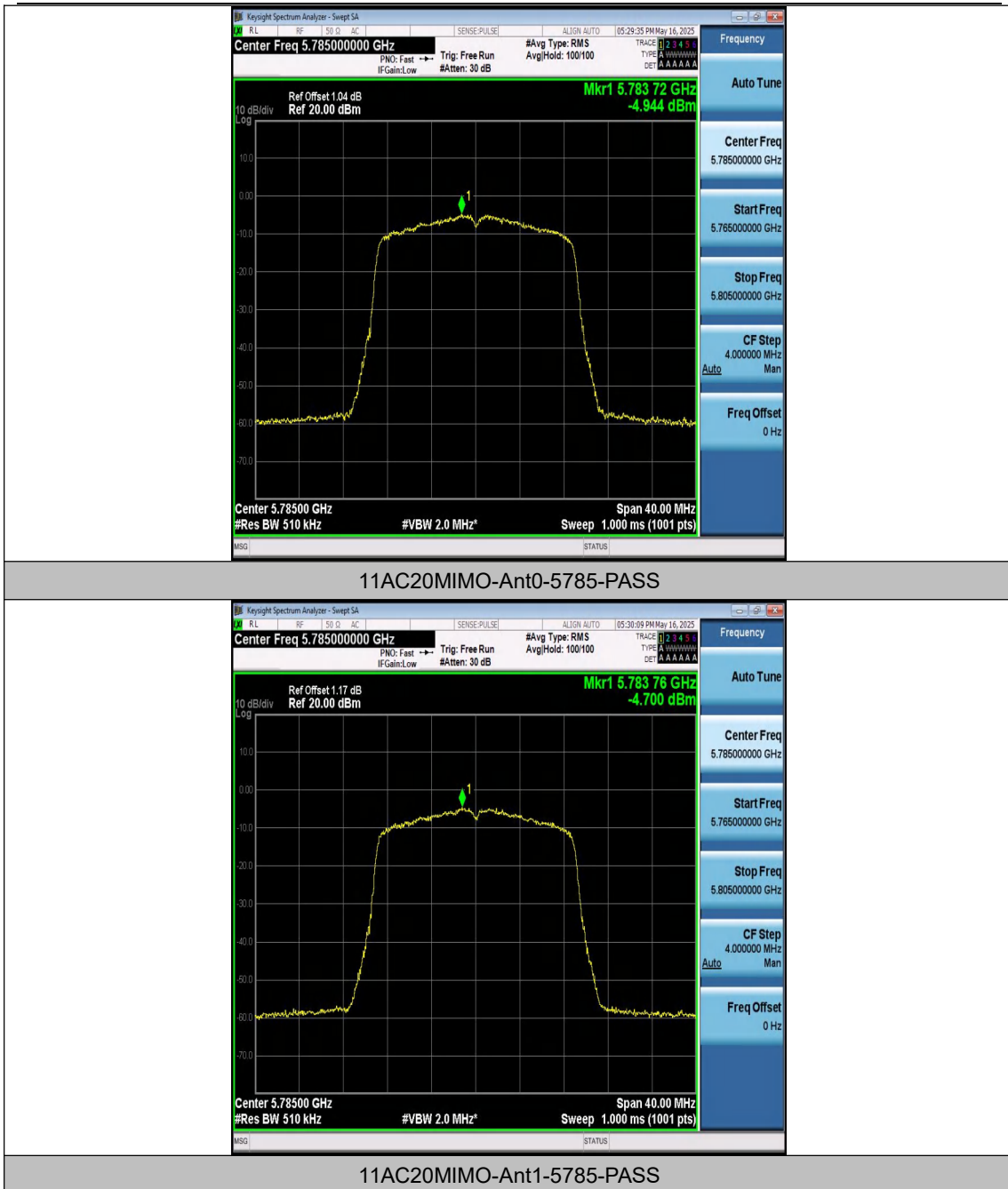
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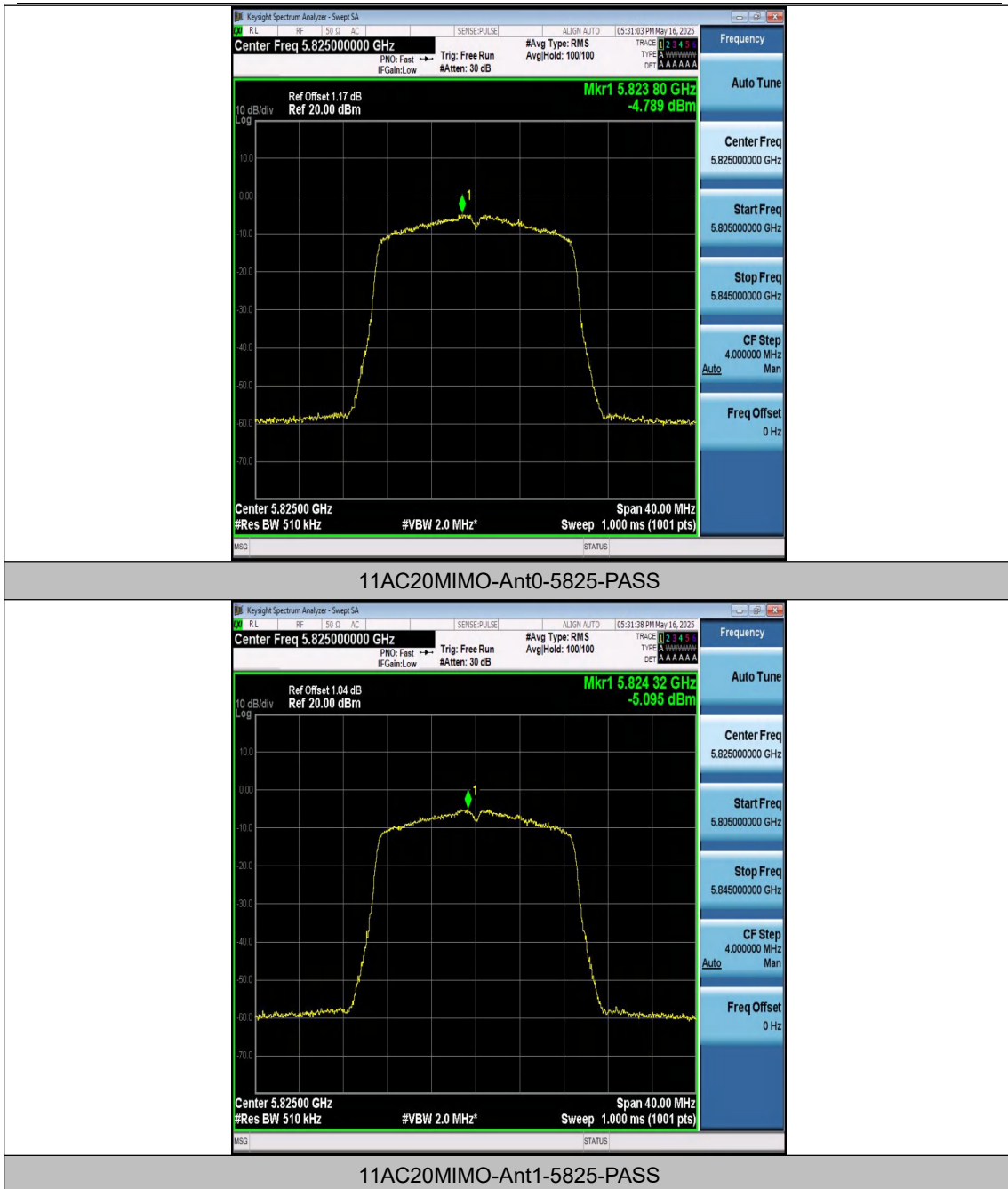
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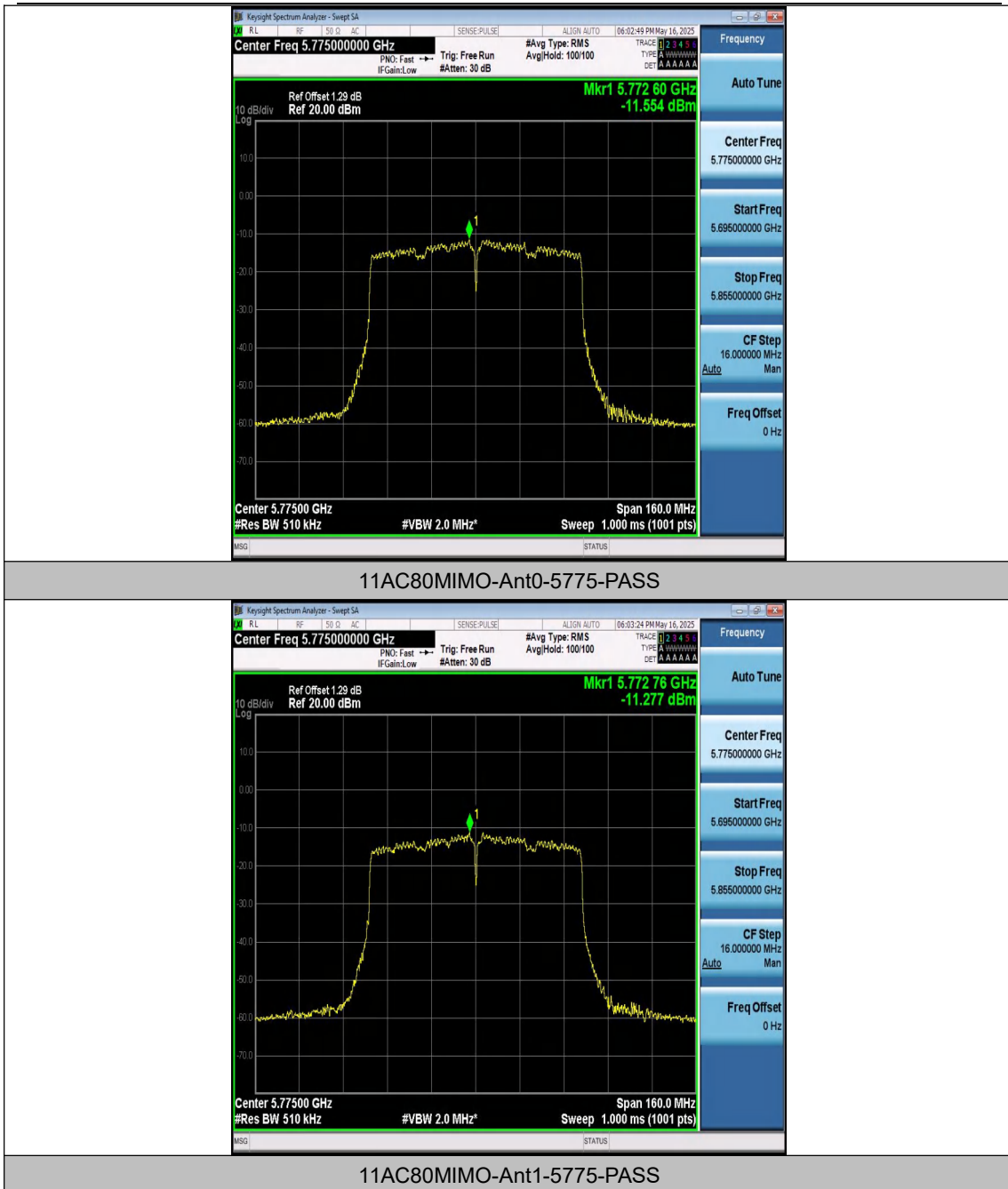


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