

## Appendix C: Maximum Conducted Output Power

### Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	---	14.06	97.06	0.13	14.19	≤23.98	PASS
11A	Ant2	5180	---	14.07	94.29	0.26	14.33	≤23.98	PASS
11A	Ant1	5220	---	13.94	97.14	0.13	14.07	≤23.98	PASS
11A	Ant2	5220	---	13.91	97.06	0.13	14.04	≤23.98	PASS
11A	Ant1	5240	---	13.85	97.06	0.13	13.98	≤23.98	PASS
11A	Ant2	5240	---	13.78	94.29	0.26	14.04	≤23.98	PASS
11A	Ant1	5745	---	14.34	97.14	0.13	14.47	≤30.00	PASS
11A	Ant2	5745	---	14.42	97.14	0.13	14.55	≤30.00	PASS
11A	Ant1	5785	---	14.24	94.29	0.26	14.50	≤30.00	PASS
11A	Ant2	5785	---	14.26	97.14	0.13	14.39	≤30.00	PASS
11A	Ant1	5825	---	14.08	97.14	0.13	14.21	≤30.00	PASS
11A	Ant2	5825	---	14.07	94.29	0.26	14.33	≤30.00	PASS
11N20MI MO	Ant1	5180	---	13.56	96.97	0.13	13.69	≤23.98	PASS
11N20MI MO	Ant2	5180	---	13.62	97.06	0.13	13.75	≤23.98	PASS
11N20MI MO	total	5180	---	---	---	---	16.73	≤23.98	PASS
11N20MI MO	Ant1	5220	---	13.47	97.06	0.13	13.60	≤23.98	PASS
11N20MI MO	Ant2	5220	---	13.47	94.12	0.26	13.73	≤23.98	PASS
11N20MI MO	total	5220	---	---	---	---	16.68	≤23.98	PASS
11N20MI MO	Ant1	5240	---	13.43	97.06	0.13	13.56	≤23.98	PASS
11N20MI MO	Ant2	5240	---	13.38	96.97	0.13	13.51	≤23.98	PASS
11N20MI MO	total	5240	---	---	---	---	16.55	≤23.98	PASS
11N20MI MO	Ant1	5745	---	13.98	96.97	0.13	14.11	≤30.00	PASS
11N20MI MO	Ant2	5745	---	14.03	94.12	0.26	14.29	≤30.00	PASS

11N20MI MO	total	5745	---	---	---	---	17.21	≤30.00	PASS
11N20MI MO	Ant1	5785	---	13.82	97.06	0.13	13.95	≤30.00	PASS
11N20MI MO	Ant2	5785	---	13.80	97.06	0.13	13.93	≤30.00	PASS
11N20MI MO	total	5785	---	---	---	---	16.95	≤30.00	PASS
11N20MI MO	Ant1	5825	---	13.59	94.12	0.26	13.85	≤30.00	PASS
11N20MI MO	Ant2	5825	---	13.55	97.06	0.13	13.68	≤30.00	PASS
11N20MI MO	total	5825	---	---	---	---	16.78	≤30.00	PASS
11N40MI MO	Ant1	5190	---	13.92	94.74	0.23	14.15	≤23.98	PASS
11N40MI MO	Ant2	5190	---	13.89	94.74	0.23	14.12	≤23.98	PASS
11N40MI MO	total	5190	---	---	---	---	17.15	≤23.98	PASS
11N40MI MO	Ant1	5230	---	13.67	94.74	0.23	13.90	≤23.98	PASS
11N40MI MO	Ant2	5230	---	13.62	94.74	0.23	13.85	≤23.98	PASS
11N40MI MO	total	5230	---	---	---	---	16.89	≤23.98	PASS
11N40MI MO	Ant1	5755	---	14.11	89.47	0.48	14.59	≤30.00	PASS
11N40MI MO	Ant2	5755	---	14.16	94.74	0.23	14.39	≤30.00	PASS
11N40MI MO	total	5755	---	---	---	---	17.50	≤30.00	PASS
11N40MI MO	Ant1	5795	---	14.16	94.74	0.23	14.39	≤30.00	PASS
11N40MI MO	Ant2	5795	---	14.05	94.74	0.23	14.28	≤30.00	PASS
11N40MI MO	total	5795	---	---	---	---	17.35	≤30.00	PASS
11AC20M IMO	Ant1	5180	---	13.79	97.06	0.13	13.92	≤23.98	PASS
11AC20M IMO	Ant2	5180	---	13.87	97.06	0.13	14.00	≤23.98	PASS
11AC20M	total	5180	---	---	---	---	16.97	≤23.98	PASS

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IMO									
11AC20M IMO	Ant1	5220	---	13.26	97.06	0.13	13.39	≤23.98	PASS
11AC20M IMO	Ant2	5220	---	13.34	97.06	0.13	13.47	≤23.98	PASS
11AC20M IMO	total	5220	---	---	---	---	16.44	≤23.98	PASS
11AC20M IMO	Ant1	5240	---	13.37	97.06	0.13	13.50	≤23.98	PASS
11AC20M IMO	Ant2	5240	---	13.31	97.06	0.13	13.44	≤23.98	PASS
11AC20M IMO	total	5240	---	---	---	---	16.48	≤23.98	PASS
11AC20M IMO	Ant1	5745	---	13.97	94.29	0.26	14.23	≤30.00	PASS
11AC20M IMO	Ant2	5745	---	13.94	97.06	0.13	14.07	≤30.00	PASS
11AC20M IMO	total	5745	---	---	---	---	17.16	≤30.00	PASS
11AC20M IMO	Ant1	5785	---	13.81	97.06	0.13	13.94	≤30.00	PASS
11AC20M IMO	Ant2	5785	---	13.82	94.12	0.26	14.08	≤30.00	PASS
11AC20M IMO	total	5785	---	---	---	---	17.02	≤30.00	PASS
11AC20M IMO	Ant1	5825	---	13.65	97.06	0.13	13.78	≤30.00	PASS
11AC20M IMO	Ant2	5825	---	13.61	97.06	0.13	13.74	≤30.00	PASS
11AC20M IMO	total	5825	---	---	---	---	16.77	≤30.00	PASS
11AC40M IMO	Ant1	5190	---	13.99	94.74	0.23	14.22	≤23.98	PASS
11AC40M IMO	Ant2	5190	---	14.03	94.74	0.23	14.26	≤23.98	PASS
11AC40M IMO	total	5190	---	---	---	---	17.25	≤23.98	PASS
11AC40M IMO	Ant1	5230	---	13.85	94.74	0.23	14.08	≤23.98	PASS
11AC40M IMO	Ant2	5230	---	13.91	94.74	0.23	14.14	≤23.98	PASS
11AC40M IMO	total	5230	---	---	---	---	17.12	≤23.98	PASS

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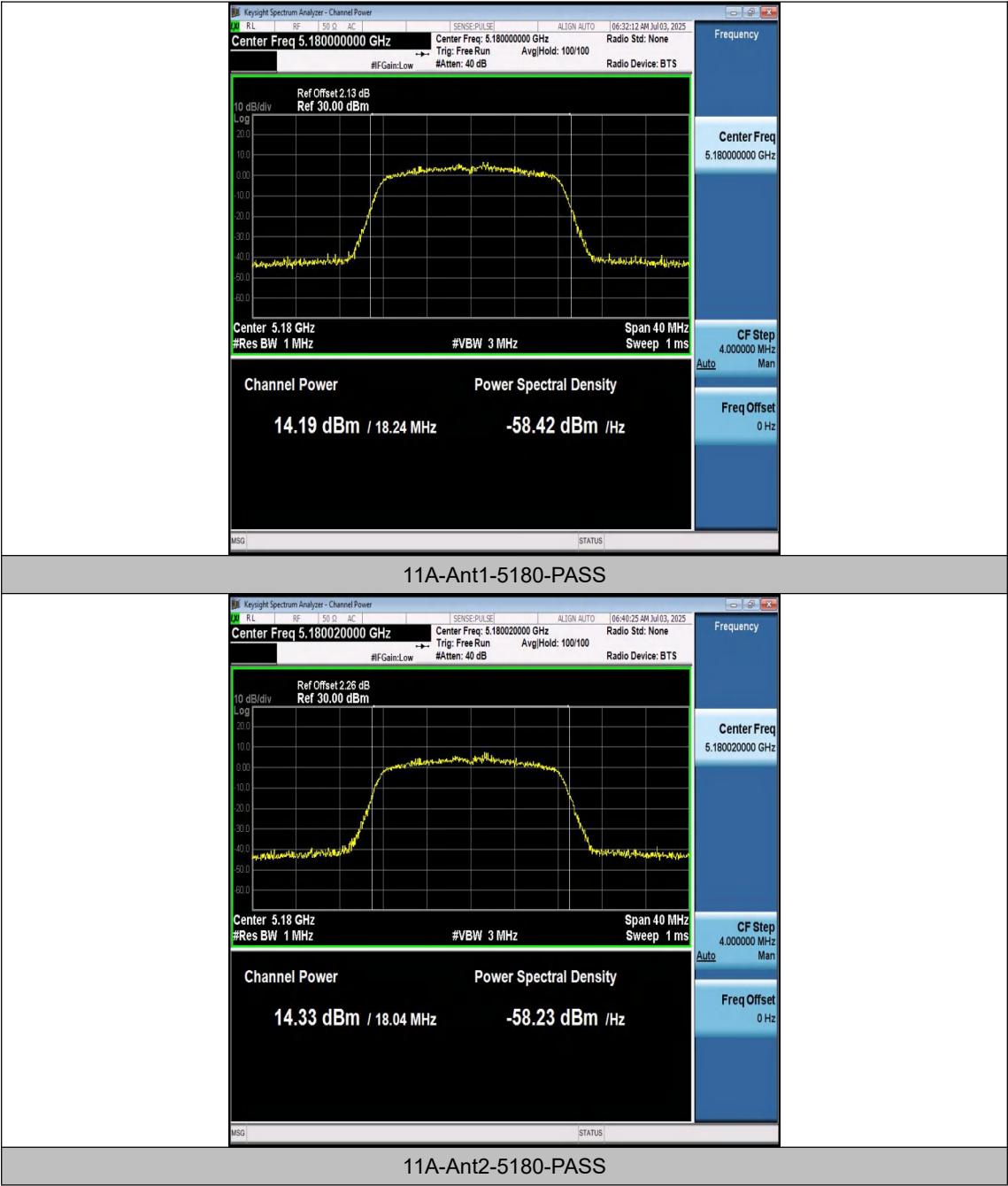
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11AC40M IMO	Ant1	5755	---	14.26	94.74	0.23	14.49	≤30.00	PASS
11AC40M IMO	Ant2	5755	---	14.30	94.74	0.23	14.53	≤30.00	PASS
11AC40M IMO	total	5755	---	---	---	---	17.52	≤30.00	PASS
11AC40M IMO	Ant1	5795	---	14.22	90.00	0.46	14.68	≤30.00	PASS
11AC40M IMO	Ant2	5795	---	14.13	90.00	0.46	14.59	≤30.00	PASS
11AC40M IMO	total	5795	---	---	---	---	<b>17.65</b>	≤30.00	PASS
11AC80M IMO	Ant1	5210	---	13.55	90.91	0.41	13.96	≤23.98	PASS
11AC80M IMO	Ant2	5210	---	13.59	91.67	0.38	13.97	≤23.98	PASS
11AC80M IMO	total	5210	---	---	---	---	16.98	≤23.98	PASS
11AC80M IMO	Ant1	5775	---	13.98	90.91	0.41	14.39	≤30.00	PASS
11AC80M IMO	Ant2	5775	---	13.98	83.33	0.79	14.77	≤30.00	PASS
11AC80M IMO	total	5775	---	---	---	---	17.59	≤30.00	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.  
2. For 5.2G: As Directional gain =  $10 \log[(10G1/20 + 10G2/20) 2 /NANT]$  dBi=4.48<6dBi,  
so limit=23.98dBm.  
For 5.8G: As Directional gain =  $10 \log[(10G1/20 + 10G2/20) 2 /NANT]$  dBi=5.31<6dBi,  
so limit=30dBm.  
3. NOTE: MIMO=  $10 \cdot \log((10^{ANT1/10})+10^{(ANT2/10)})$

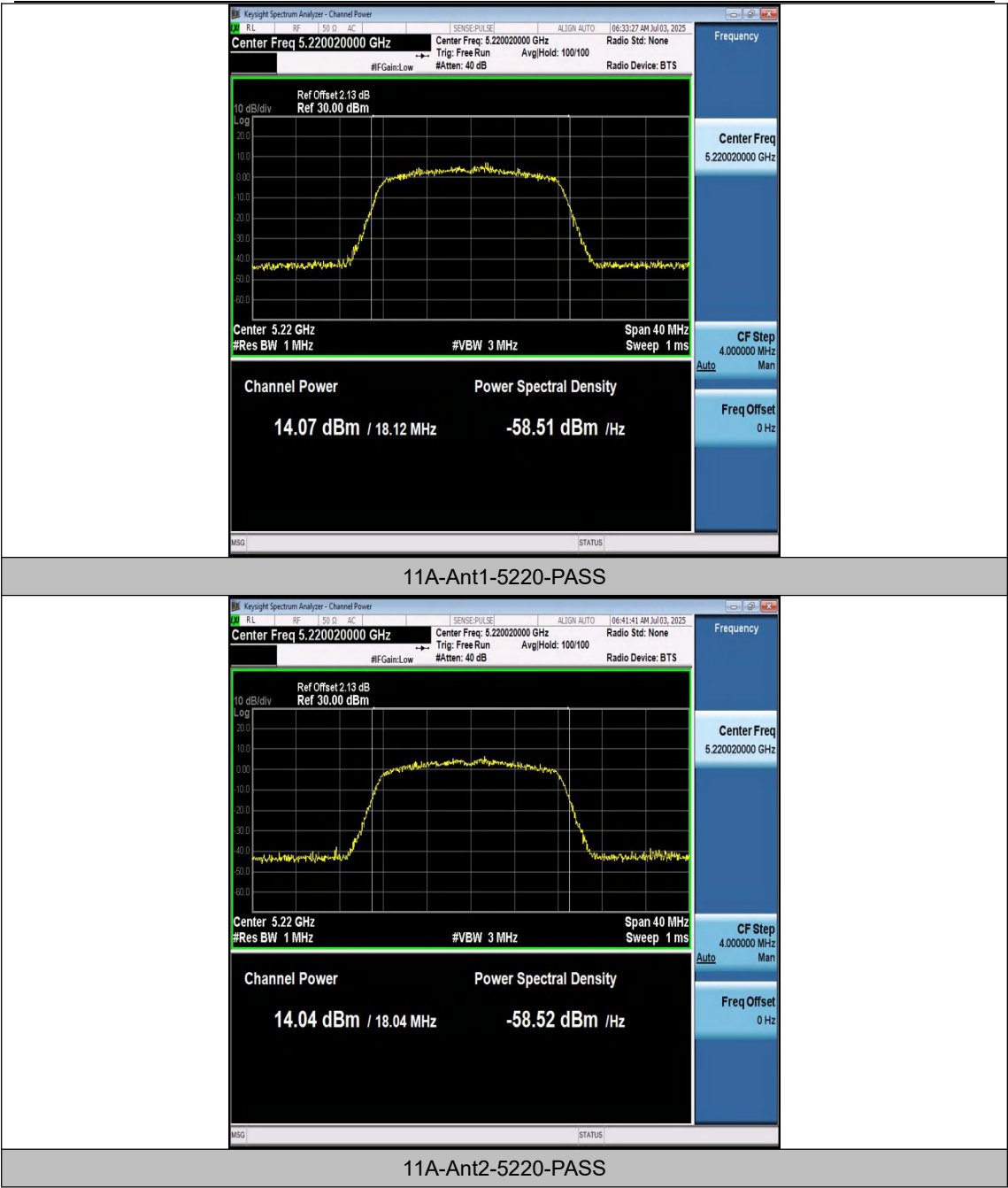
Test Graphs Channel Power



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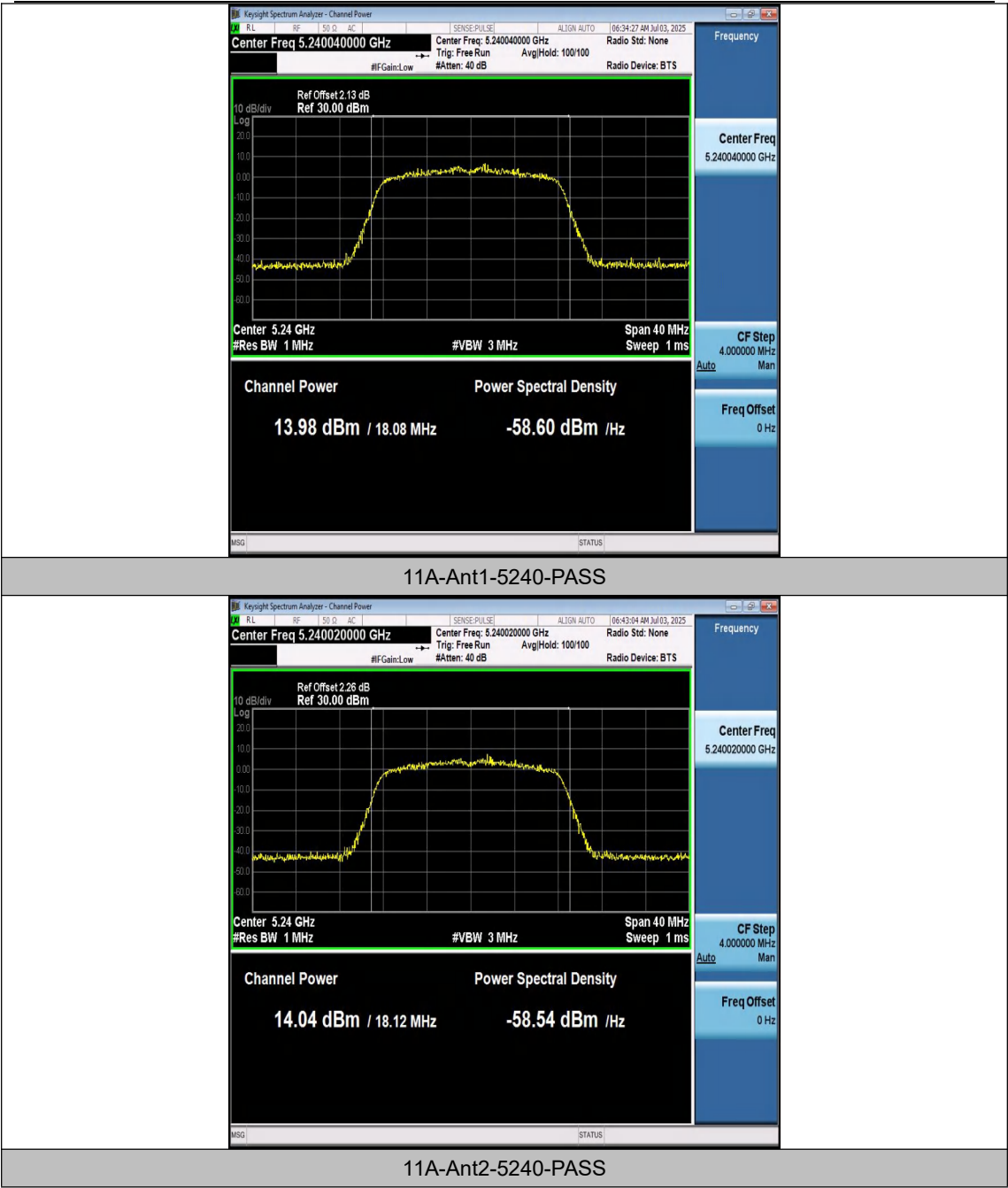
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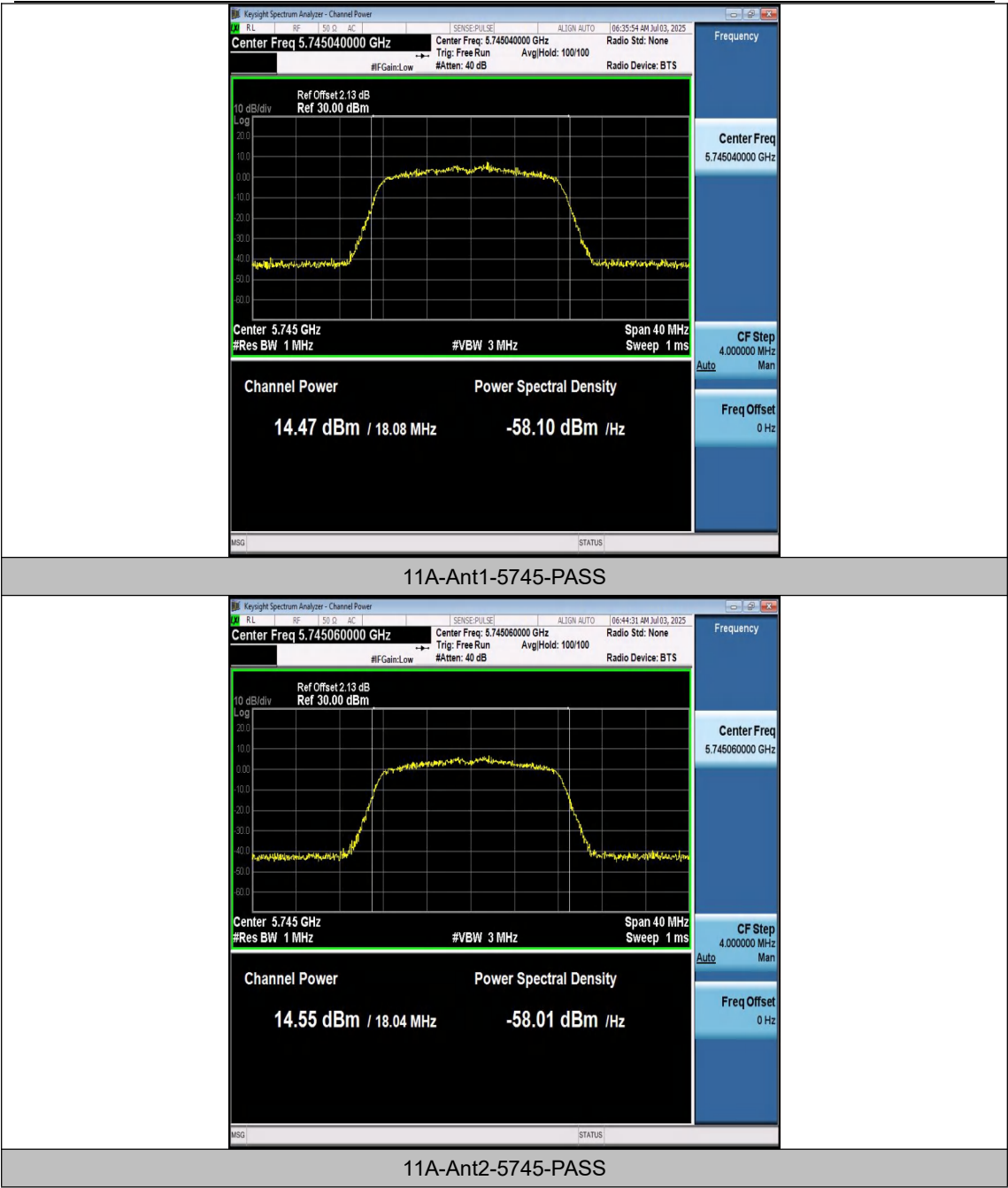




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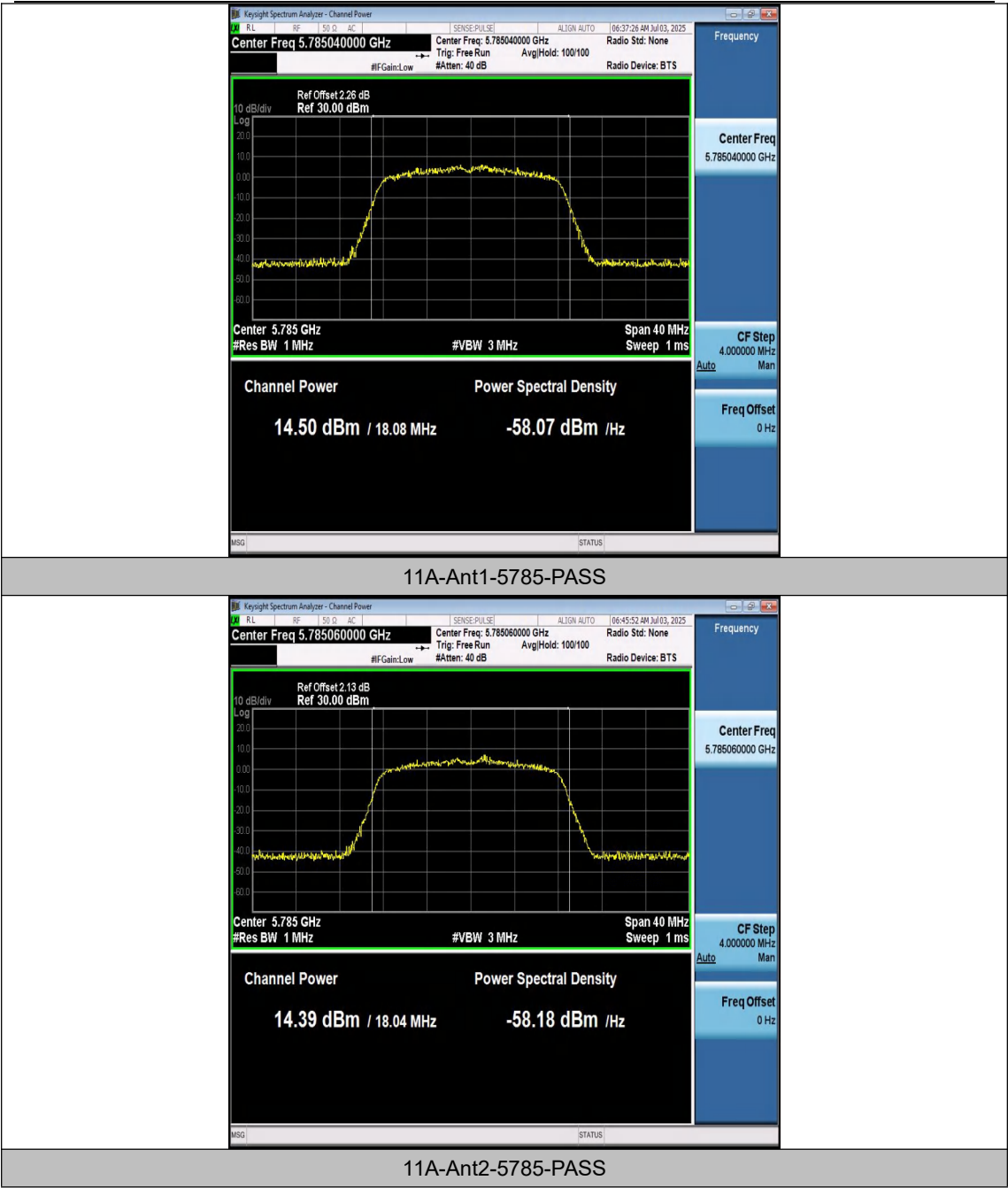




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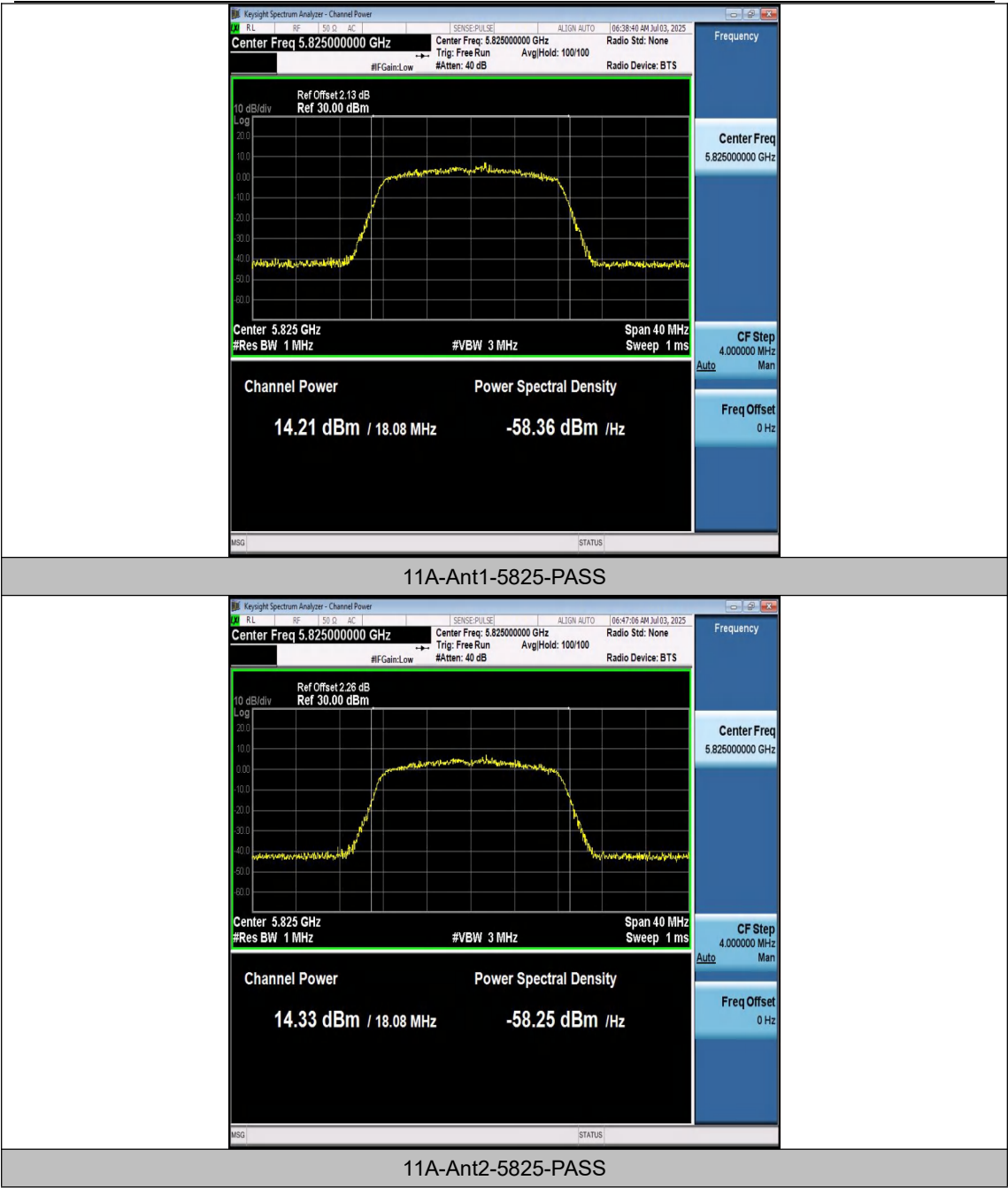
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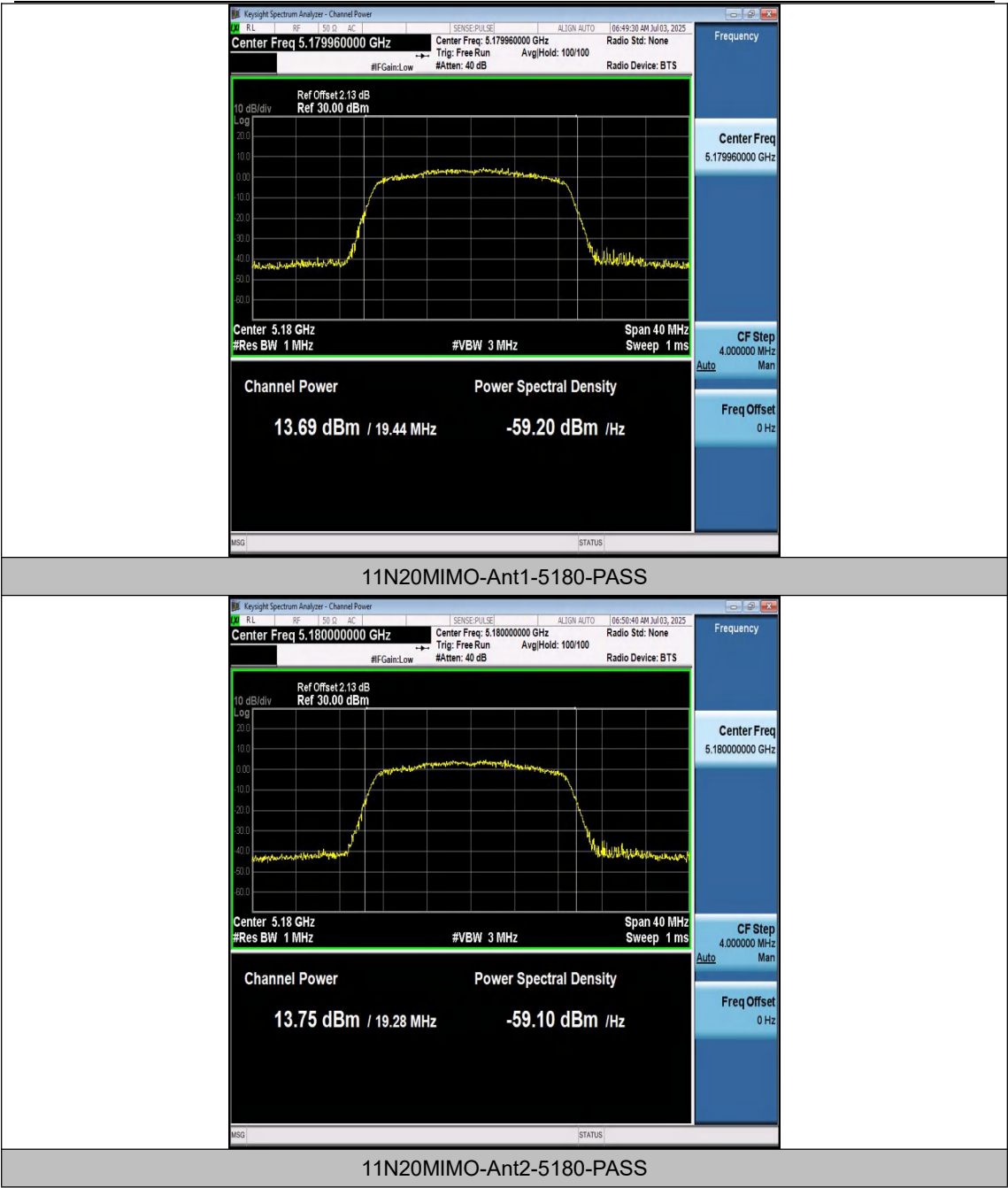


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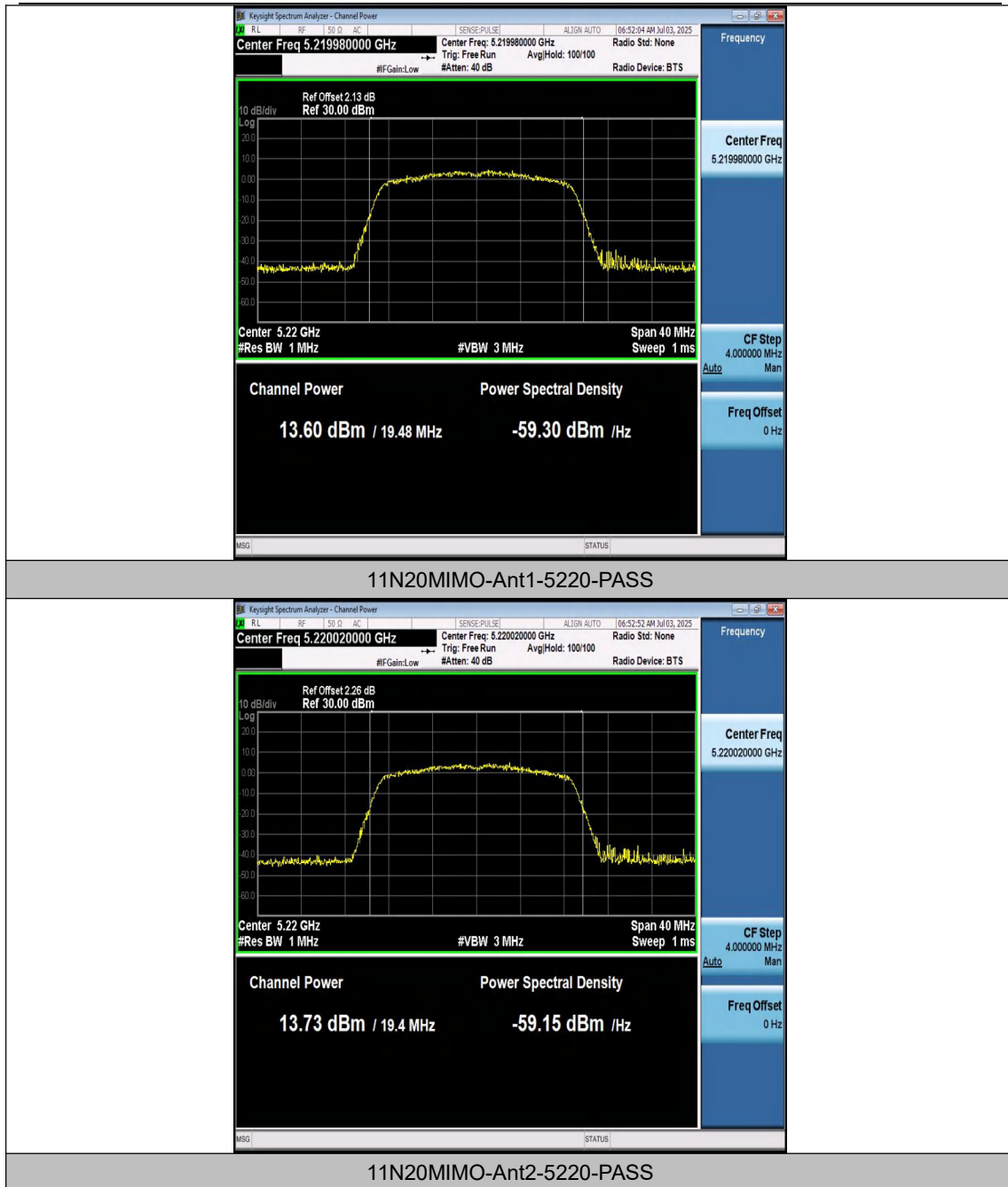






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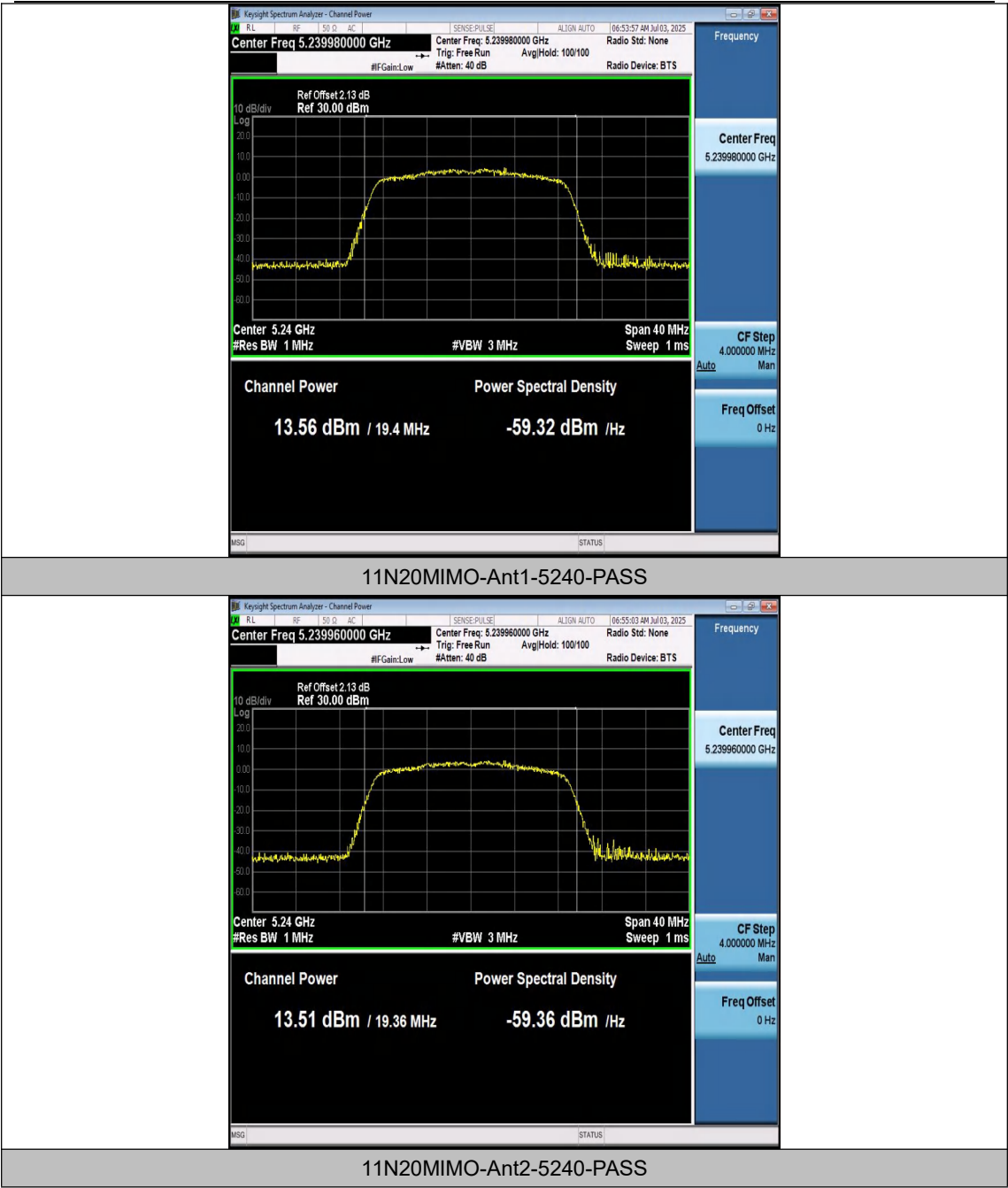
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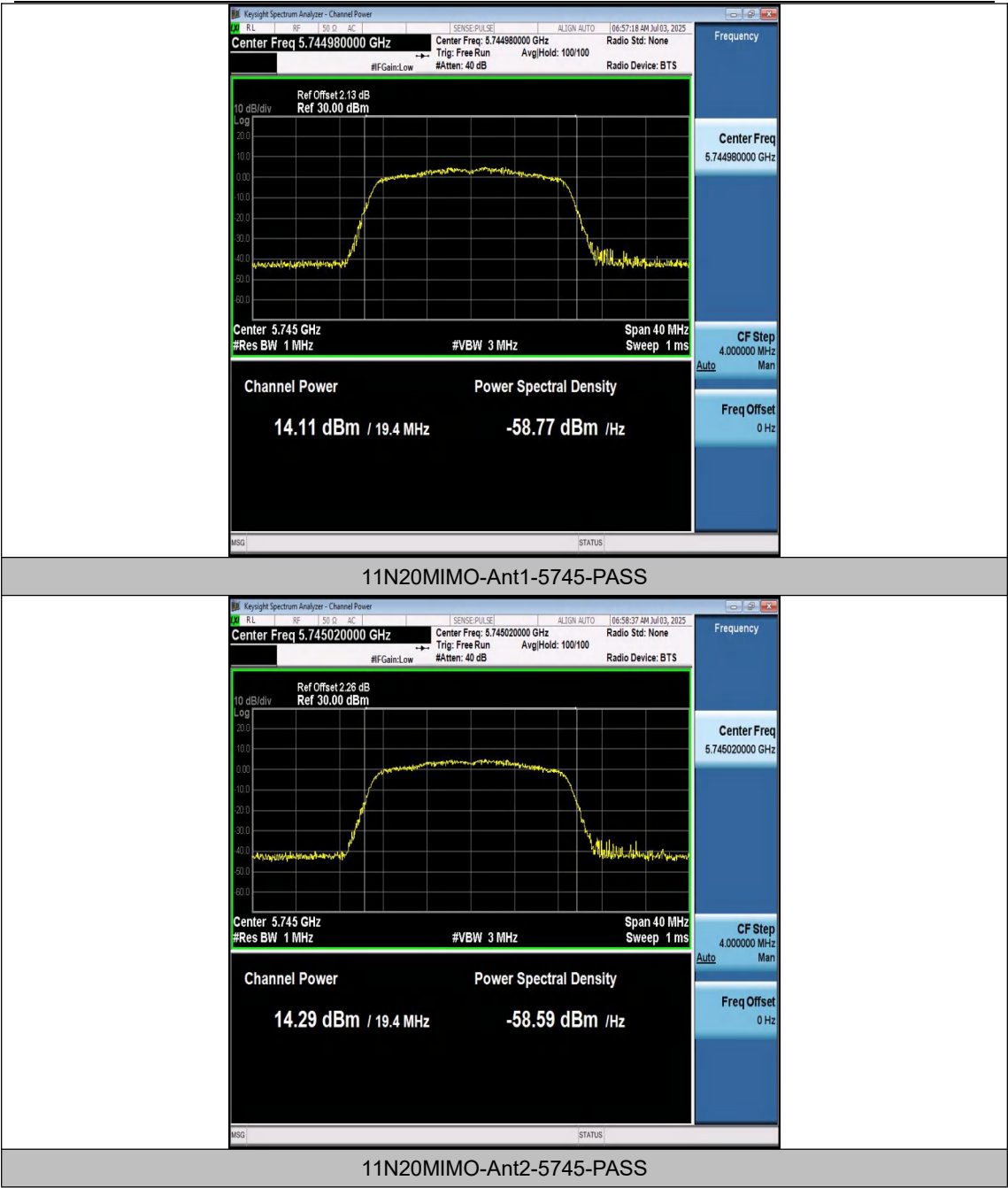
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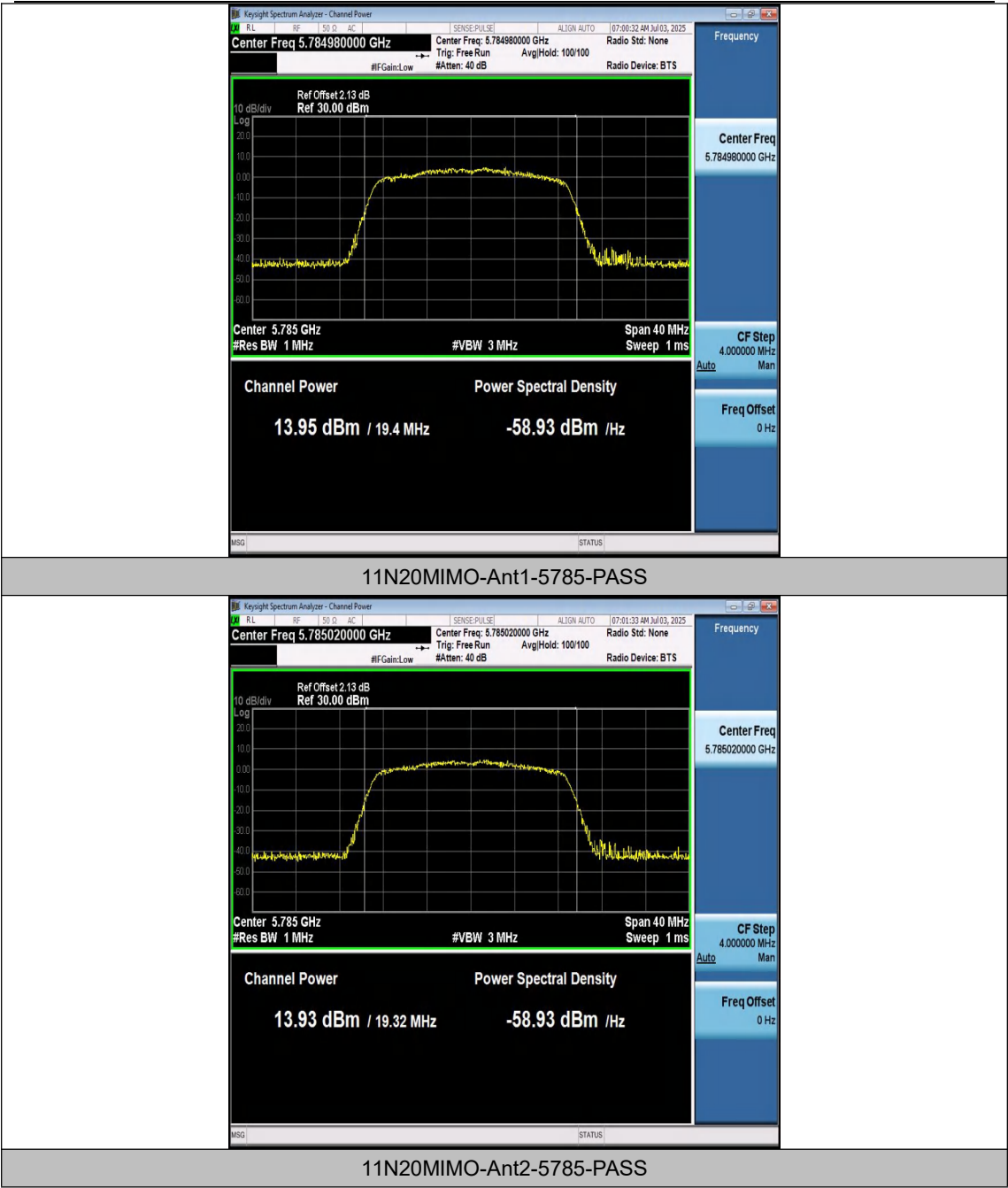
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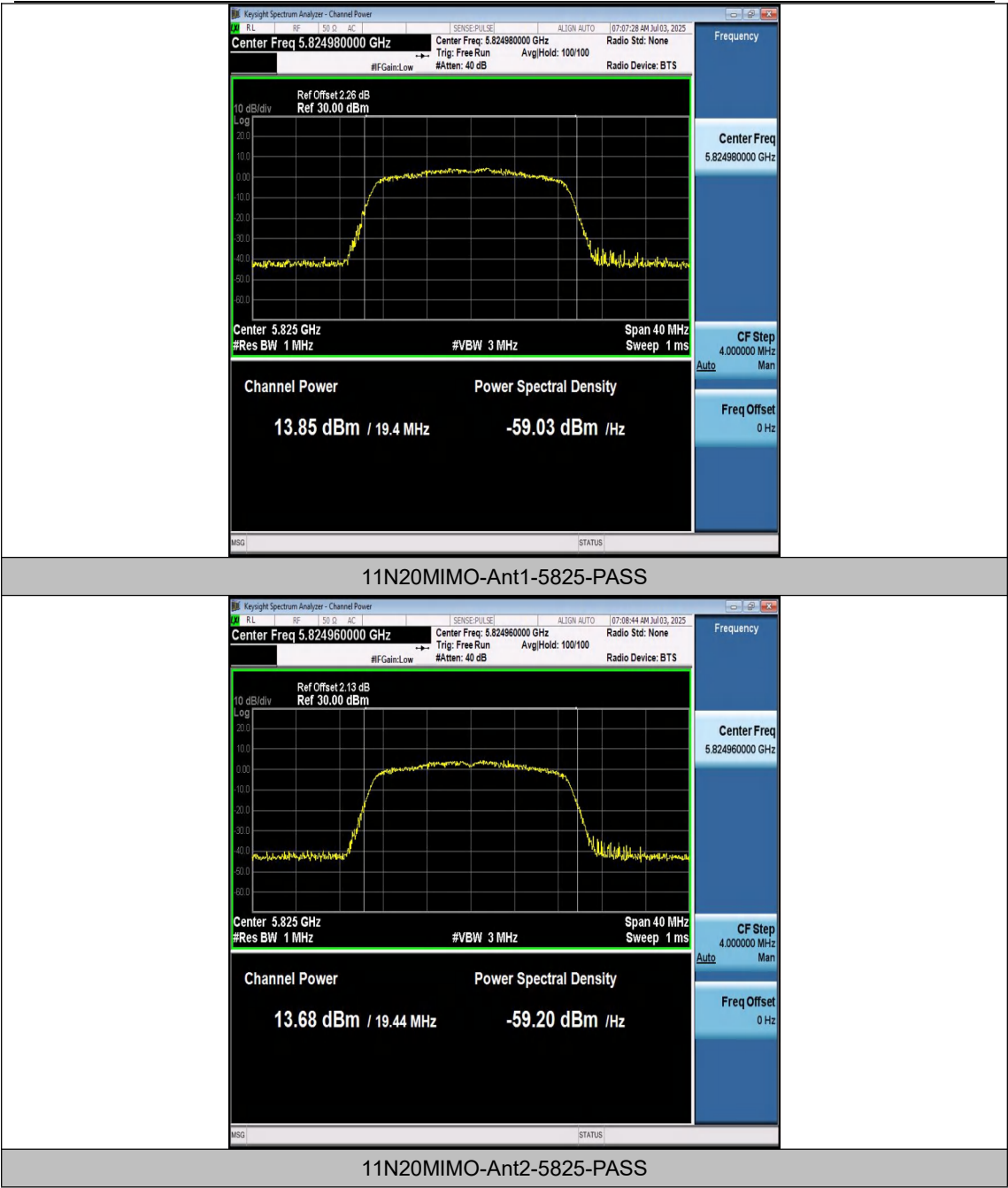
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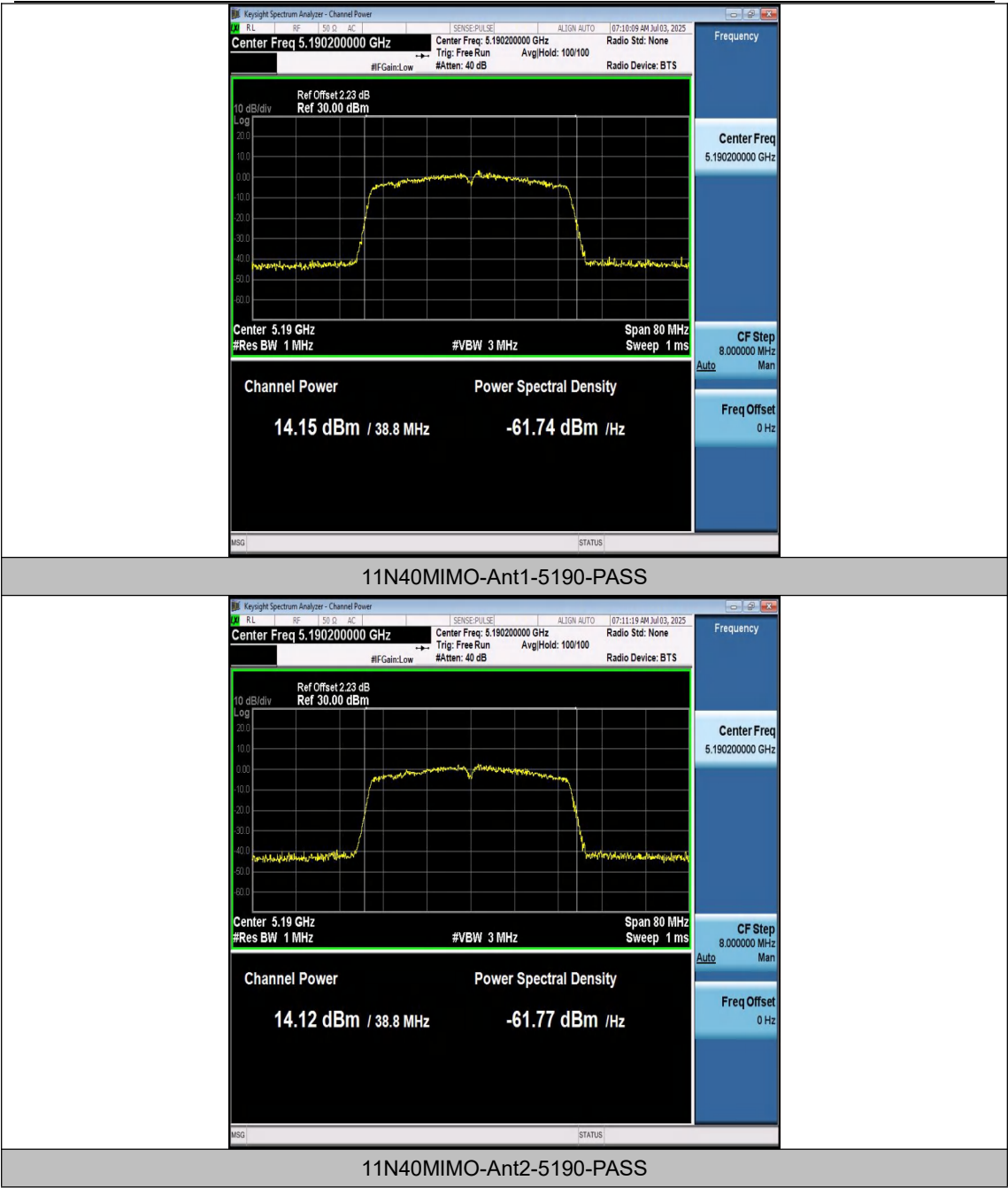




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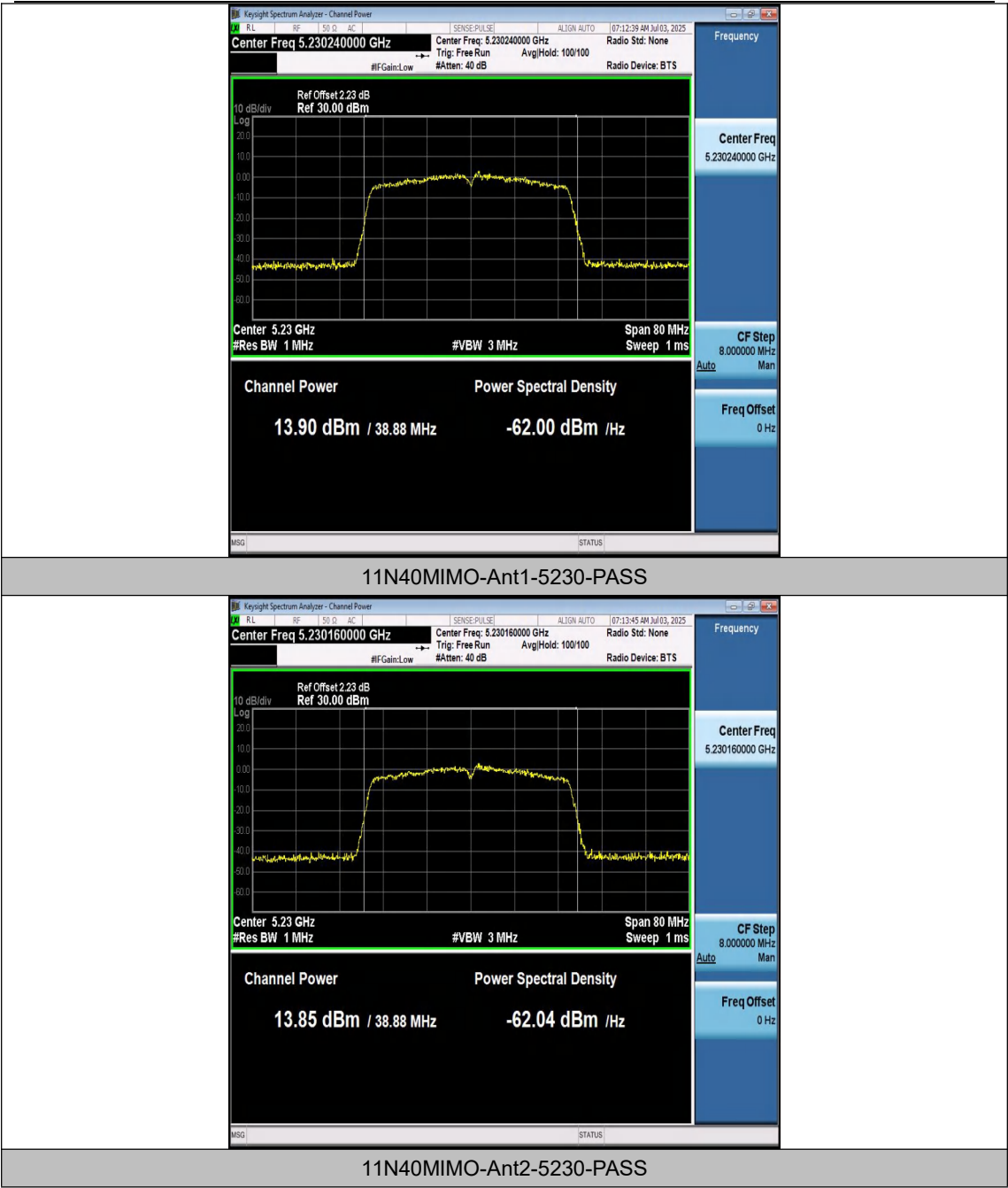
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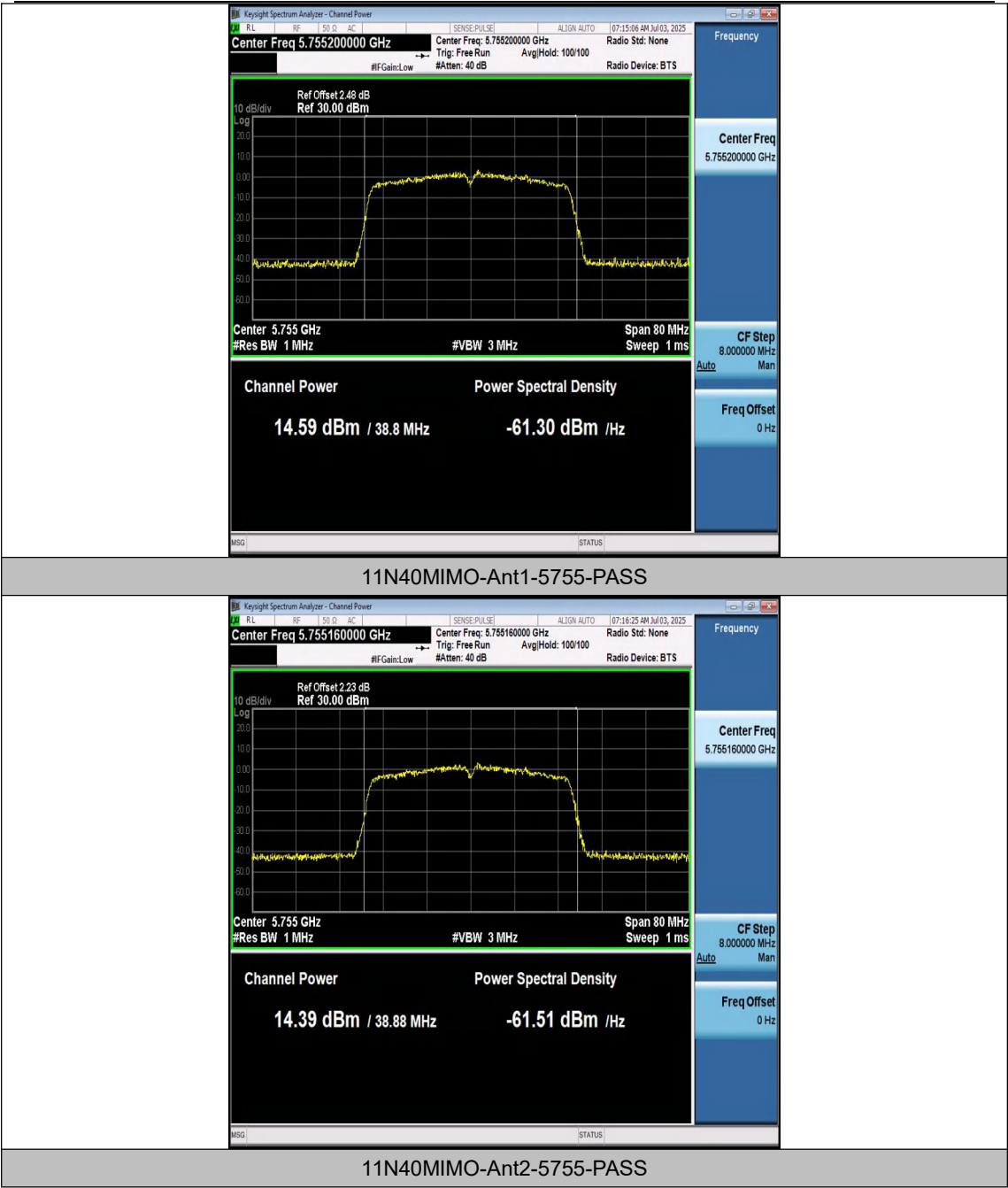
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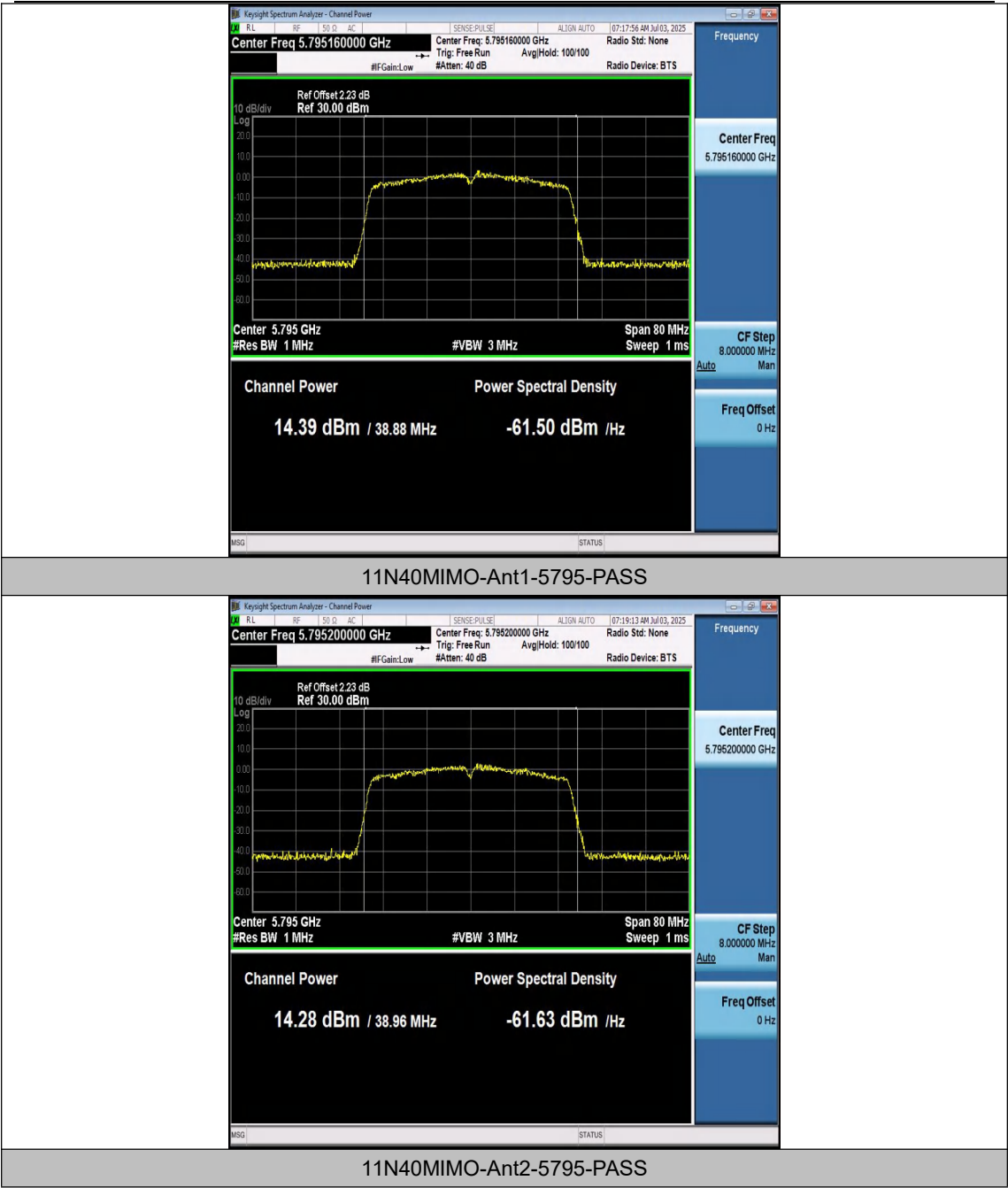


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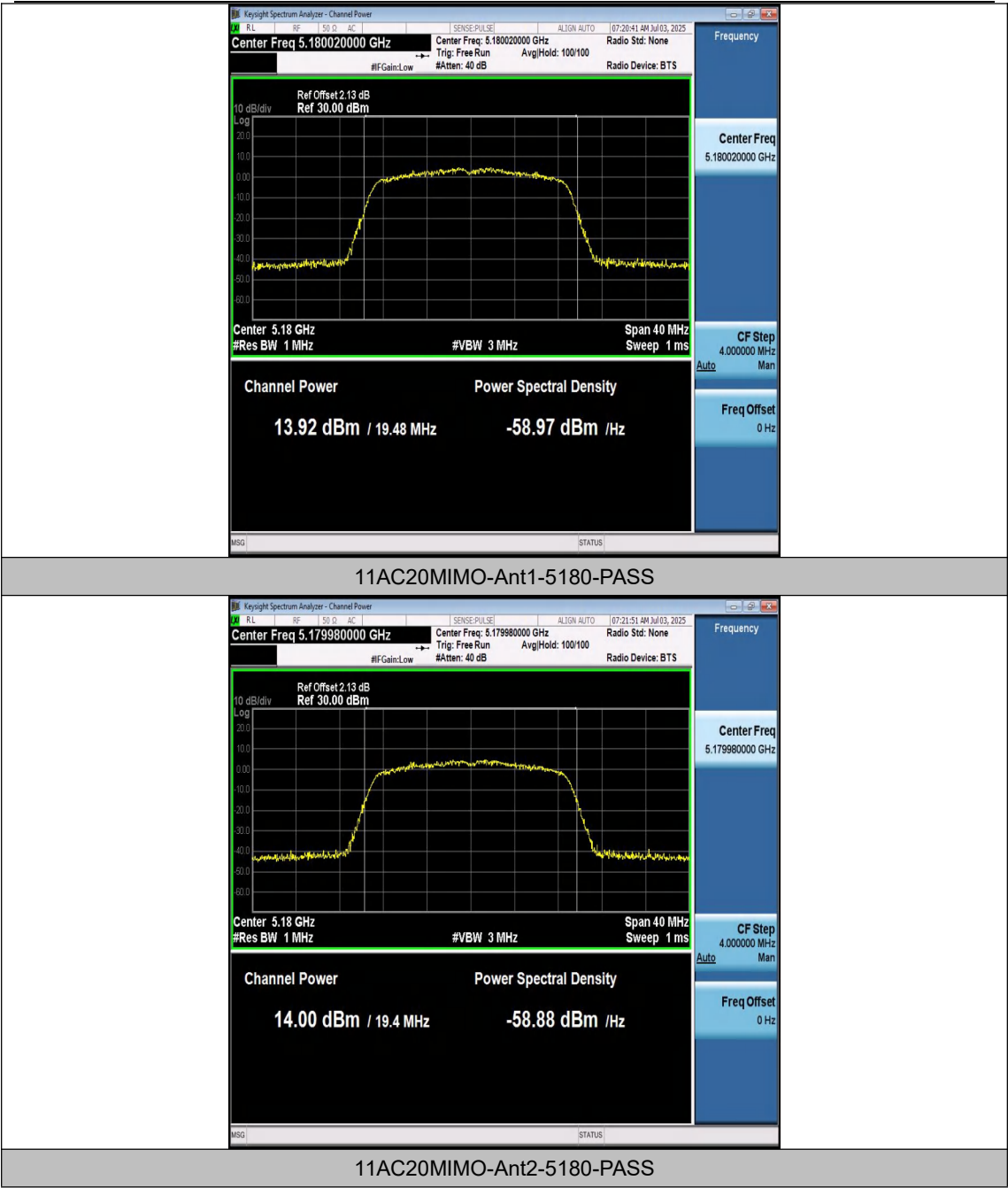


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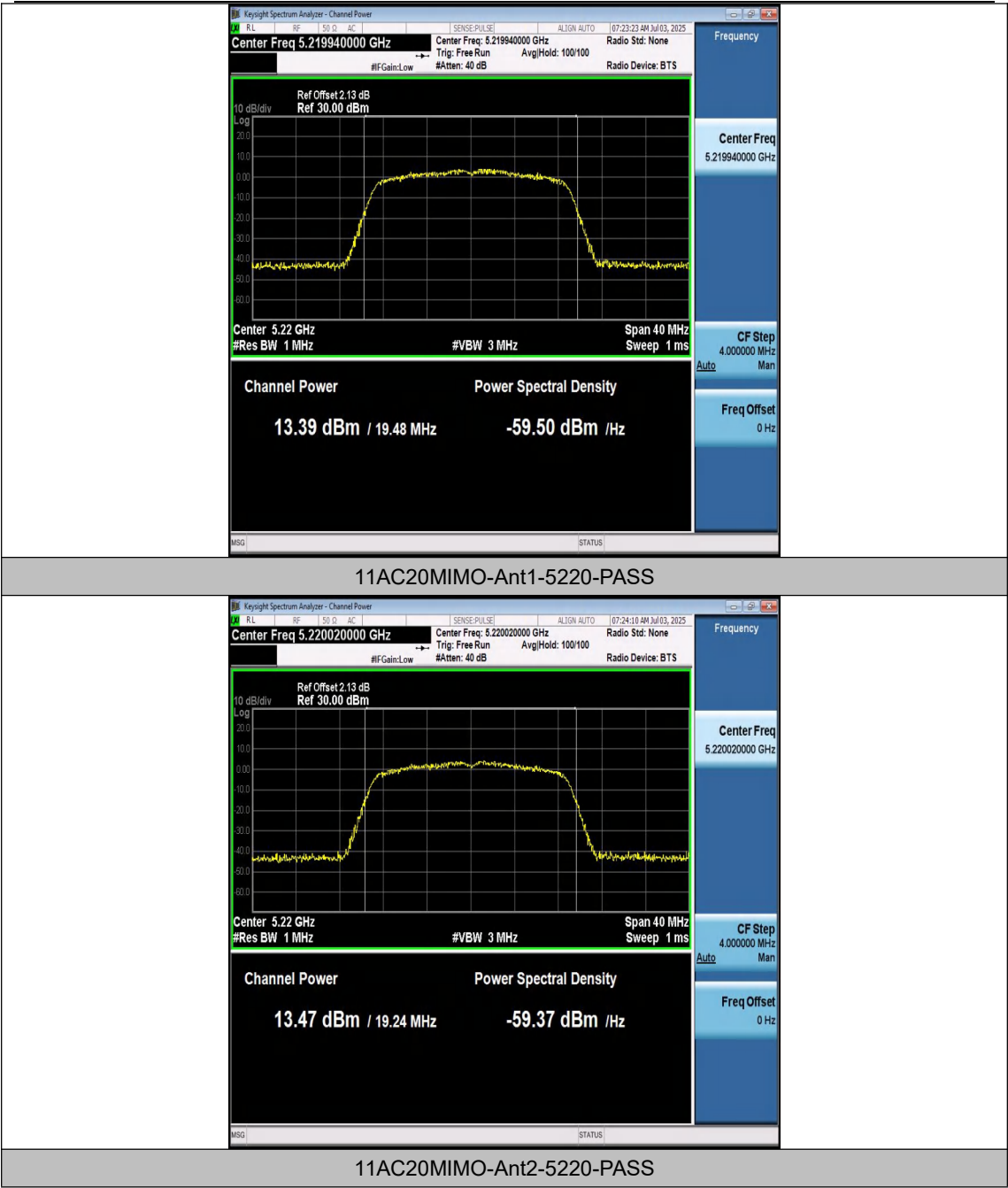


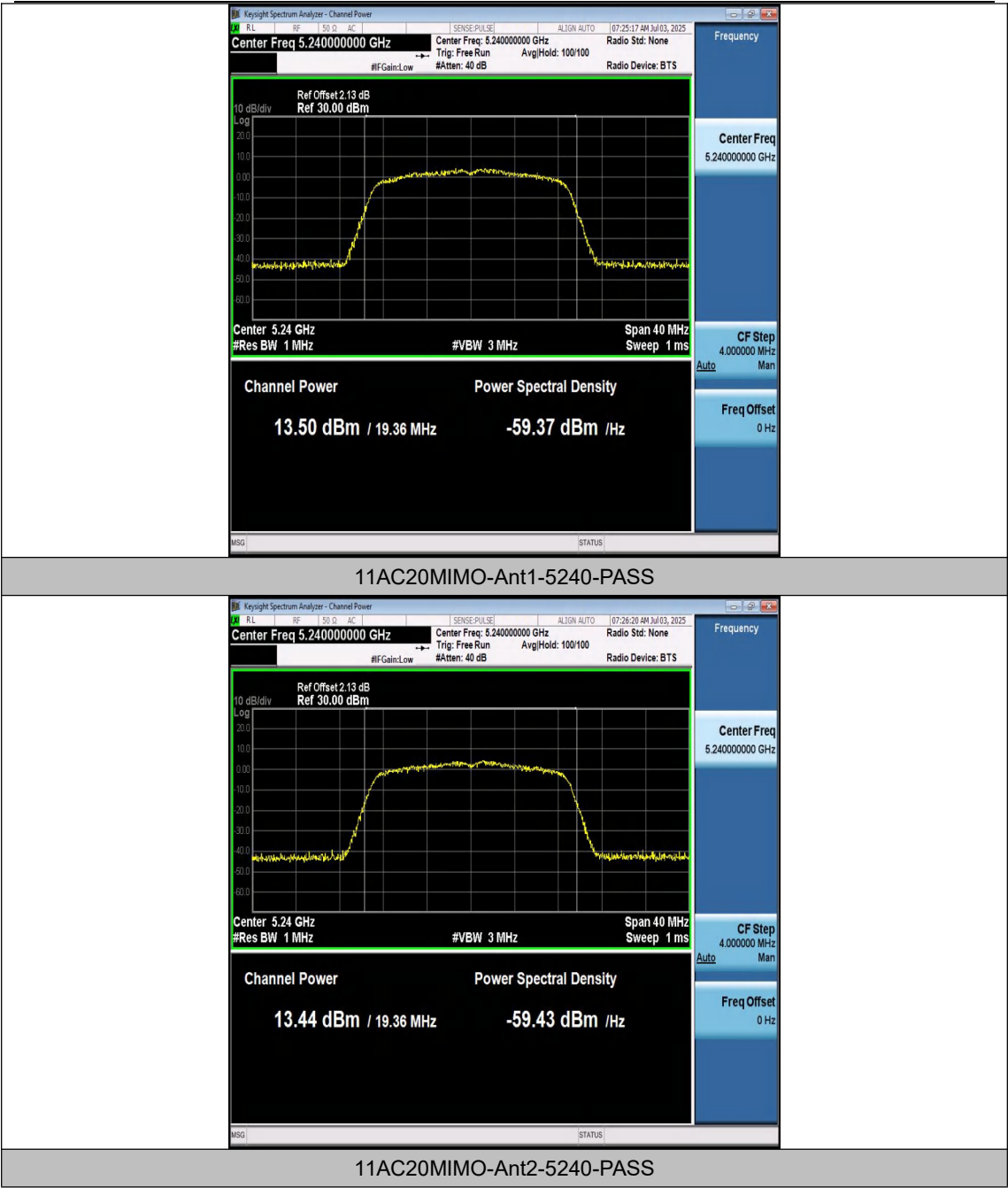


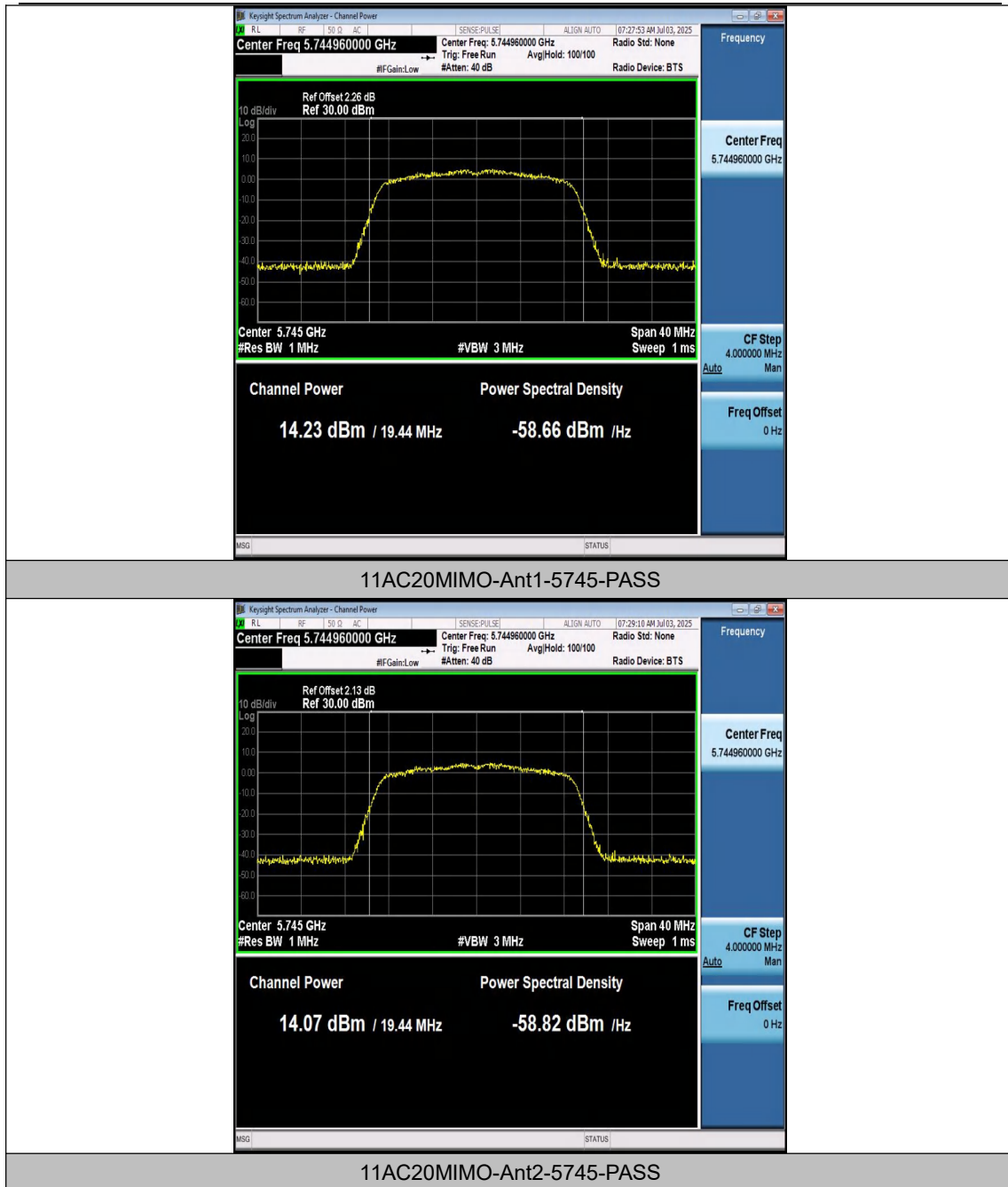
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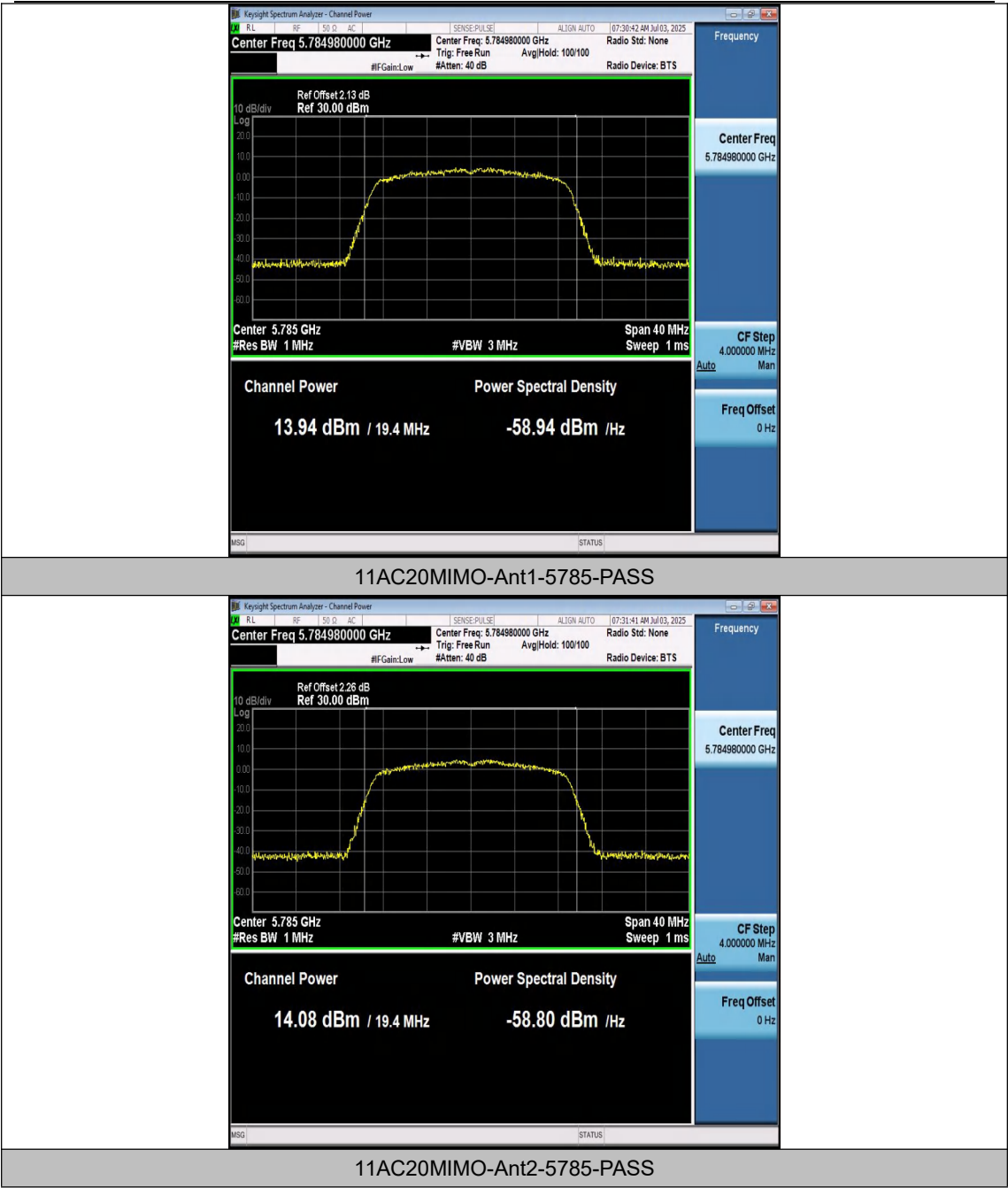




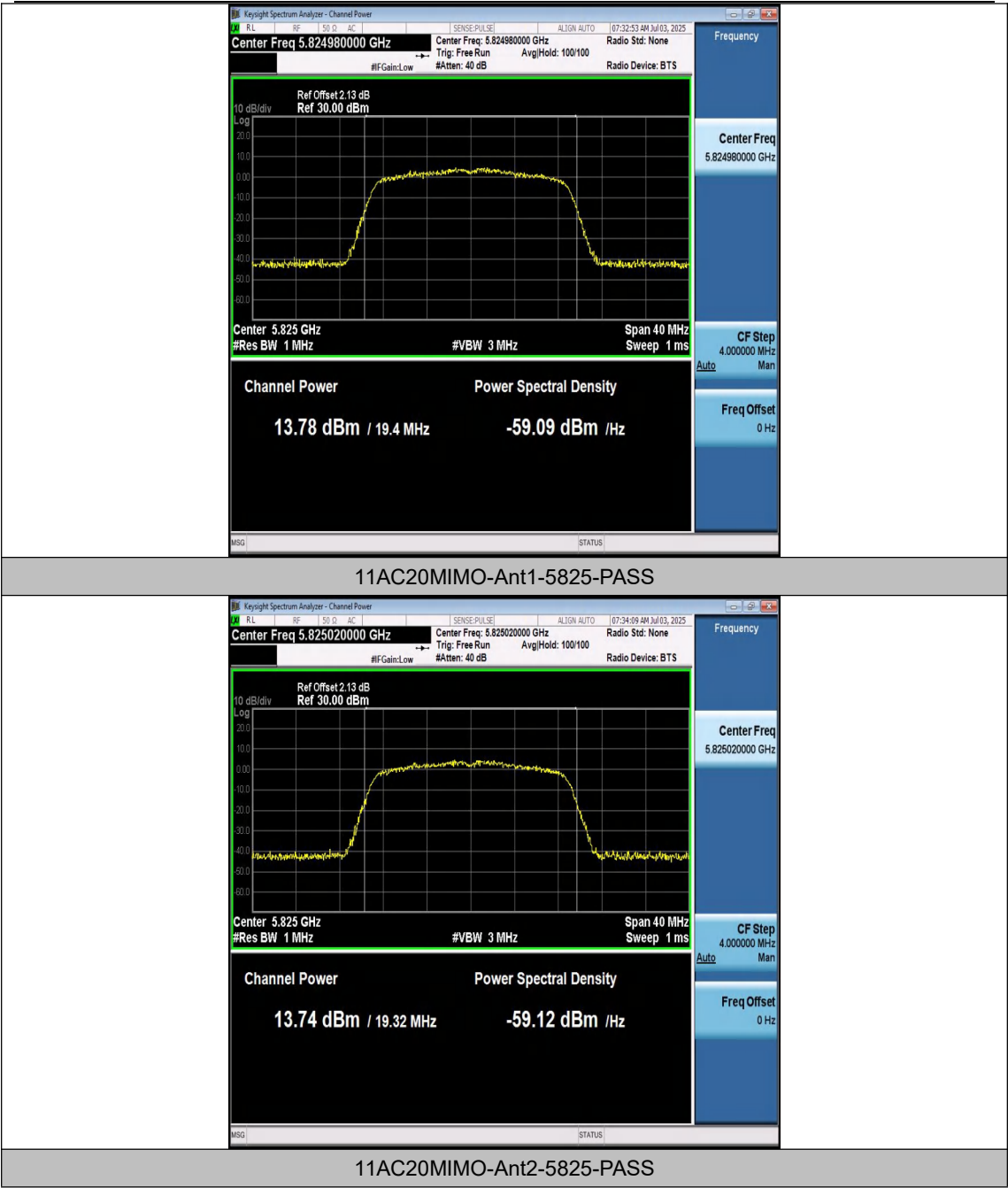
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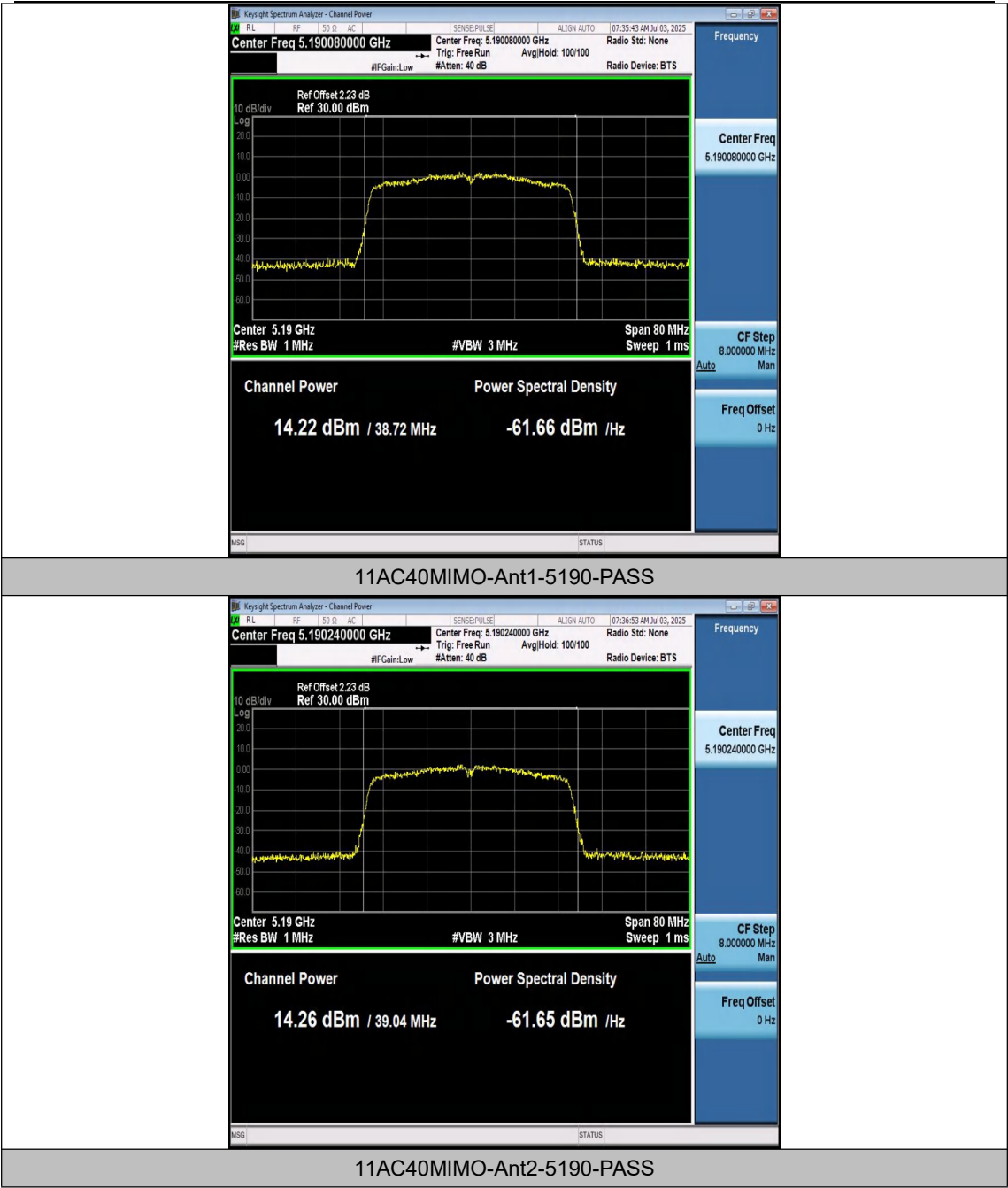






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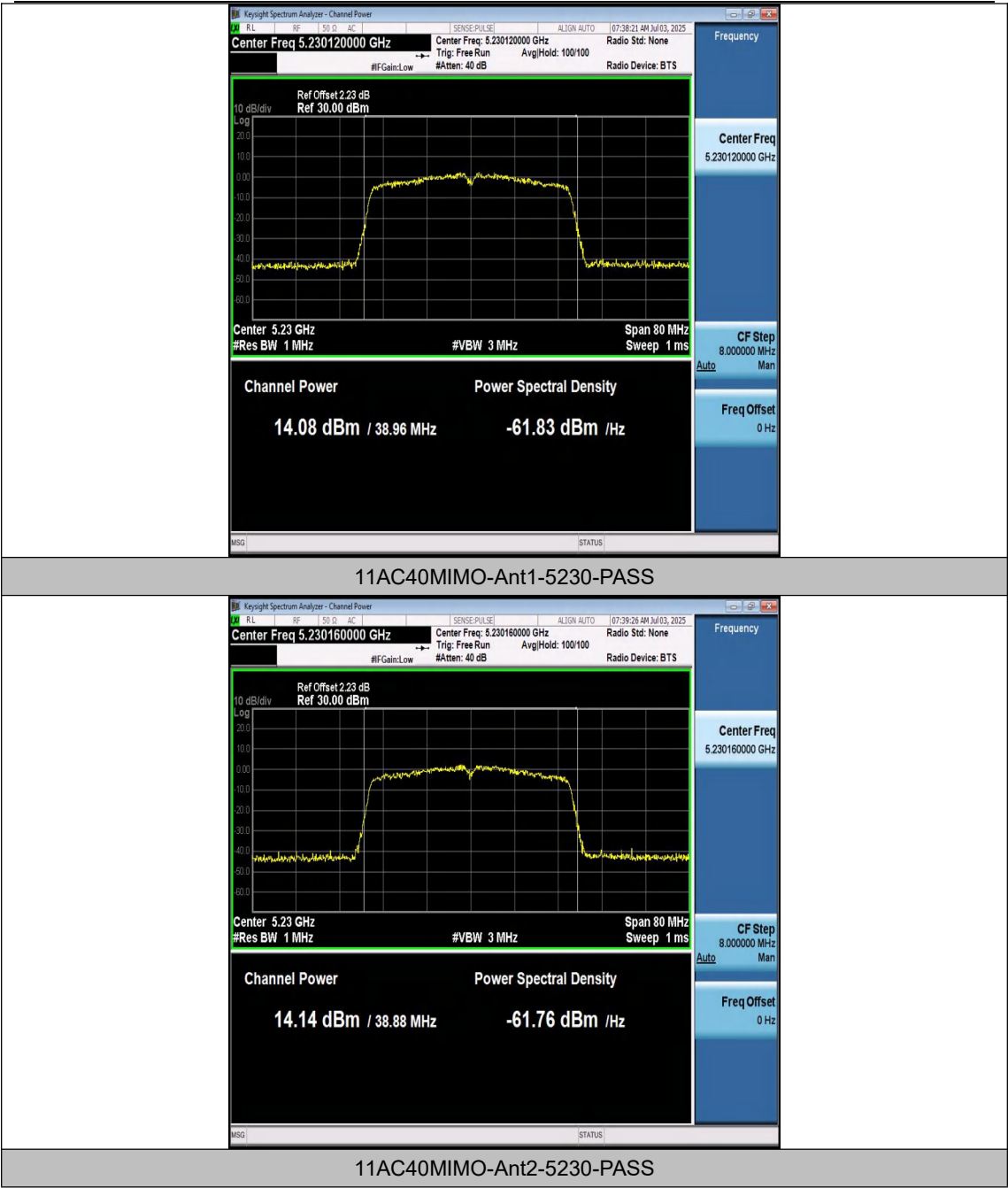
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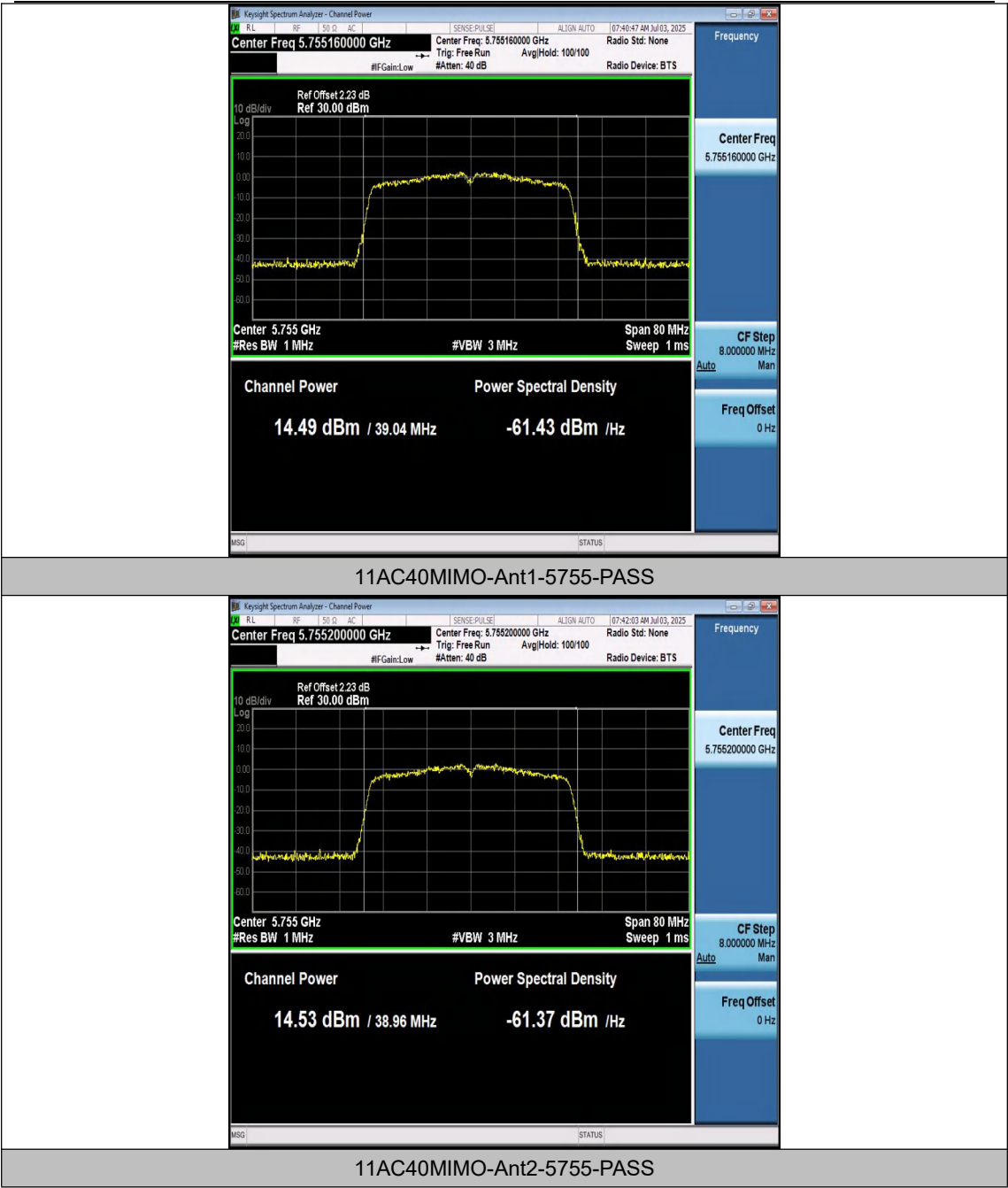
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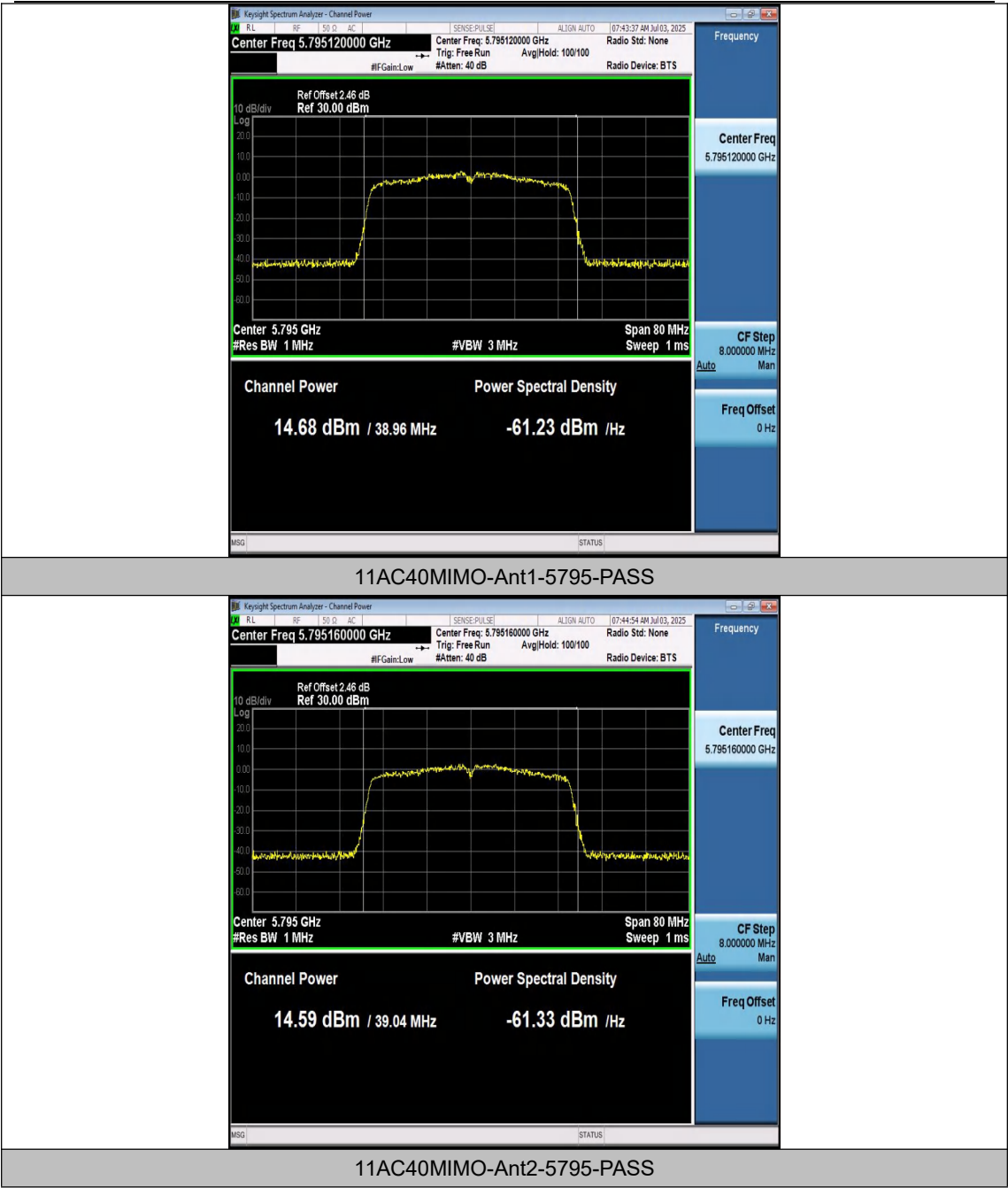
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