

Appendix Test Data

Report No.:	1812C50102512502	Test Sample No.:	1-2-2
Start Test Date:	2025-04-07	Finish Test Date:	2025-06-24
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.4°C	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.240	2407.920	2416.160	0.5	PASS
11B	Ant1	2437	8.240	2432.920	2441.160	0.5	PASS
11B	Ant1	2462	8.200	2457.960	2466.160	0.5	PASS
11G	Ant1	2412	16.040	2404.080	2420.120	0.5	PASS
11G	Ant1	2437	15.920	2429.040	2444.960	0.5	PASS
11G	Ant1	2462	16.120	2454.080	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.440	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.240	2428.480	2445.720	0.5	PASS
11N20SISO	Ant1	2462	16.880	2453.840	2470.720	0.5	PASS

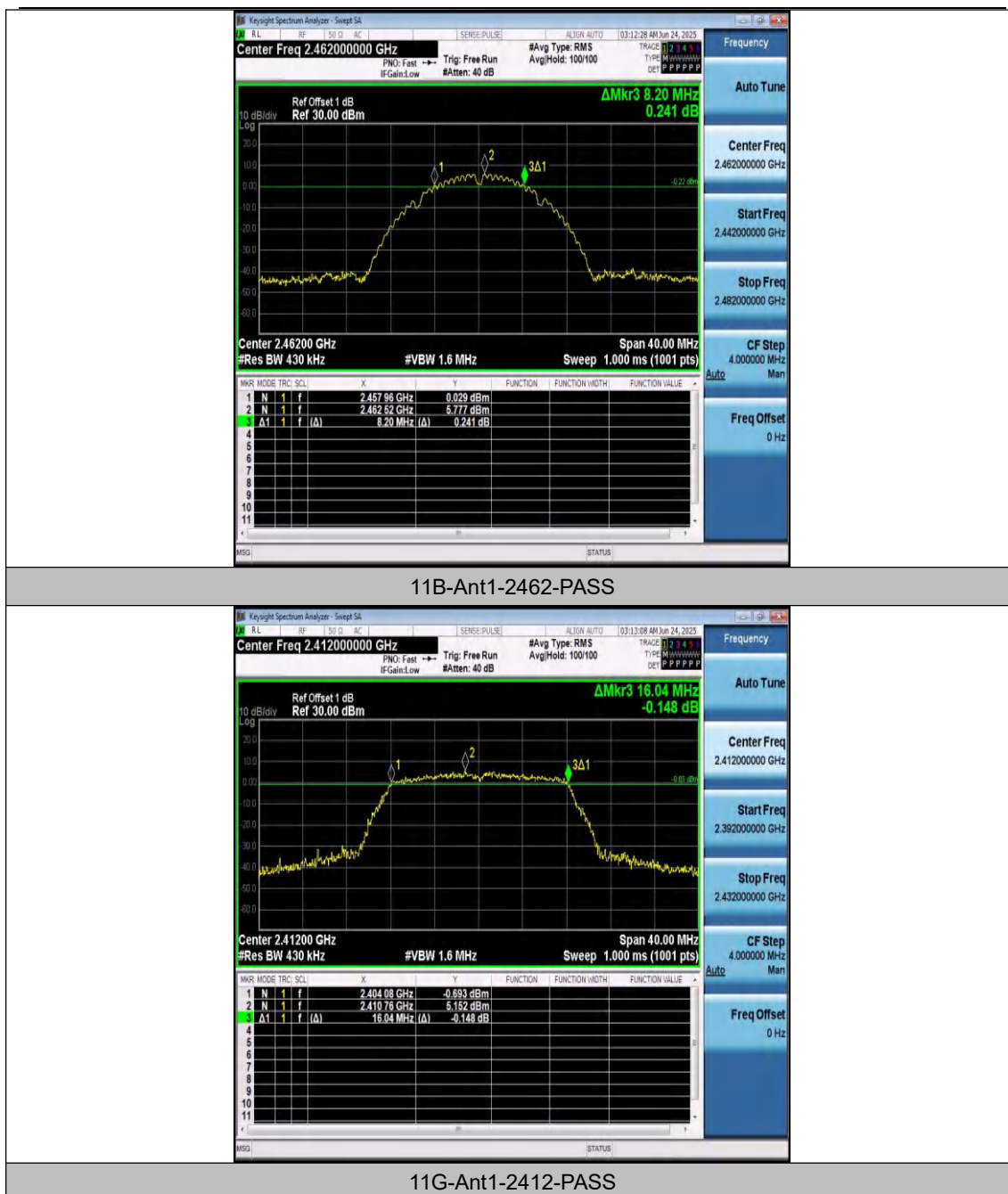
Test Graphs

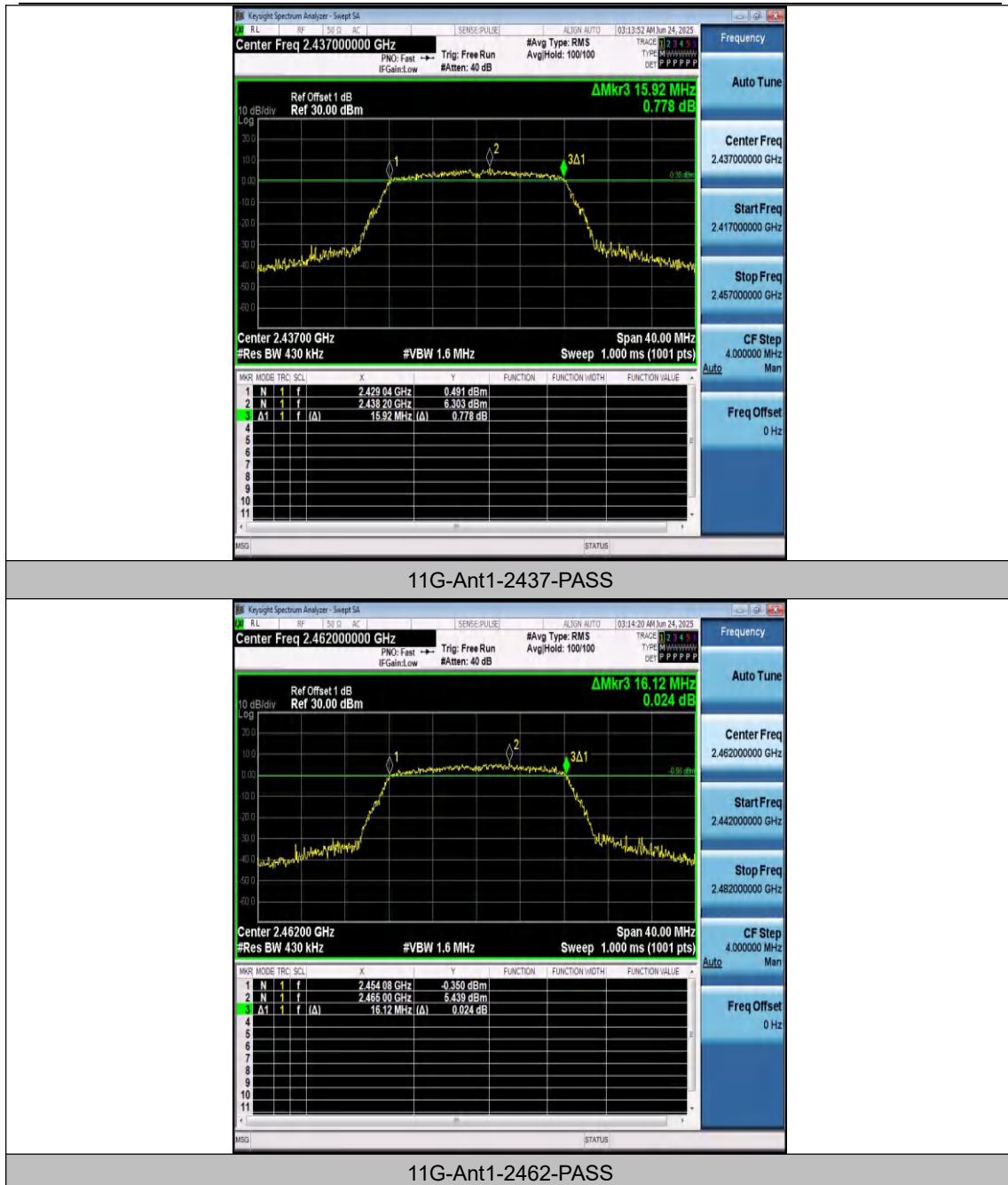


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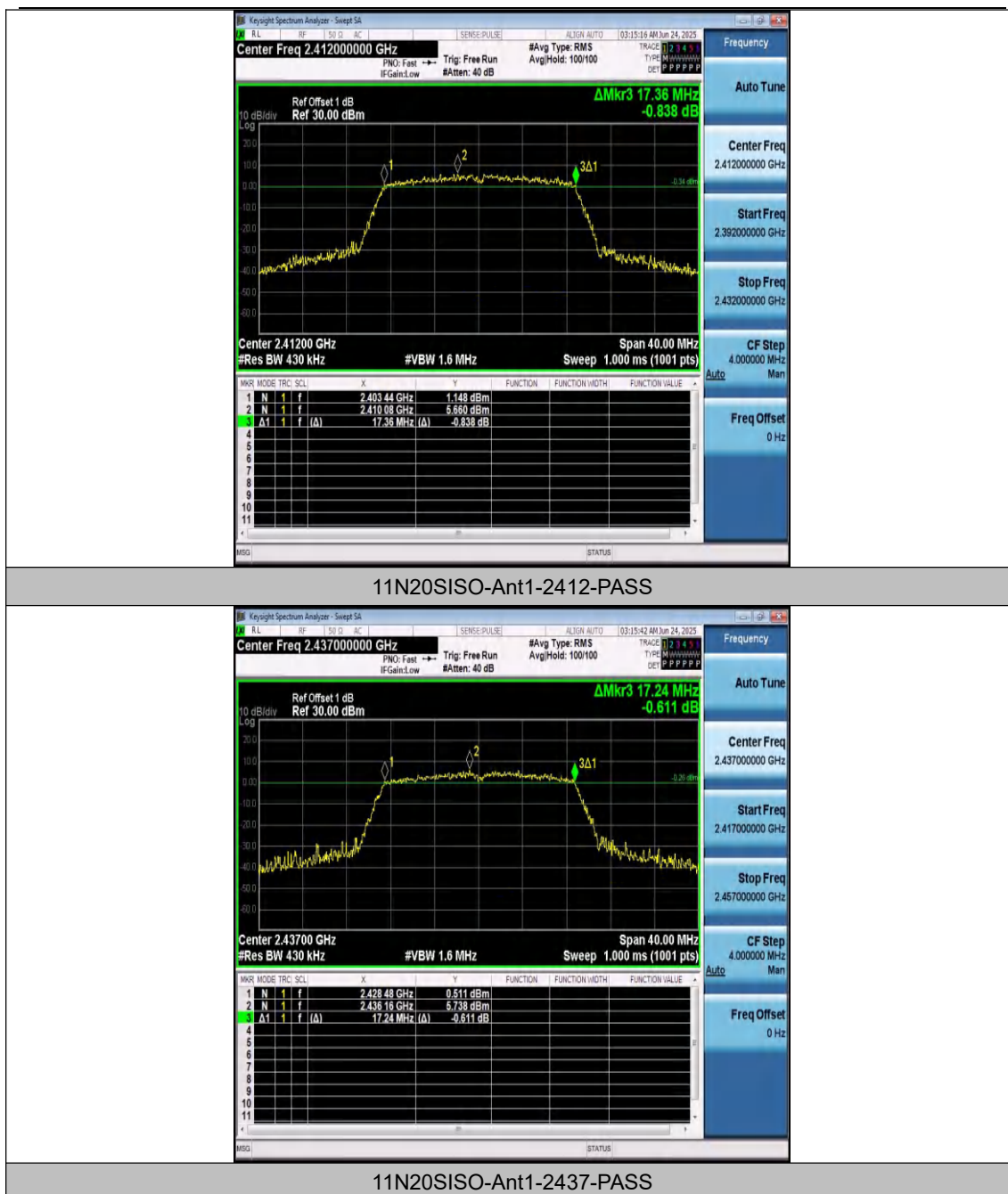


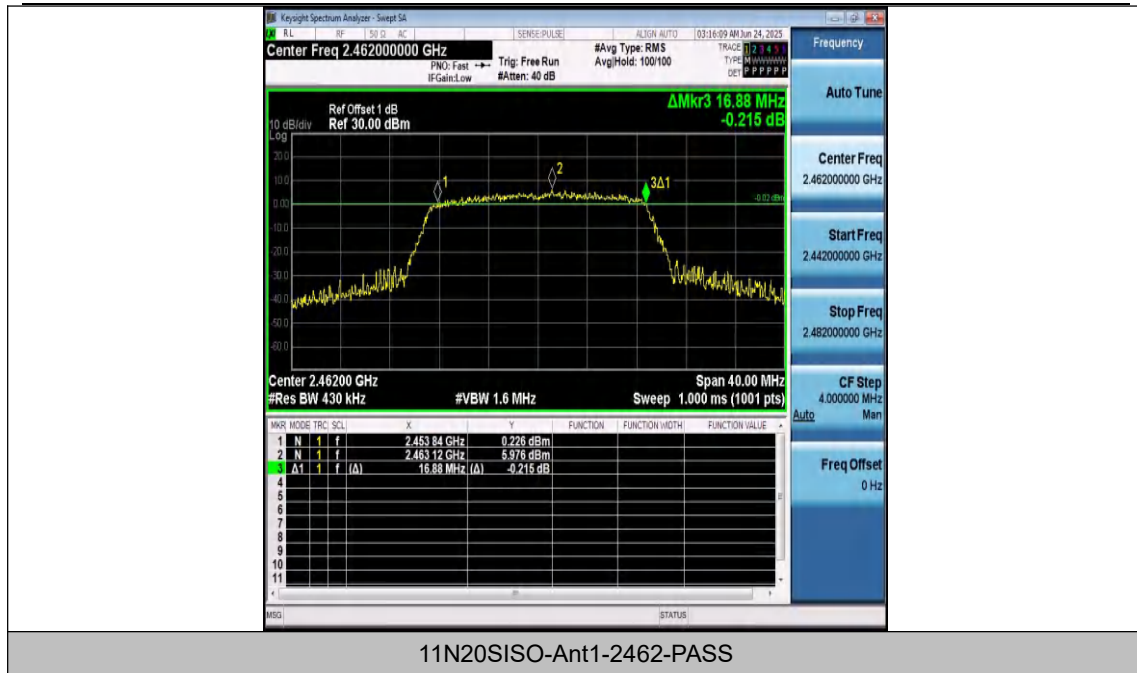


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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.849	2405.6464	2418.4954	---	---
11B	Ant1	2437	12.790	2430.7238	2443.5138	---	---
11B	Ant1	2462	12.714	2455.7897	2468.5037	---	---
11G	Ant1	2412	16.867	2403.5782	2420.4452	---	---
11G	Ant1	2437	16.866	2428.6690	2445.5350	---	---
11G	Ant1	2462	16.809	2453.7318	2470.5408	---	---
11N20SISO	Ant1	2412	17.782	2403.1667	2420.9487	---	---
11N20SISO	Ant1	2437	17.795	2428.1929	2445.9879	---	---
11N20SISO	Ant1	2462	17.760	2453.2450	2471.0050	---	---



Test Graphs



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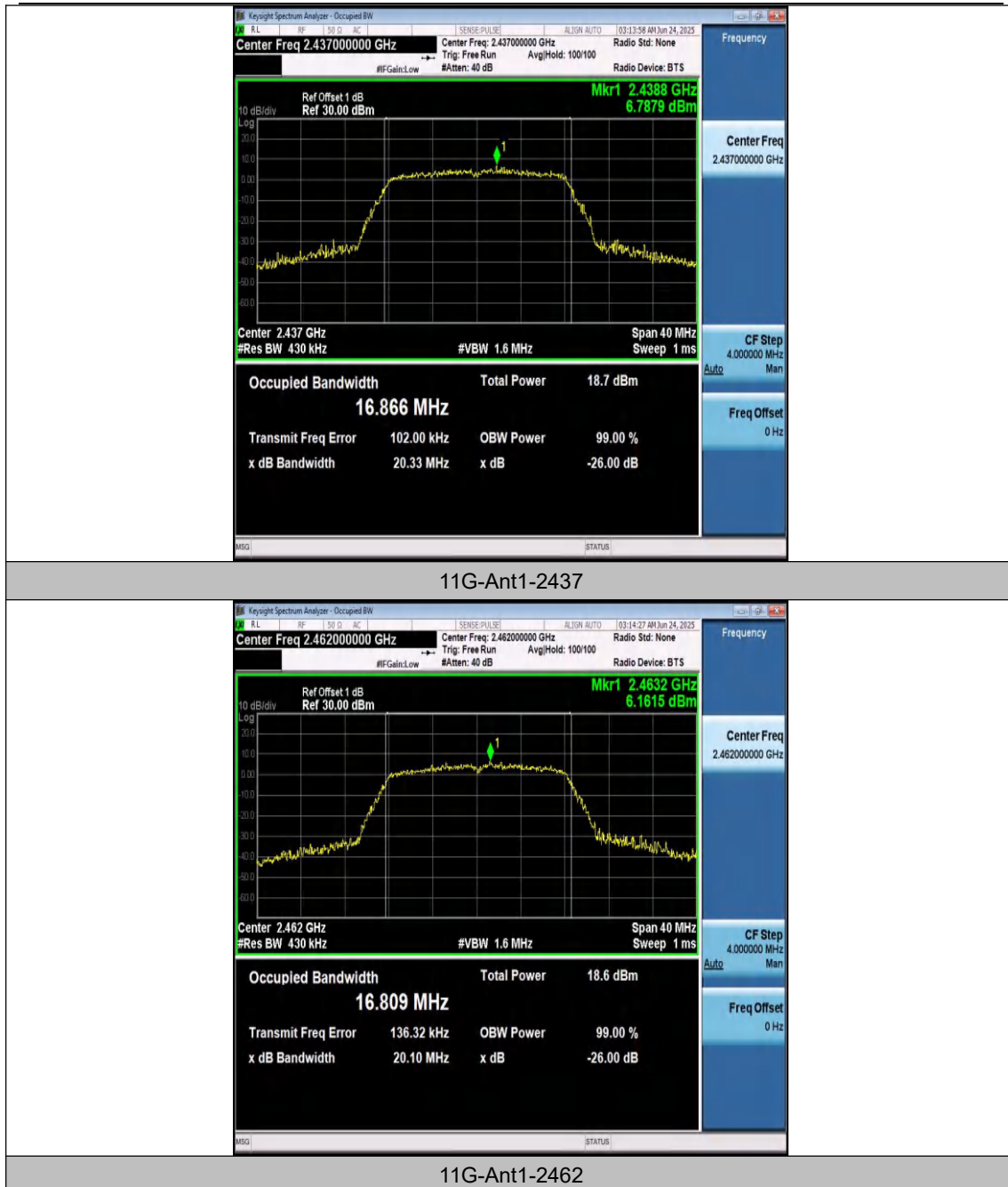
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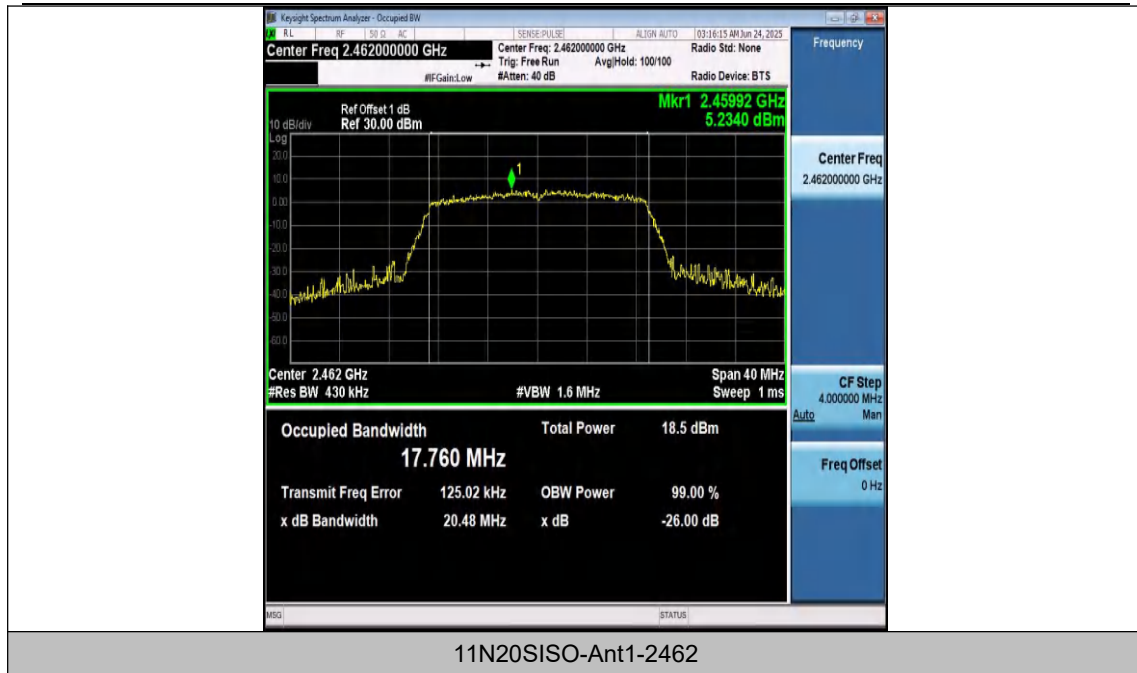


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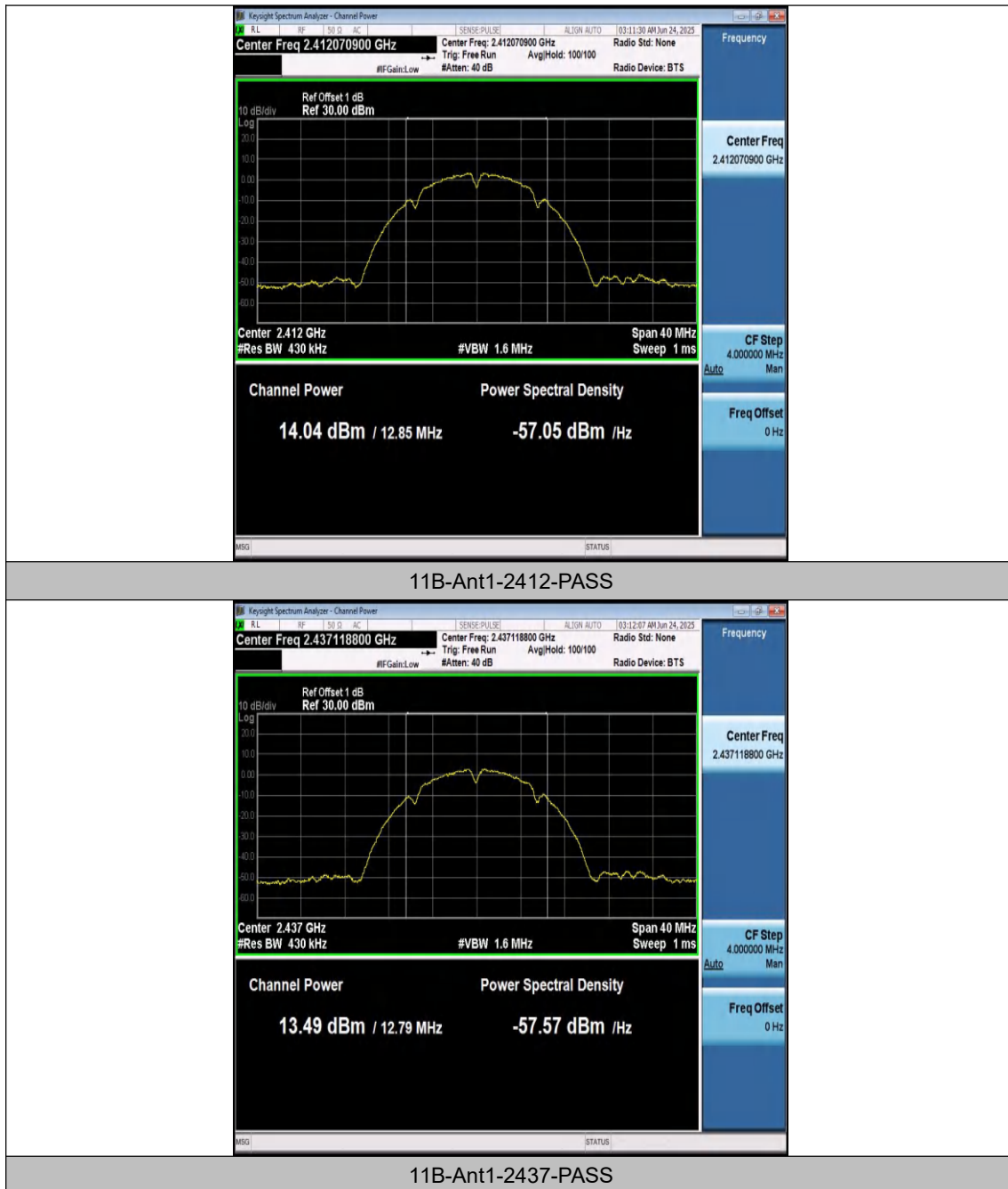
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.04	100.00	0.00	14.04	≤30.0 0	PASS
11B	Ant1	2437	13.49	100.00	0.00	13.49	≤30.0 0	PASS
11B	Ant1	2462	13.42	100.00	0.00	13.42	≤30.0 0	PASS
11G	Ant1	2412	12.77	100.00	0.00	12.77	≤30.0 0	PASS
11G	Ant1	2437	12.43	100.00	0.00	12.43	≤30.0 0	PASS
11G	Ant1	2462	12.35	100.00	0.00	12.35	≤30.0 0	PASS
11N20SI SO	Ant1	2412	12.67	100.00	0.00	12.67	≤30.0 0	PASS
11N20SI SO	Ant1	2437	12.29	100.00	0.00	12.29	≤30.0 0	PASS
11N20SI SO	Ant1	2462	12.12	100.00	0.00	12.12	≤30.0 0	PASS

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.

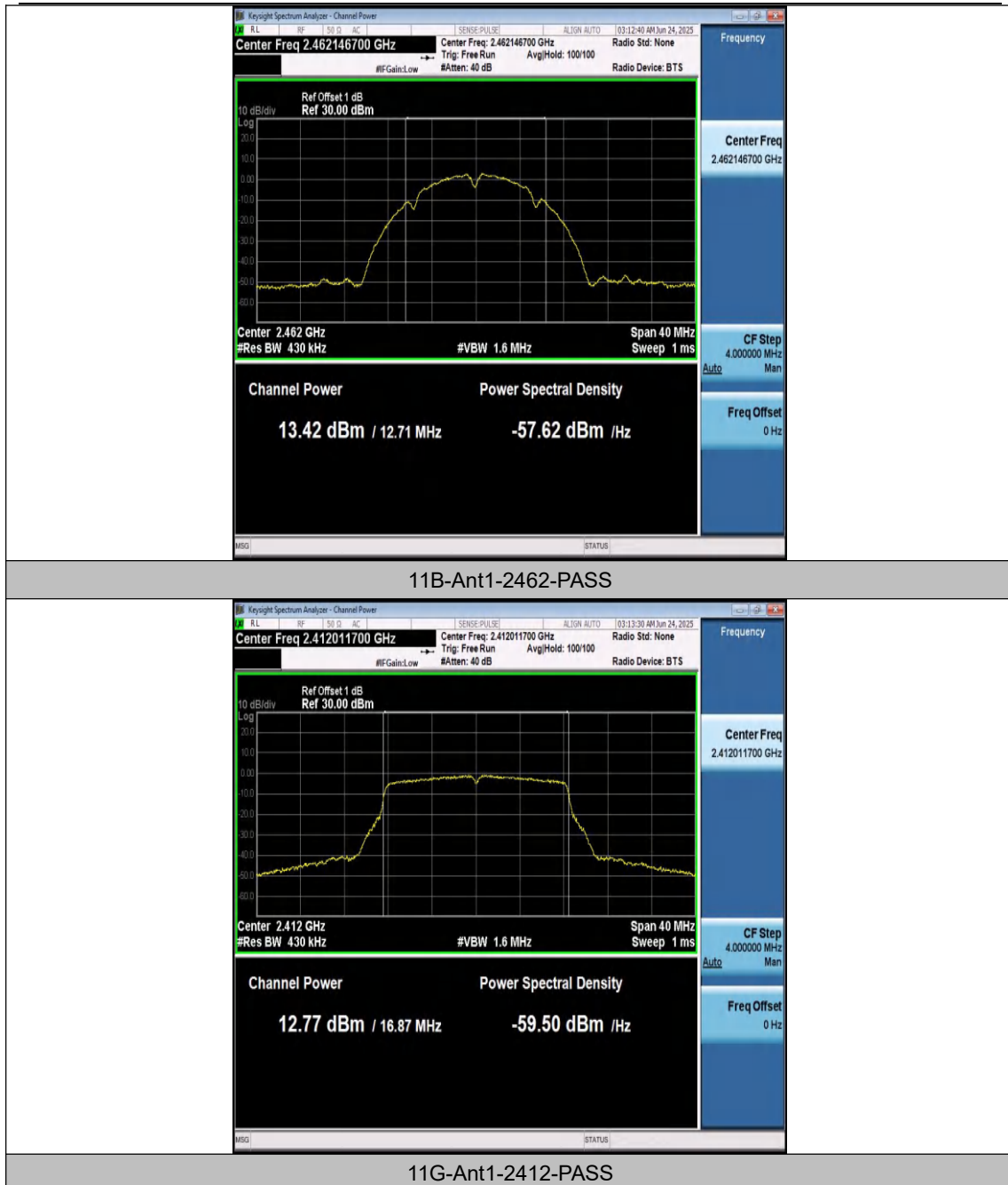
Test Graphs Average

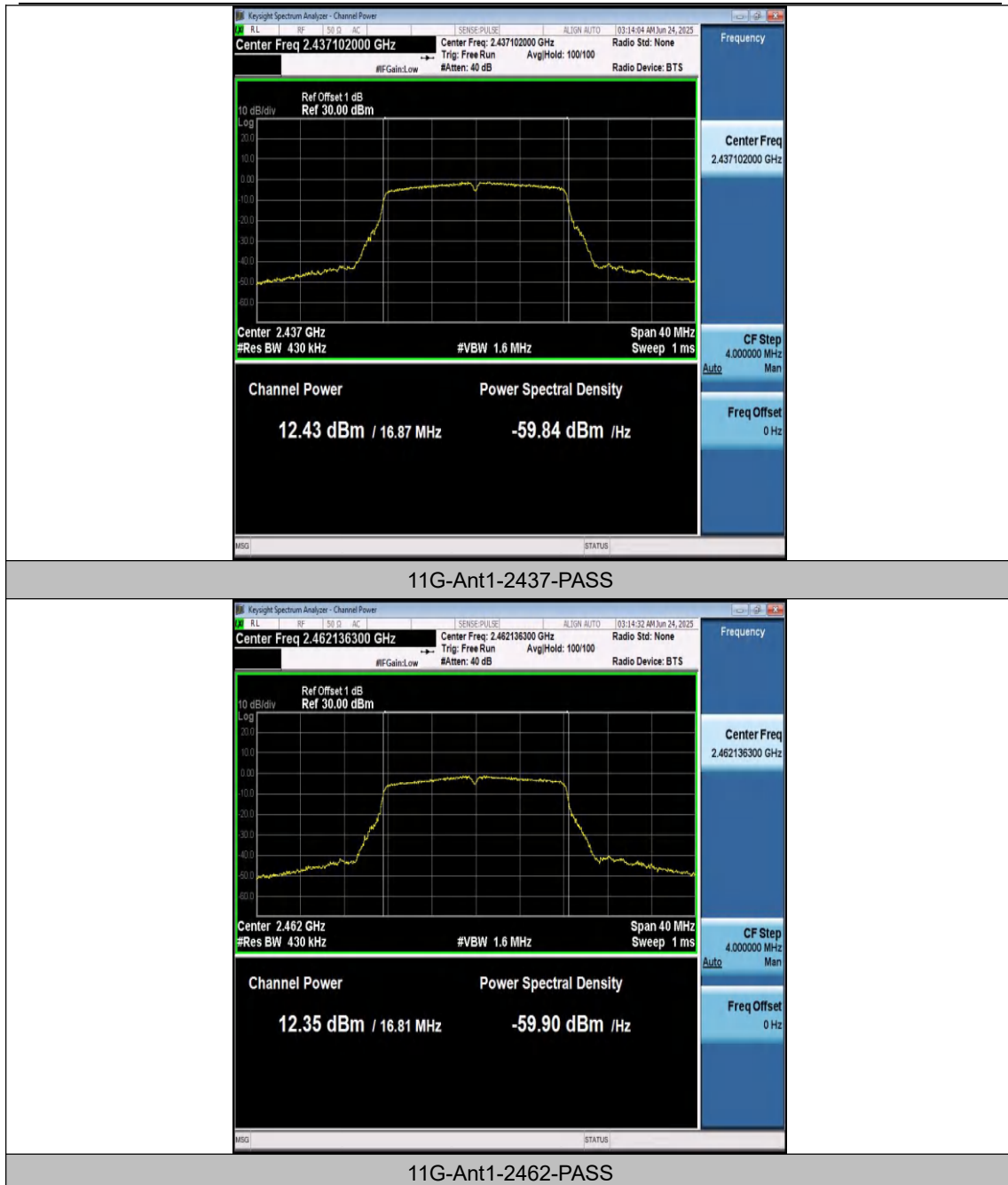


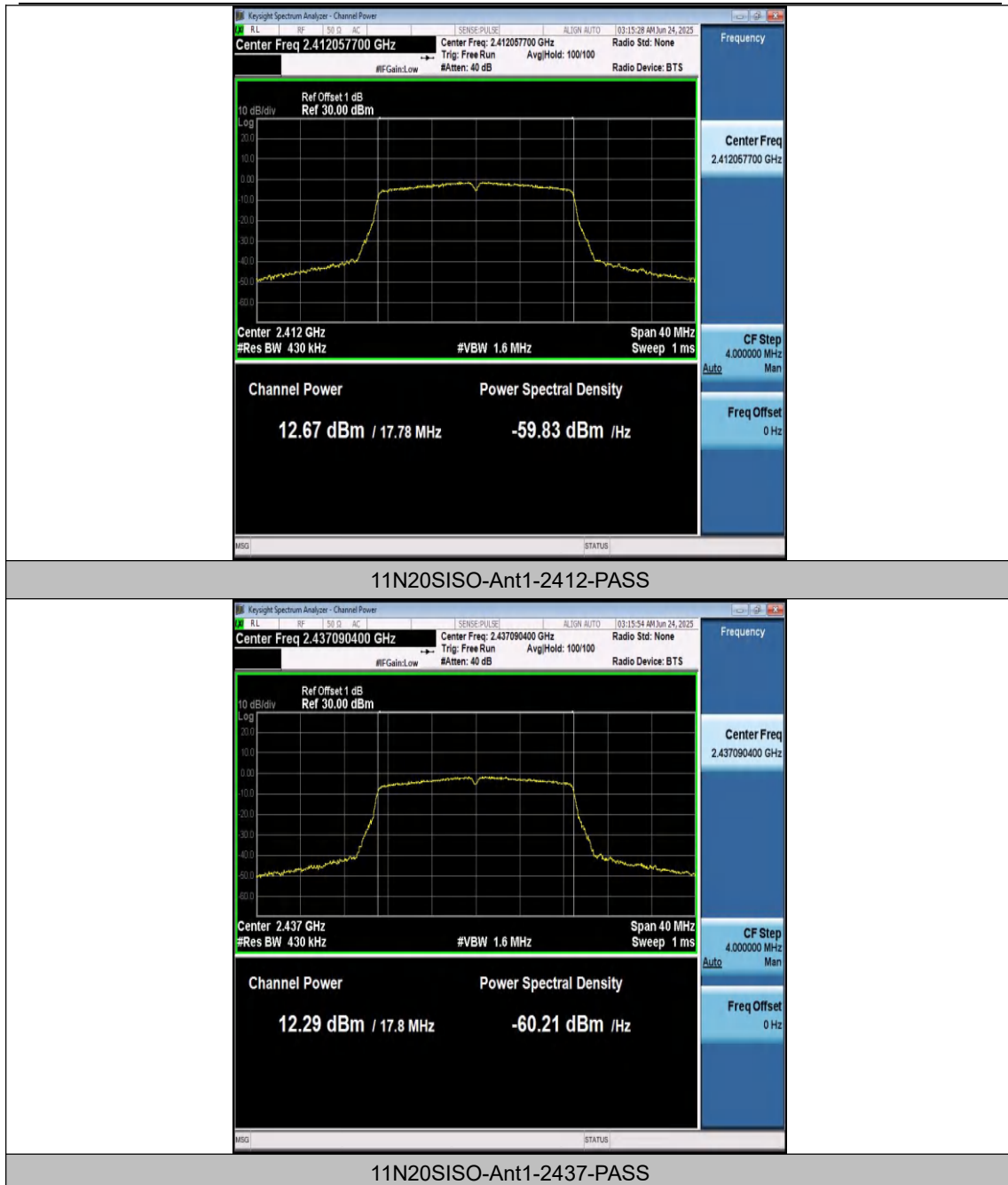
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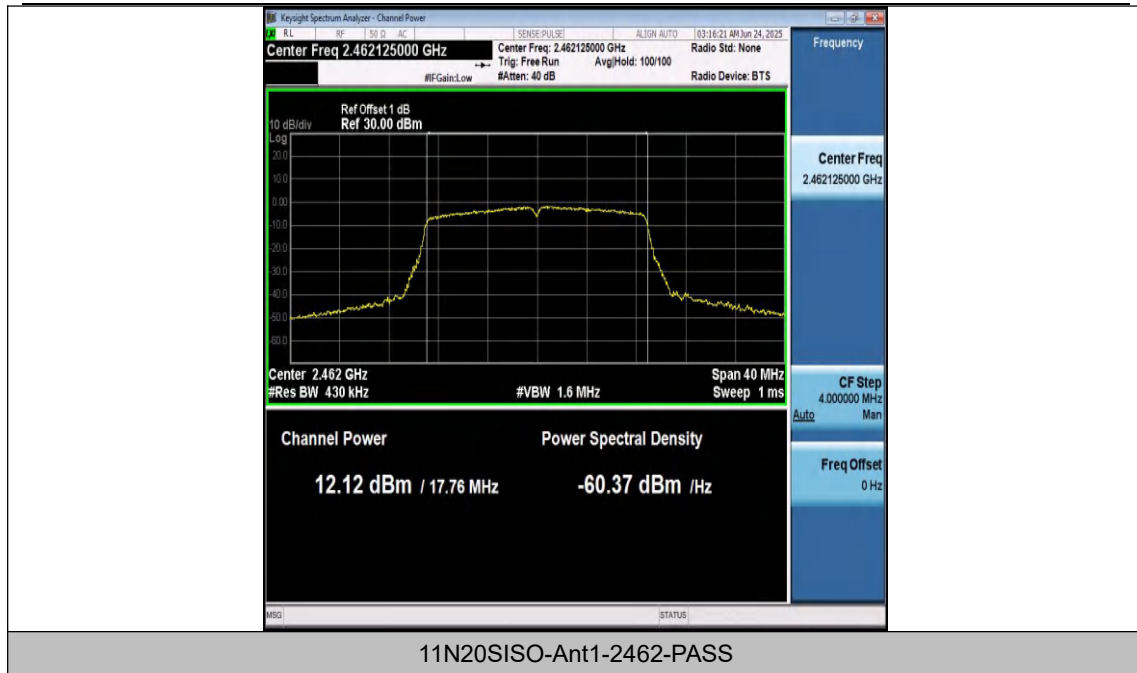
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Appendix D: Maximum power spectral density

Test Result

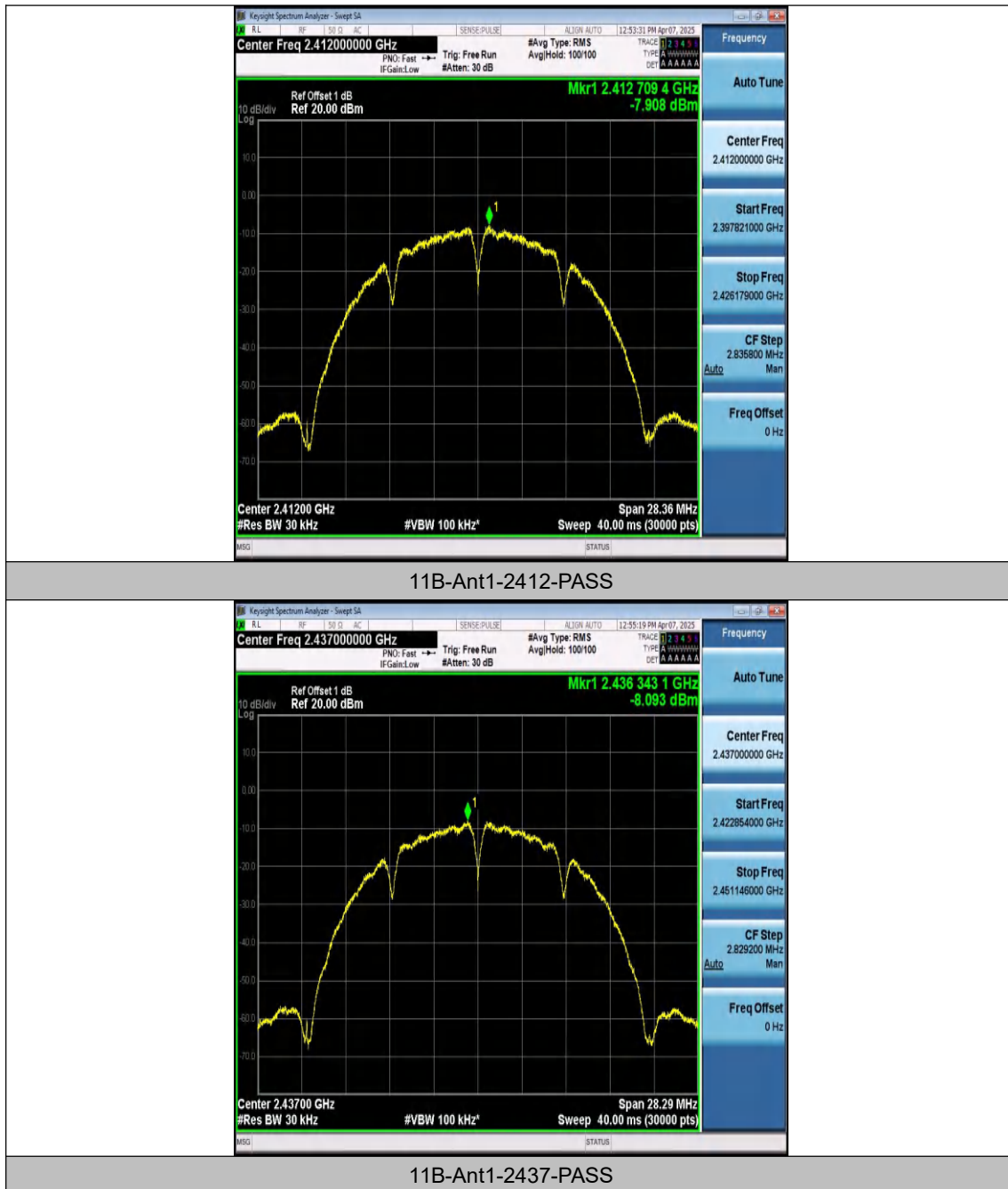
Test Mode	Antenna	Frequency[MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.91	-17.91	≤8.00	PASS
11B	Ant1	2437	-8.09	-18.09	≤8.00	PASS
11B	Ant1	2462	-7.65	-17.65	≤8.00	PASS
11G	Ant1	2412	-11.75	-21.75	≤8.00	PASS
11G	Ant1	2437	-11.79	-21.79	≤8.00	PASS
11G	Ant1	2462	-11.14	-21.14	≤8.00	PASS
11N20SISO	Ant1	2412	-12.18	-22.18	≤8.00	PASS
11N20SISO	Ant1	2437	-11.76	-21.76	≤8.00	PASS
11N20SISO	Ant1	2462	-11.63	-21.63	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



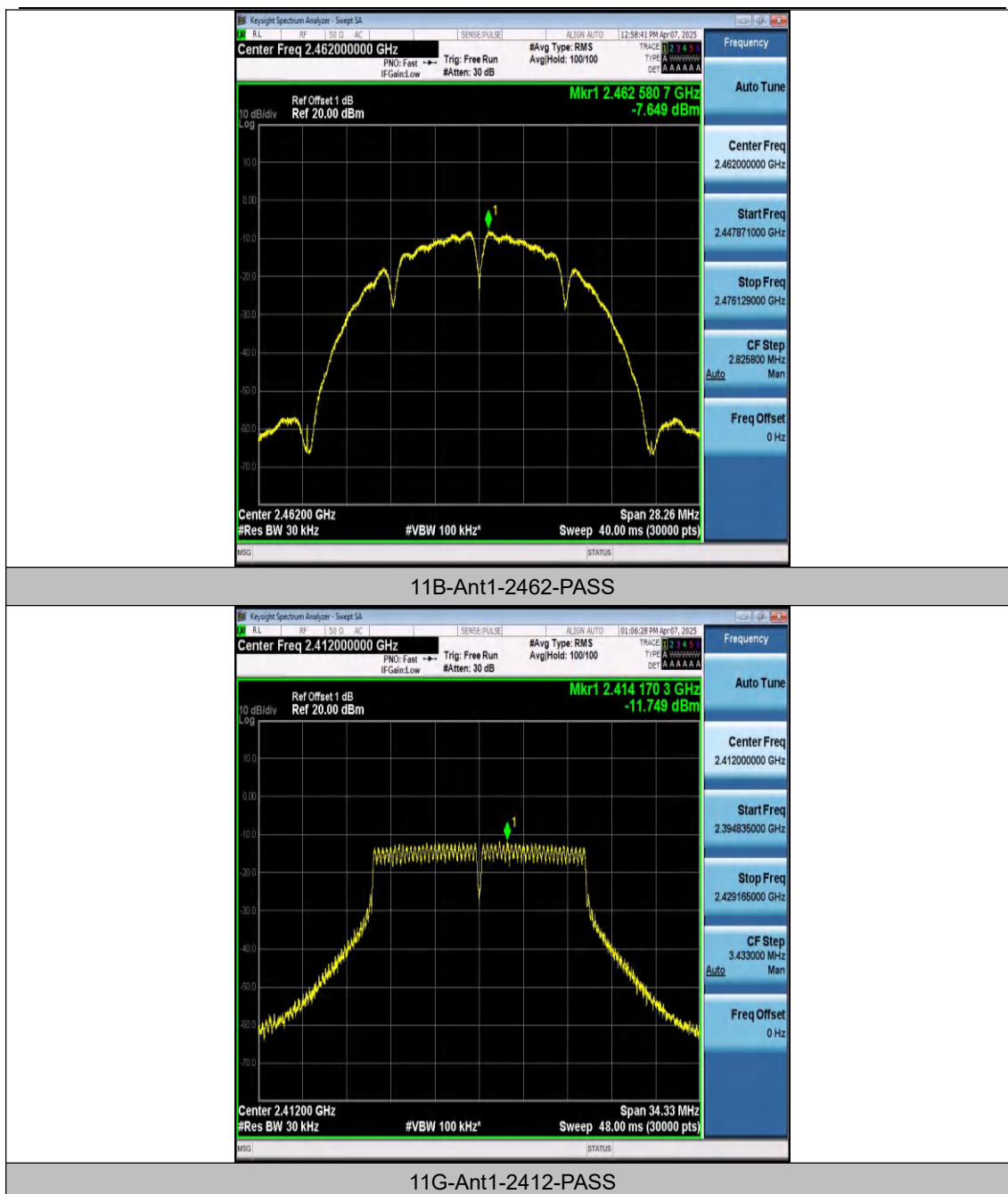
Test Graphs

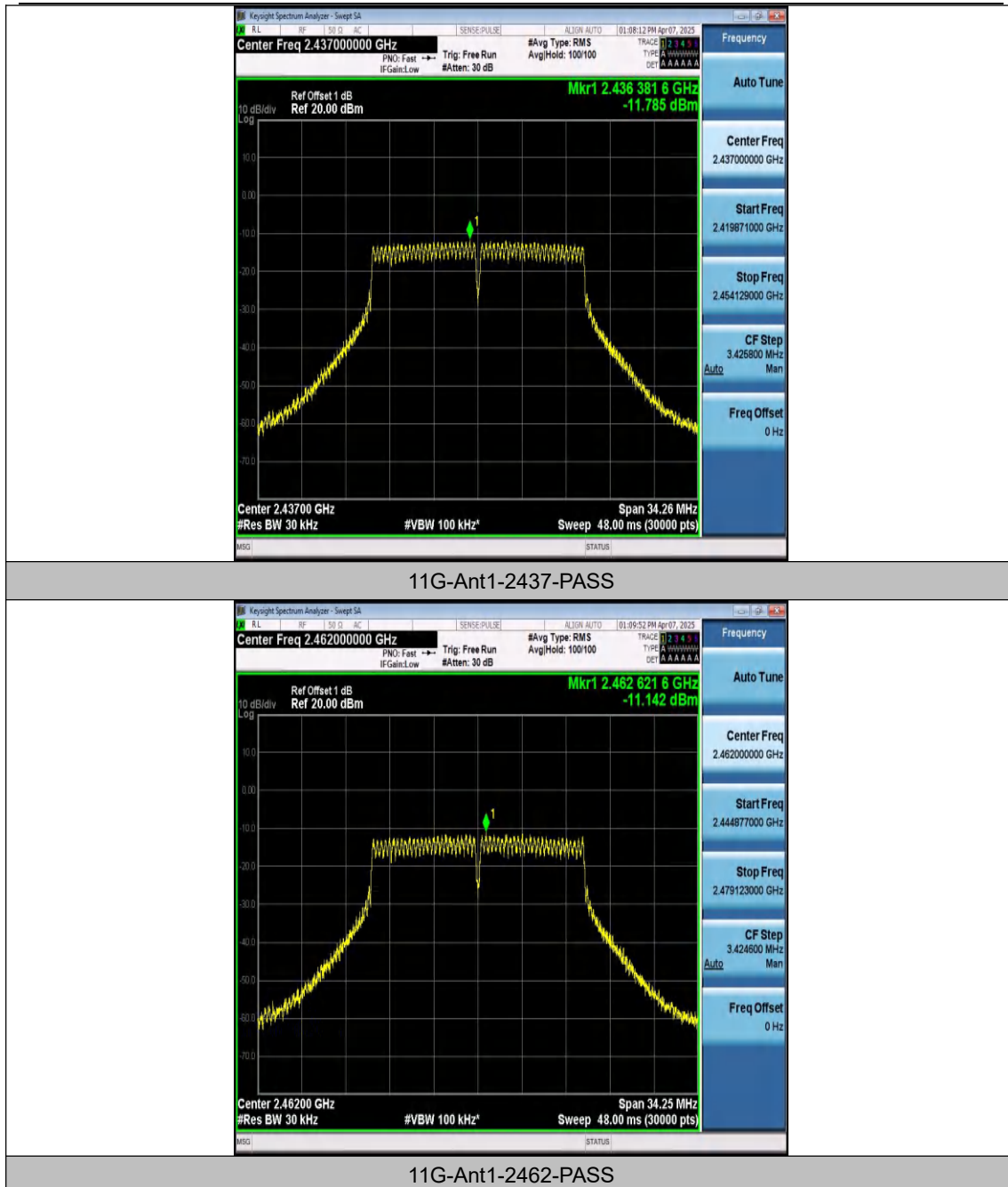


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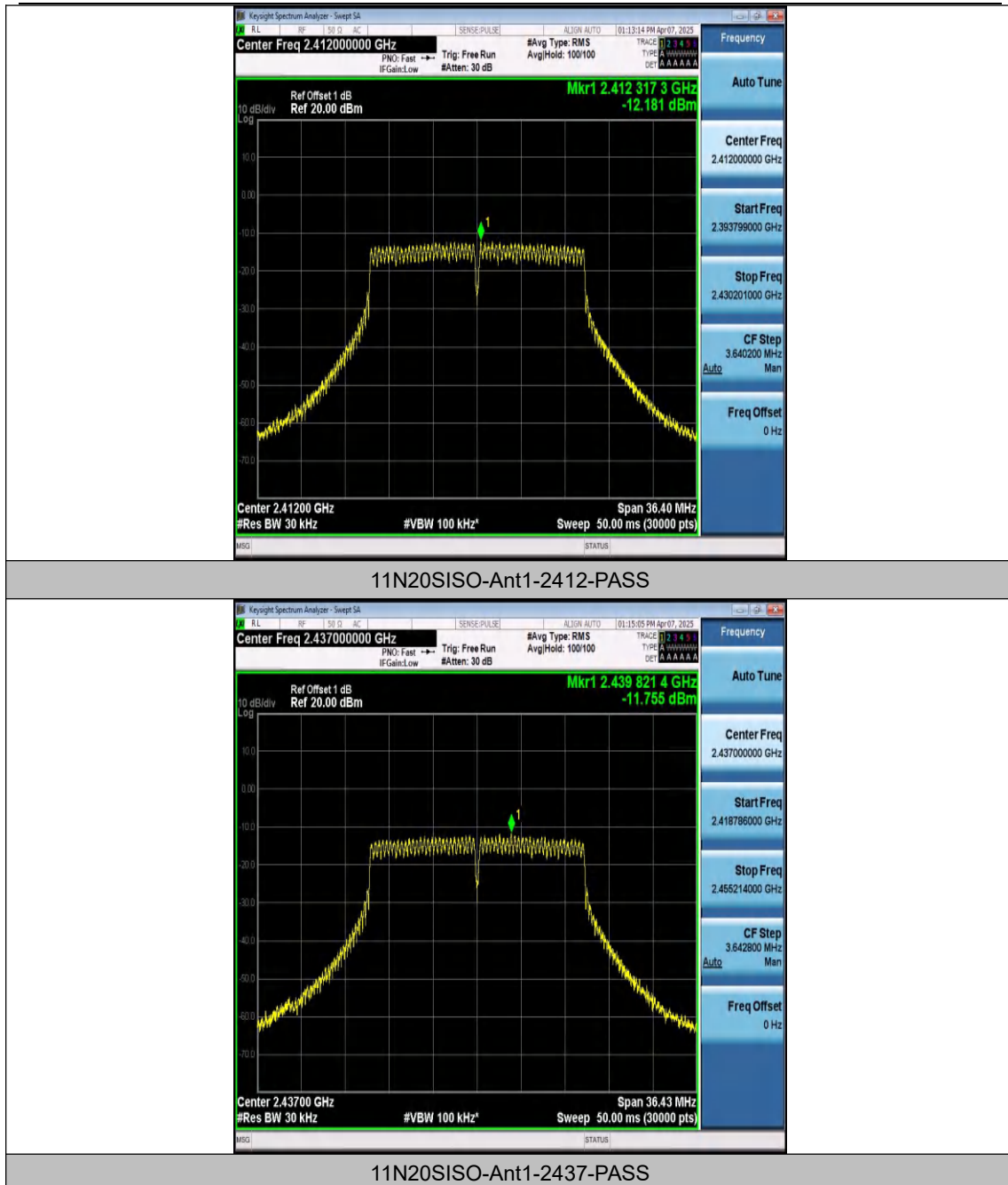




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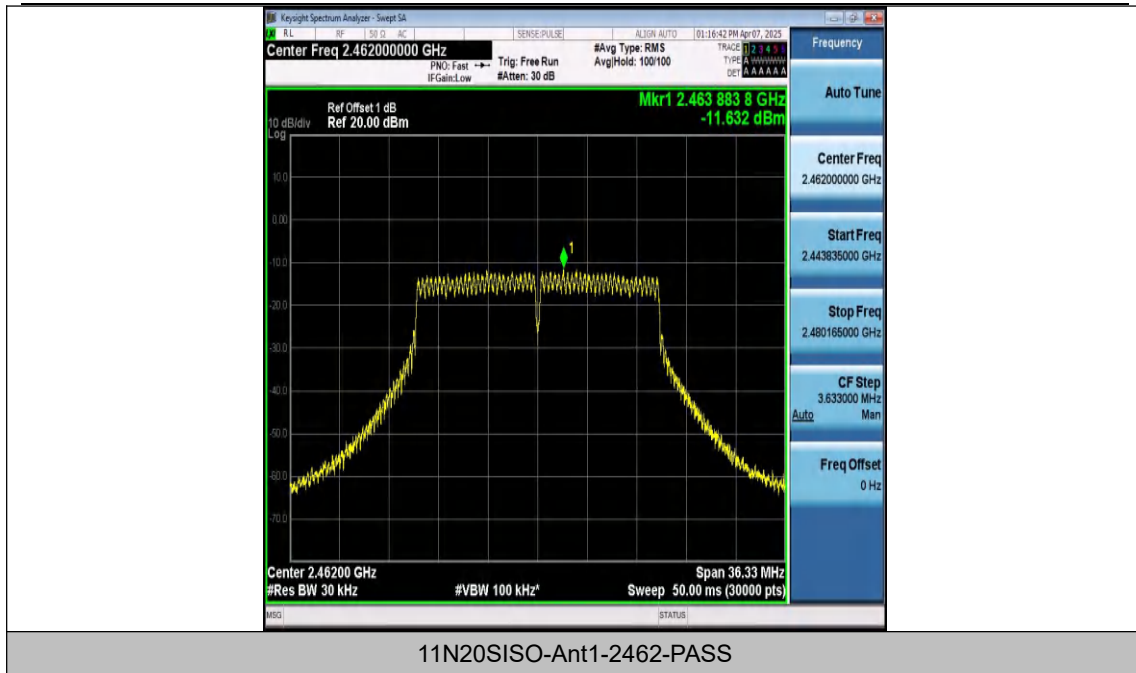
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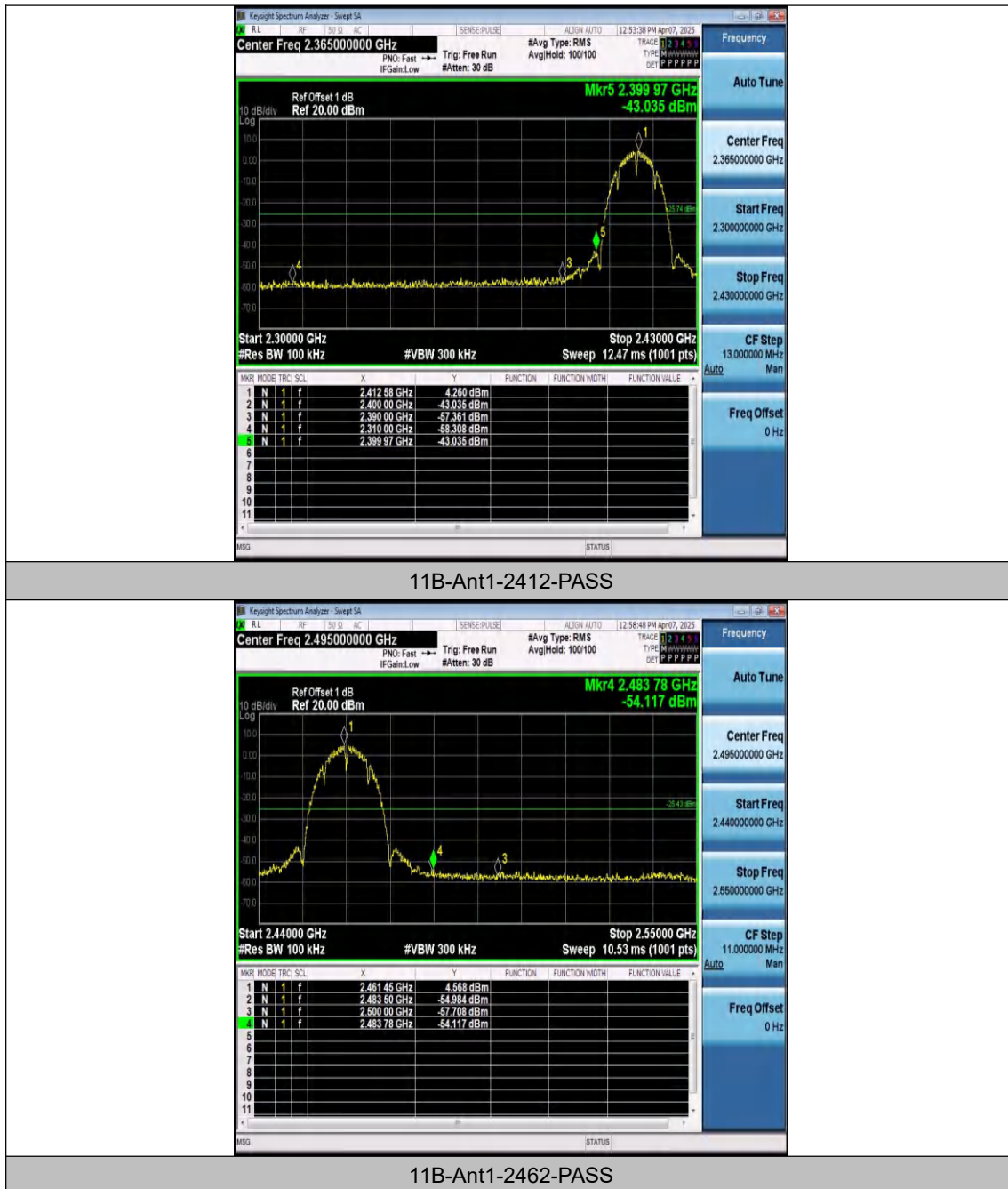
Appendix E: Conducted Band edge

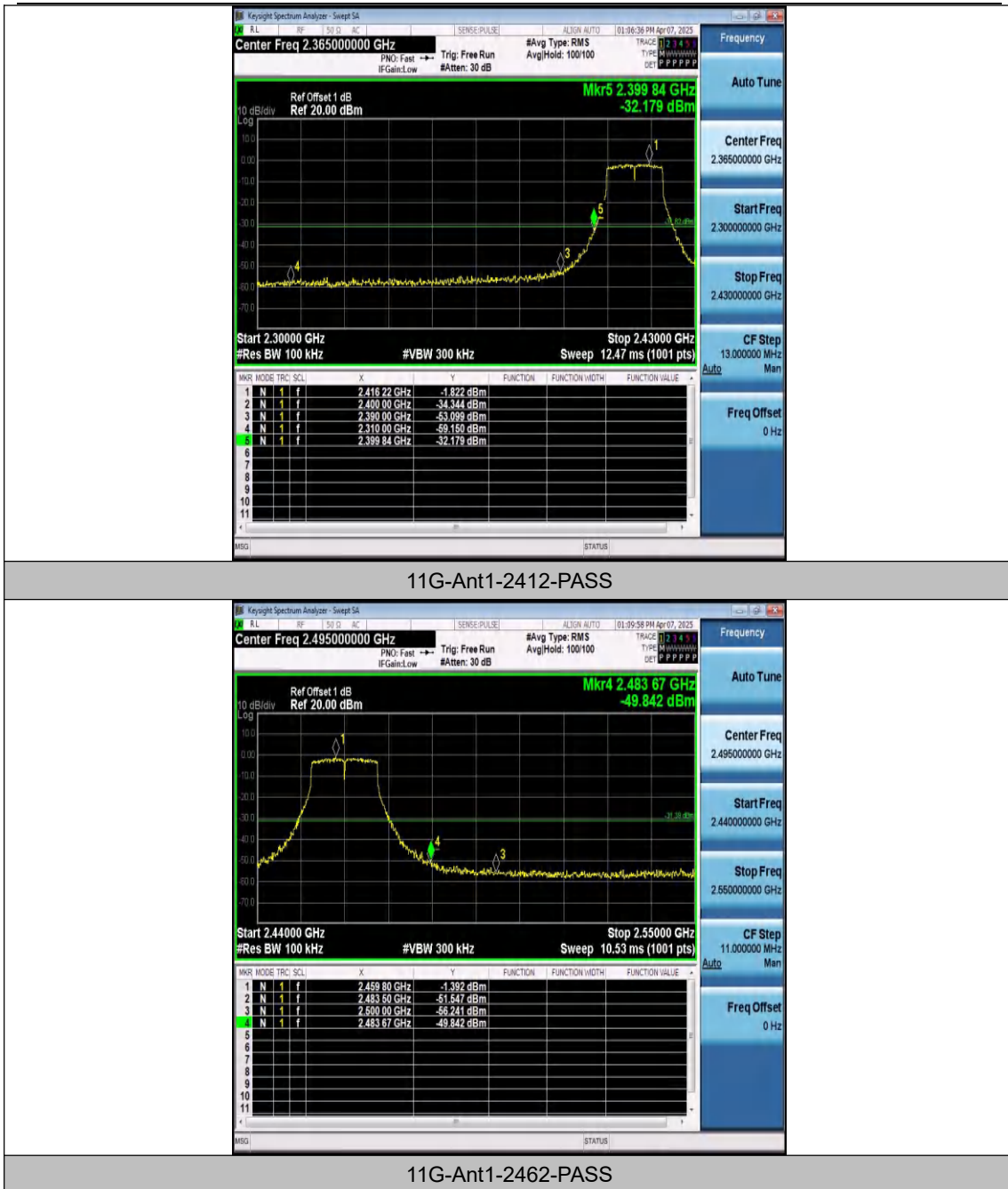
Test Result

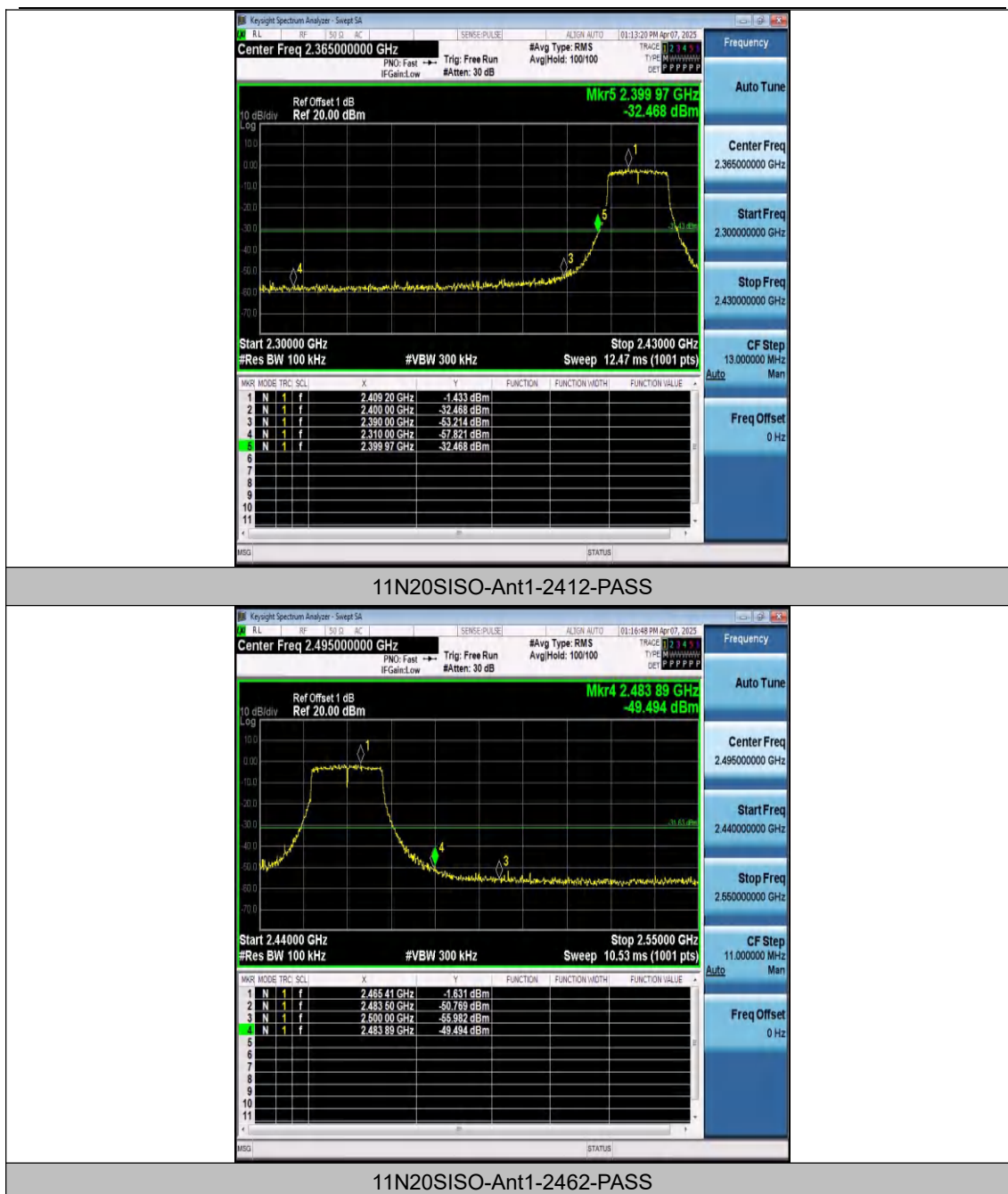
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.26	-43.04	≤-25.74	PASS
11B	Ant1	High	2462	4.57	-54.12	≤-25.43	PASS
11G	Ant1	Low	2412	-1.82	-32.18	≤-31.82	PASS
11G	Ant1	High	2462	-1.39	-49.84	≤-31.39	PASS
11N20SISO	Ant1	Low	2412	-1.43	-32.47	≤-31.43	PASS
11N20SISO	Ant1	High	2462	-1.63	-49.49	≤-31.63	PASS



Test Graphs







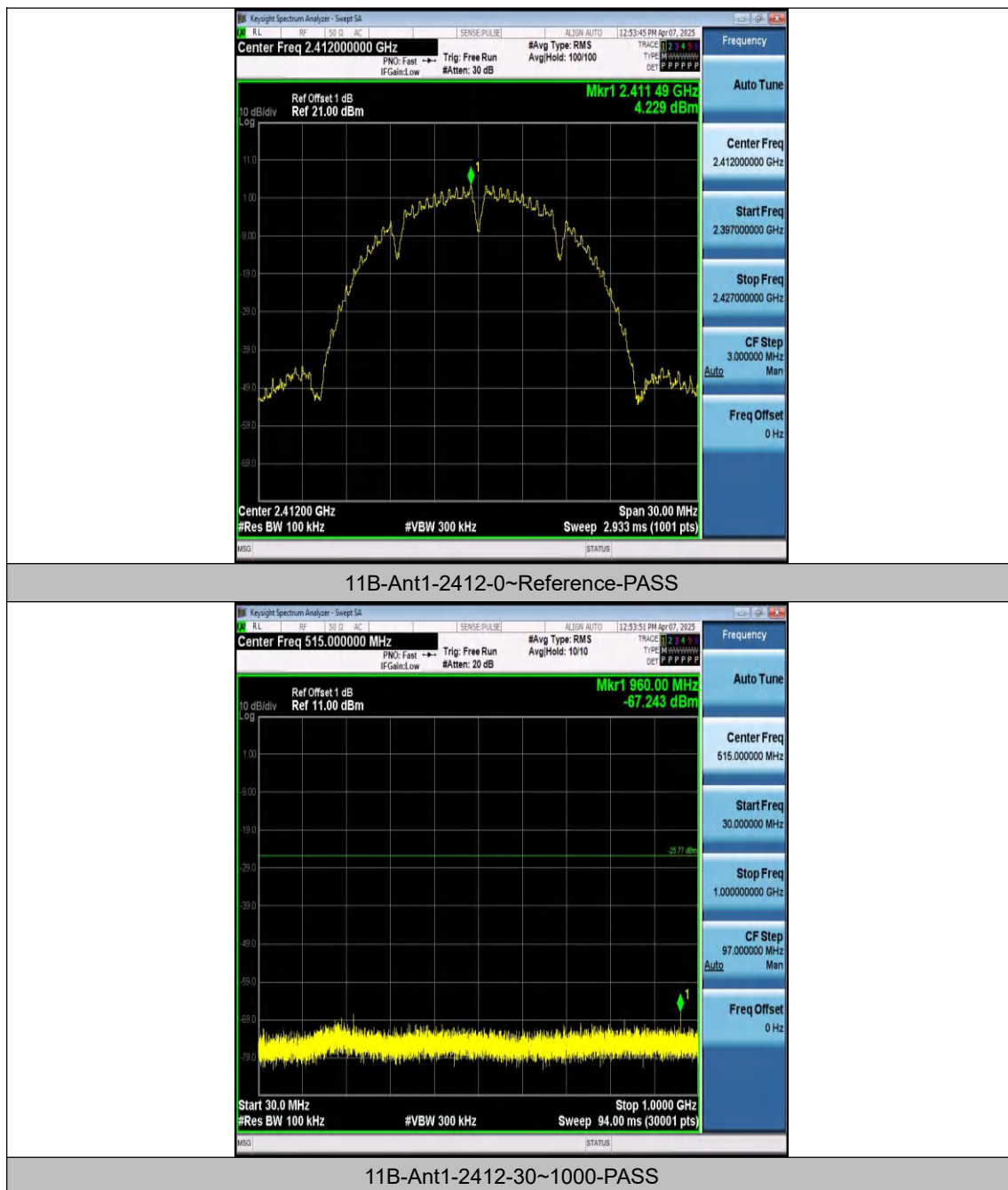
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.23	4.23	---	PASS
11B	Ant1	2412	30~1000	4.23	-67.24	≤-25.77	PASS
11B	Ant1	2412	1000~26500	4.23	-51.34	≤-25.77	PASS
11B	Ant1	2437	0~Reference	4.34	4.34	---	PASS
11B	Ant1	2437	30~1000	4.34	-68.45	≤-25.66	PASS
11B	Ant1	2437	1000~26500	4.34	-53.32	≤-25.66	PASS
11B	Ant1	2462	0~Reference	4.55	4.55	---	PASS
11B	Ant1	2462	30~1000	4.55	-68.05	≤-25.45	PASS
11B	Ant1	2462	1000~26500	4.55	-52.72	≤-25.45	PASS
11G	Ant1	2412	0~Reference	-1.83	-1.83	---	PASS
11G	Ant1	2412	30~1000	-1.83	-68.89	≤-31.83	PASS
11G	Ant1	2412	1000~26500	-1.83	-53.89	≤-31.83	PASS
11G	Ant1	2437	0~Reference	-1.66	-1.66	---	PASS
11G	Ant1	2437	30~1000	-1.66	-68.68	≤-31.66	PASS
11G	Ant1	2437	1000~26500	-1.66	-52.7	≤-31.66	PASS
11G	Ant1	2462	0~Reference	-1.33	-1.33	---	PASS
11G	Ant1	2462	30~1000	-1.33	-68.61	≤-31.33	PASS
11G	Ant1	2462	1000~26500	-1.33	-53.66	≤-31.33	PASS
11N20SISO	Ant1	2412	0~Reference	-1.93	-1.93	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.93	-68.4	≤-31.93	PASS
11N20SISO	Ant1	2412	1000~26500	-1.93	-52.52	≤-31.93	PASS
11N20SISO	Ant1	2437	0~Reference	-1.91	-1.91	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.91	-68.65	≤-31.91	PASS
11N20SISO	Ant1	2437	1000~26500	-1.91	-53.52	≤-31.91	PASS
11N20SISO	Ant1	2462	0~Reference	-1.00	-1.00	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.00	-68.43	≤-31	PASS
11N20SISO	Ant1	2462	1000~26500	-1.00	-53.27	≤-31	PASS



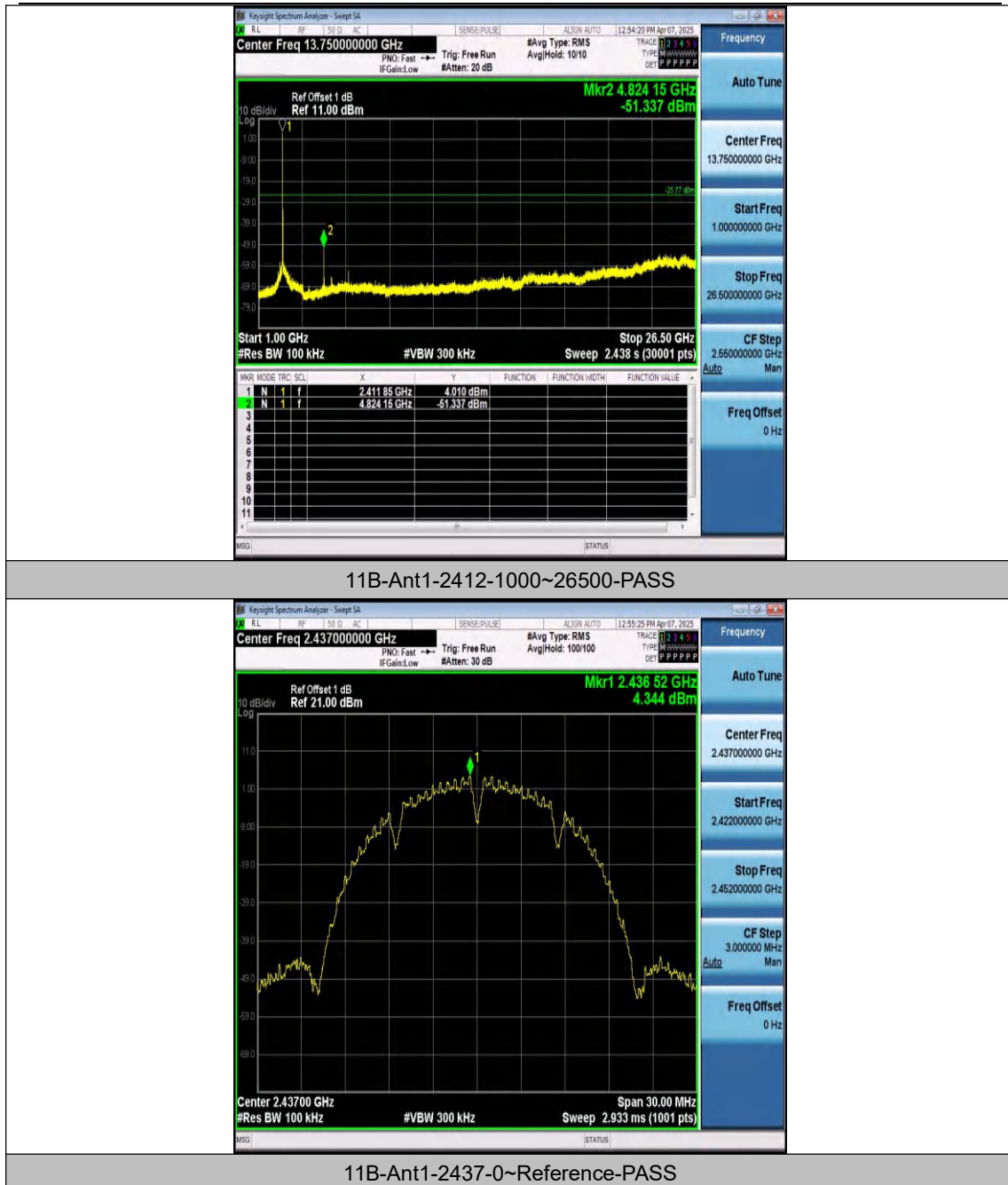
Test Graphs

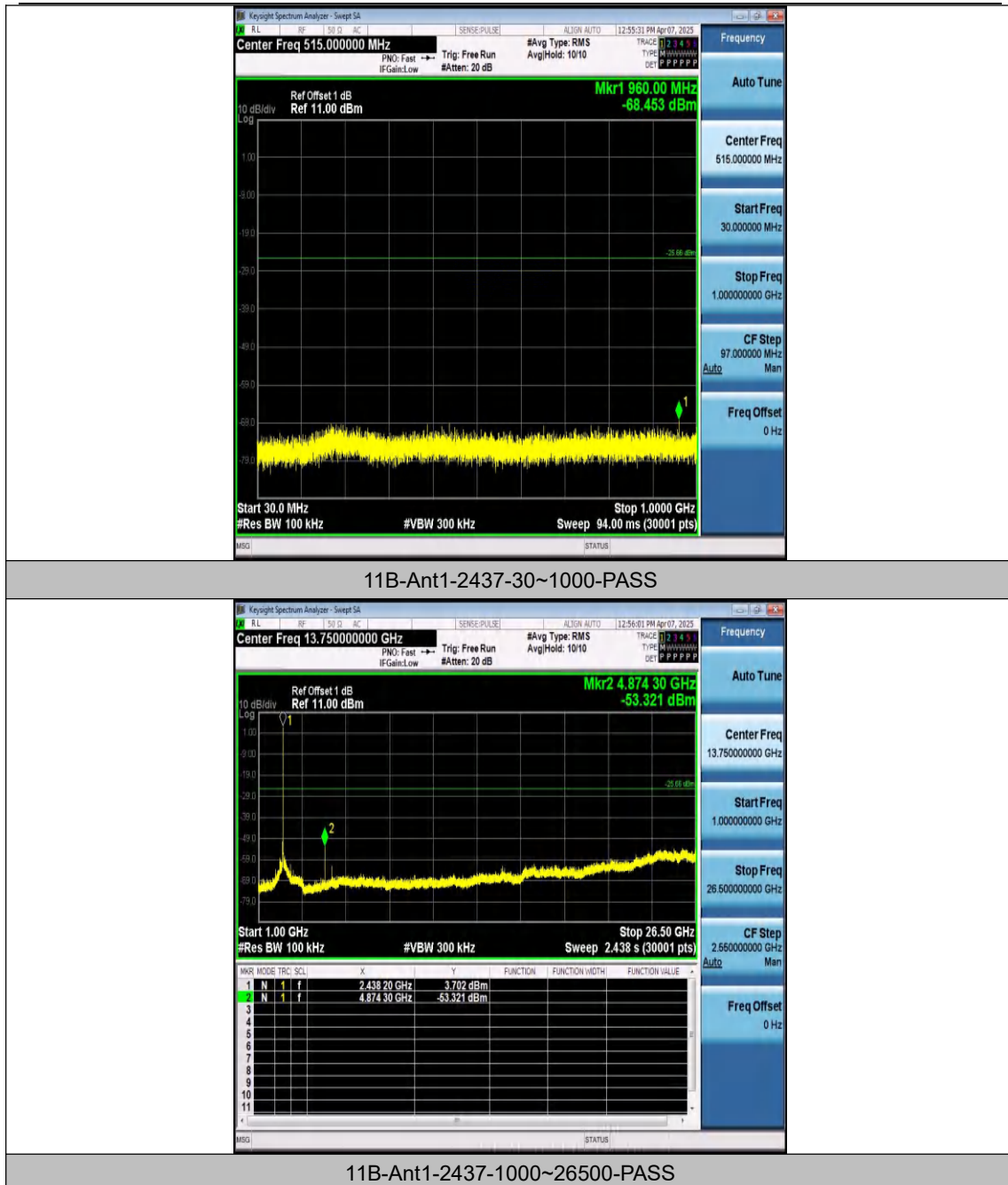


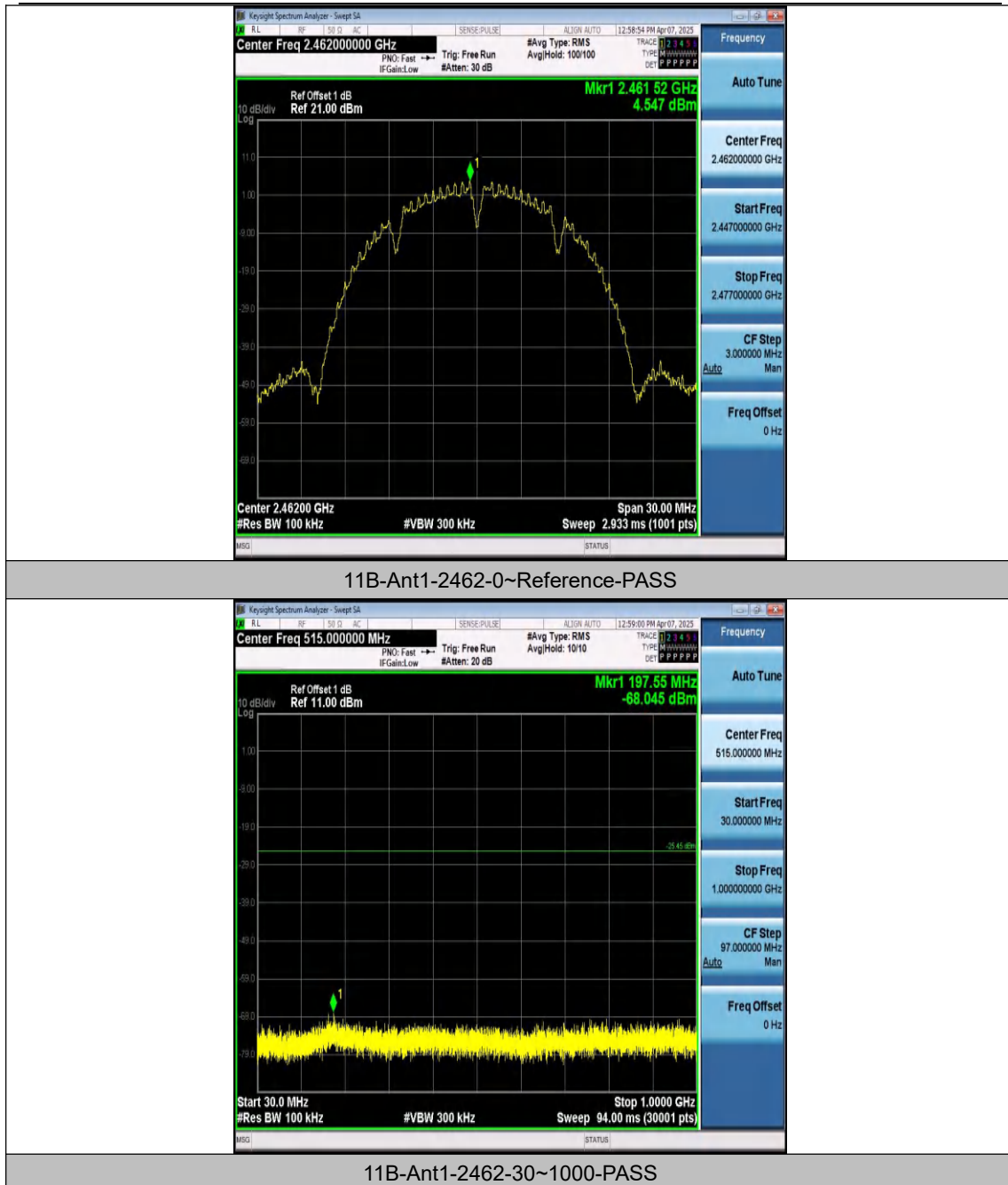
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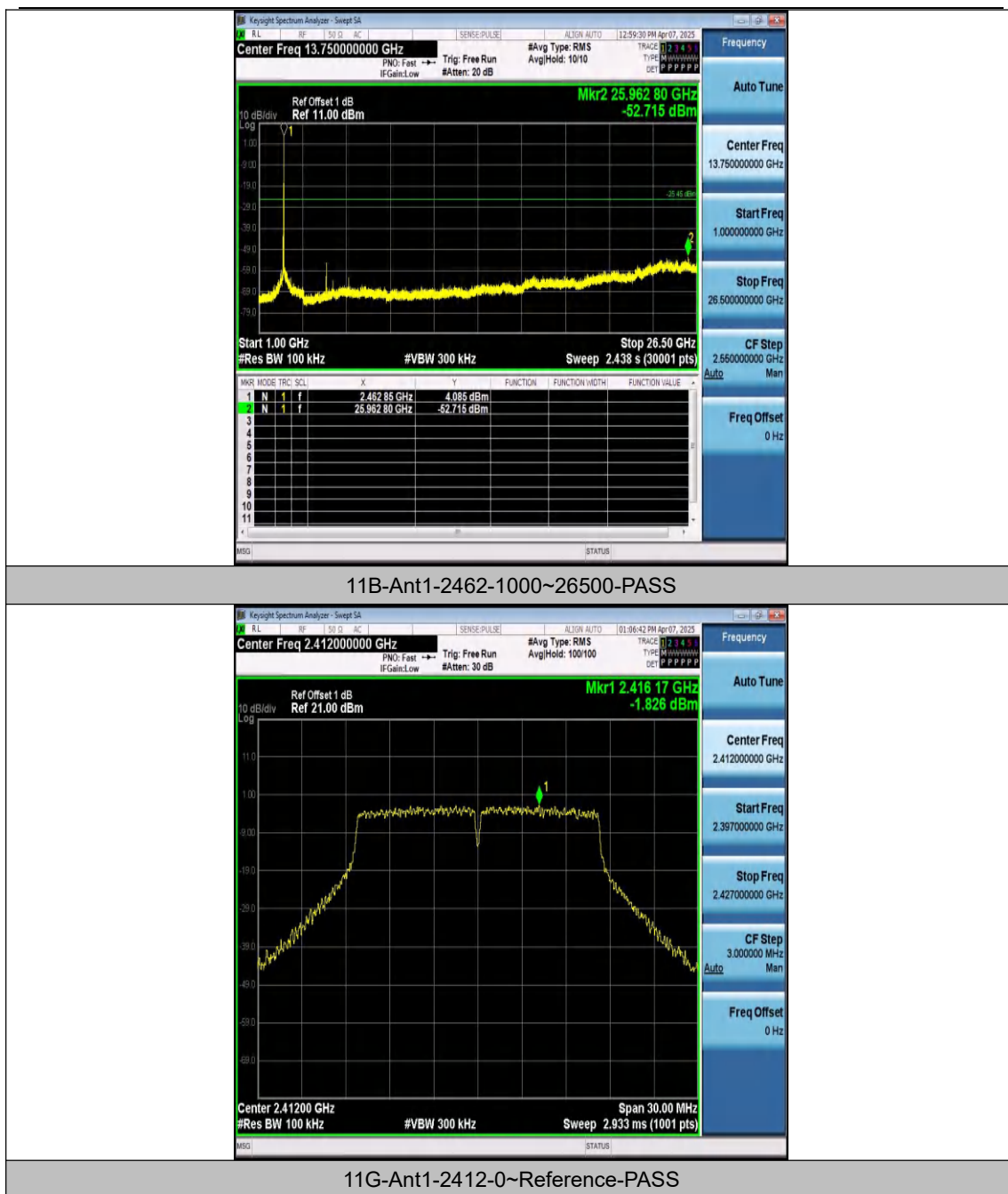


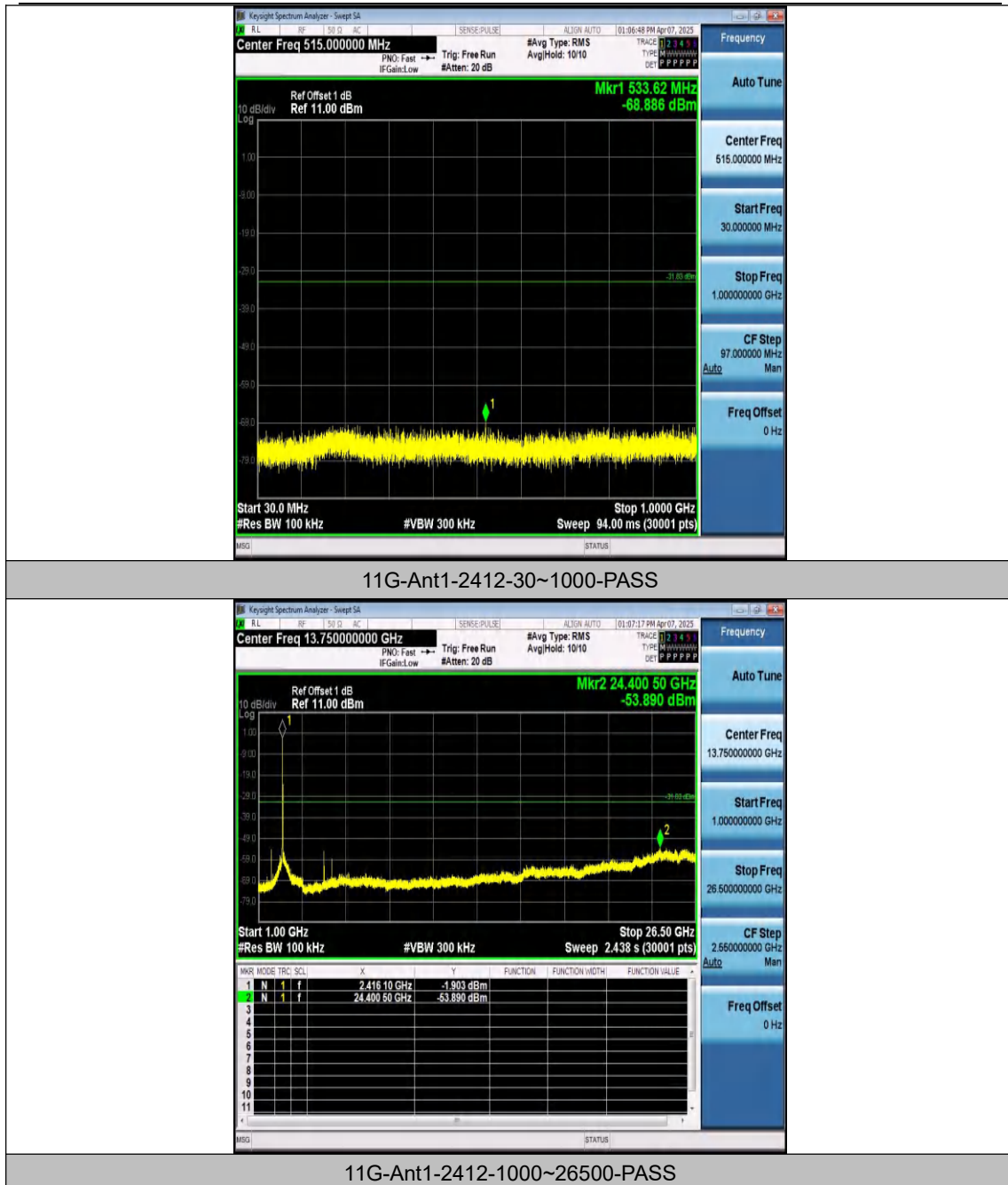


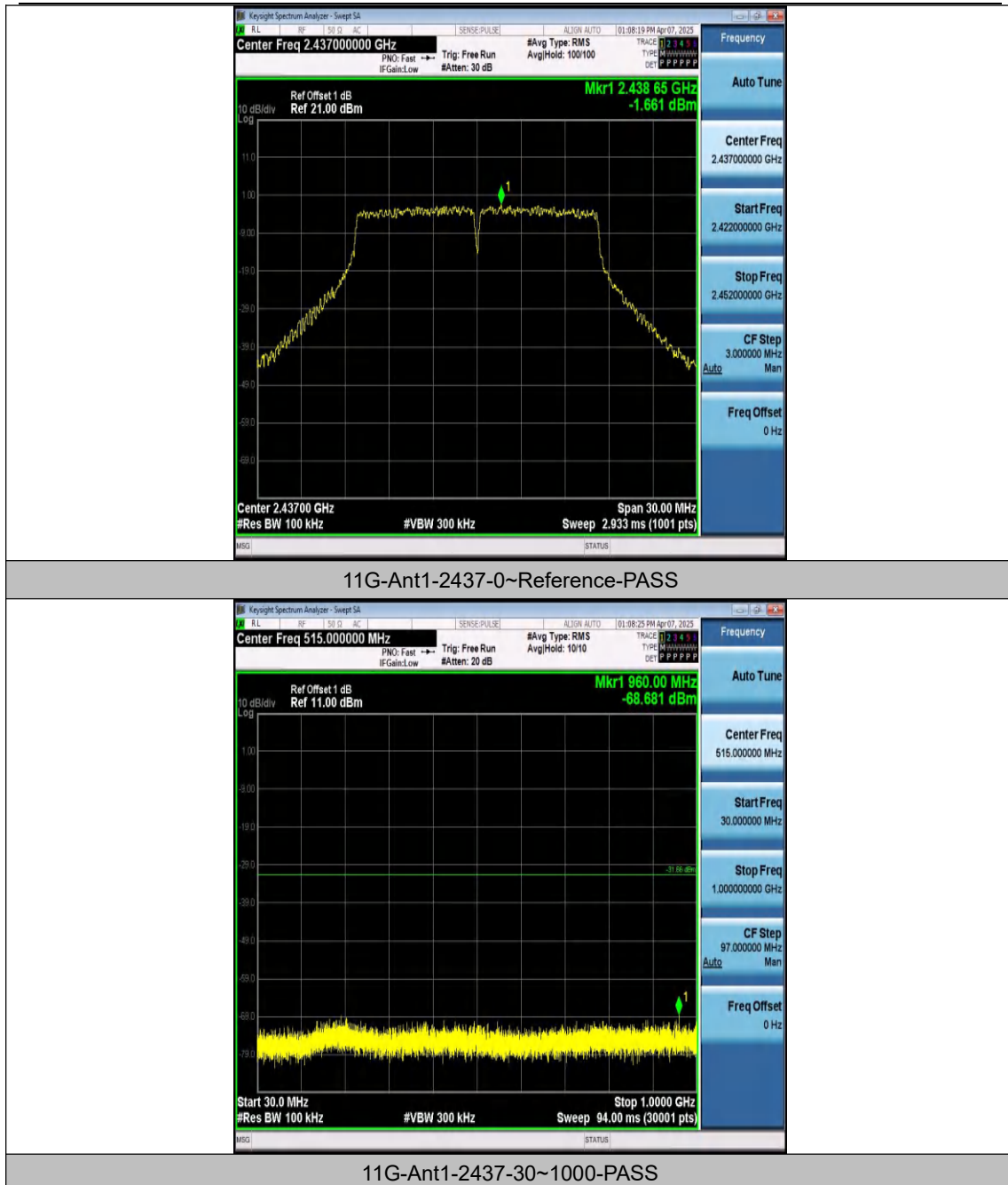
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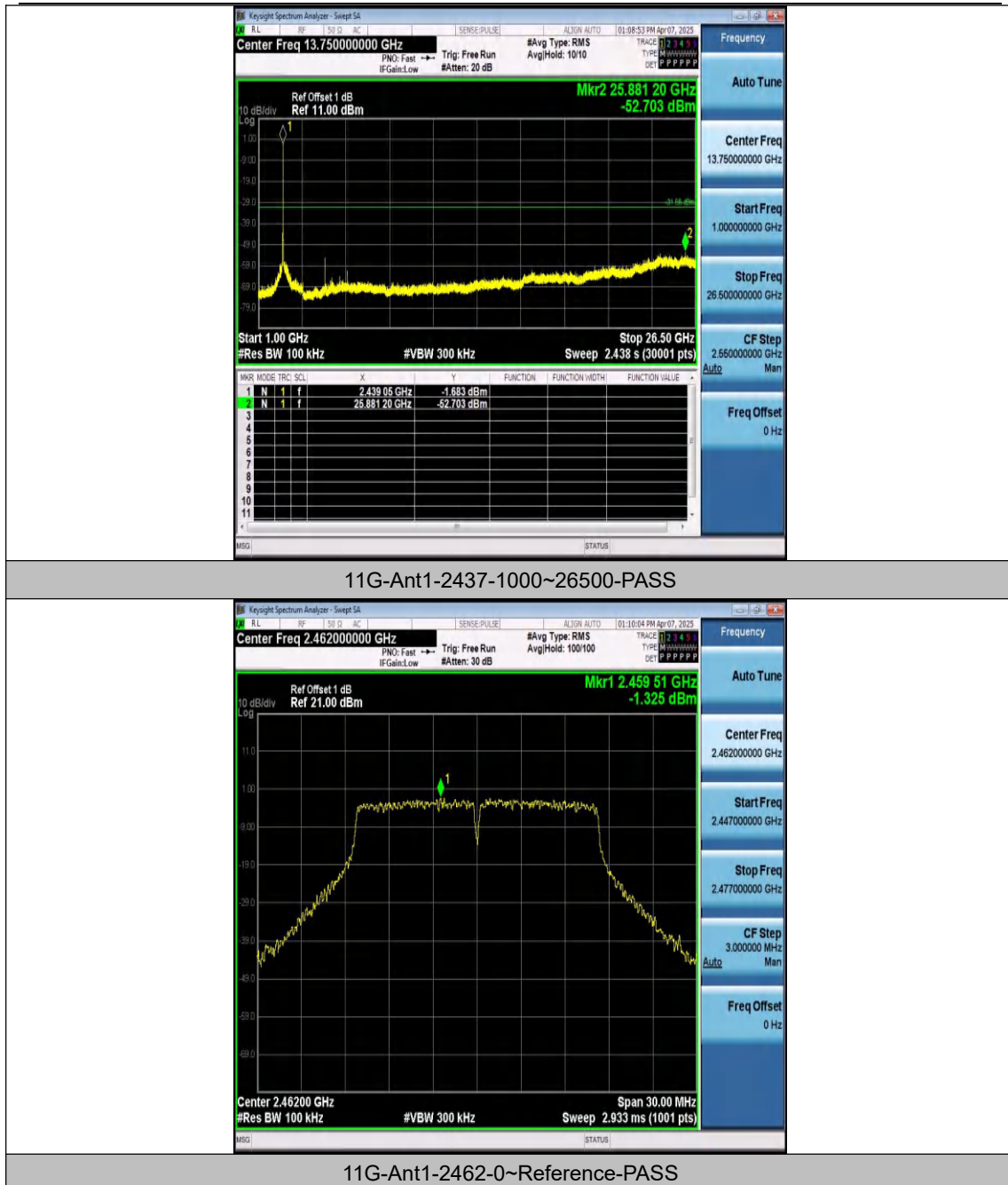




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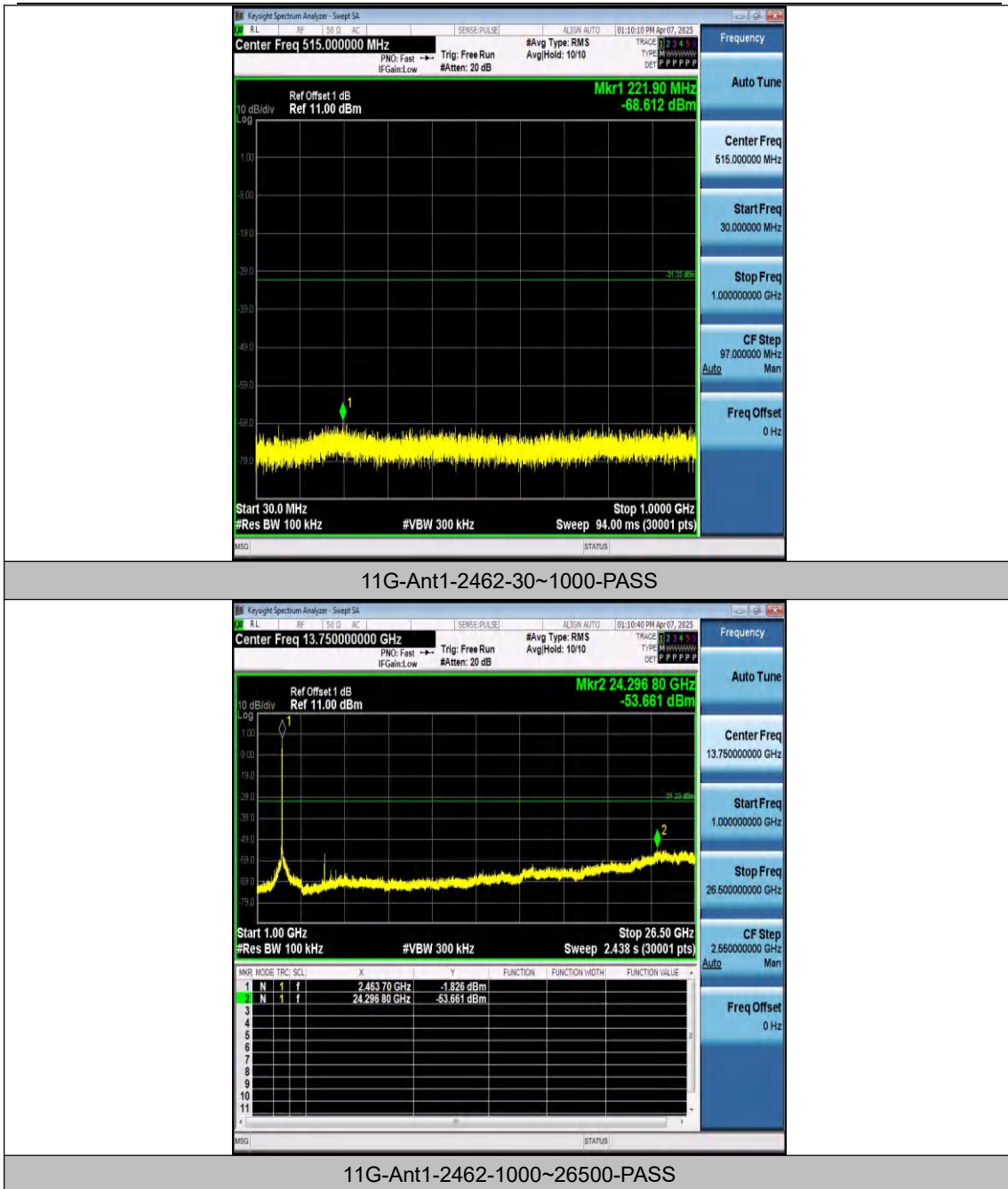
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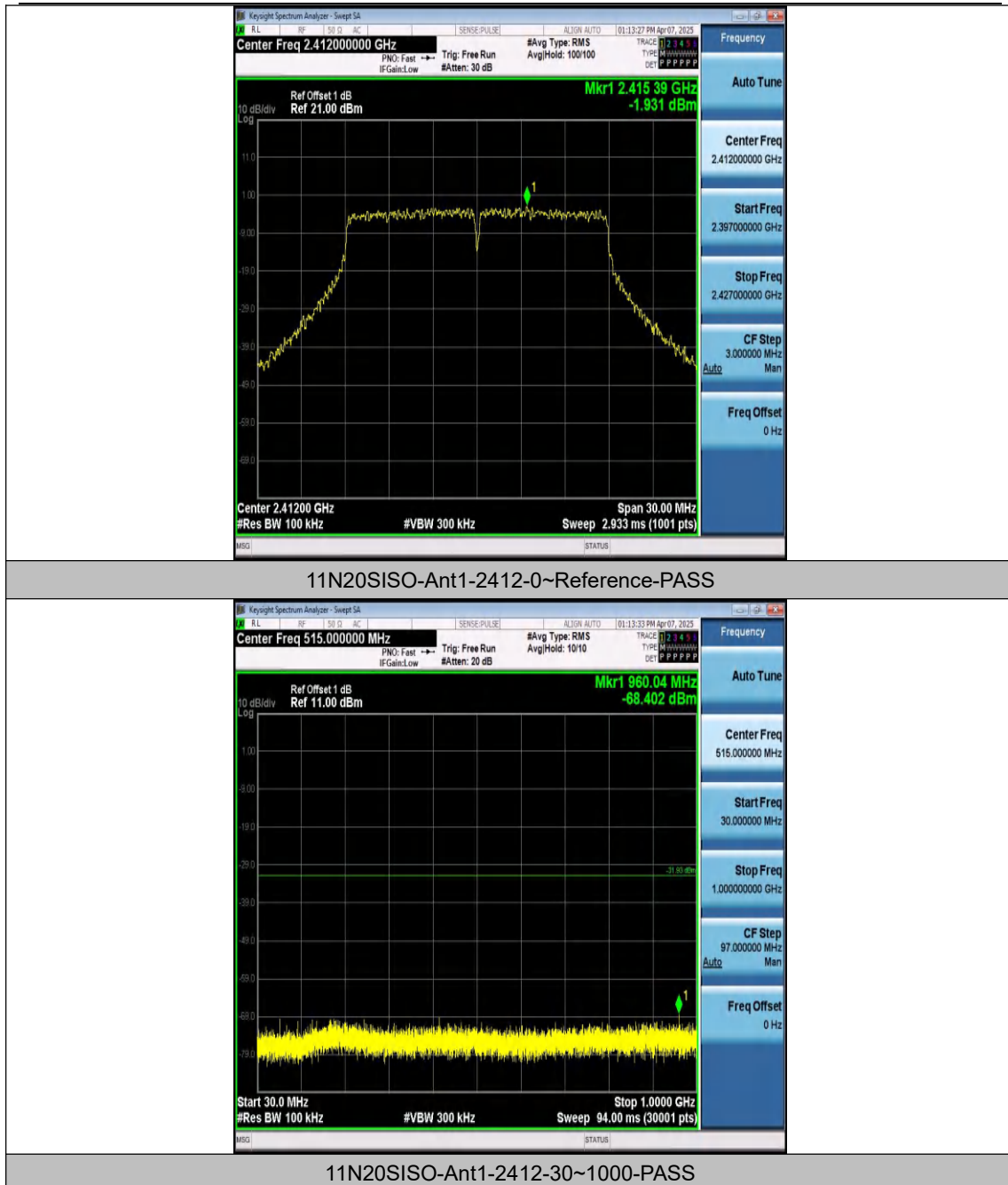


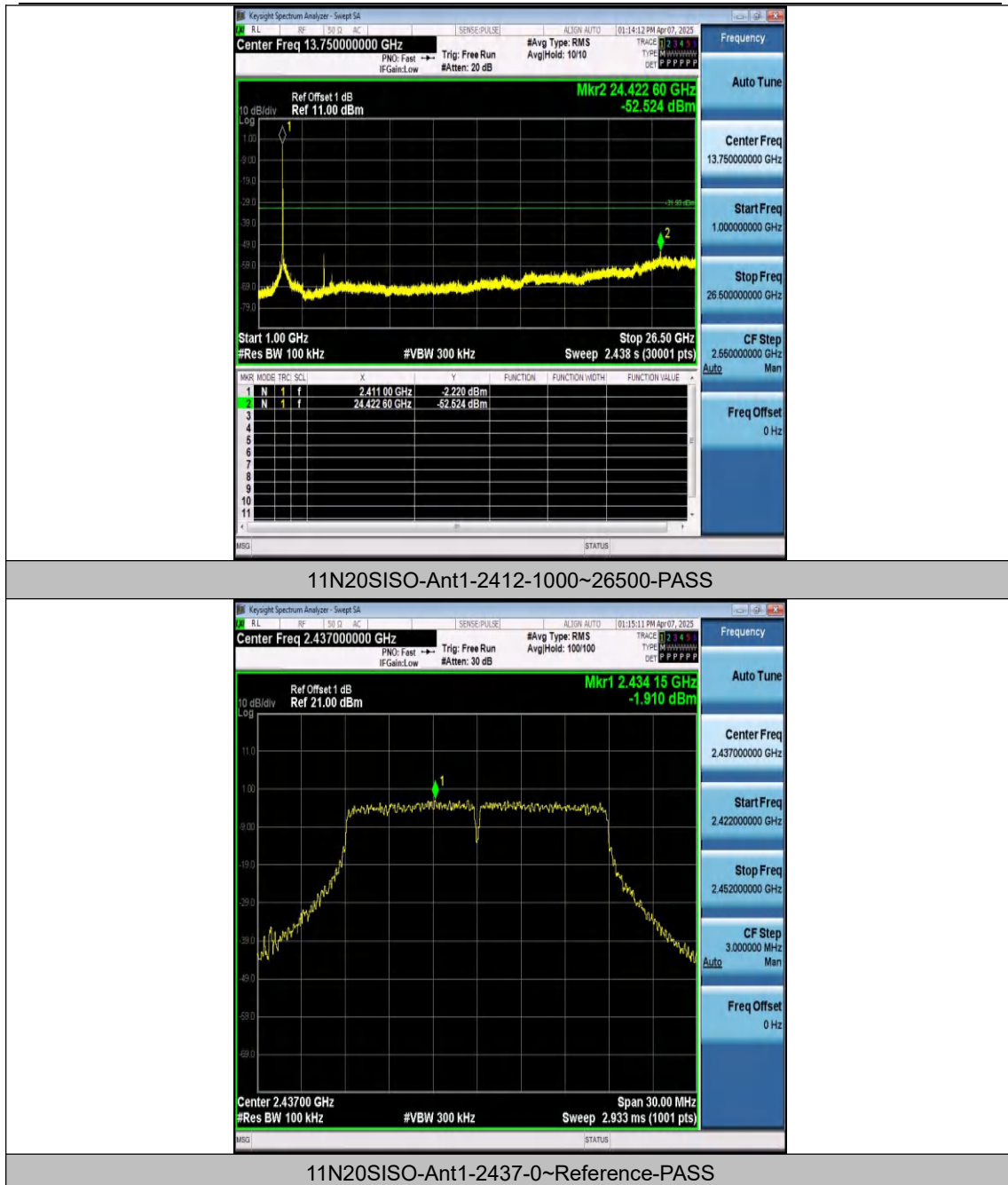
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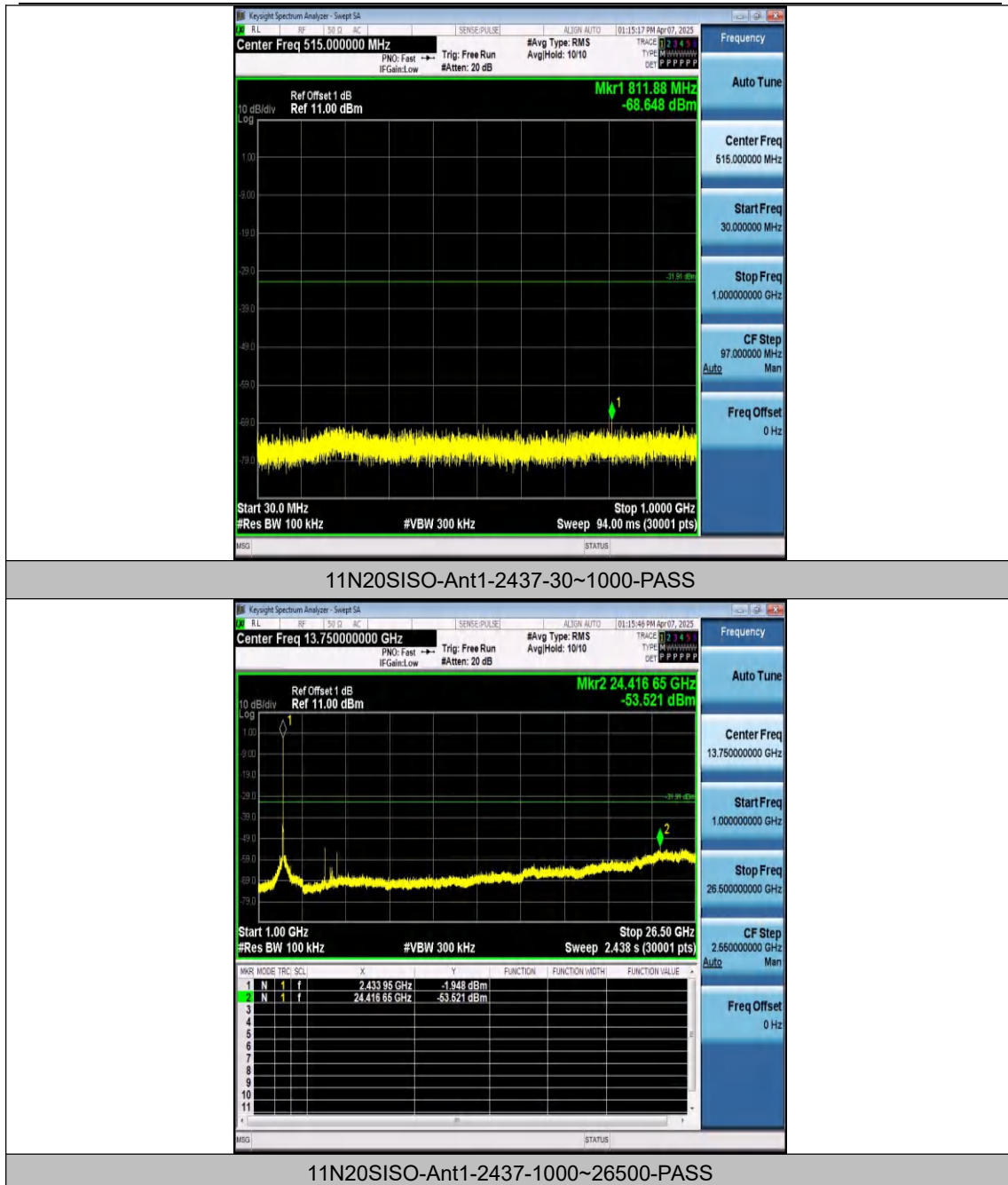




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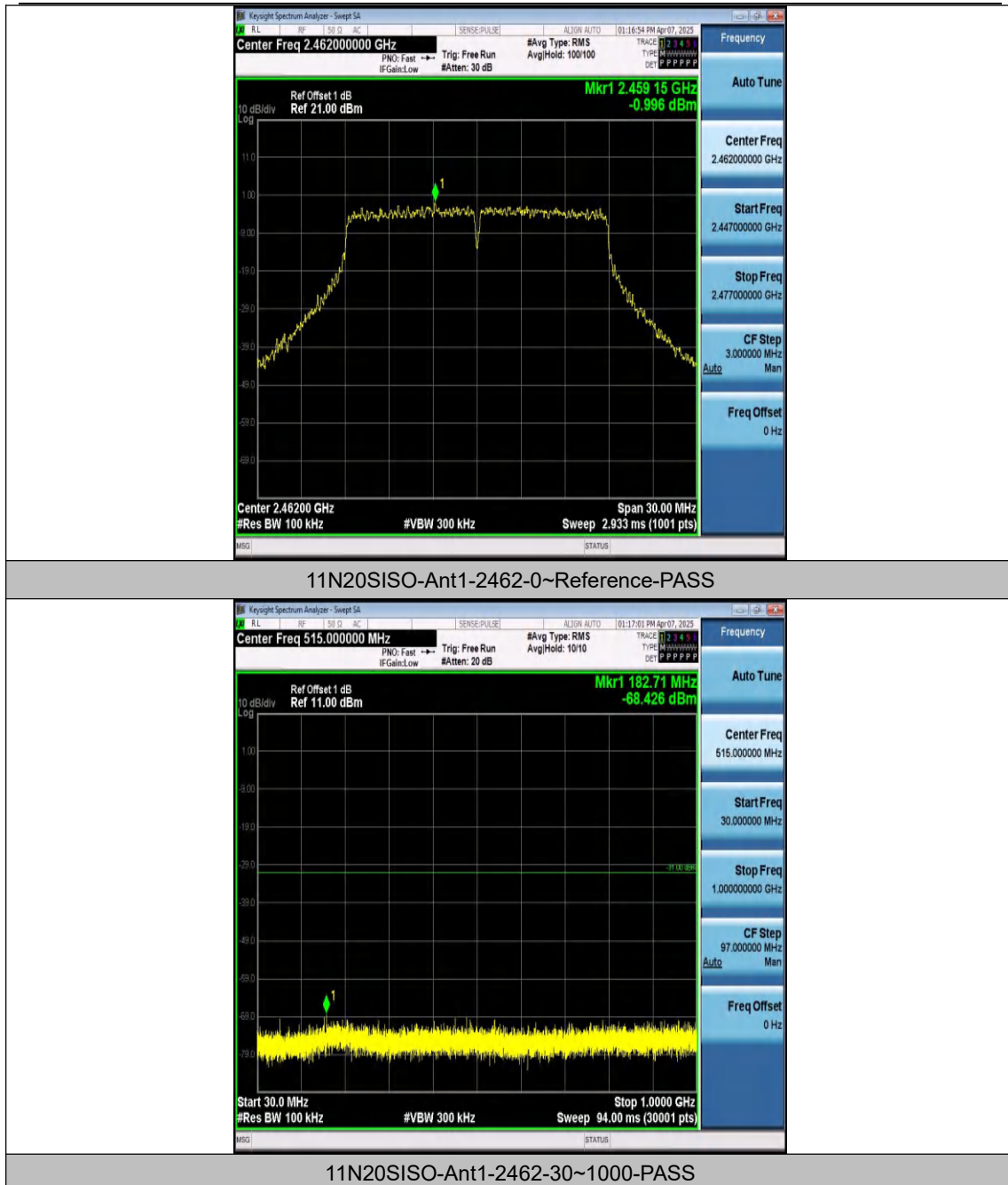
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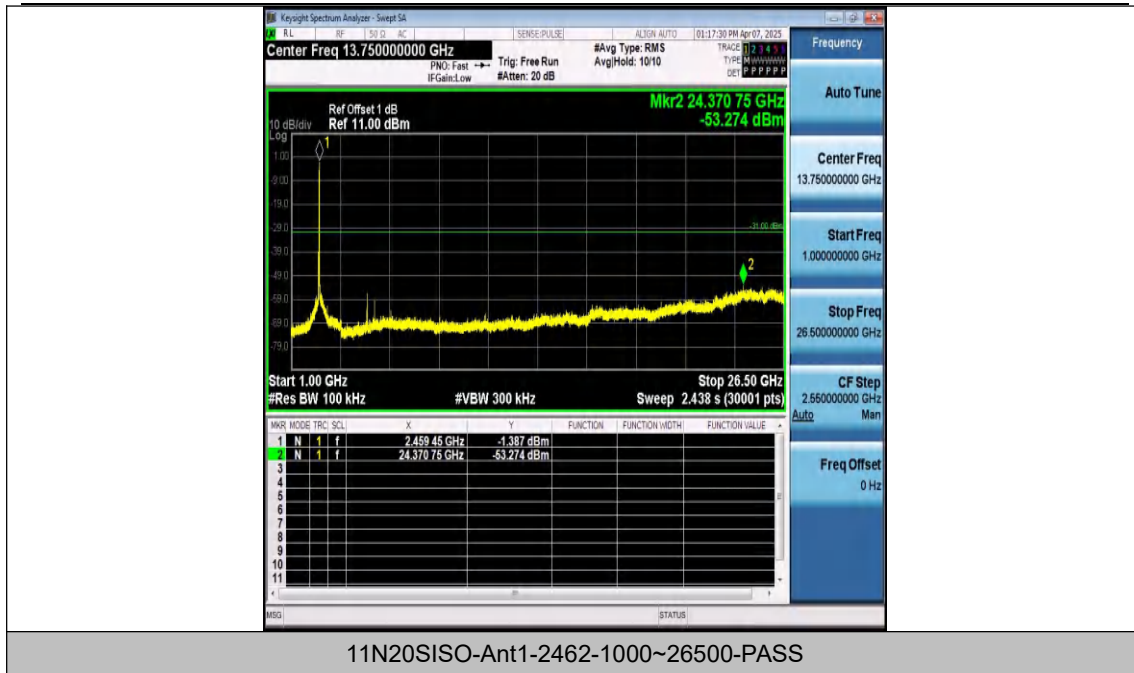


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	100.00	100.00	100.00	0.00
11B	Ant1	2437	100.00	100.00	100.00	0.00
11B	Ant1	2462	100.00	100.00	100.00	0.00
11G	Ant1	2412	100.00	100.00	100.00	0.00
11G	Ant1	2437	100.00	100.00	100.00	0.00
11G	Ant1	2462	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2412	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2462	100.00	100.00	100.00	0.00

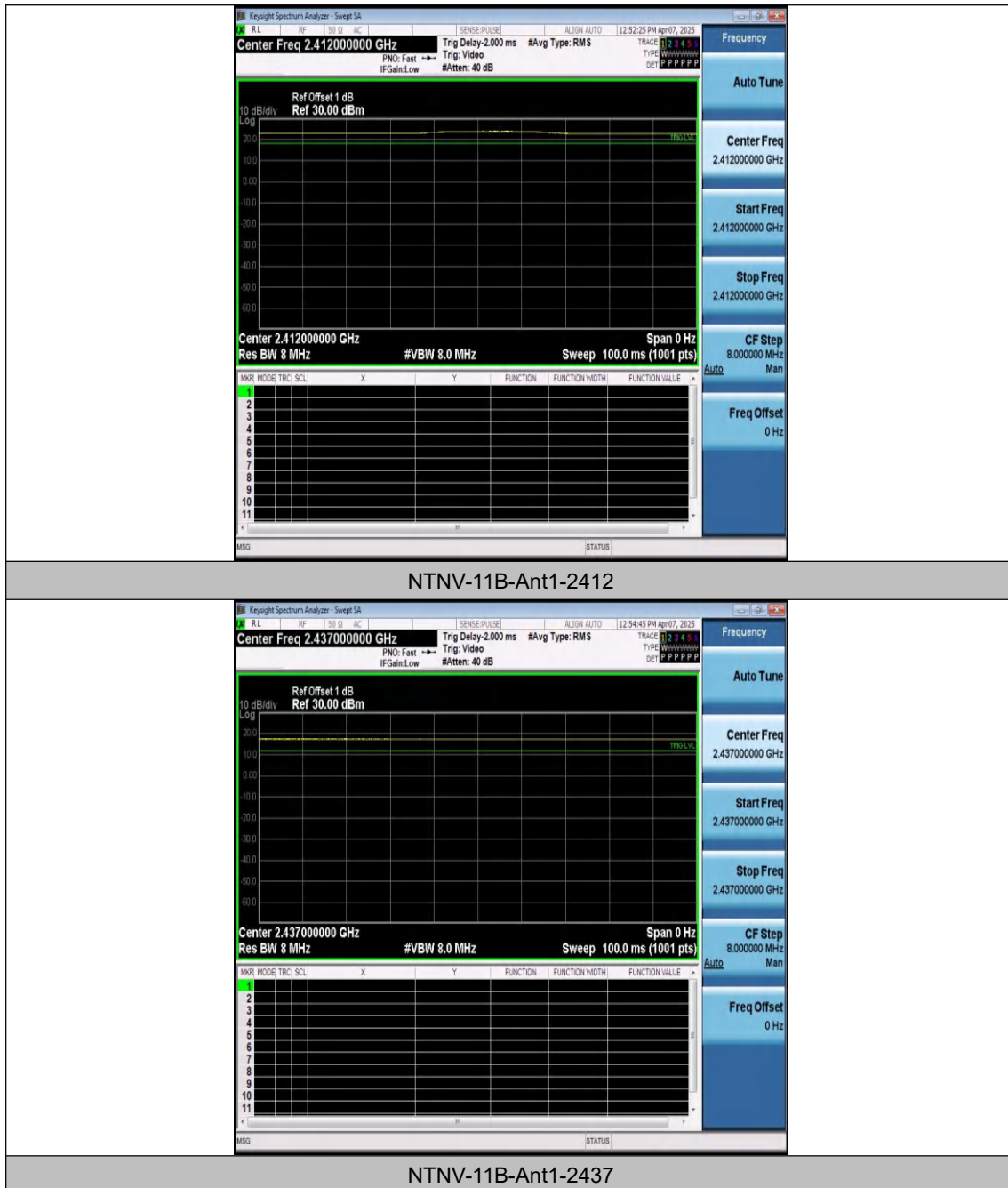
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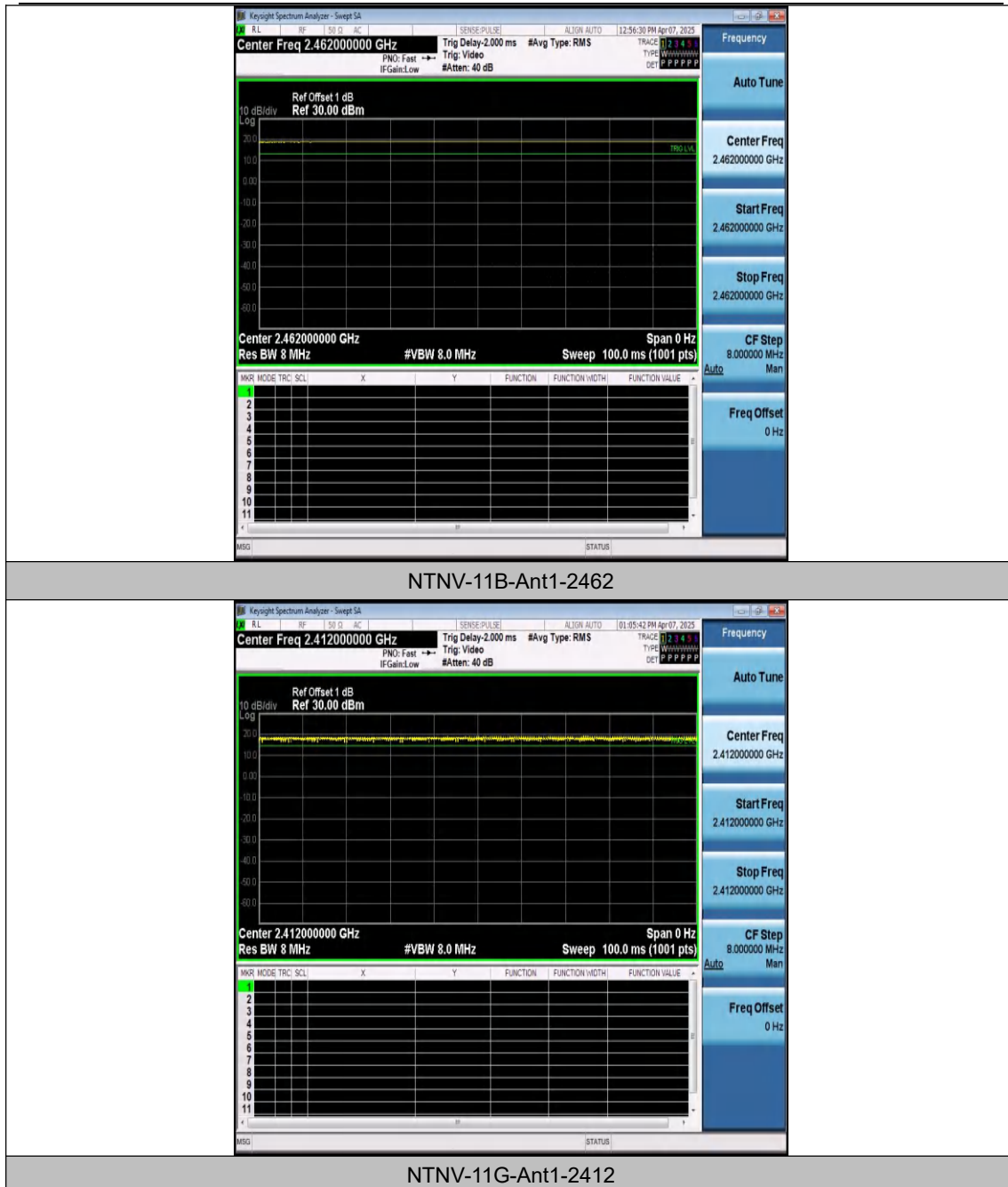
Test Graphs



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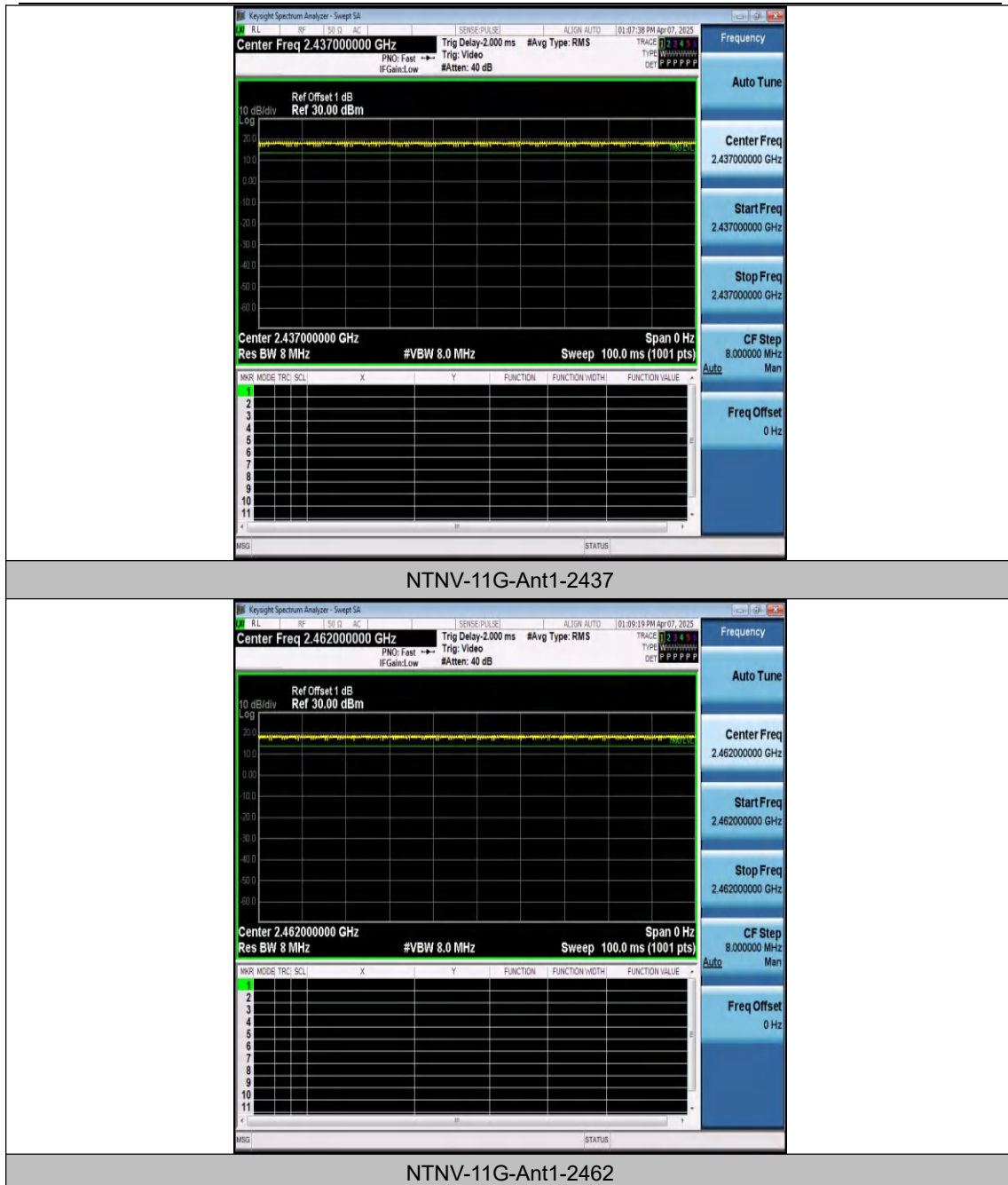
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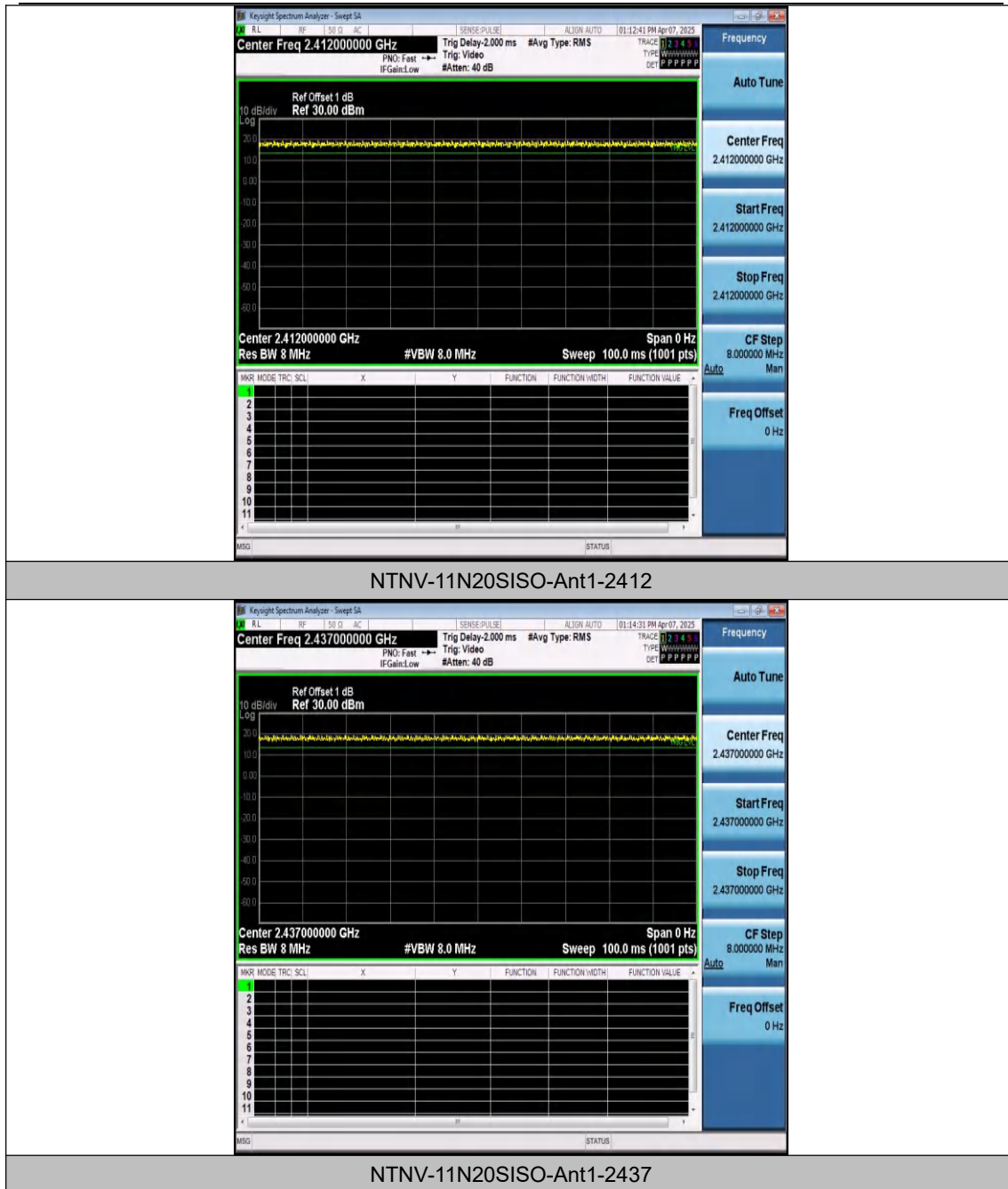
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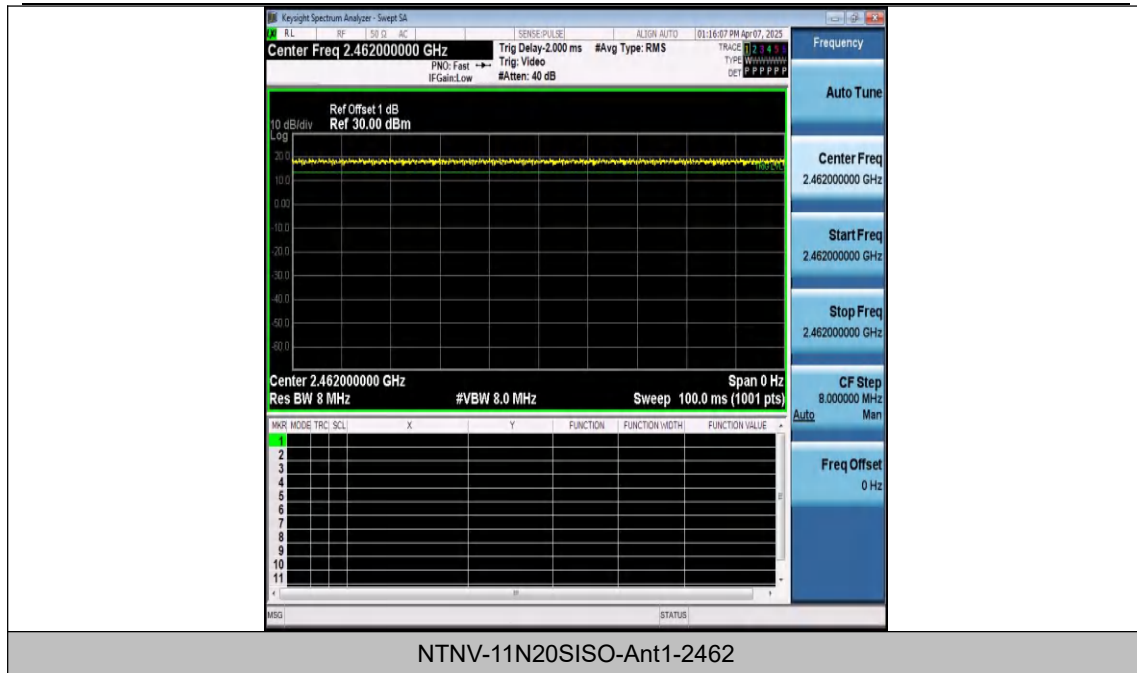
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