

Appendix Test Data

Report No.:	1812C50086712501	Test Sample No.:	1-2-2
Start Test Date:	2025.03.13	Finish Test Date:	2025.03.13
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.4°C	Relative Humidity:	46%
Pressure:	101kPa		

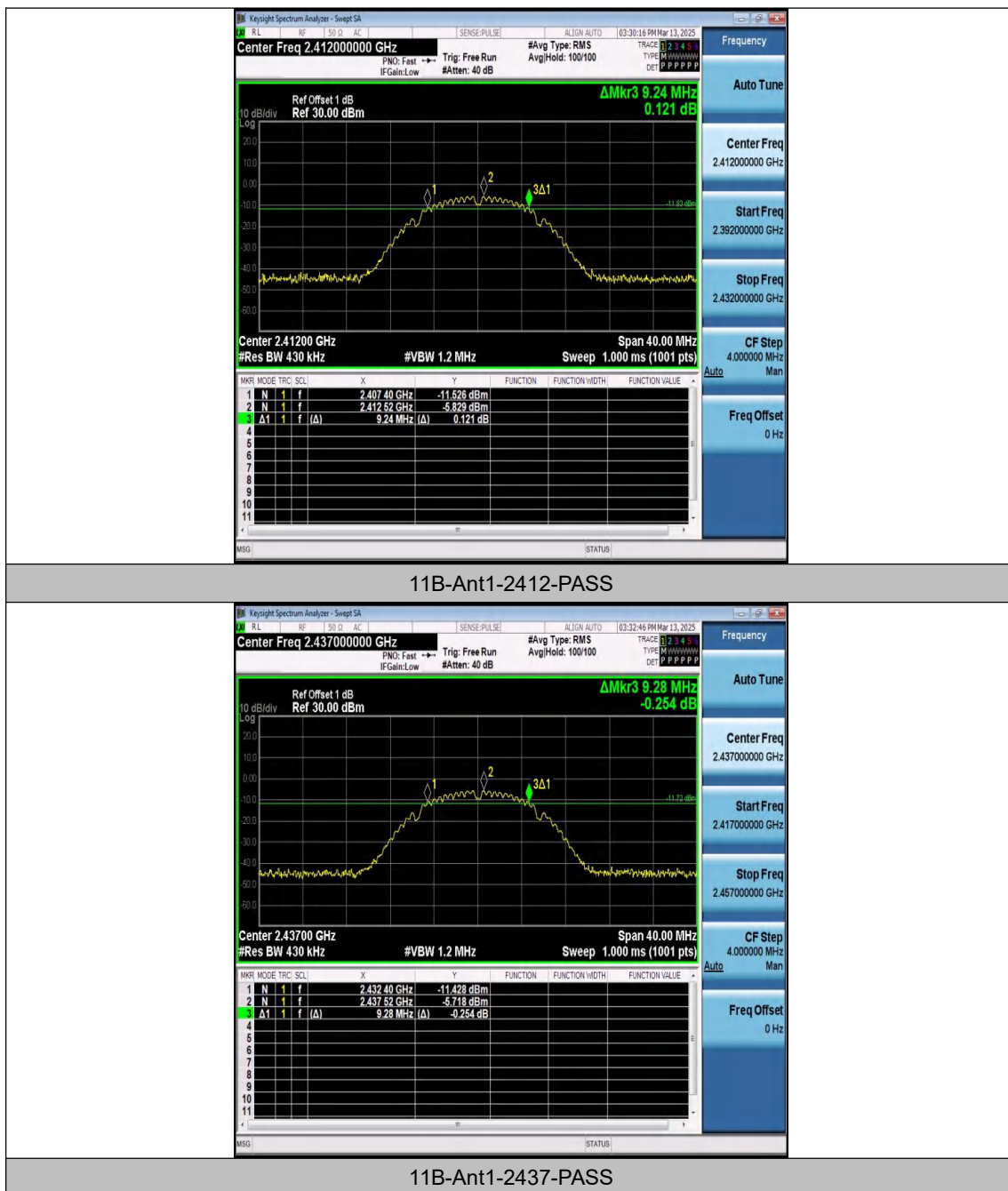
Appendix A: 6dB Bandwidth

Test Result

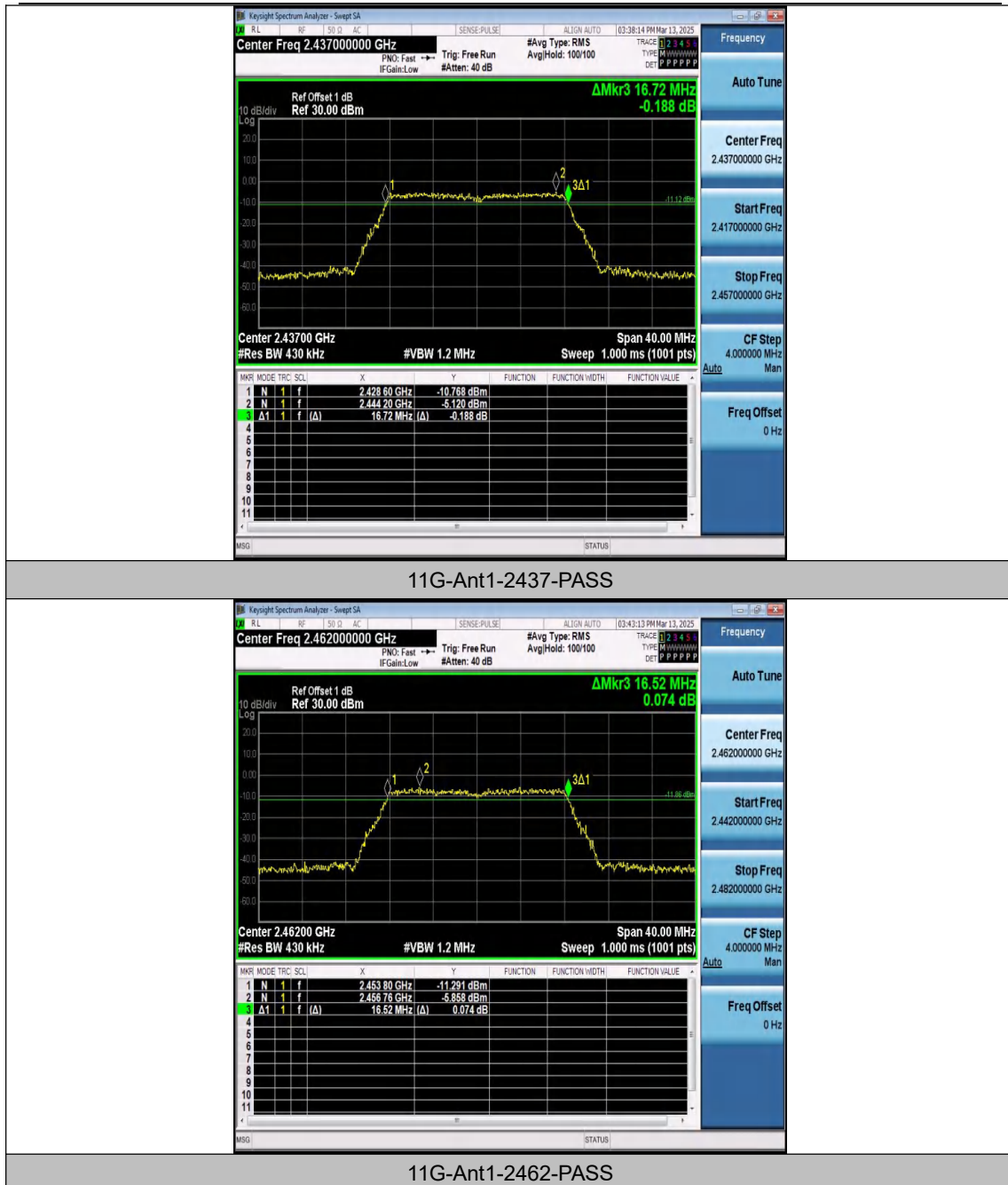
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.240	2407.400	2416.640	0.5	PASS
11B	Ant1	2437	9.280	2432.400	2441.680	0.5	PASS
11B	Ant1	2462	9.280	2457.400	2466.680	0.5	PASS
11G	Ant1	2412	16.560	2403.720	2420.280	0.5	PASS
11G	Ant1	2437	16.720	2428.600	2445.320	0.5	PASS
11G	Ant1	2462	16.520	2453.800	2470.320	0.5	PASS
11N20SISO	Ant1	2412	17.800	2403.160	2420.960	0.5	PASS
11N20SISO	Ant1	2437	17.640	2428.240	2445.880	0.5	PASS
11N20SISO	Ant1	2462	17.720	2453.200	2470.920	0.5	PASS

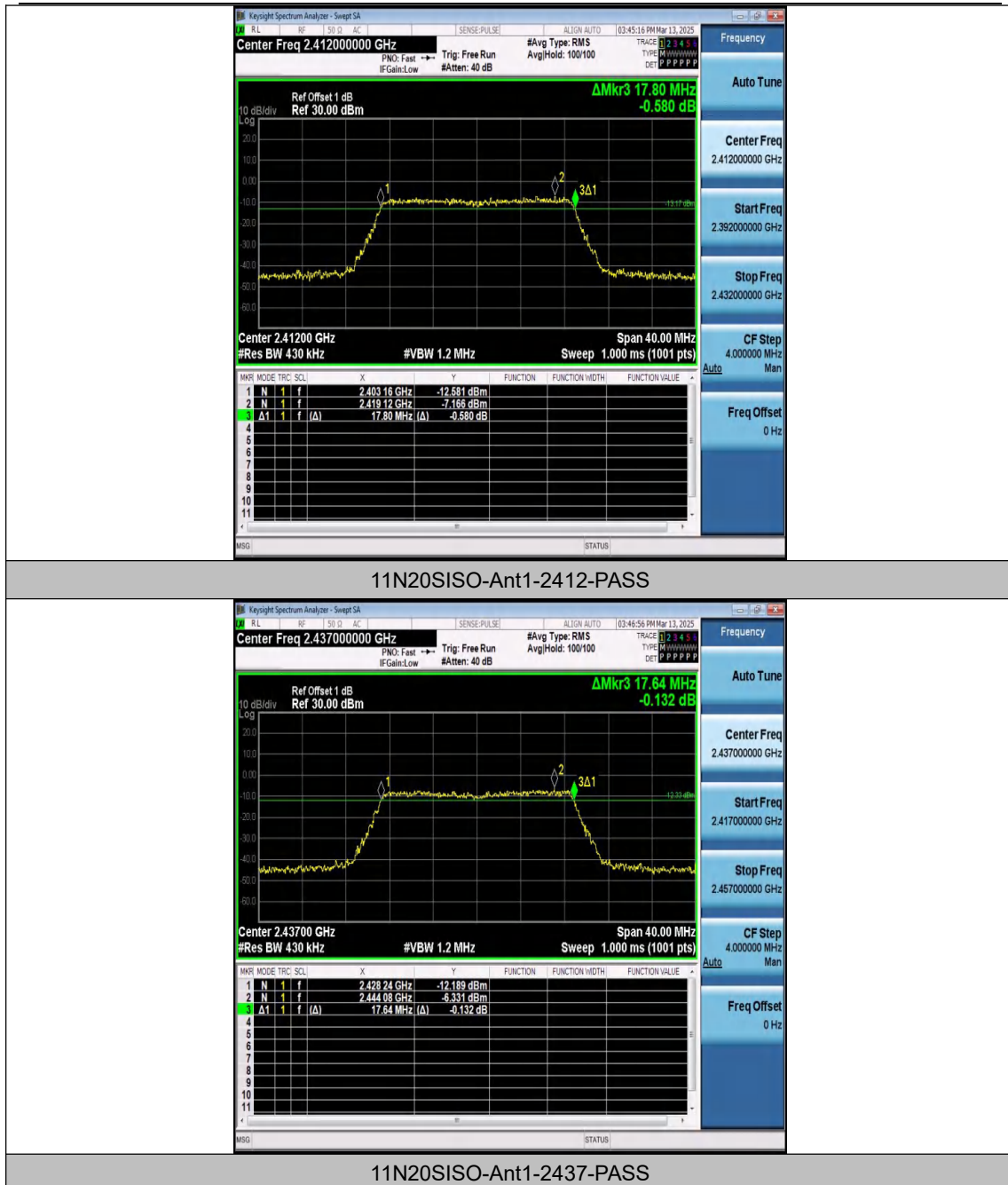


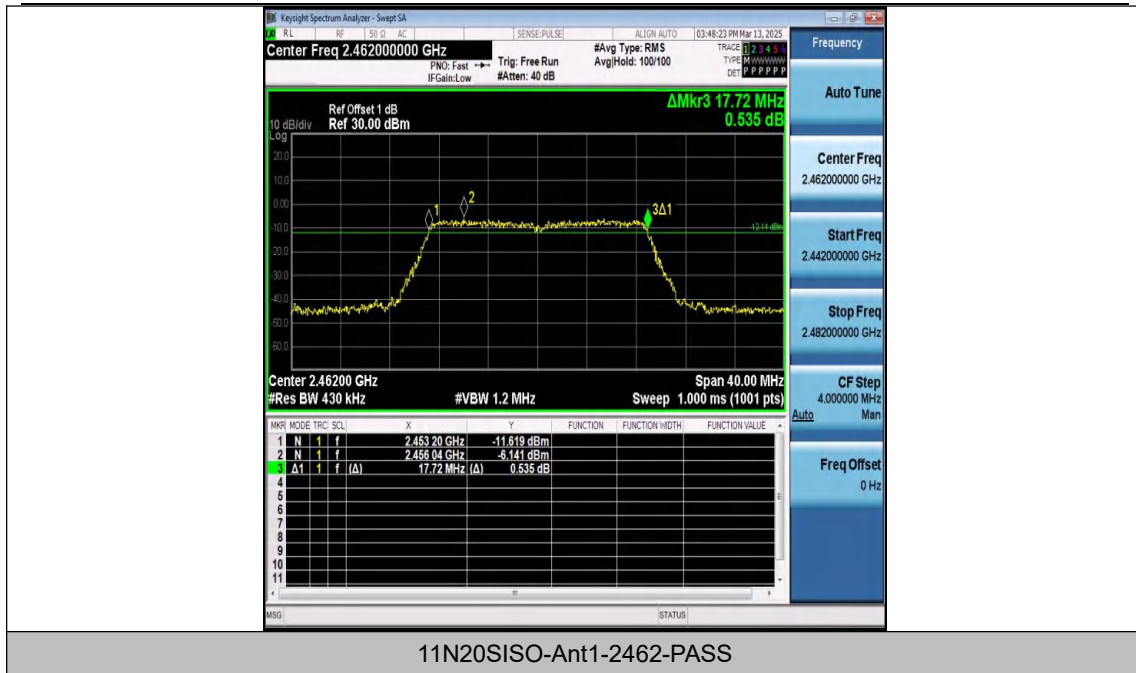
Test Graphs











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Appendix B: 99% Occupied Bandwidth

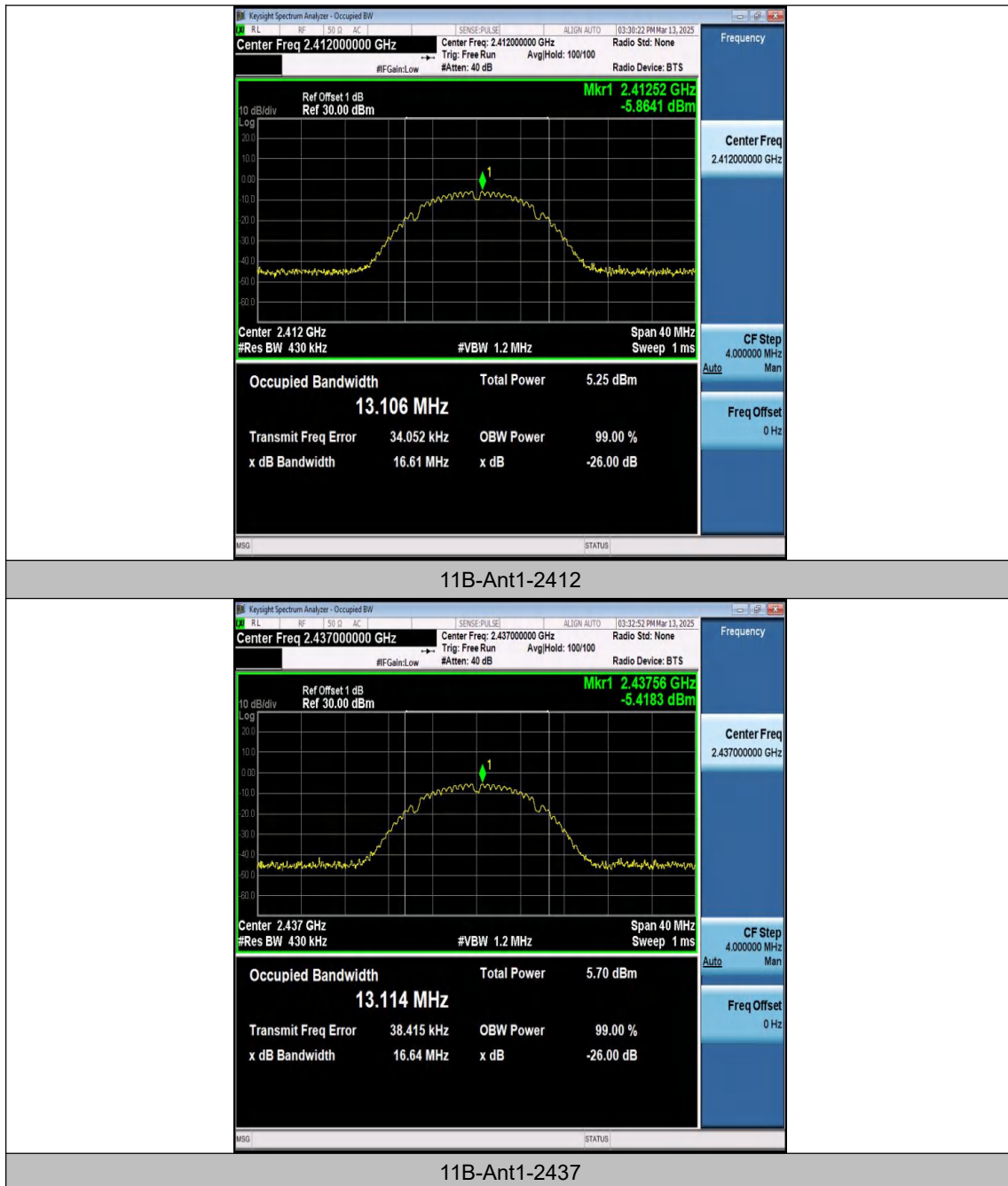
Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.106	2405.4811	2418.5871	---	---
11B	Ant1	2437	13.114	2430.4814	2443.5954	---	---
11B	Ant1	2462	13.082	2455.5037	2468.5857	---	---
11G	Ant1	2412	17.176	2403.4395	2420.6155	---	---
11G	Ant1	2437	17.127	2428.4682	2445.5952	---	---
11G	Ant1	2462	17.108	2453.4775	2470.5855	---	---
11N20SISO	Ant1	2412	18.078	2403.0101	2421.0881	---	---
11N20SISO	Ant1	2437	18.115	2427.9567	2446.0717	---	---
11N20SISO	Ant1	2462	18.011	2453.0237	2471.0347	---	---

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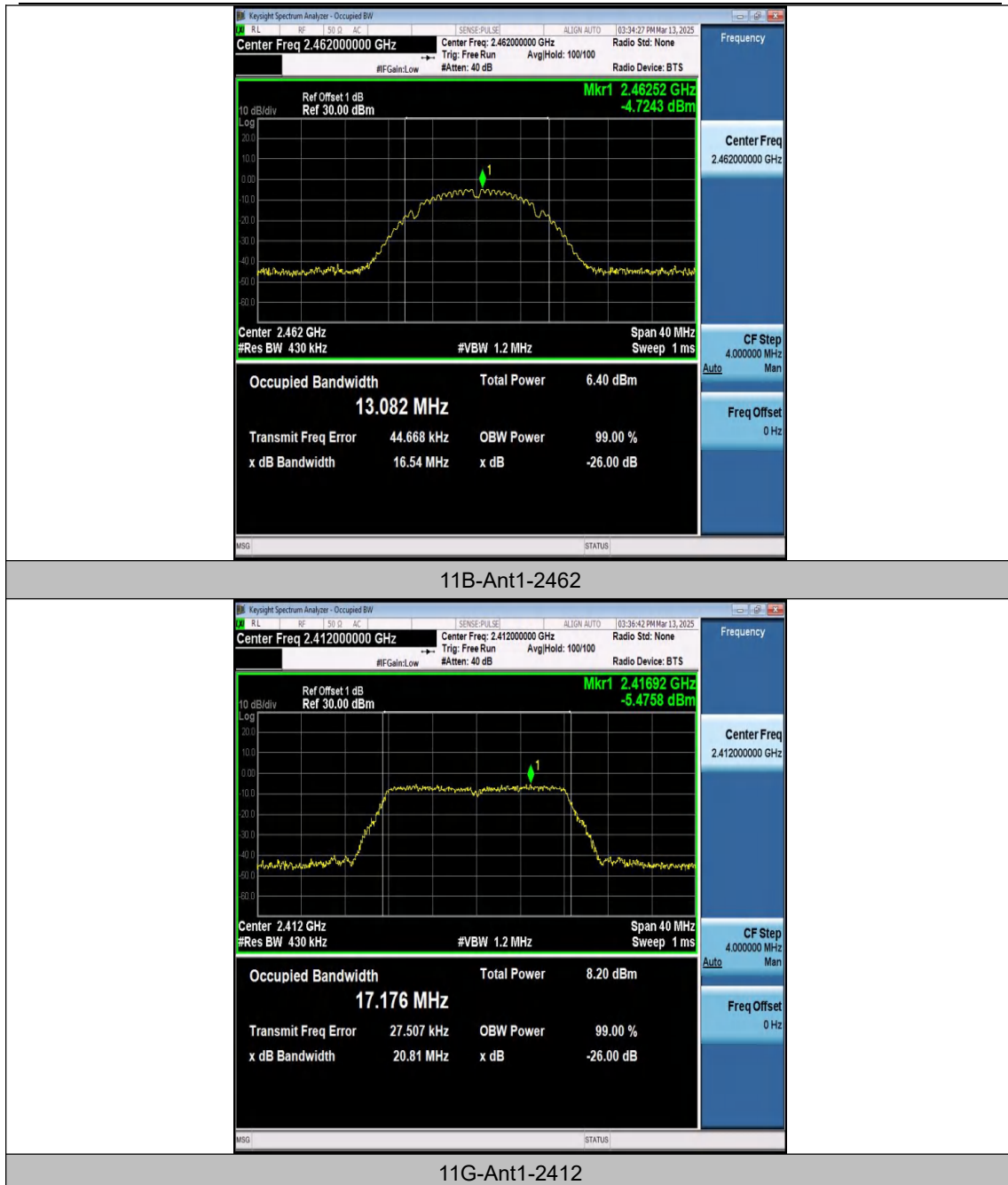
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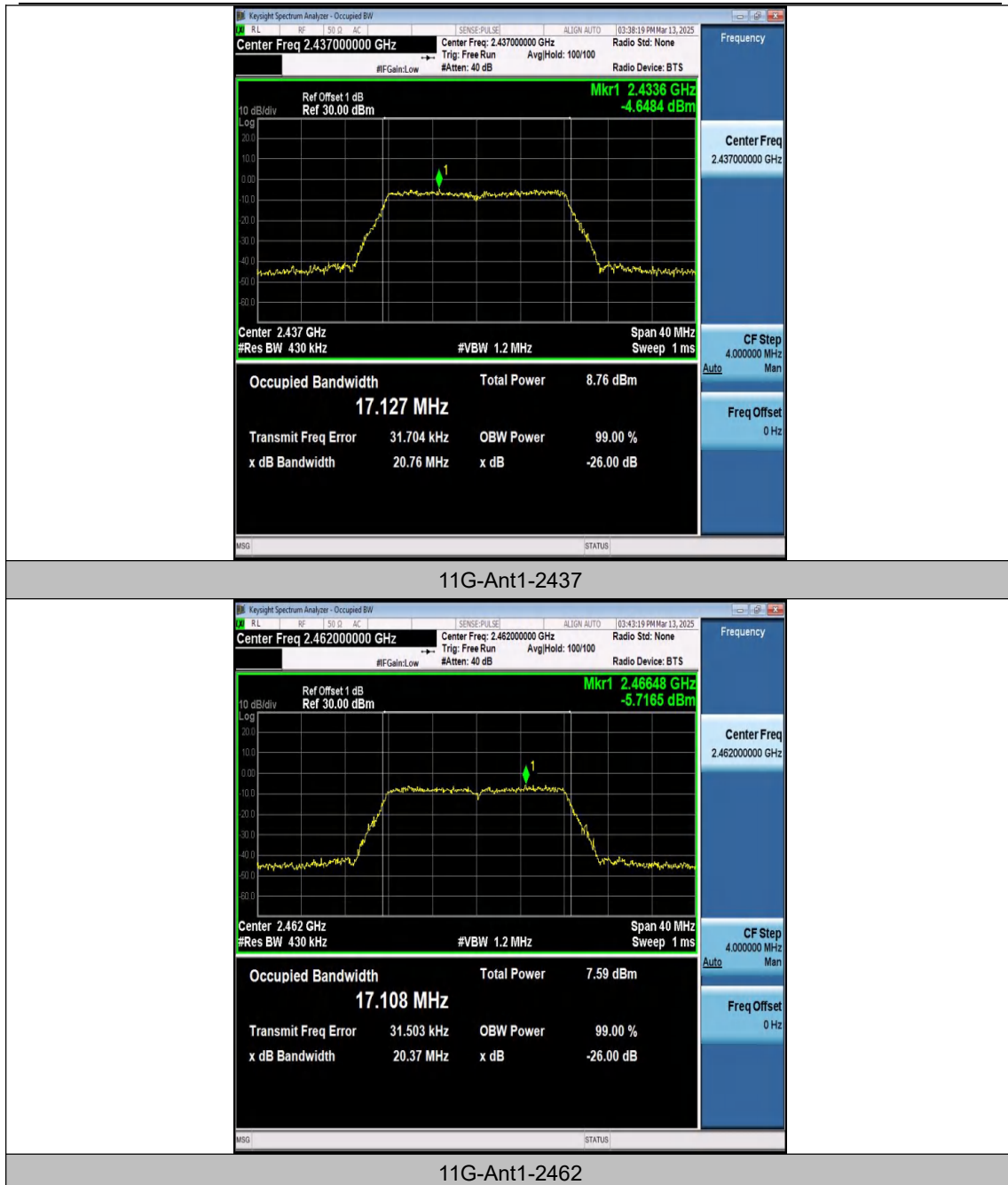


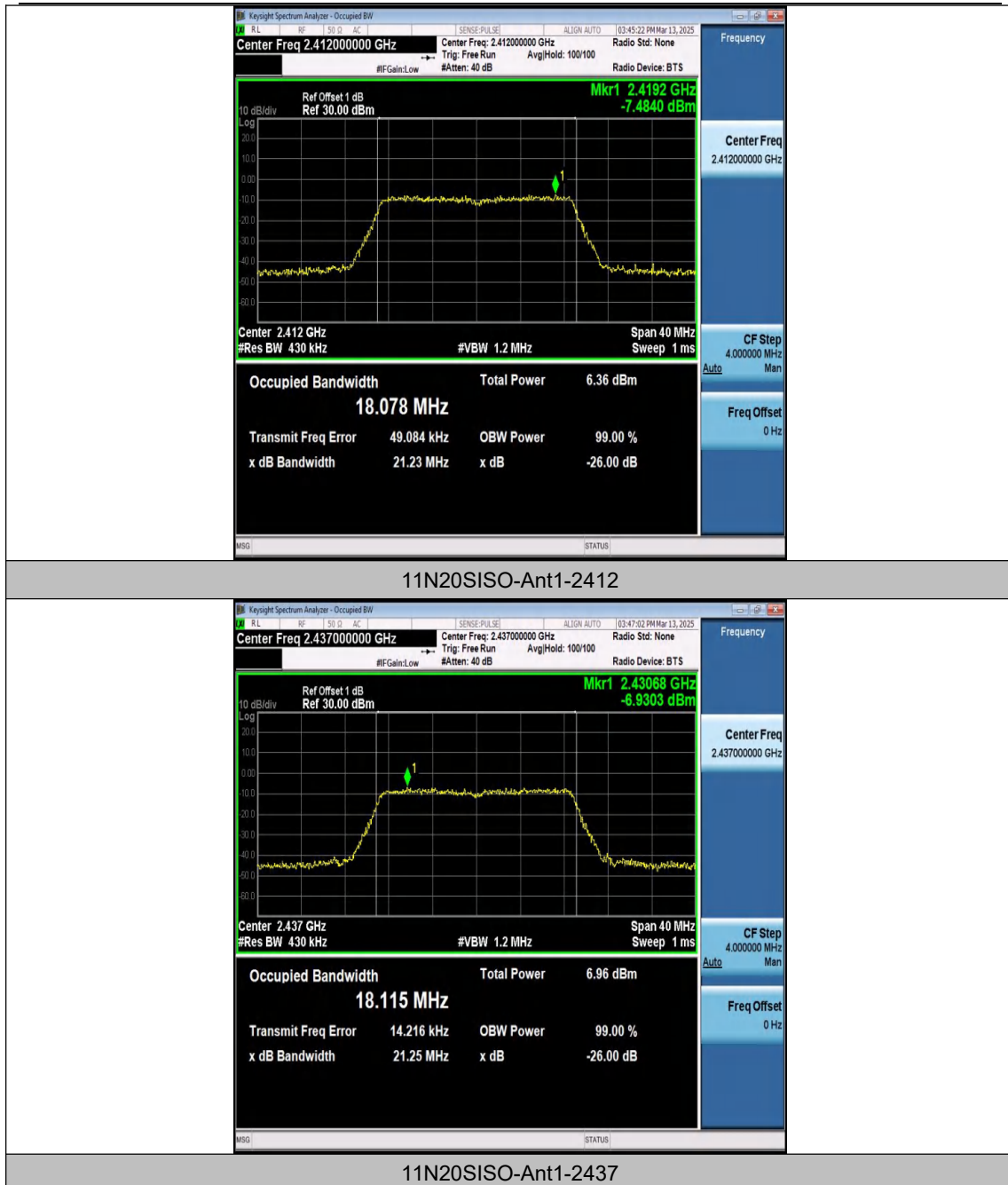
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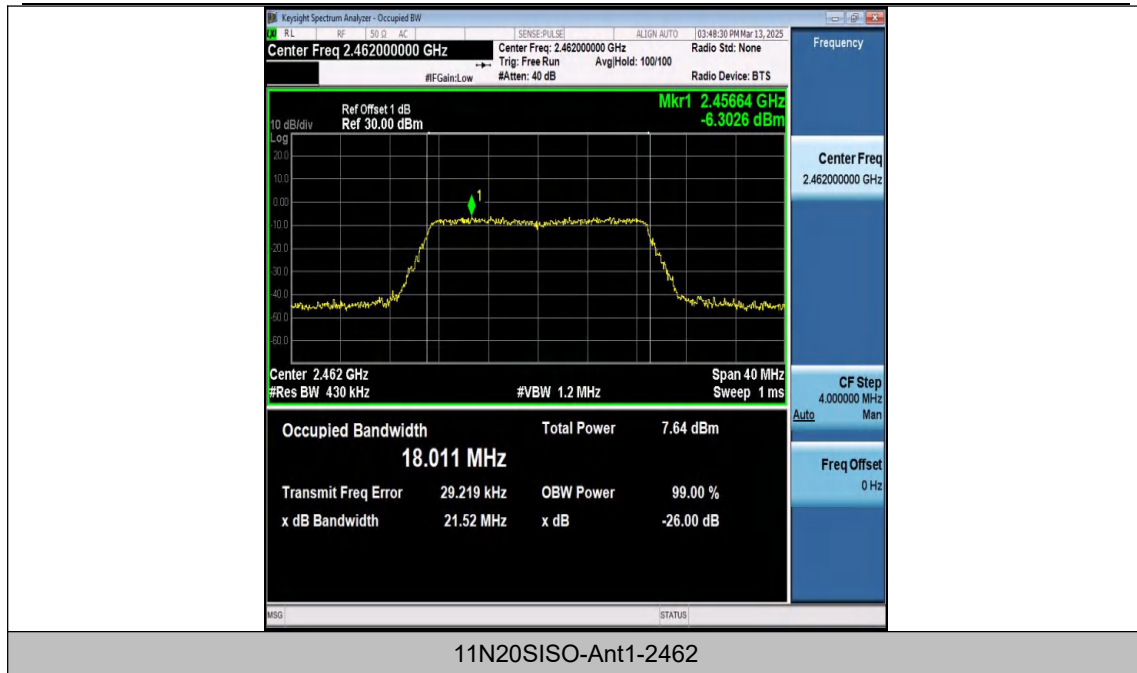


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Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	2.23	99.10	0.04	2.27	≤30.00	PASS
11B	Ant1	2437	2.64	99.10	0.04	2.68	≤30.00	PASS
11B	Ant1	2462	3.33	99.10	0.04	3.37	≤30.00	PASS
11G	Ant1	2412	-0.03	87.30	0.59	0.56	≤30.00	PASS
11G	Ant1	2437	0.69	66.27	1.79	2.48	≤30.00	PASS
11G	Ant1	2462	1.26	64.71	1.89	3.15	≤30.00	PASS
11N20SISO	Ant1	2412	0.03	73.91	1.31	1.34	≤30.00	PASS
11N20SISO	Ant1	2437	0.61	56.67	2.47	3.08	≤30.00	PASS
11N20SISO	Ant1	2462	1.27	67.57	1.70	2.97	≤30.00	PASS

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

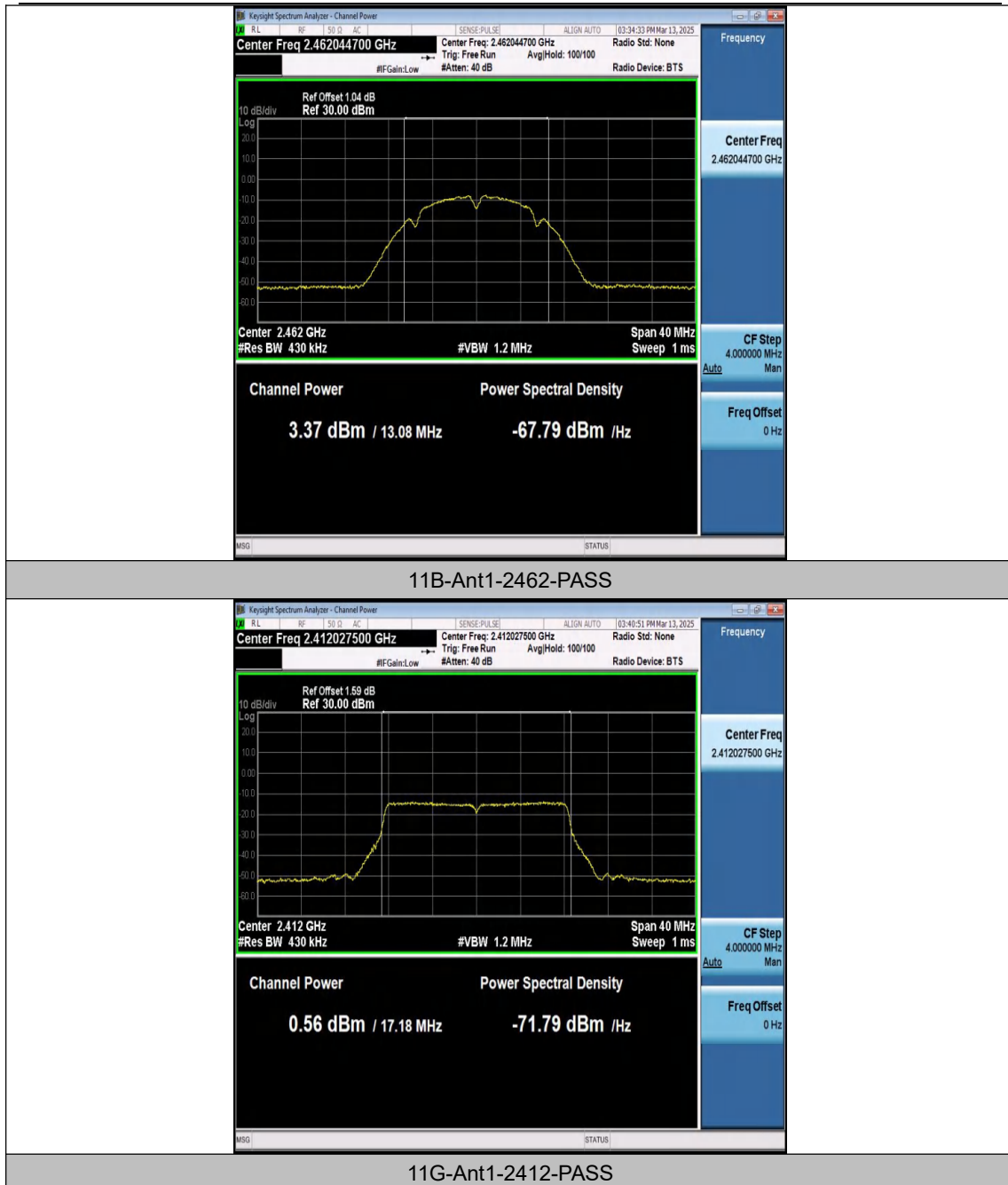
Test Graphs Average



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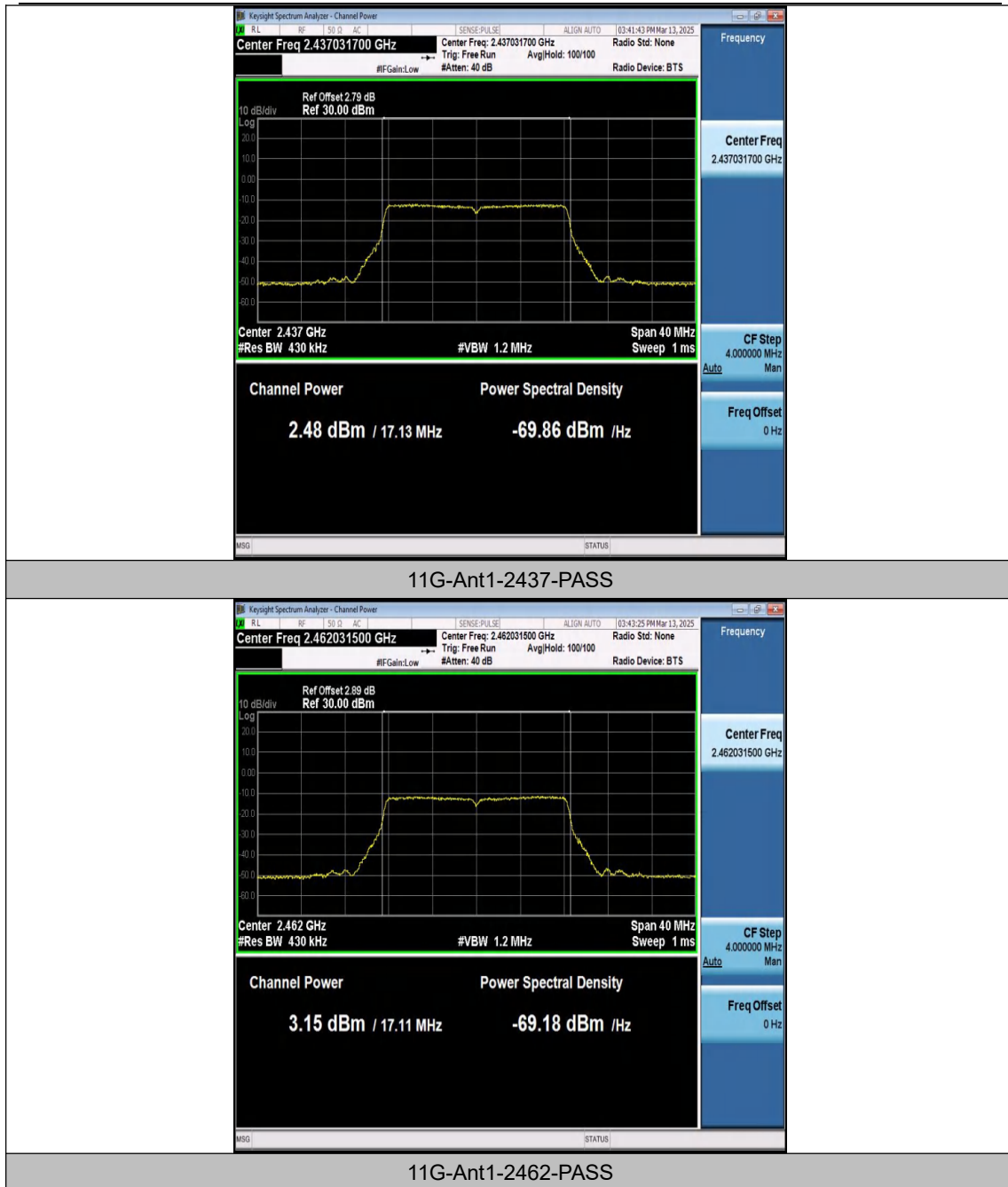
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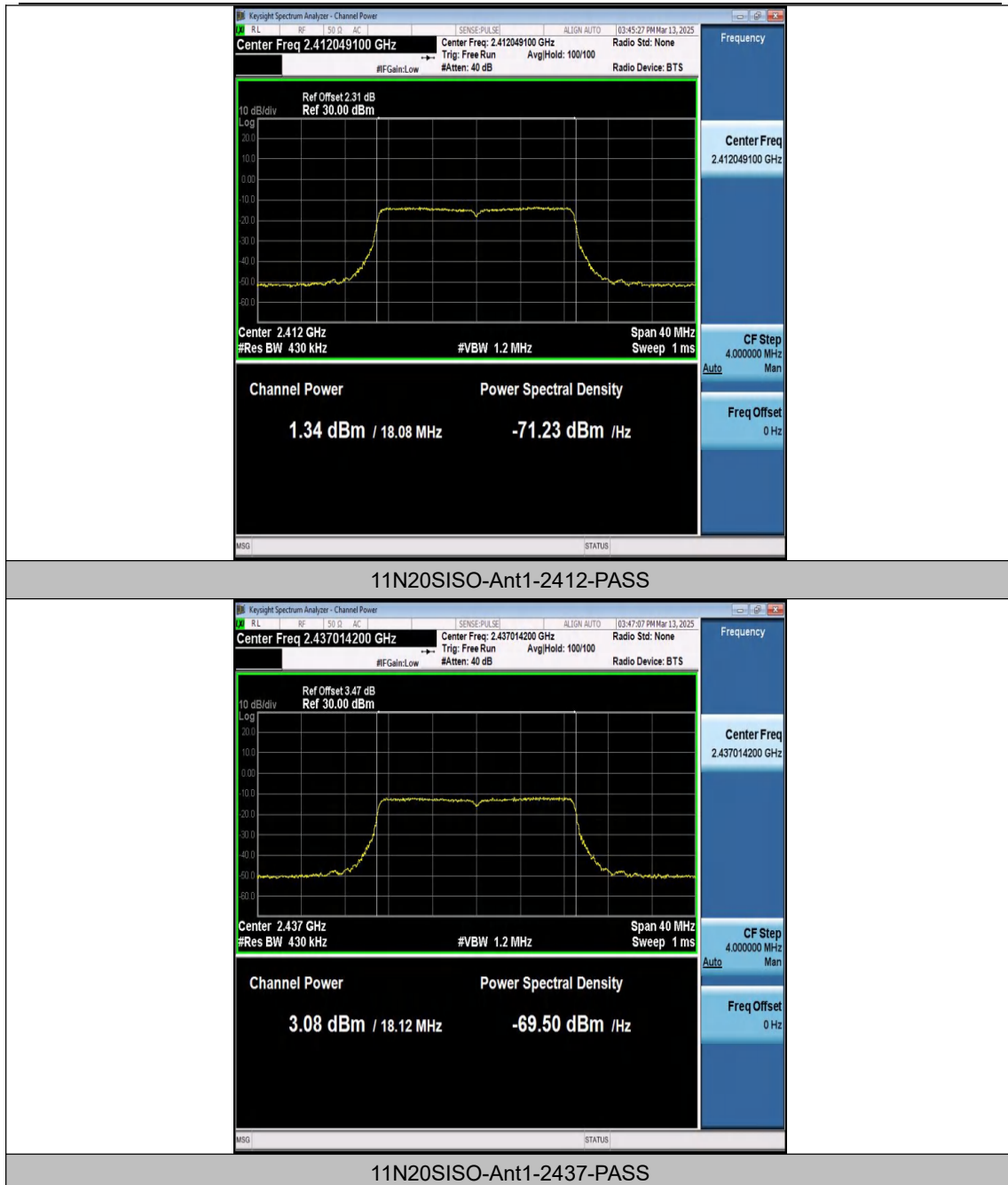


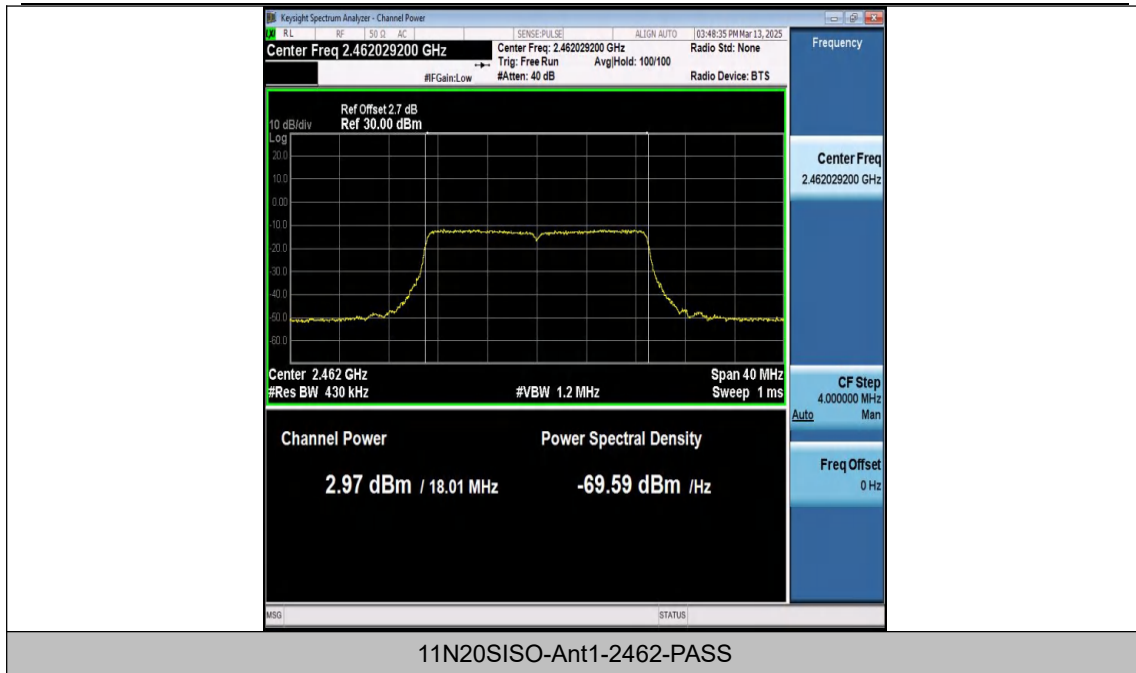
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Appendix D: Maximum power spectral density

Test Result

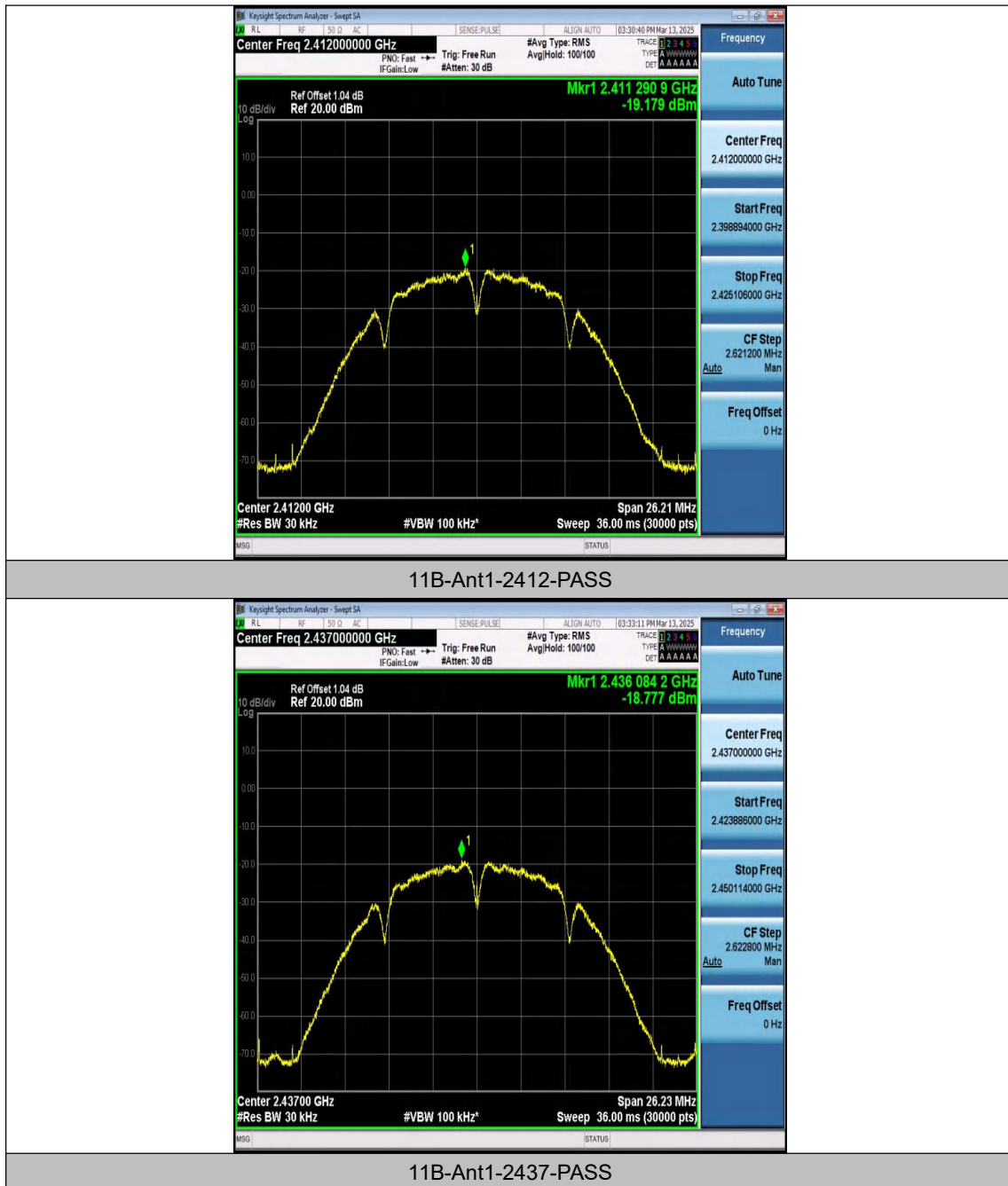
Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-19.18	-29.18	≤8.00	PASS
11B	Ant1	2437	-18.78	-28.78	≤8.00	PASS
11B	Ant1	2462	-18.50	-28.5	≤8.00	PASS
11G	Ant1	2412	-23.03	-33.03	≤8.00	PASS
11G	Ant1	2437	-21.79	-31.79	≤8.00	PASS
11G	Ant1	2462	-21.02	-31.02	≤8.00	PASS
11N20SISO	Ant1	2412	-22.93	-32.93	≤8.00	PASS
11N20SISO	Ant1	2437	-21.01	-31.01	≤8.00	PASS
11N20SISO	Ant1	2462	-21.62	-31.62	≤8.00	PASS

Note:

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



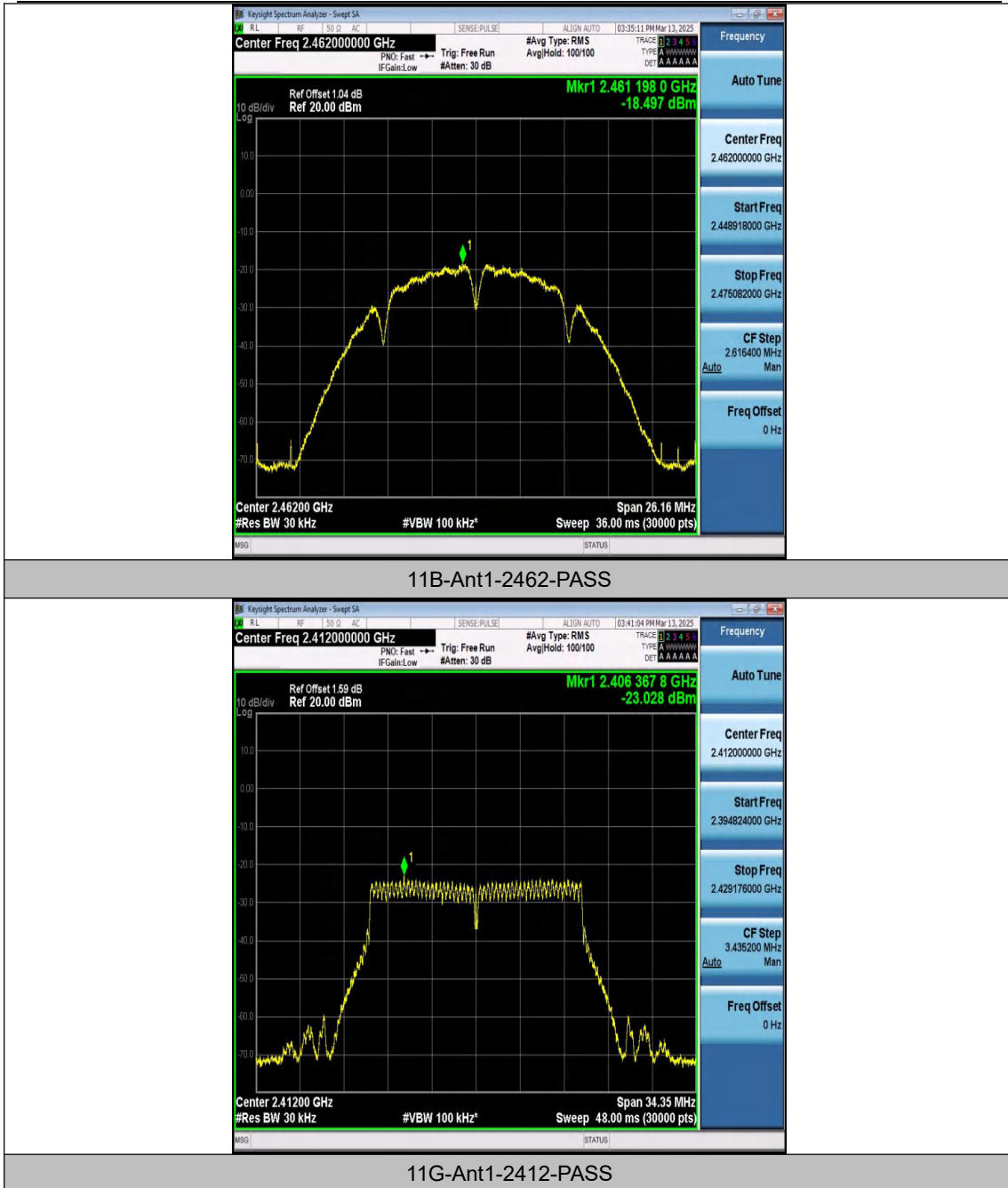
Test Graphs



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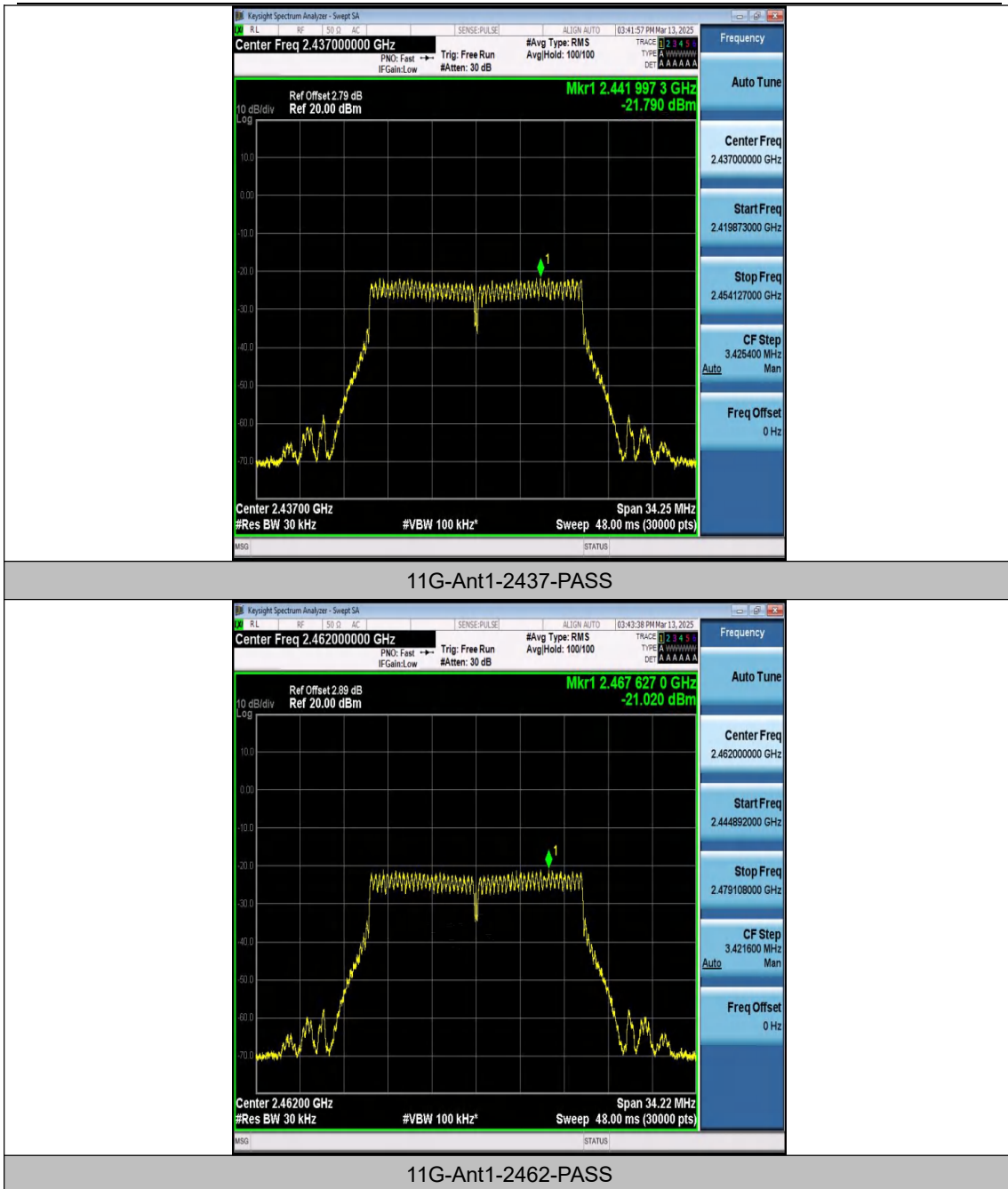
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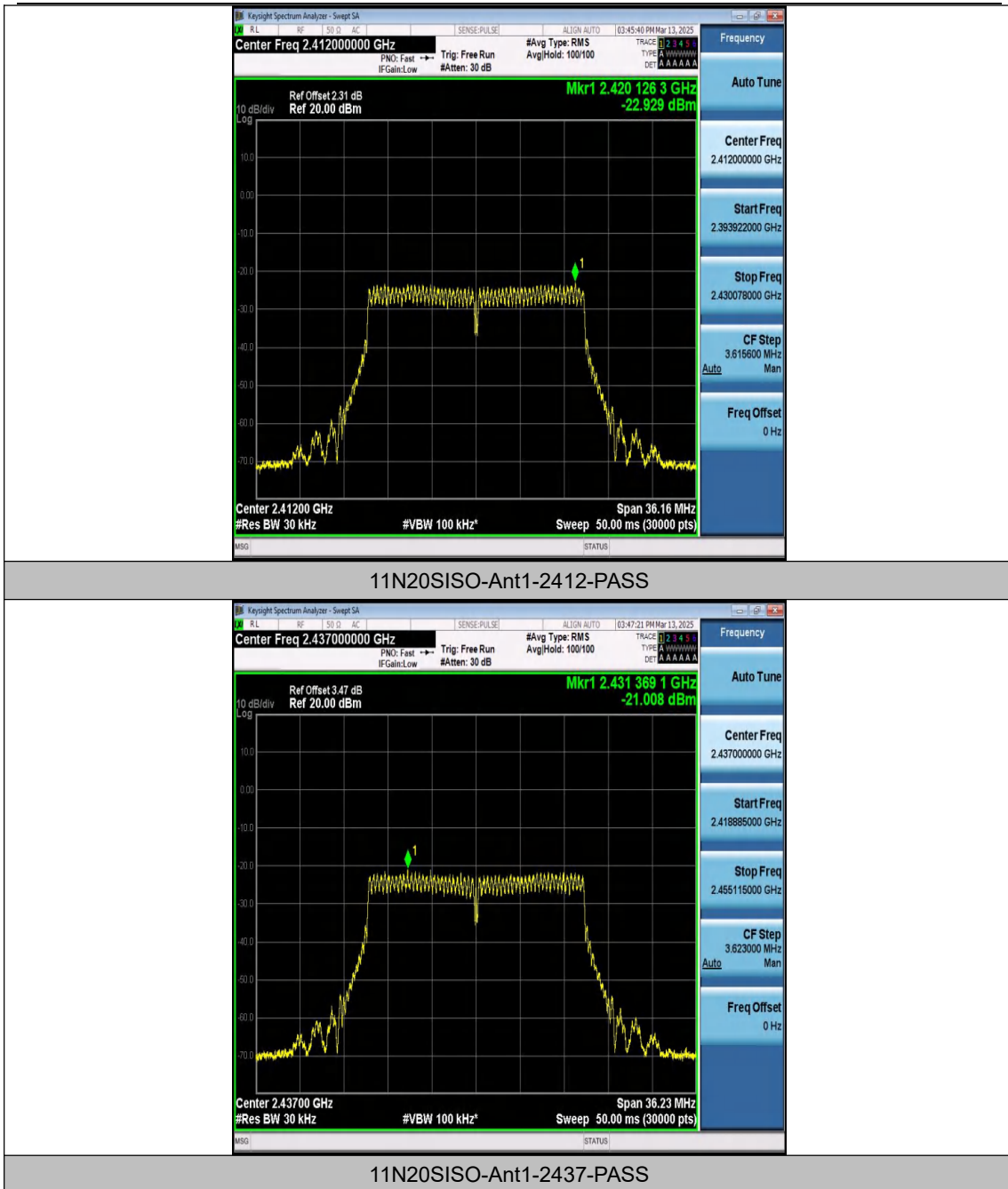


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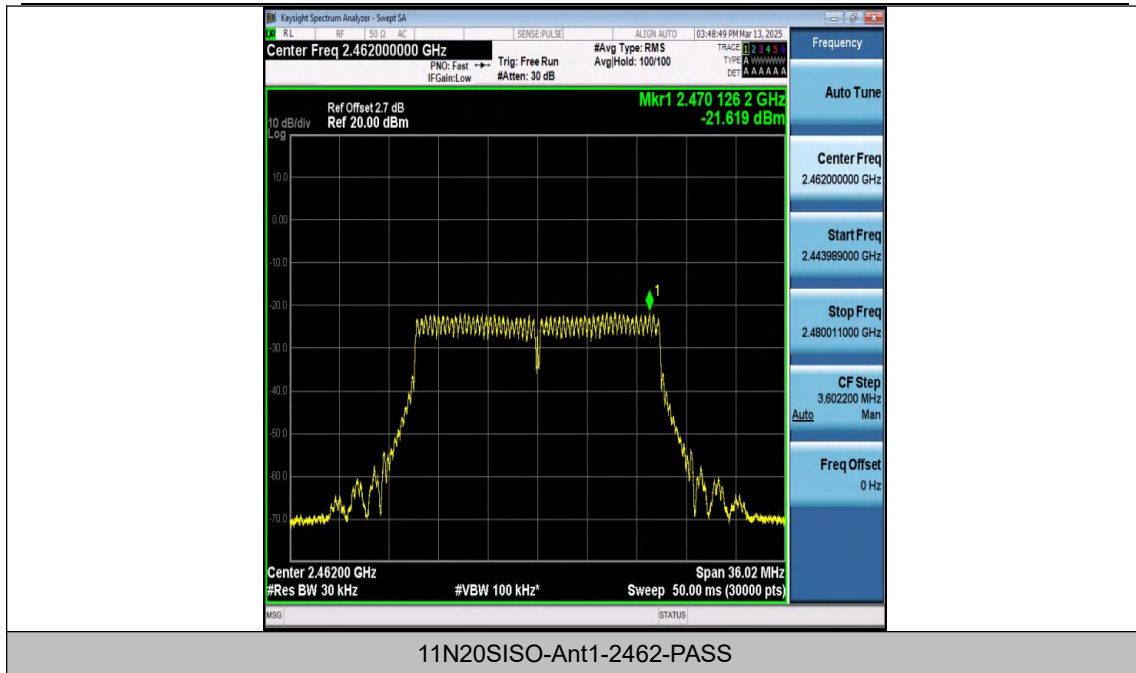


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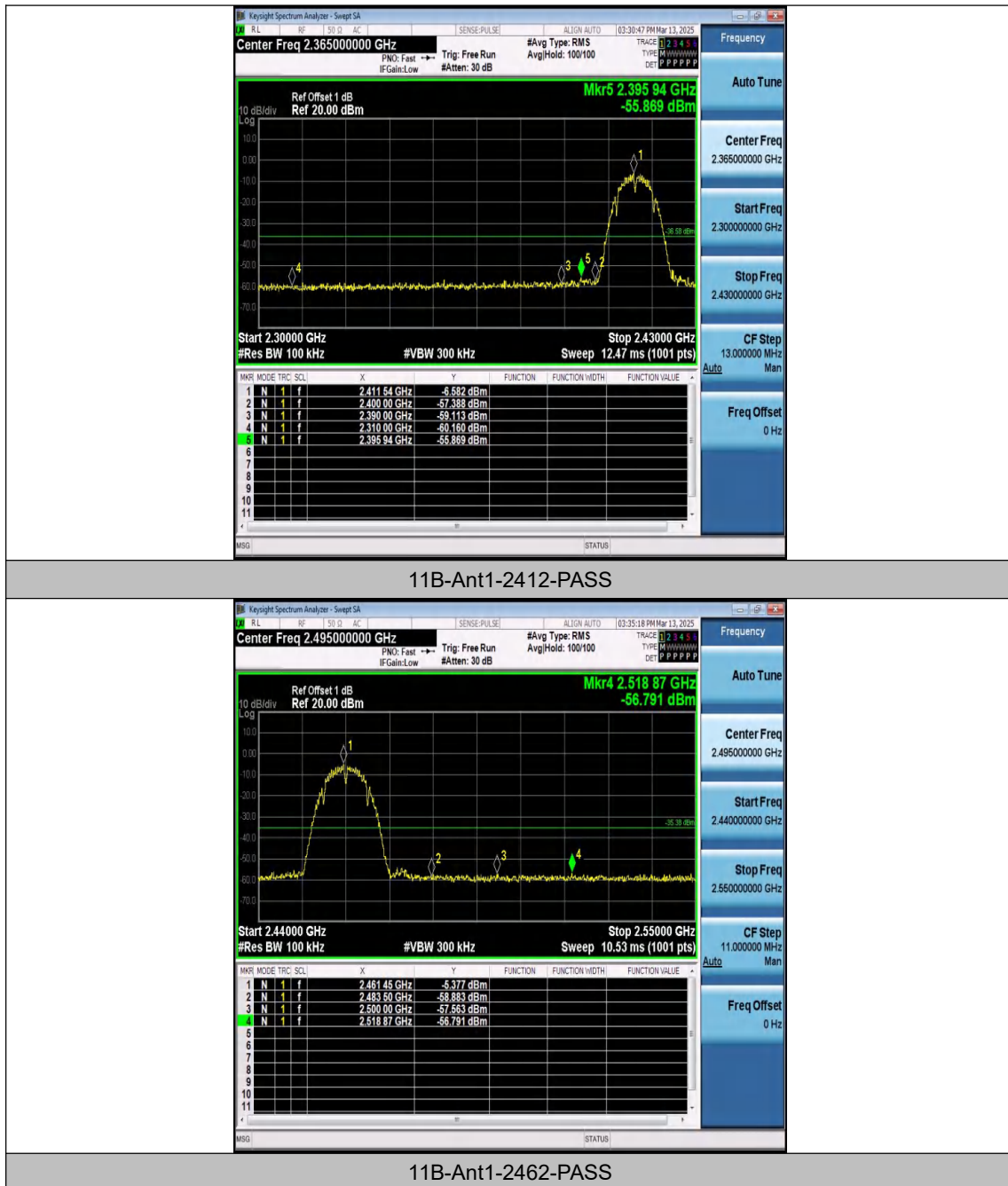
Appendix E: Conducted Band edge

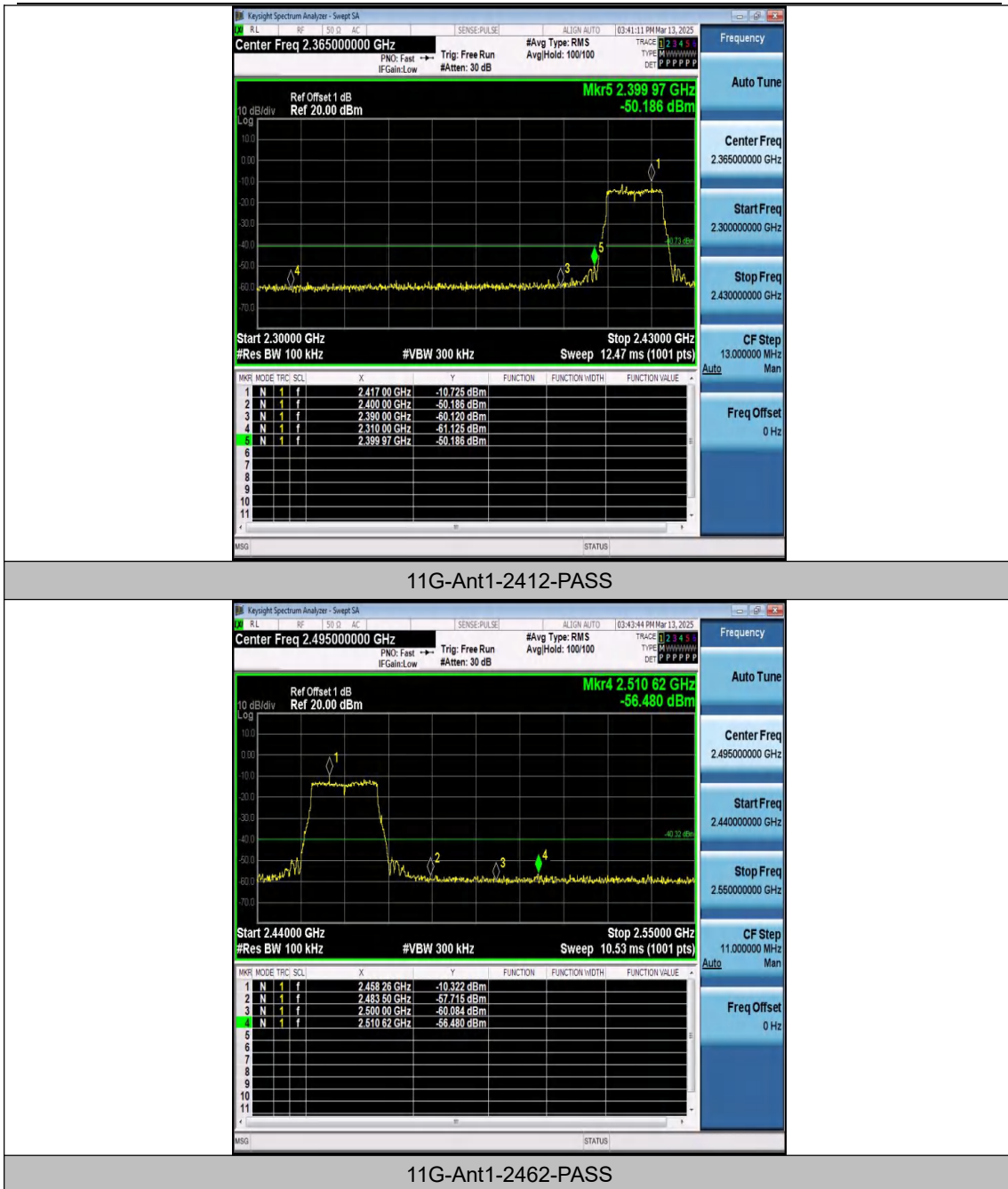
Test Result

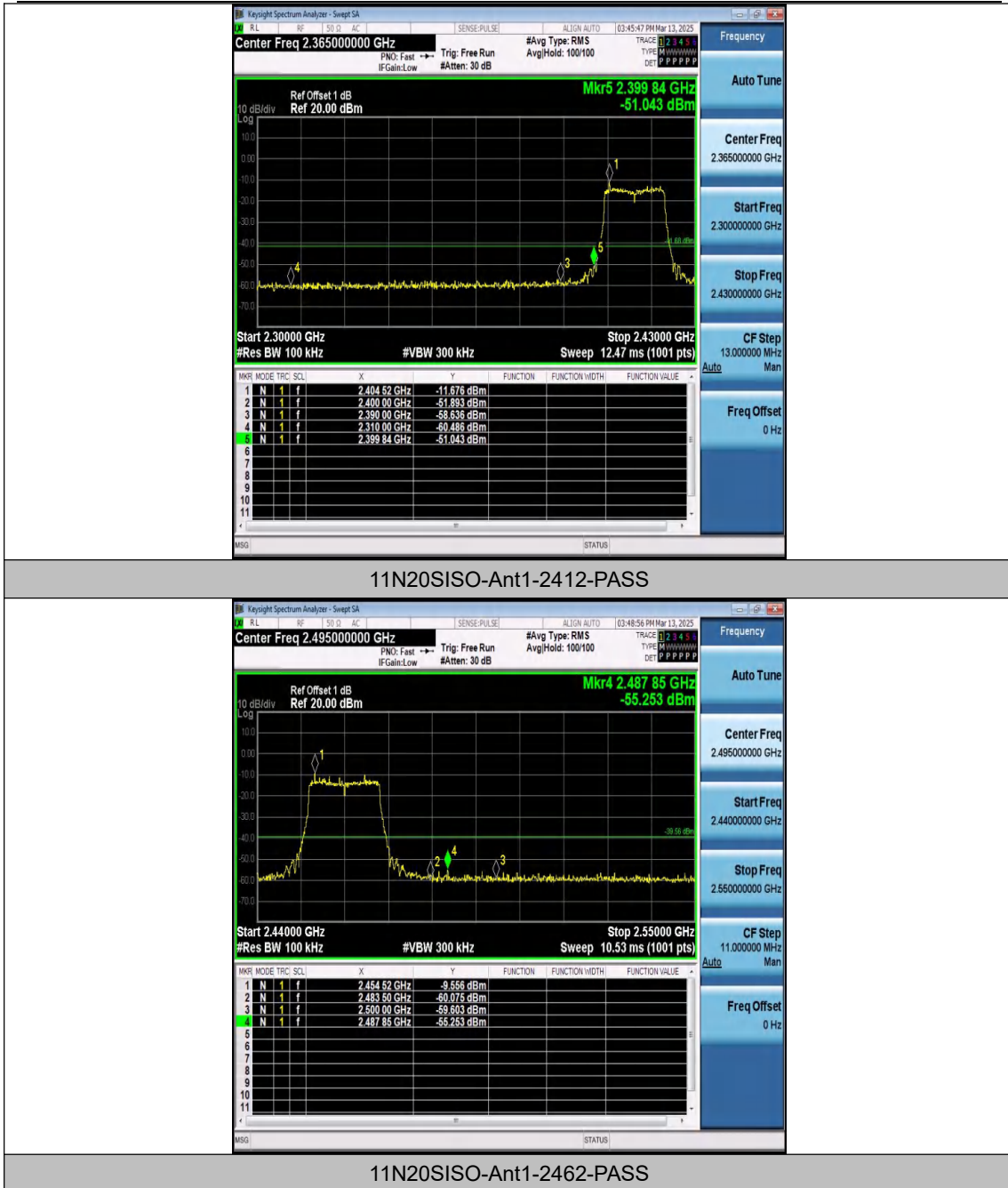
Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.58	-55.87	≤-36.58	PASS
11B	Ant1	High	2462	-5.38	-56.79	≤-35.38	PASS
11G	Ant1	Low	2412	-10.73	-50.19	≤-40.73	PASS
11G	Ant1	High	2462	-10.32	-56.48	≤-40.32	PASS
11N20SISO	Ant1	Low	2412	-11.68	-51.04	≤-41.68	PASS
11N20SISO	Ant1	High	2462	-9.56	-55.25	≤-39.56	PASS



Test Graphs







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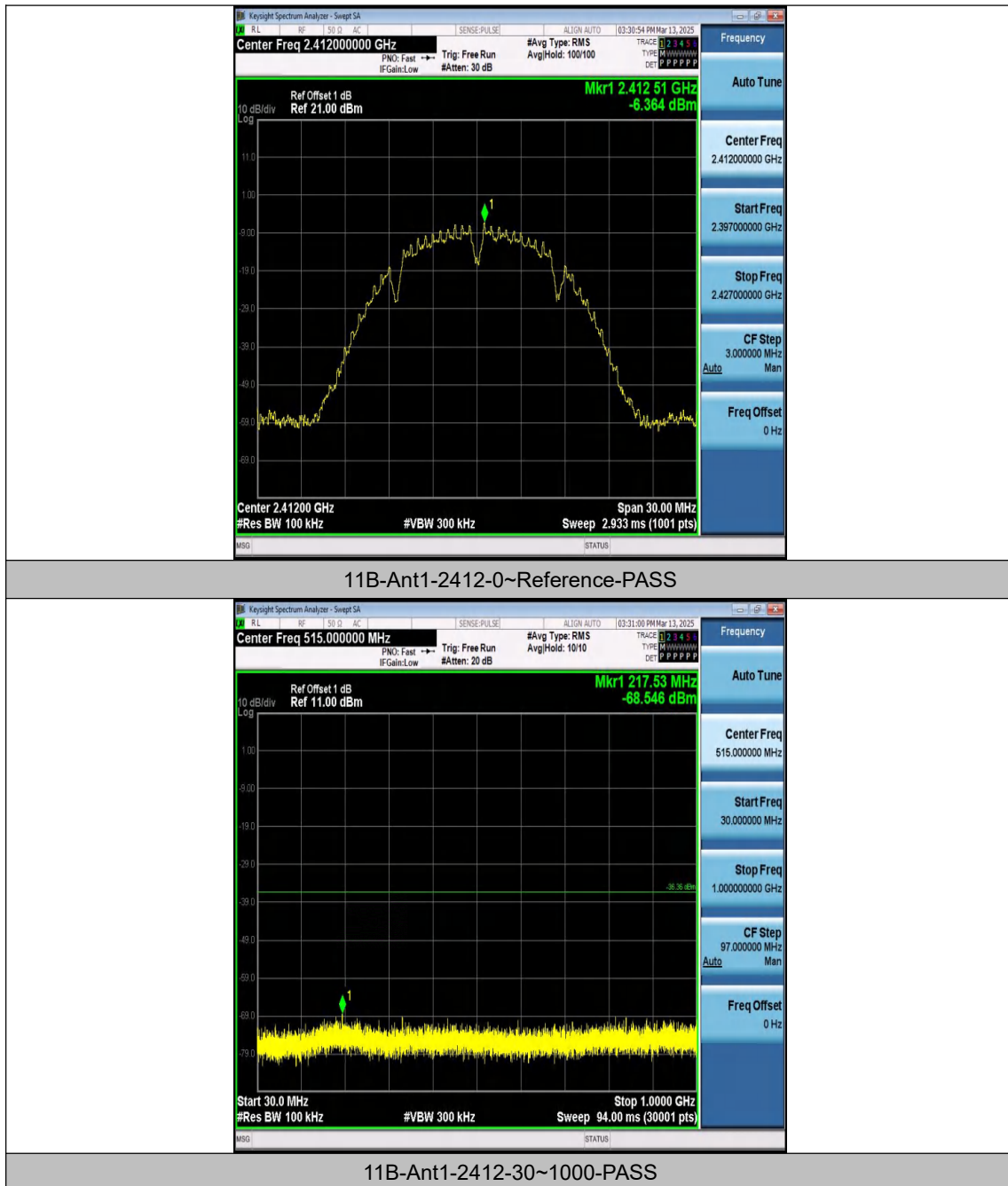
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-6.36	-6.36	---	PASS
11B	Ant1	2412	30~1000	-6.36	-68.55	≤-36.36	PASS
11B	Ant1	2412	1000~26500	-6.36	-40.38	≤-36.36	PASS
11B	Ant1	2437	0~Reference	-5.88	-5.88	---	PASS
11B	Ant1	2437	30~1000	-5.88	-68.74	≤-35.88	PASS
11B	Ant1	2437	1000~26500	-5.88	-39.85	≤-35.88	PASS
11B	Ant1	2462	0~Reference	-5.35	-5.35	---	PASS
11B	Ant1	2462	30~1000	-5.35	-69.12	≤-35.35	PASS
11B	Ant1	2462	1000~26500	-5.35	-38.67	≤-35.35	PASS
11G	Ant1	2412	0~Reference	-9.03	-9.03	---	PASS
11G	Ant1	2412	30~1000	-9.03	-67.97	≤-39.03	PASS
11G	Ant1	2412	1000~26500	-9.03	-50.97	≤-39.03	PASS
11G	Ant1	2437	0~Reference	-10.26	-10.26	---	PASS
11G	Ant1	2437	30~1000	-10.26	-67.64	≤-40.26	PASS
11G	Ant1	2437	1000~26500	-10.26	-52.57	≤-40.26	PASS
11G	Ant1	2462	0~Reference	-10.43	-10.43	---	PASS
11G	Ant1	2462	30~1000	-10.43	-68.3	≤-40.43	PASS
11G	Ant1	2462	1000~26500	-10.43	-51.31	≤-40.43	PASS
11N20SISO	Ant1	2412	0~Reference	-11.04	-11.04	---	PASS
11N20SISO	Ant1	2412	30~1000	-11.04	-68.71	≤-41.04	PASS
11N20SISO	Ant1	2412	1000~26500	-11.04	-52.76	≤-41.04	PASS
11N20SISO	Ant1	2437	0~Reference	-10.48	-10.48	---	PASS
11N20SISO	Ant1	2437	30~1000	-10.48	-68.36	≤-40.48	PASS
11N20SISO	Ant1	2437	1000~26500	-10.48	-53.07	≤-40.48	PASS
11N20SISO	Ant1	2462	0~Reference	-11.07	-11.07	---	PASS
11N20SISO	Ant1	2462	30~1000	-11.07	-69.18	≤-41.07	PASS
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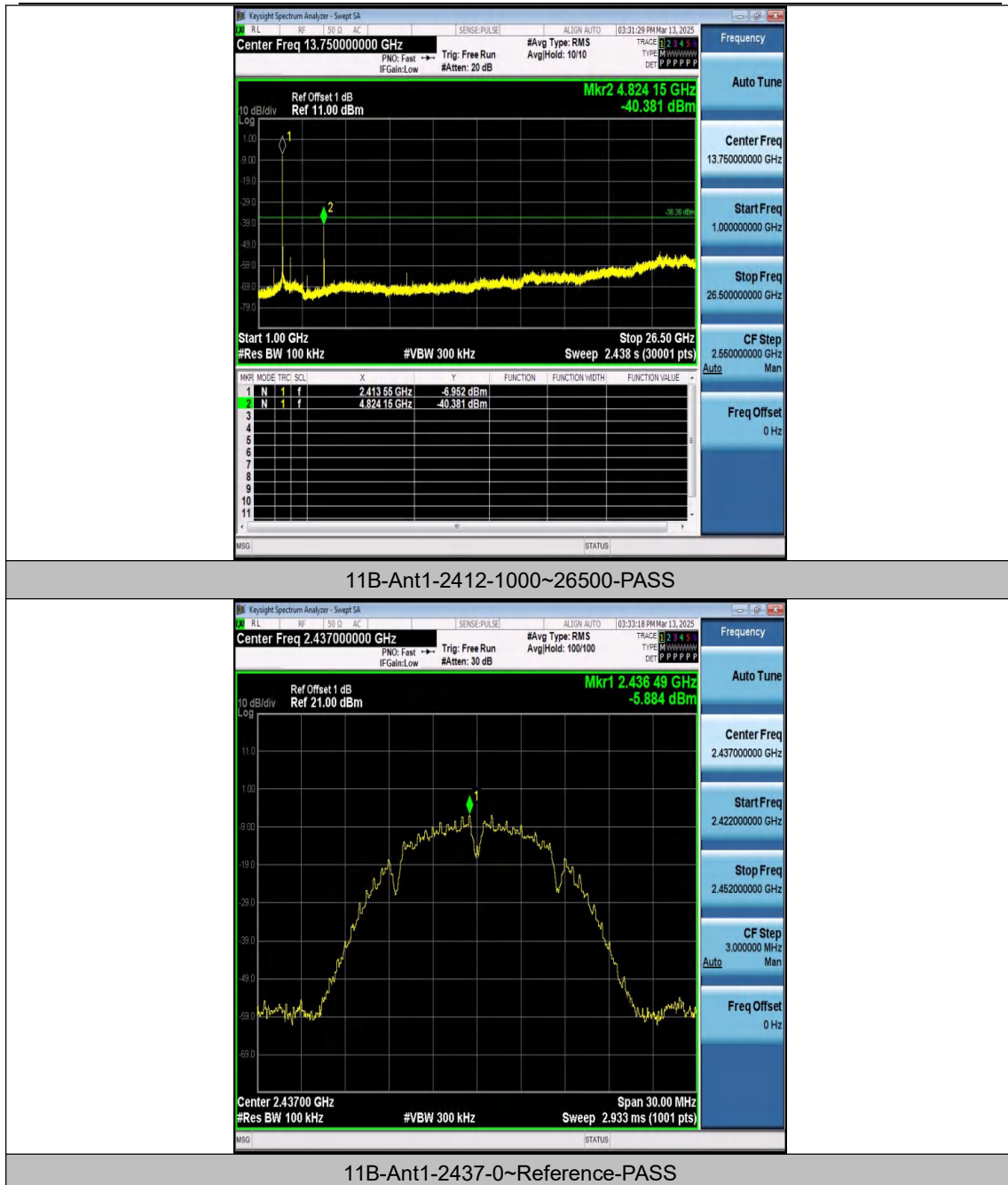
Test Graphs

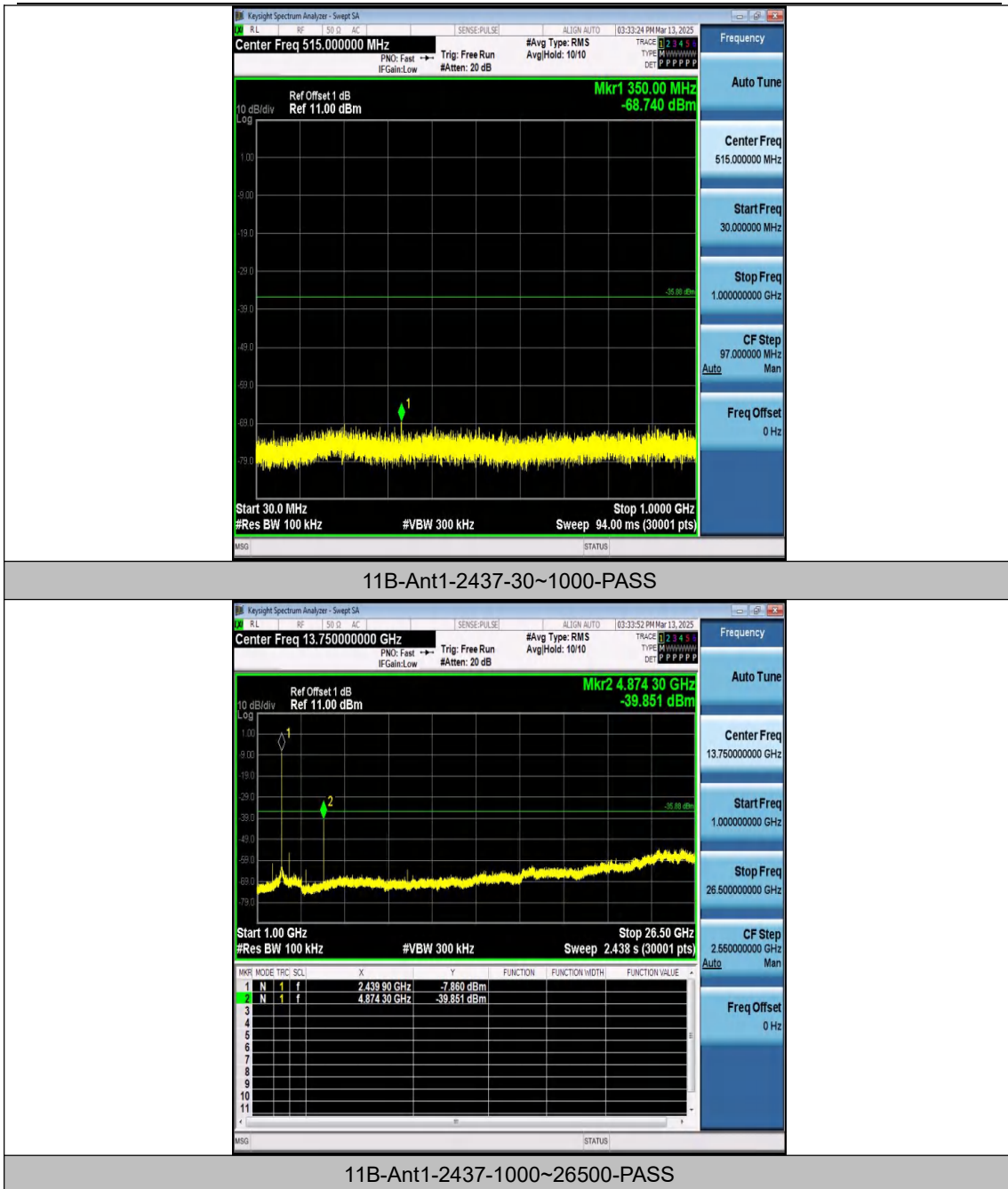


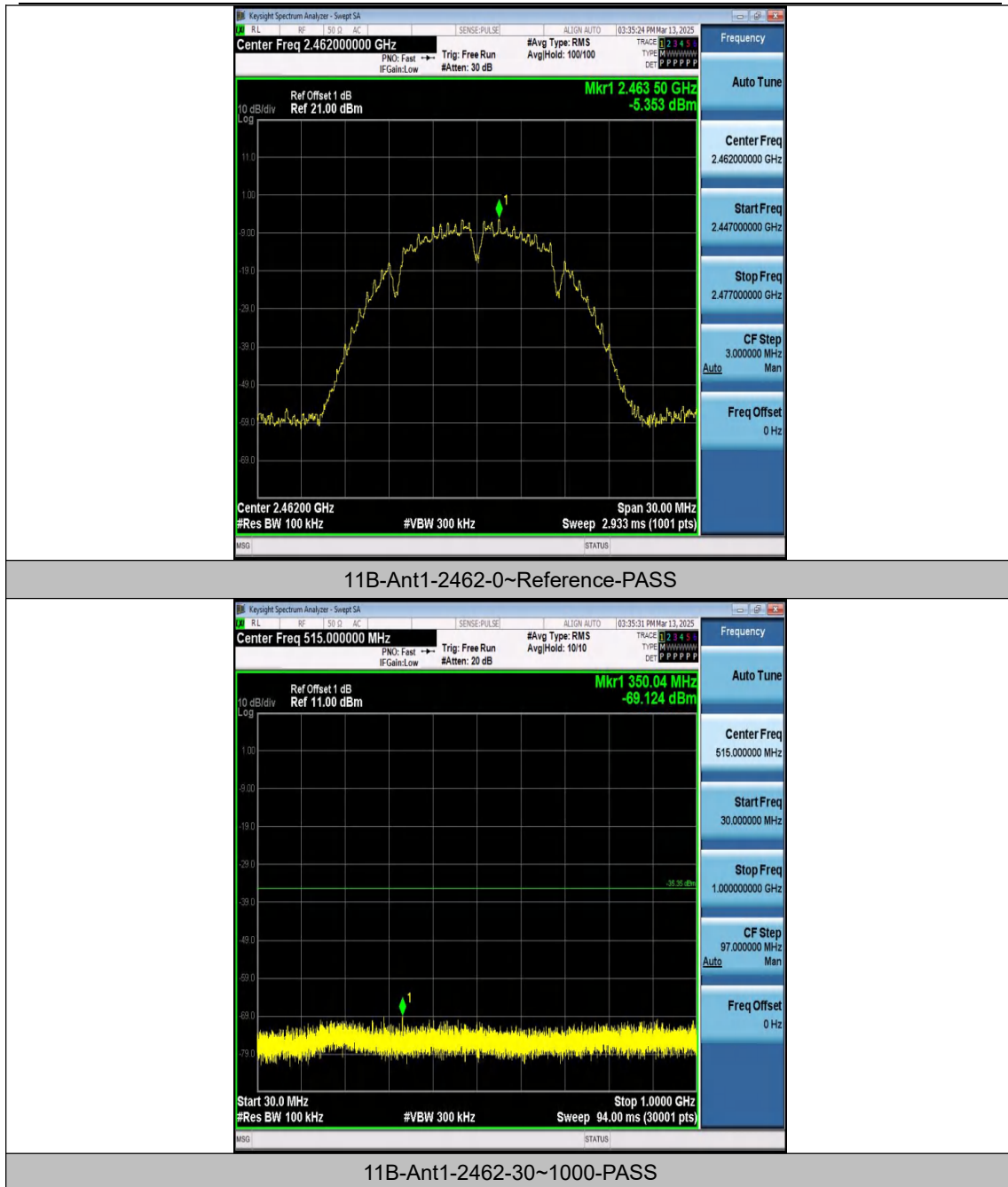
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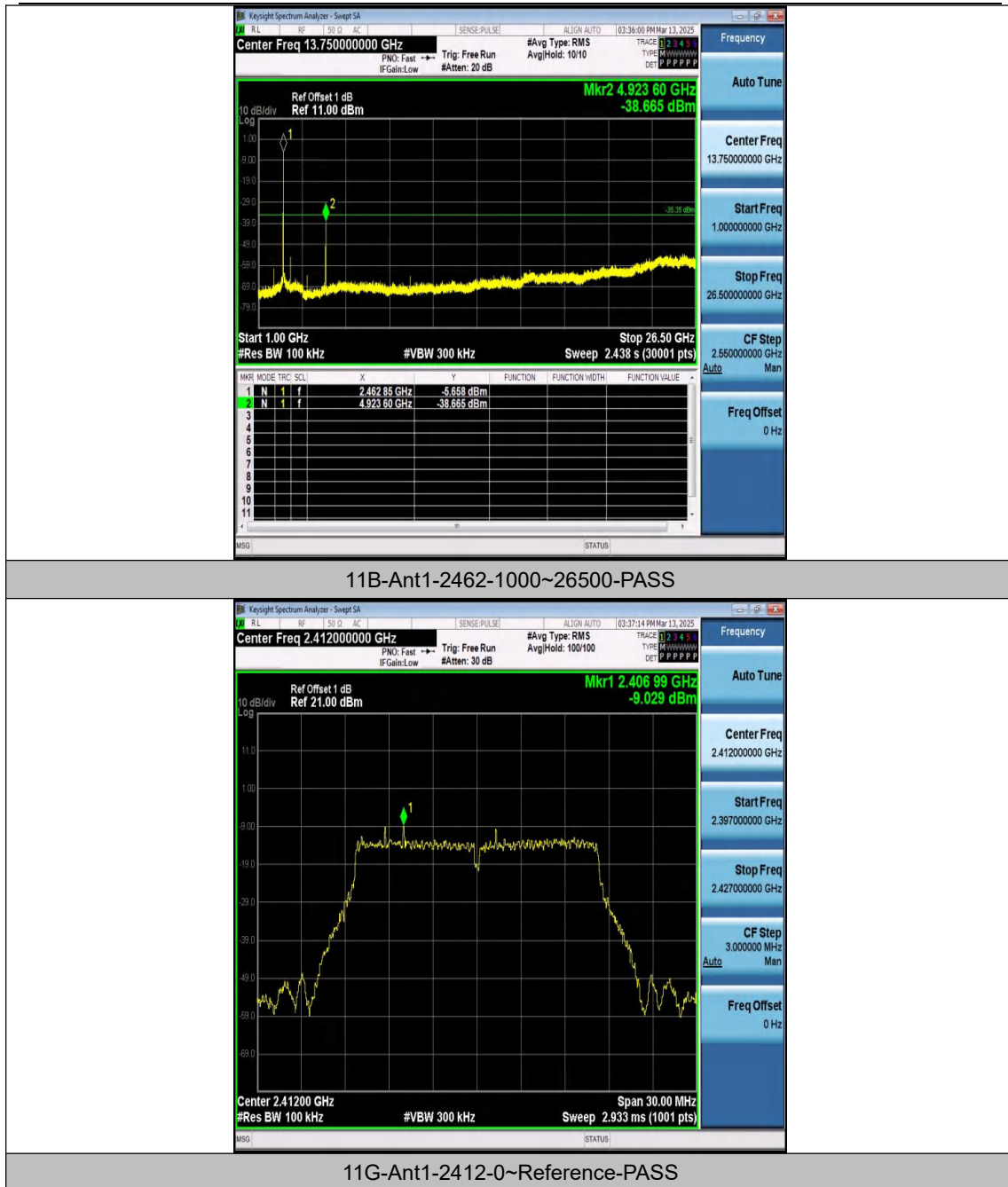




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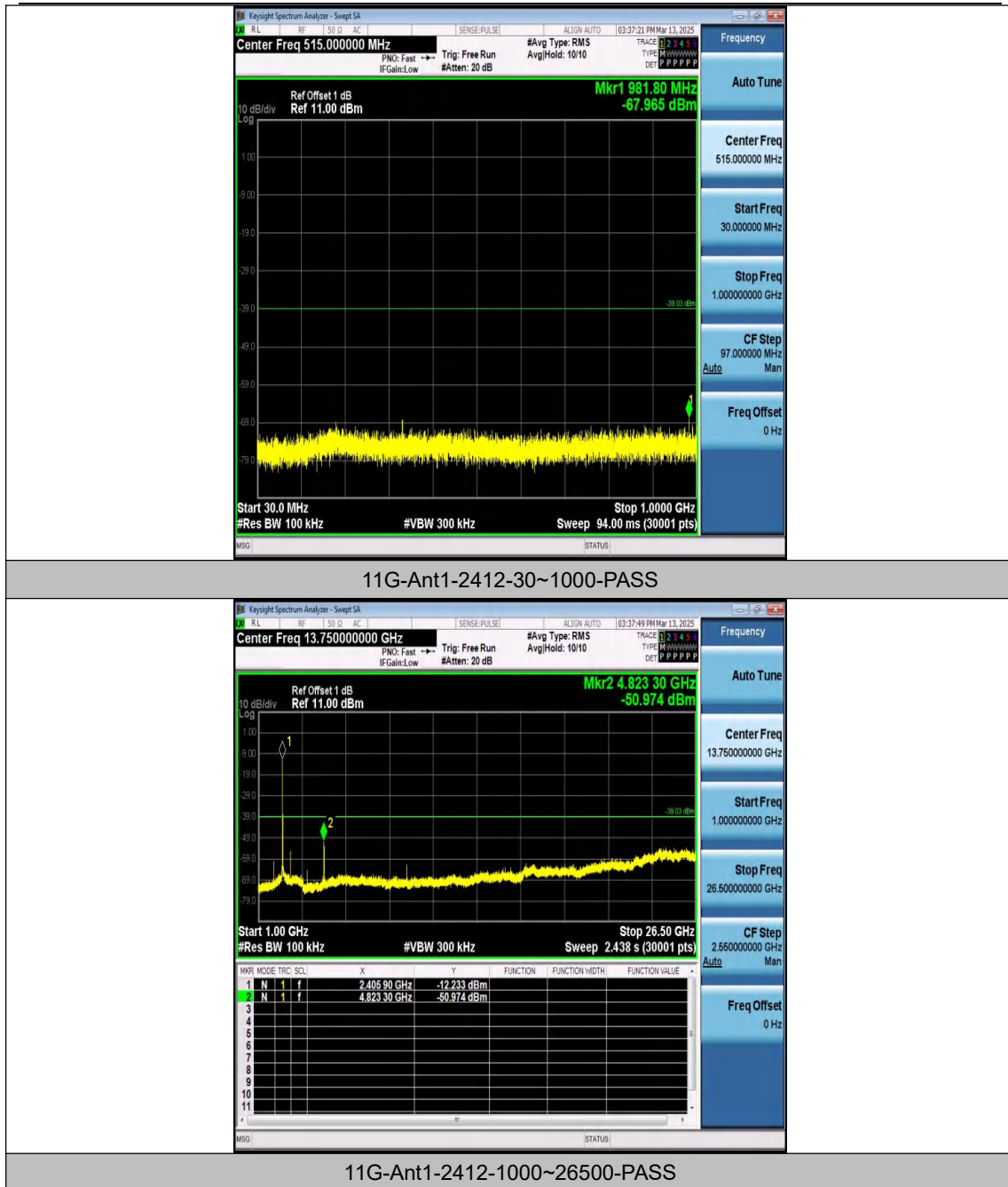
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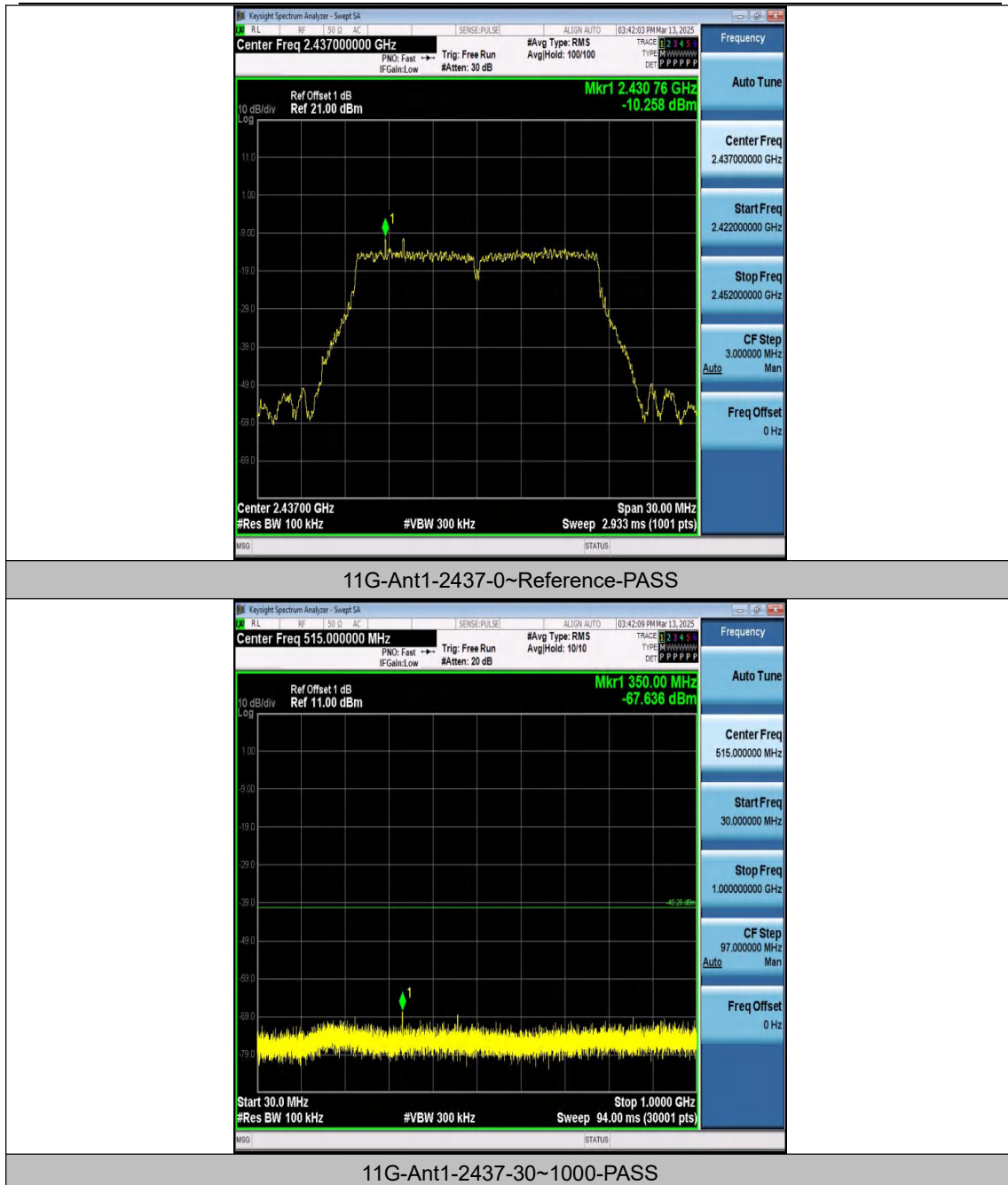


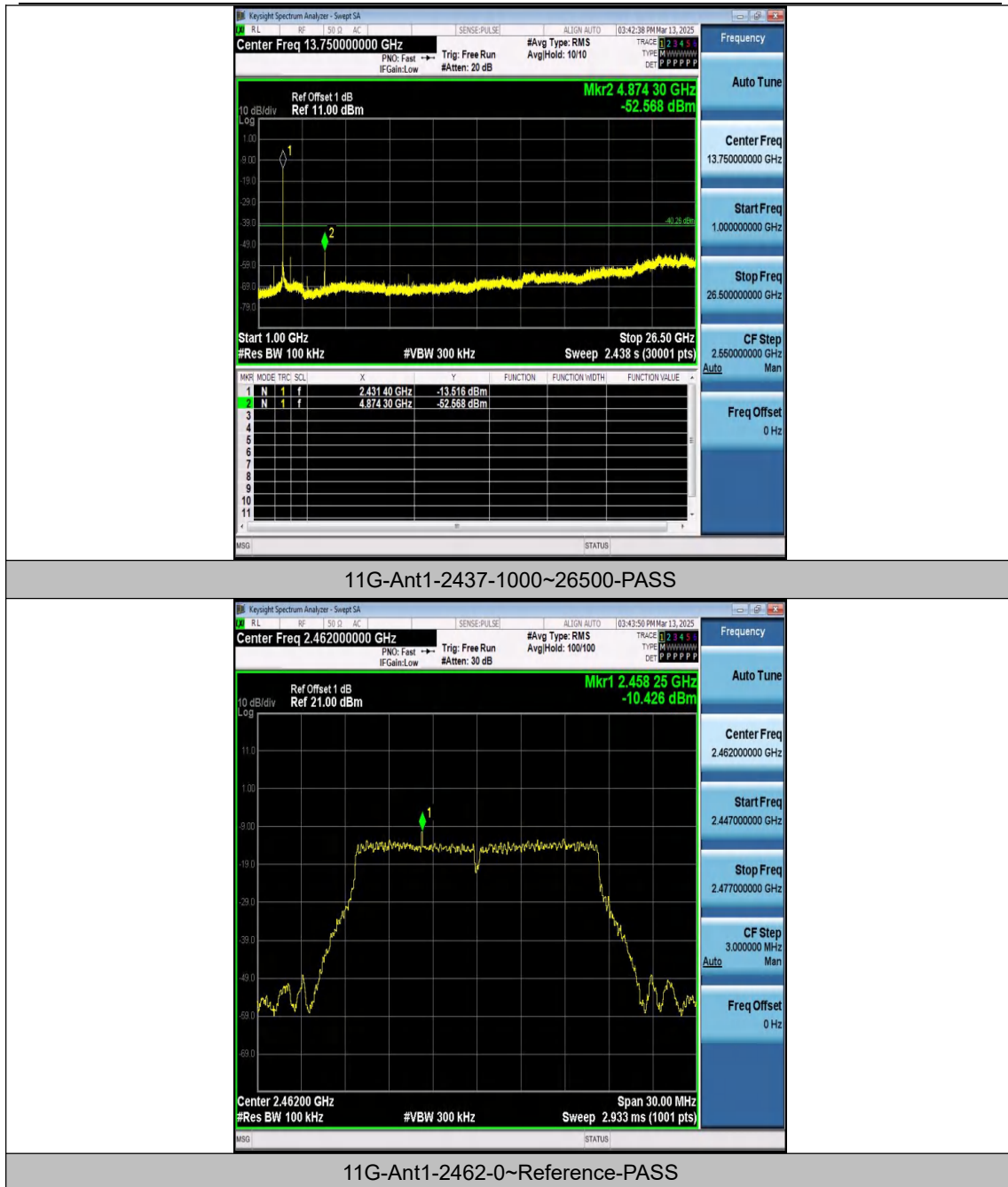
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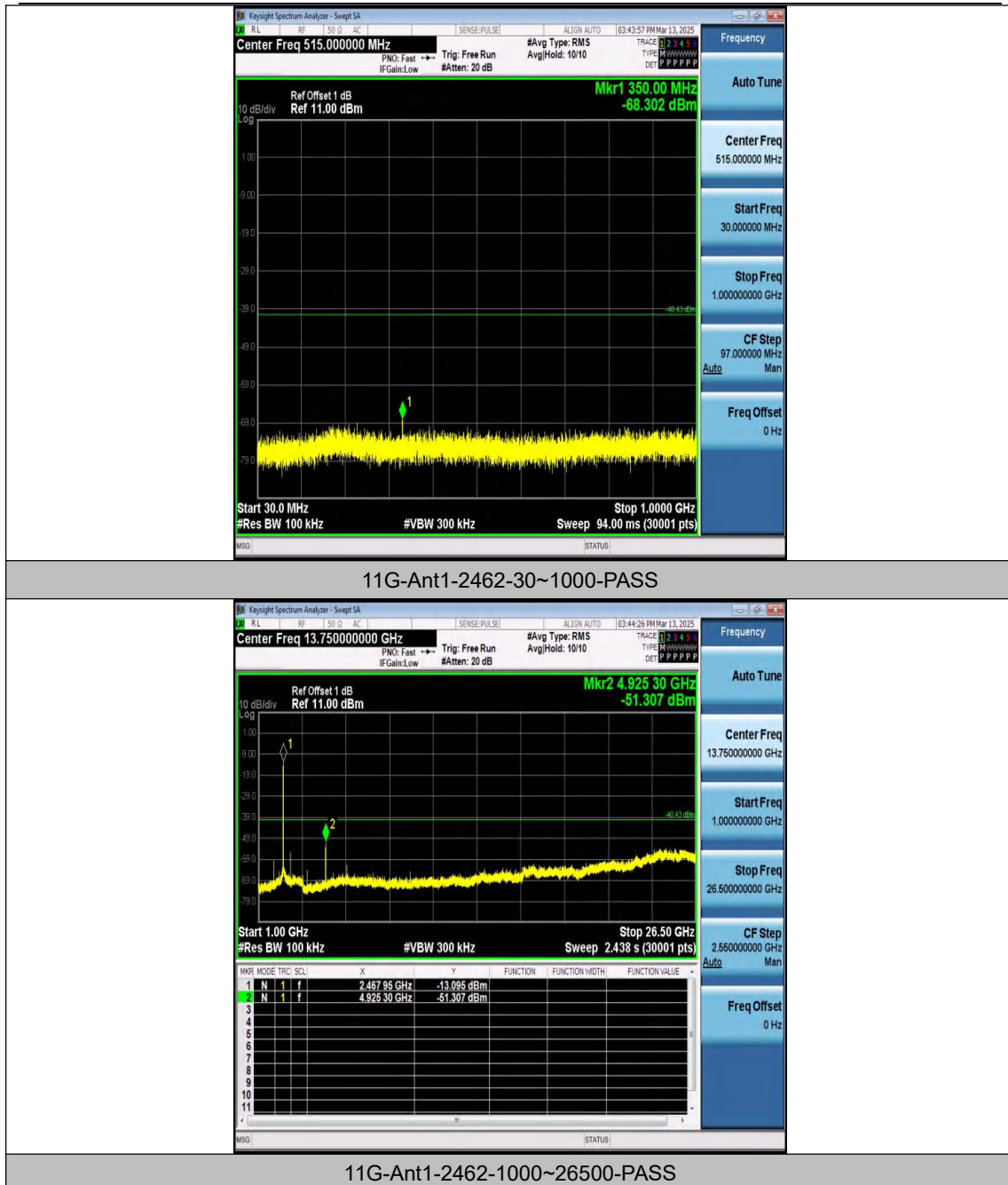


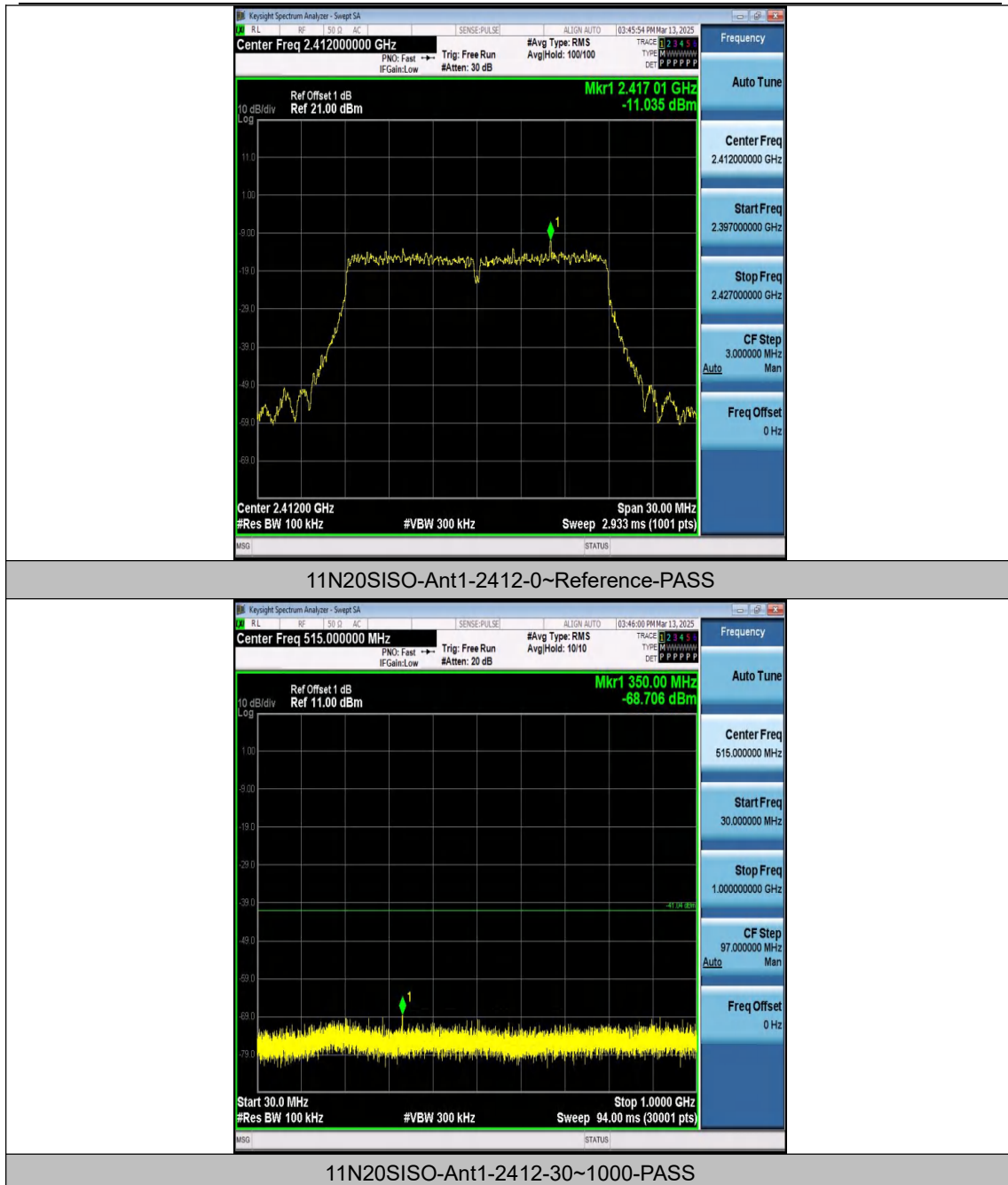


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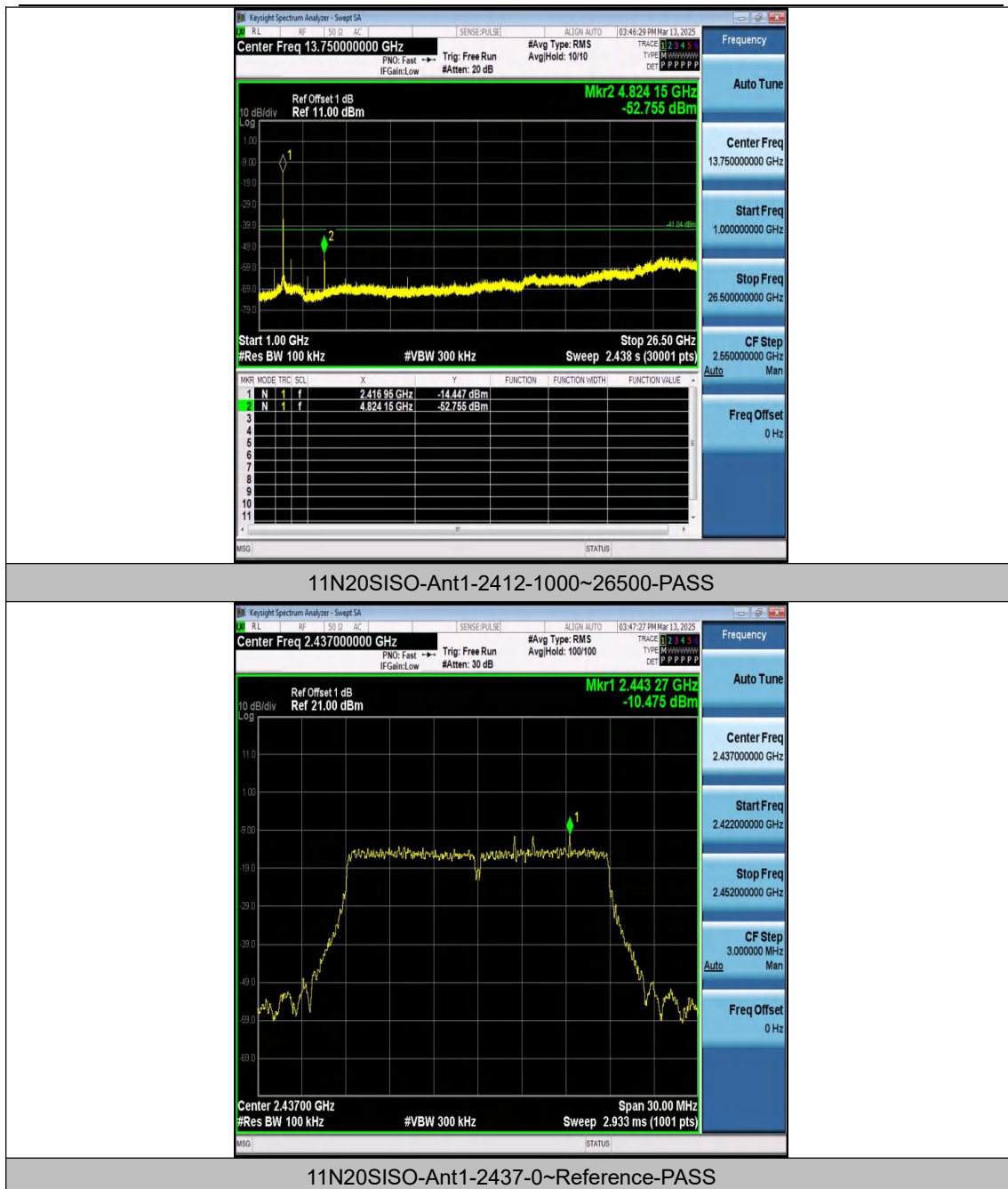


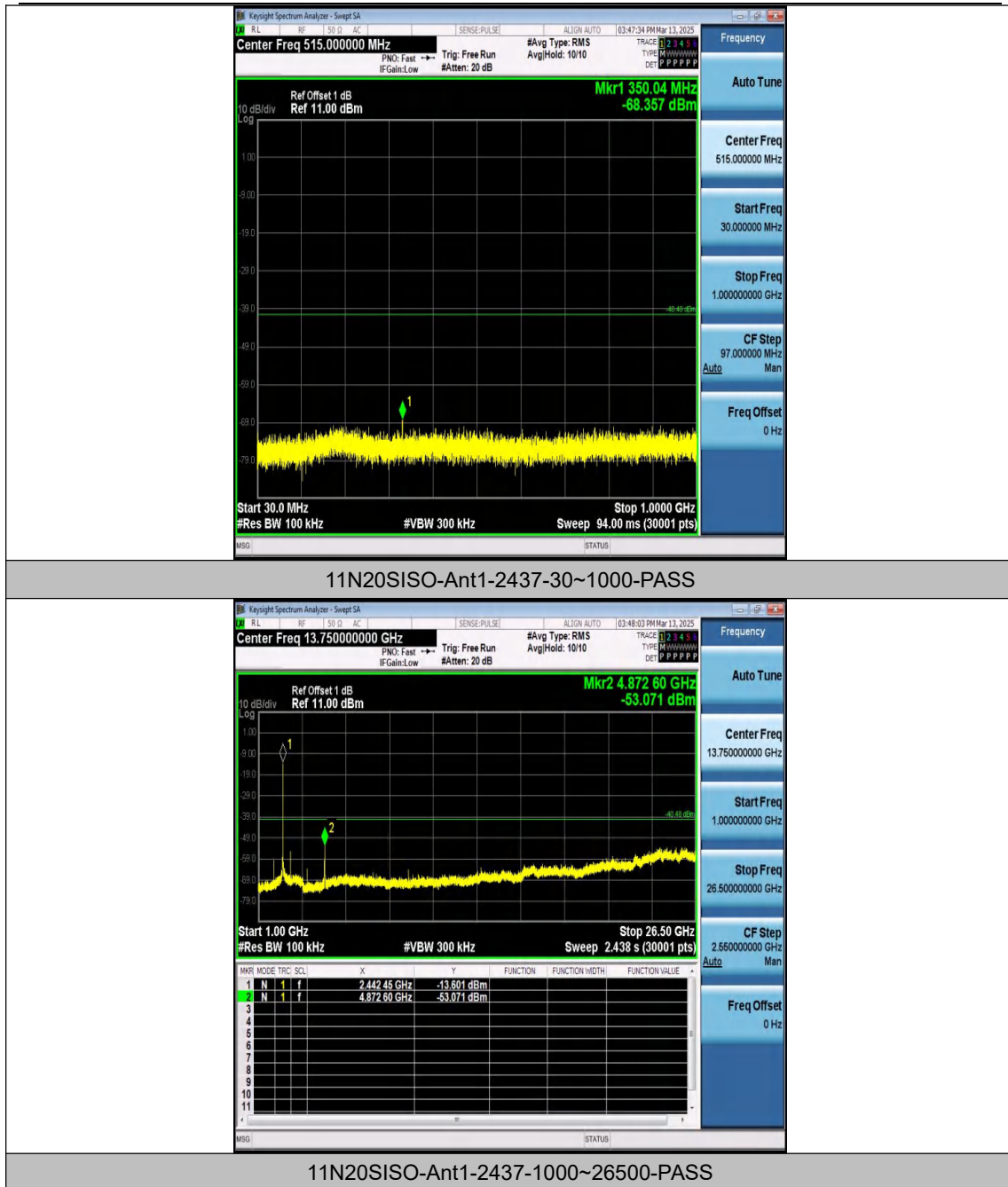


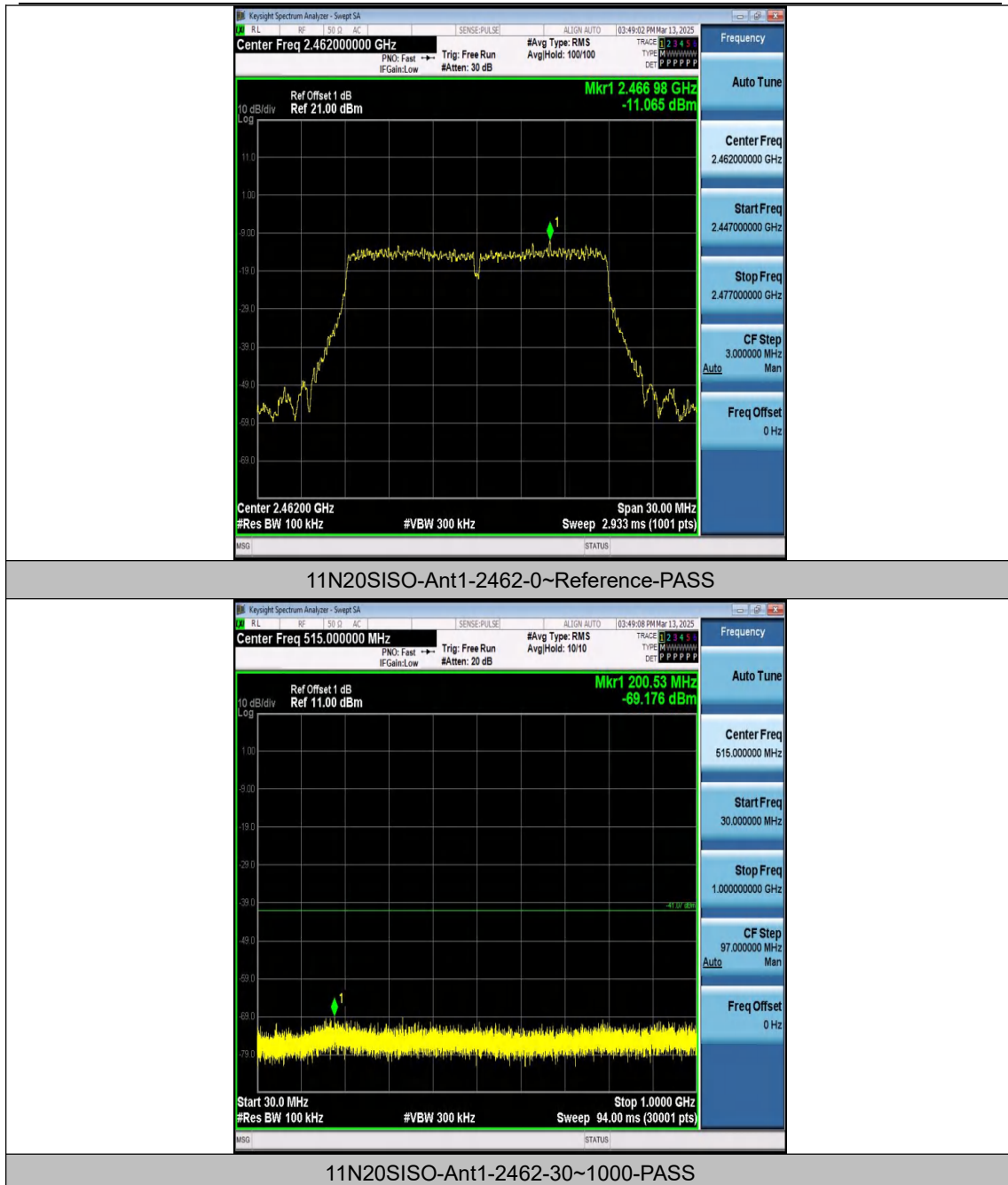
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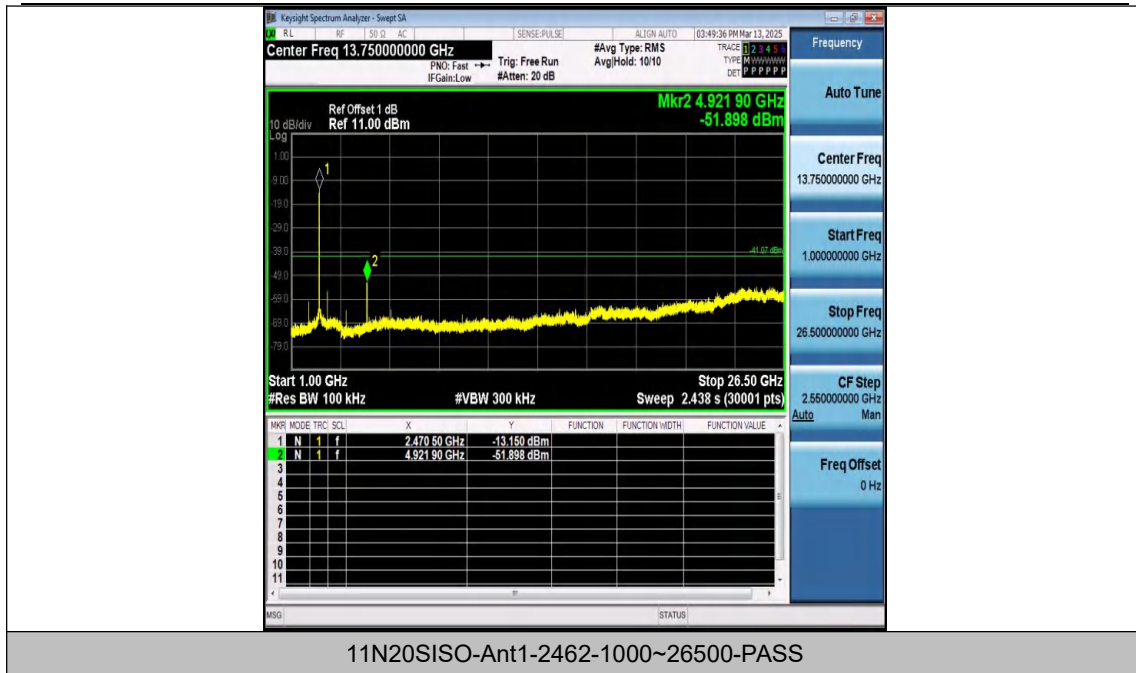




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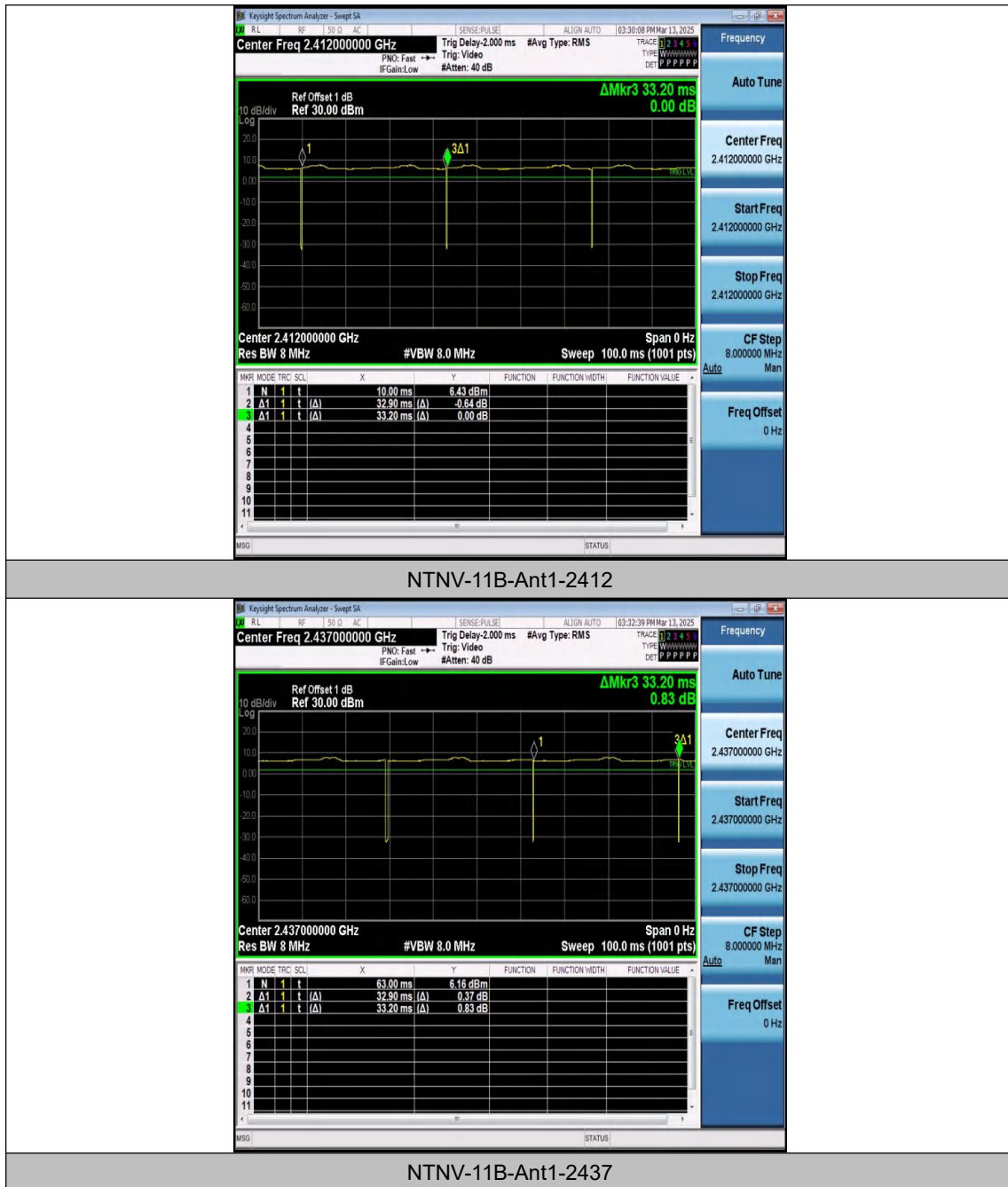
Appendix G: Duty Cycle

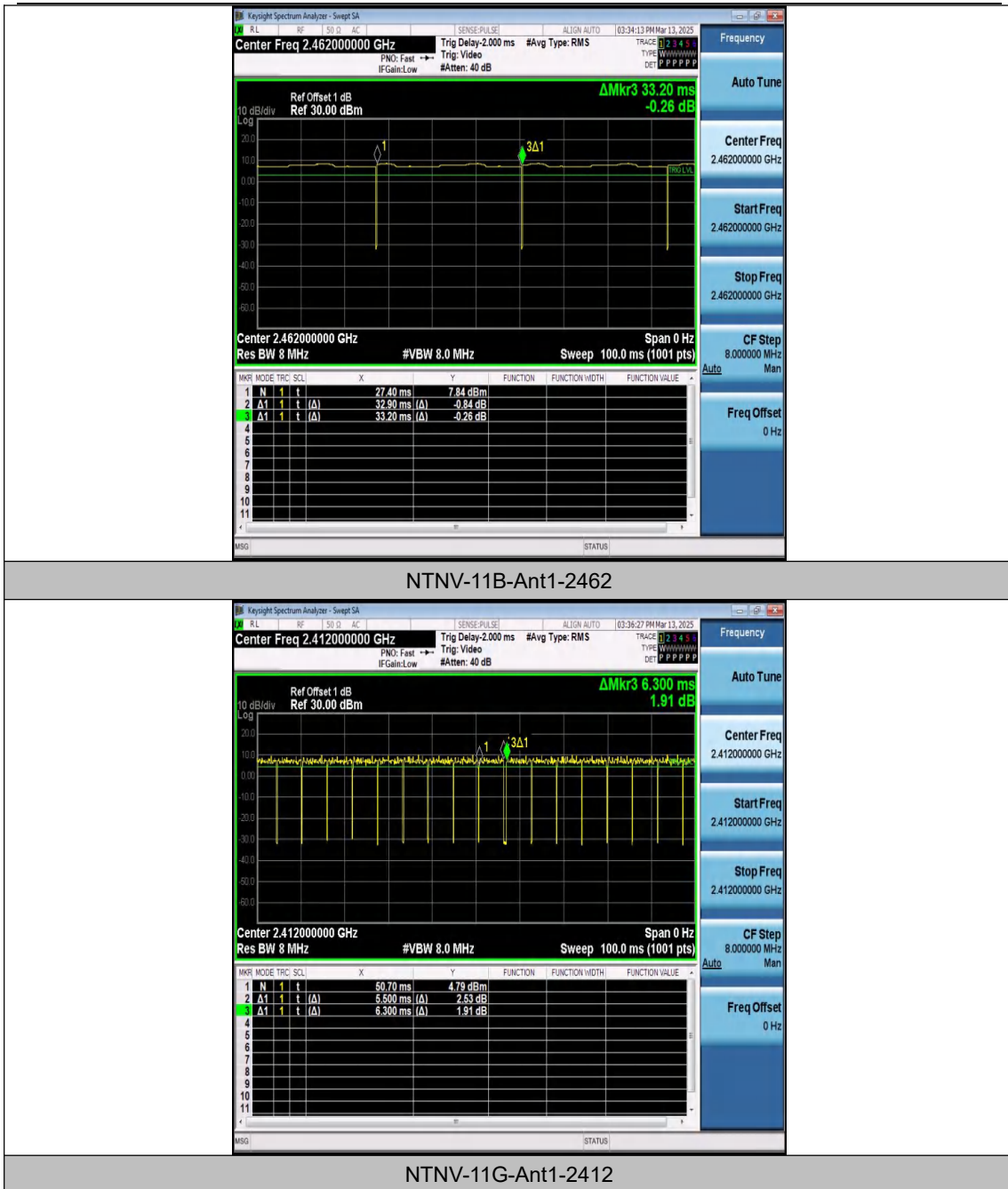
Test Result

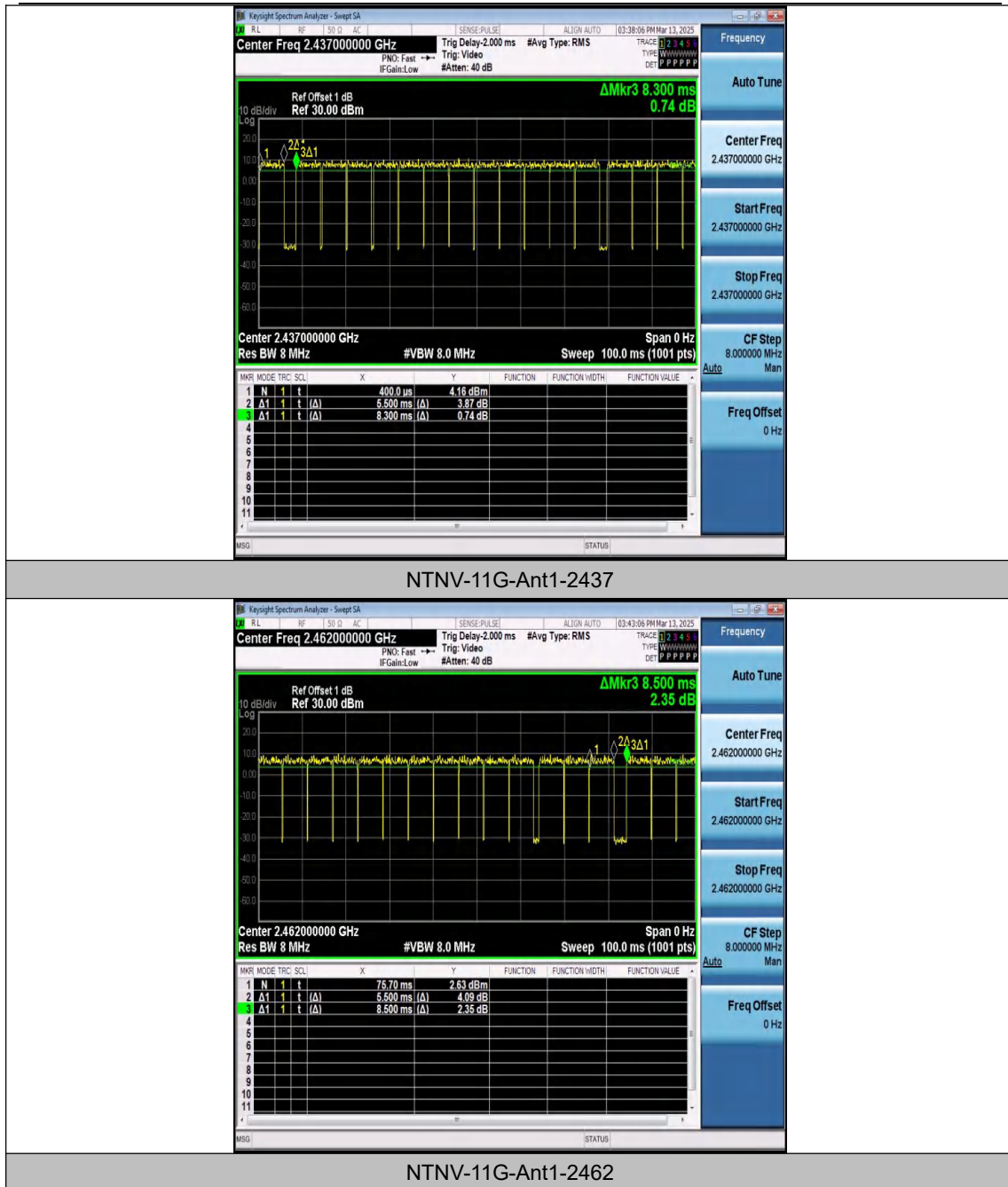
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	32.90	33.20	99.10	0.04
11B	Ant1	2437	32.90	33.20	99.10	0.04
11B	Ant1	2462	32.90	33.20	99.10	0.04
11G	Ant1	2412	5.50	6.30	87.30	0.59
11G	Ant1	2437	5.50	8.30	66.27	1.79
11G	Ant1	2462	5.50	8.50	64.71	1.89
11N20SISO	Ant1	2412	5.10	6.90	73.91	1.31
11N20SISO	Ant1	2437	5.10	9.00	56.67	2.47
11N20SISO	Ant1	2462	5.00	7.40	67.57	1.70

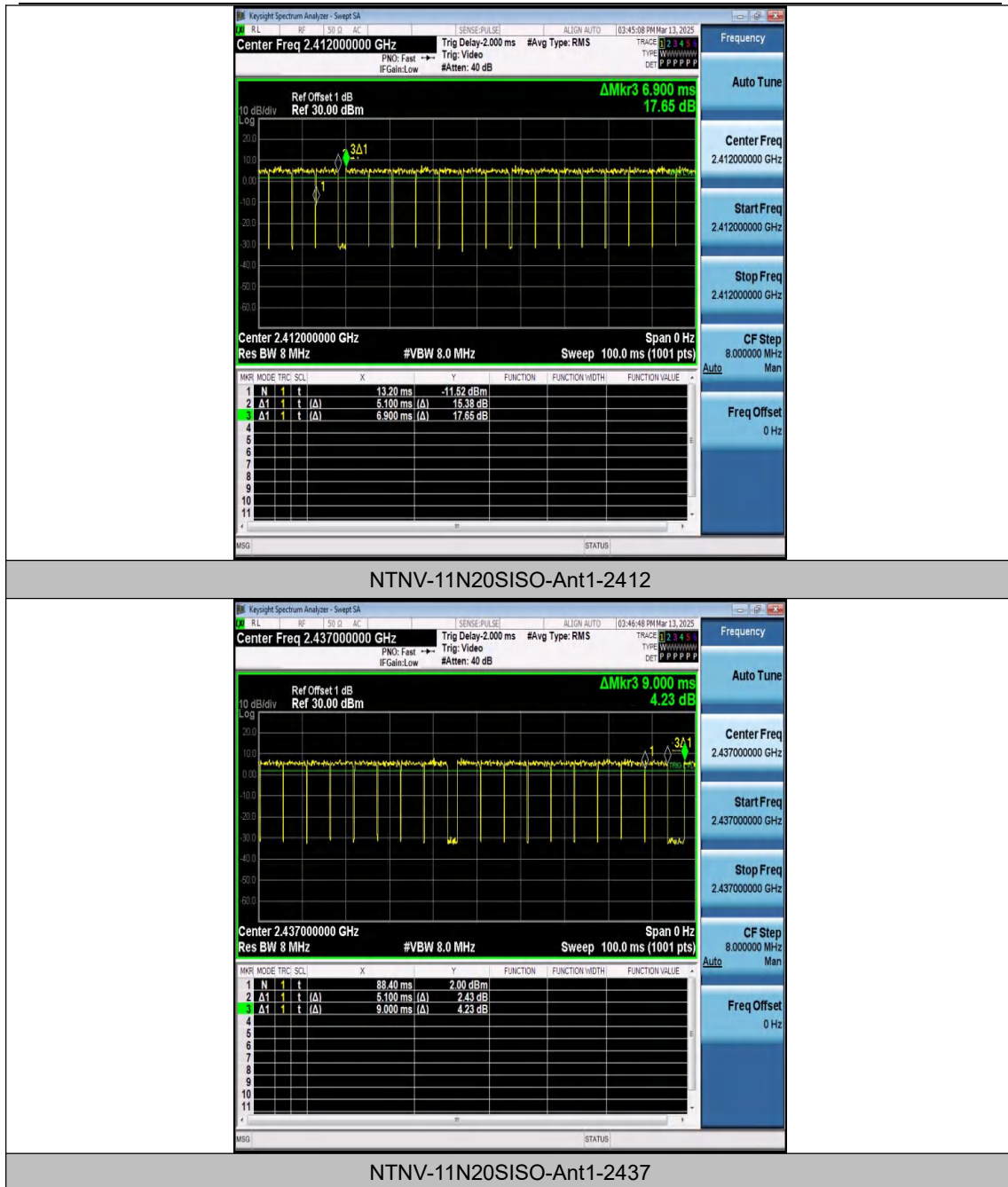


Test Graphs







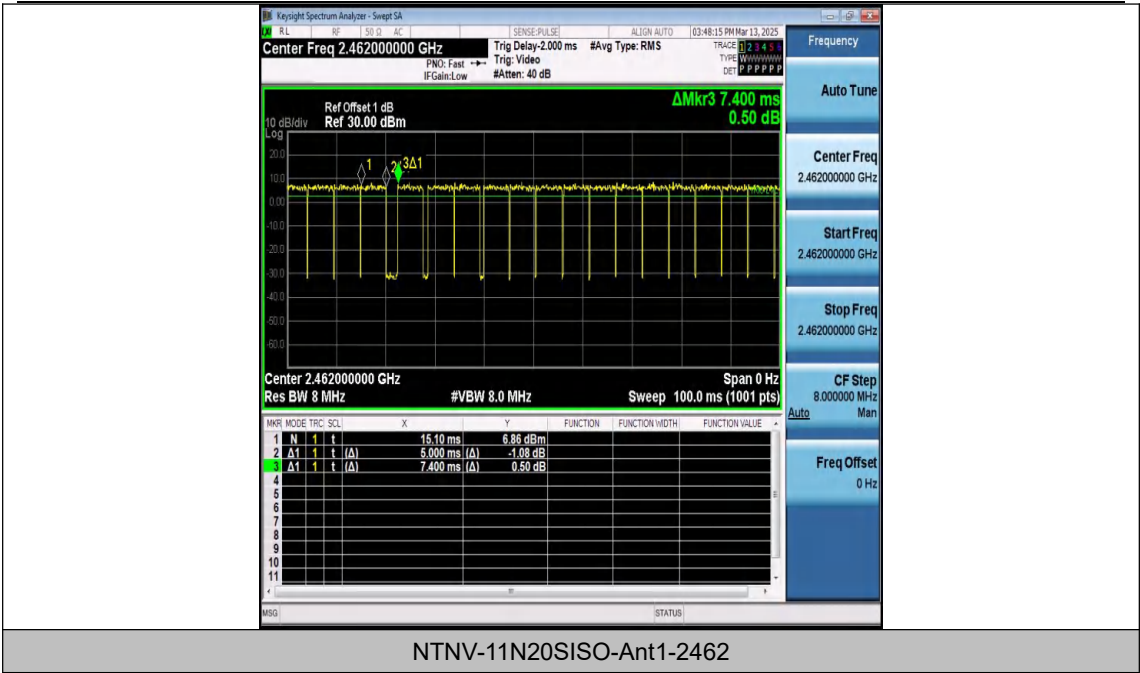


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