

Appendix Test Data

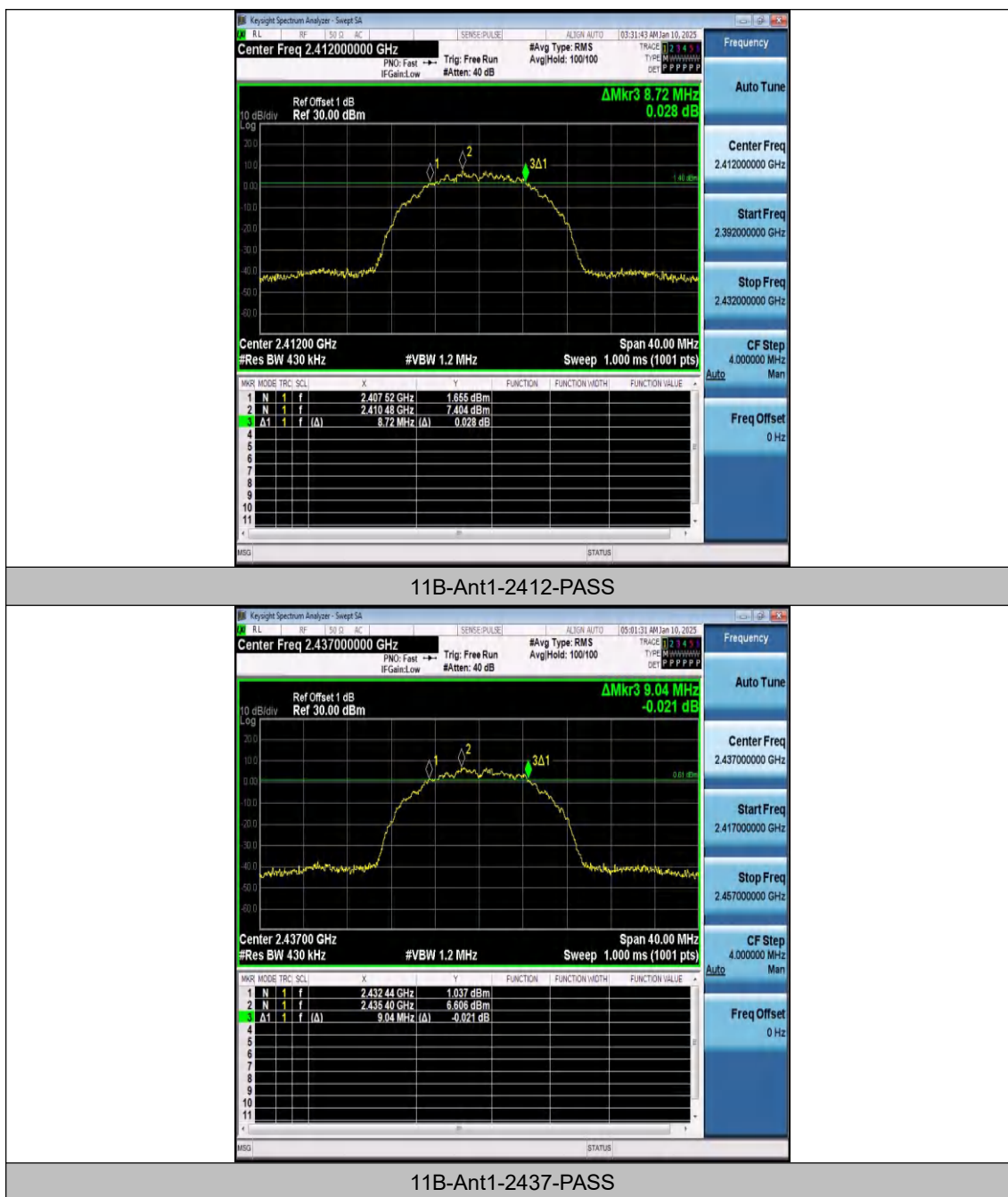
Report No.:	1812C40202112502	Test Sample No.:	1-2-2
Start Test Date:	2025.01.10	Finish Test Date:	2025.01.10
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	49%
Pressure:	101kPa		

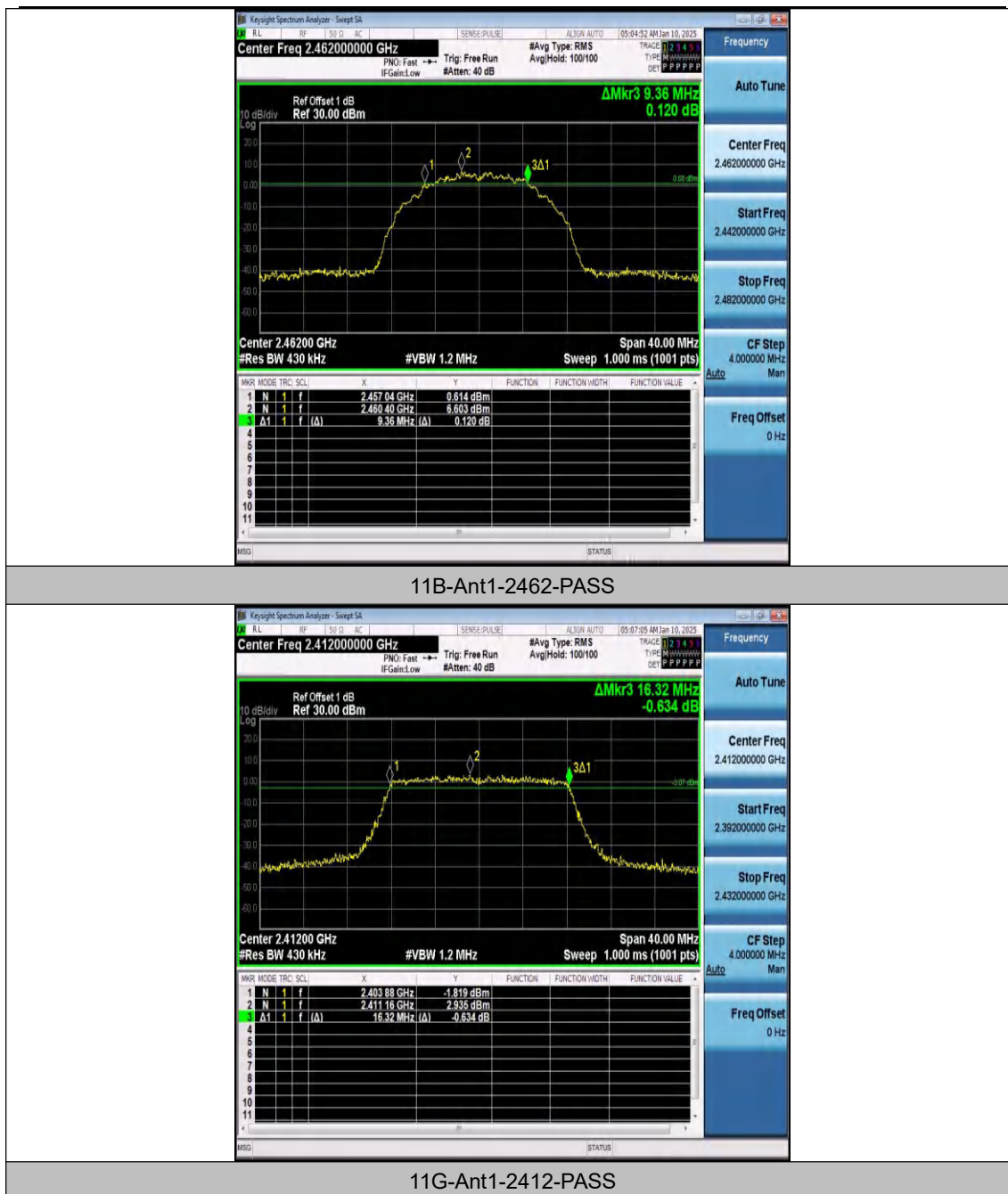
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.720	2407.520	2416.240	0.5	PASS
11B	Ant1	2437	9.040	2432.440	2441.480	0.5	PASS
11B	Ant1	2462	9.360	2457.040	2466.400	0.5	PASS
11G	Ant1	2412	16.320	2403.880	2420.200	0.5	PASS
11G	Ant1	2437	16.400	2428.840	2445.240	0.5	PASS
11G	Ant1	2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.320	2420.600	0.5	PASS
11N20SISO	Ant1	2437	17.400	2428.360	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.280	2453.360	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.160	2439.760	0.5	PASS
11N40SISO	Ant1	2437	35.680	2419.160	2454.840	0.5	PASS
11N40SISO	Ant1	2452	35.440	2434.320	2469.760	0.5	PASS

Test Graphs

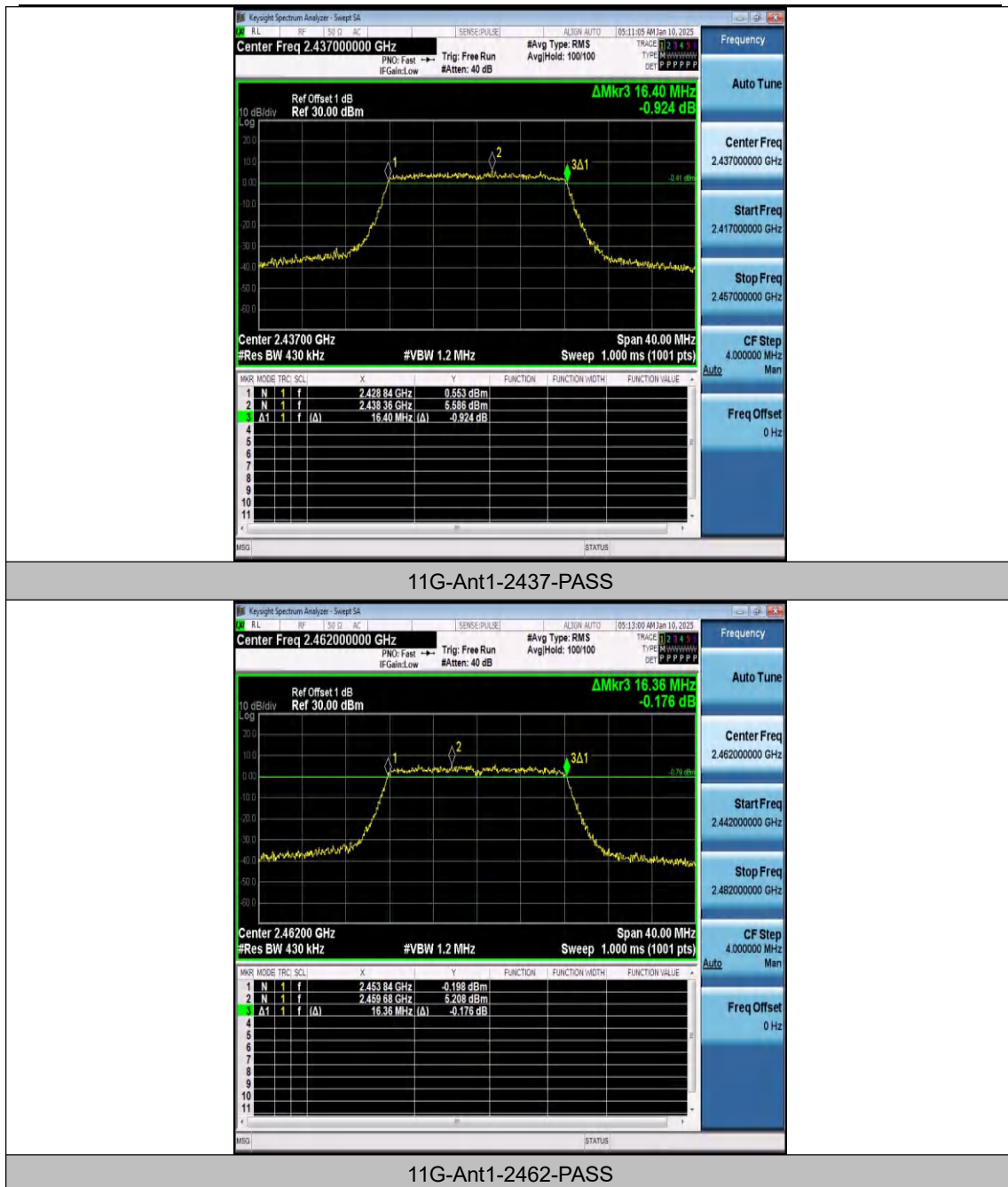


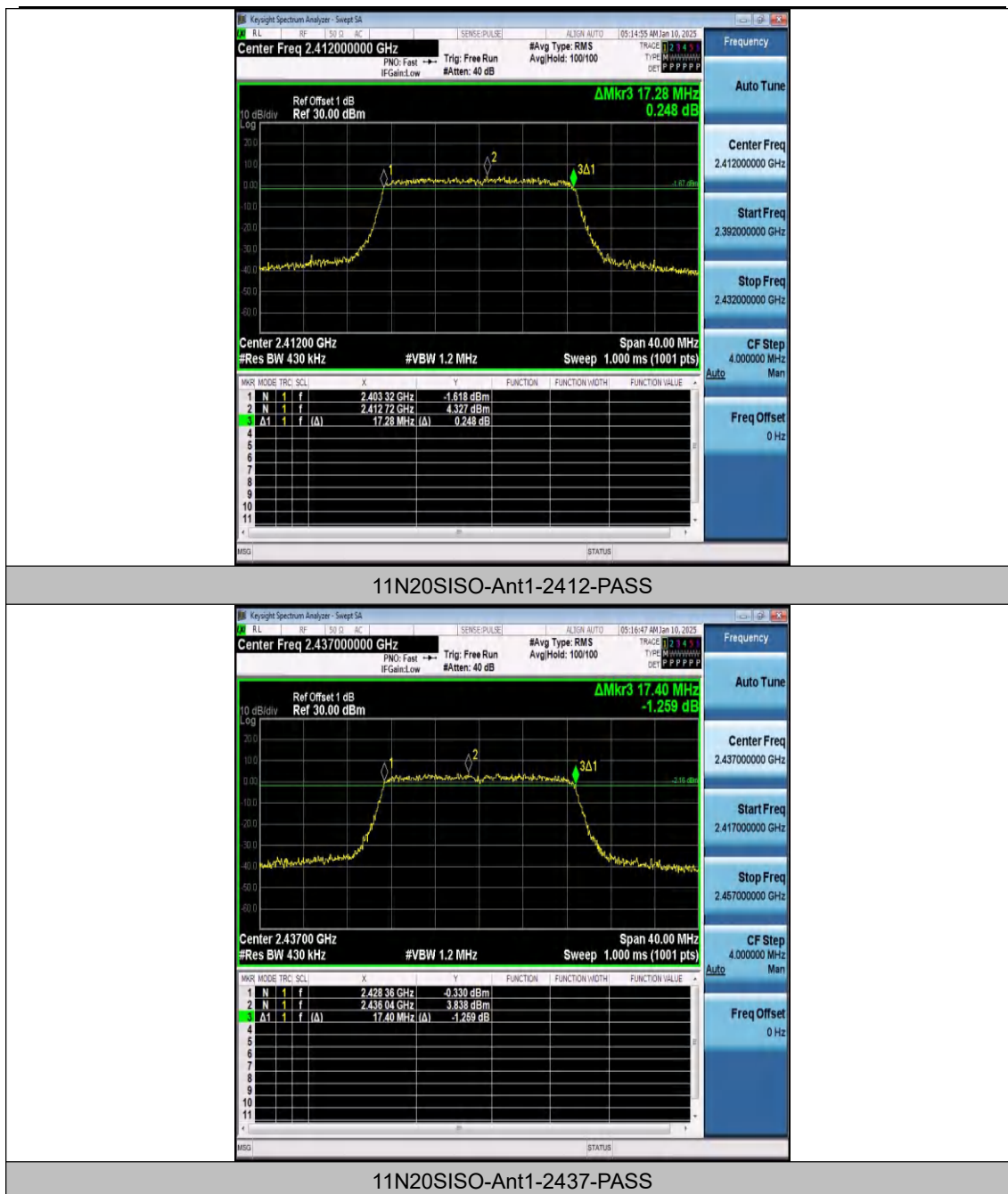


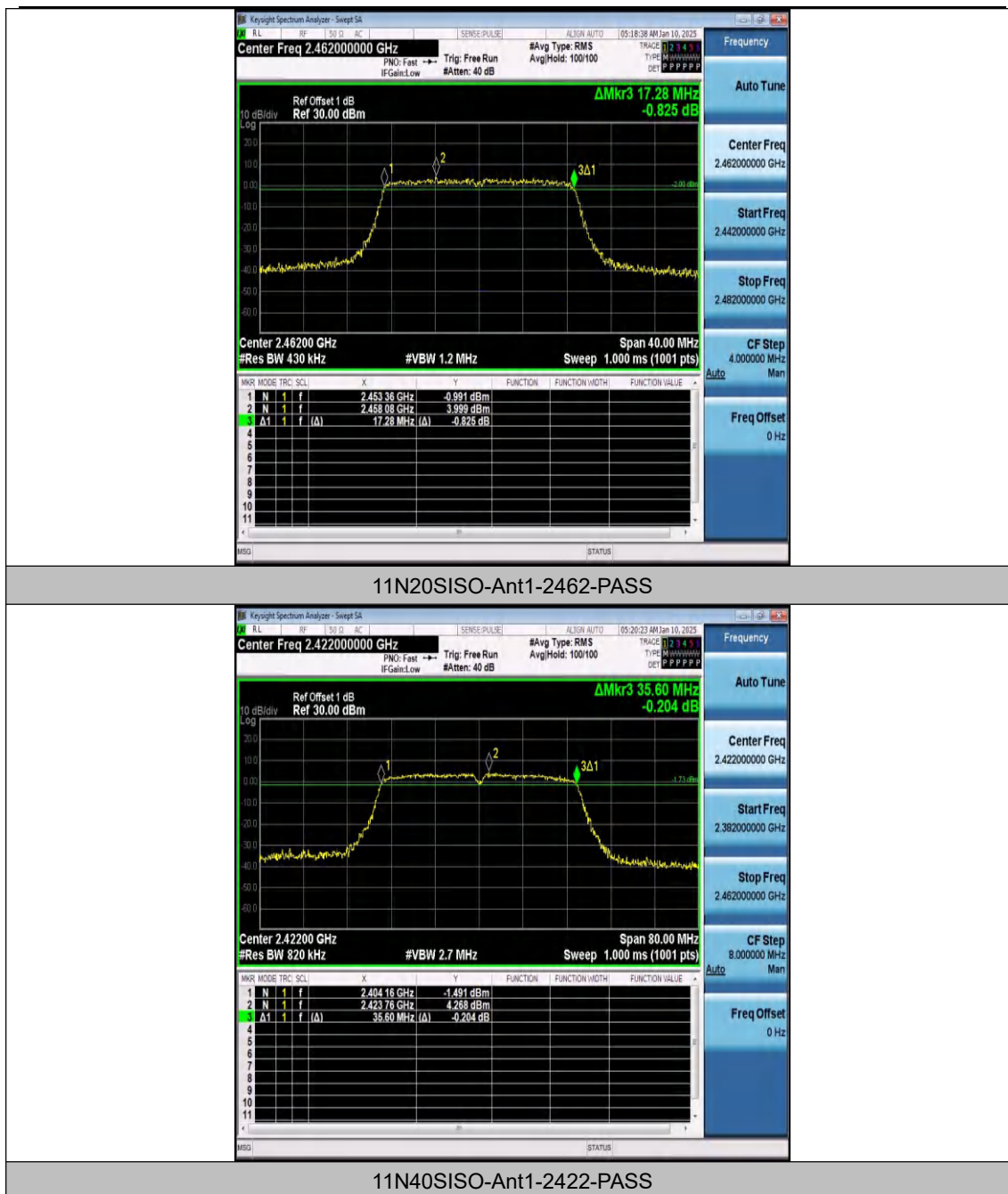
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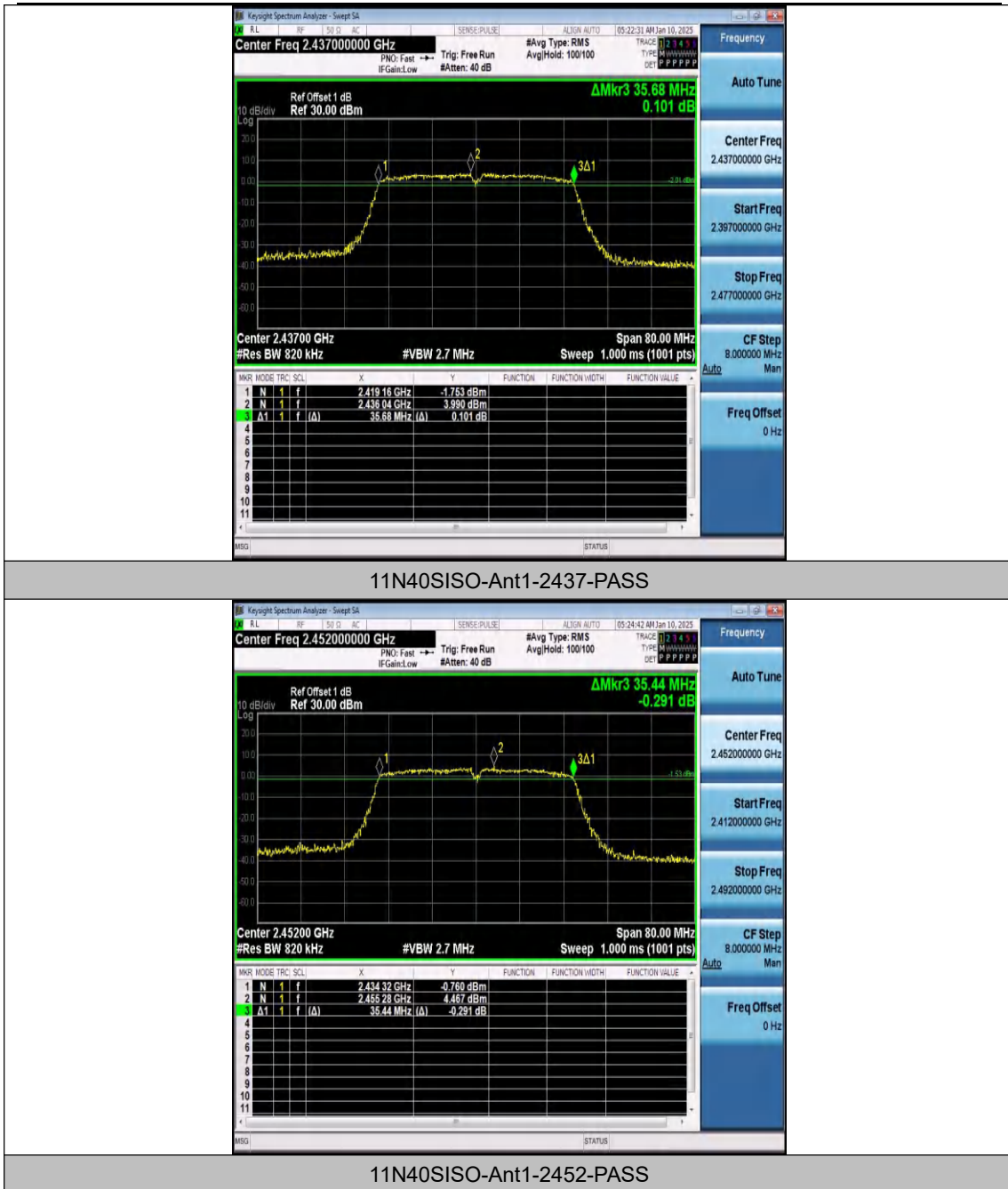




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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.971	2405.4853	2418.4563	---	---
11B	Ant1	2437	12.971	2430.5079	2443.4789	---	---
11B	Ant1	2462	12.990	2455.4819	2468.4719	---	---
11G	Ant1	2412	16.653	2403.6780	2420.3310	---	---
11G	Ant1	2437	16.639	2428.7057	2445.3447	---	---
11G	Ant1	2462	16.674	2453.6788	2470.3528	---	---
11N20SISO	Ant1	2412	17.503	2403.2637	2420.7667	---	---
11N20SISO	Ant1	2437	17.467	2428.2851	2445.7521	---	---
11N20SISO	Ant1	2462	17.498	2453.2746	2470.7726	---	---
11N40SISO	Ant1	2422	35.947	2404.0355	2439.9825	---	---
11N40SISO	Ant1	2437	36.059	2419.0076	2455.0666	---	---
11N40SISO	Ant1	2452	35.921	2434.0784	2469.9994	---	---

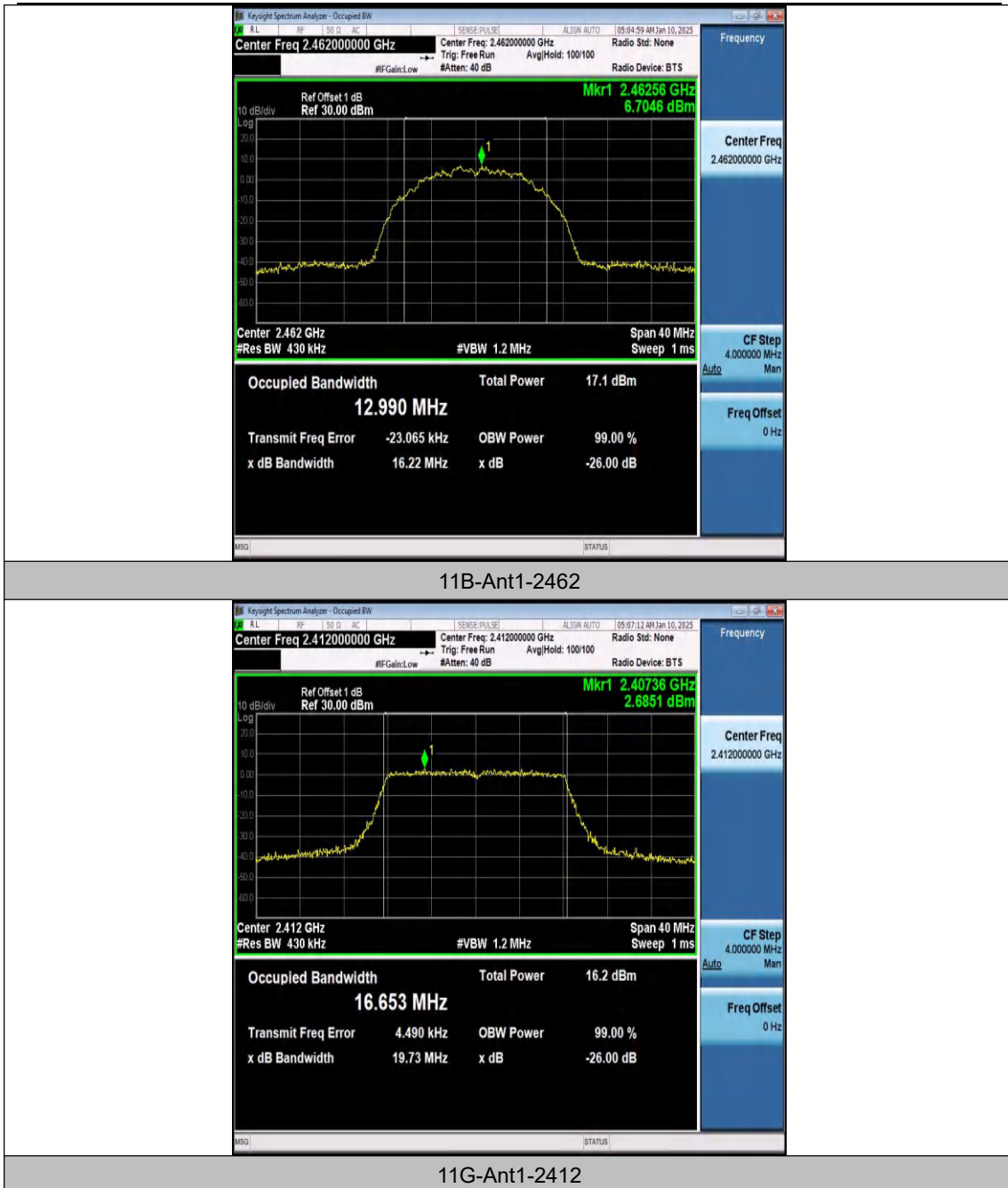
Test Graphs



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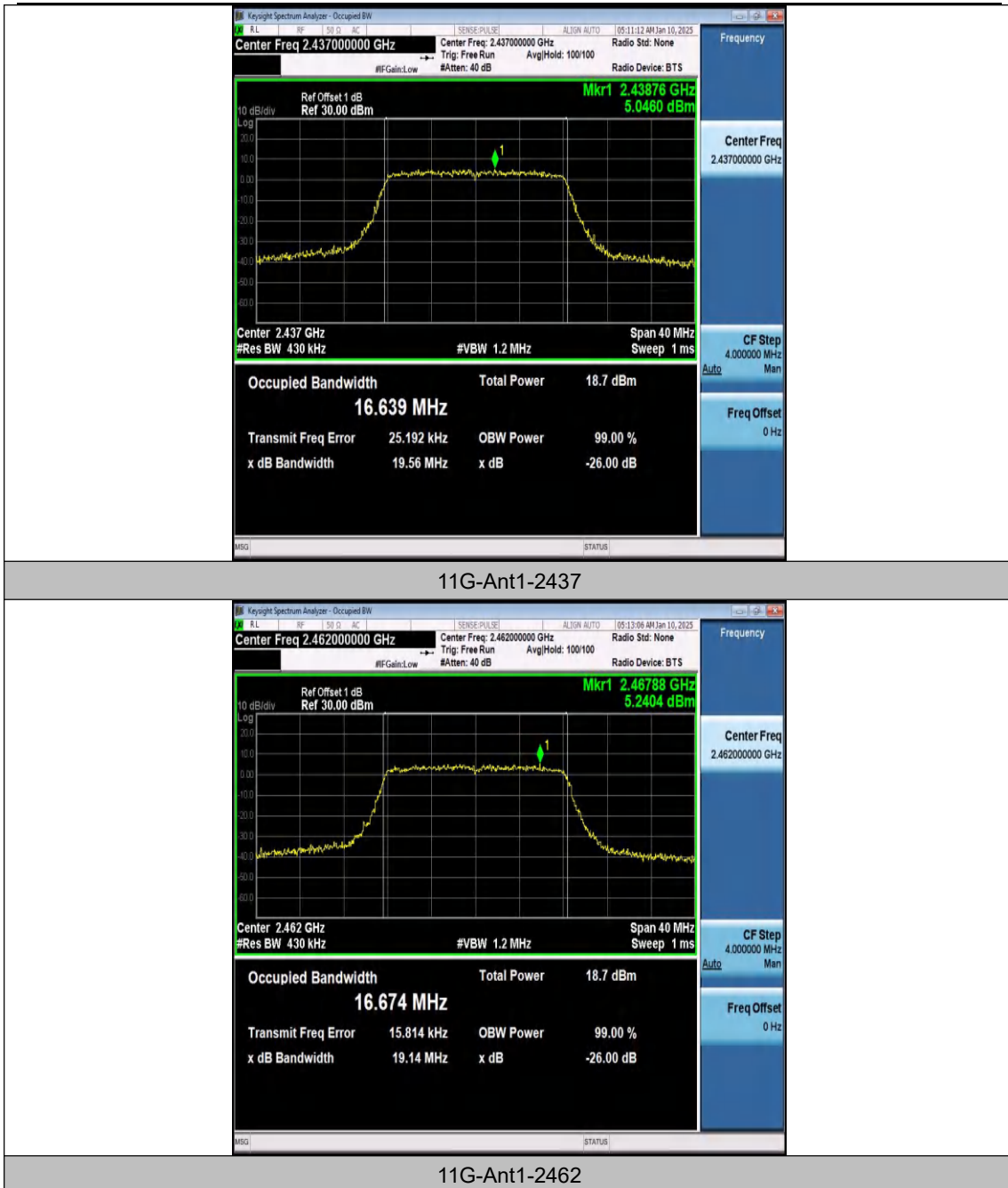
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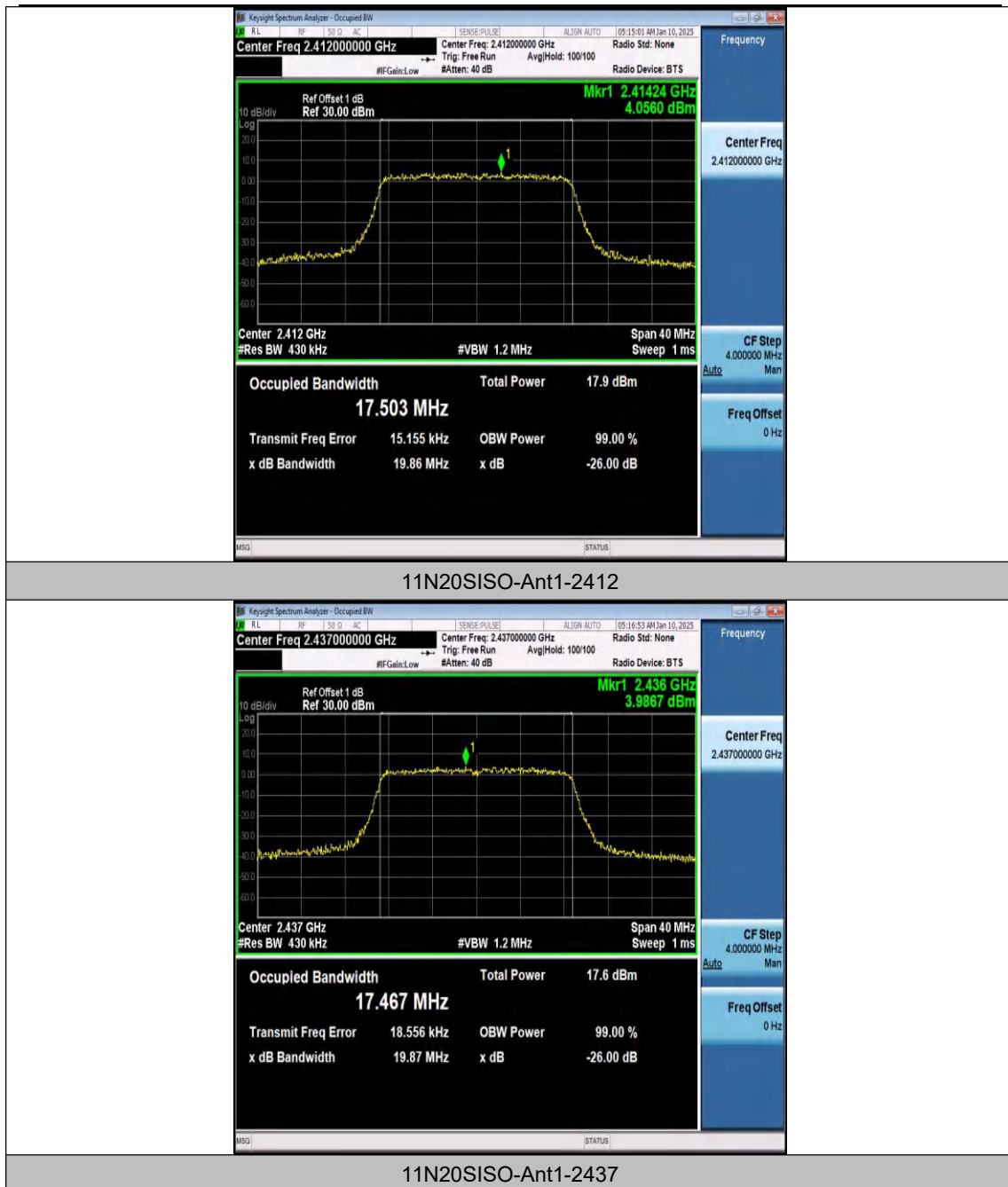


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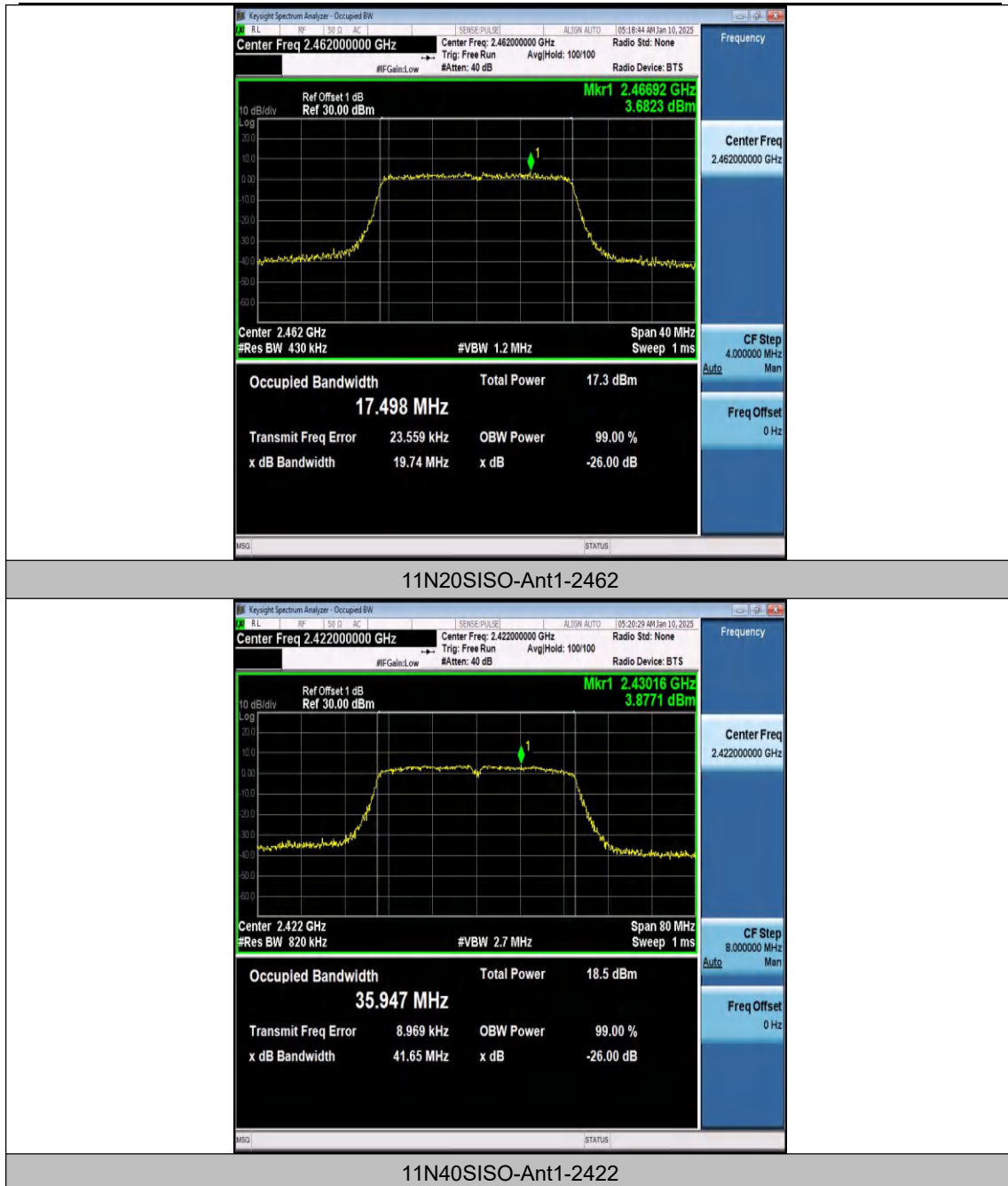




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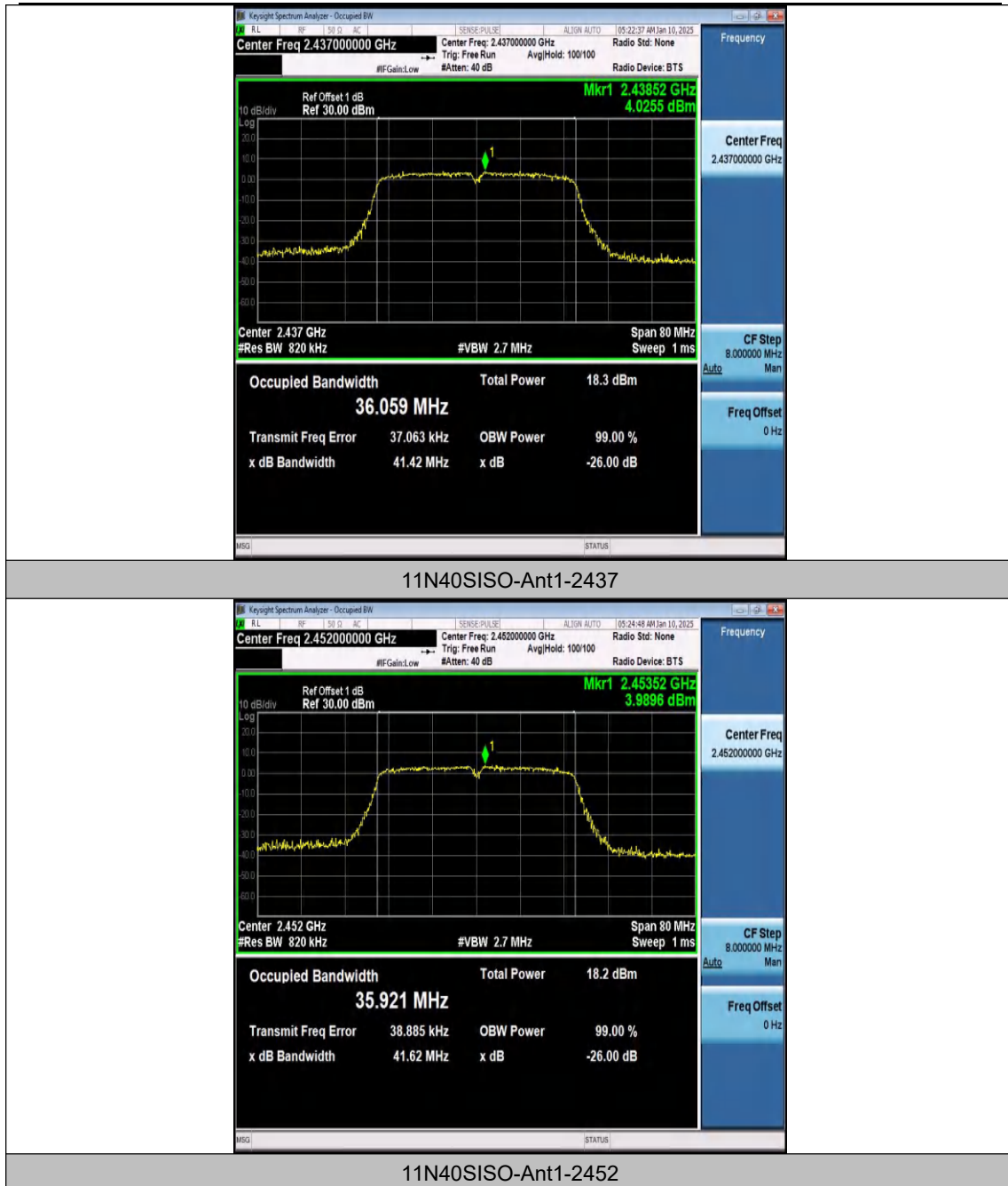
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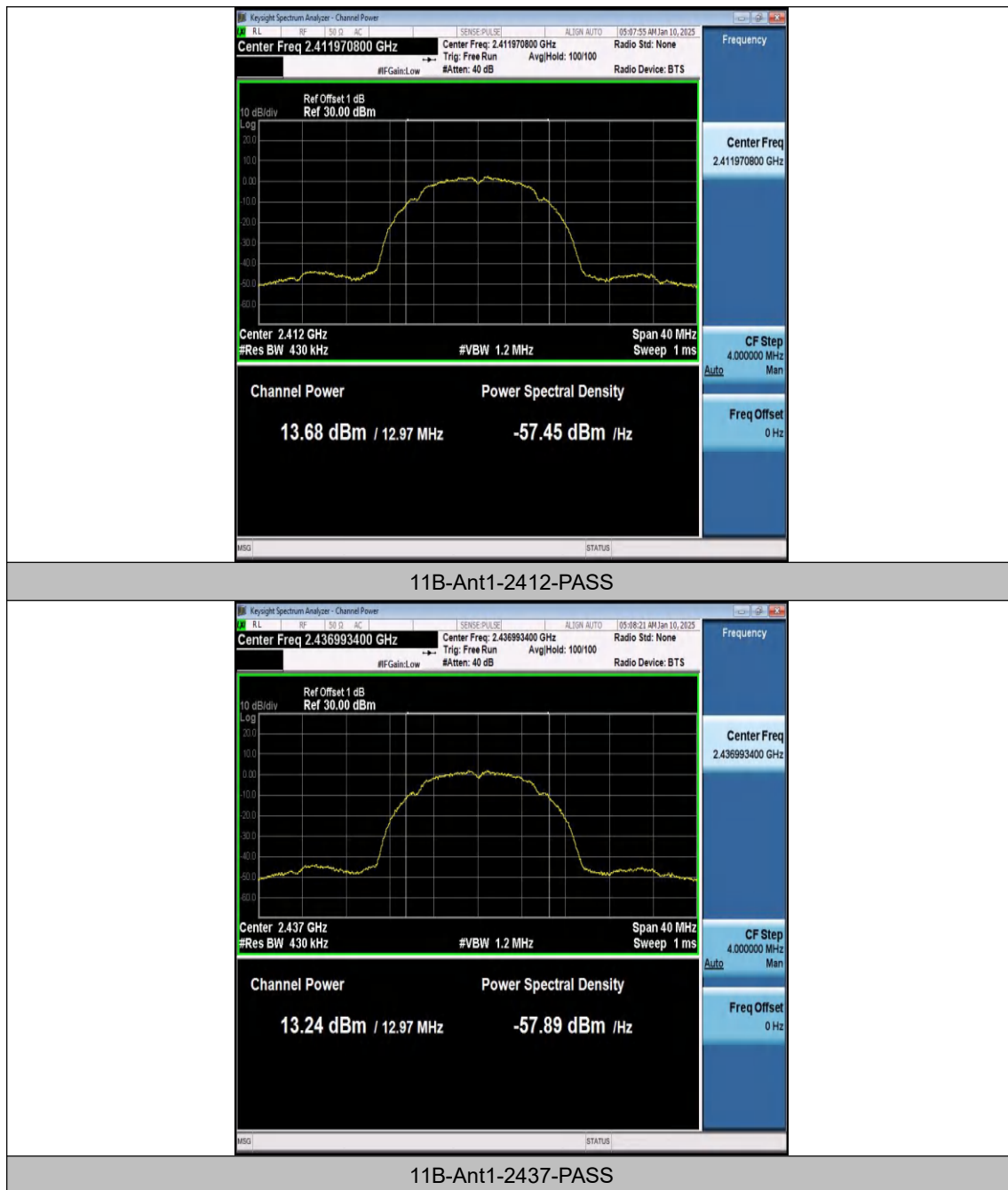
Appendix C: Maximum conducted output power

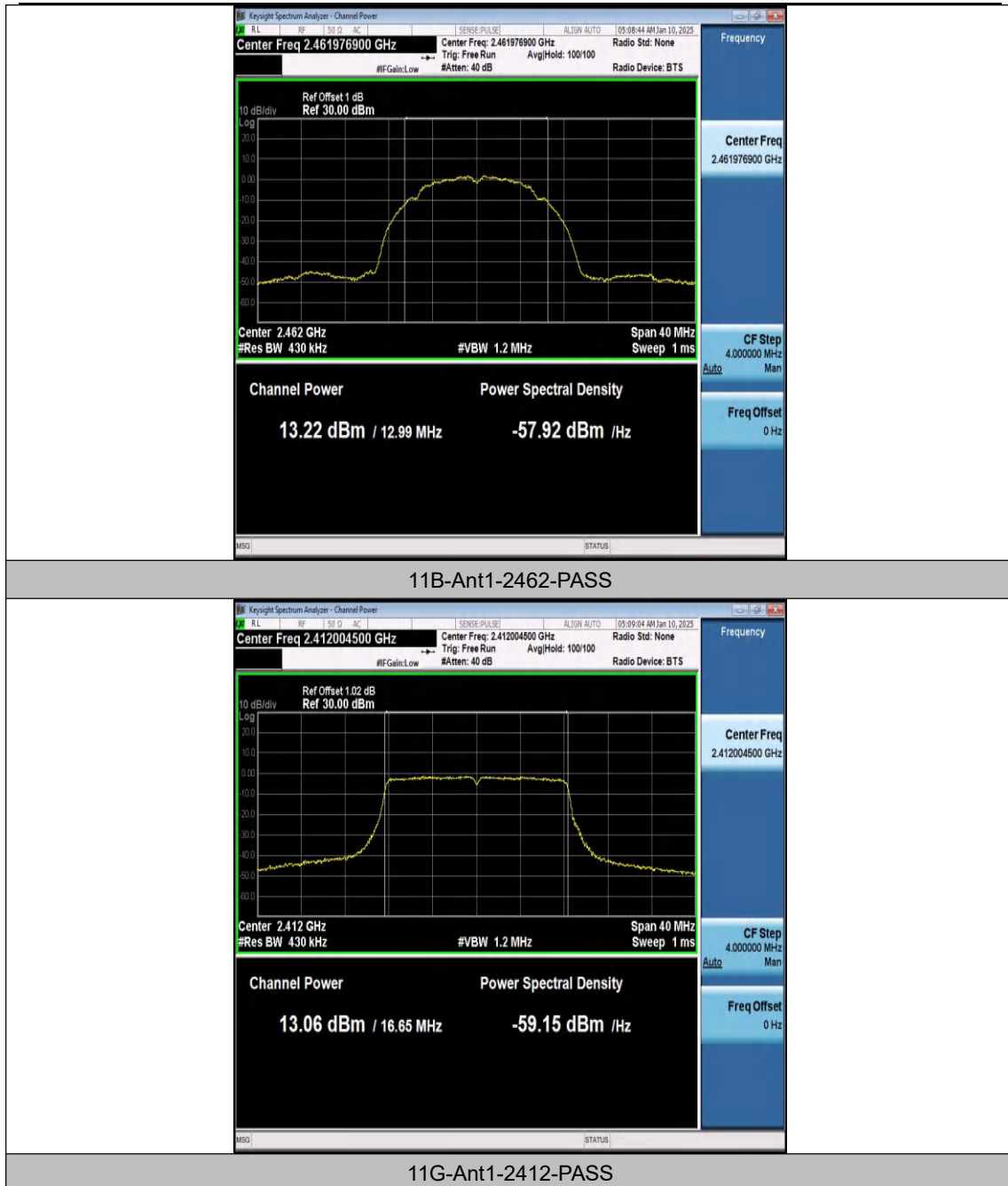
Test Result Average

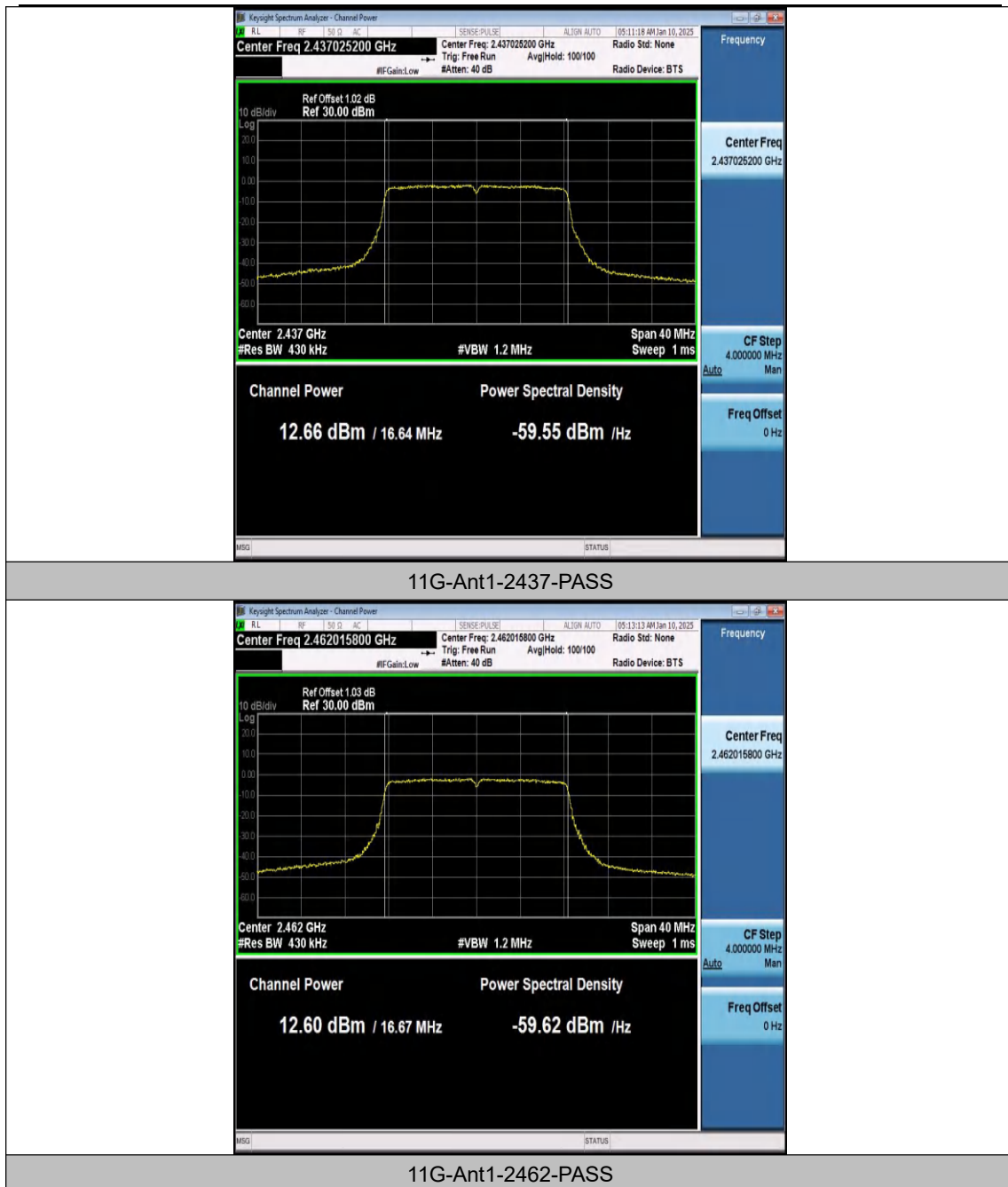
Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.68	100.00	0.00	13.68	≤30.00	PASS
11B	Ant1	2437	13.24	100.00	0.00	13.24	≤30.00	PASS
11B	Ant1	2462	13.22	100.00	0.00	13.22	≤30.00	PASS
11G	Ant1	2412	13.04	99.46	0.02	13.06	≤30.00	PASS
11G	Ant1	2437	12.64	99.64	0.02	12.66	≤30.00	PASS
11G	Ant1	2462	12.57	99.28	0.03	12.60	≤30.00	PASS
11N20SISO	Ant1	2412	11.79	99.61	0.02	11.81	≤30.00	PASS
11N20SISO	Ant1	2437	11.39	99.61	0.02	11.41	≤30.00	PASS
11N20SISO	Ant1	2462	11.30	99.80	0.01	11.31	≤30.00	PASS
11N40SISO	Ant1	2422	11.48	99.20	0.03	11.51	≤30.00	PASS
11N40SISO	Ant1	2437	11.32	99.20	0.03	11.35	≤30.00	PASS
11N40SISO	Ant1	2452	11.18	98.80	0.05	11.23	≤30.00	PASS

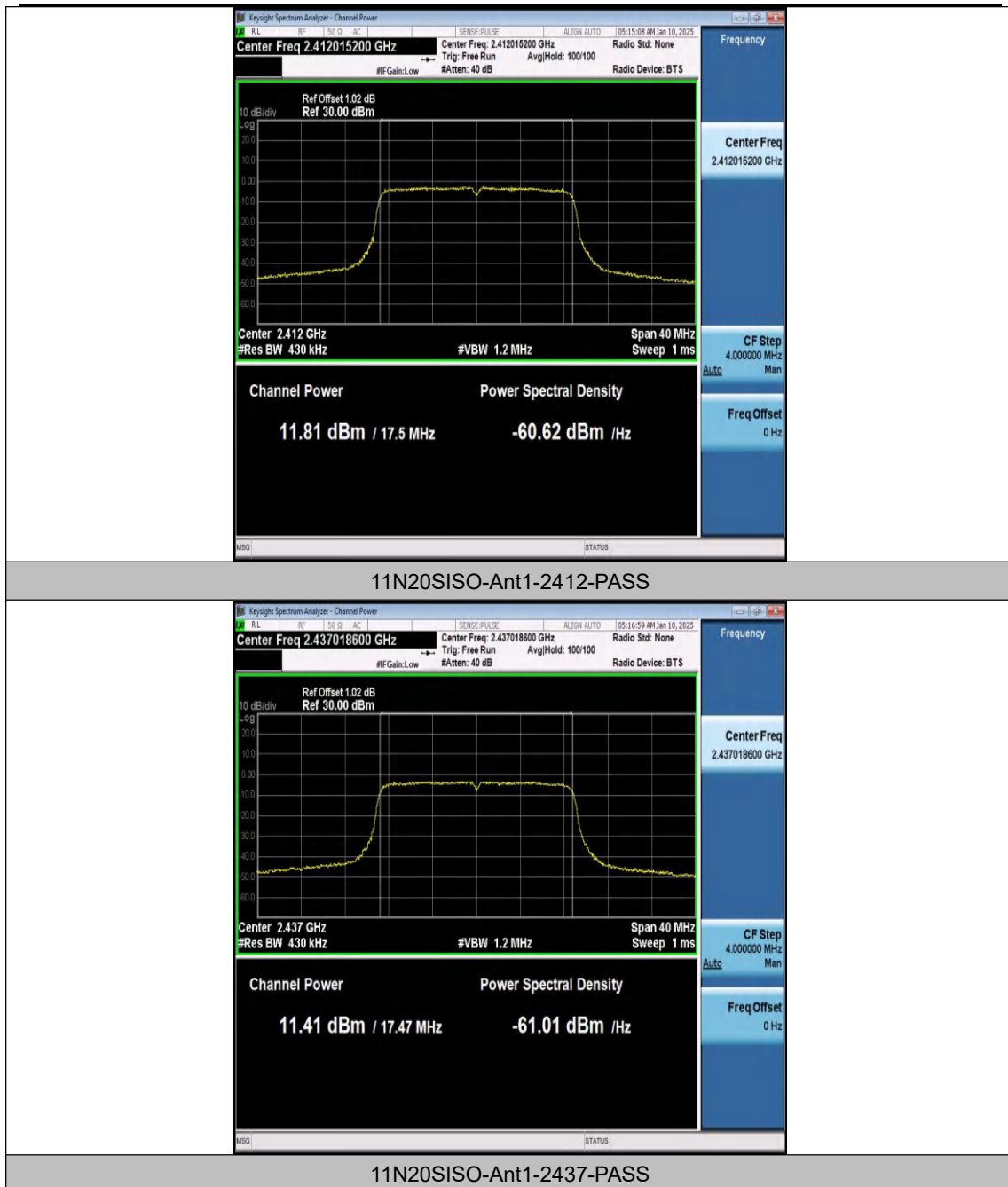
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.

Test Graphs Average





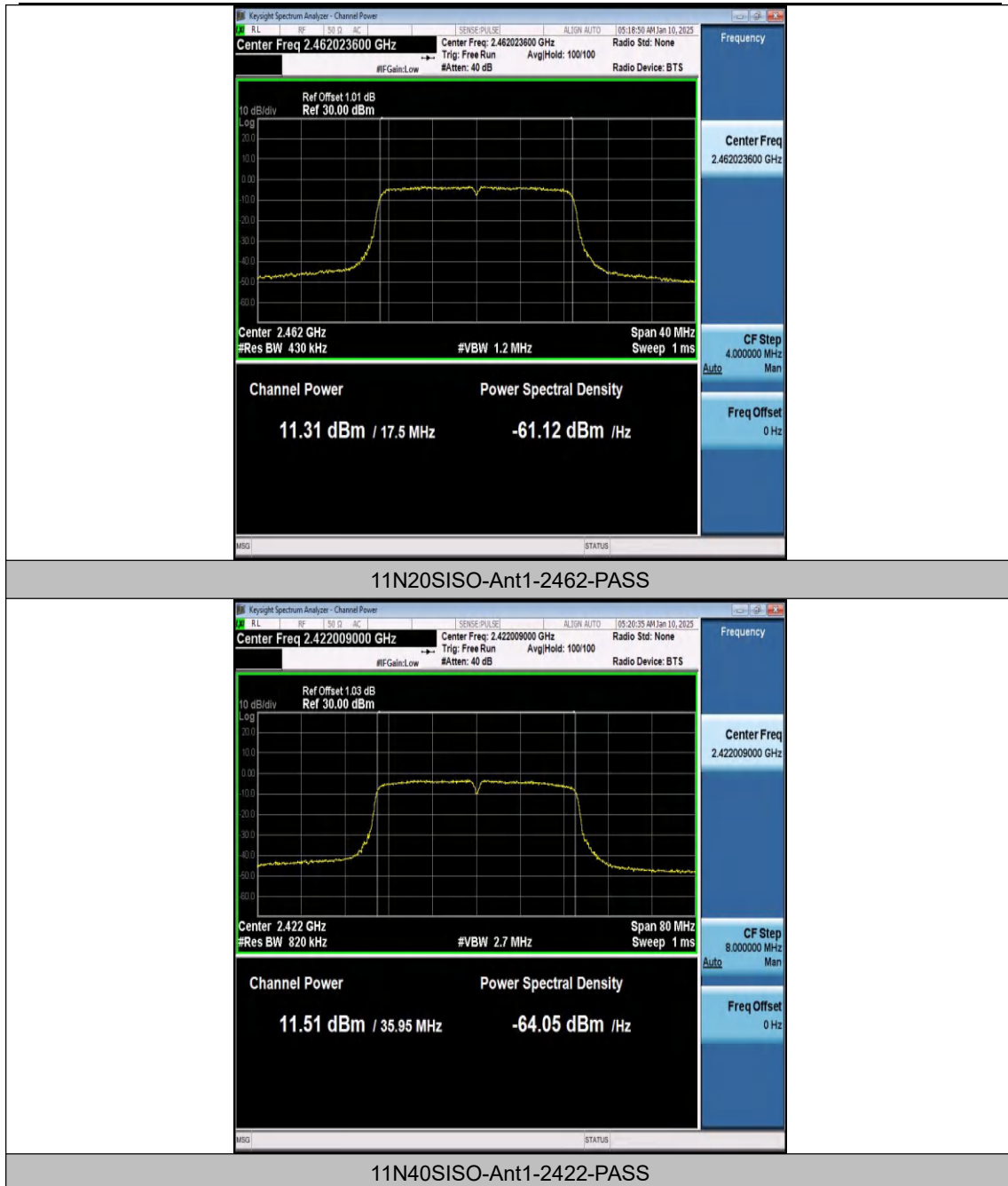


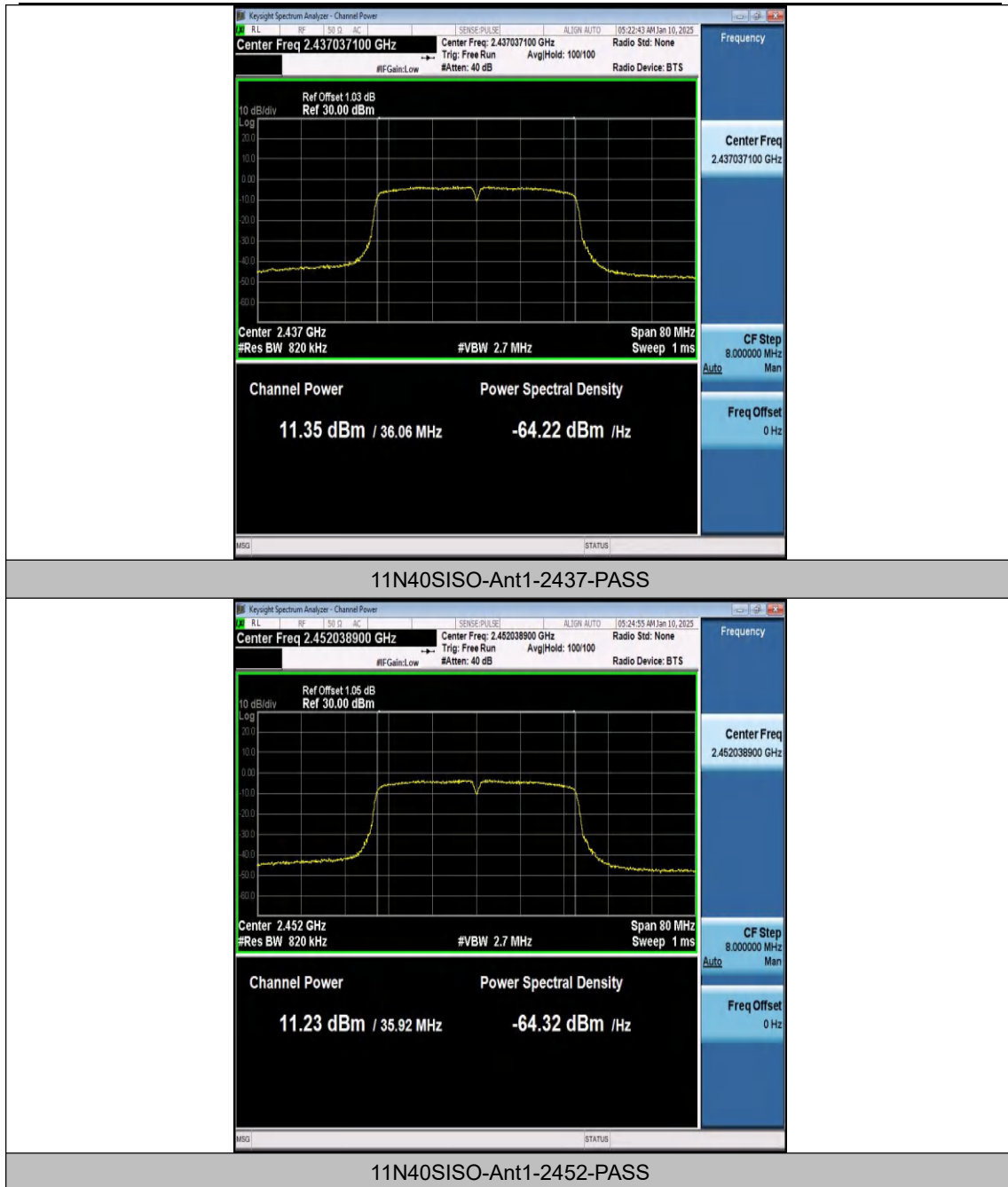


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Appendix D: Maximum power spectral density

Test Result

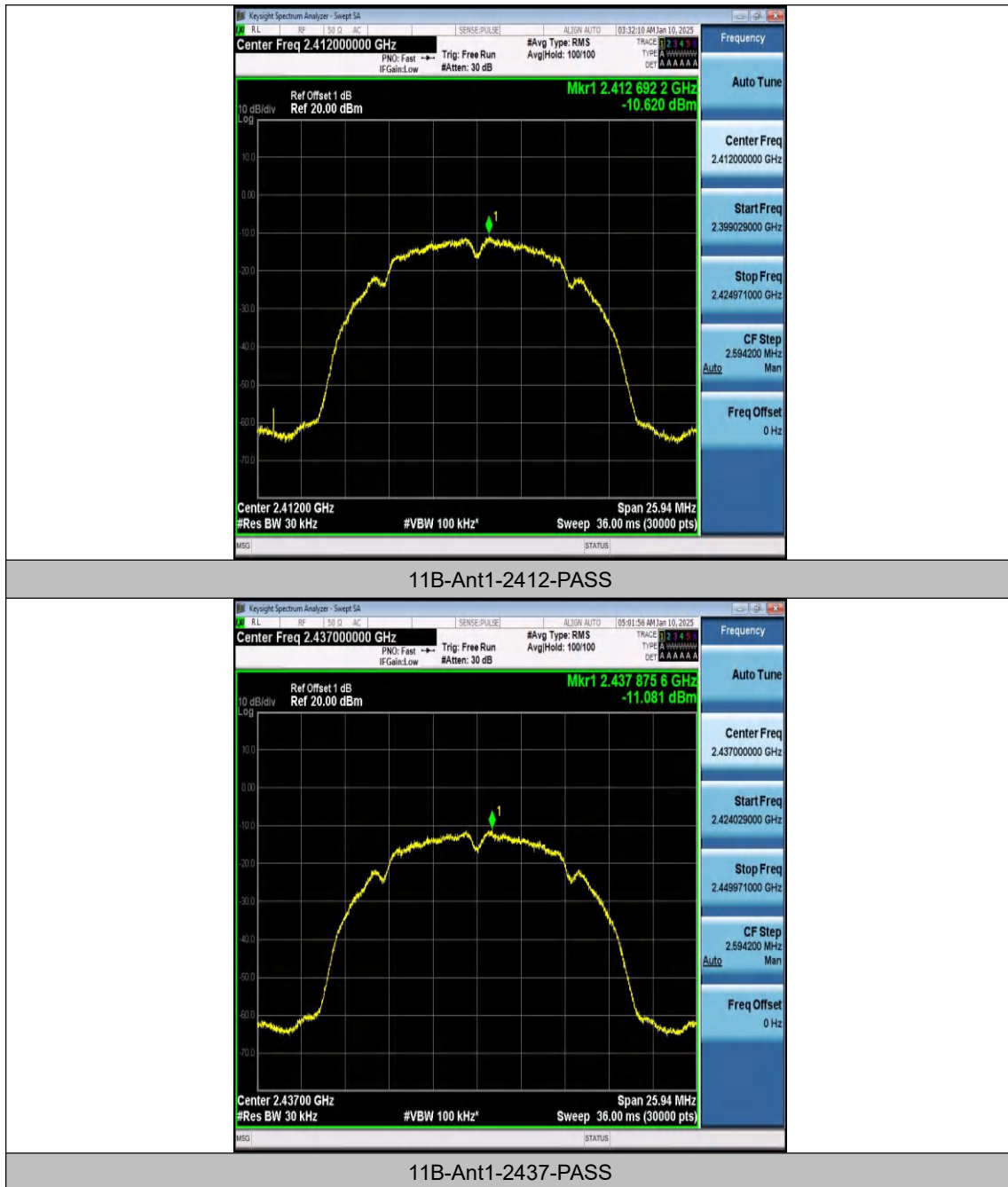
Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.62	-20.62	≤8.00	PASS
11B	Ant1	2437	-11.08	-21.08	≤8.00	PASS
11B	Ant1	2462	-11.24	-21.24	≤8.00	PASS
11G	Ant1	2412	-11.31	-21.31	≤8.00	PASS
11G	Ant1	2437	-11.63	-21.63	≤8.00	PASS
11G	Ant1	2462	-11.62	-21.62	≤8.00	PASS
11N20SISO	Ant1	2412	-12.27	-22.27	≤8.00	PASS
11N20SISO	Ant1	2437	-12.66	-22.66	≤8.00	PASS
11N20SISO	Ant1	2462	-12.09	-22.09	≤8.00	PASS
11N40SISO	Ant1	2422	-15.26	-25.26	≤8.00	PASS
11N40SISO	Ant1	2437	-15.26	-25.26	≤8.00	PASS
11N40SISO	Ant1	2452	-15.51	-25.51	≤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

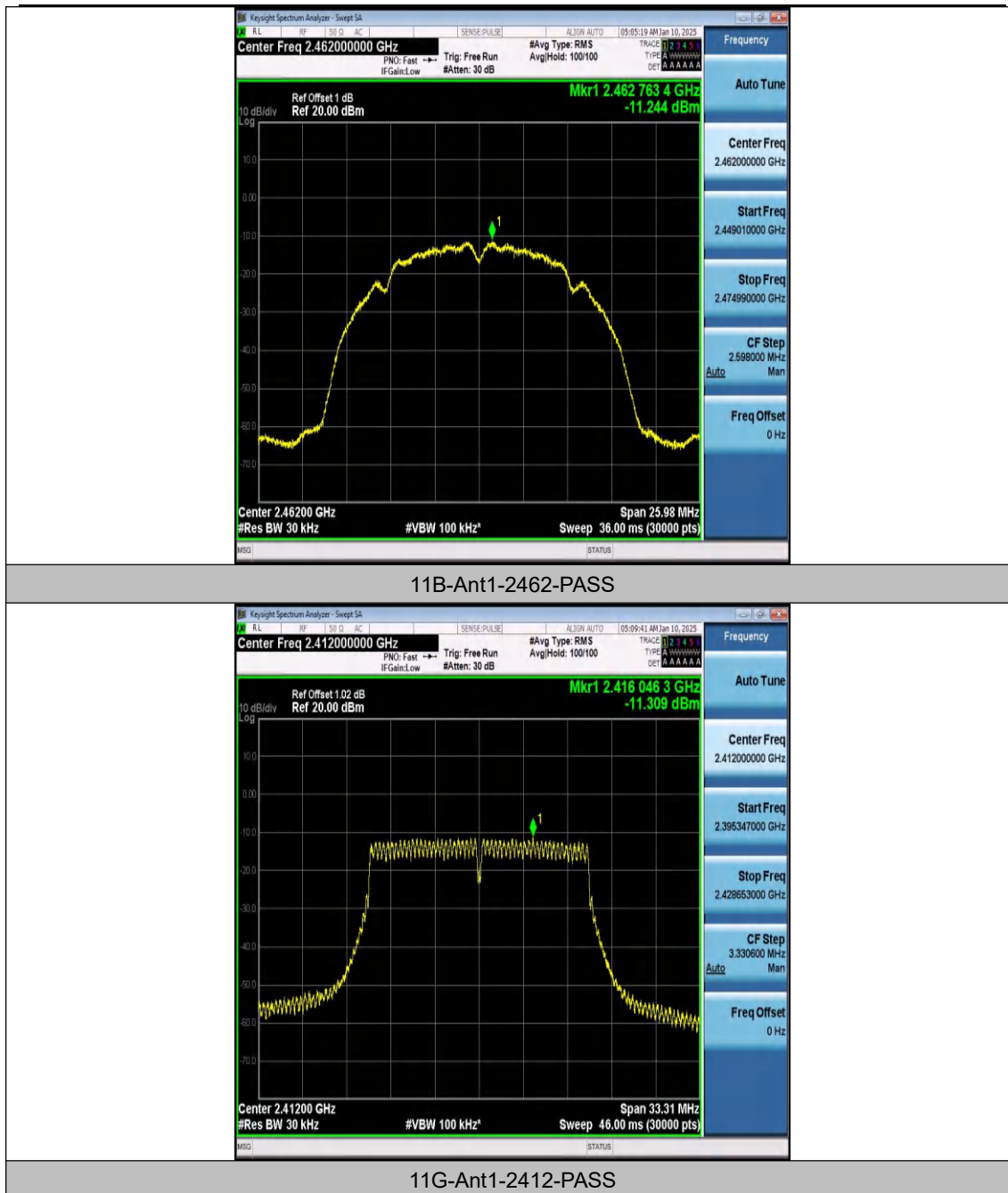


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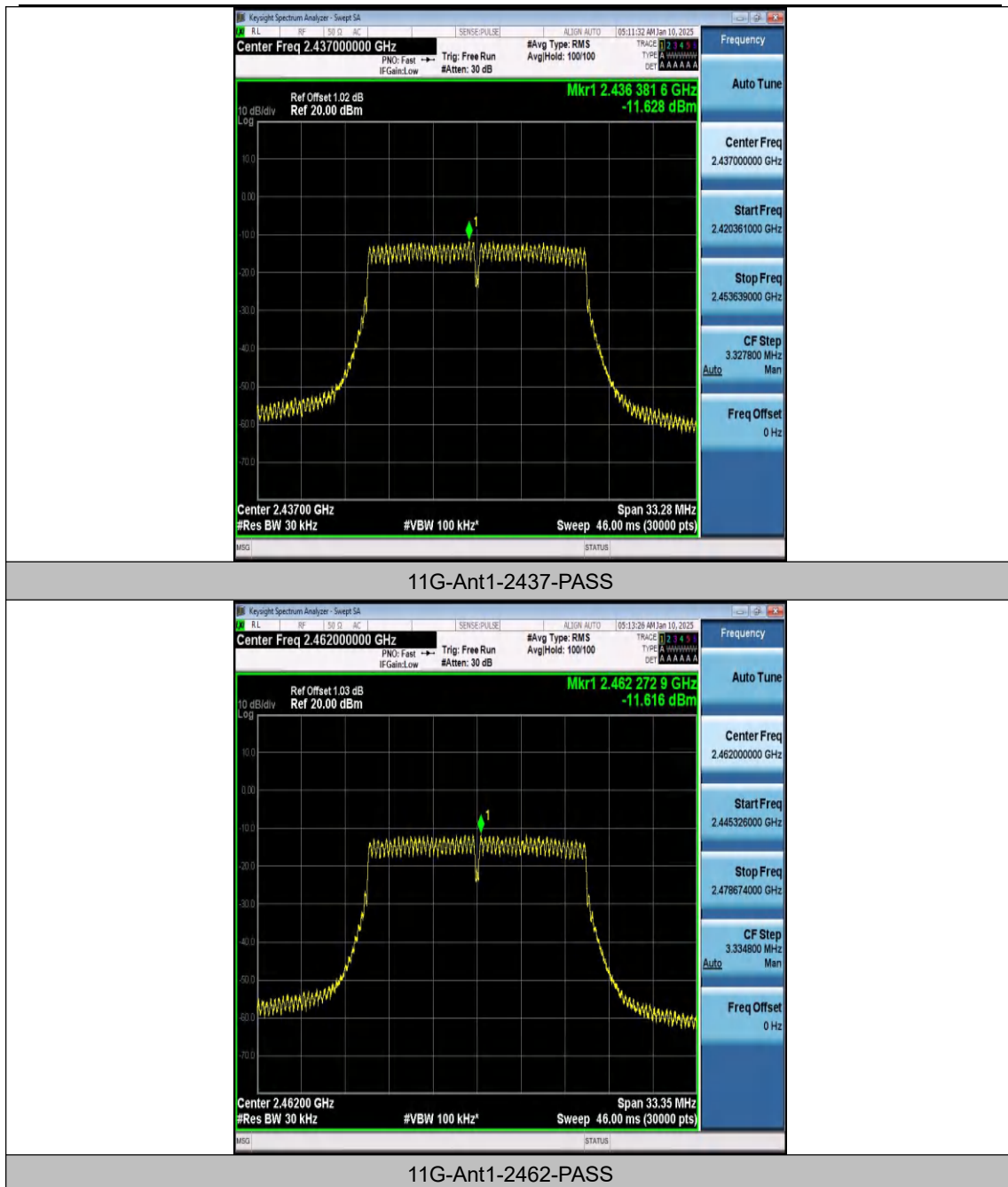
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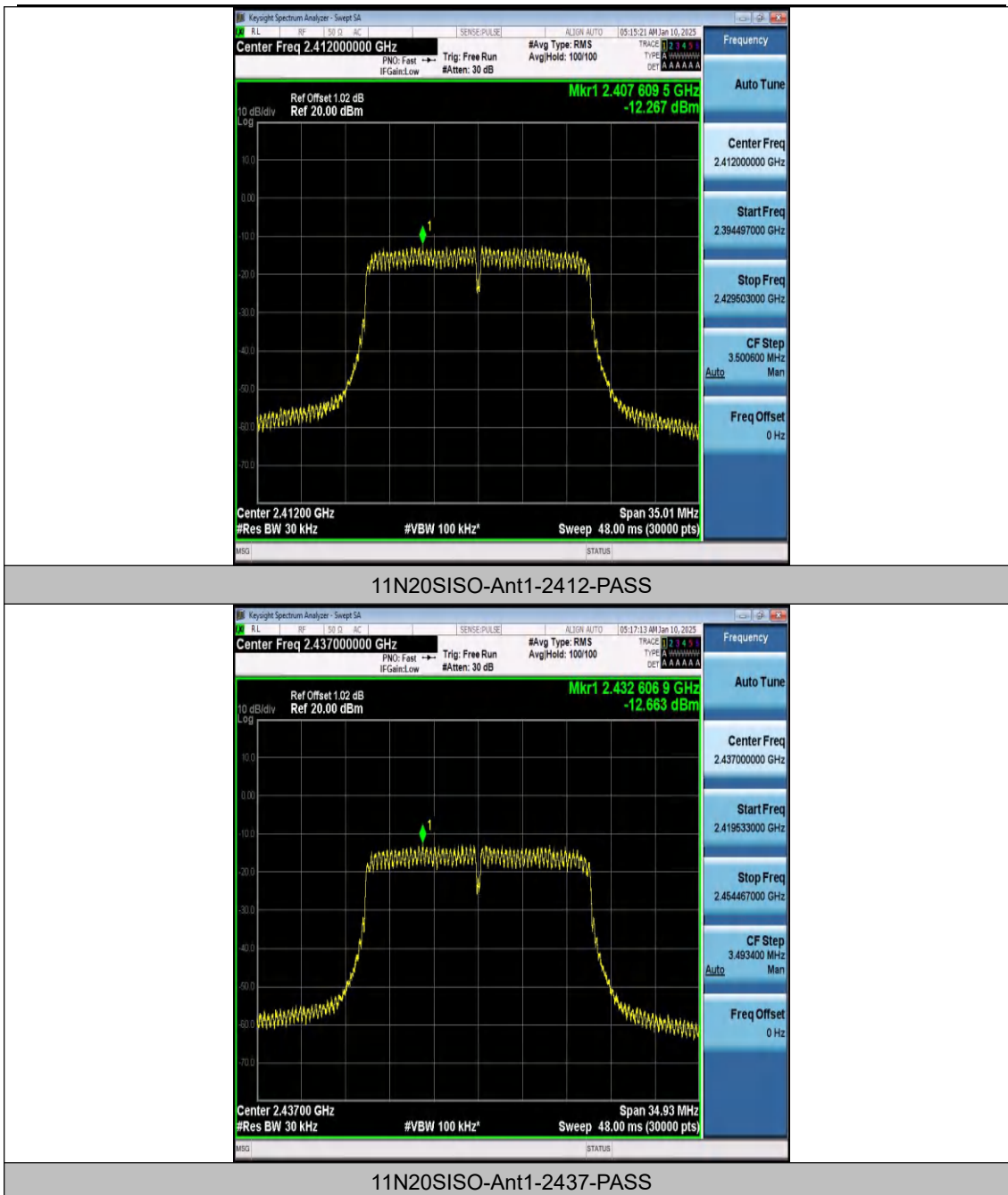
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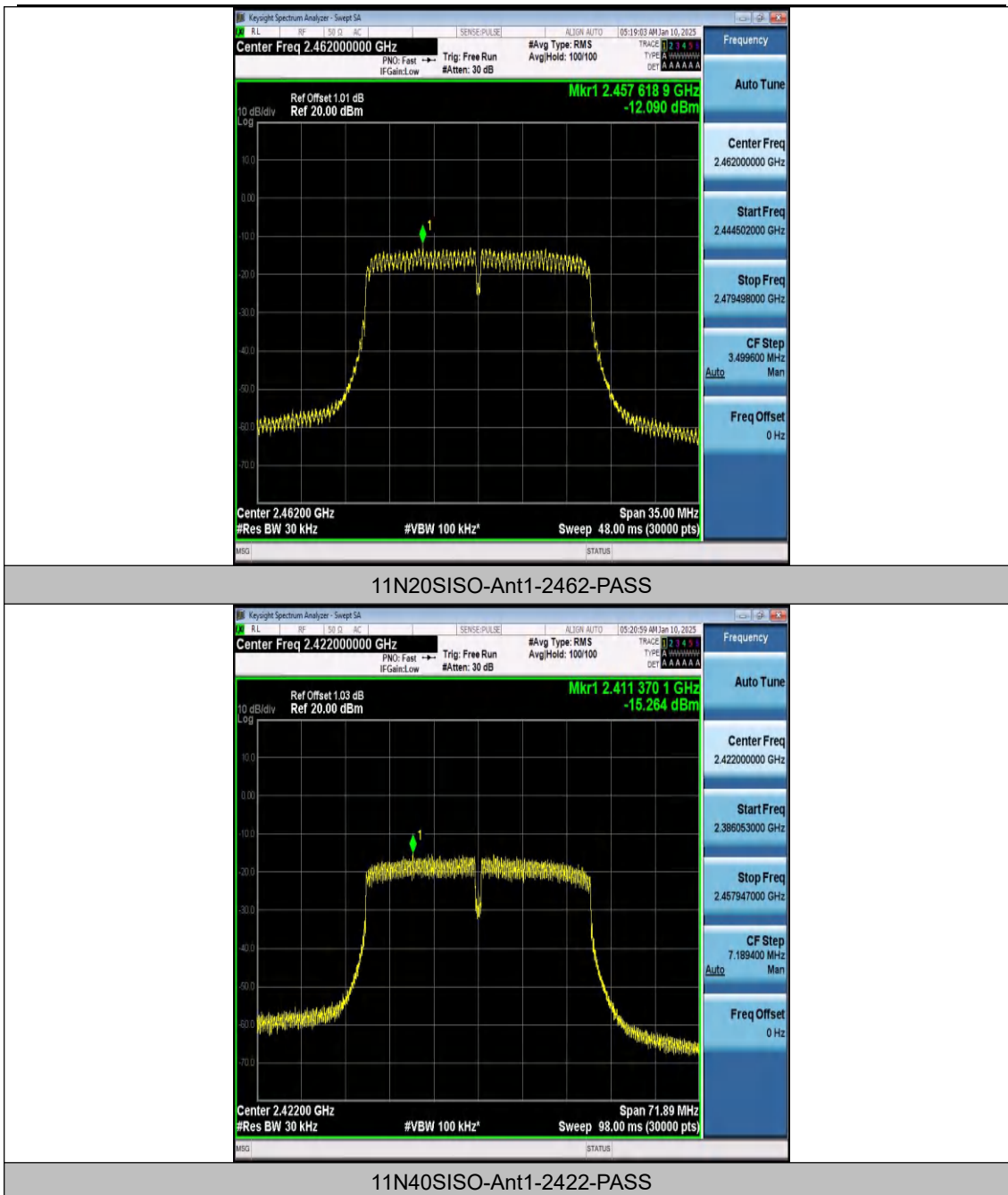
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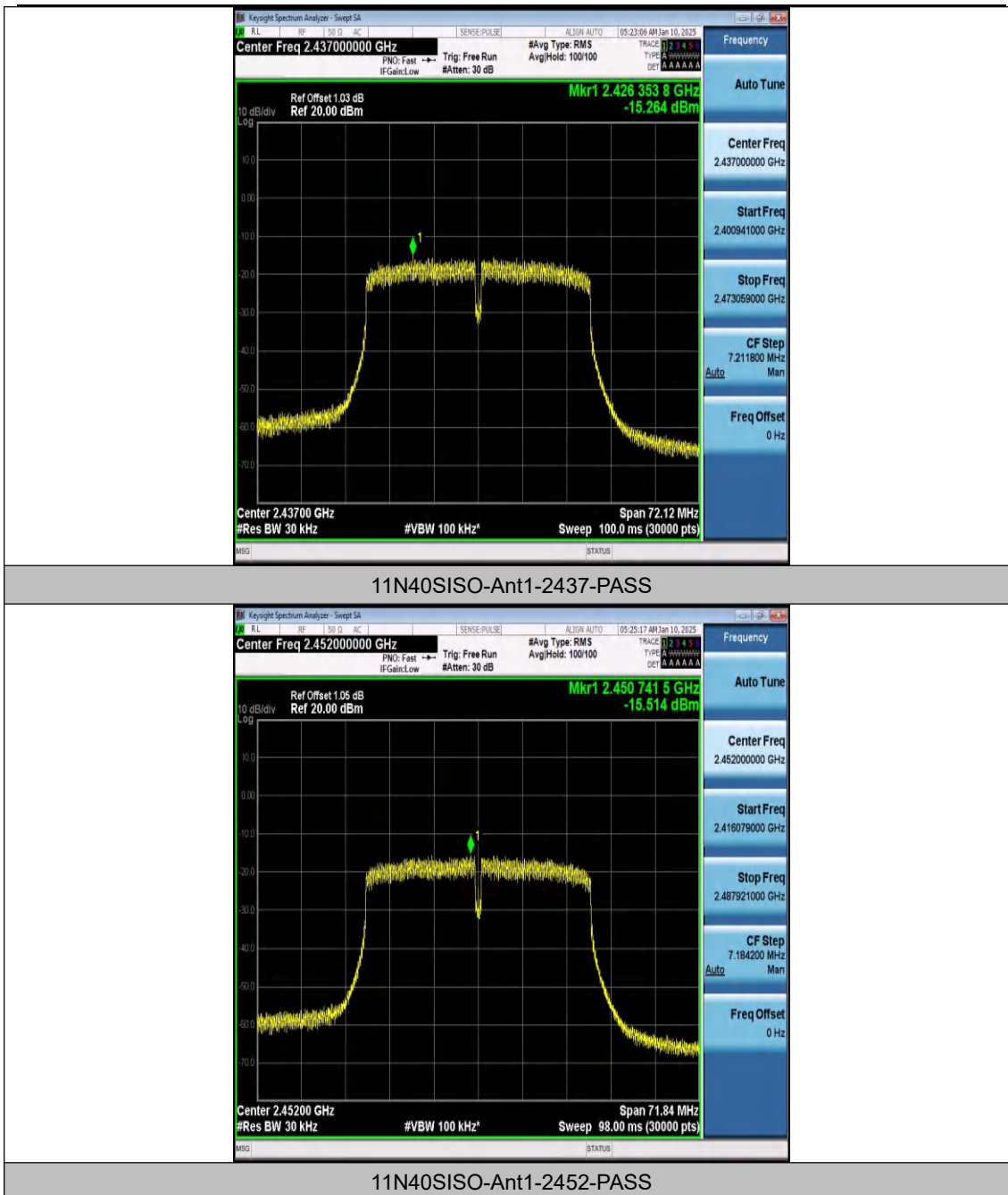
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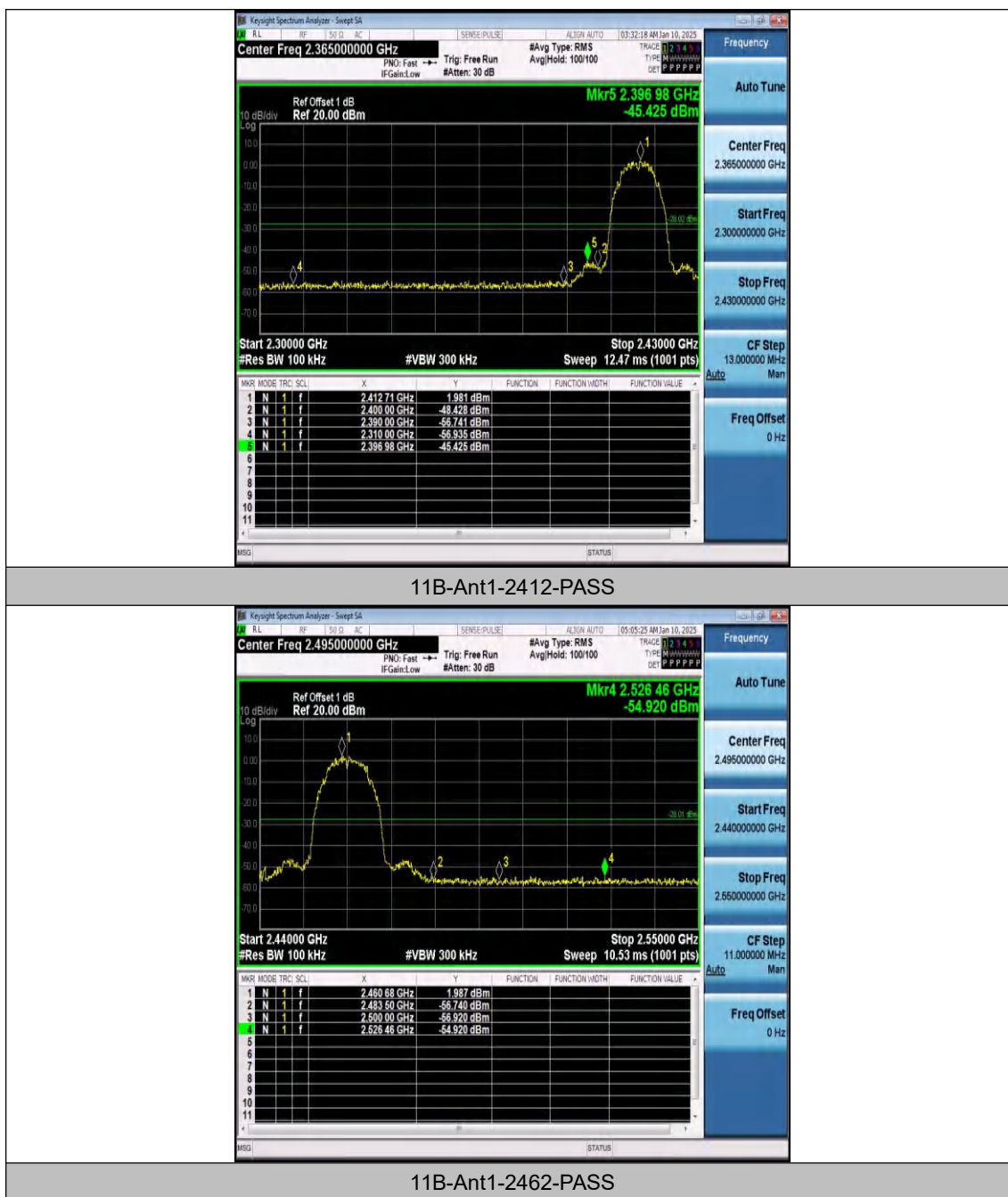
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.98	-45.43	≤-28.02	PASS
11B	Ant1	High	2462	1.99	-54.92	≤-28.01	PASS
11G	Ant1	Low	2412	1.84	-38.5	≤-28.16	PASS
11G	Ant1	High	2462	0.30	-48.77	≤-29.7	PASS
11N20SISO	Ant1	Low	2412	0.31	-40.67	≤-29.69	PASS
11N20SISO	Ant1	High	2462	0.16	-50.5	≤-29.84	PASS
11N40SISO	Ant1	Low	2422	-2.55	-40.53	≤-32.55	PASS
11N40SISO	Ant1	High	2452	-2.84	-50.46	≤-32.84	PASS



Test Graphs



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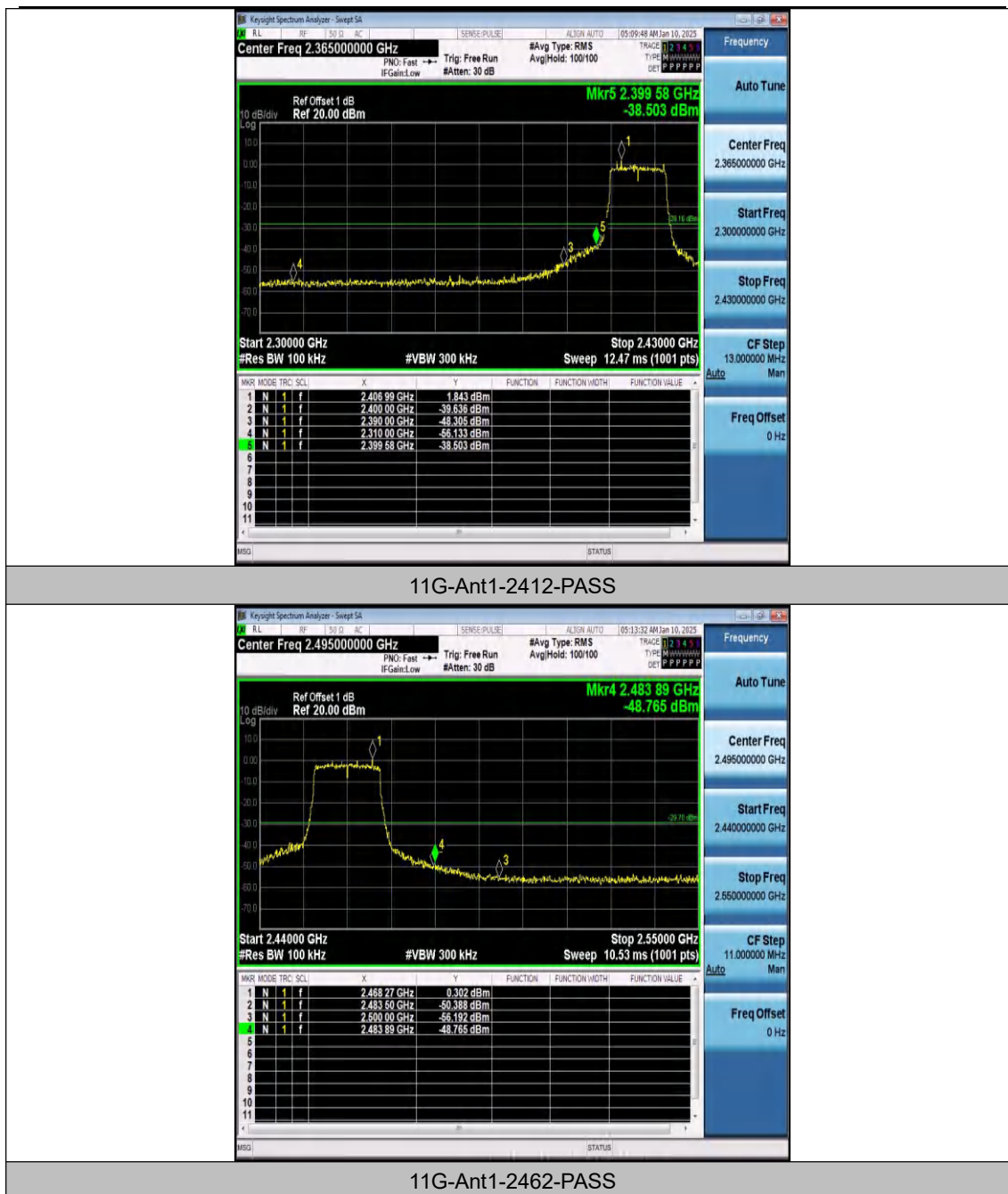
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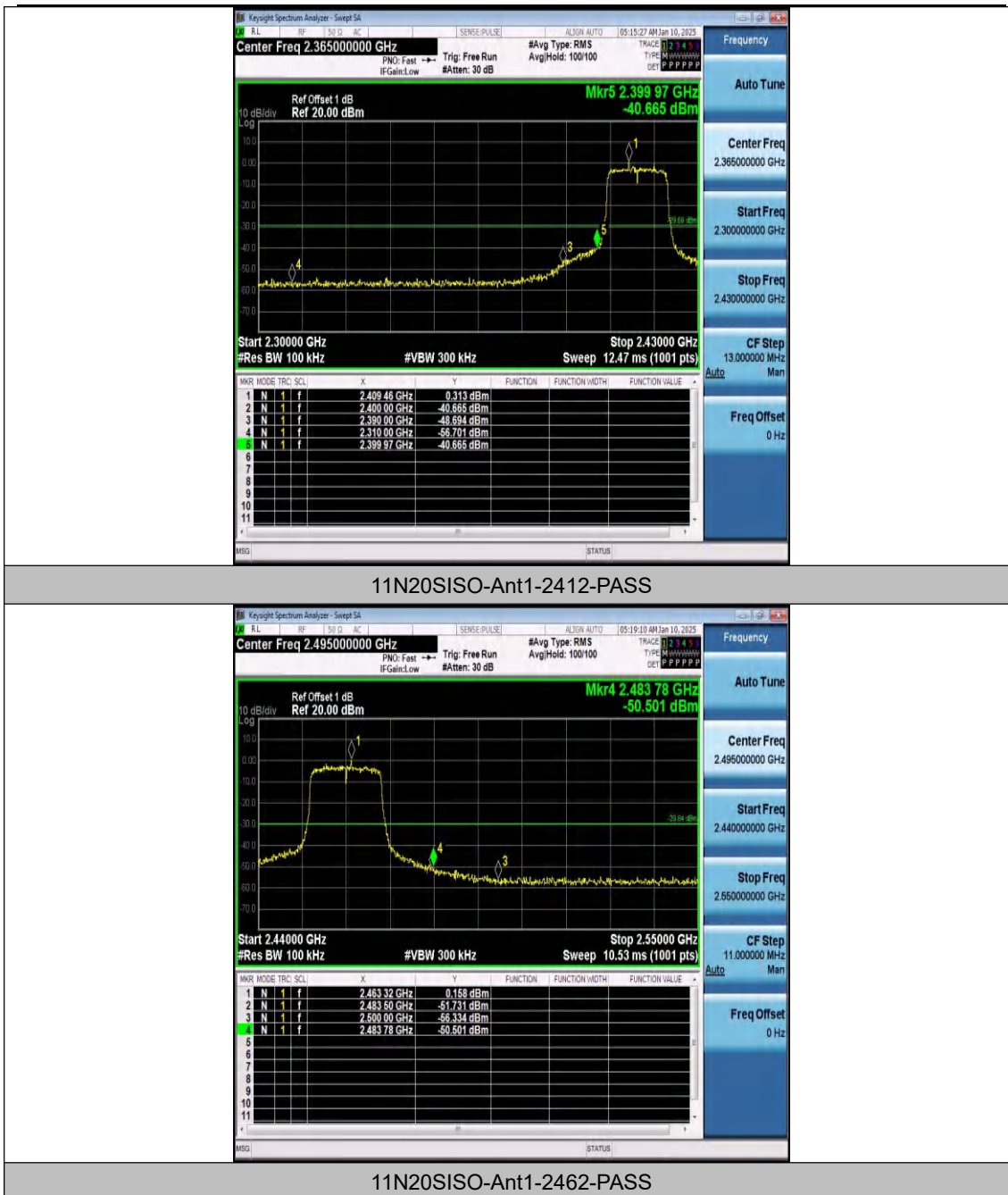
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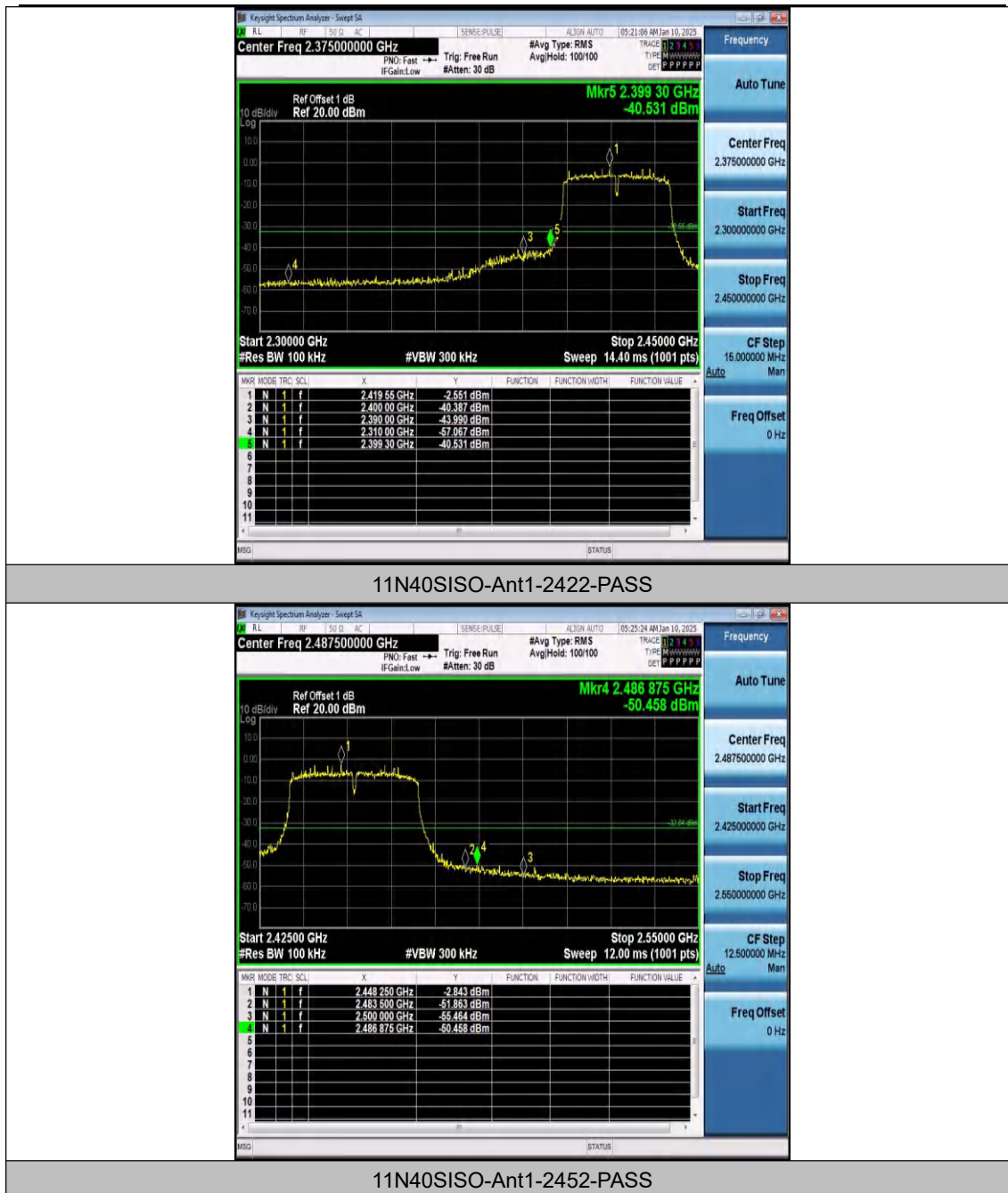


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Appendix F: Conducted Spurious Emission

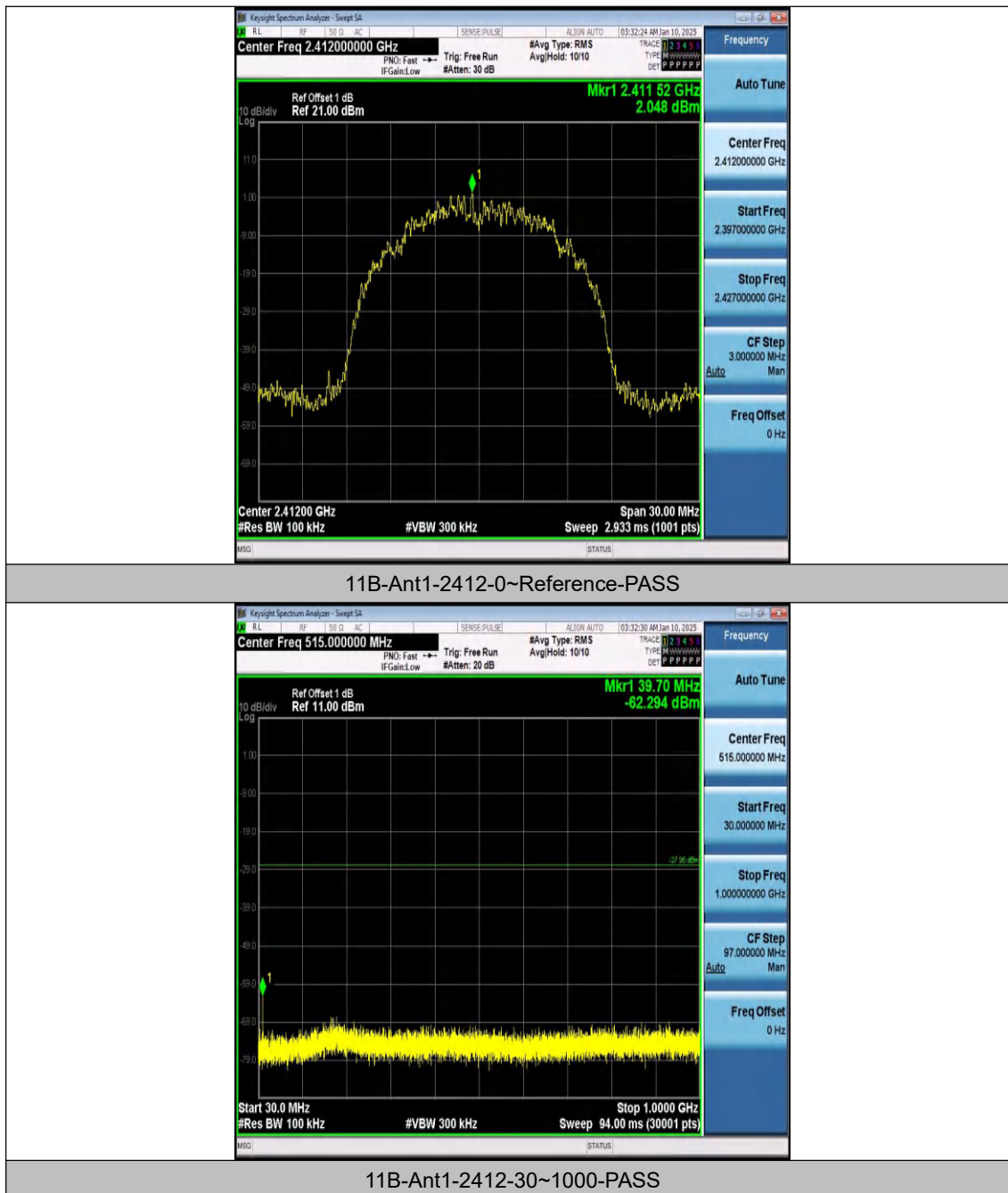
Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.05	2.05	---	PASS
11B	Ant1	2412	30~1000	2.05	-62.29	≤-27.95	PASS
11B	Ant1	2412	1000~26500	2.05	-53.17	≤-27.95	PASS
11B	Ant1	2437	0~Reference	1.02	1.02	---	PASS
11B	Ant1	2437	30~1000	1.02	-67.65	≤-28.98	PASS
11B	Ant1	2437	1000~26500	1.02	-53.3	≤-28.98	PASS
11B	Ant1	2462	0~Reference	1.32	1.32	---	PASS
11B	Ant1	2462	30~1000	1.32	-59.9	≤-28.68	PASS
11B	Ant1	2462	1000~26500	1.32	-54.09	≤-28.68	PASS
11G	Ant1	2412	0~Reference	-0.09	-0.09	---	PASS
11G	Ant1	2412	30~1000	-0.09	-63.56	≤-30.09	PASS
11G	Ant1	2412	1000~26500	-0.09	-53	≤-30.09	PASS
11G	Ant1	2437	0~Reference	-1.30	-1.30	---	PASS
11G	Ant1	2437	30~1000	-1.30	-64.06	≤-31.3	PASS
11G	Ant1	2437	1000~26500	-1.30	-53.14	≤-31.3	PASS
11G	Ant1	2462	0~Reference	-2.09	-2.09	---	PASS
11G	Ant1	2462	30~1000	-2.09	-61.75	≤-32.09	PASS
11G	Ant1	2462	1000~26500	-2.09	-52.61	≤-32.09	PASS
11N20SISO	Ant1	2412	0~Reference	-1.24	-1.24	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.24	-58.48	≤-31.24	PASS
11N20SISO	Ant1	2412	1000~26500	-1.24	-53.45	≤-31.24	PASS
11N20SISO	Ant1	2437	0~Reference	-0.85	-0.85	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.85	-59.43	≤-30.85	PASS
11N20SISO	Ant1	2437	1000~26500	-0.85	-53.79	≤-30.85	PASS
11N20SISO	Ant1	2462	0~Reference	-2.59	-2.59	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.59	-49.26	≤-32.59	PASS
11N20SISO	Ant1	2462	1000~26500	-2.59	-53.46	≤-32.59	PASS
11N40SISO	Ant1	2422	0~Reference	-5.81	-5.81	---	PASS
11N40SISO	Ant1	2422	30~1000	-5.81	-58.84	≤-35.81	PASS
11N40SISO	Ant1	2422	1000~26500	-5.81	-52.76	≤-35.81	PASS
11N40SISO	Ant1	2437	0~Reference	-4.31	-4.31	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.31	-59.58	≤-34.31	PASS
11N40SISO	Ant1	2437	1000~26500	-4.31	-53.46	≤-34.31	PASS
11N40SISO	Ant1	2452	0~Reference	-3.85	-3.85	---	PASS
11N40SISO	Ant1	2452	30~1000	-3.85	-57.71	≤-33.85	PASS
11N40SISO	Ant1	2452	1000~26500	-3.85	-54.18	≤-33.85	PASS

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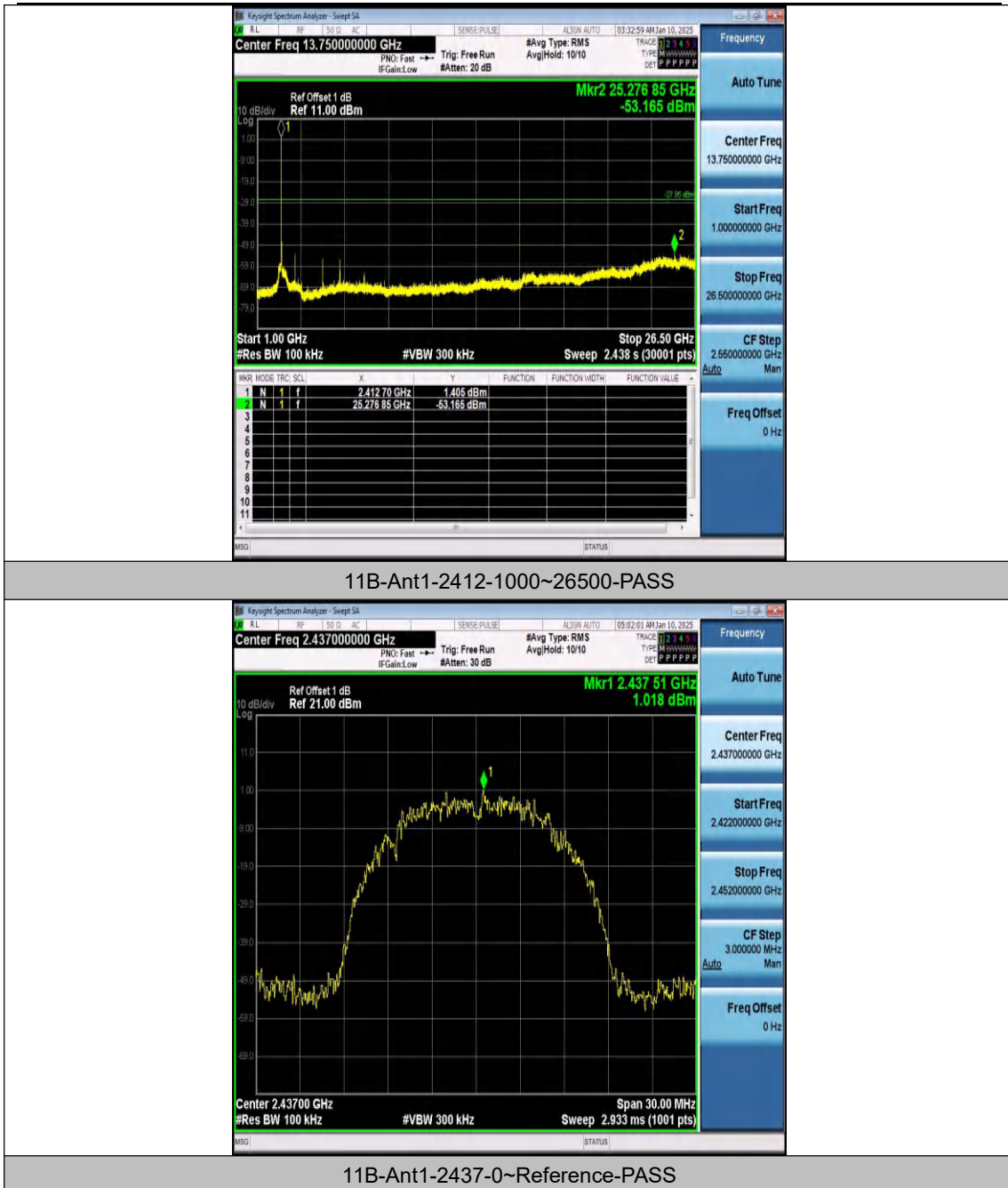
Test Graphs



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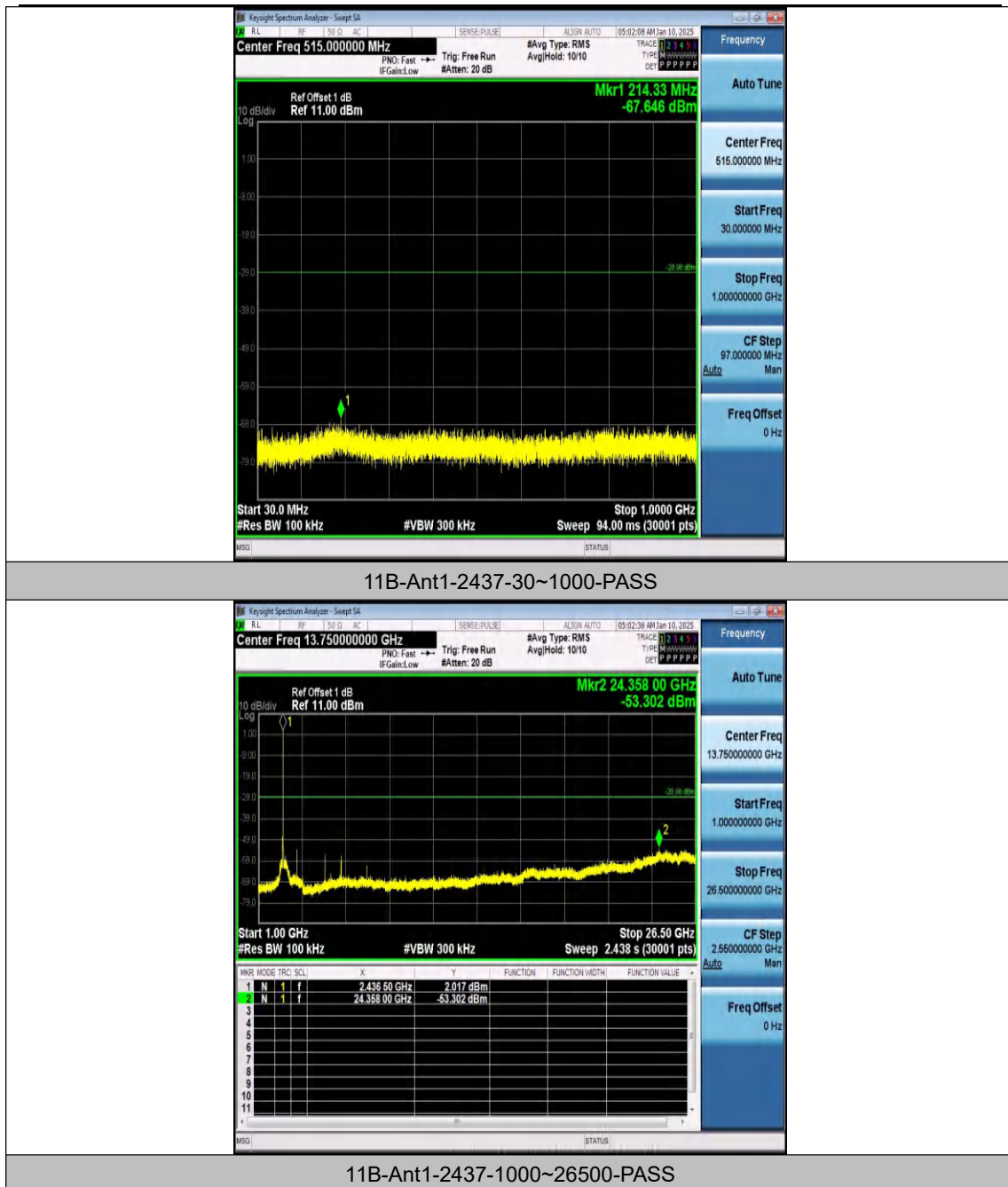
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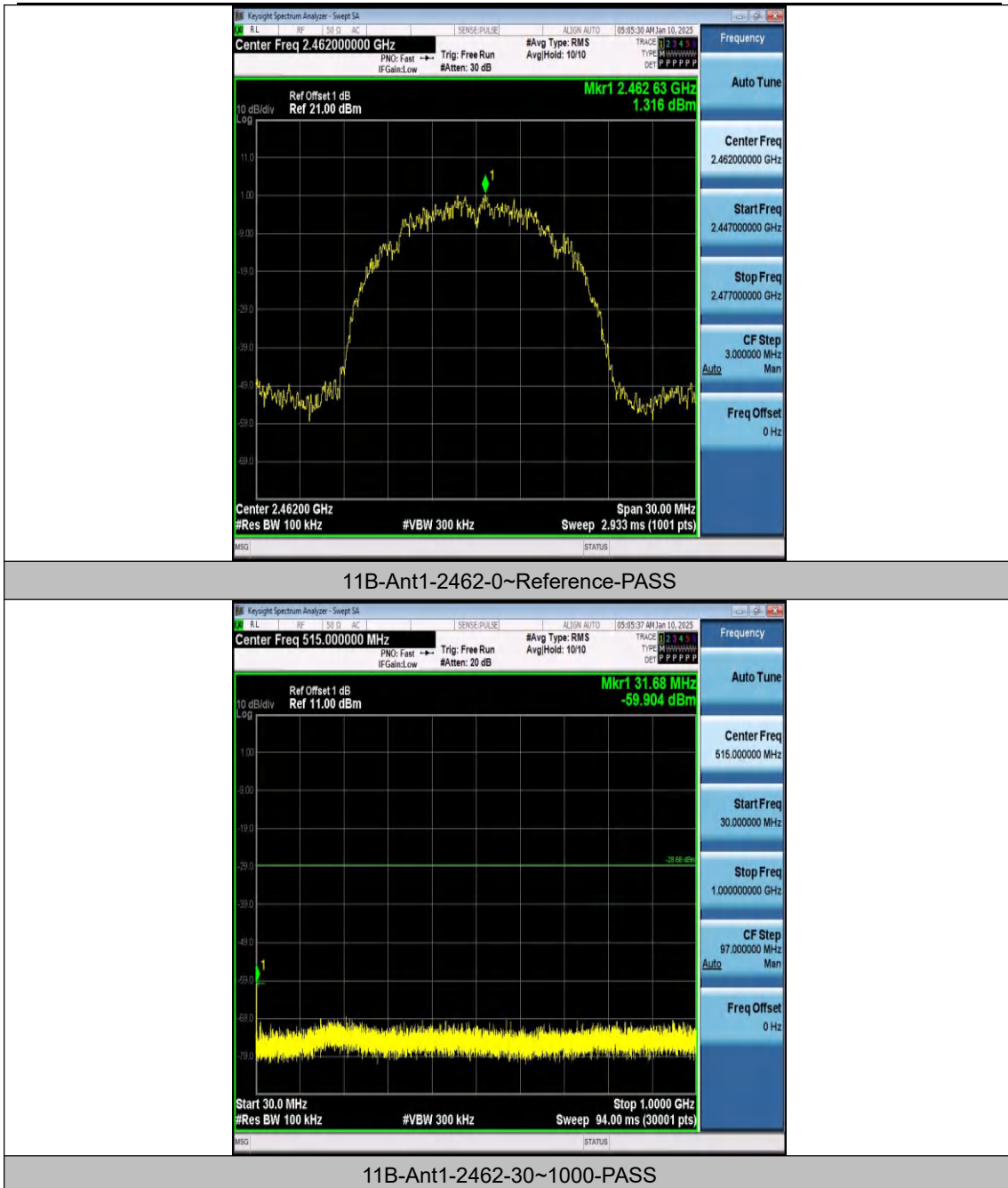


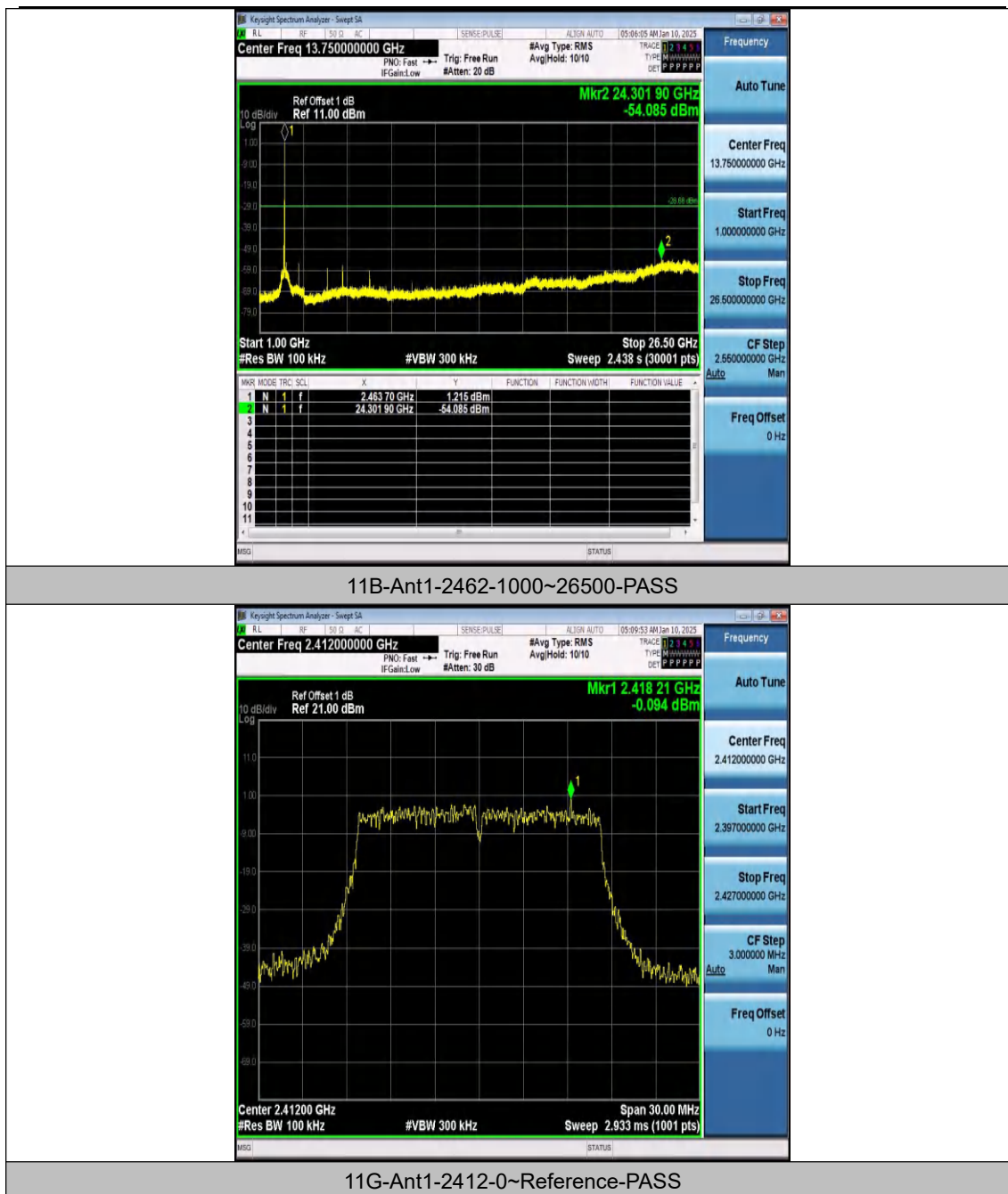
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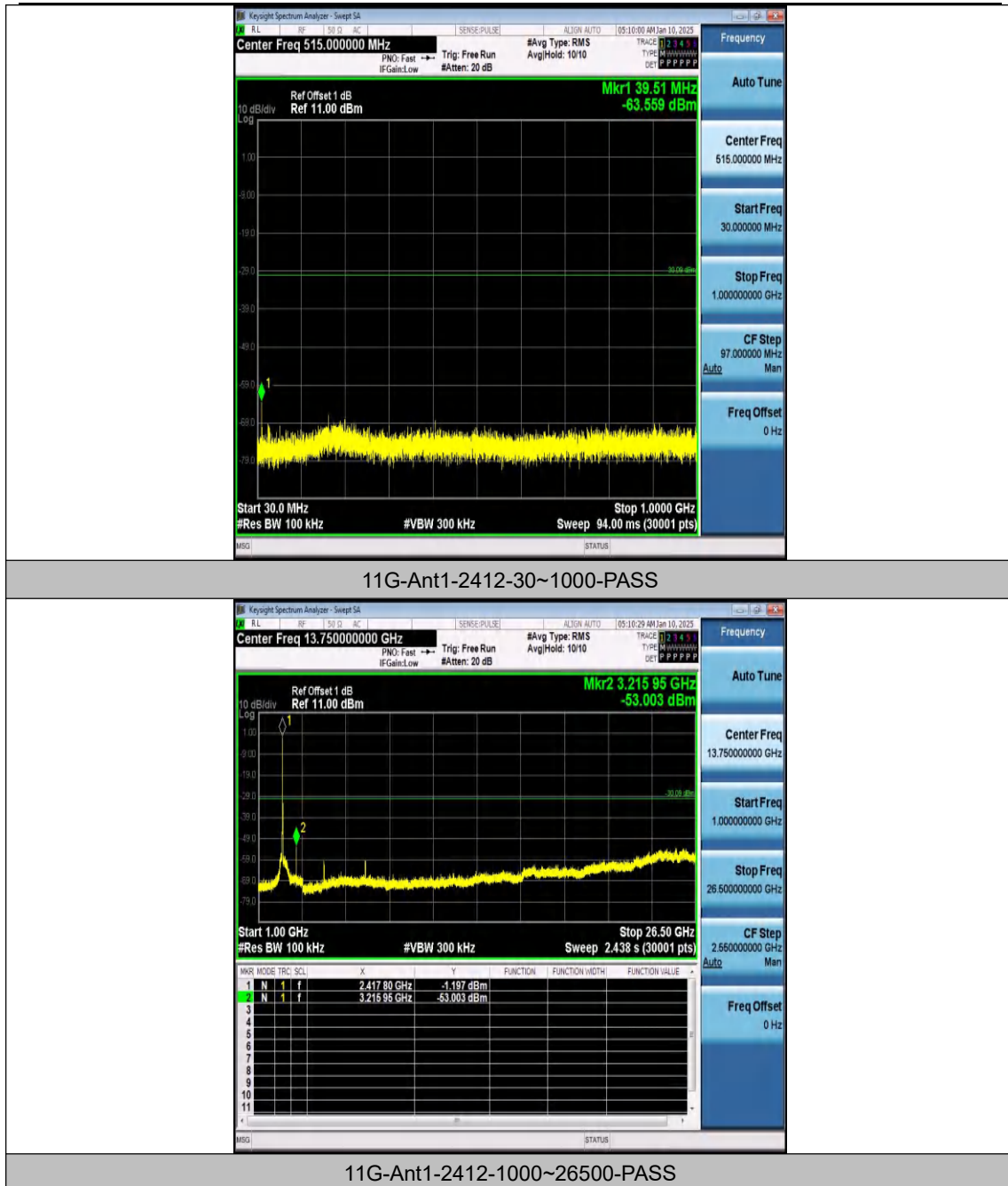


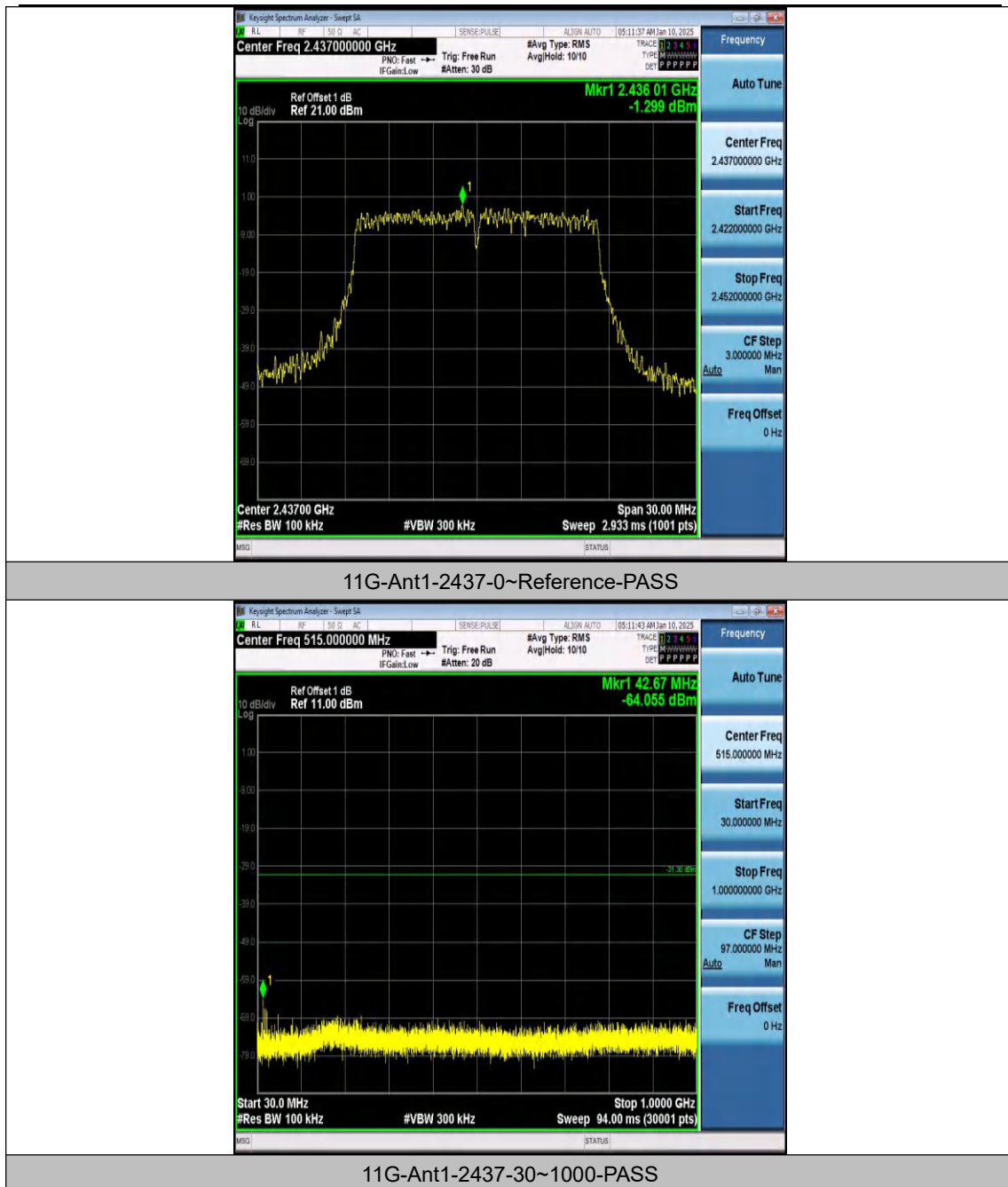
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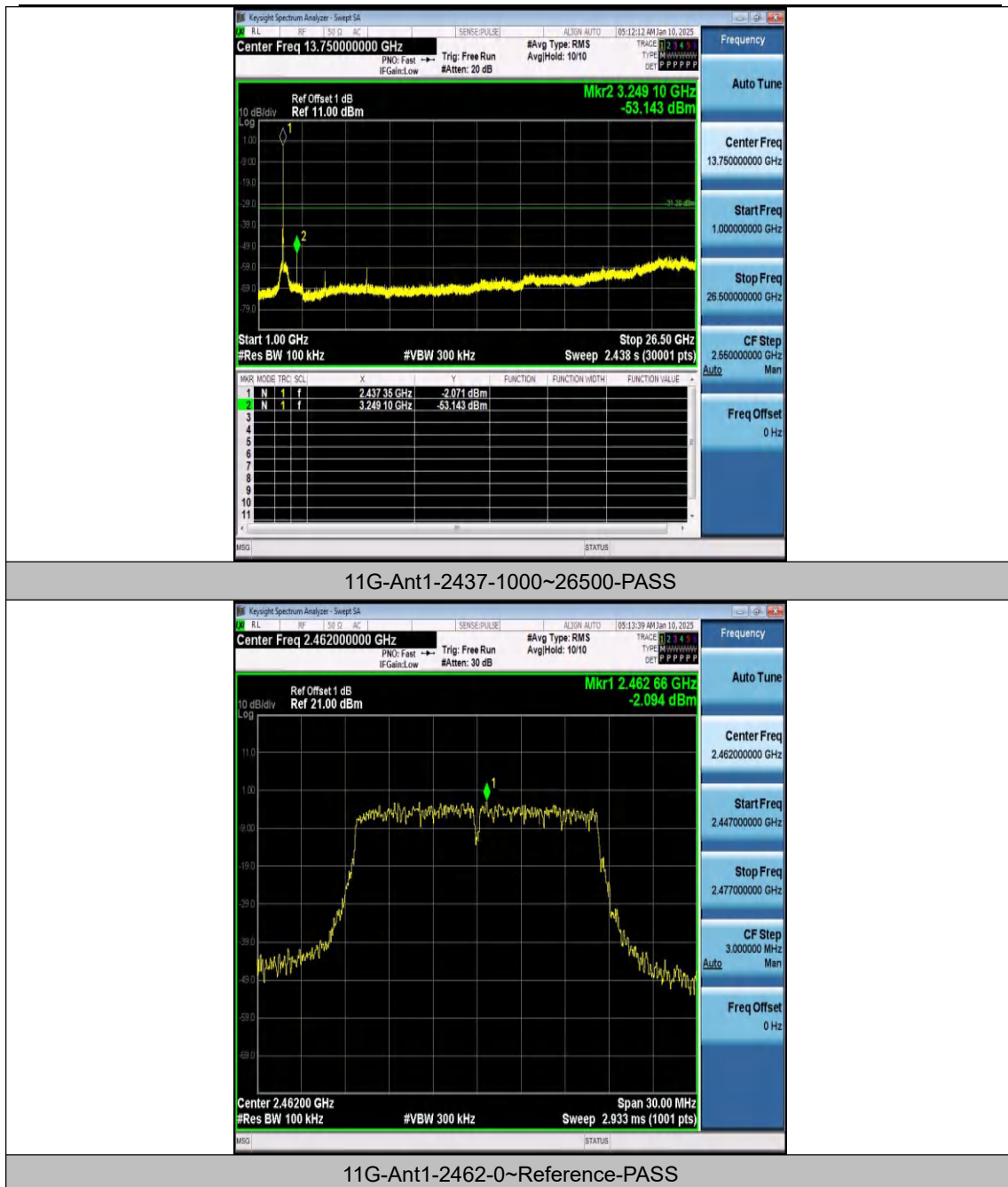
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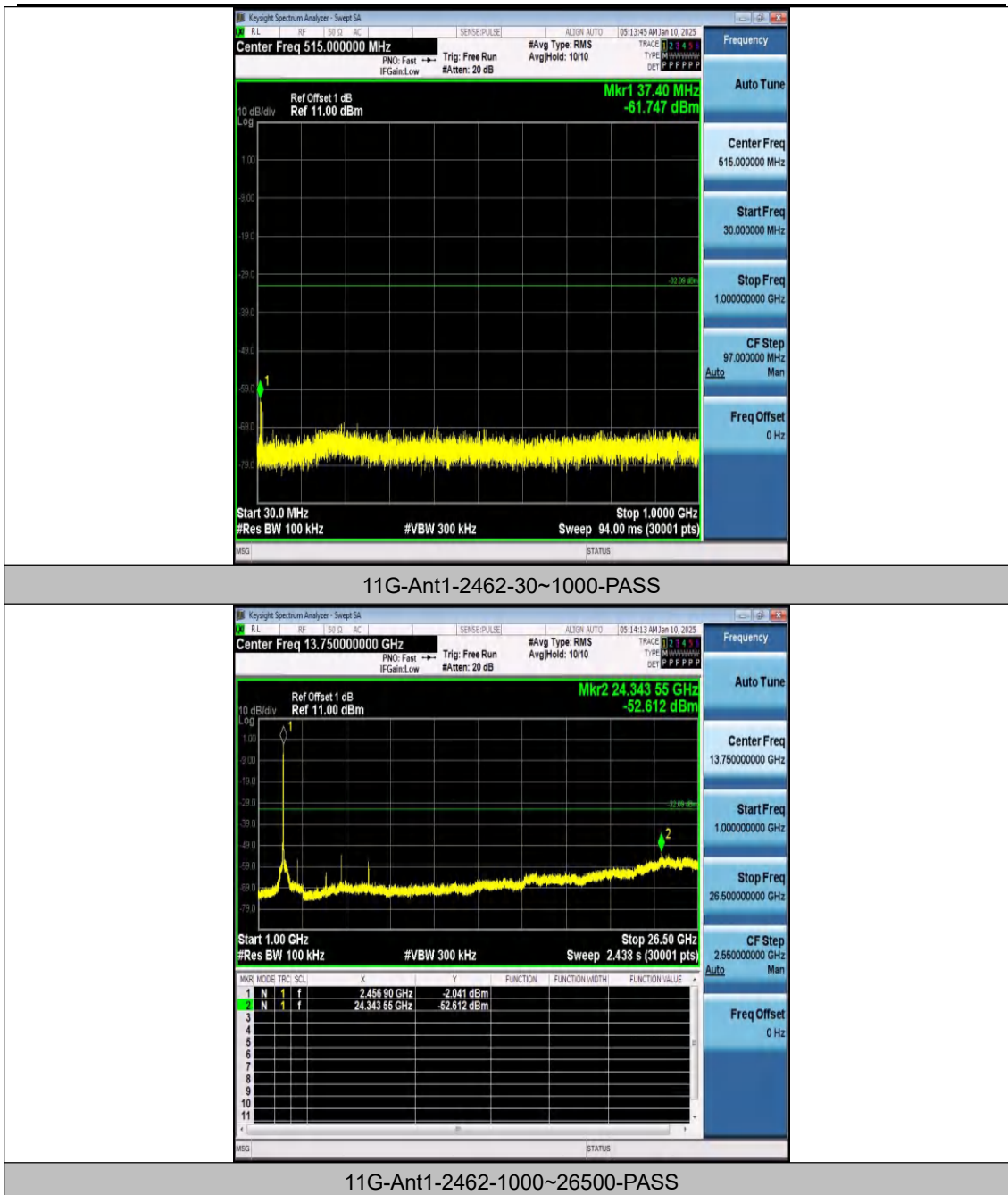


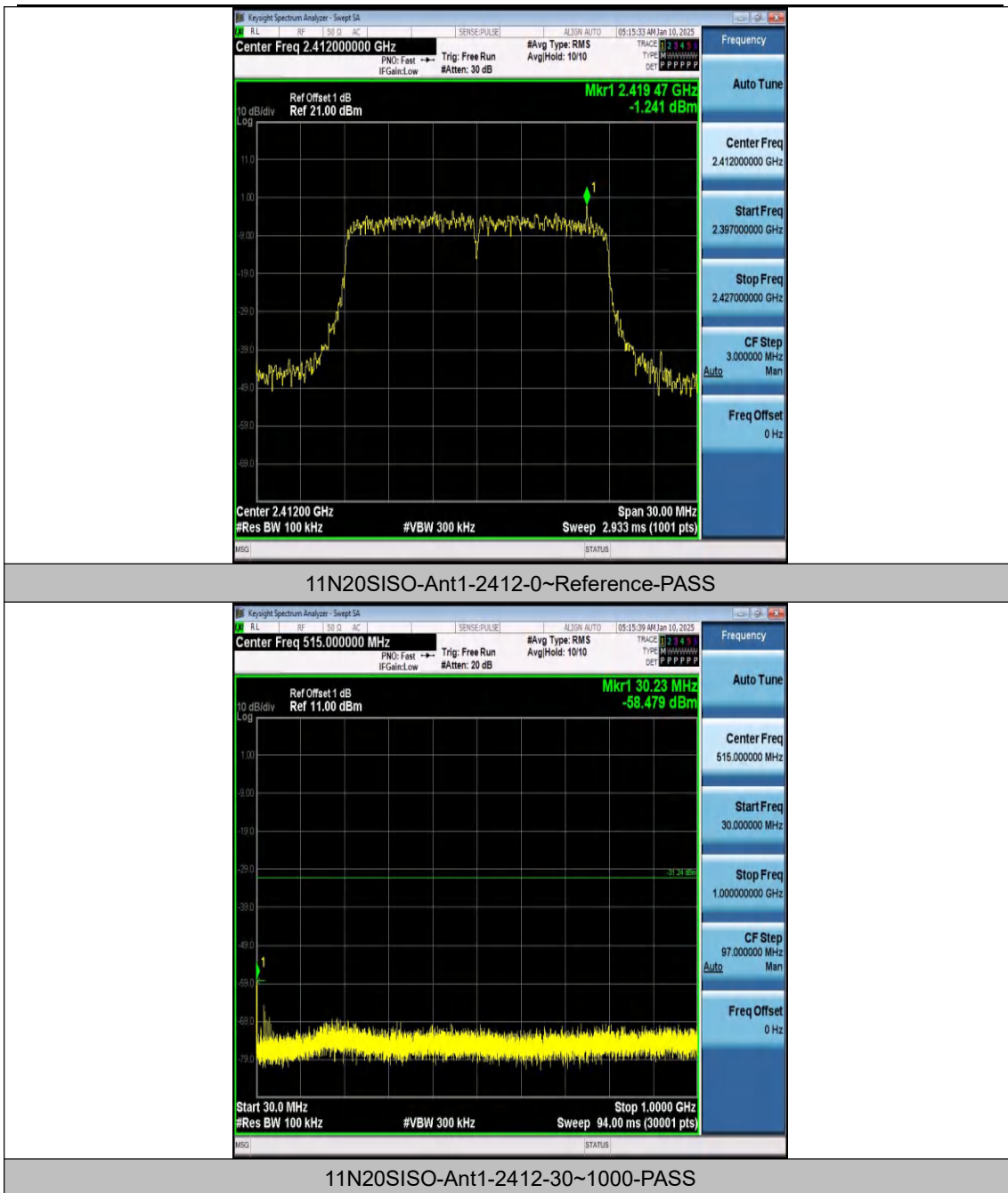
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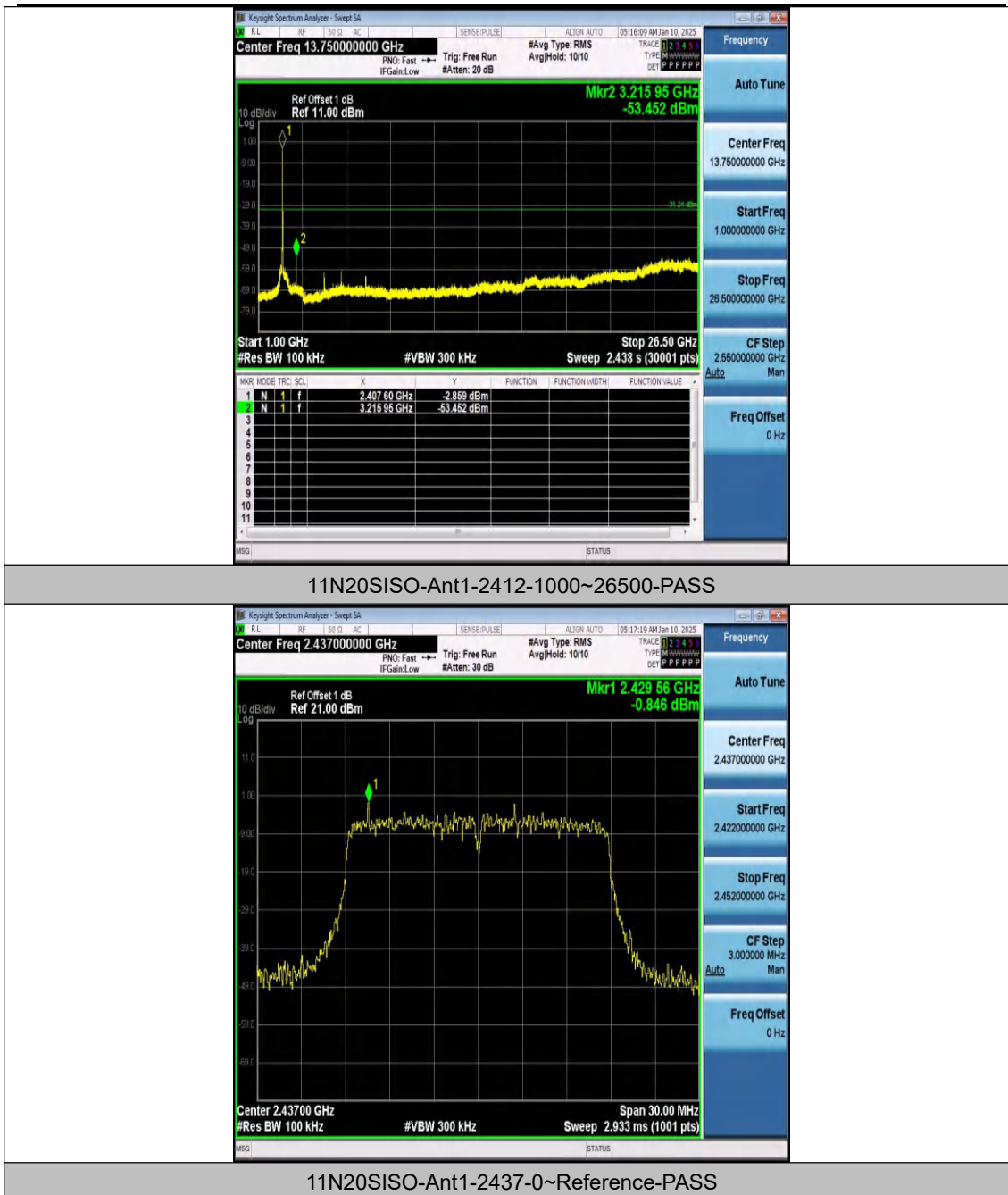








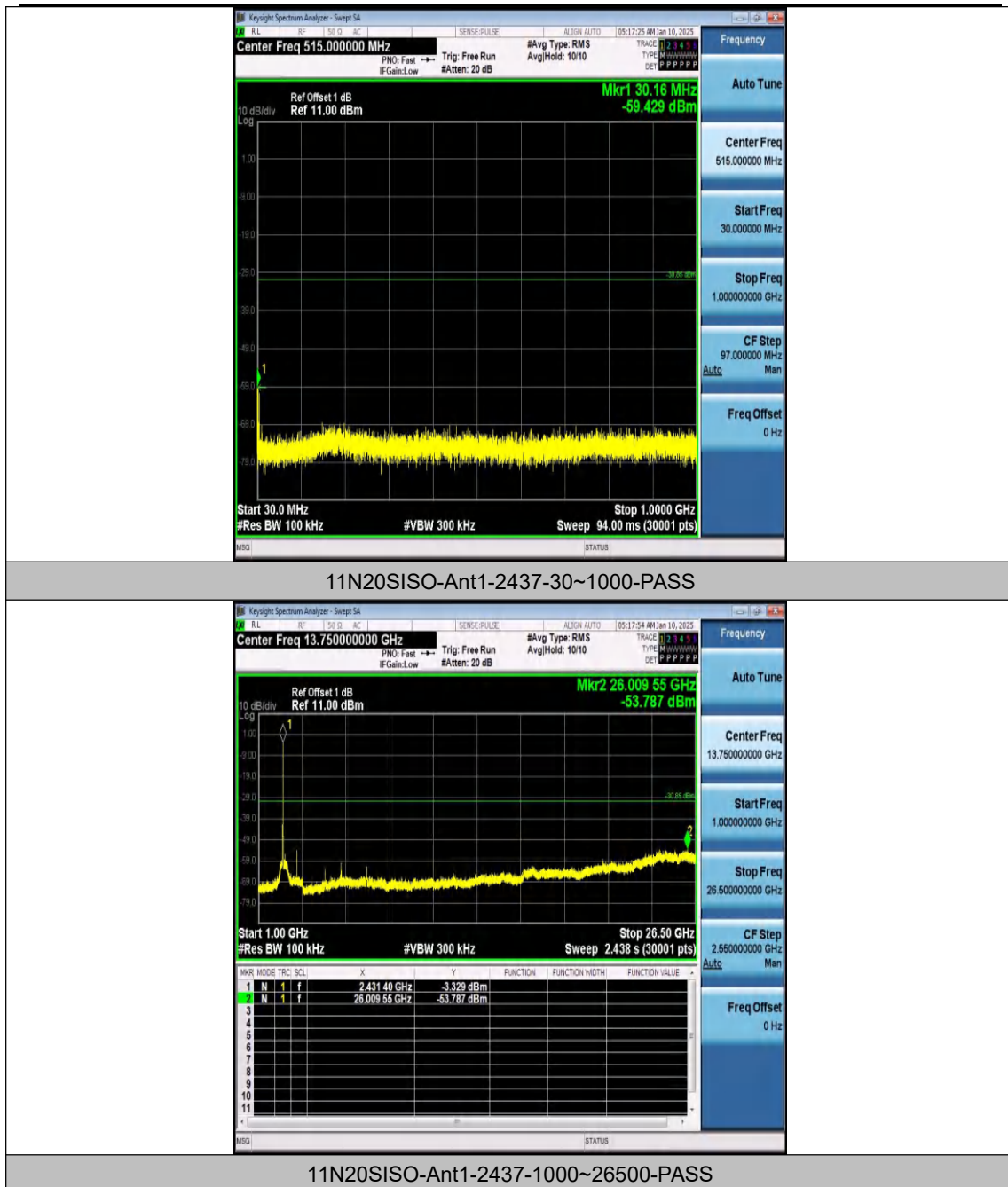


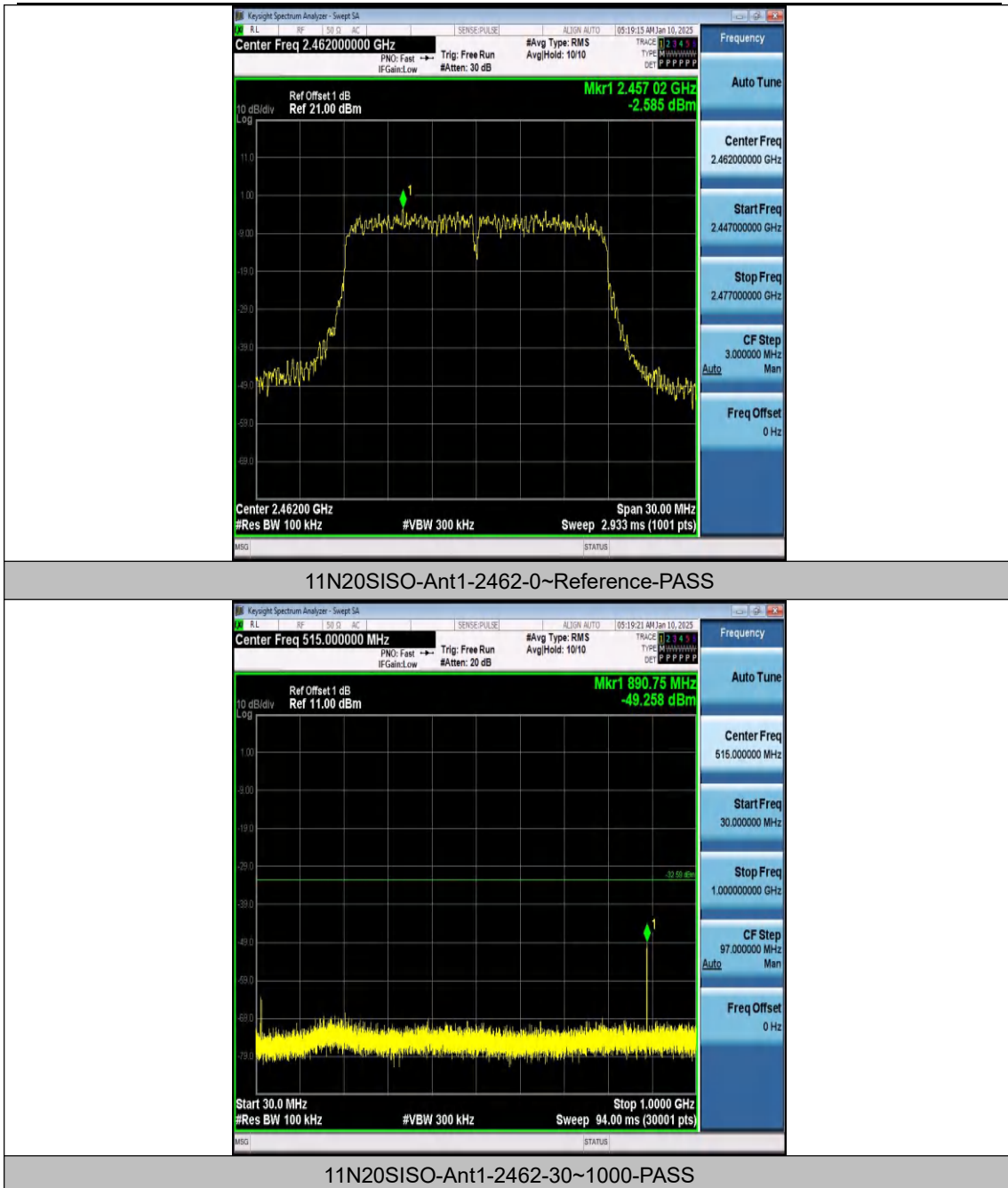


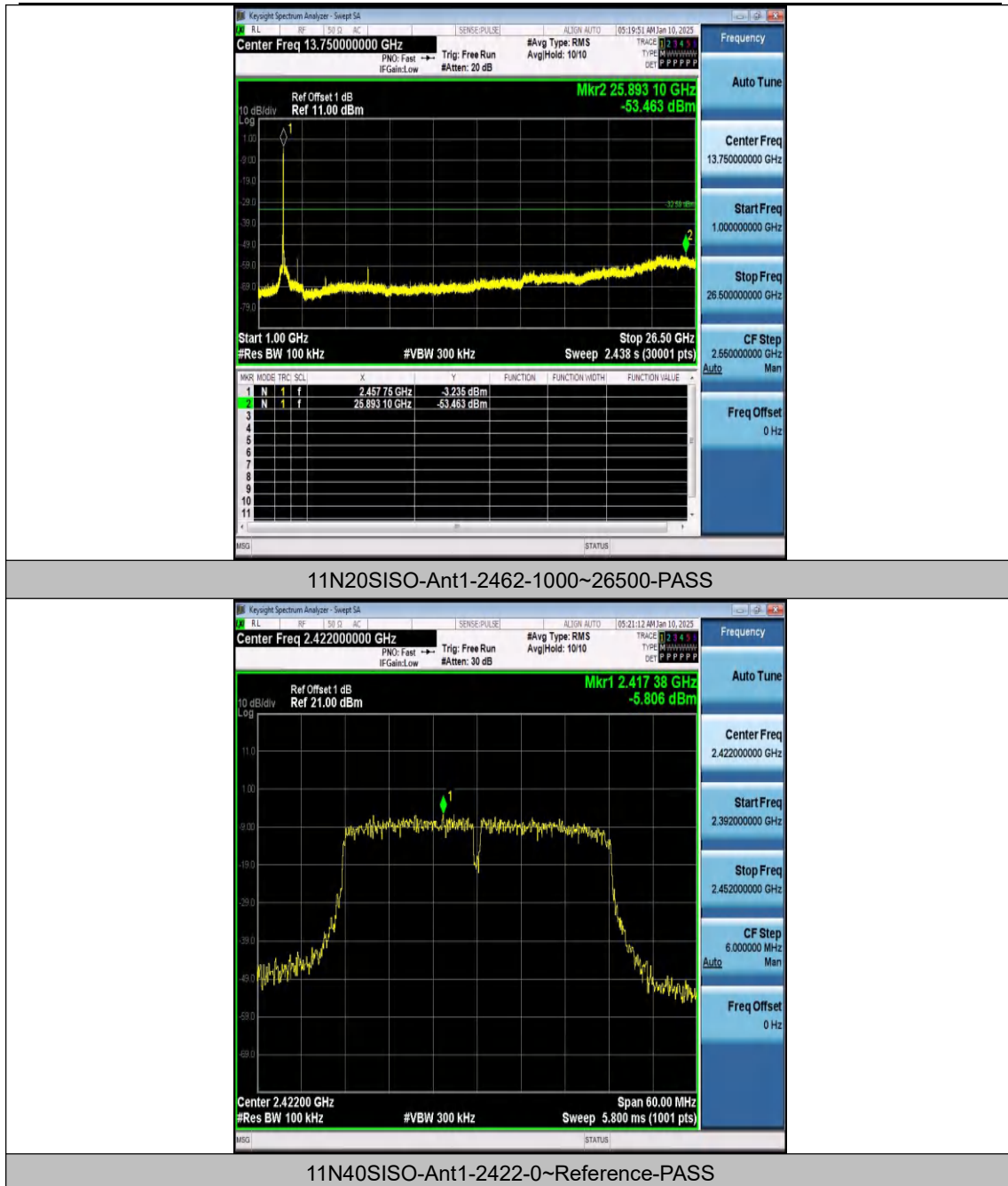
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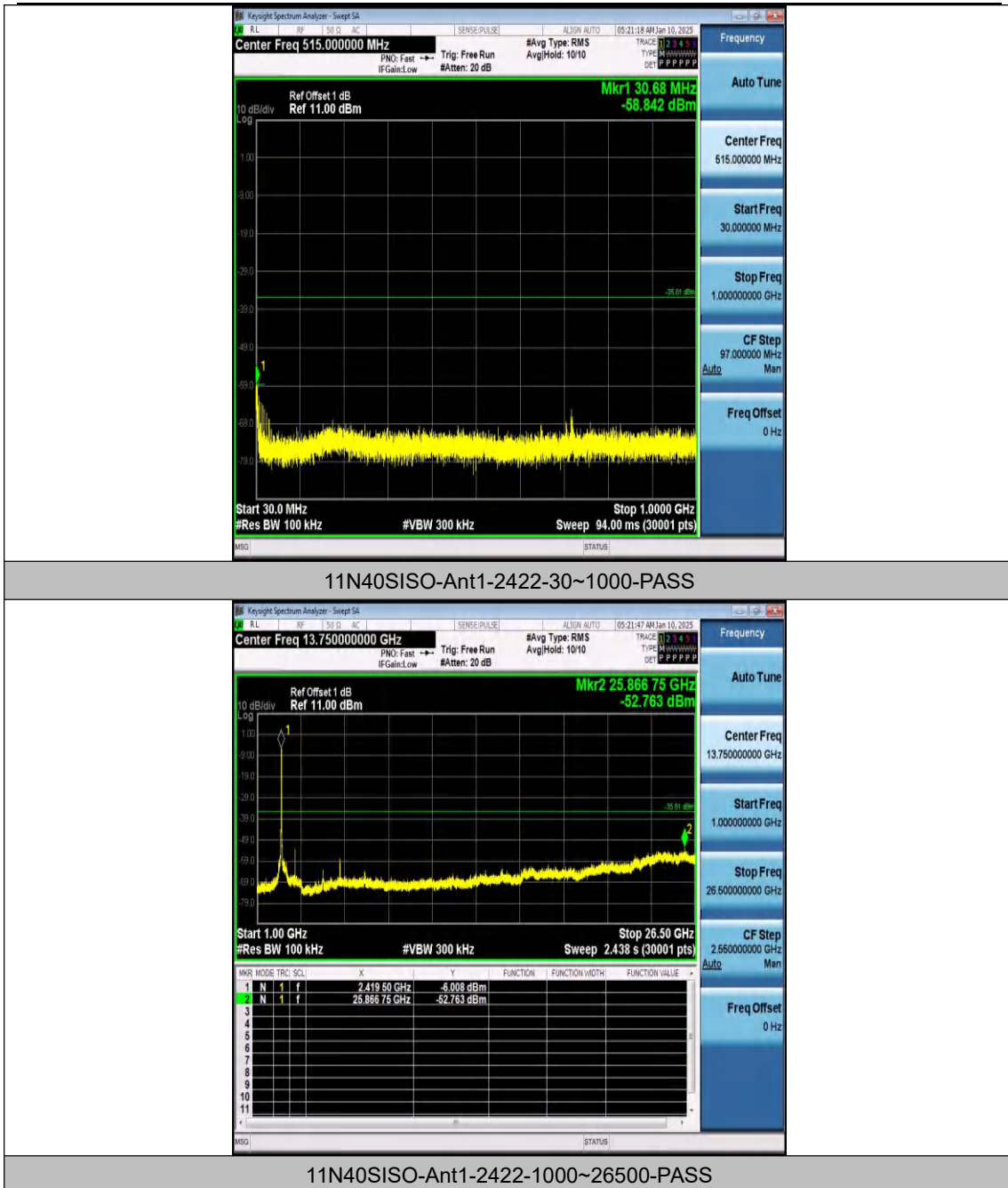
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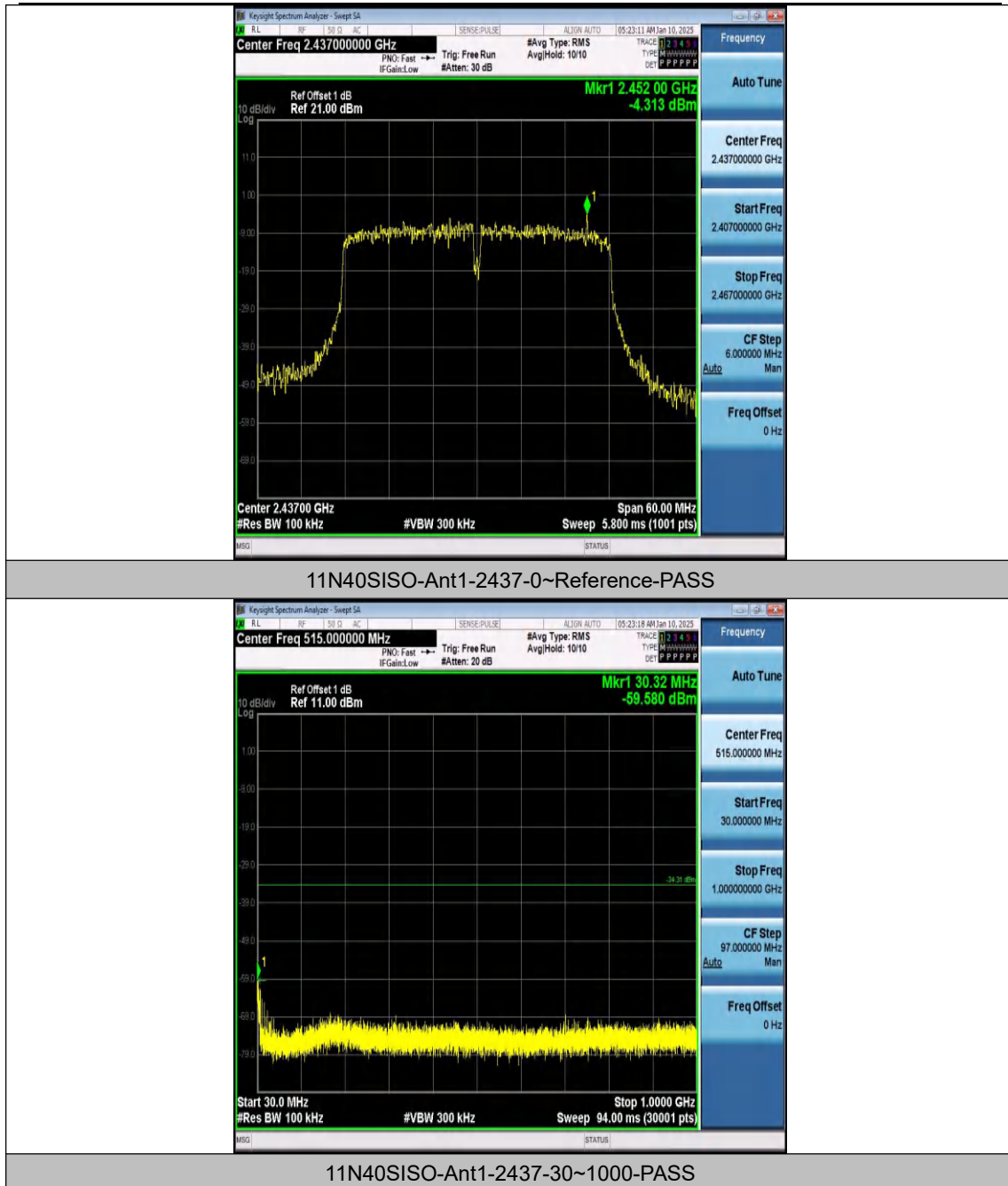
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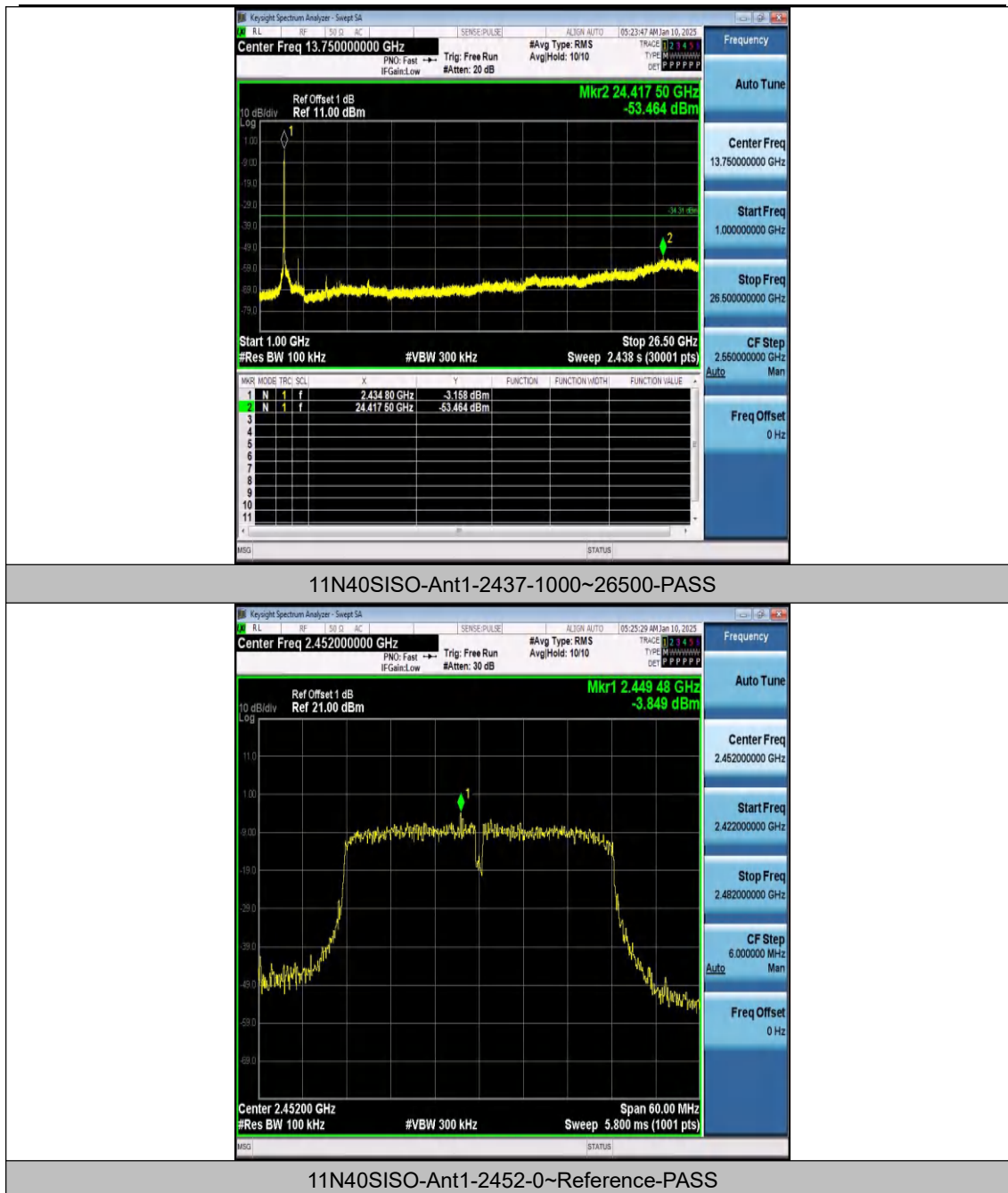


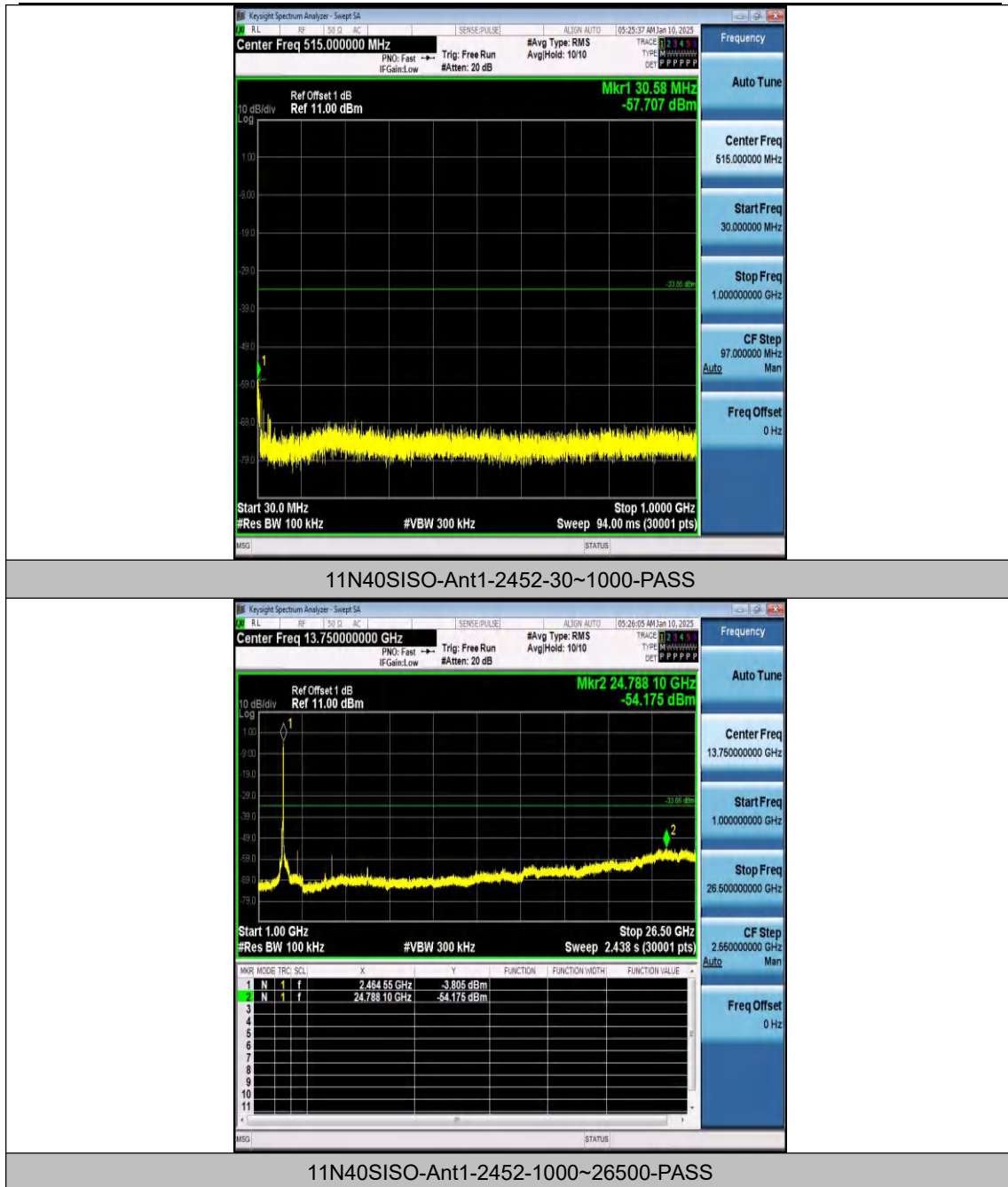












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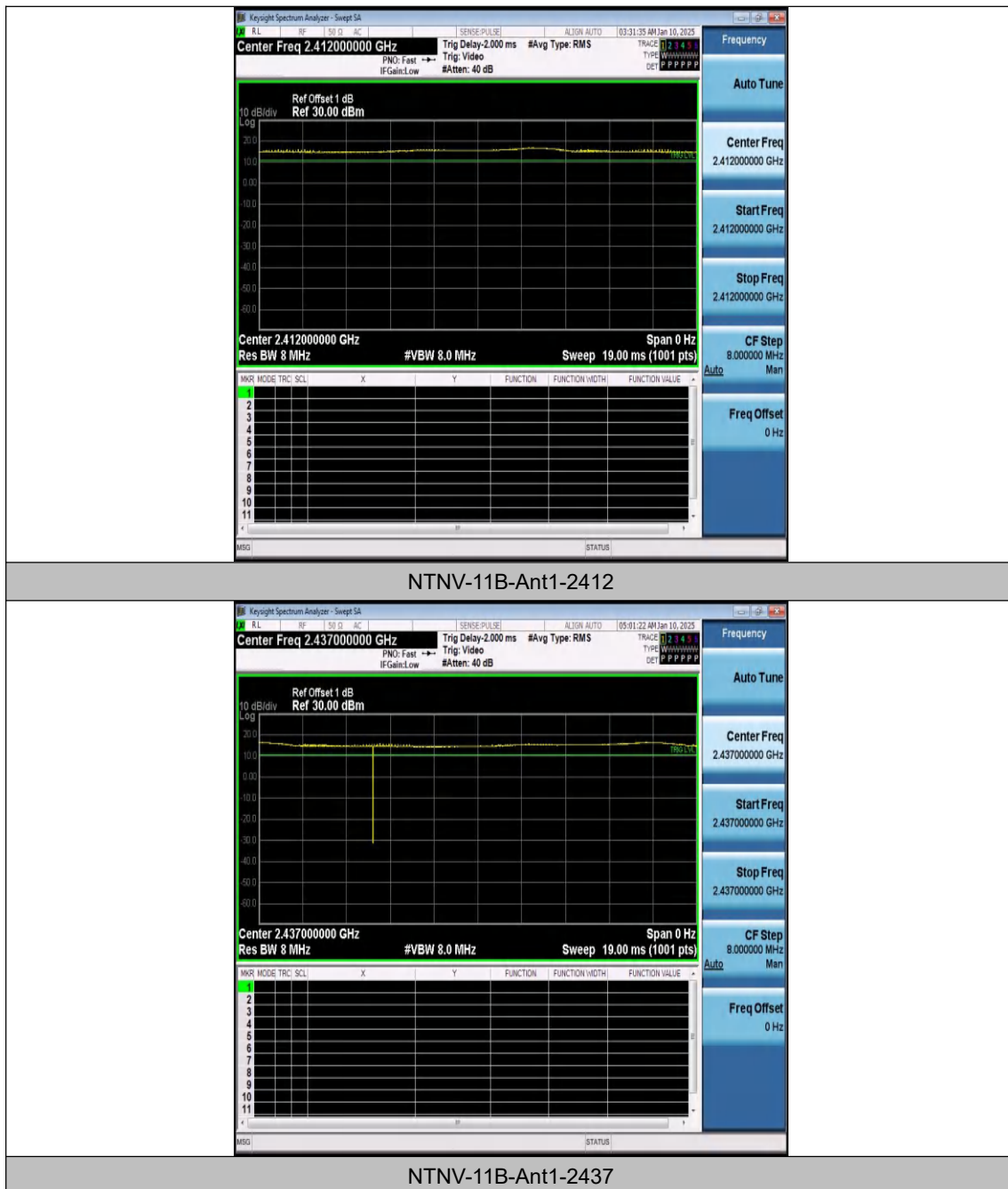
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	19.00	19.00	100.00	0.00
11B	Ant1	2437	17.00	17.00	100.00	0.00
11B	Ant1	2462	11.00	11.00	100.00	0.00
11G	Ant1	2412	5.48	5.51	99.46	0.02
11G	Ant1	2437	5.49	5.51	99.64	0.02
11G	Ant1	2462	5.48	5.52	99.28	0.03
11N20SISO	Ant1	2412	5.08	5.10	99.61	0.02
11N20SISO	Ant1	2437	5.08	5.10	99.61	0.02
11N20SISO	Ant1	2462	5.09	5.10	99.80	0.01
11N40SISO	Ant1	2422	2.47	2.49	99.20	0.03
11N40SISO	Ant1	2437	2.47	2.49	99.20	0.03
11N40SISO	Ant1	2452	2.46	2.49	98.80	0.05

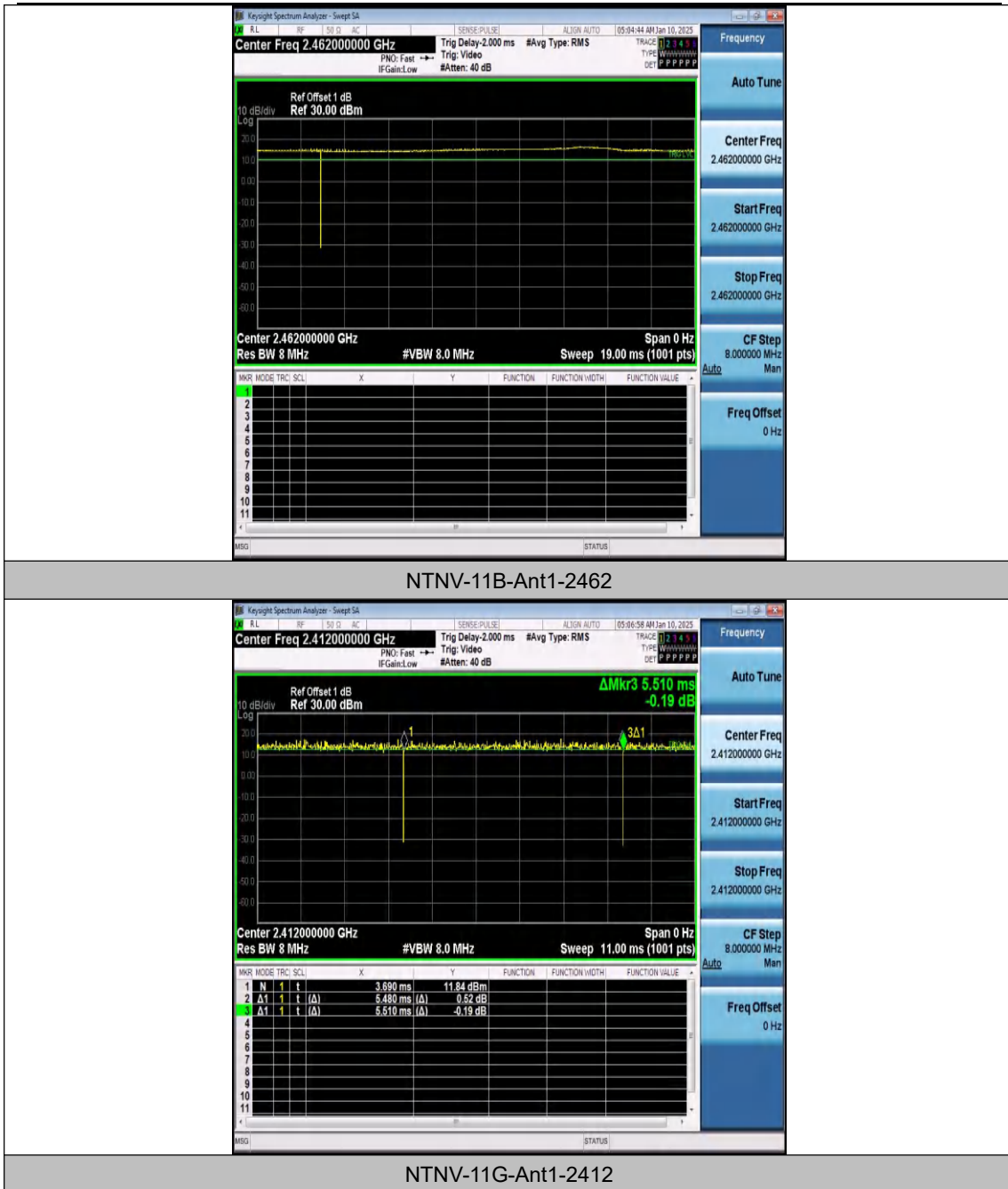
Test Graphs

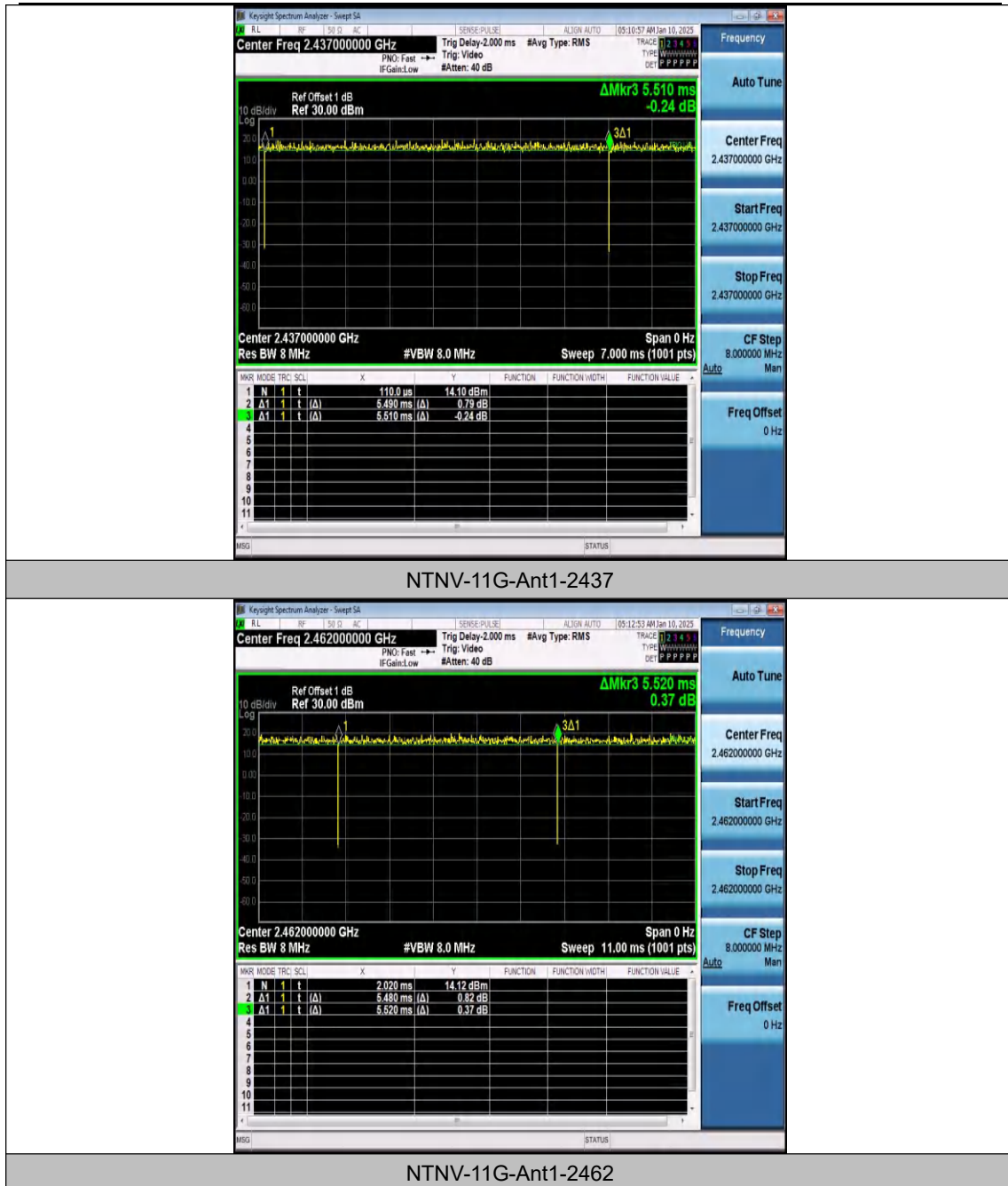


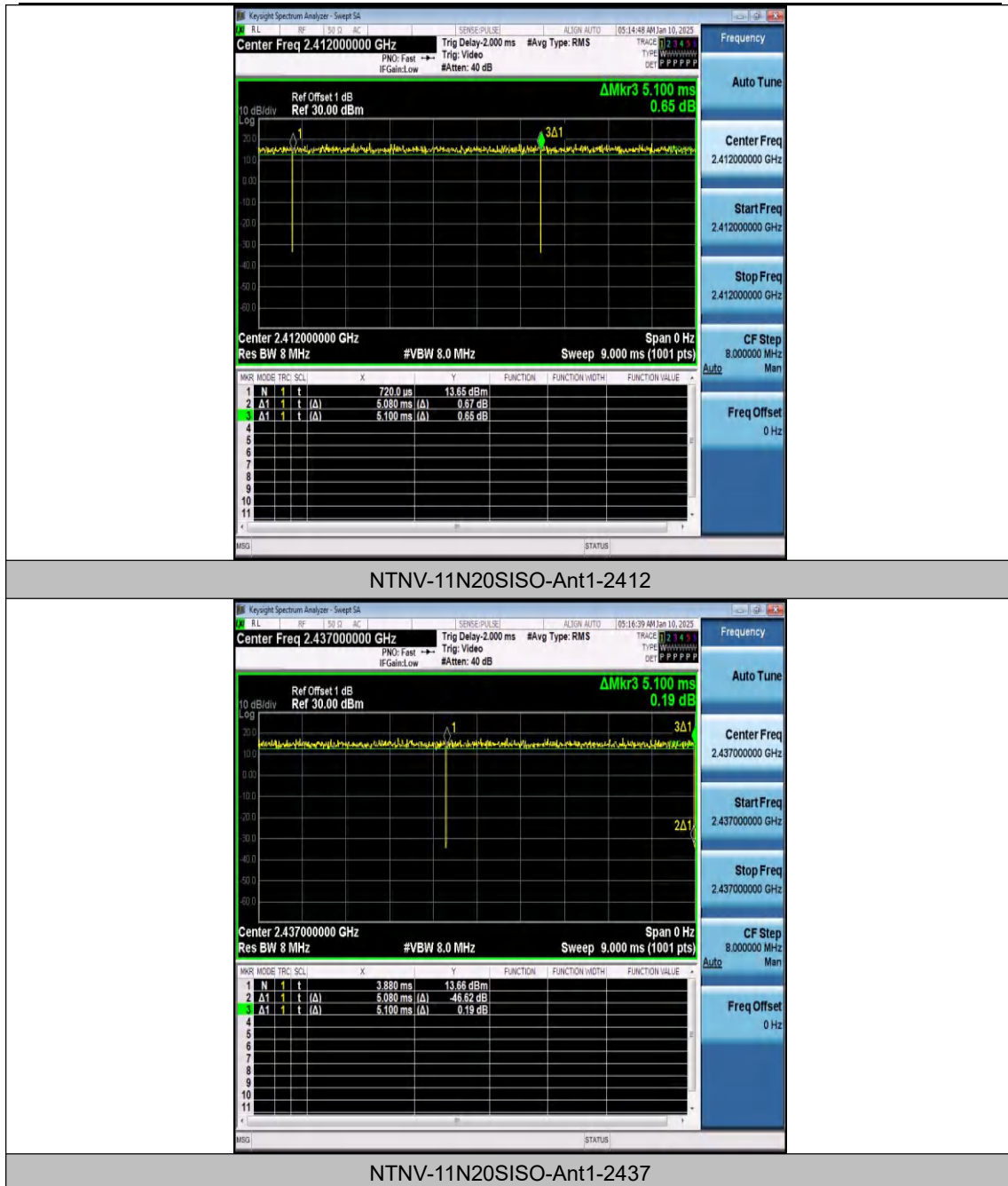
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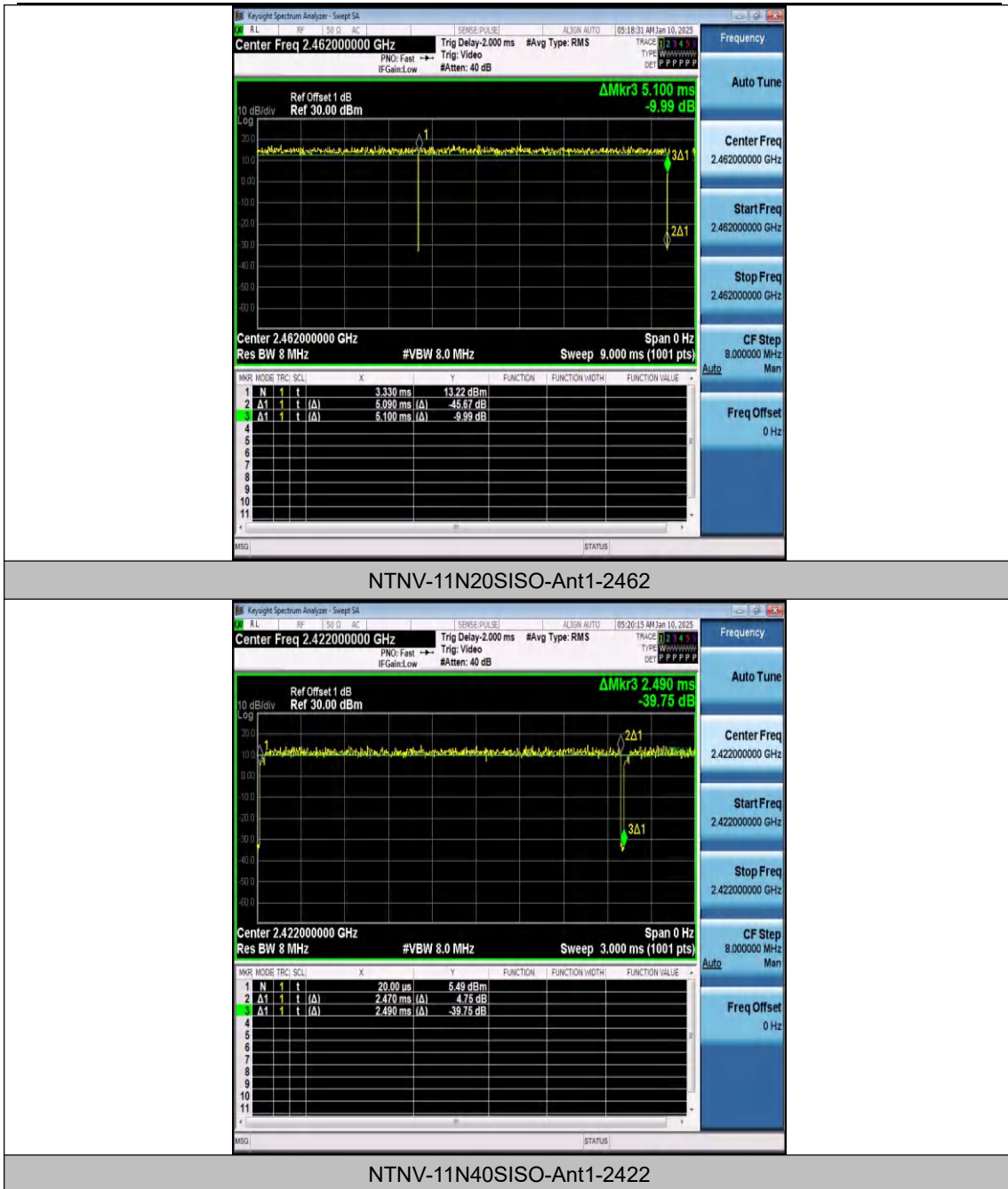
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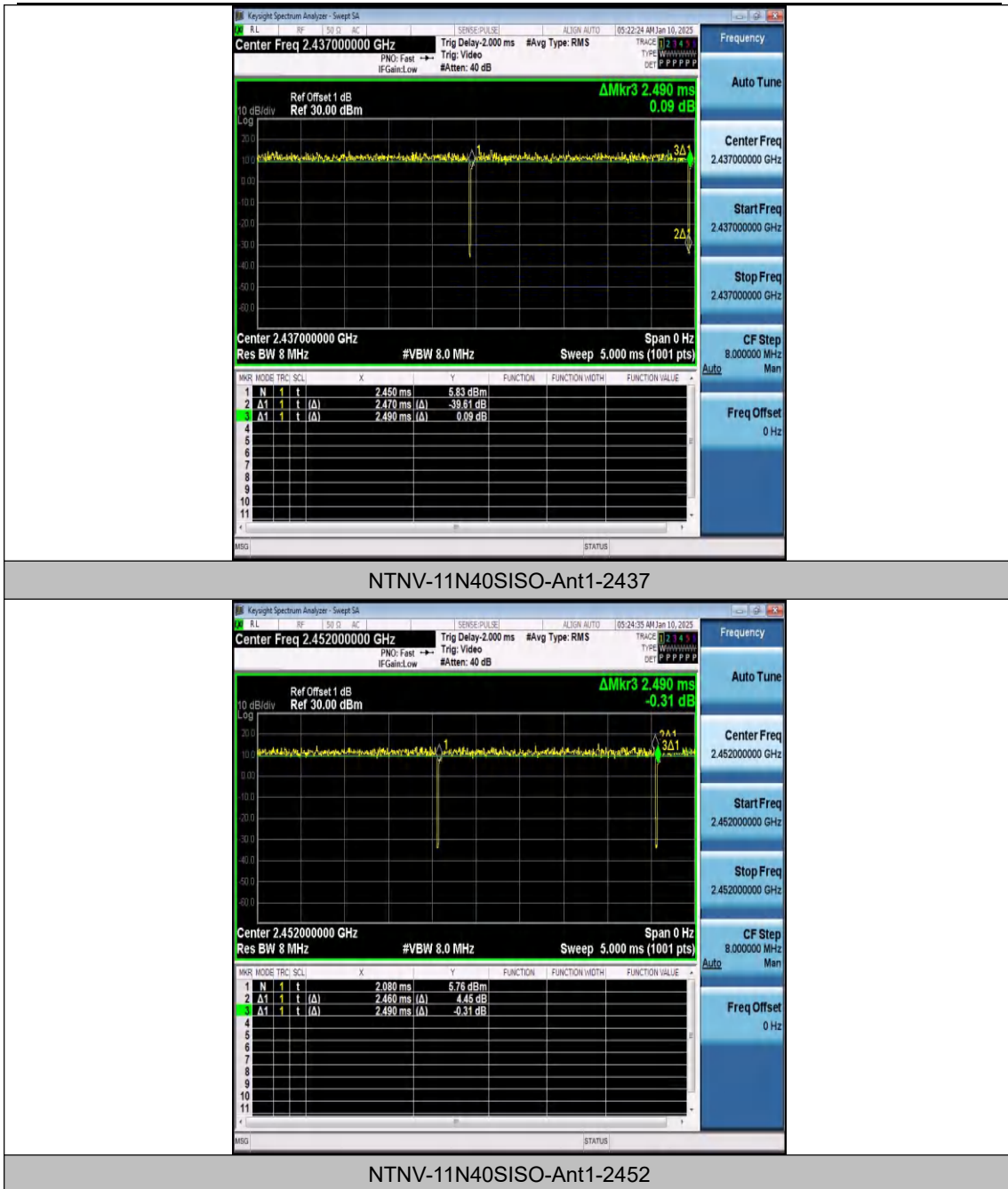
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