

Appendix Test Data

Report No.:	1814C50133612502	Test Sample No.:	1-2-2
Start Test Date:	2025-05-09	Finish Test Date:	2025-05-09
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.5°C	Relative Humidity:	52%
Pressure:	101kPa		

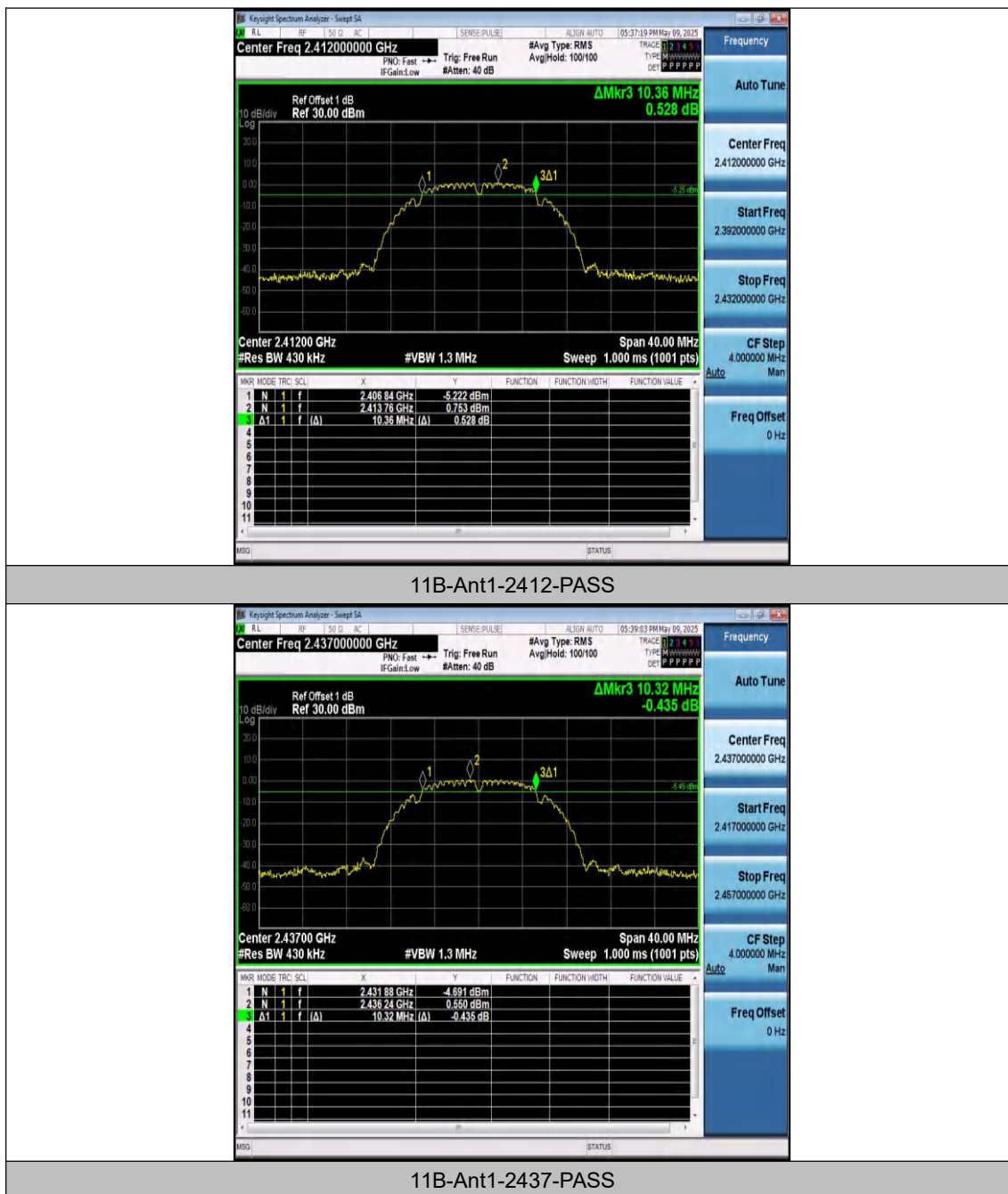
Appendix A: 6dB Bandwidth

Test Result

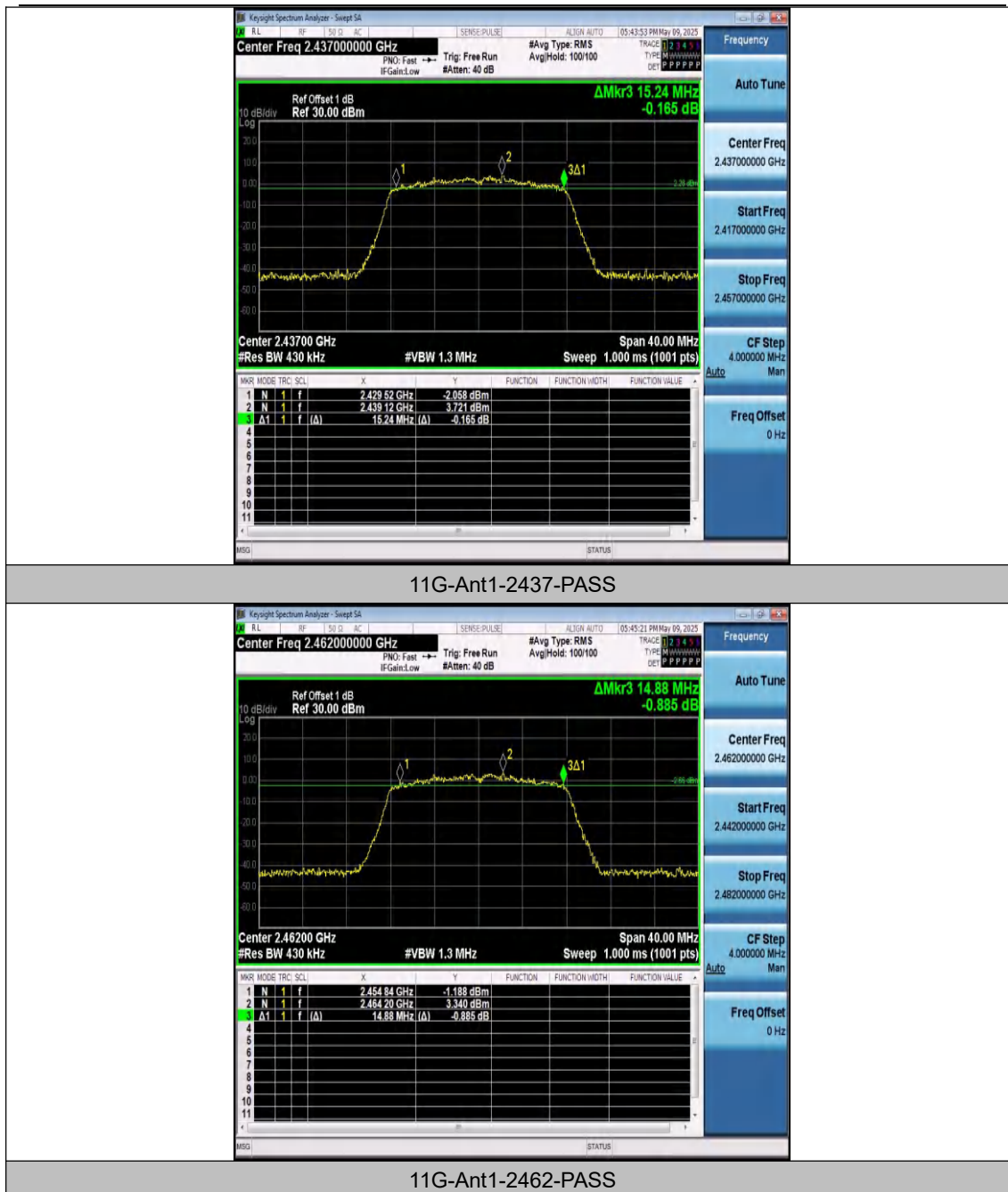
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.360	2406.840	2417.200	0.5	PASS
11B	Ant1	2437	10.320	2431.880	2442.200	0.5	PASS
11B	Ant1	2462	10.360	2456.840	2467.200	0.5	PASS
11G	Ant1	2412	14.920	2404.520	2419.440	0.5	PASS
11G	Ant1	2437	15.240	2429.520	2444.760	0.5	PASS
11G	Ant1	2462	14.880	2454.840	2469.720	0.5	PASS
11N20SISO	Ant1	2412	15.880	2403.920	2419.800	0.5	PASS
11N20SISO	Ant1	2437	16.120	2428.920	2445.040	0.5	PASS
11N20SISO	Ant1	2462	16.120	2453.960	2470.080	0.5	PASS

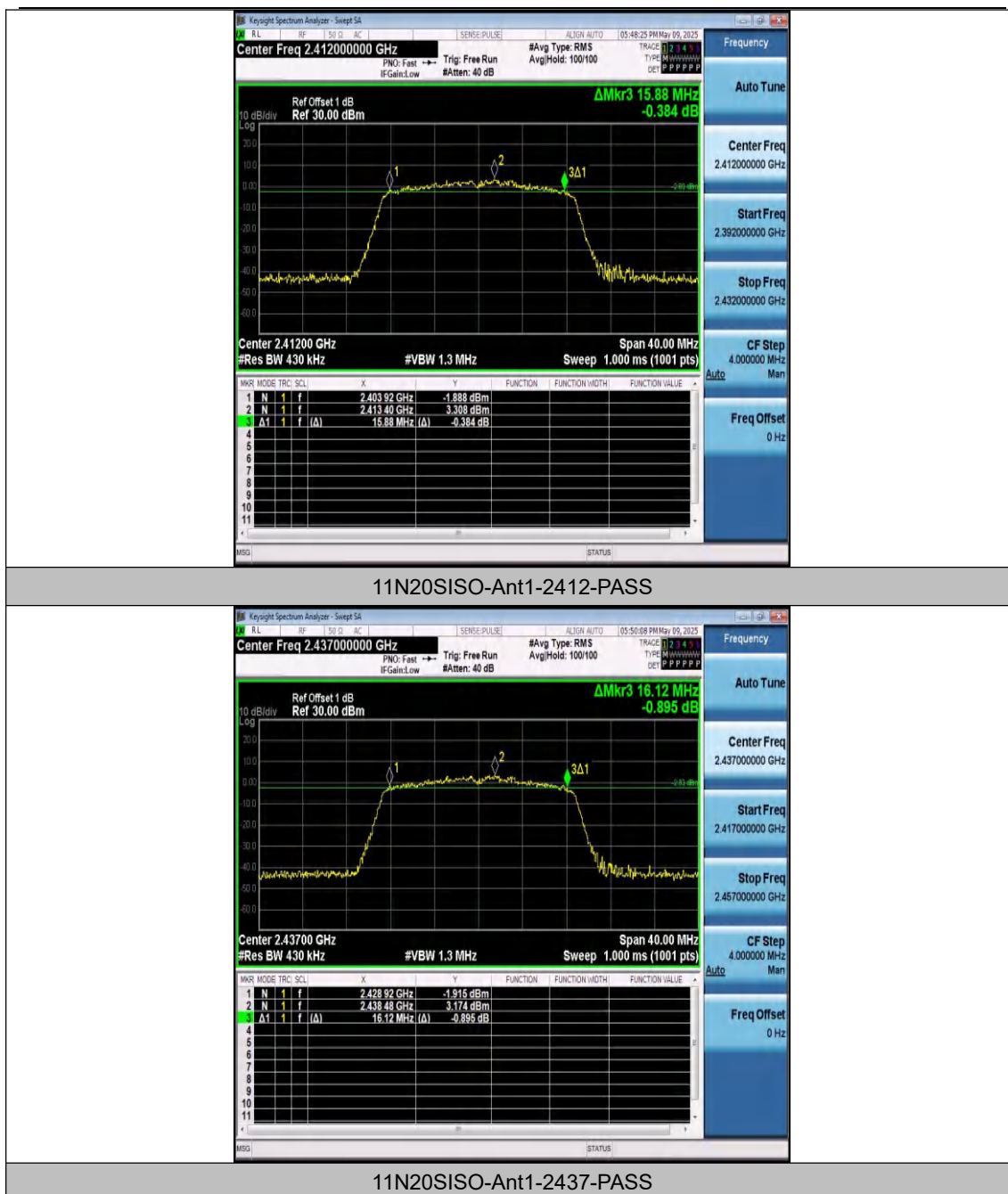


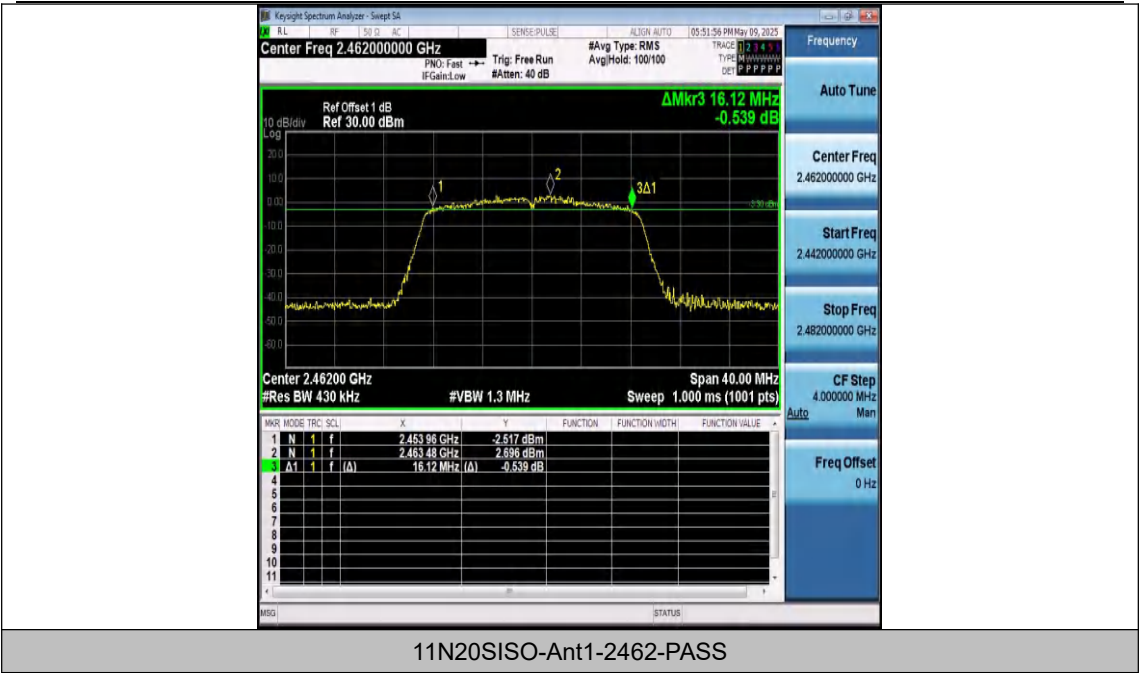
Test Graphs











11N20SISO-Ant1-2462-PASS

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Appendix B: 99% Occupied Bandwidth

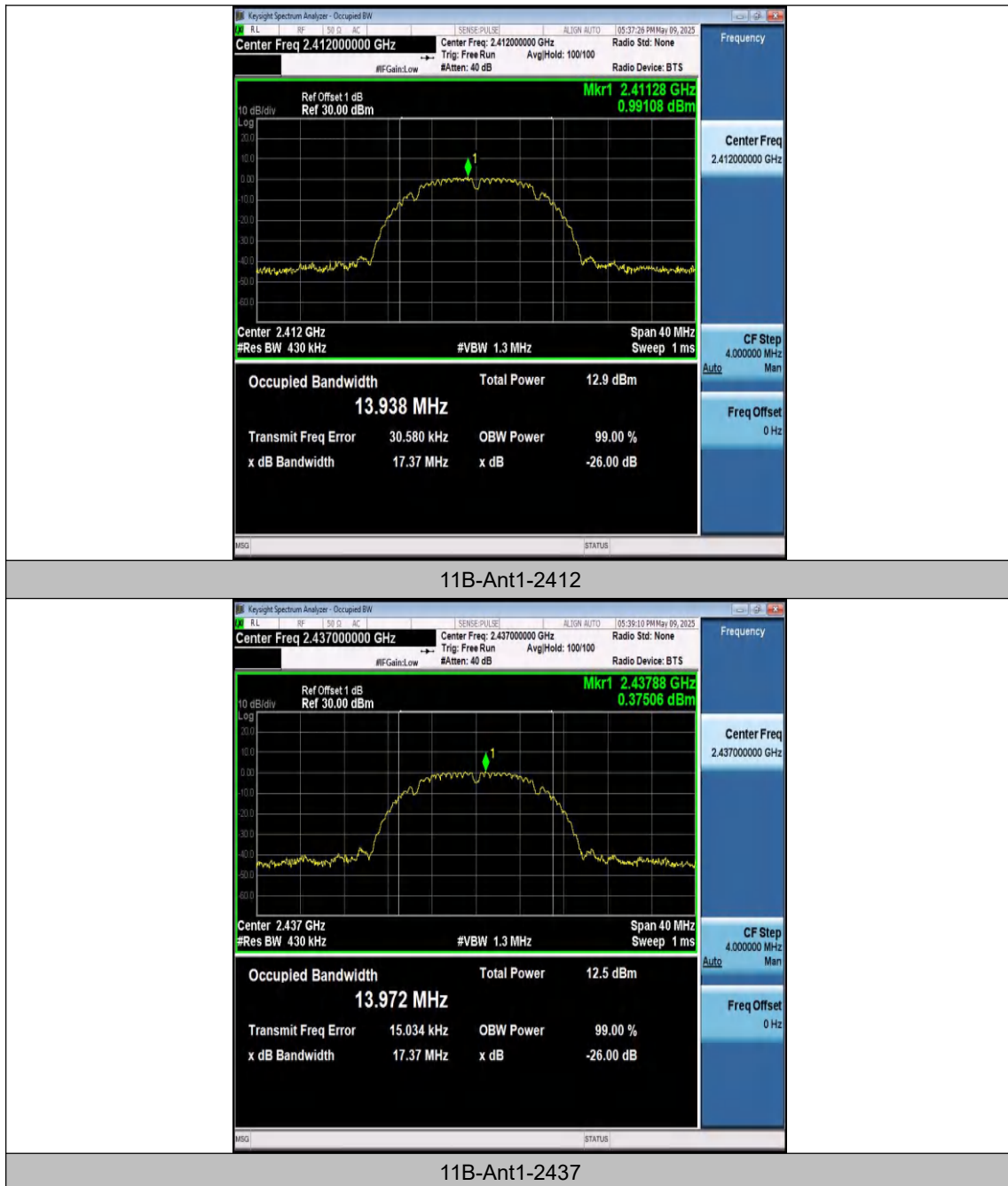
Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.938	2405.0616	2418.9996	---	---
11B	Ant1	2437	13.972	2430.0290	2444.0010	---	---
11B	Ant1	2462	13.958	2455.0132	2468.9712	---	---
11G	Ant1	2412	16.213	2403.9237	2420.1367	---	---
11G	Ant1	2437	16.203	2428.9422	2445.1452	---	---
11G	Ant1	2462	16.230	2453.9208	2470.1508	---	---
11N20SISO	Ant1	2412	17.301	2403.3565	2420.6575	---	---
11N20SISO	Ant1	2437	17.321	2428.3475	2445.6685	---	---
11N20SISO	Ant1	2462	17.325	2453.3582	2470.6832	---	---

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Test Graphs

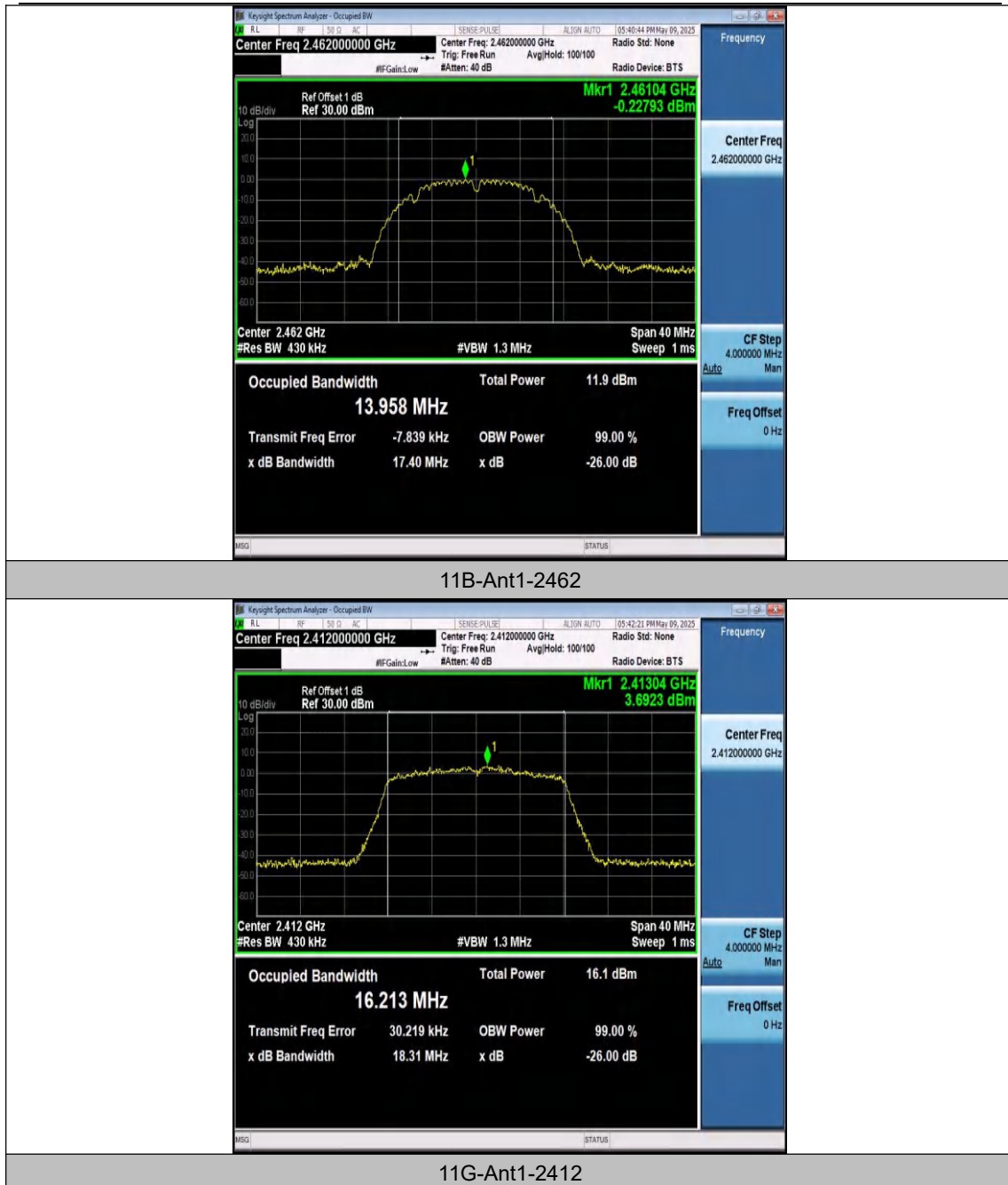


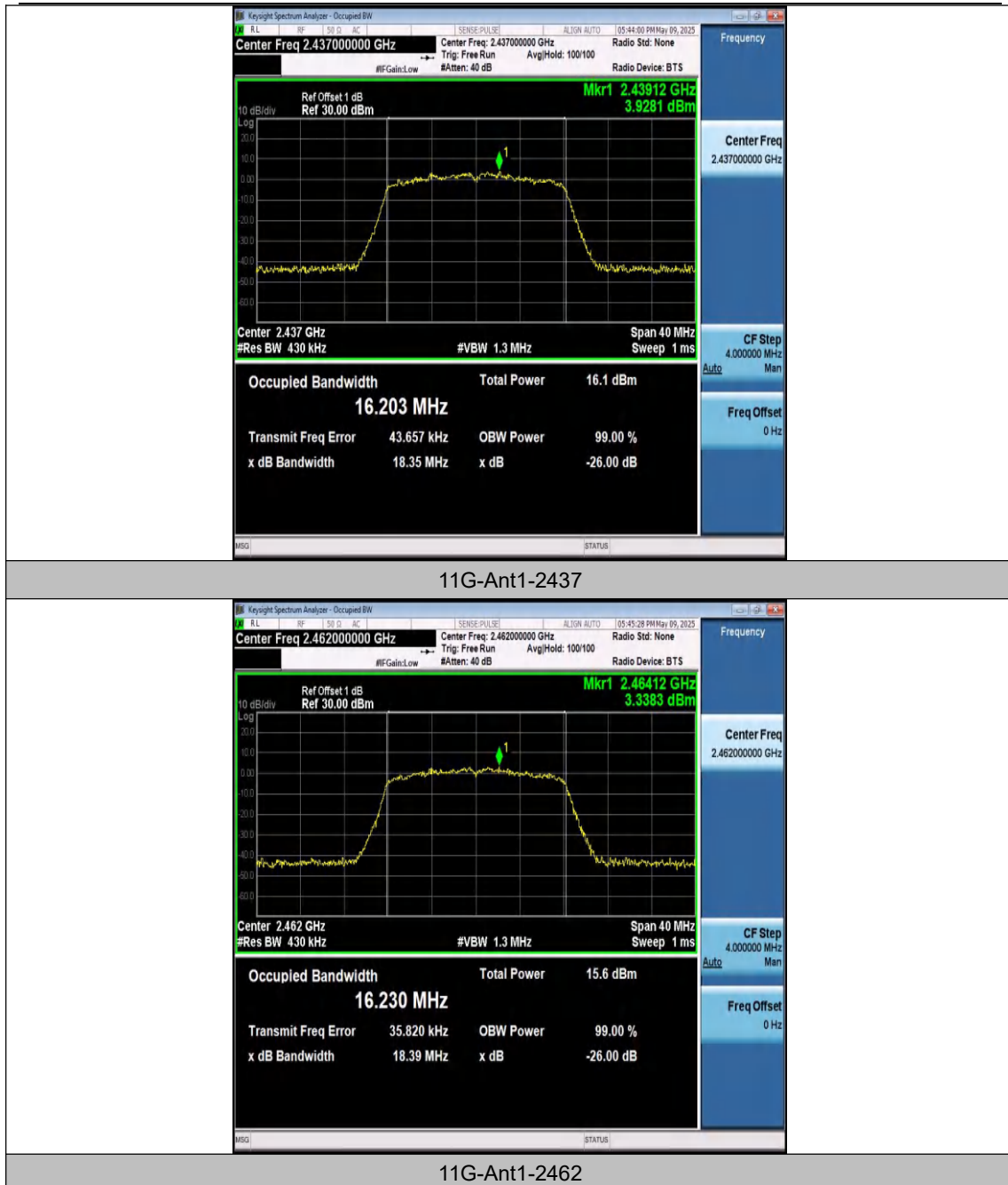
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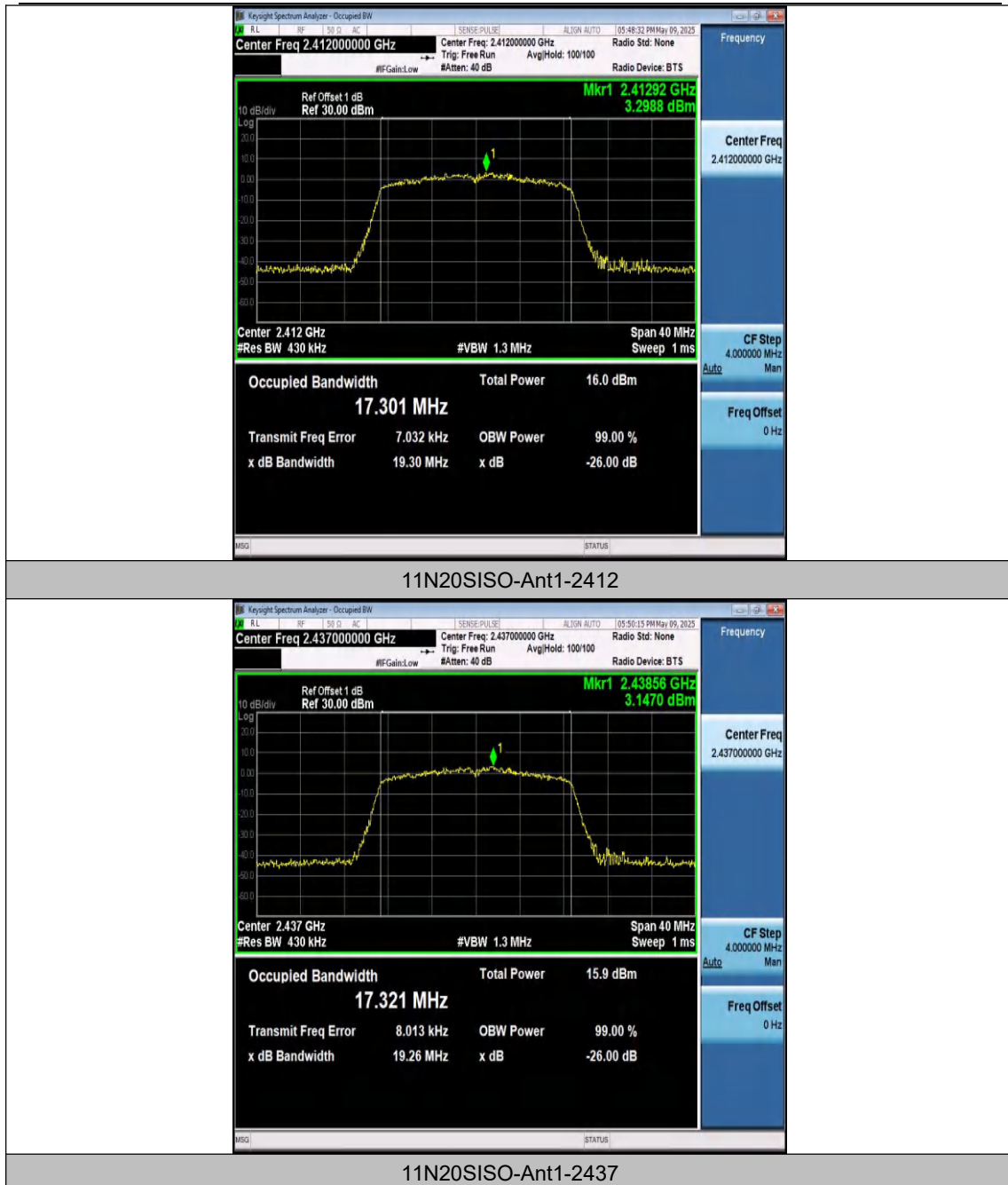
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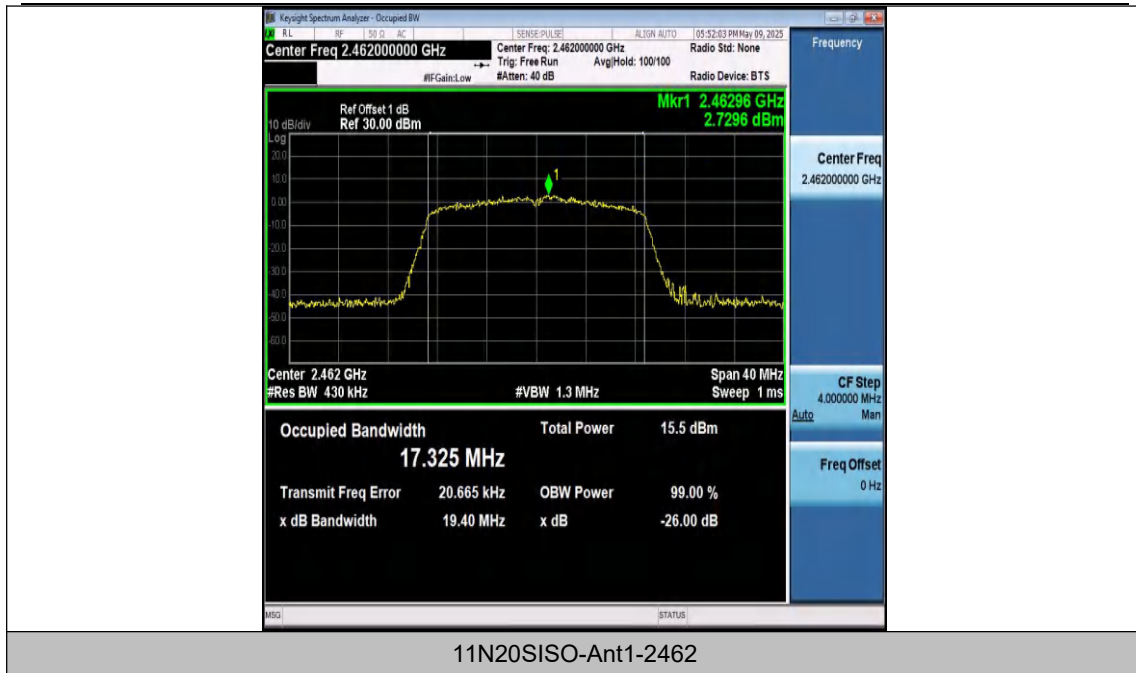


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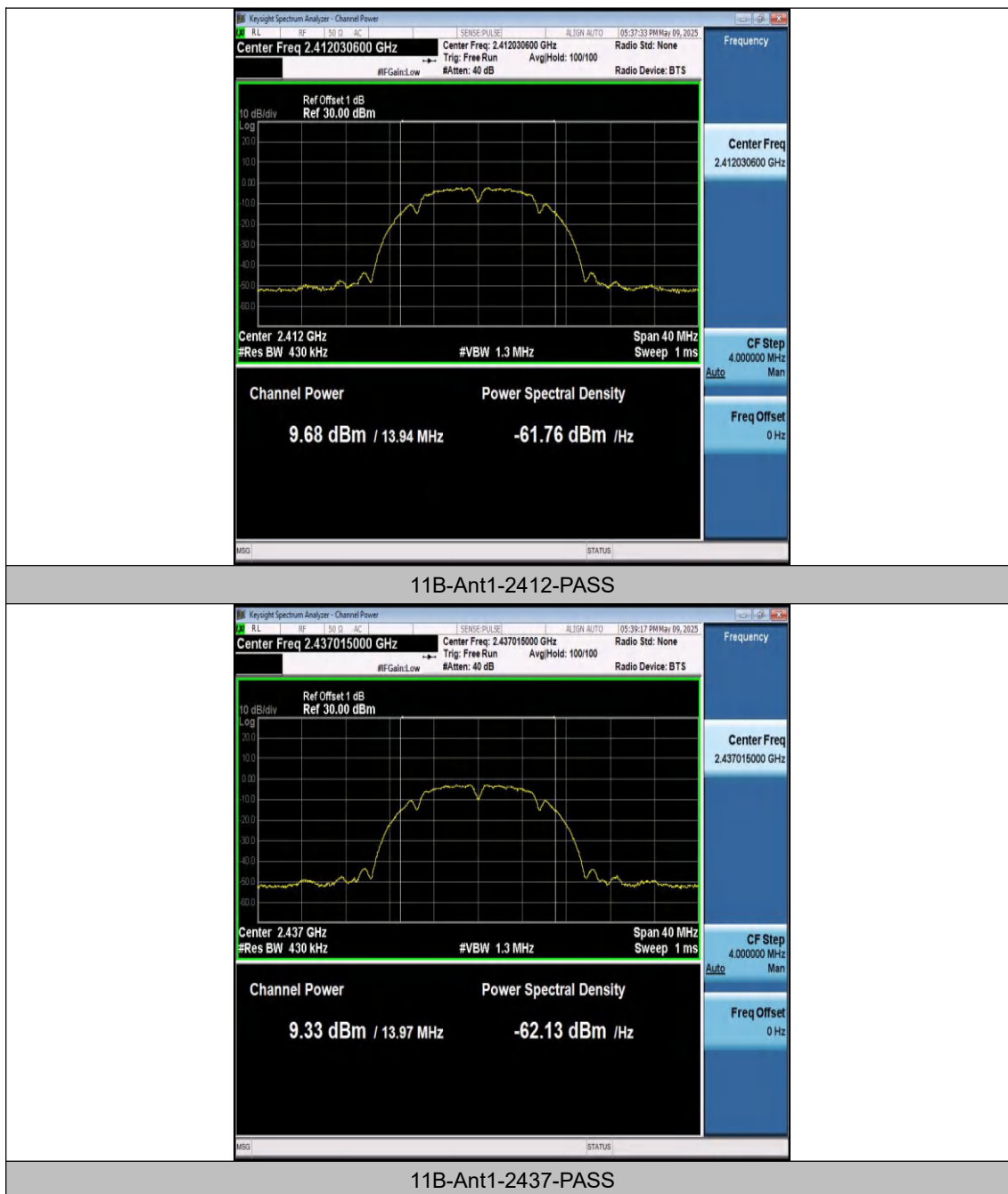
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	9.68	100.00	0.00	9.68	≤30.00	PASS
11B	Ant1	2437	9.33	100.00	0.00	9.33	≤30.00	PASS
11B	Ant1	2462	8.66	100.00	0.00	8.66	≤30.00	PASS
11G	Ant1	2412	10.09	100.00	0.00	10.09	≤30.00	PASS
11G	Ant1	2437	10.03	100.00	0.00	10.03	≤30.00	PASS
11G	Ant1	2462	9.60	100.00	0.00	9.60	≤30.00	PASS
11N20SISO	Ant1	2412	9.90	100.00	0.00	9.90	≤30.00	PASS
11N20SISO	Ant1	2437	9.86	100.00	0.00	9.86	≤30.00	PASS
11N20SISO	Ant1	2462	9.43	100.00	0.00	9.43	≤30.00	PASS

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

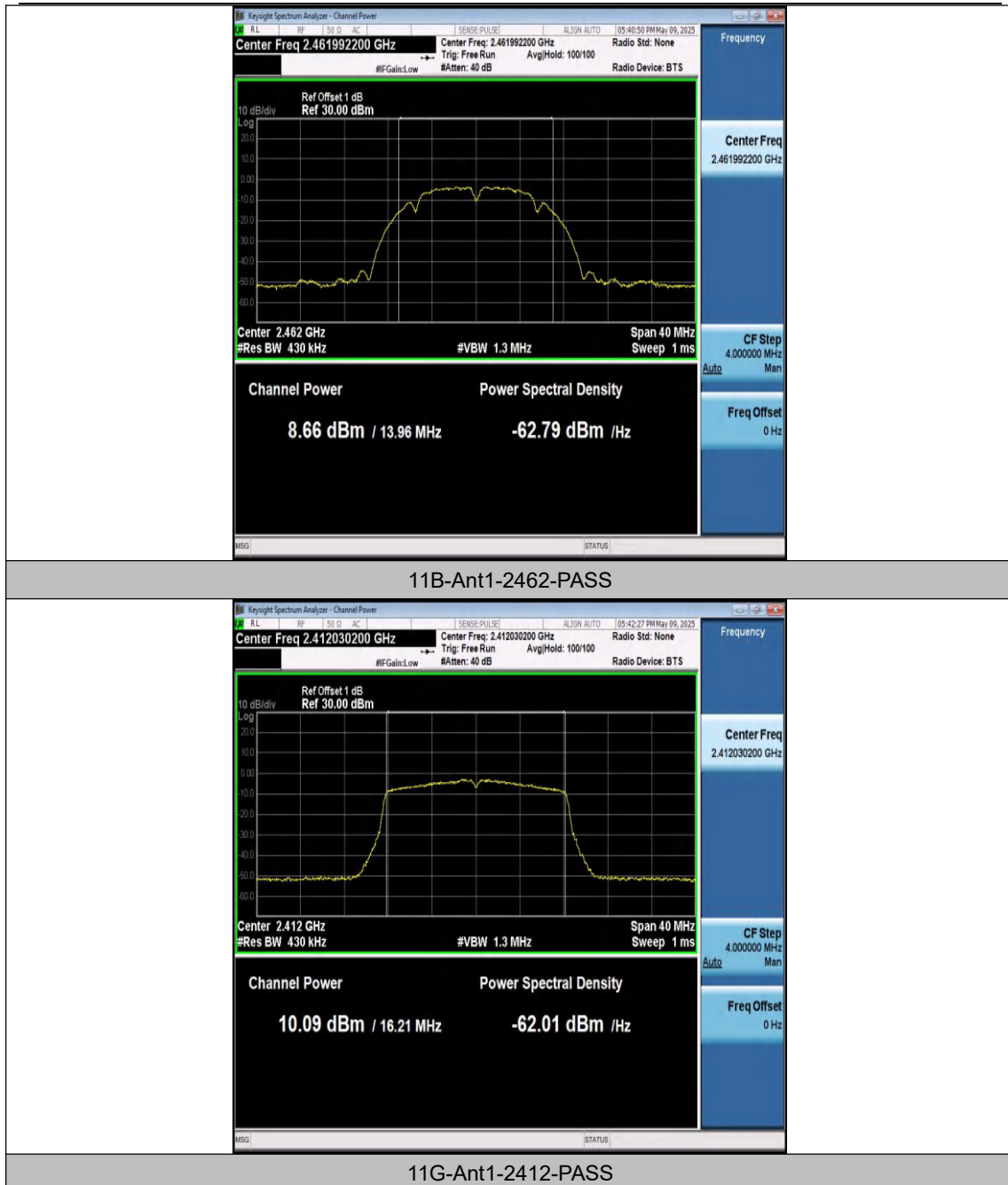
Test Graphs Average

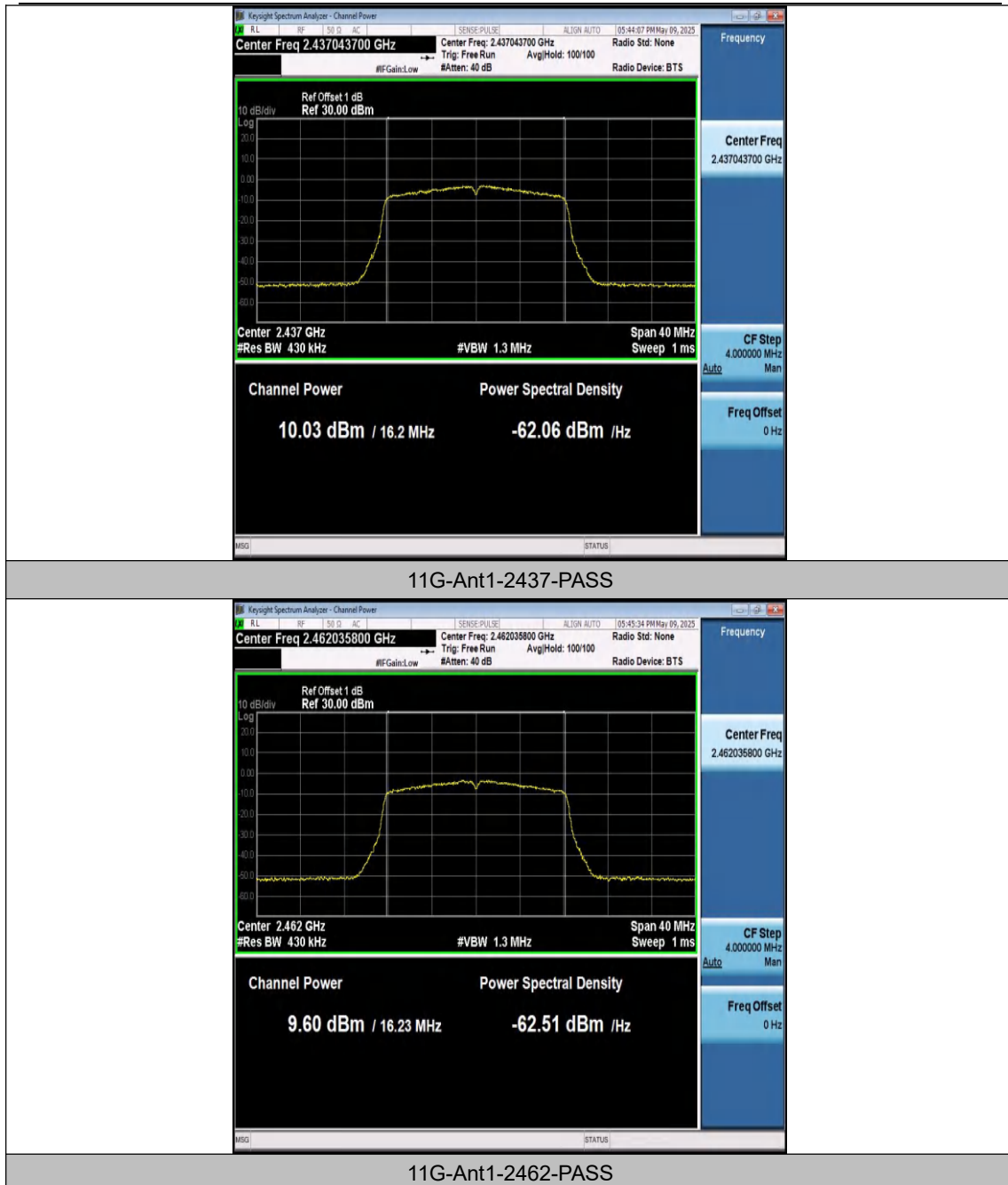


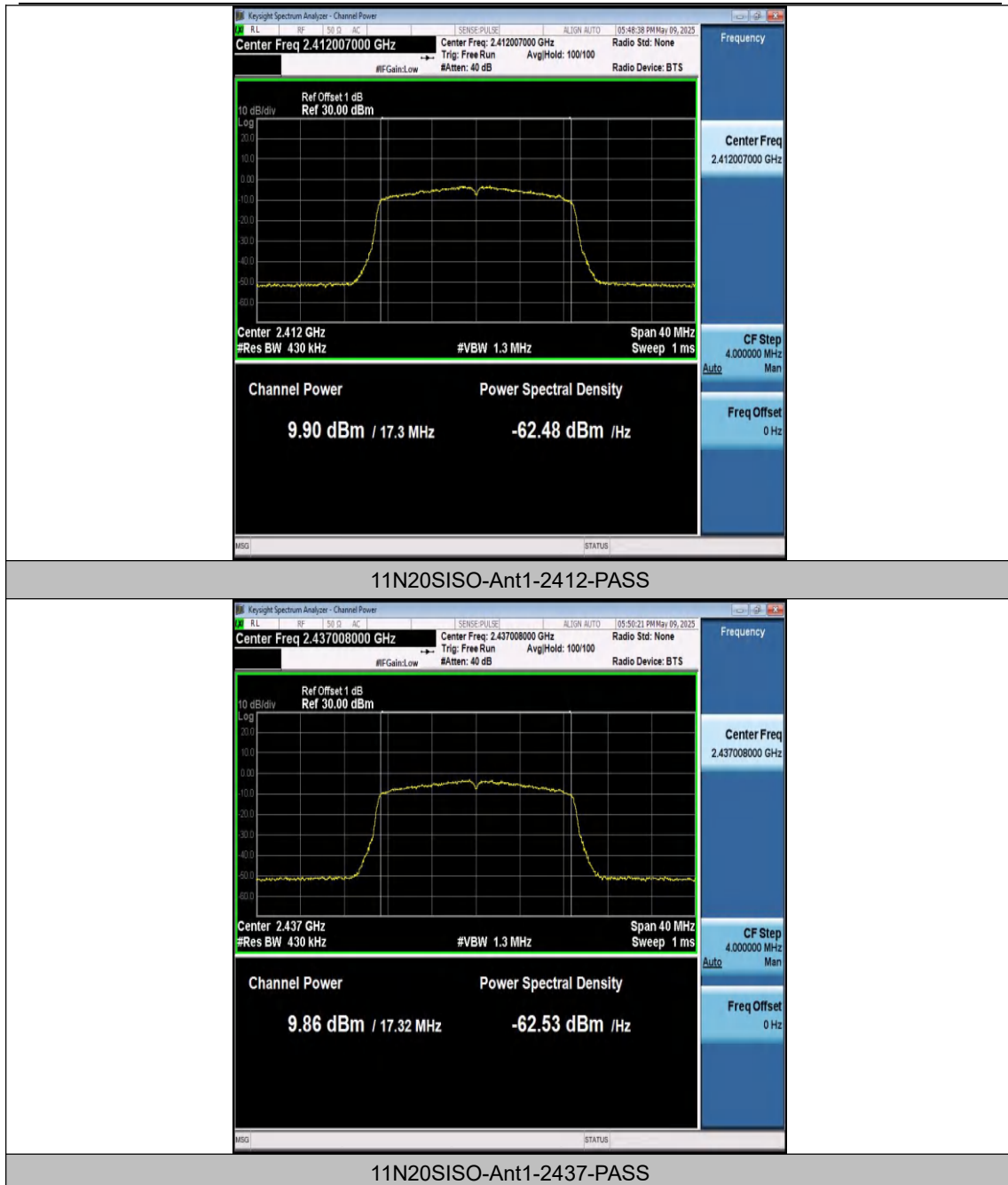
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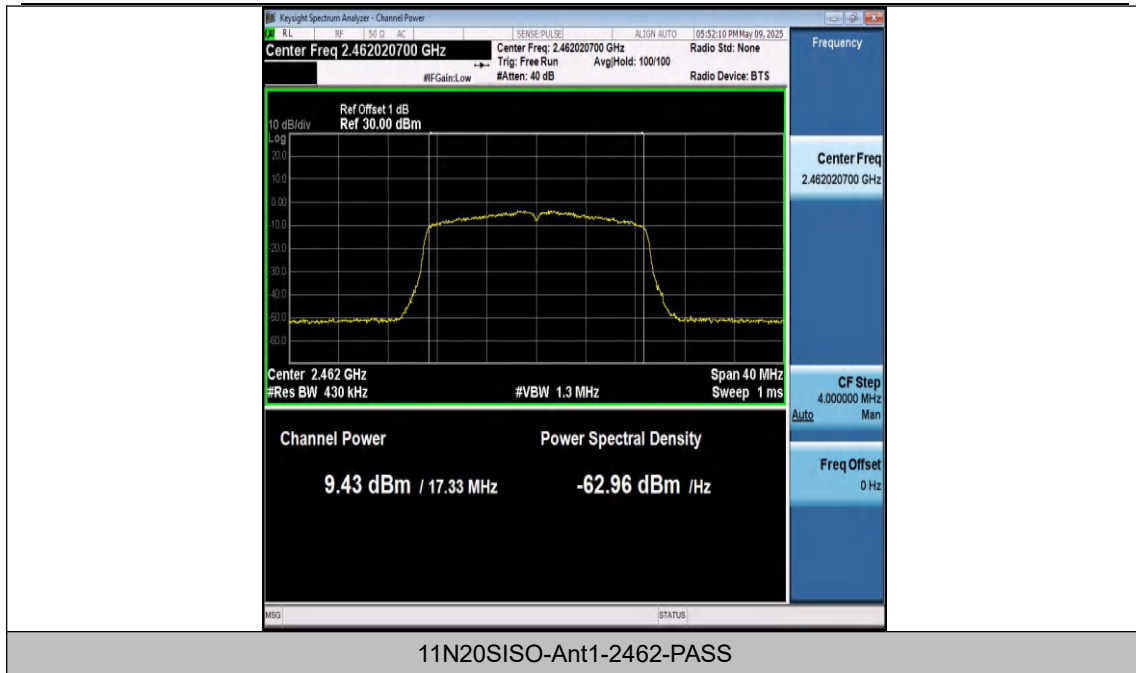
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Appendix D: Maximum power spectral density

Test Result

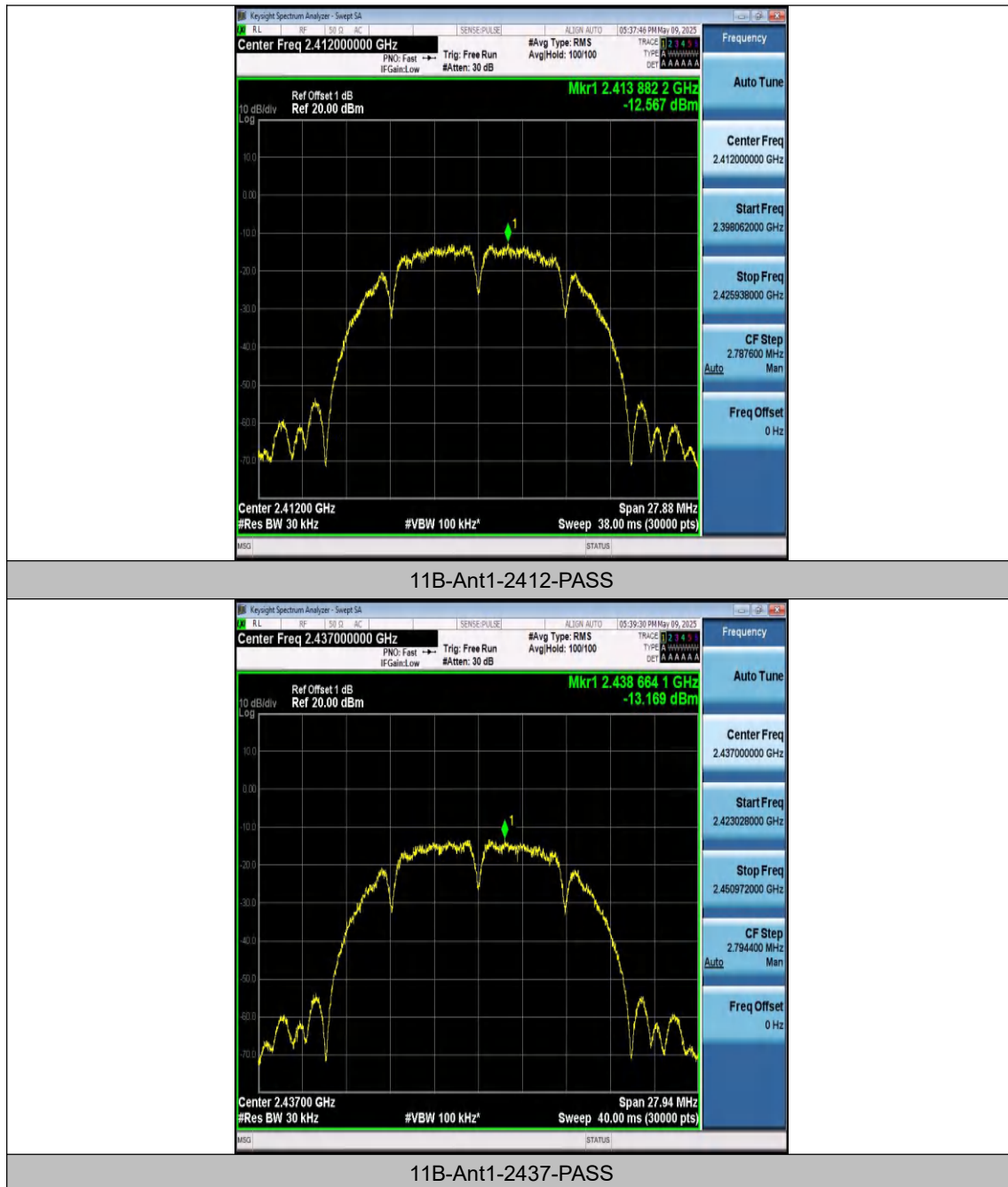
Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-12.57	-22.57	≤8.00	PASS
11B	Ant1	2437	-13.17	-23.17	≤8.00	PASS
11B	Ant1	2462	-13.78	-23.78	≤8.00	PASS
11G	Ant1	2412	-11.33	-21.33	≤8.00	PASS
11G	Ant1	2437	-11.56	-21.56	≤8.00	PASS
11G	Ant1	2462	-12.30	-22.3	≤8.00	PASS
11N20SISO	Ant1	2412	-11.86	-21.86	≤8.00	PASS
11N20SISO	Ant1	2437	-12.04	-22.04	≤8.00	PASS
11N20SISO	Ant1	2462	-12.53	-22.53	≤8.00	PASS

Note:

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



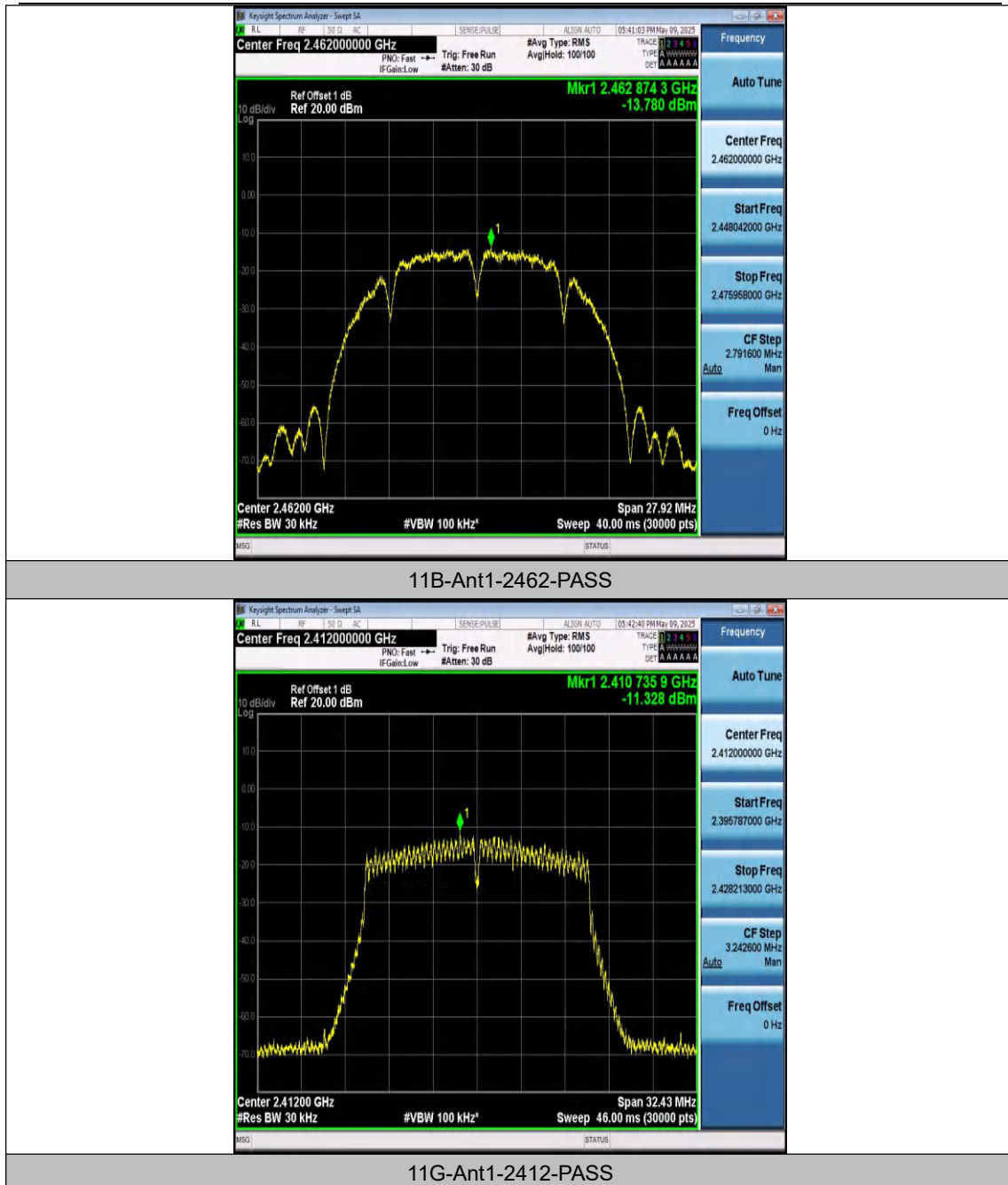
Test Graphs

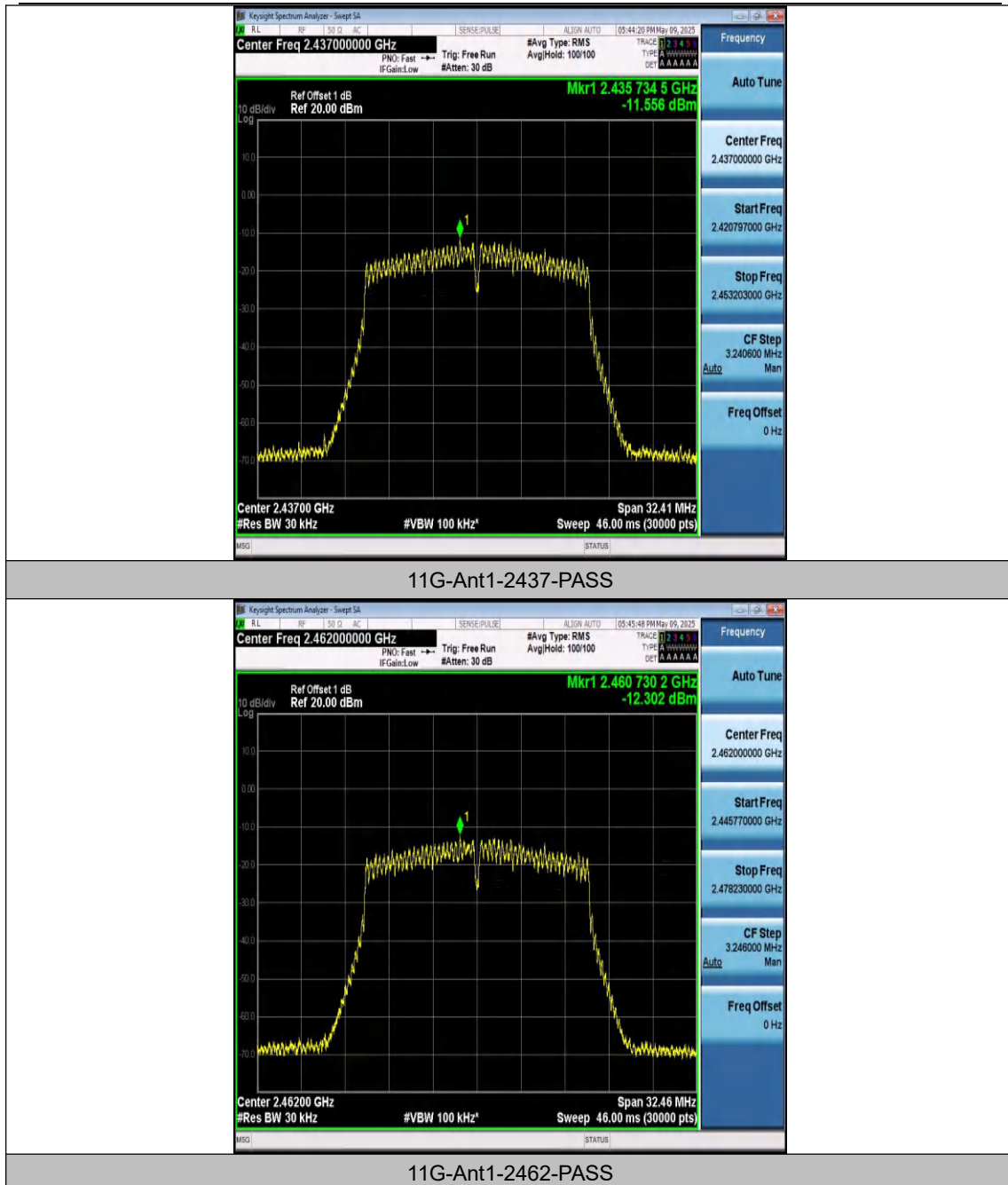


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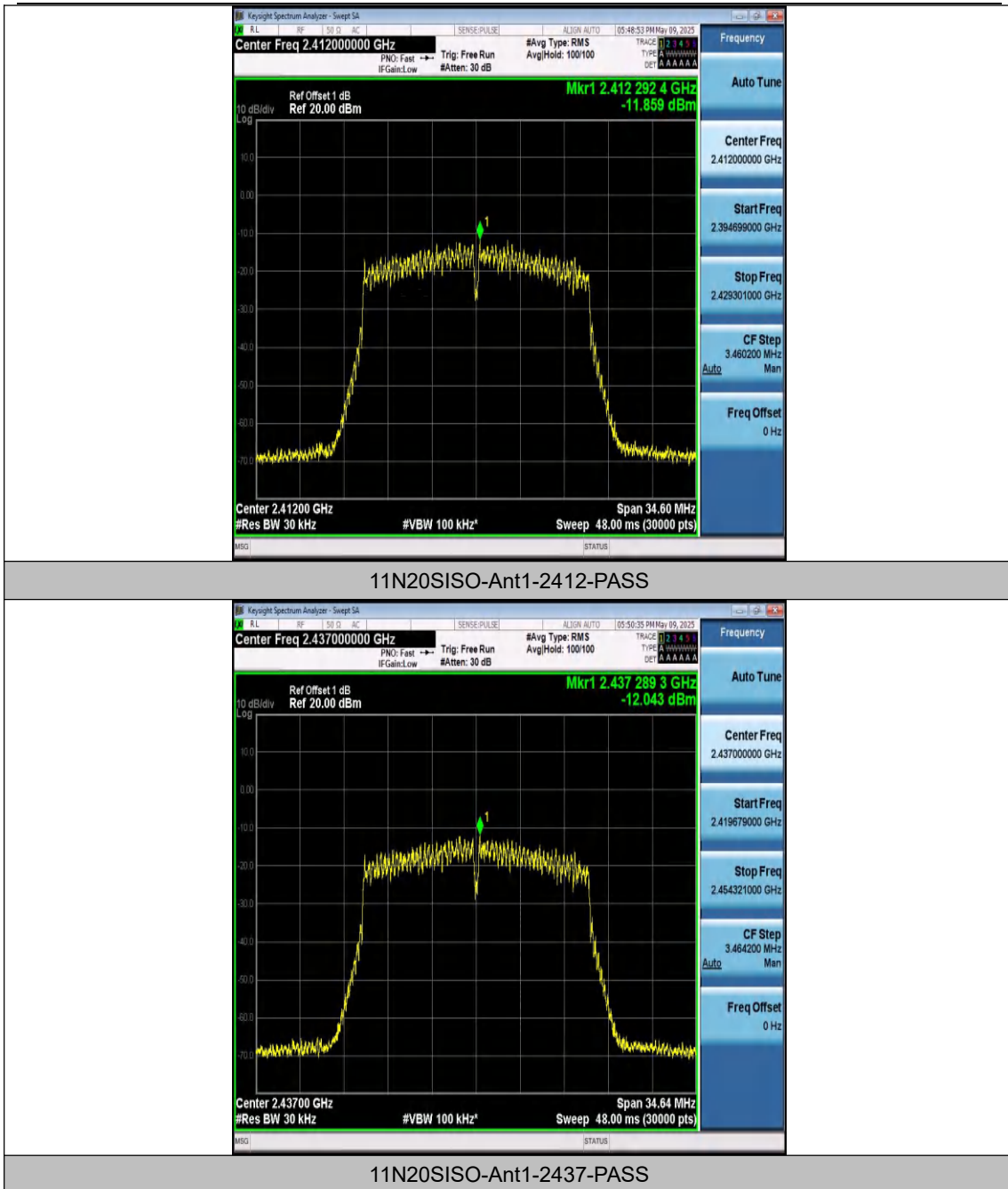


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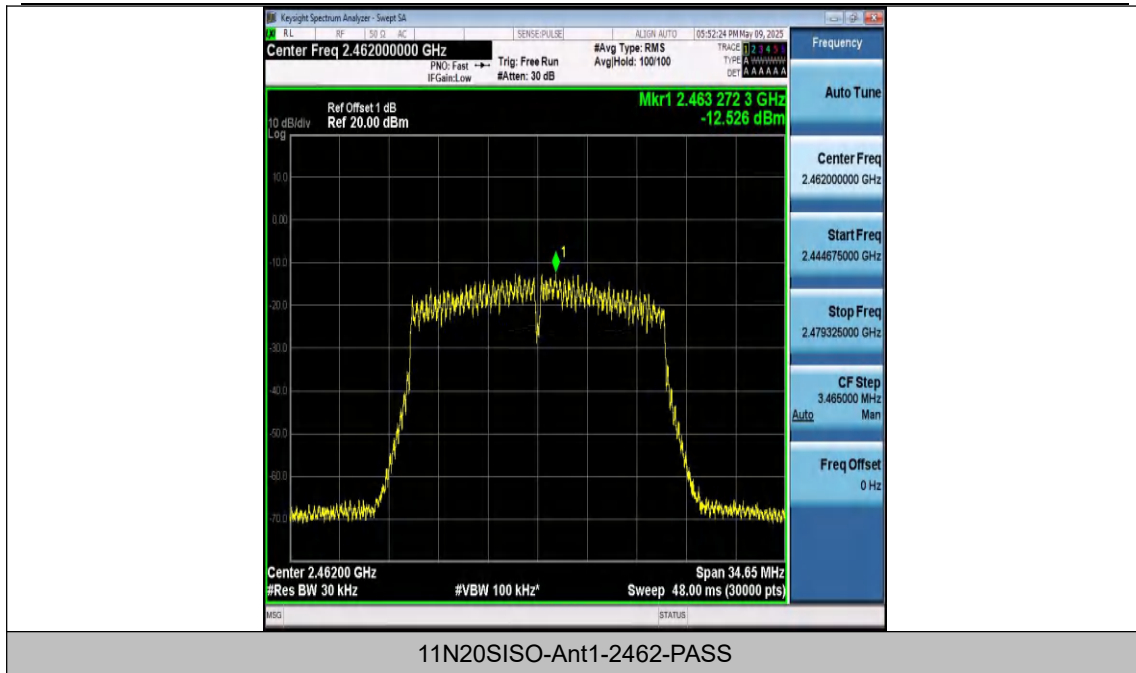
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Appendix E: Conducted Band edge

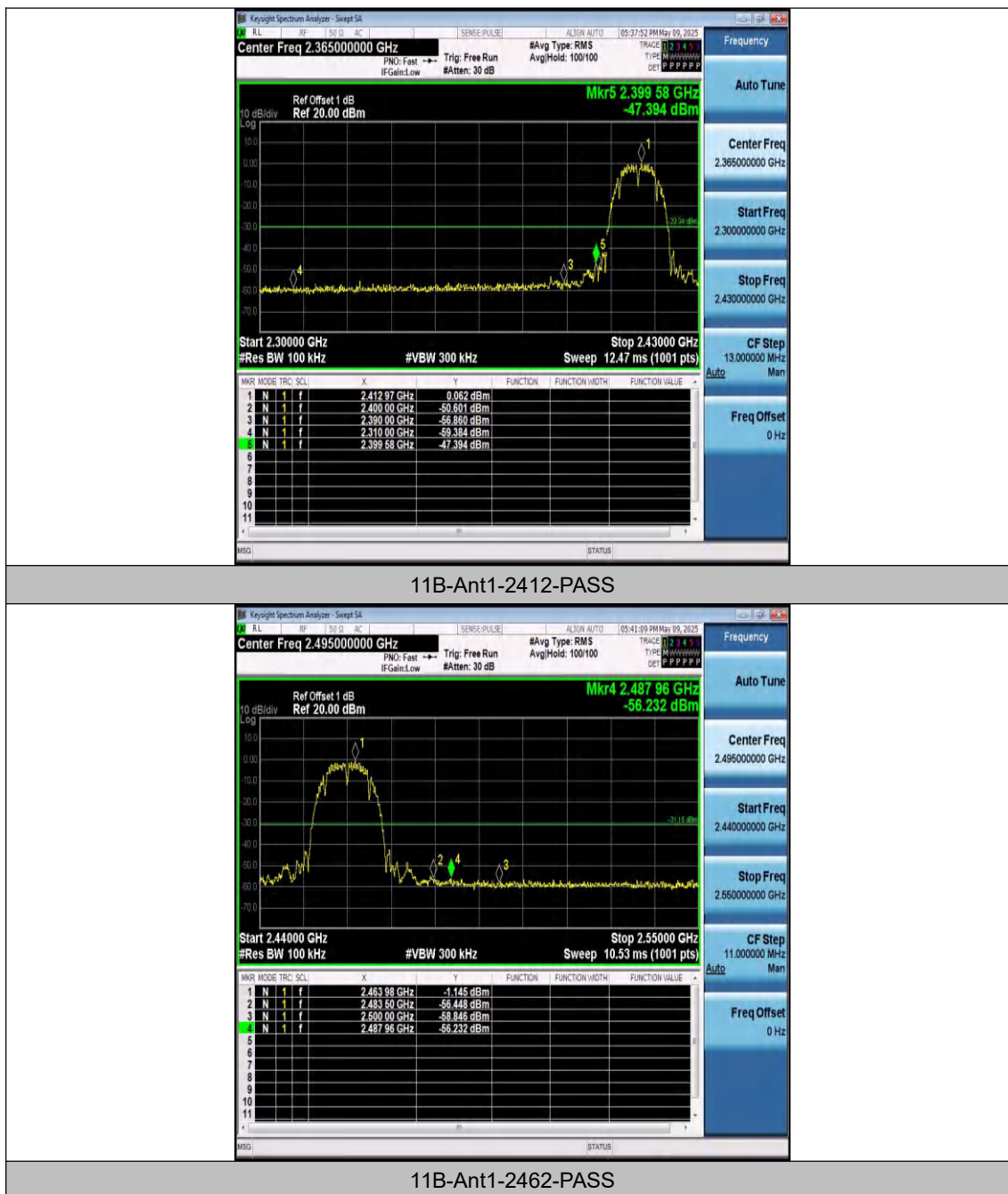
Test Result

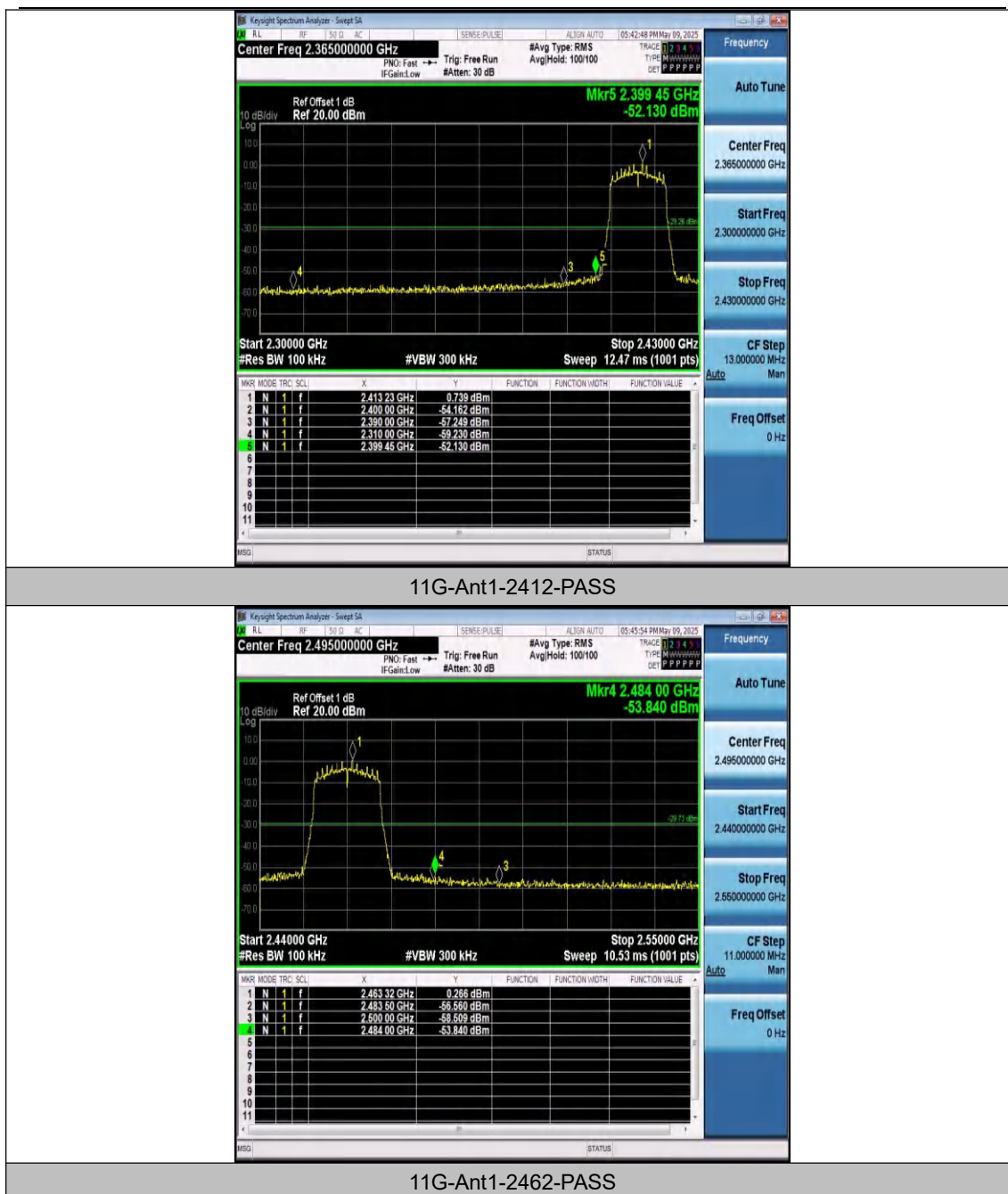
Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.06	-47.39	≤-29.94	PASS
11B	Ant1	High	2462	-1.15	-56.23	≤-31.15	PASS
11G	Ant1	Low	2412	0.74	-52.13	≤-29.26	PASS
11G	Ant1	High	2462	0.27	-53.84	≤-29.73	PASS
11N20SISO	Ant1	Low	2412	0.61	-51.07	≤-29.39	PASS
11N20SISO	Ant1	High	2462	-1.03	-54.34	≤-31.03	PASS

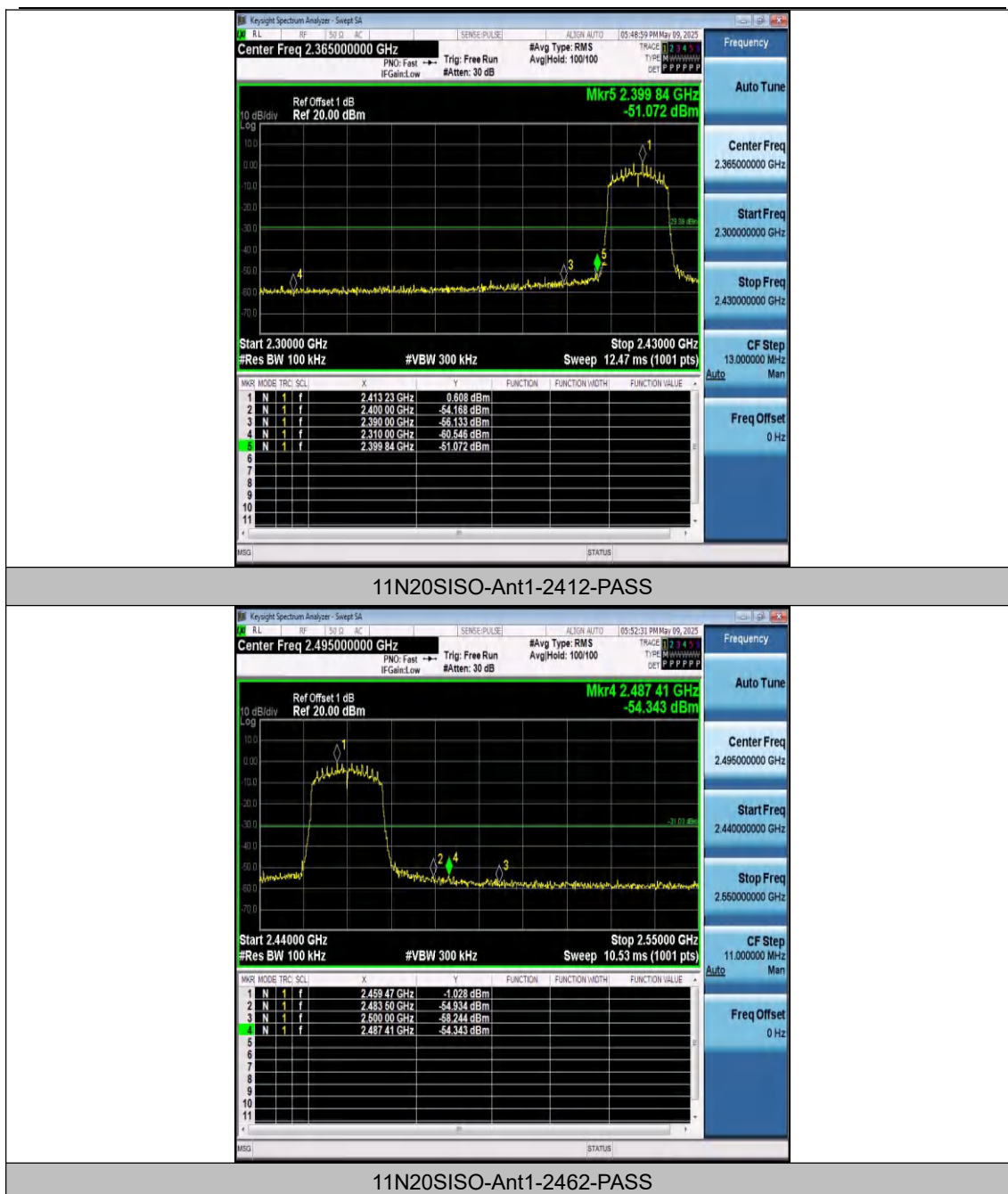
Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.



Test Graphs







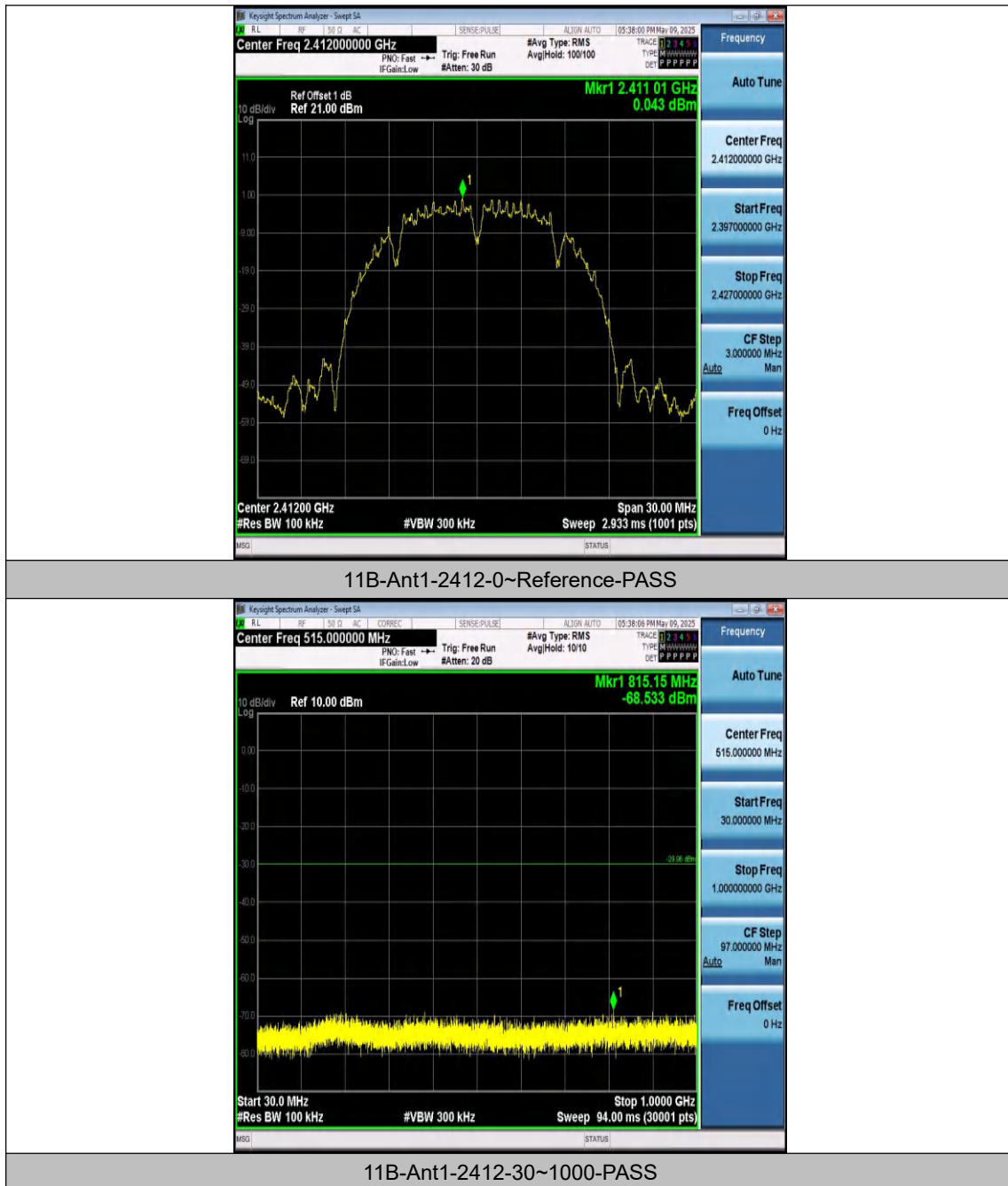
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	0.04	0.04	---	PASS
11B	Ant1	2412	30~1000	0.04	-68.53	≤-29.96	PASS
11B	Ant1	2412	1000~26500	0.04	-53.24	≤-29.96	PASS
11B	Ant1	2437	0~Reference	-0.49	-0.49	---	PASS
11B	Ant1	2437	30~1000	-0.49	-69.04	≤-30.49	PASS
11B	Ant1	2437	1000~26500	-0.49	-53.86	≤-30.49	PASS
11B	Ant1	2462	0~Reference	-1.06	-1.06	---	PASS
11B	Ant1	2462	30~1000	-1.06	-68.27	≤-31.06	PASS
11B	Ant1	2462	1000~26500	-1.06	-53.51	≤-31.06	PASS
11G	Ant1	2412	0~Reference	0.62	0.62	---	PASS
11G	Ant1	2412	30~1000	0.62	-67.64	≤-29.38	PASS
11G	Ant1	2412	1000~26500	0.62	-53.13	≤-29.38	PASS
11G	Ant1	2437	0~Reference	0.45	0.45	---	PASS
11G	Ant1	2437	30~1000	0.45	-68.44	≤-29.55	PASS
11G	Ant1	2437	1000~26500	0.45	-53.51	≤-29.55	PASS
11G	Ant1	2462	0~Reference	0.06	0.06	---	PASS
11G	Ant1	2462	30~1000	0.06	-68.91	≤-29.94	PASS
11G	Ant1	2462	1000~26500	0.06	-53.74	≤-29.94	PASS
11N20SISO	Ant1	2412	0~Reference	-0.87	-0.87	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.87	-68.22	≤-30.87	PASS
11N20SISO	Ant1	2412	1000~26500	-0.87	-53.5	≤-30.87	PASS
11N20SISO	Ant1	2437	0~Reference	-0.32	-0.32	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.32	-68.52	≤-30.32	PASS
11N20SISO	Ant1	2437	1000~26500	-0.32	-52.89	≤-30.32	PASS
11N20SISO	Ant1	2462	0~Reference	0.22	0.22	---	PASS
11N20SISO	Ant1	2462	30~1000	0.22	-67.98	≤-29.78	PASS
11N20SISO	Ant1	2462	1000~26500	0.22	-53.36	≤-29.78	PASS

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

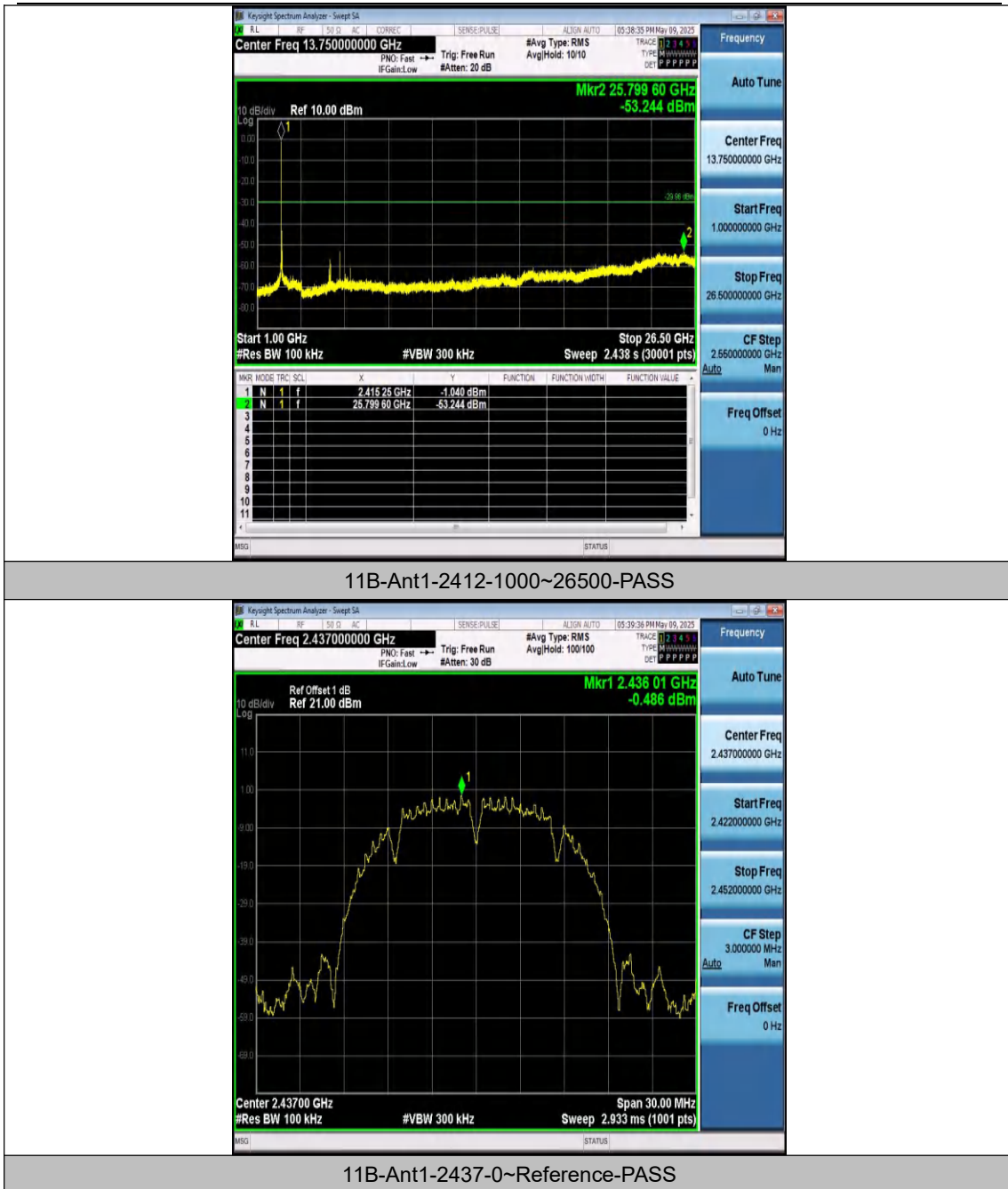
Test Graphs

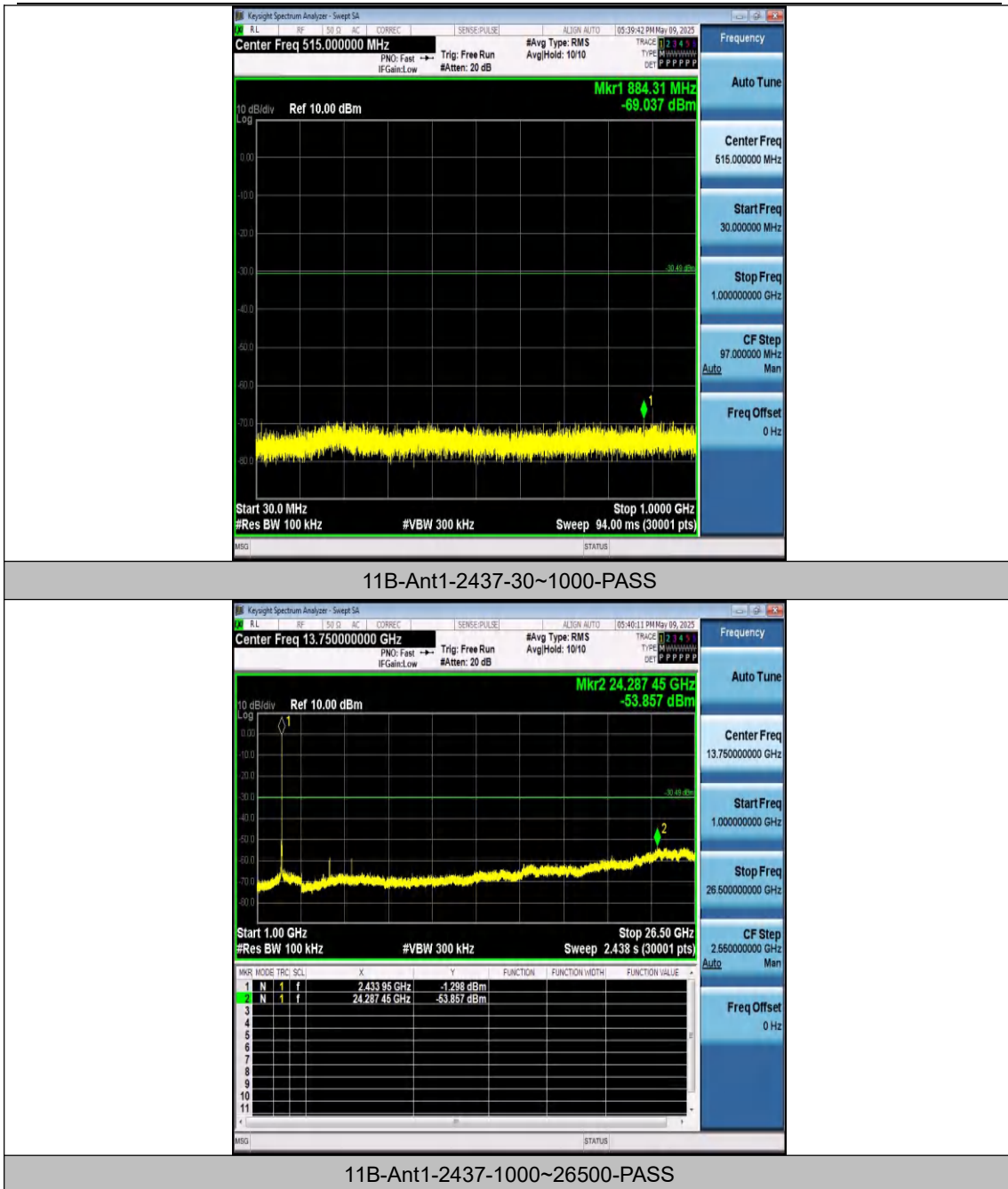


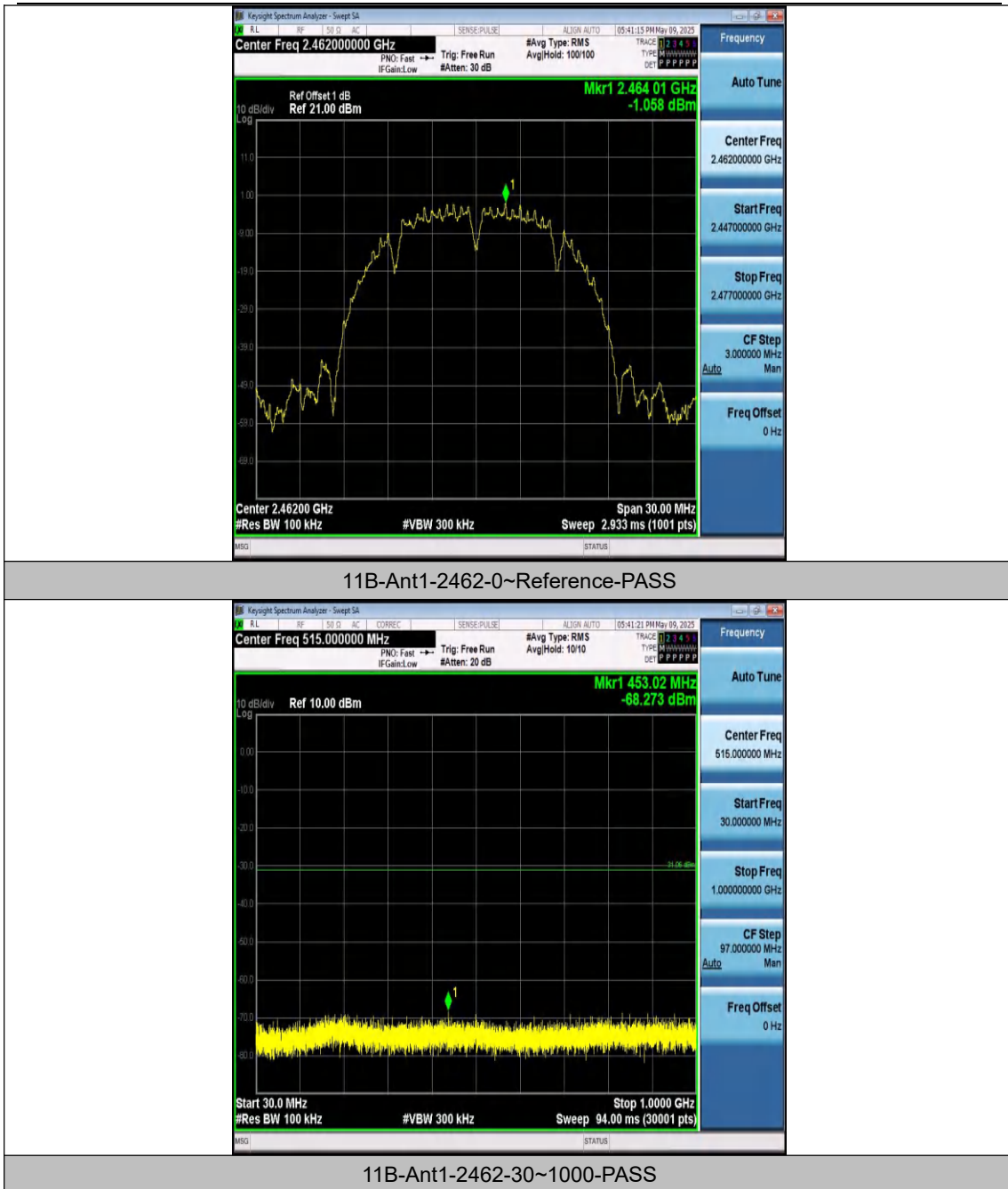
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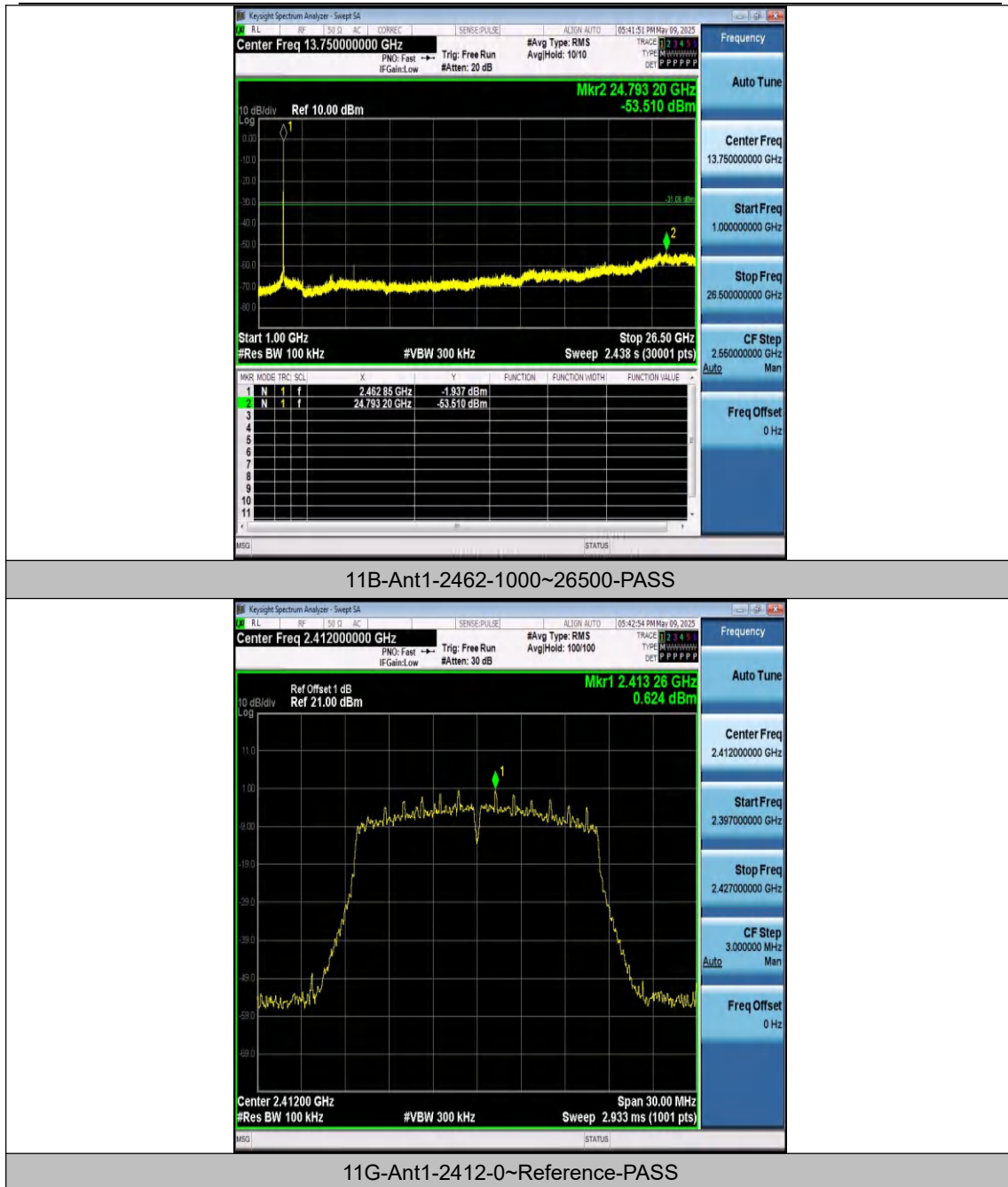
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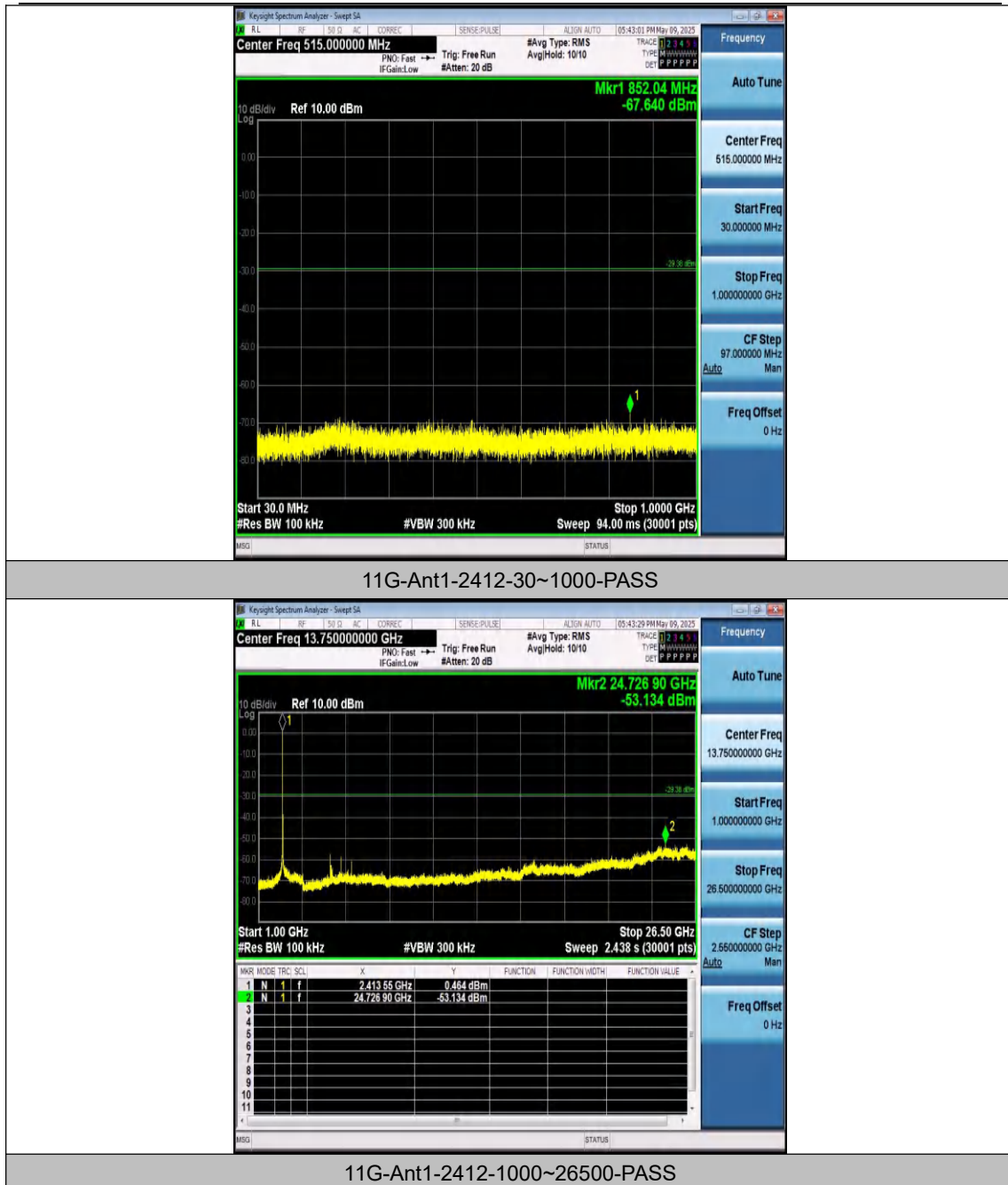


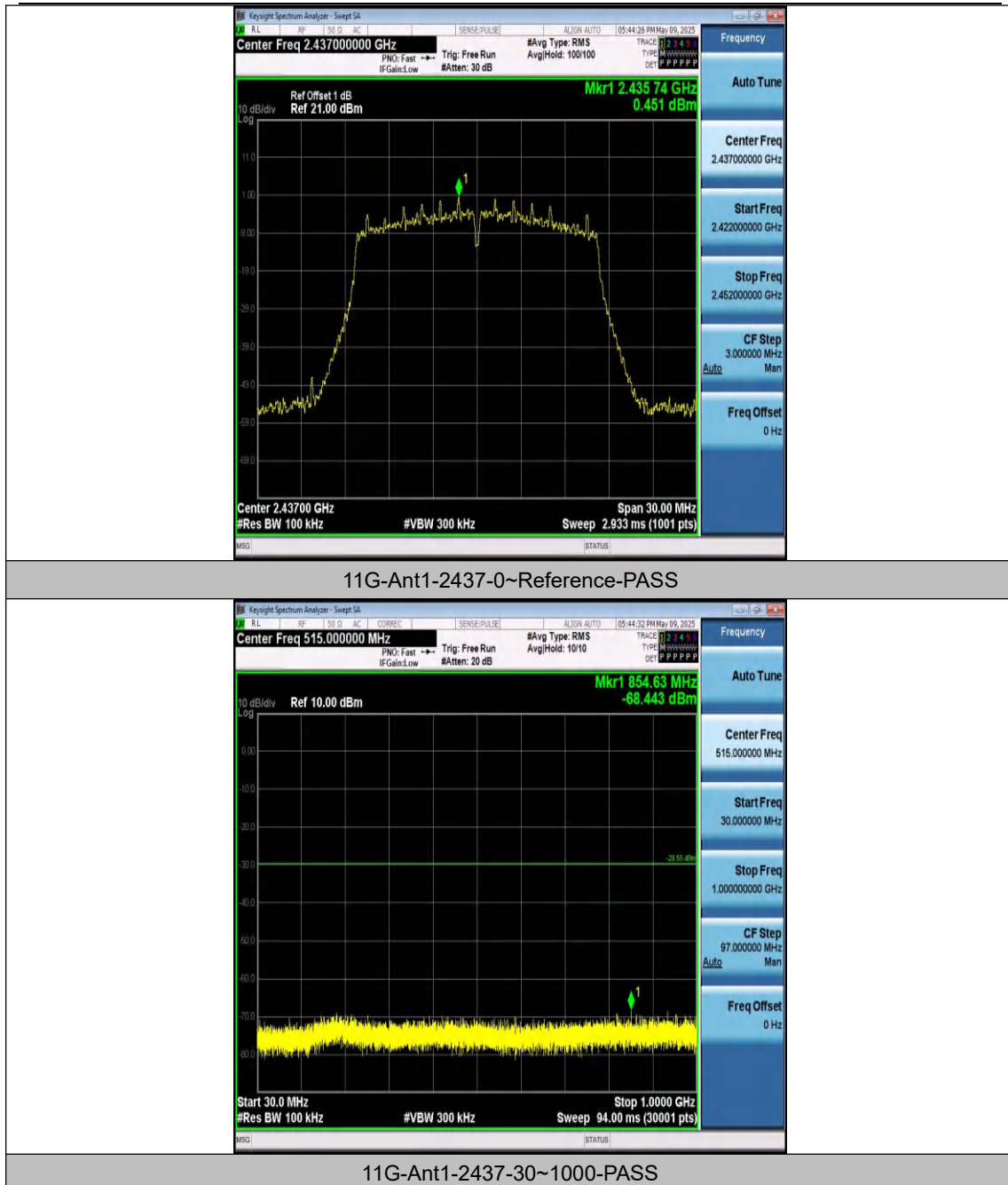


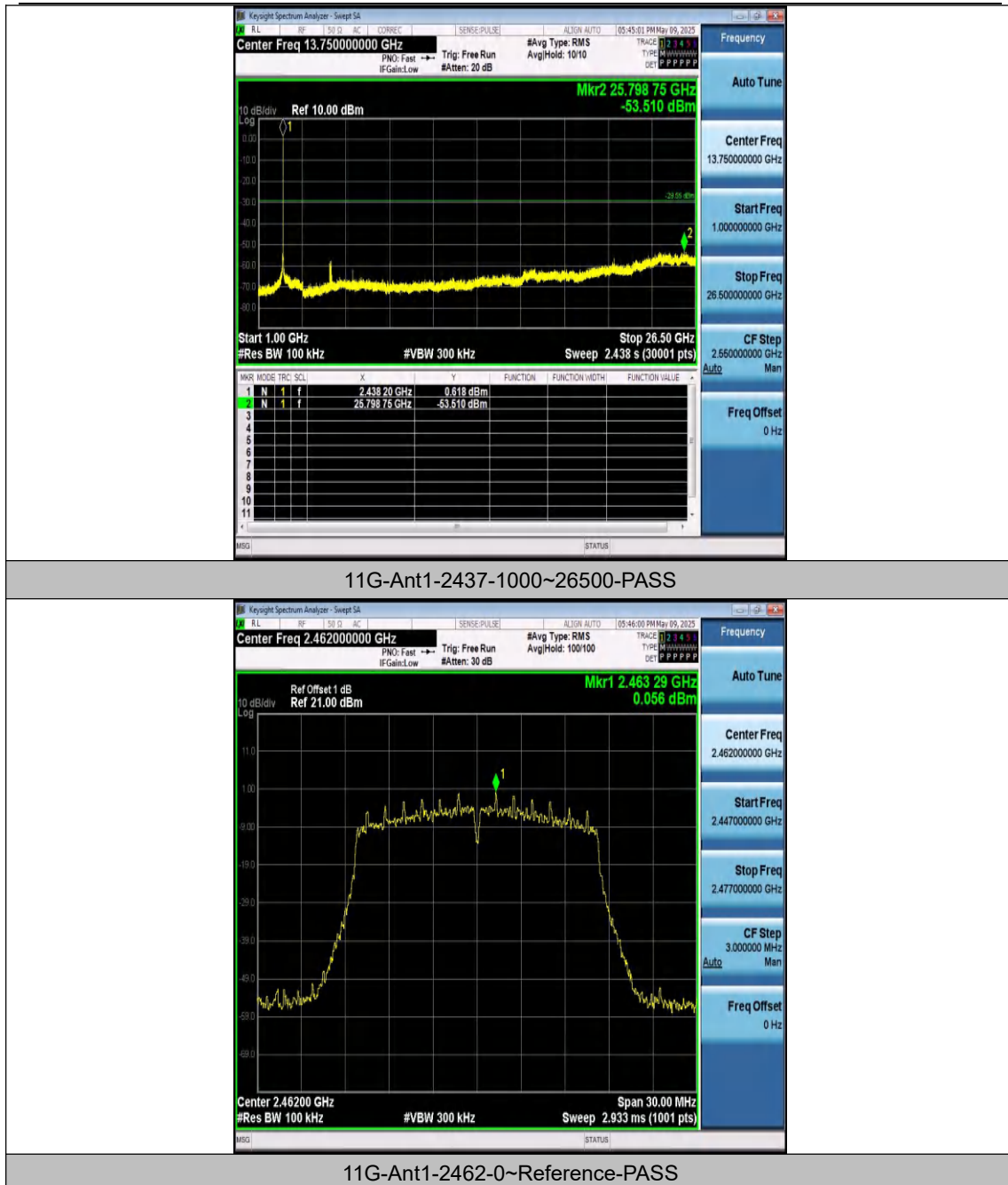
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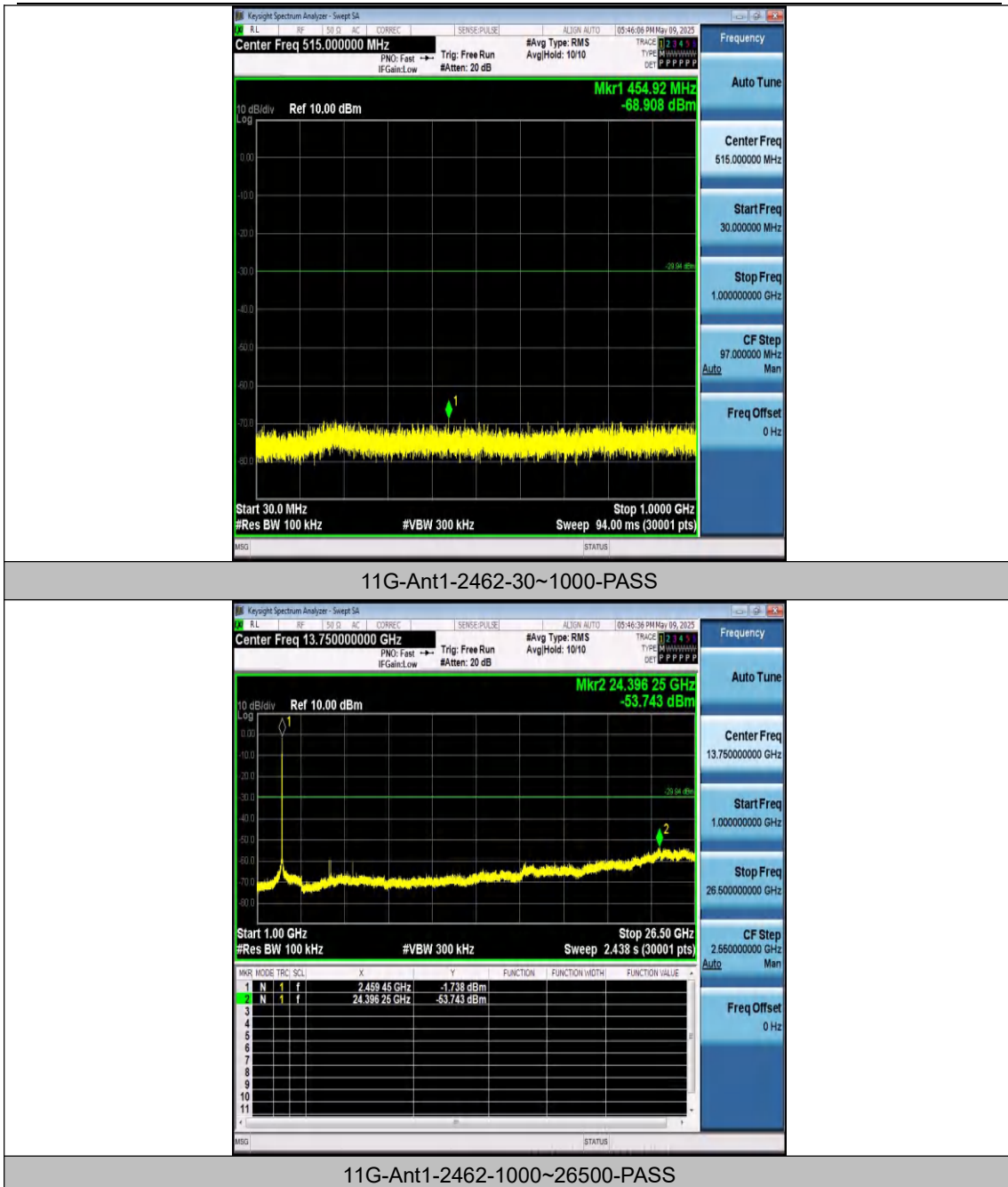
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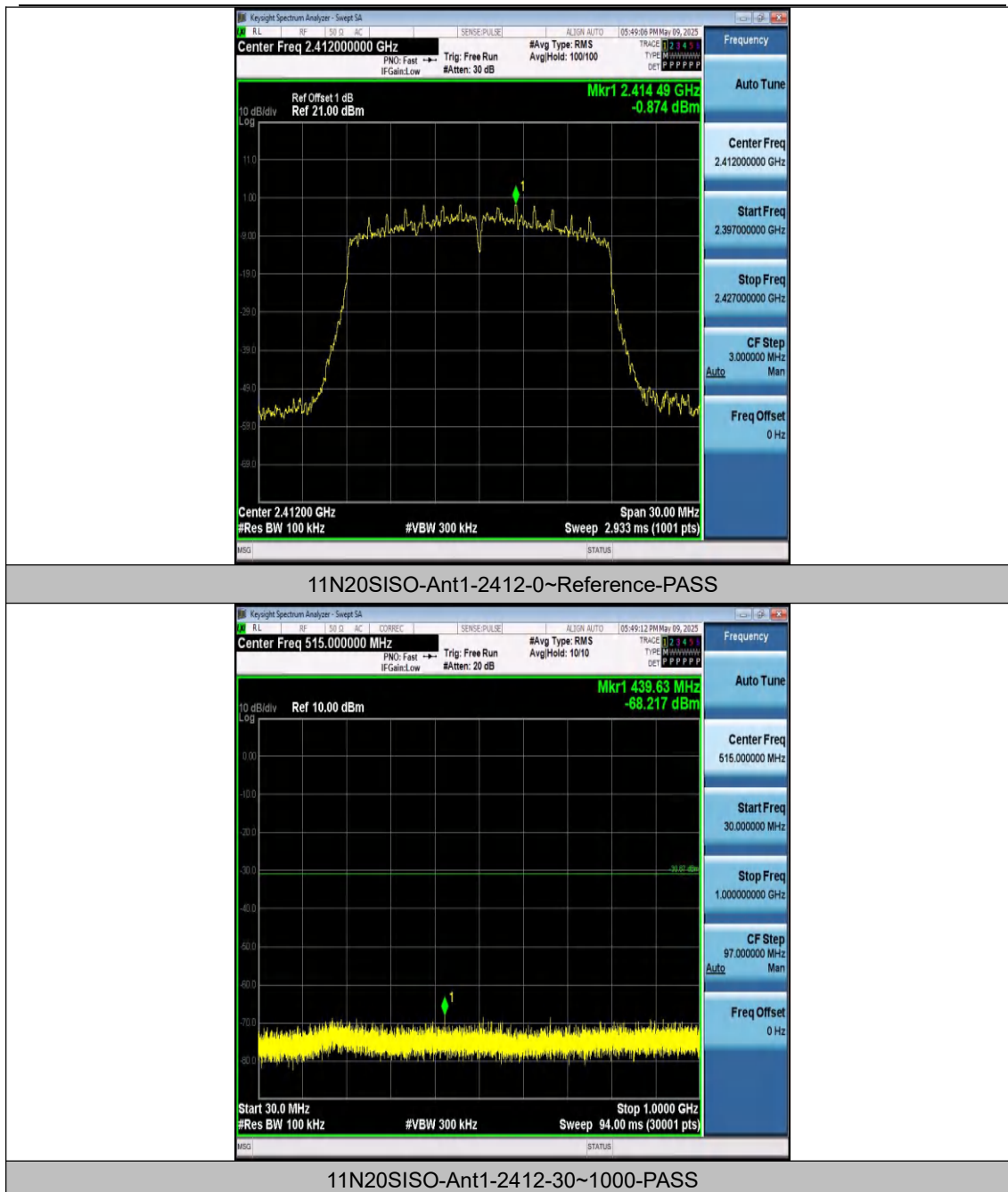
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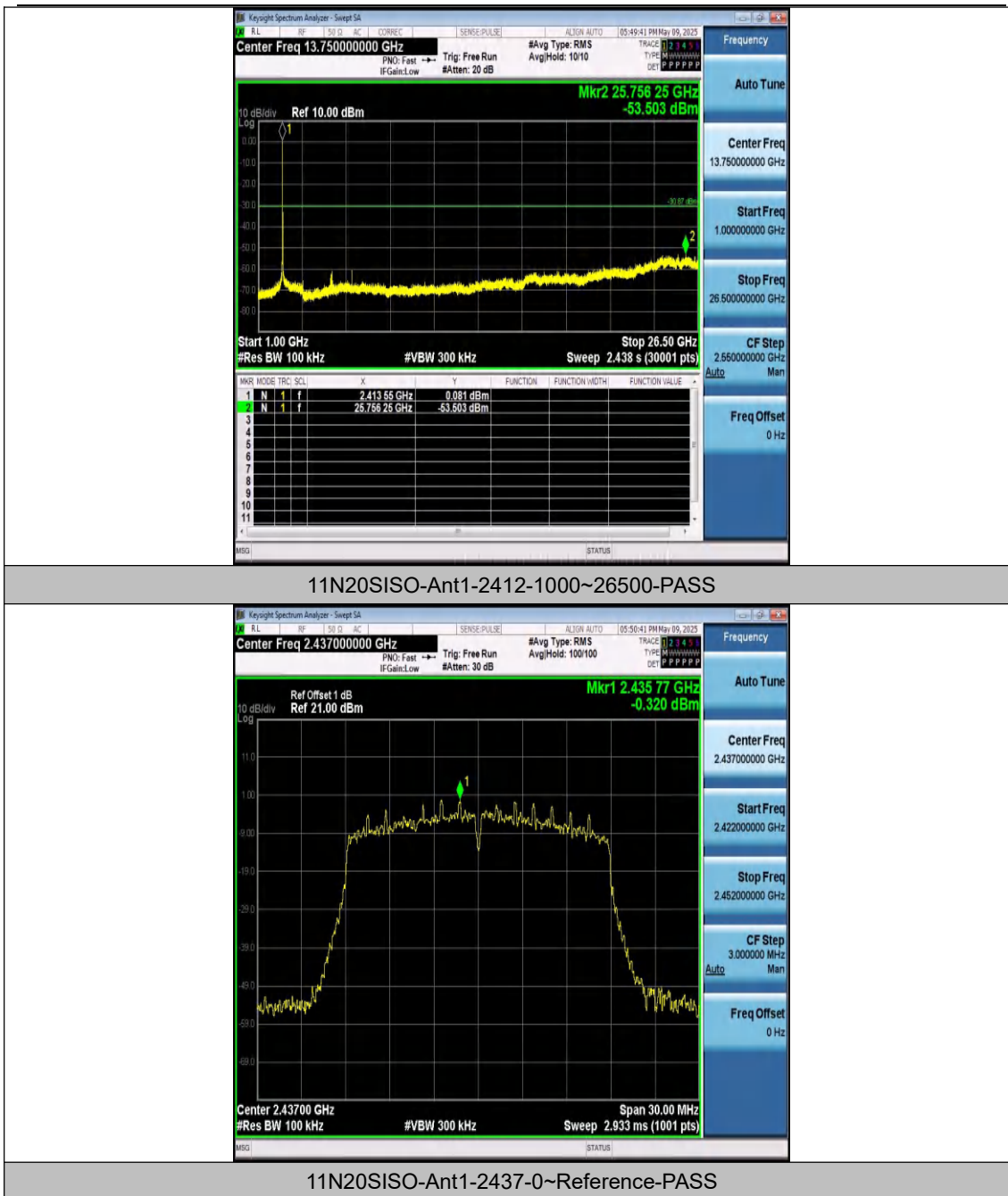


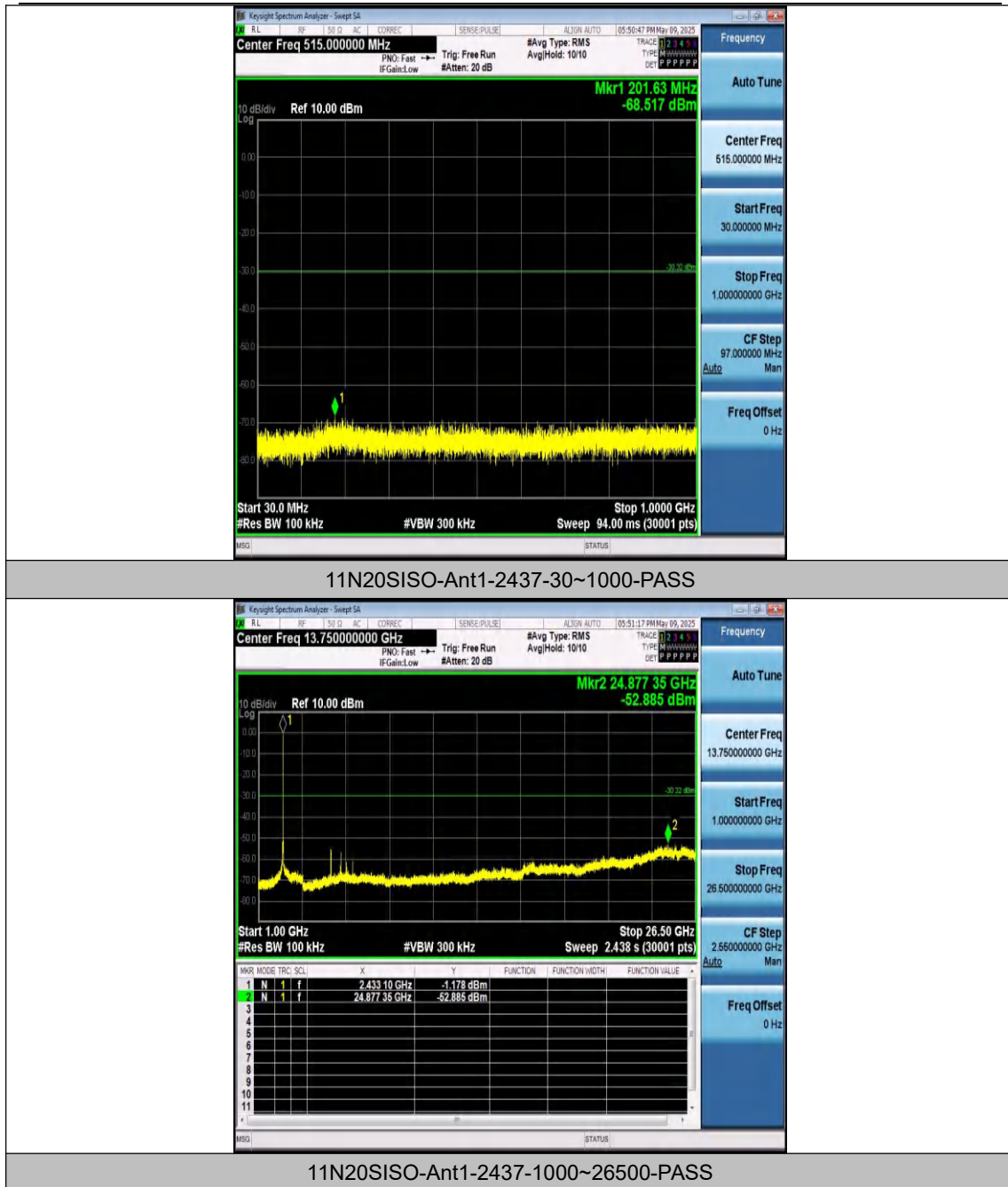


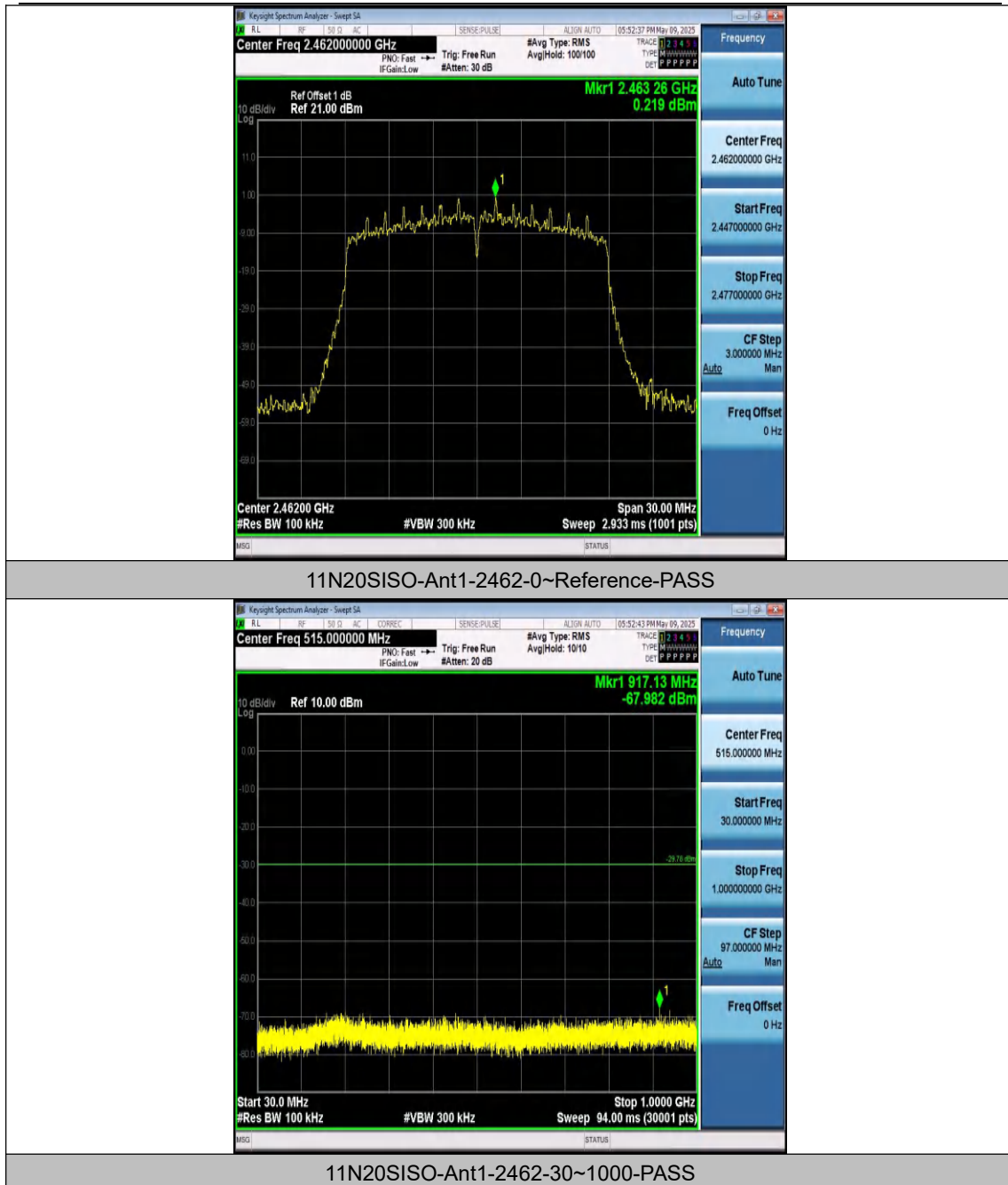
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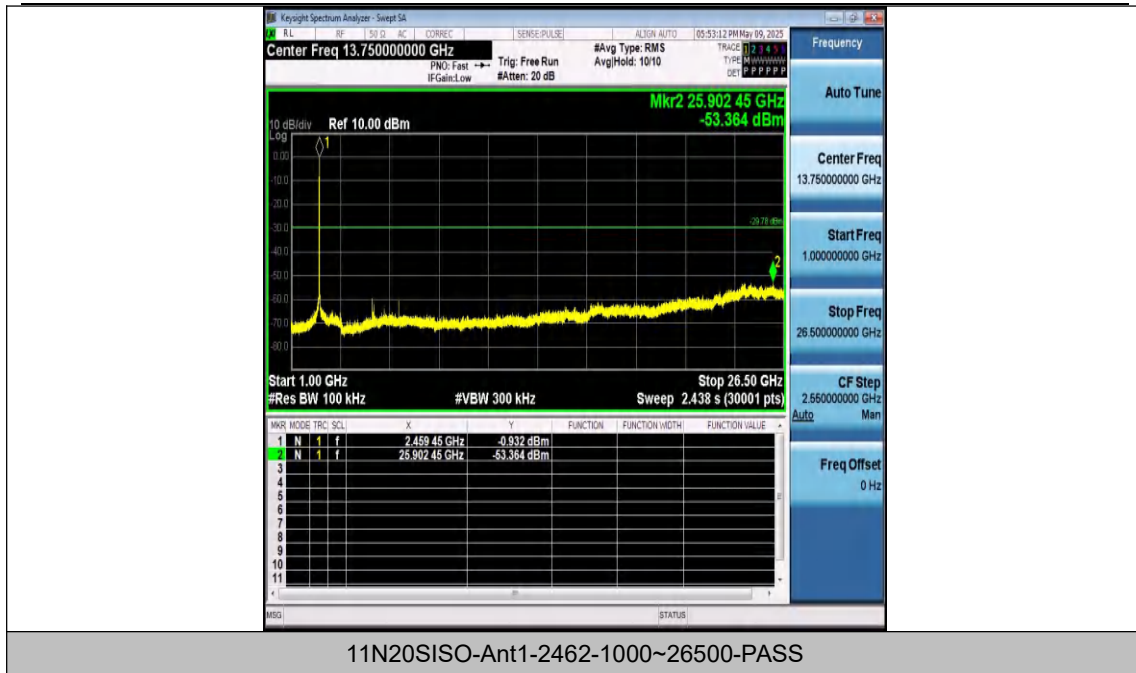




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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	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

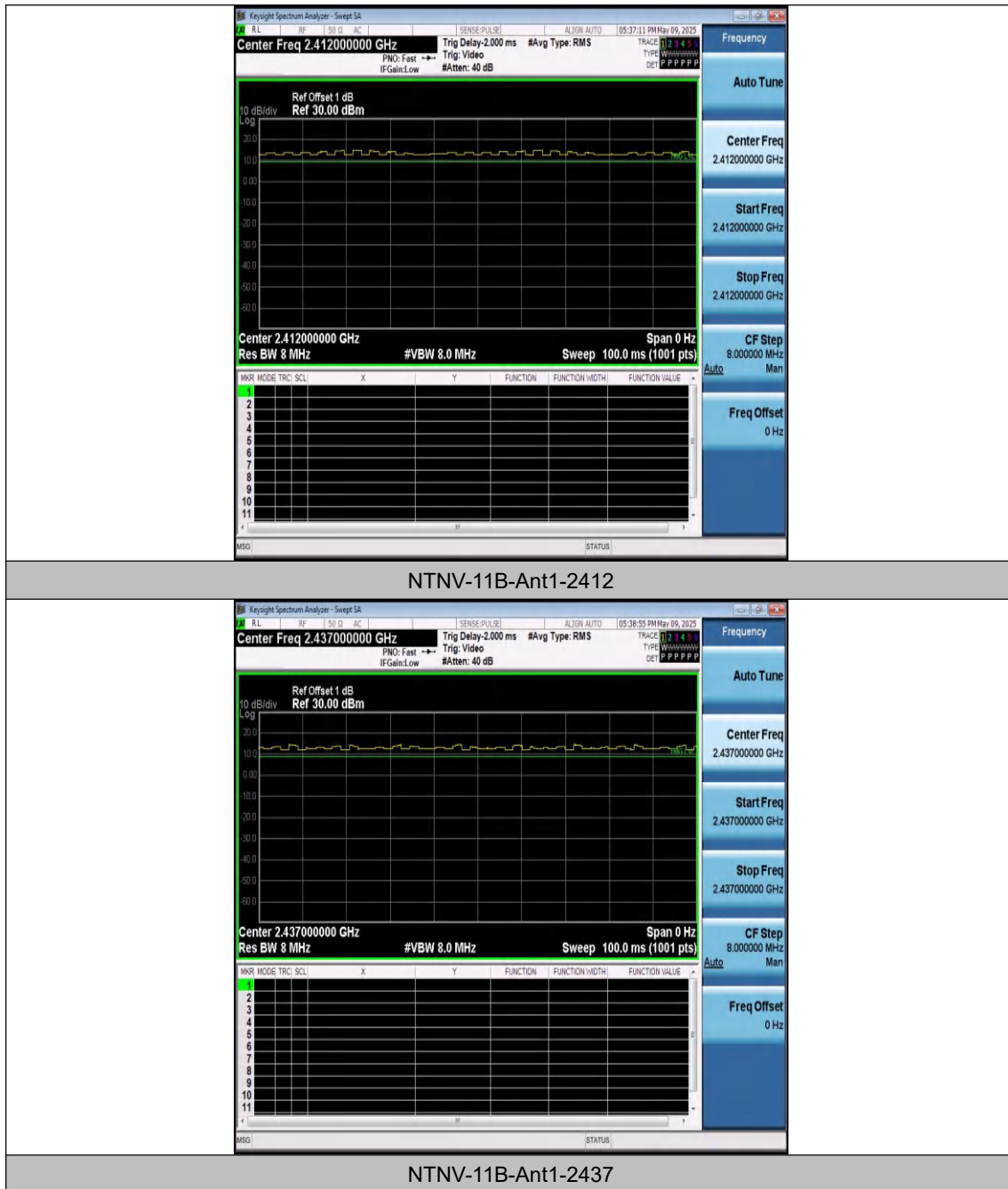
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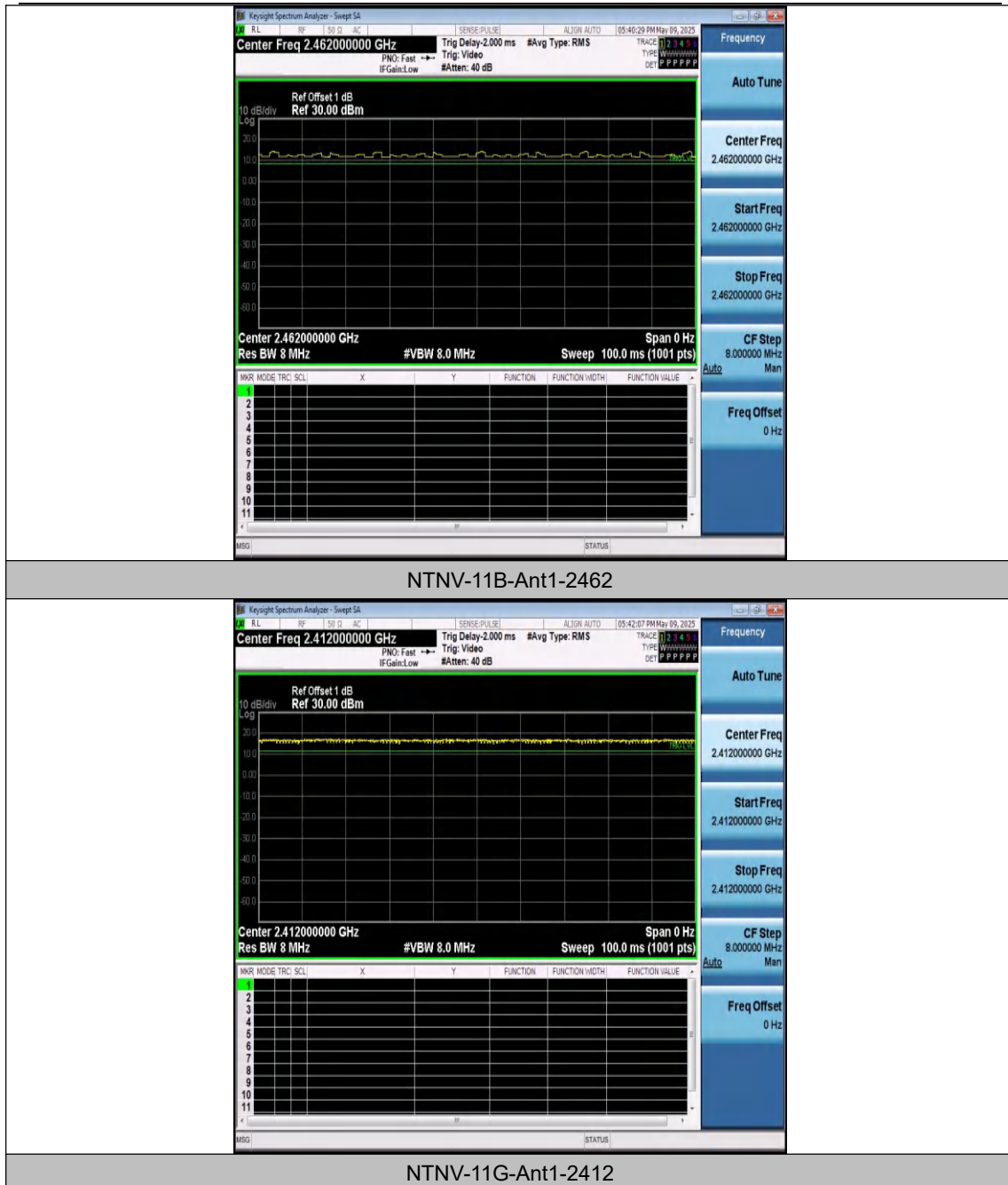
Test Graphs

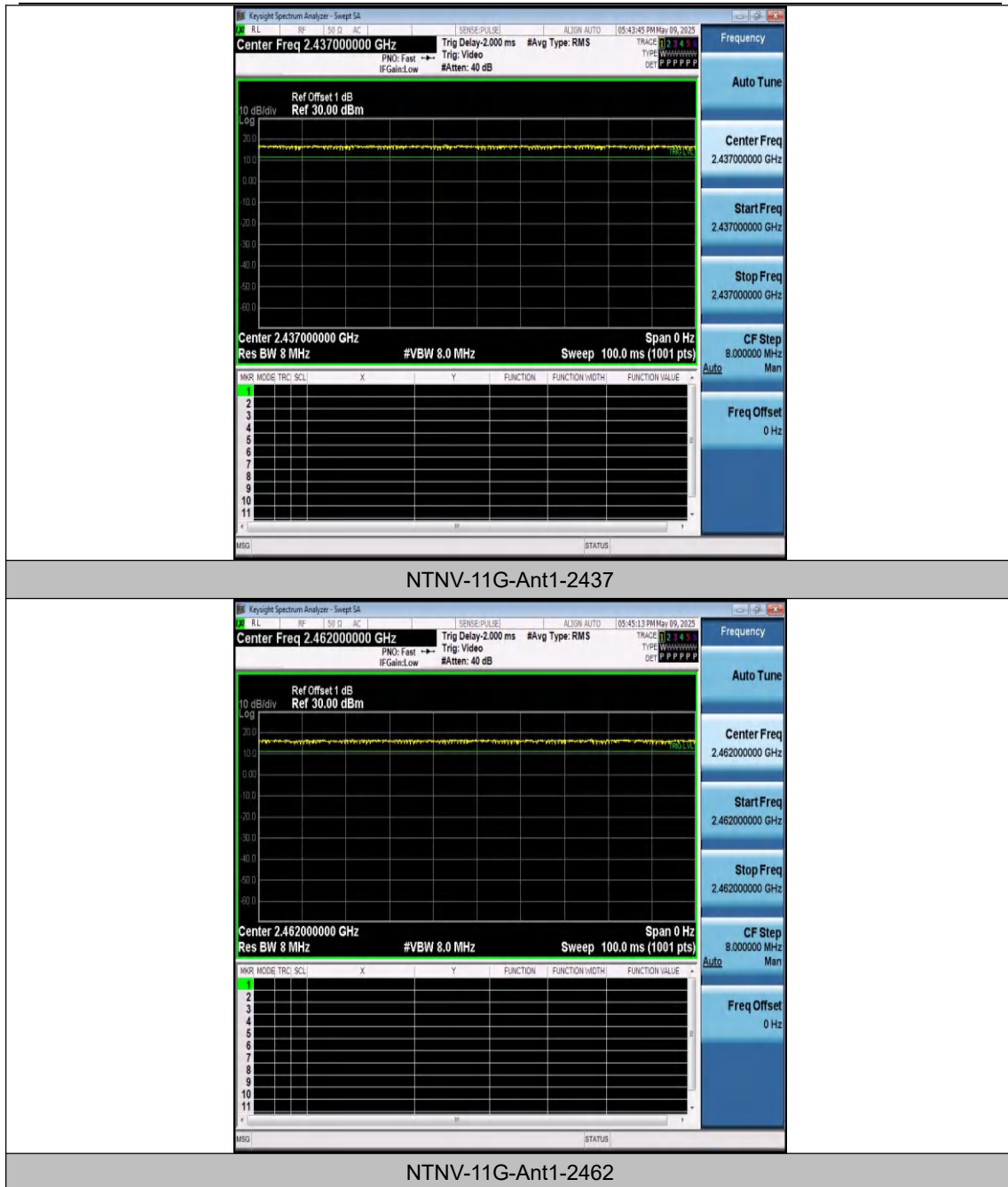


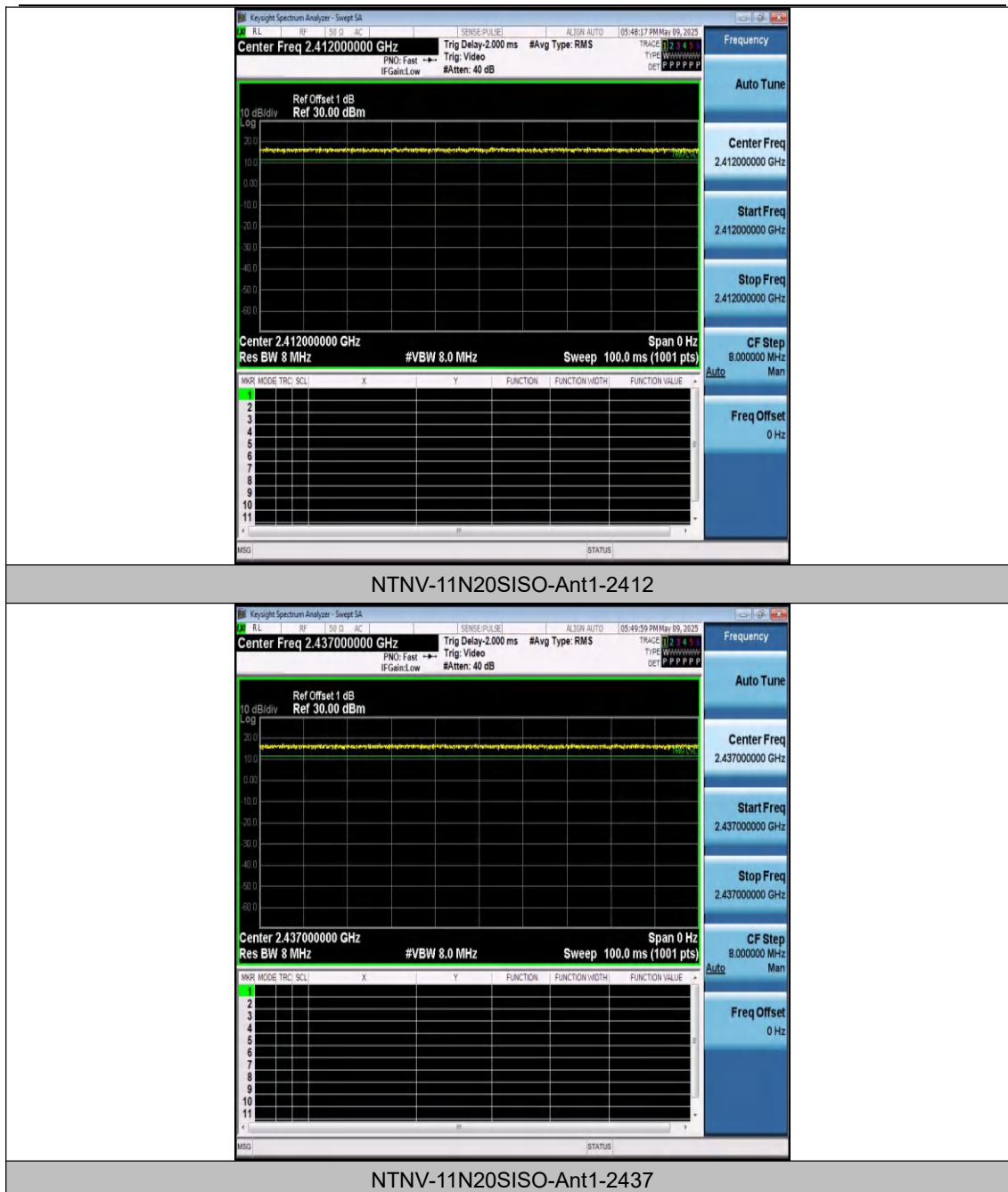
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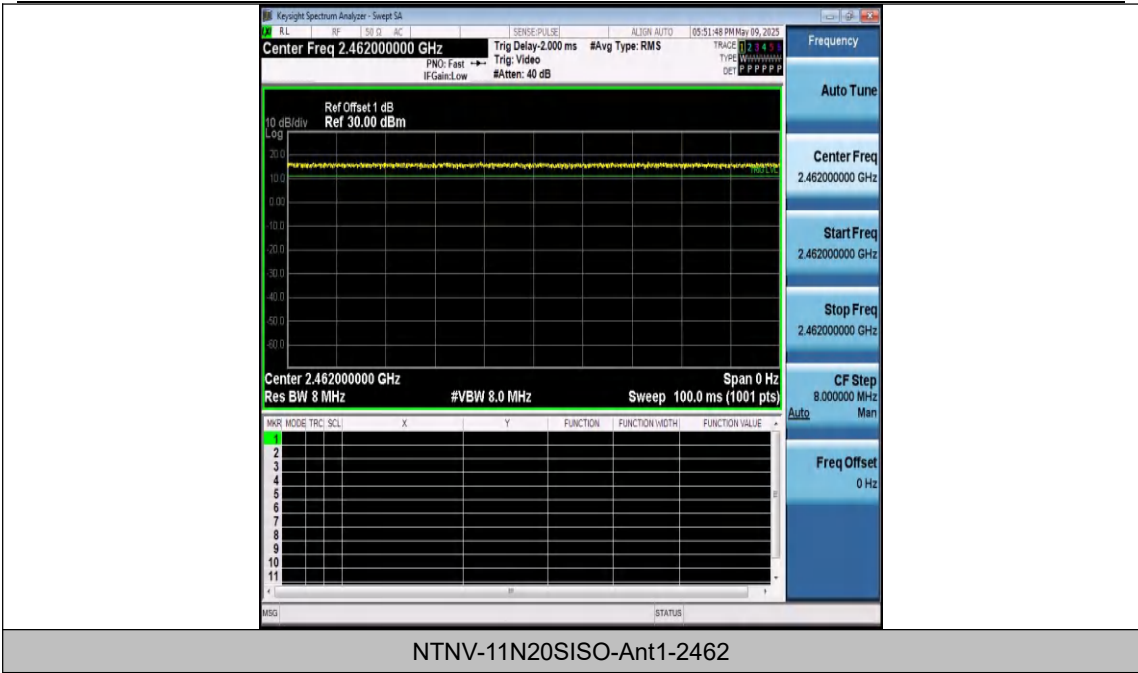
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