

Appendix Test Data

Report No.:	1814C50131912502	Test Sample No.:	1-2-2
Start Test Date:	2025-05-14	Finish Test Date:	2025--05-30
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.1°C	Relative Humidity:	51%
Pressure:	101kPa		

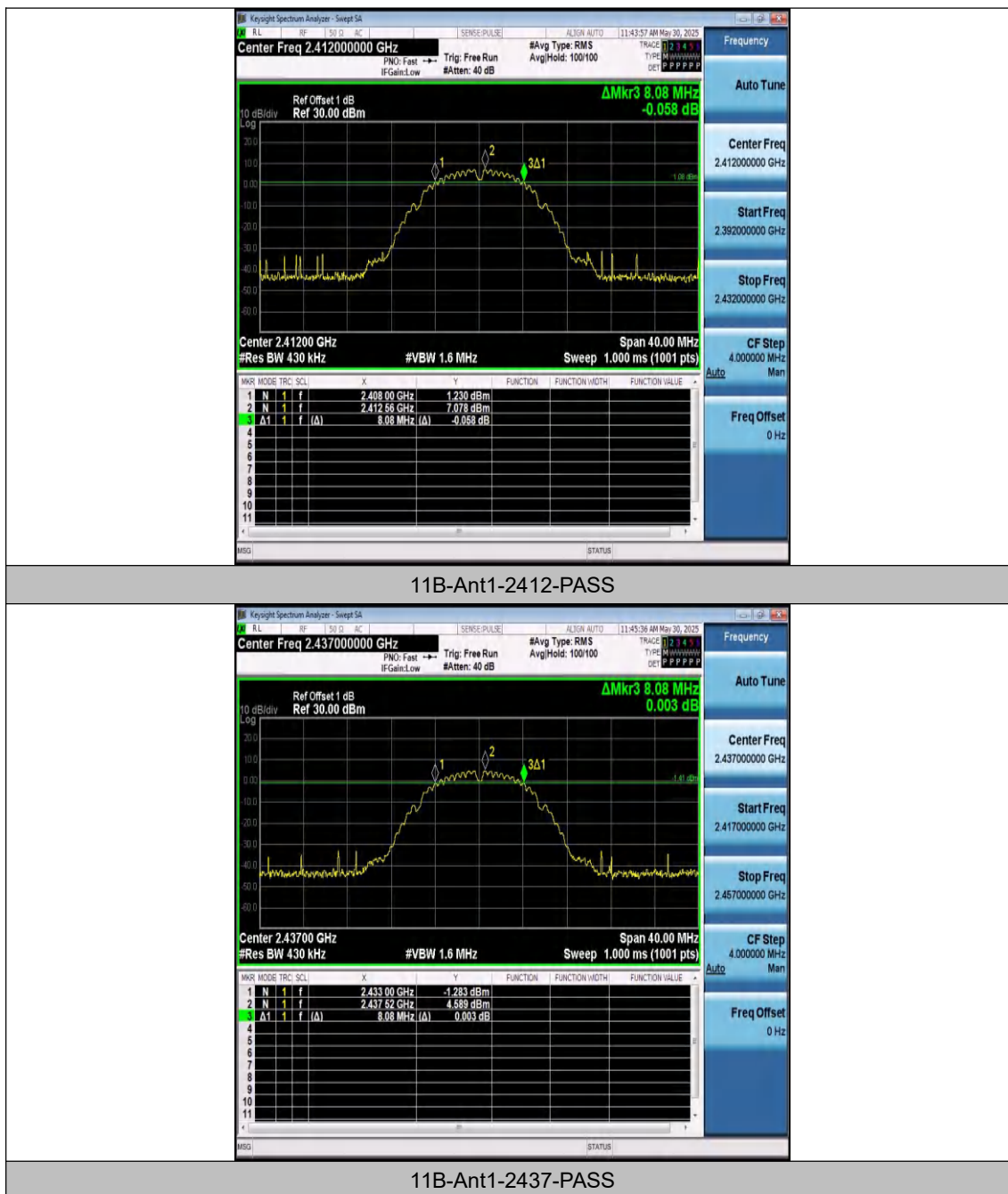
Appendix A: 6dB Bandwidth

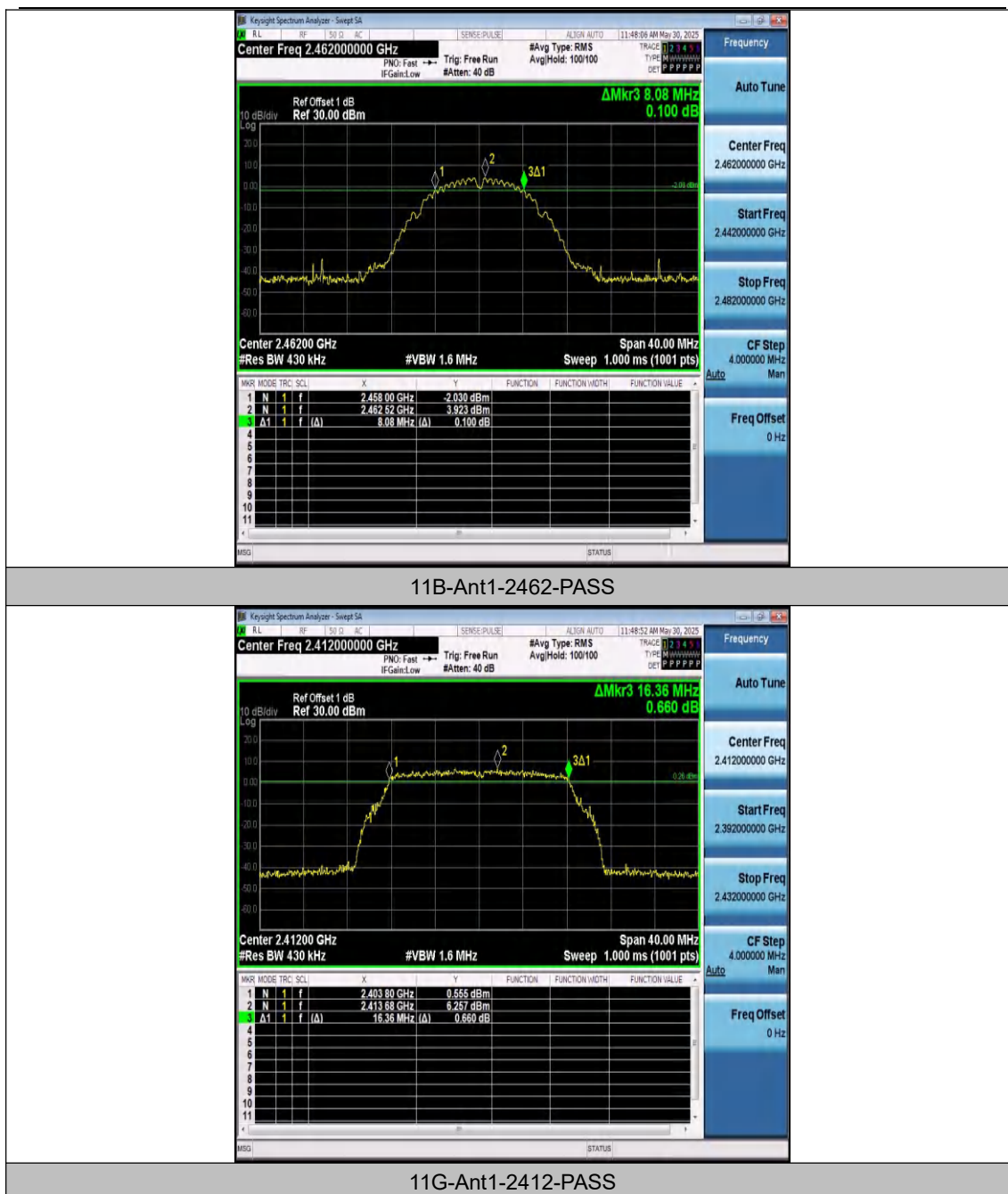
Test Result

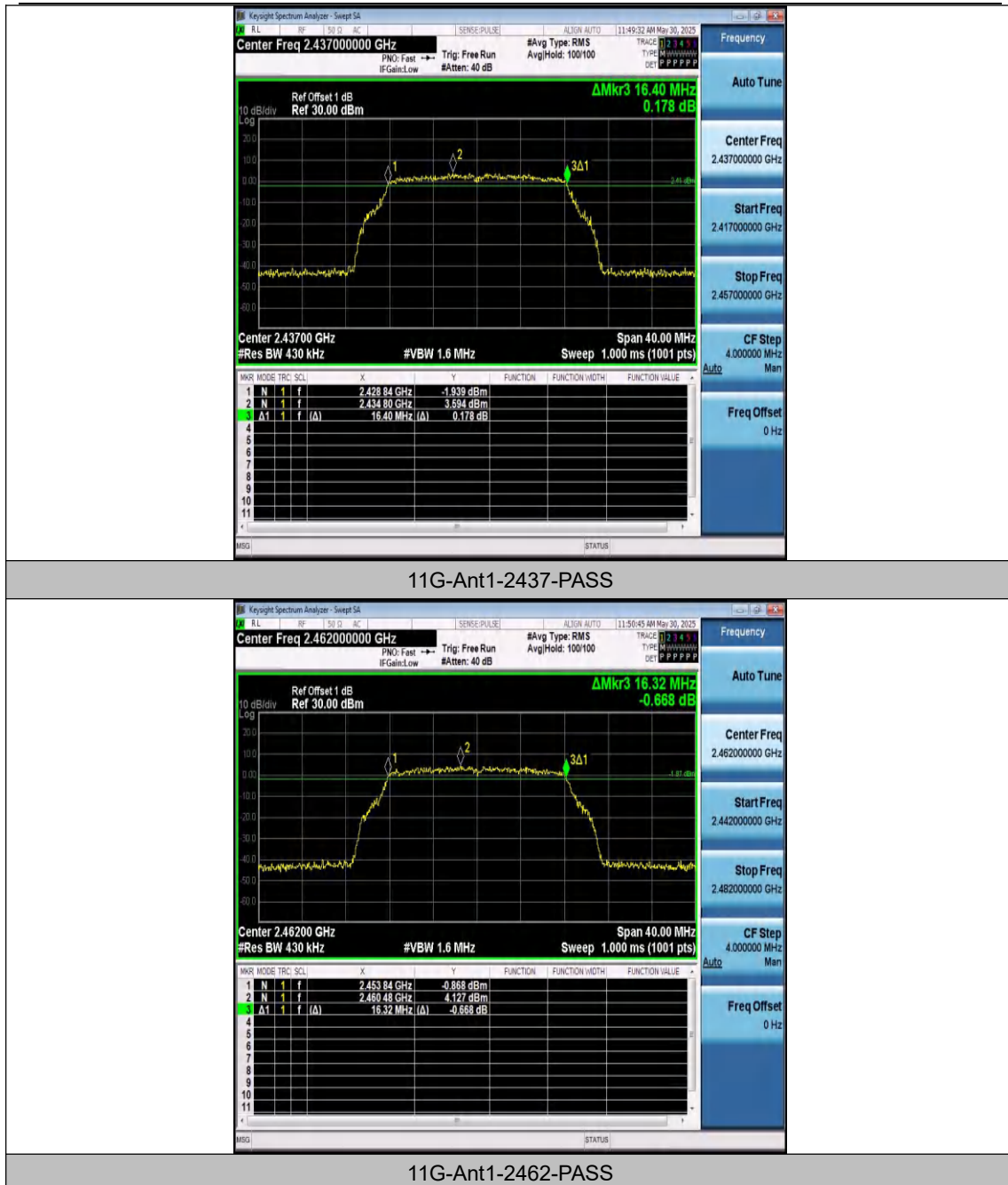
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2408.000	2416.080	0.5	PASS
11B	Ant1	2437	8.080	2433.000	2441.080	0.5	PASS
11B	Ant1	2462	8.080	2458.000	2466.080	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
11G	Ant1	2437	16.400	2428.840	2445.240	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.240	2420.840	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.240	2445.840	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.240	2470.840	0.5	PASS

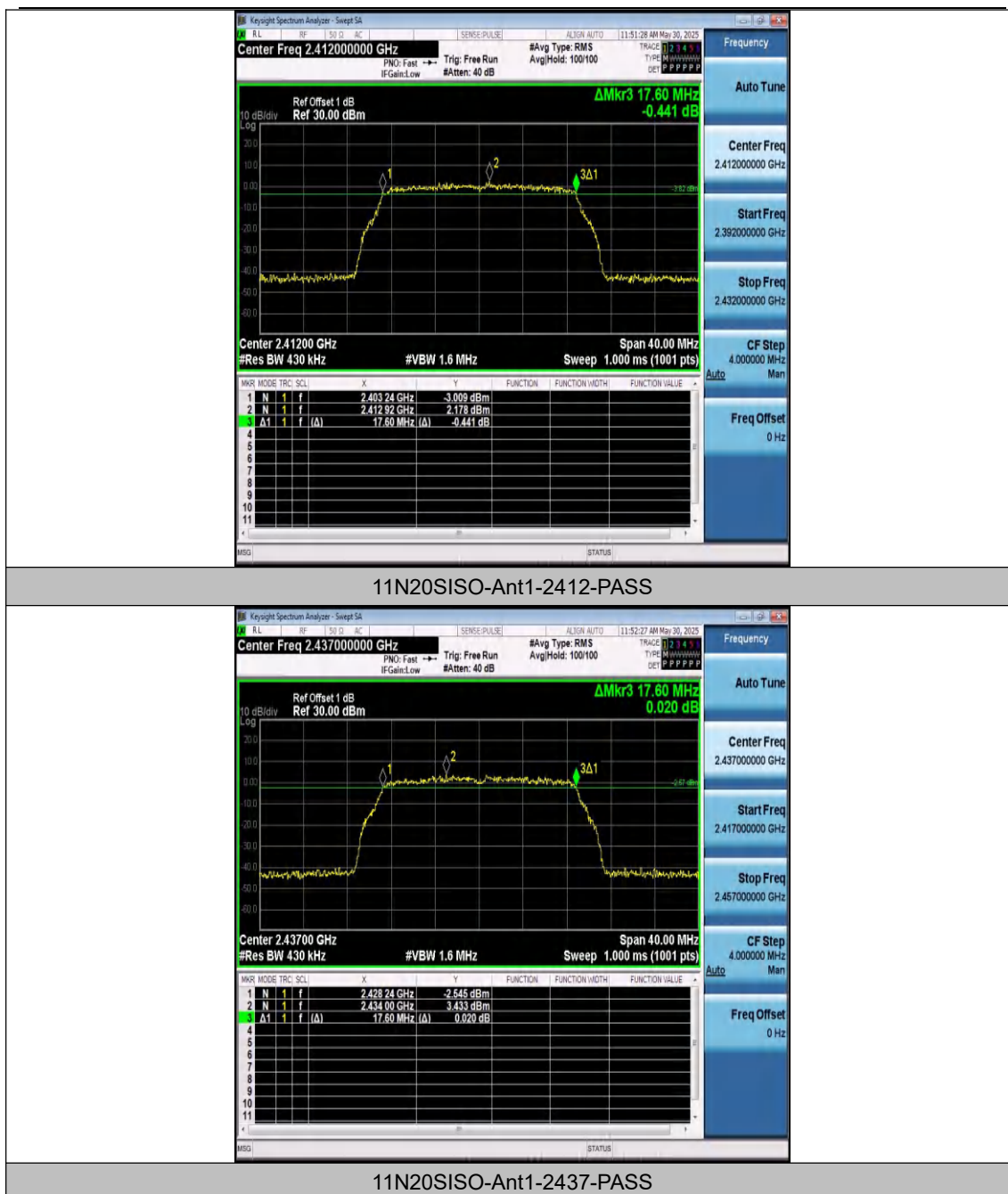


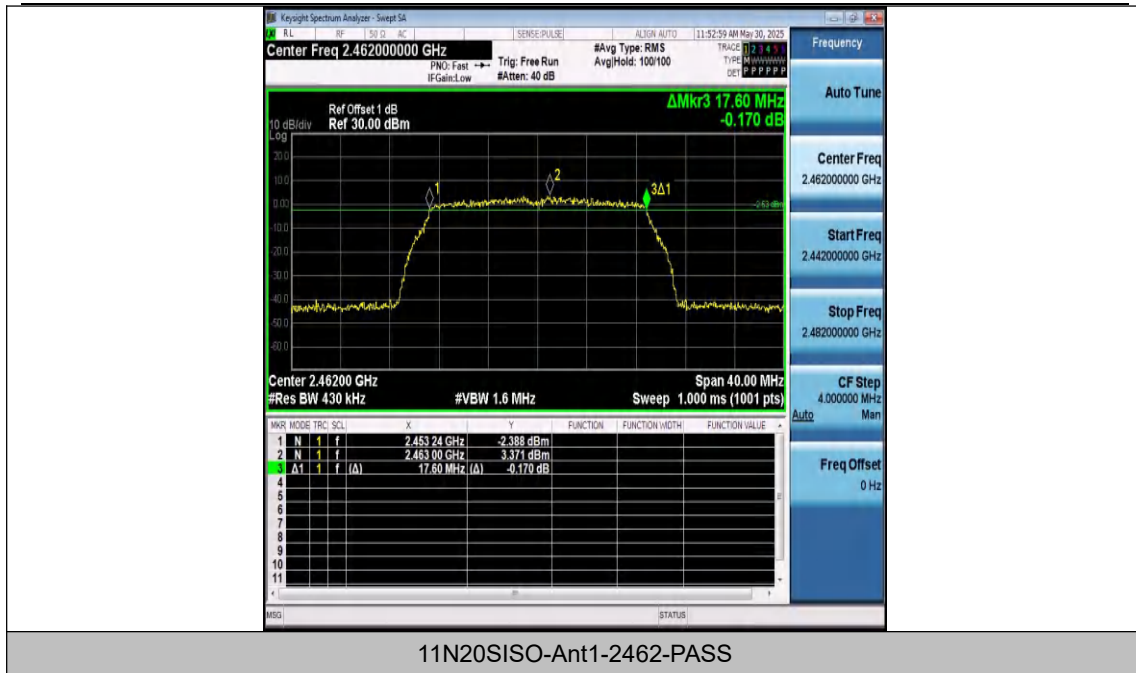
Test Graphs











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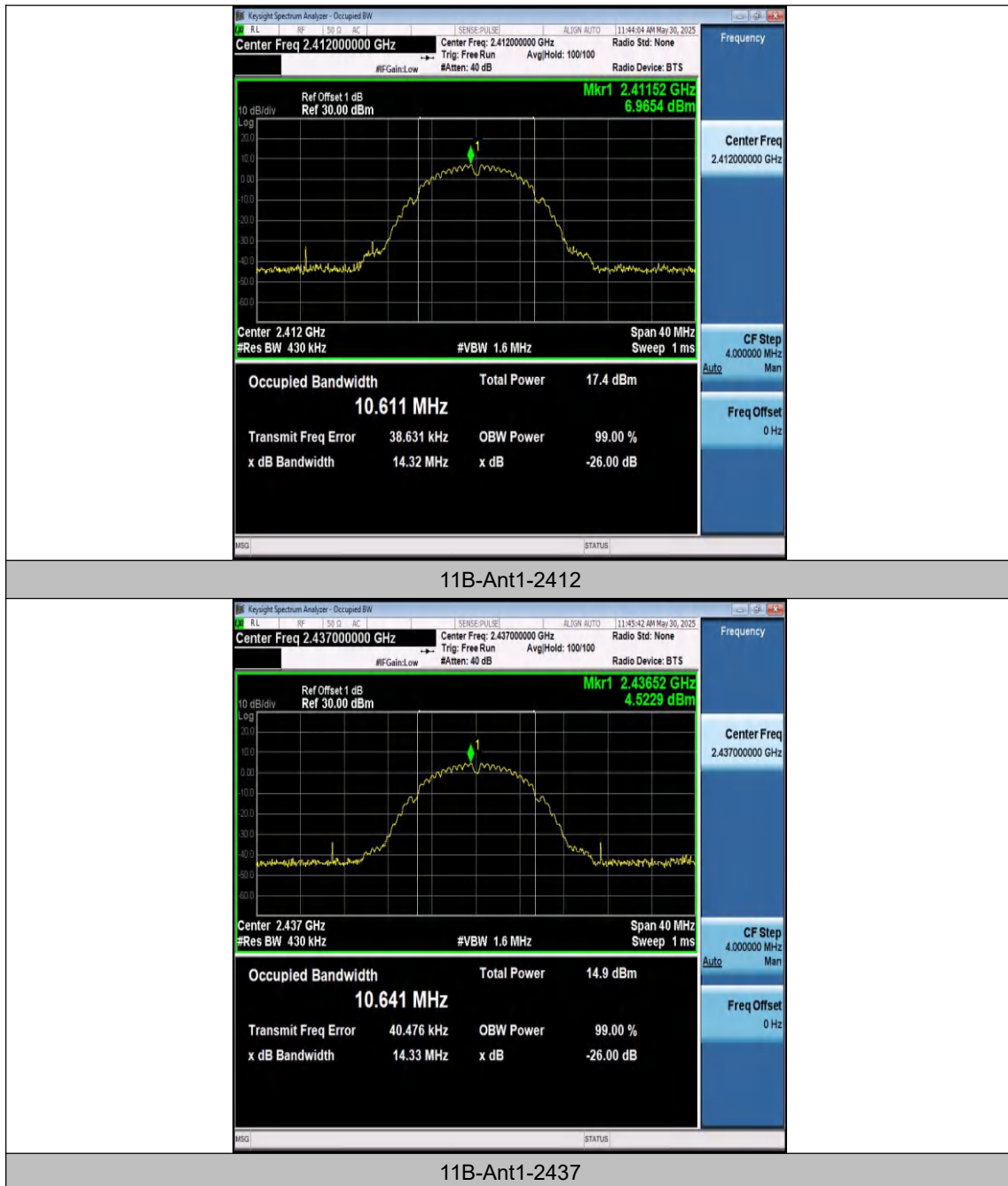
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.611	2406.7331	2417.3441	---	---
11B	Ant1	2437	10.641	2431.7200	2442.3610	---	---
11B	Ant1	2462	10.661	2456.7258	2467.3868	---	---
11G	Ant1	2412	17.020	2403.4990	2420.5190	---	---
11G	Ant1	2437	16.915	2428.5784	2445.4934	---	---
11G	Ant1	2462	16.905	2453.5919	2470.4969	---	---
11N20SISO	Ant1	2412	17.963	2403.0610	2421.0240	---	---
11N20SISO	Ant1	2437	17.990	2428.0321	2446.0221	---	---
11N20SISO	Ant1	2462	17.947	2453.0607	2471.0077	---	---

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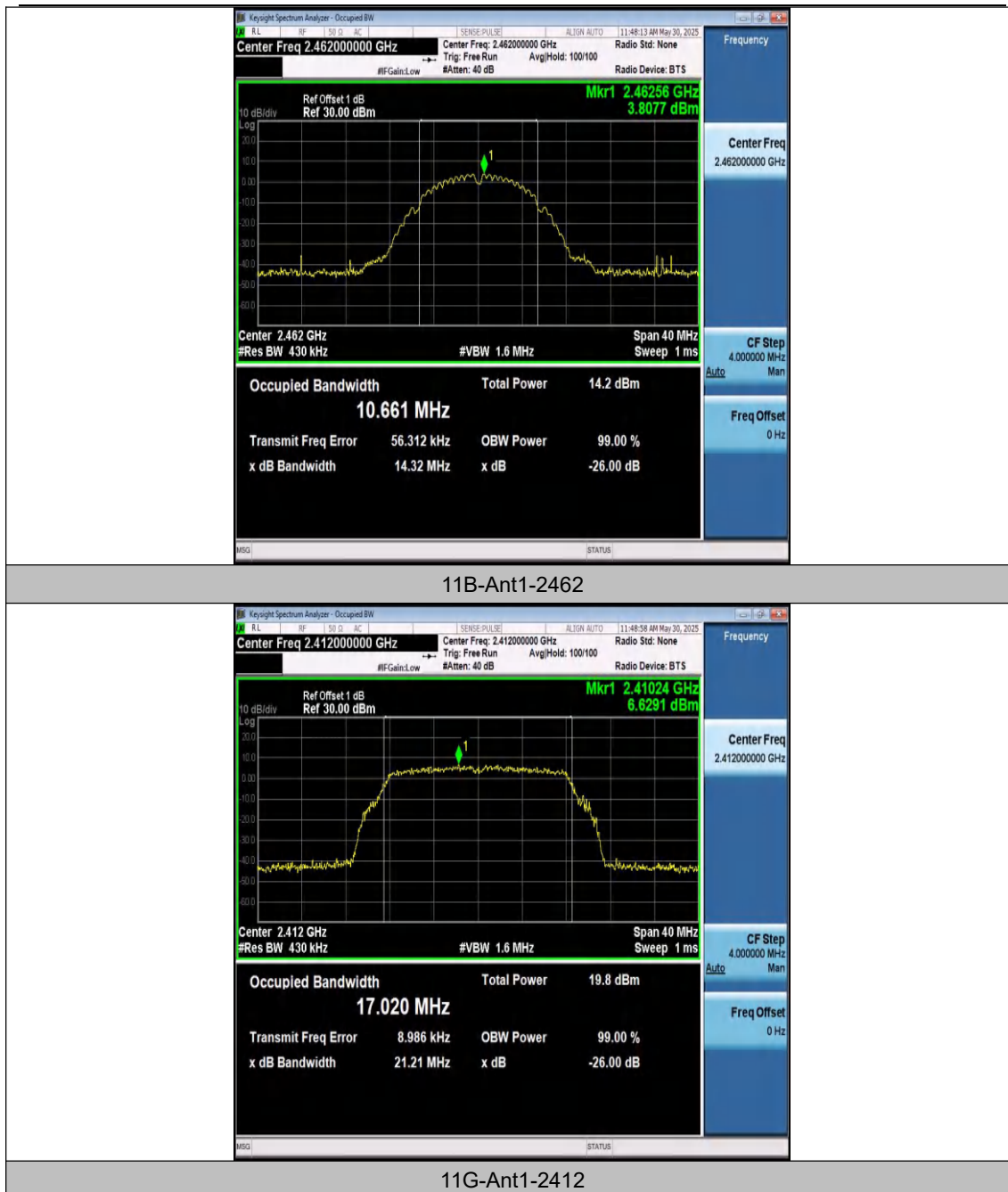
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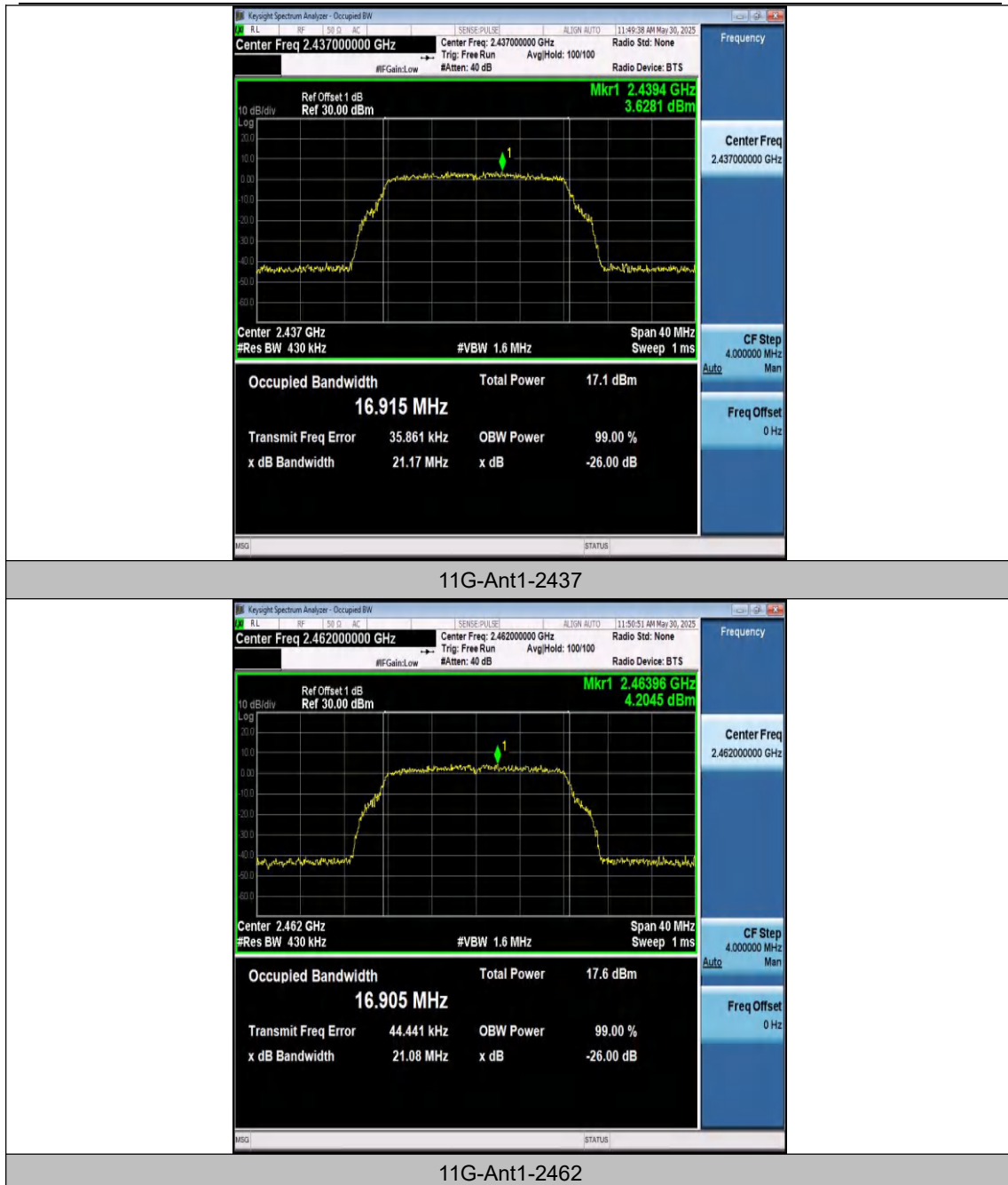


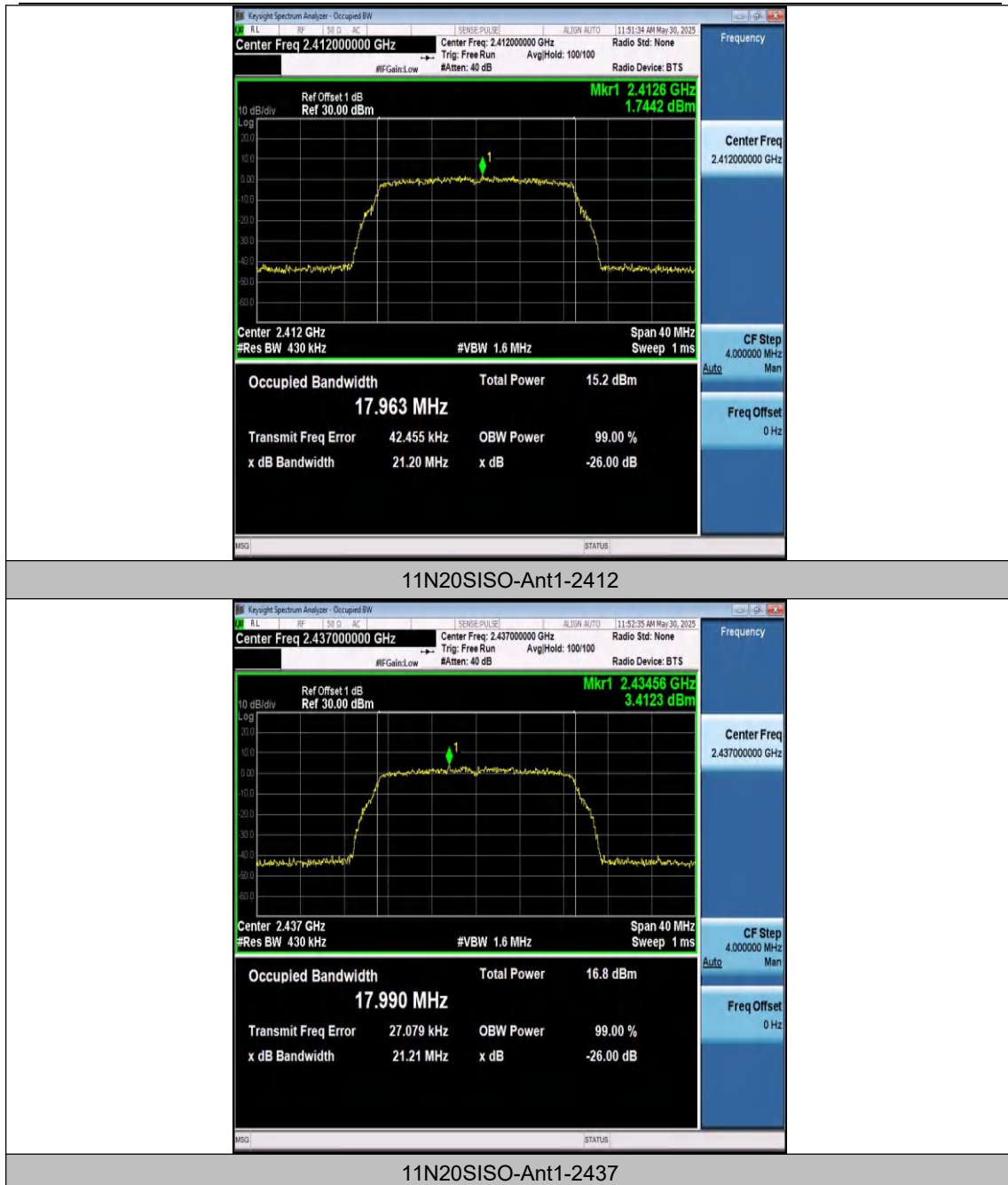
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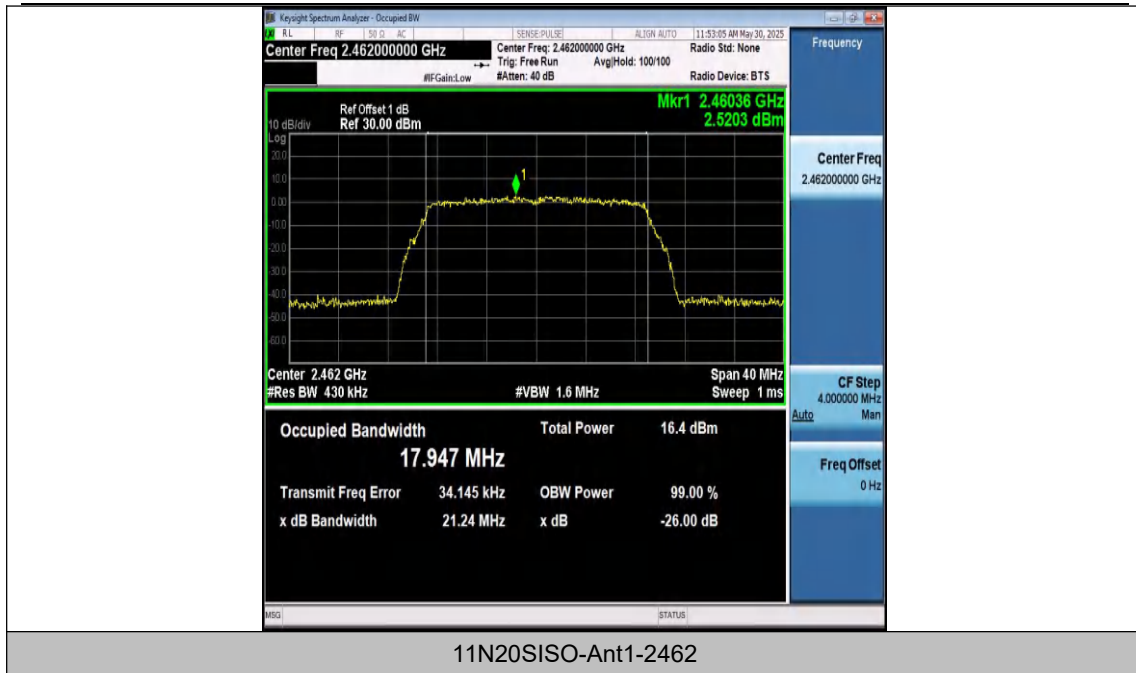
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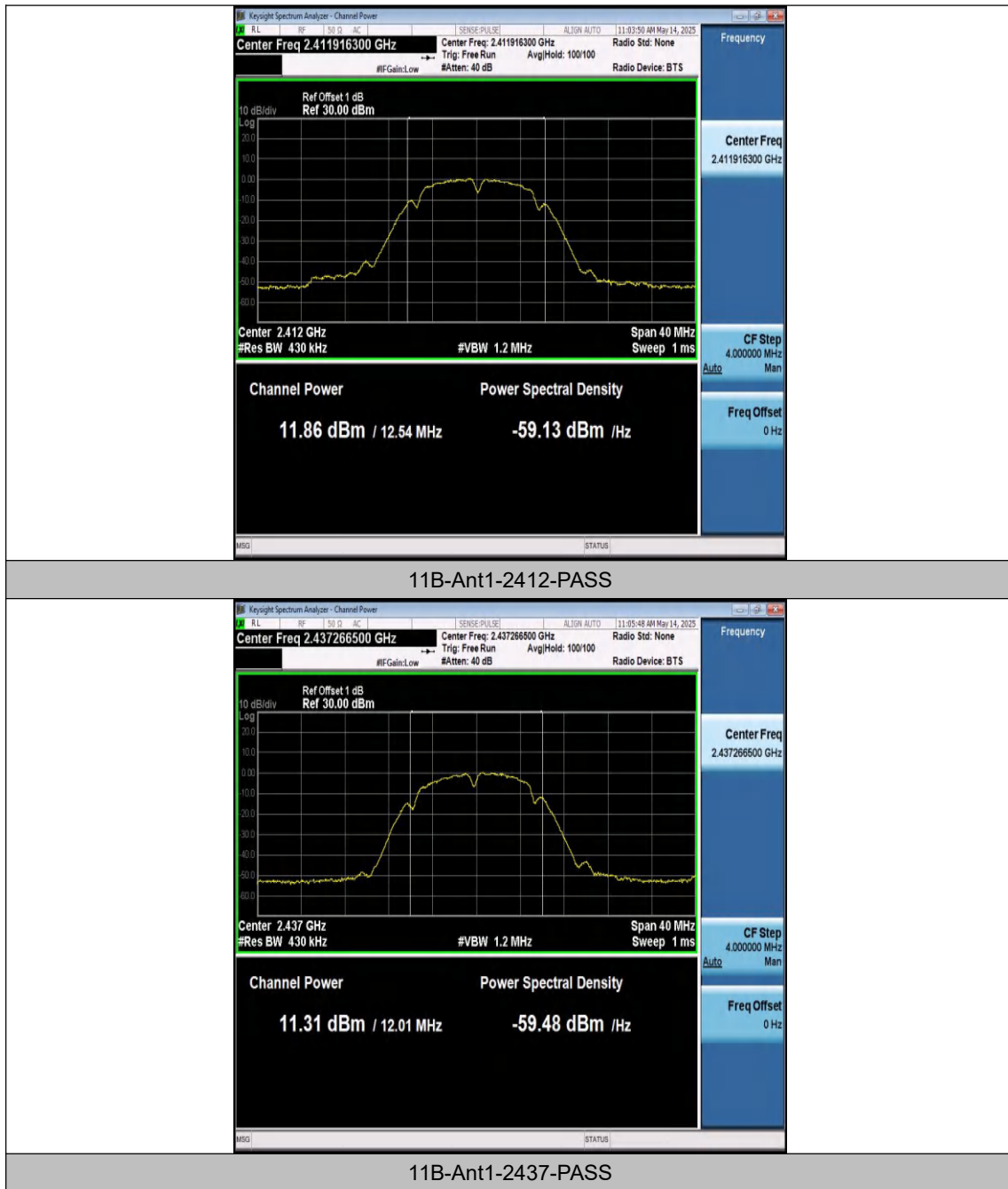
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	11.86	100.00	0.00	11.86	≤30.0 0	PASS
11B	Ant1	2437	11.31	100.00	0.00	11.31	≤30.0 0	PASS
11B	Ant1	2462	11.59	100.00	0.00	11.59	≤30.0 0	PASS
11G	Ant1	2412	10.43	100.00	0.00	10.43	≤30.0 0	PASS
11G	Ant1	2437	10.38	100.00	0.00	10.38	≤30.0 0	PASS
11G	Ant1	2462	10.83	100.00	0.00	10.83	≤30.0 0	PASS
11N20SI SO	Ant1	2412	10.49	100.00	0.00	10.49	≤30.0 0	PASS
11N20SI SO	Ant1	2437	9.78	100.00	0.00	9.78	≤30.0 0	PASS
11N20SI SO	Ant1	2462	11.06	100.00	0.00	11.06	≤30.0 0	PASS

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

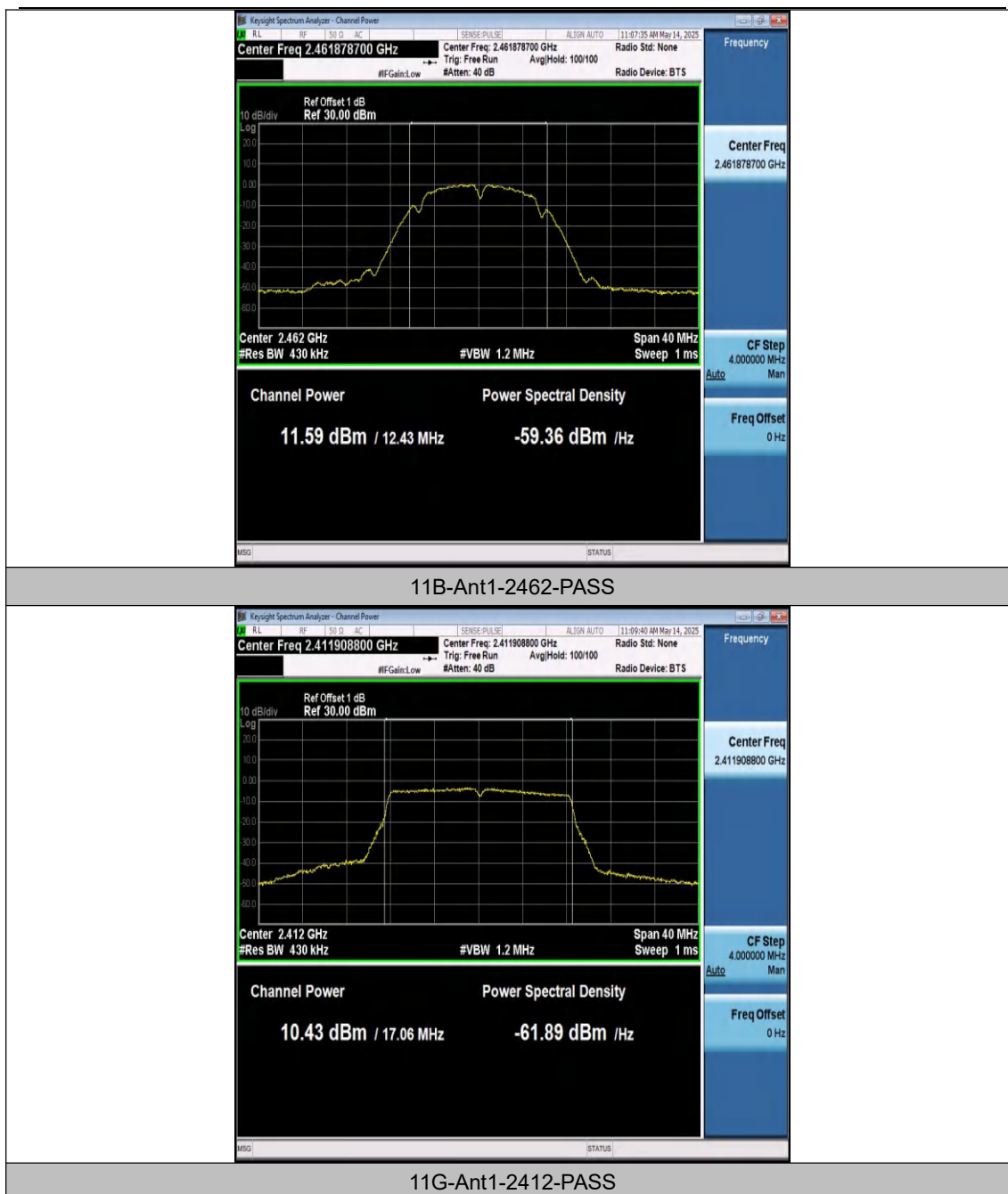
Test Graphs Average

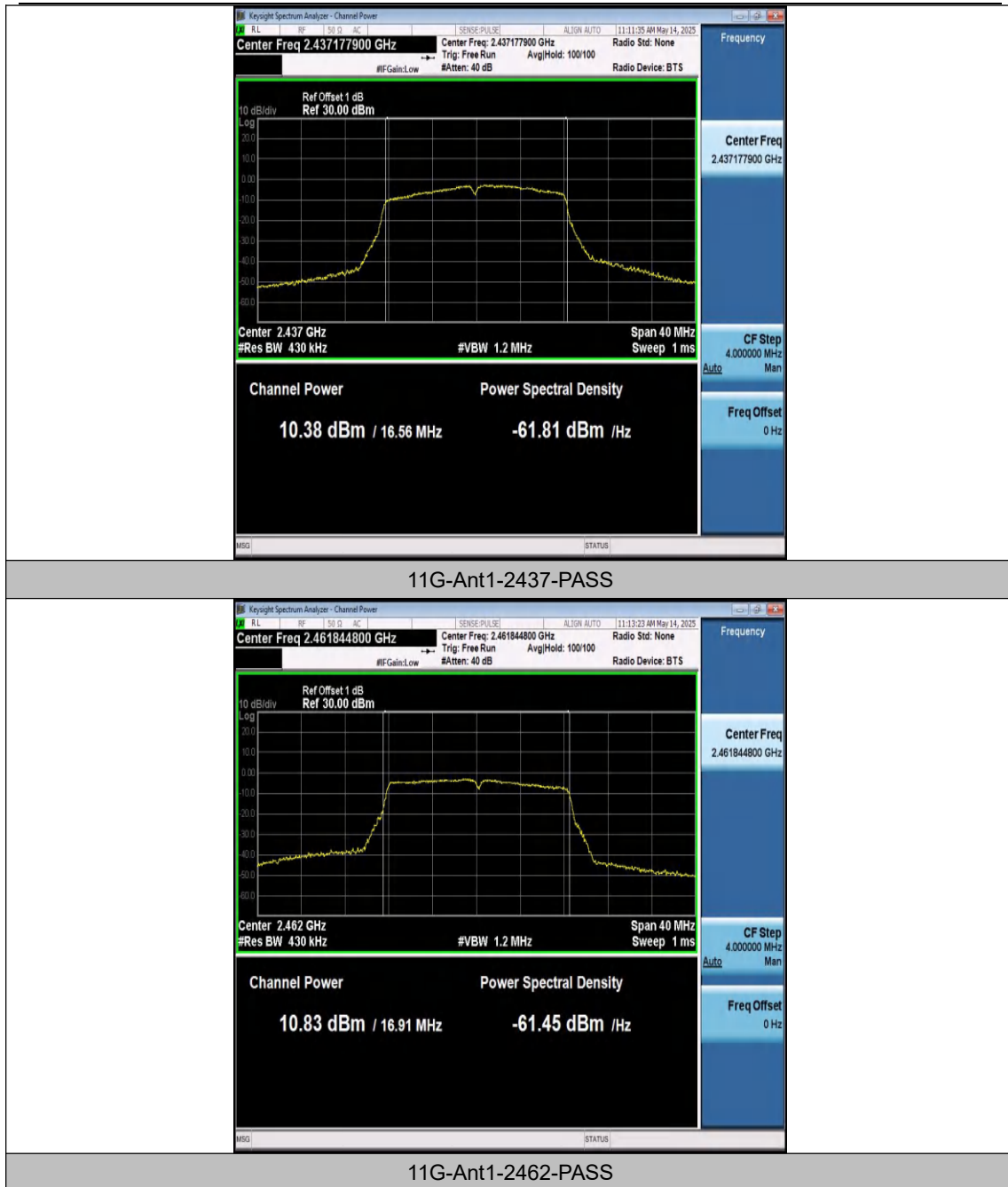


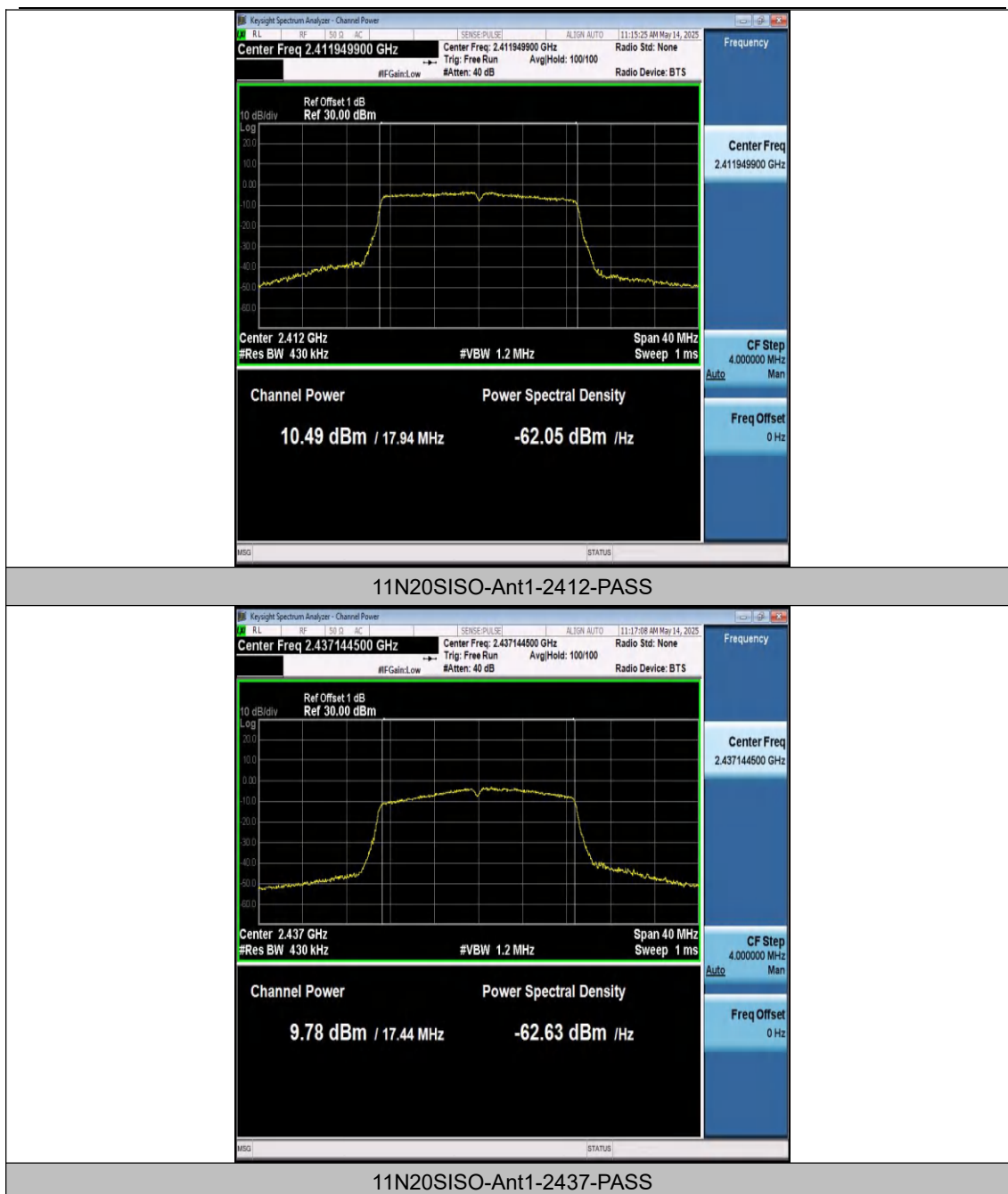
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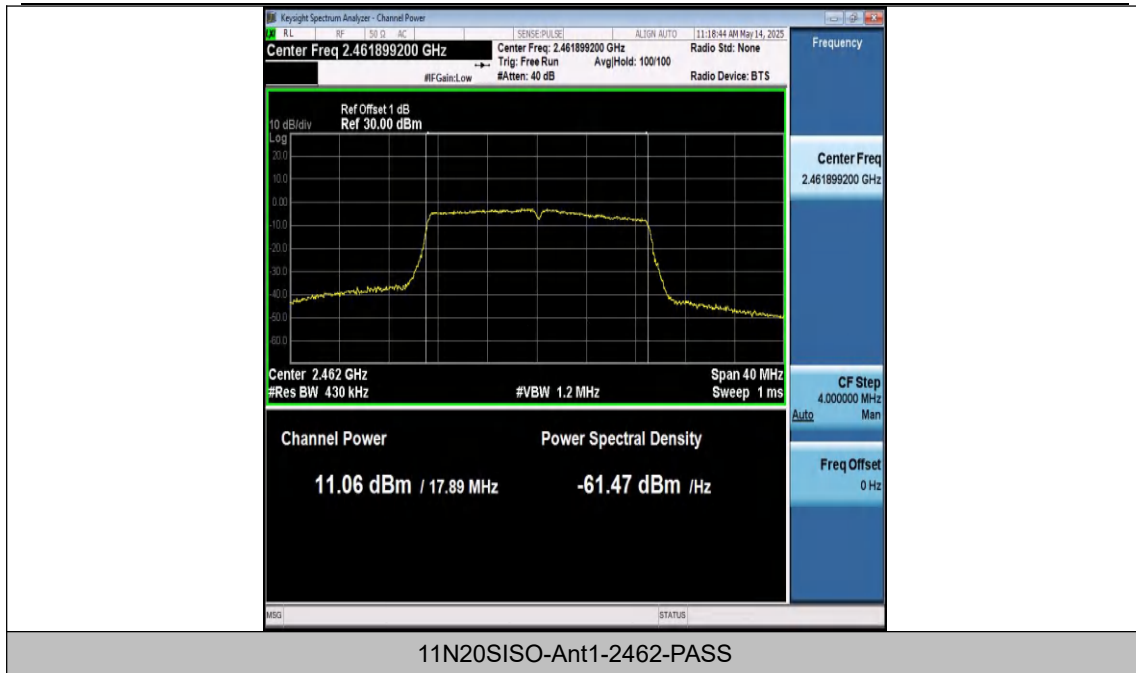
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Appendix D: Maximum power spectral density

Test Result

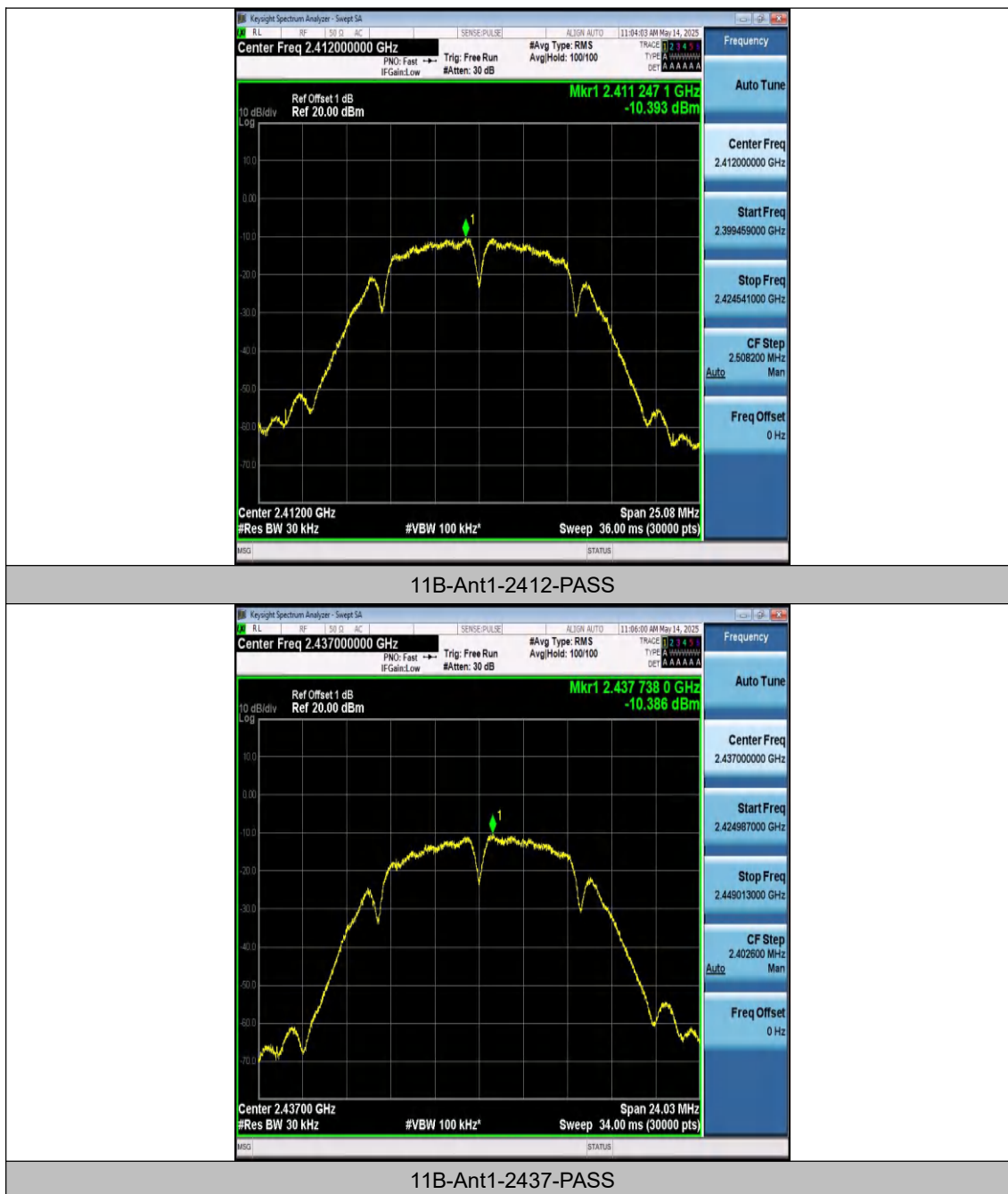
Test Mode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.39	-20.39	≤8.00	PASS
11B	Ant1	2437	-10.39	-20.39	≤8.00	PASS
11B	Ant1	2462	-10.04	-20.04	≤8.00	PASS
11G	Ant1	2412	-12.22	-22.22	≤8.00	PASS
11G	Ant1	2437	-12.34	-22.34	≤8.00	PASS
11G	Ant1	2462	-12.94	-22.94	≤8.00	PASS
11N20SIS O	Ant1	2412	-13.39	-23.39	≤8.00	PASS
11N20SIS O	Ant1	2437	-13.56	-23.56	≤8.00	PASS
11N20SIS O	Ant1	2462	-13.01	-23.01	≤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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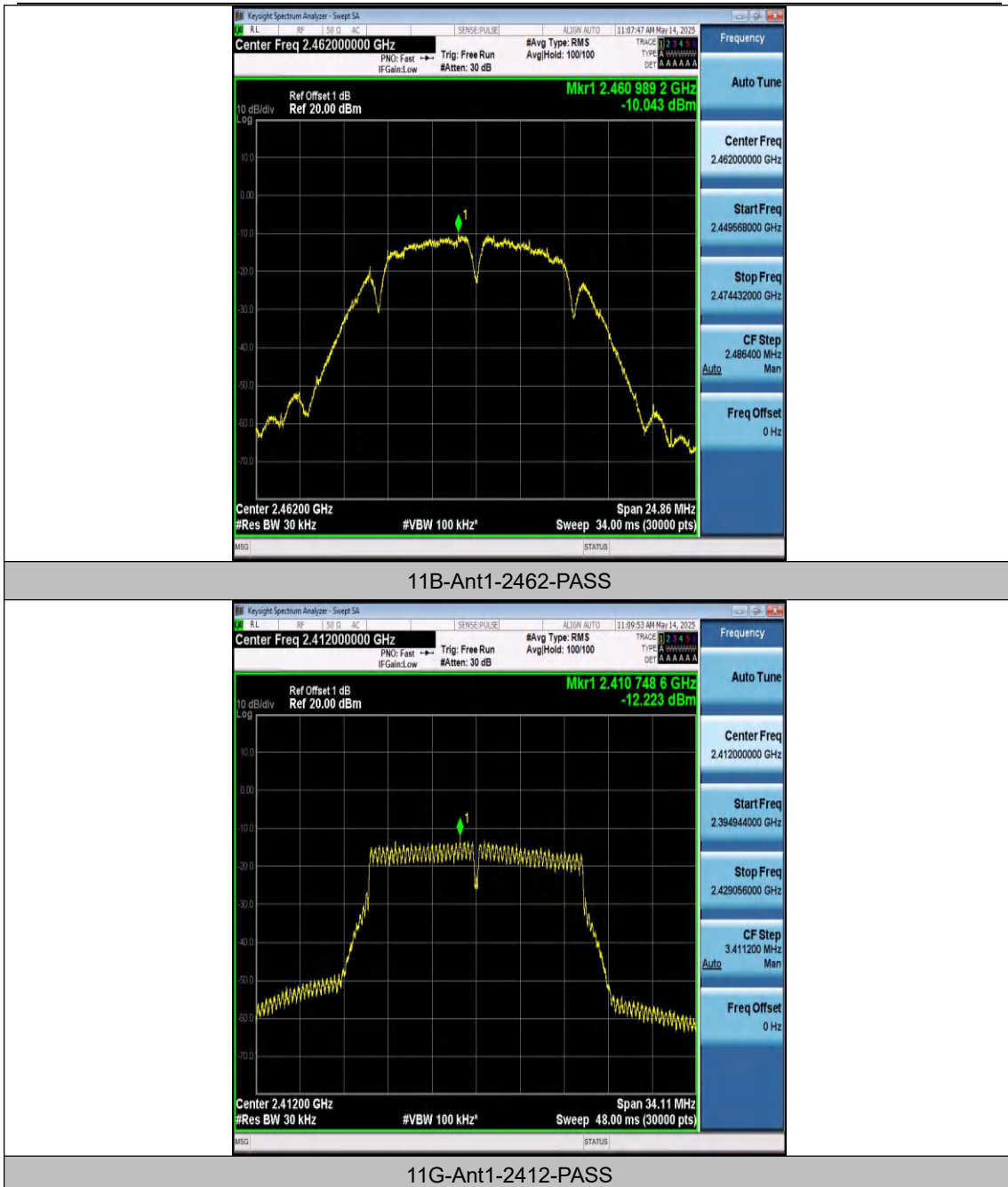
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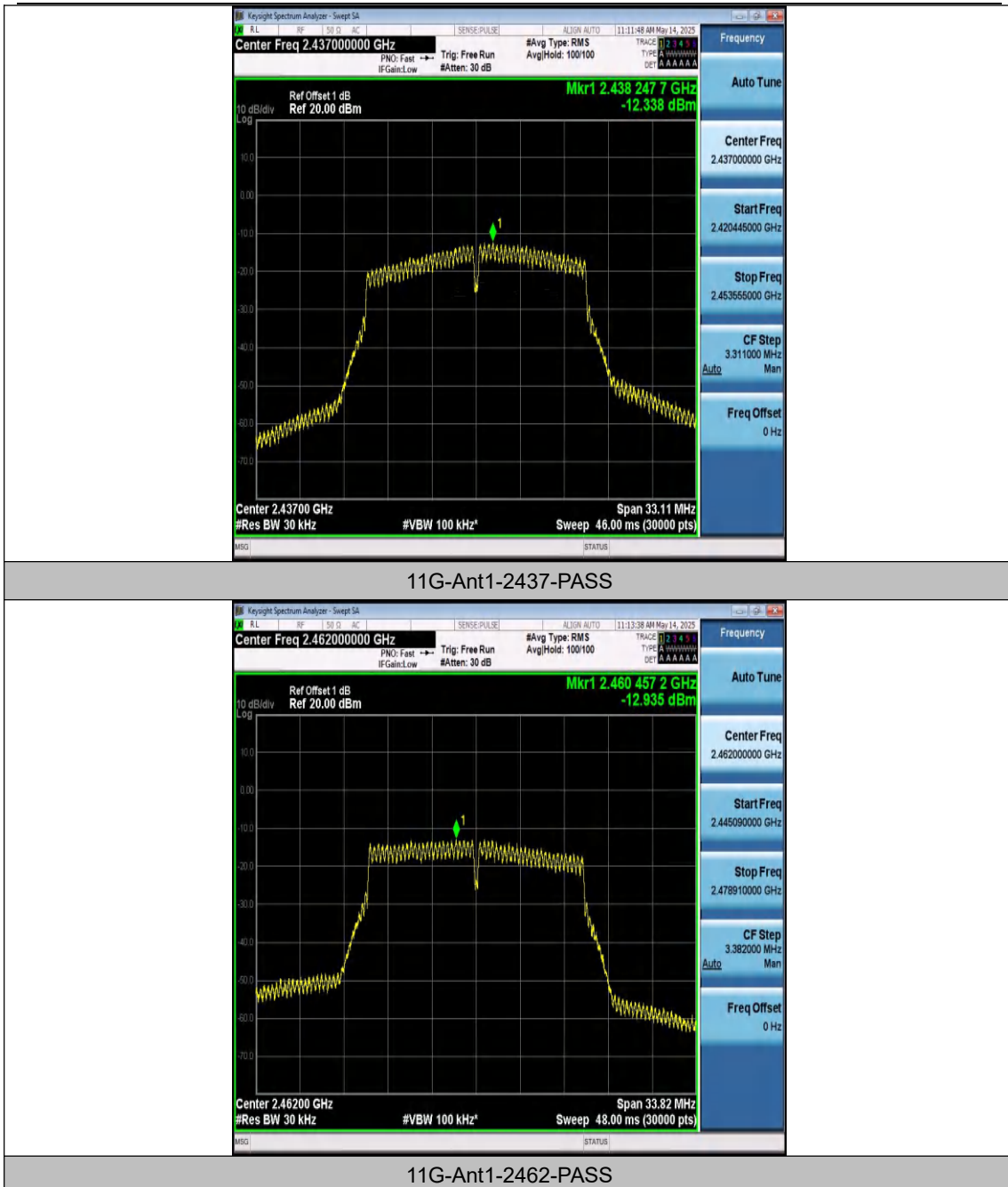


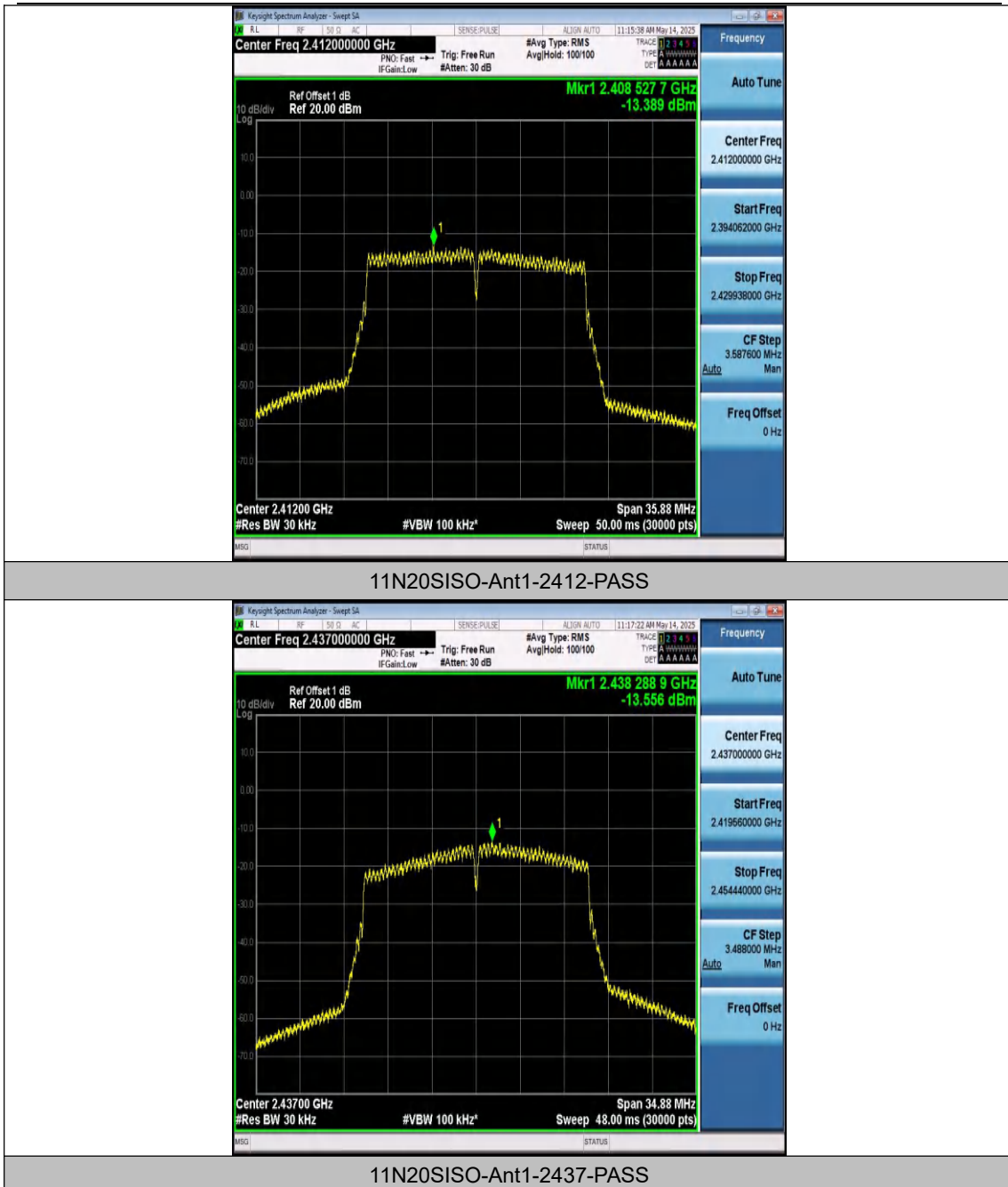
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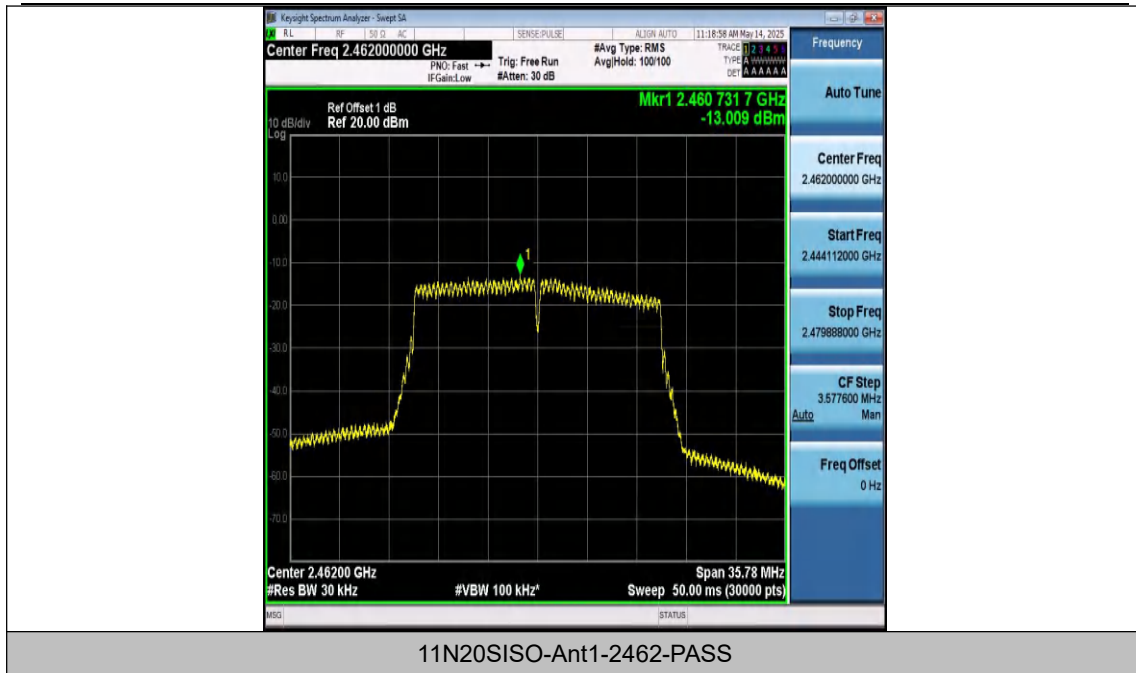




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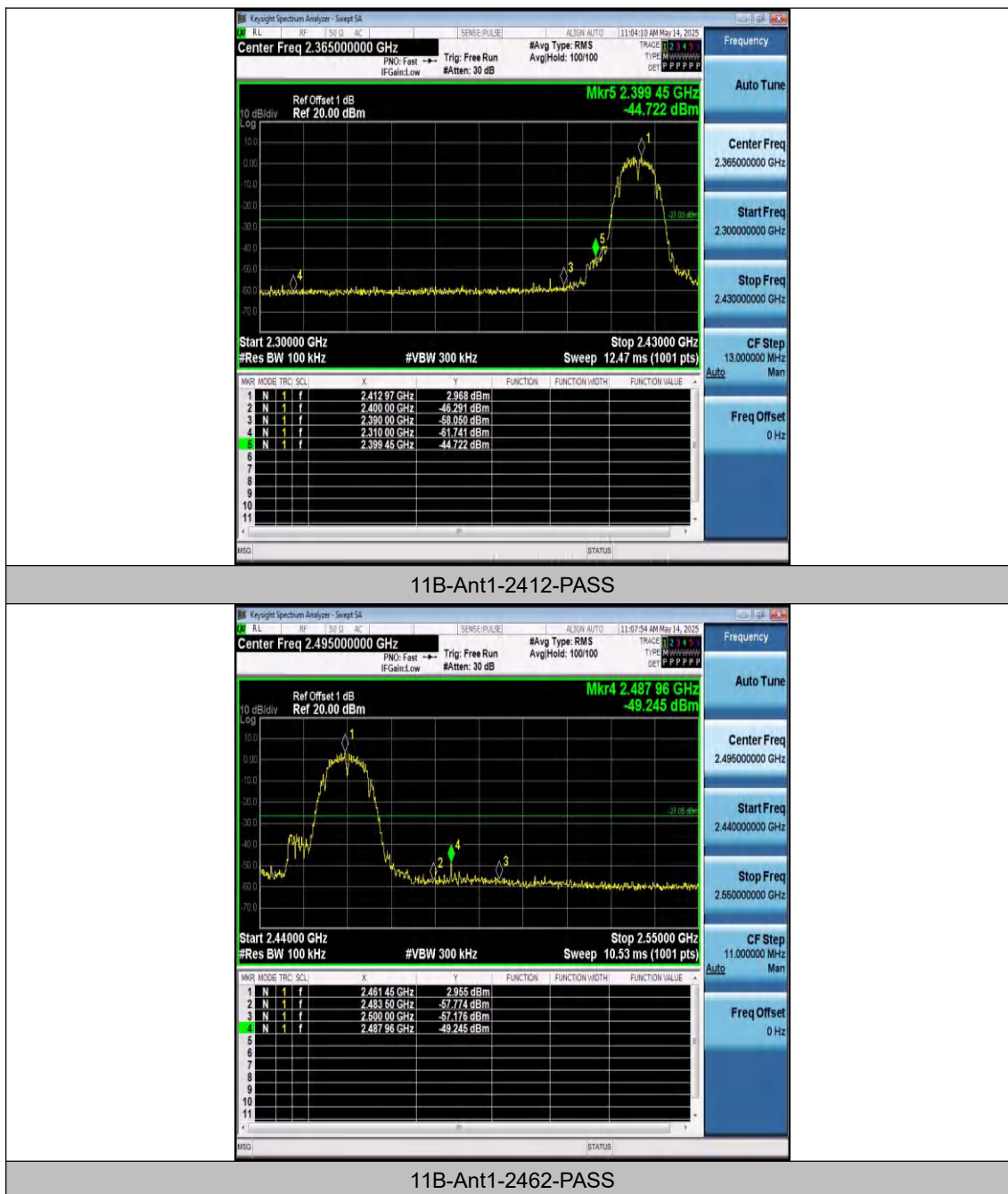
Appendix E: Conducted Band edge

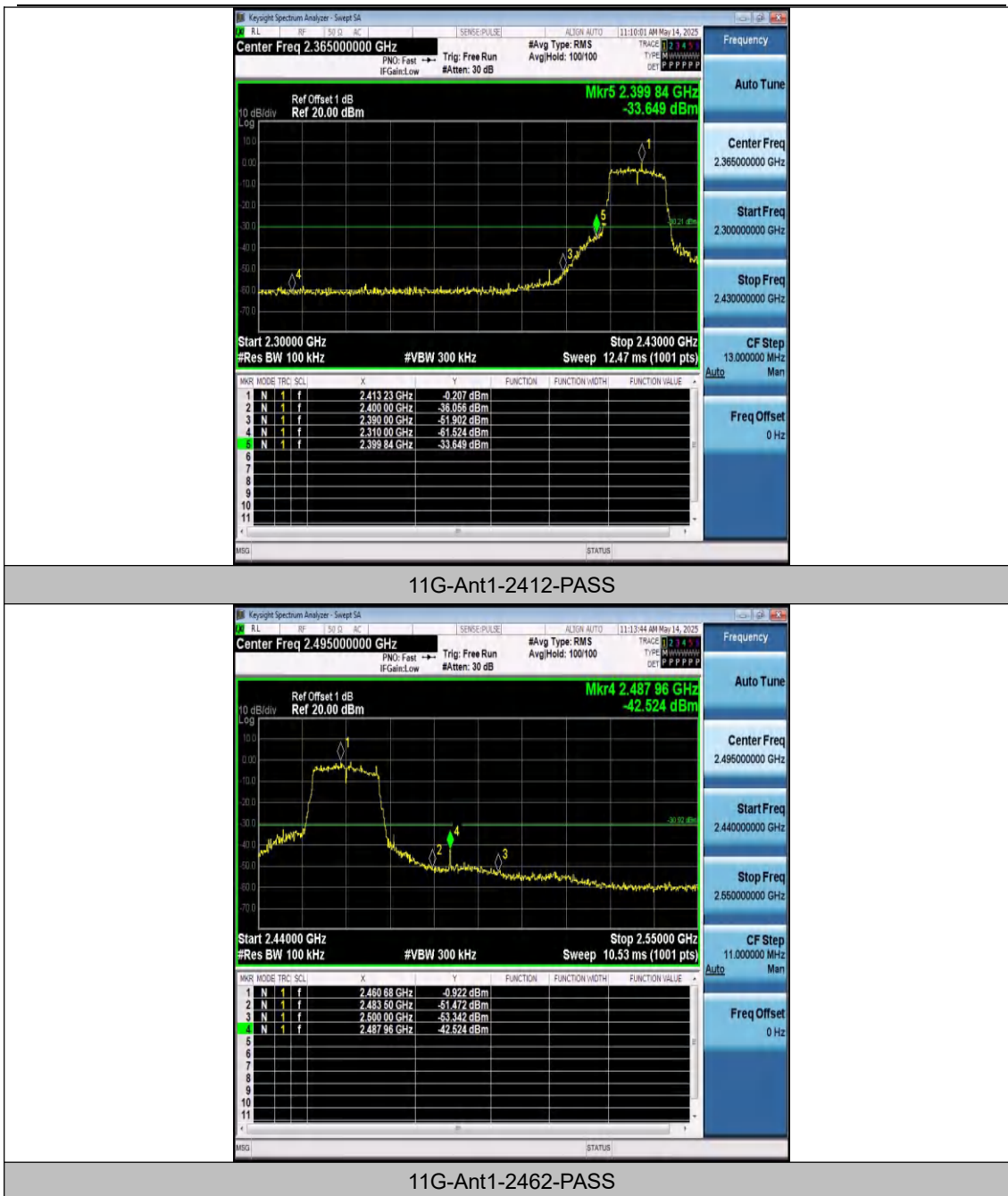
Test Result

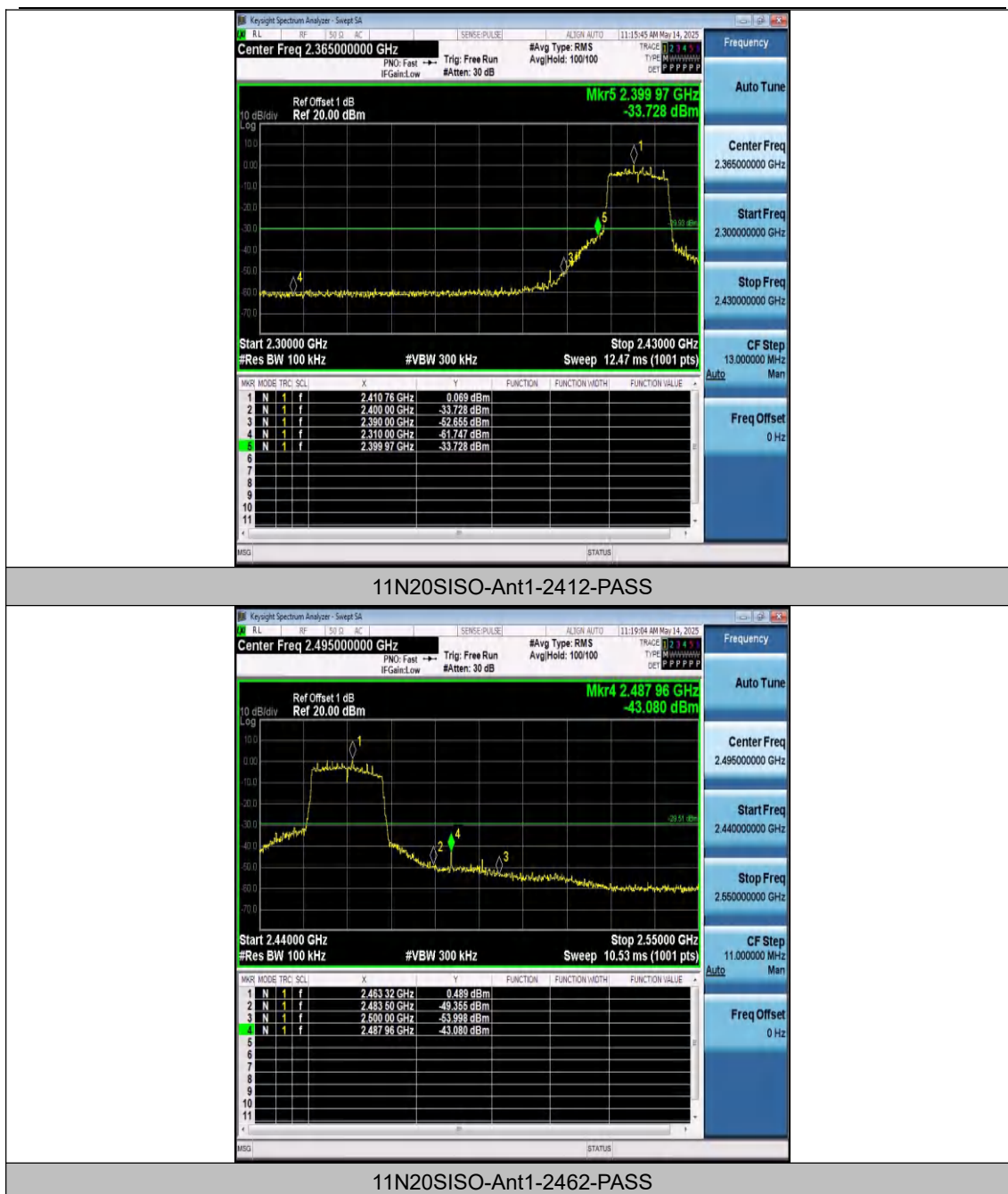
Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.97	-44.72	≤-27.03	PASS
11B	Ant1	High	2462	2.96	-49.25	≤-27.05	PASS
11G	Ant1	Low	2412	-0.21	-33.65	≤-30.21	PASS
11G	Ant1	High	2462	-0.92	-42.52	≤-30.92	PASS
11N20SISO	Ant1	Low	2412	0.07	-33.73	≤-29.93	PASS
11N20SISO	Ant1	High	2462	0.49	-43.08	≤-29.51	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







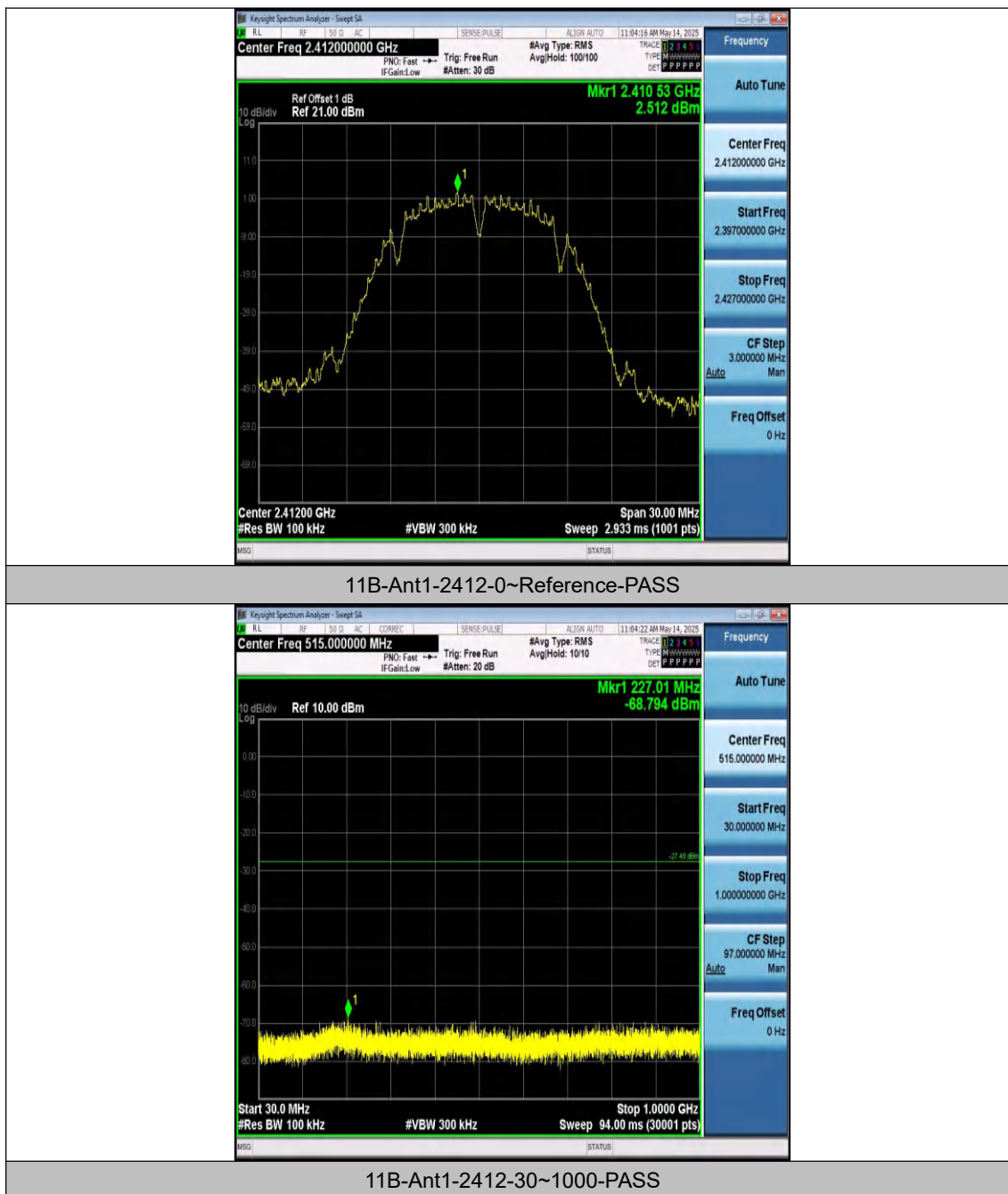
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.51	2.51	---	PASS
11B	Ant1	2412	30~1000	2.51	-68.79	≤-27.49	PASS
11B	Ant1	2412	1000~26500	2.51	-49.32	≤-27.49	PASS
11B	Ant1	2437	0~Reference	2.60	2.60	---	PASS
11B	Ant1	2437	30~1000	2.60	-68.89	≤-27.4	PASS
11B	Ant1	2437	1000~26500	2.60	-53.82	≤-27.4	PASS
11B	Ant1	2462	0~Reference	2.70	2.70	---	PASS
11B	Ant1	2462	30~1000	2.70	-68.71	≤-27.3	PASS
11B	Ant1	2462	1000~26500	2.70	-49.9	≤-27.3	PASS
11G	Ant1	2412	0~Reference	-0.05	-0.05	---	PASS
11G	Ant1	2412	30~1000	-0.05	-69.2	≤-30.05	PASS
11G	Ant1	2412	1000~26500	-0.05	-52.64	≤-30.05	PASS
11G	Ant1	2437	0~Reference	0.43	0.43	---	PASS
11G	Ant1	2437	30~1000	0.43	-68.49	≤-29.57	PASS
11G	Ant1	2437	1000~26500	0.43	-45.59	≤-29.57	PASS
11G	Ant1	2462	0~Reference	0.58	0.58	---	PASS
11G	Ant1	2462	30~1000	0.58	-68.85	≤-29.42	PASS
11G	Ant1	2462	1000~26500	0.58	-40.97	≤-29.42	PASS
11N20SISO	Ant1	2412	0~Reference	-0.17	-0.17	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.17	-69.01	≤-30.17	PASS
11N20SISO	Ant1	2412	1000~26500	-0.17	-42.12	≤-30.17	PASS
11N20SISO	Ant1	2437	0~Reference	0.98	0.98	---	PASS
11N20SISO	Ant1	2437	30~1000	0.98	-69.46	≤-29.02	PASS
11N20SISO	Ant1	2437	1000~26500	0.98	-53.65	≤-29.02	PASS
11N20SISO	Ant1	2462	0~Reference	0.70	0.70	---	PASS
11N20SISO	Ant1	2462	30~1000	0.70	-69.12	≤-29.3	PASS
11N20SISO	Ant1	2462	1000~26500	0.70	-51.71	≤-29.3	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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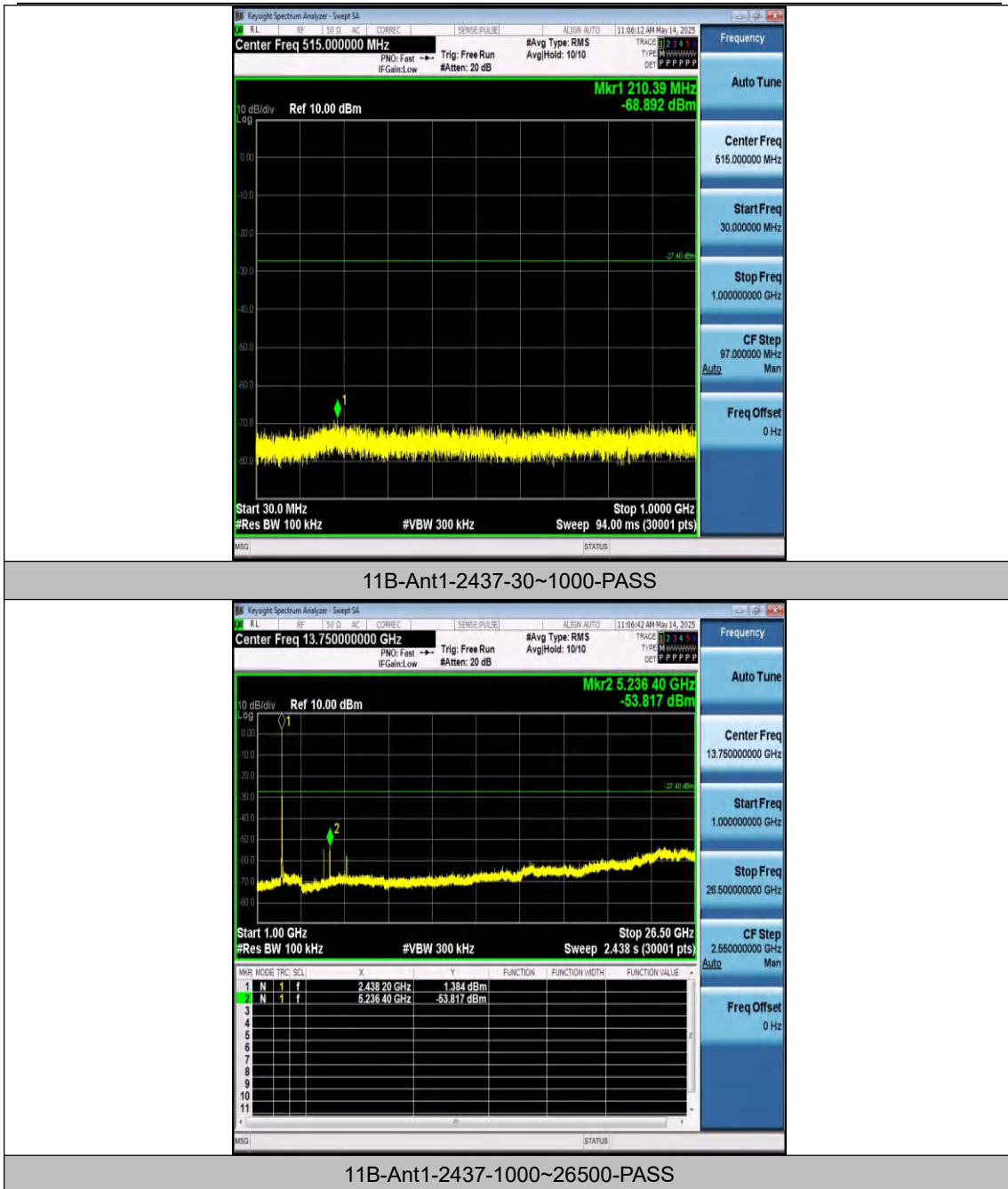
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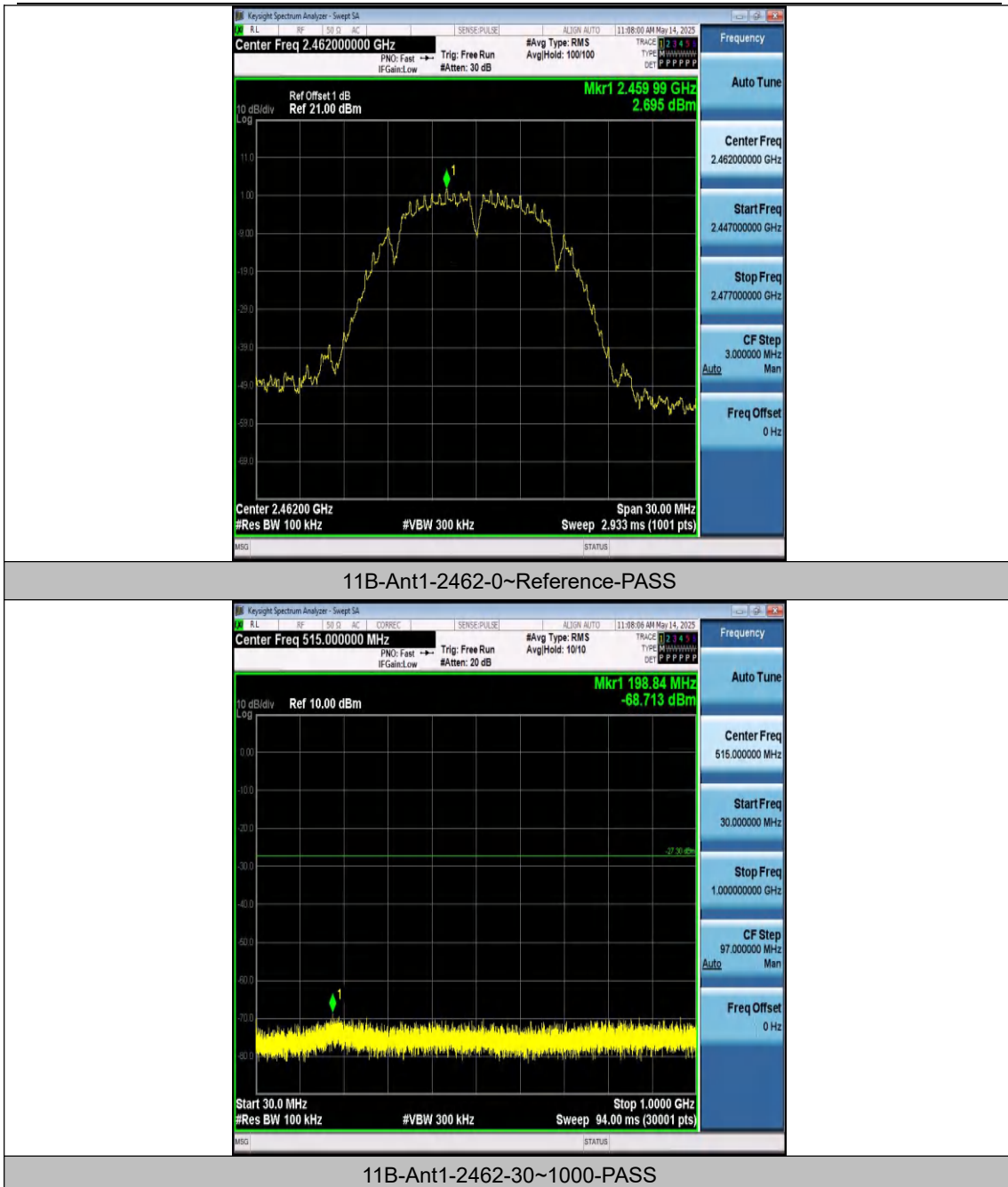
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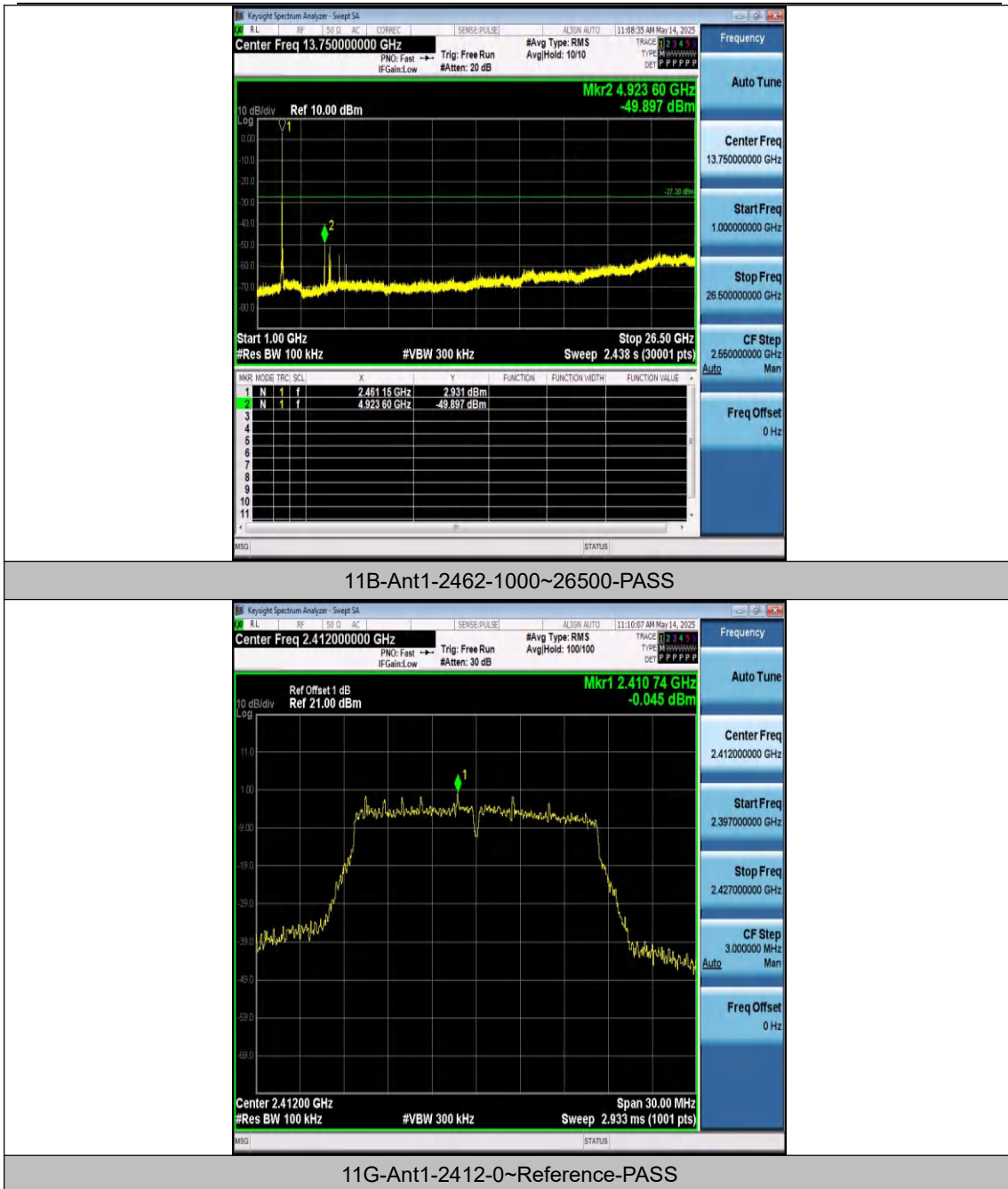


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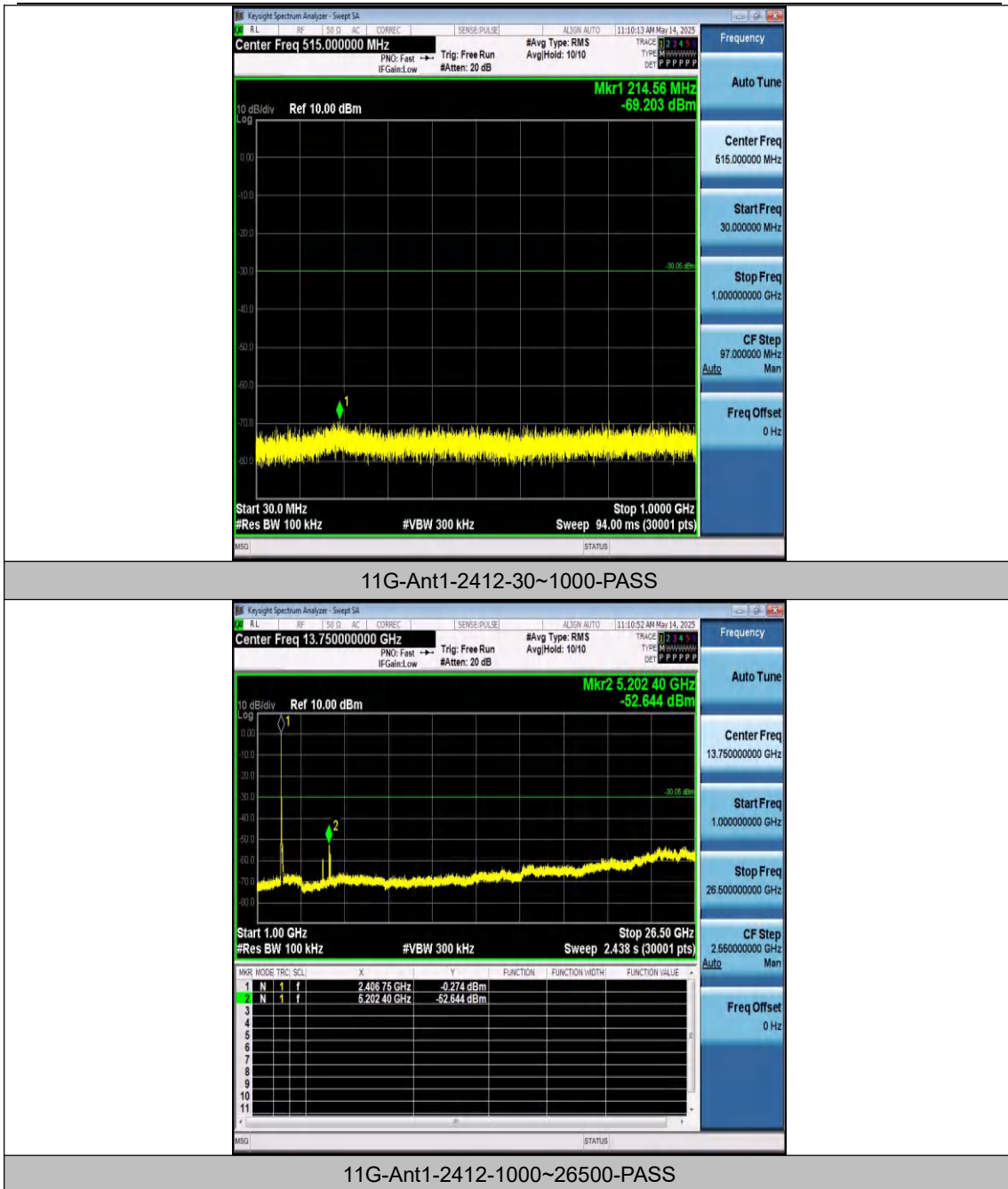


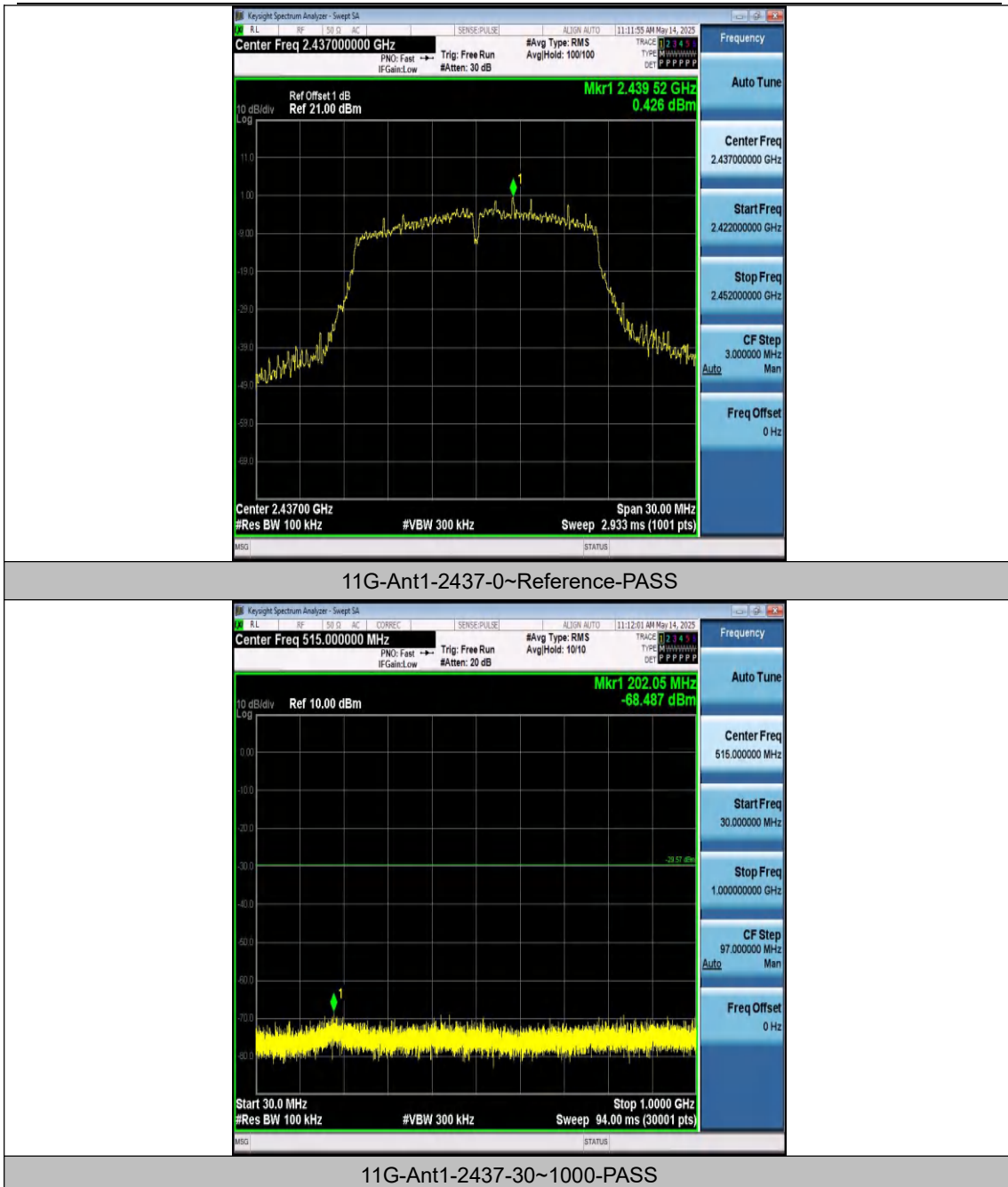


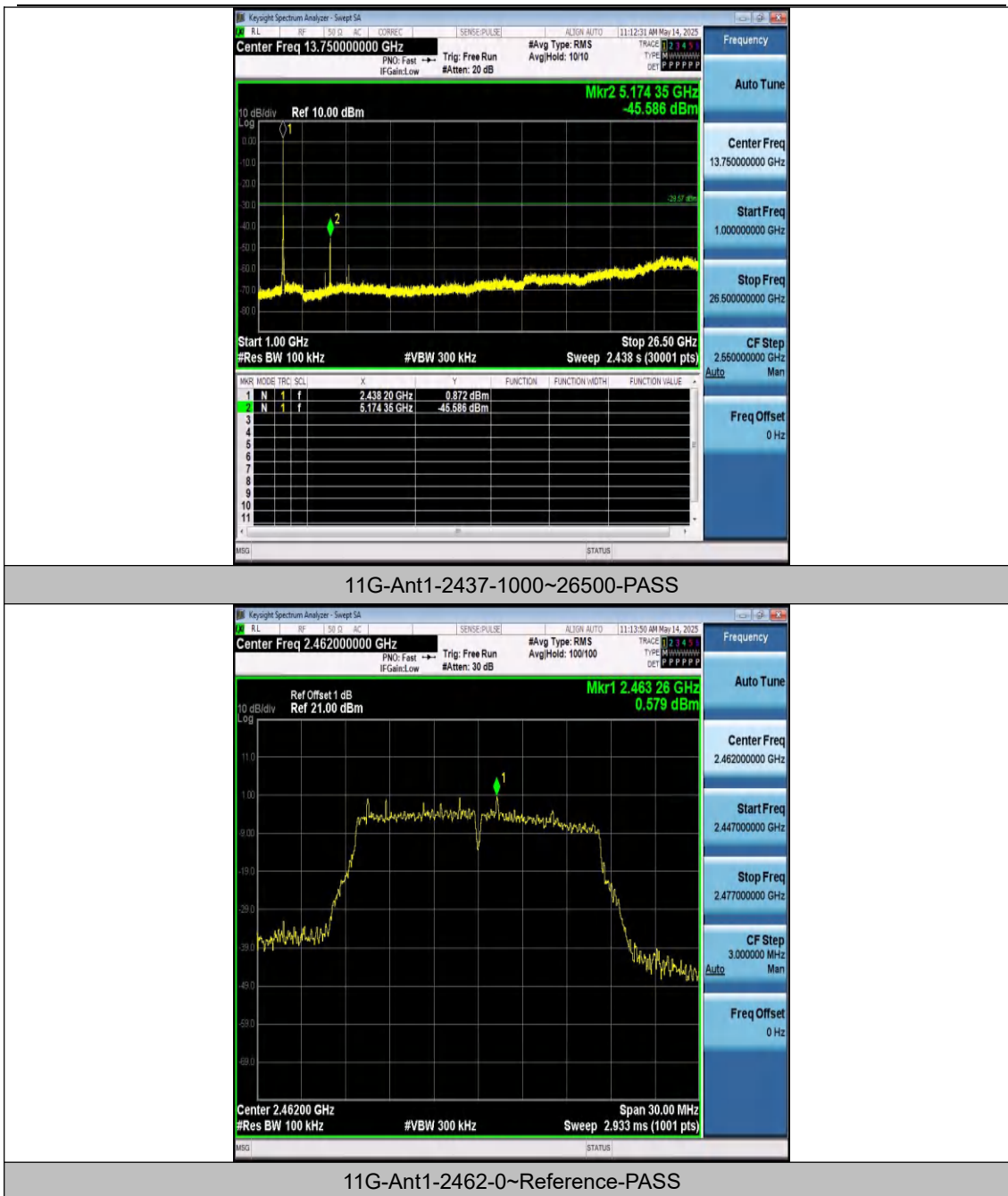
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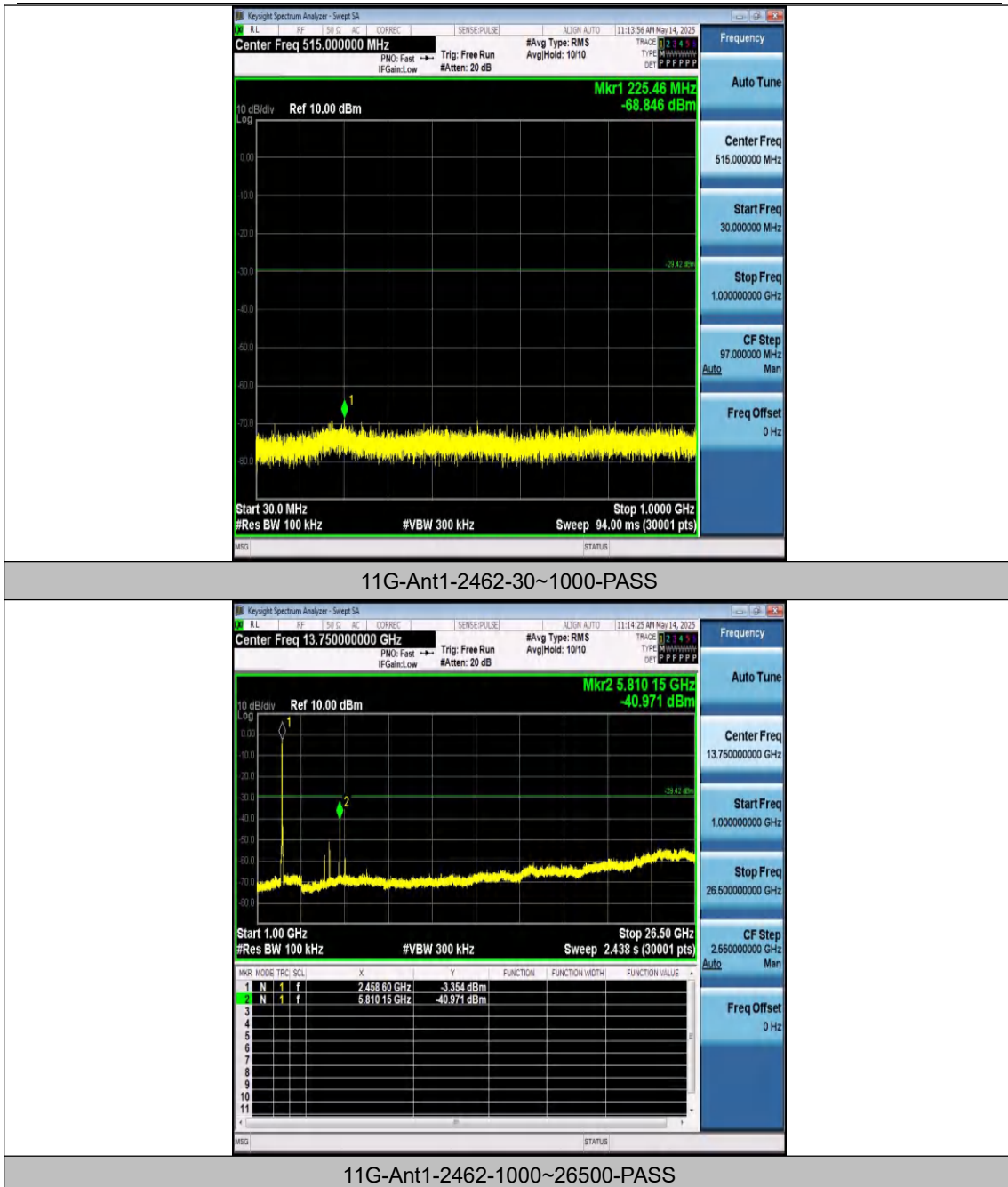
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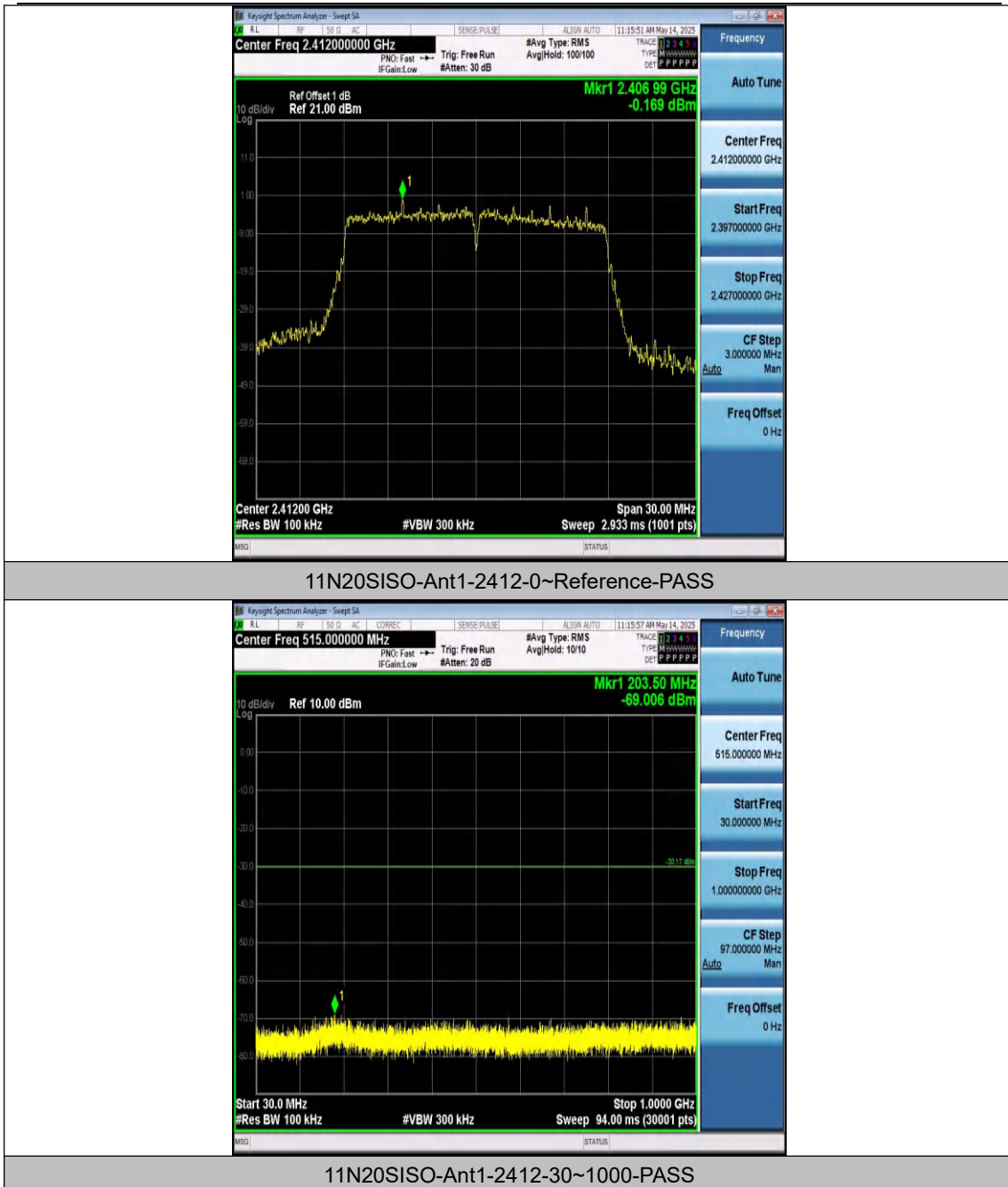
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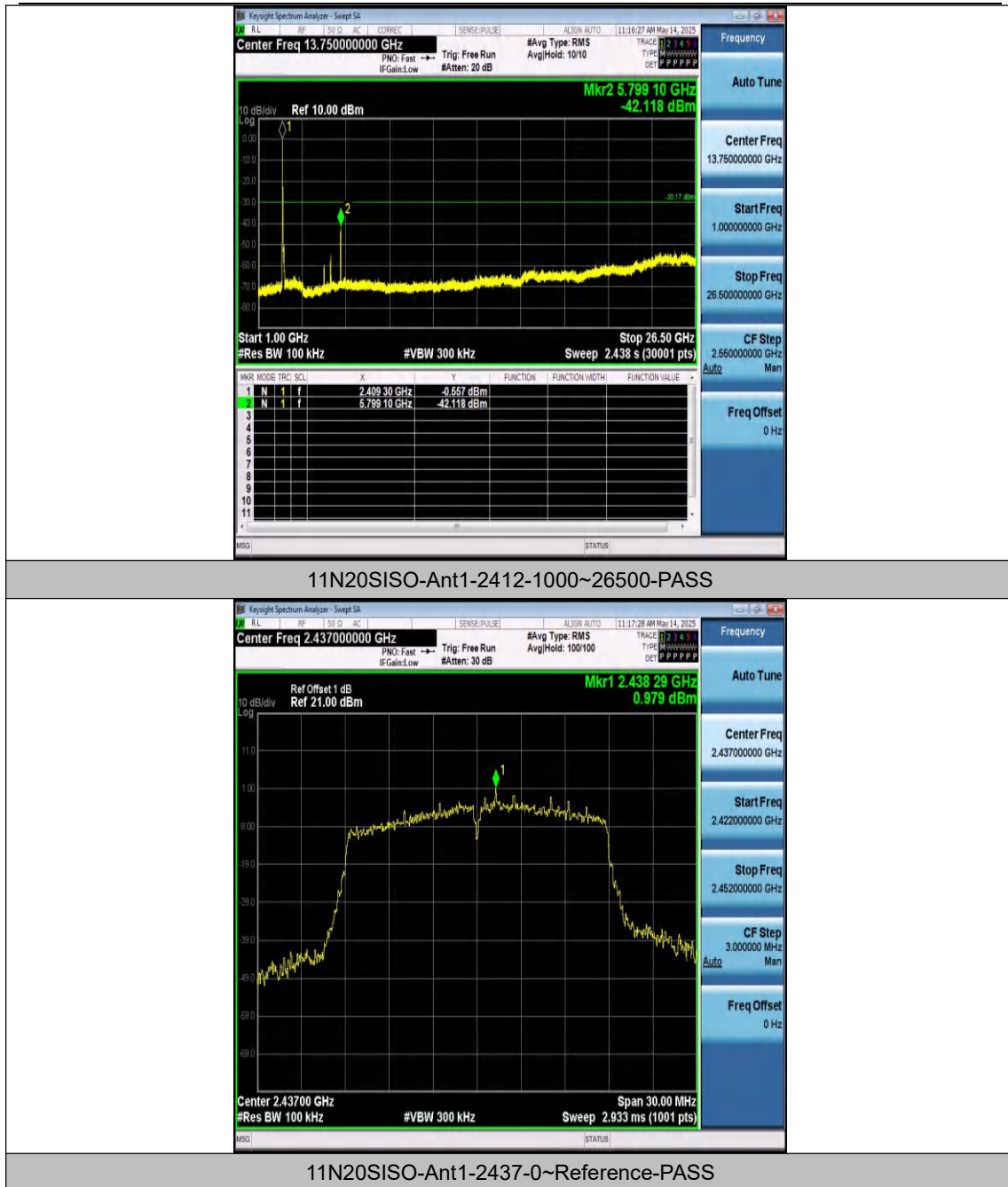








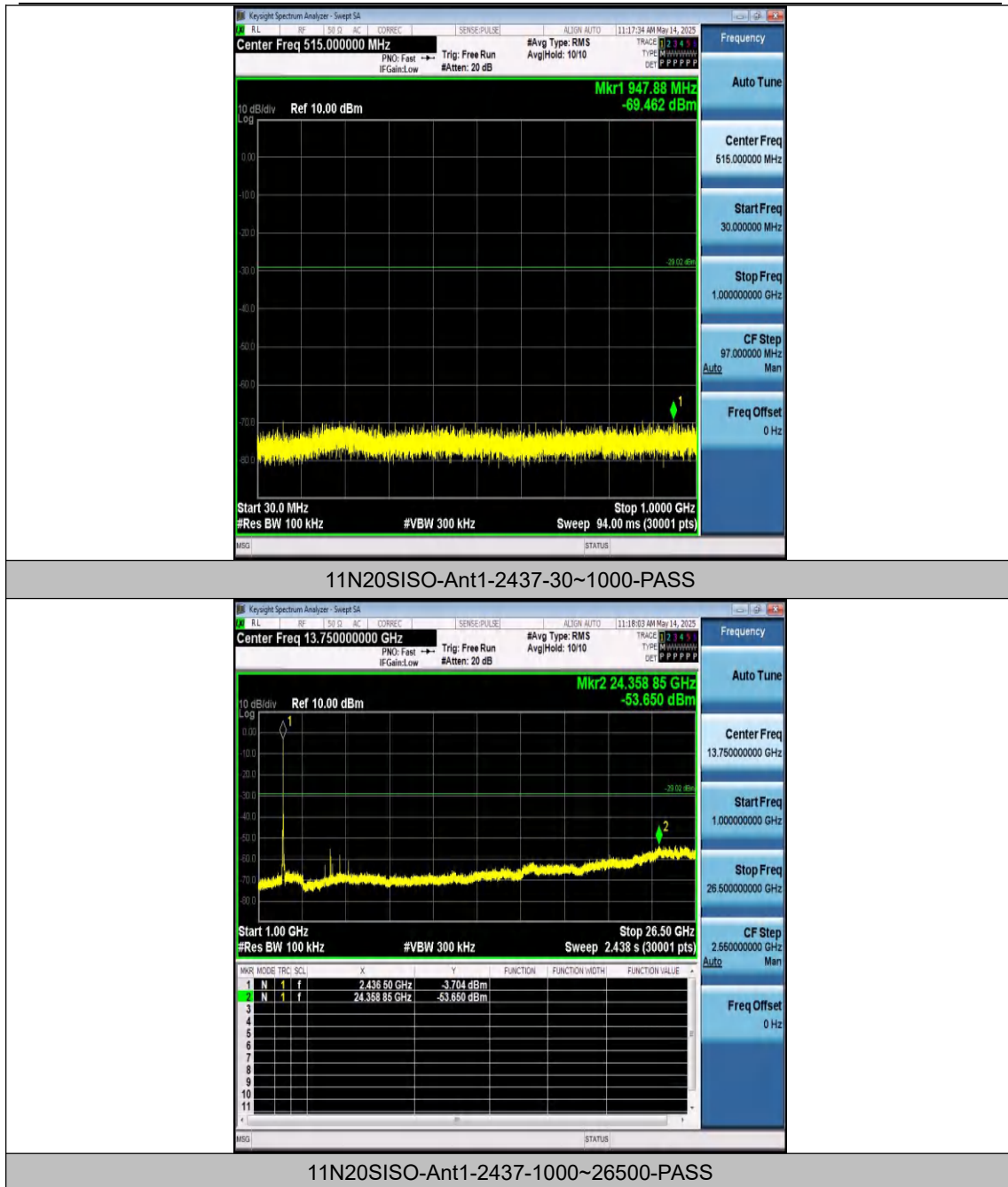


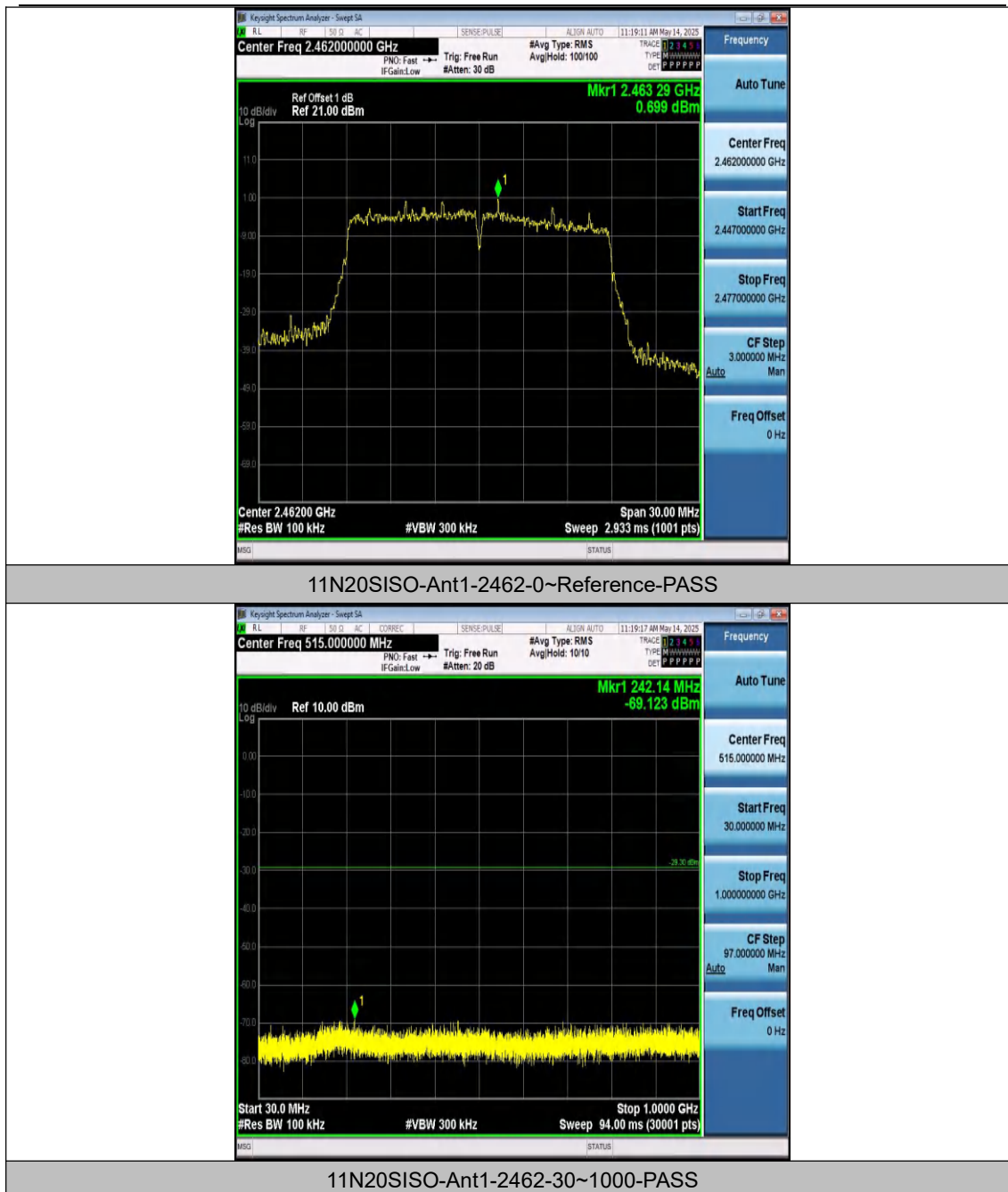


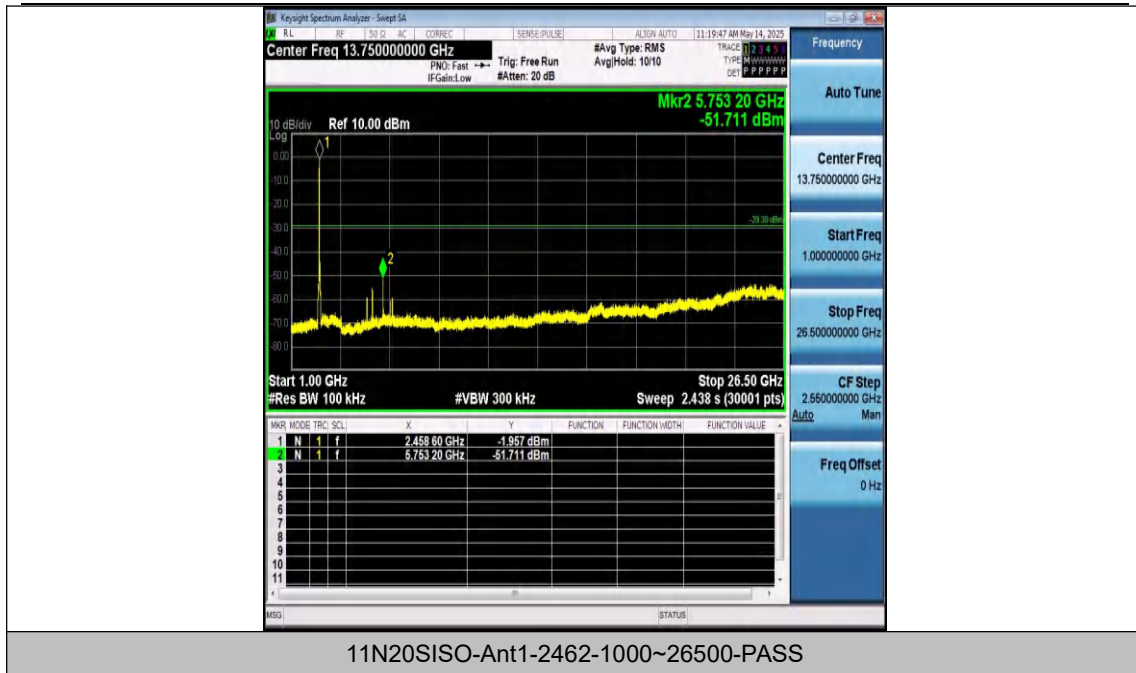
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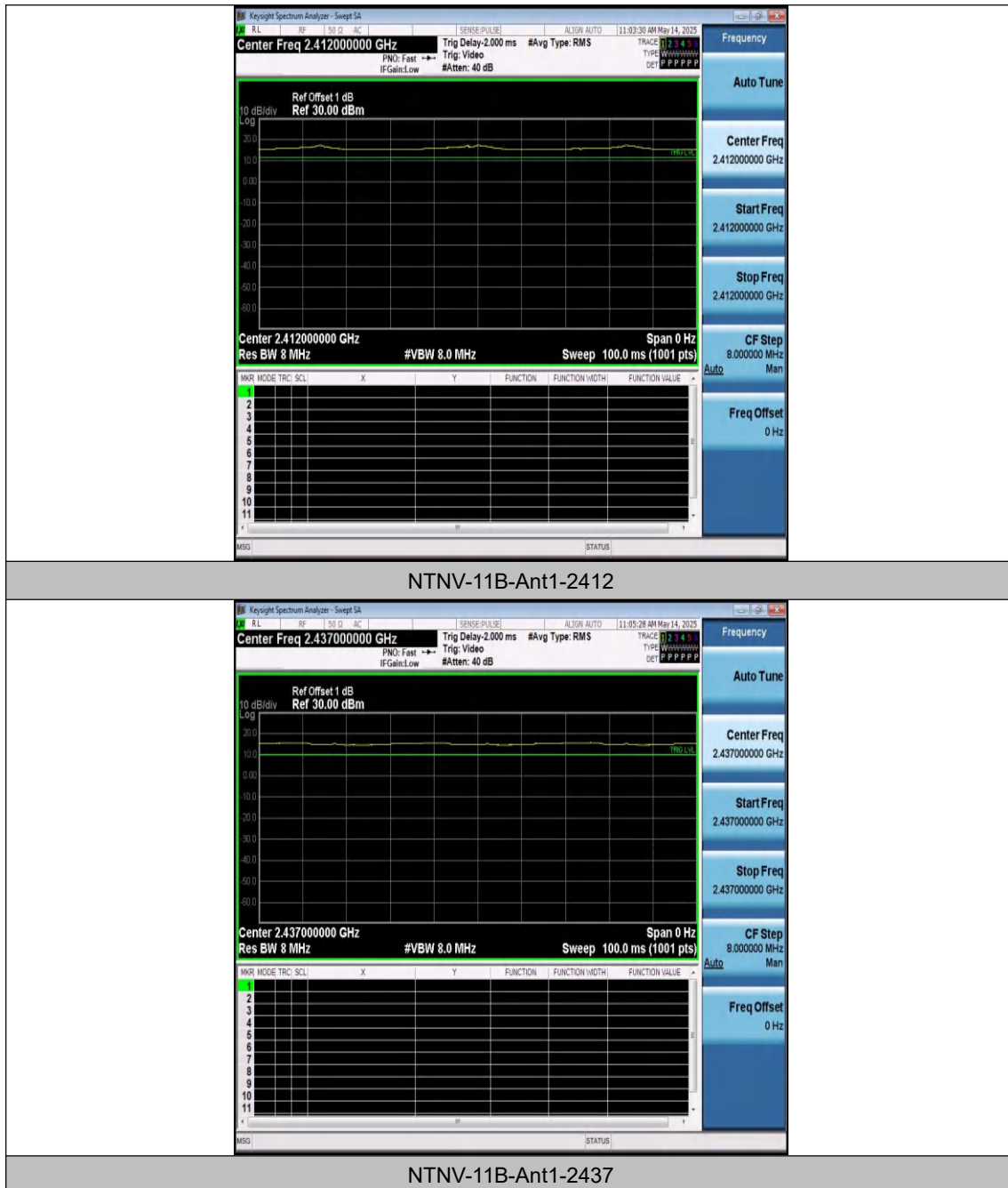
Appendix G: Duty Cycle

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



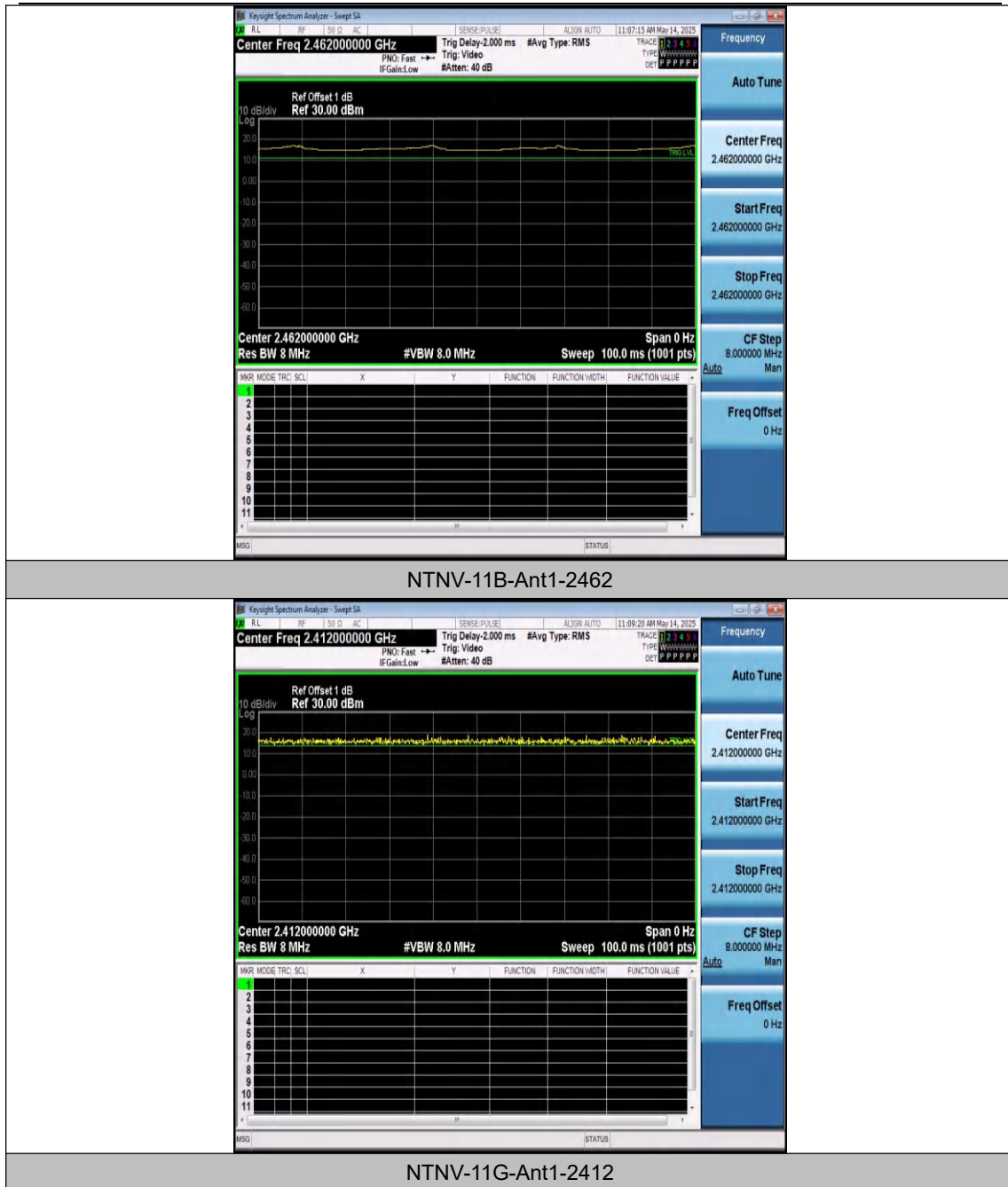
Test Graphs



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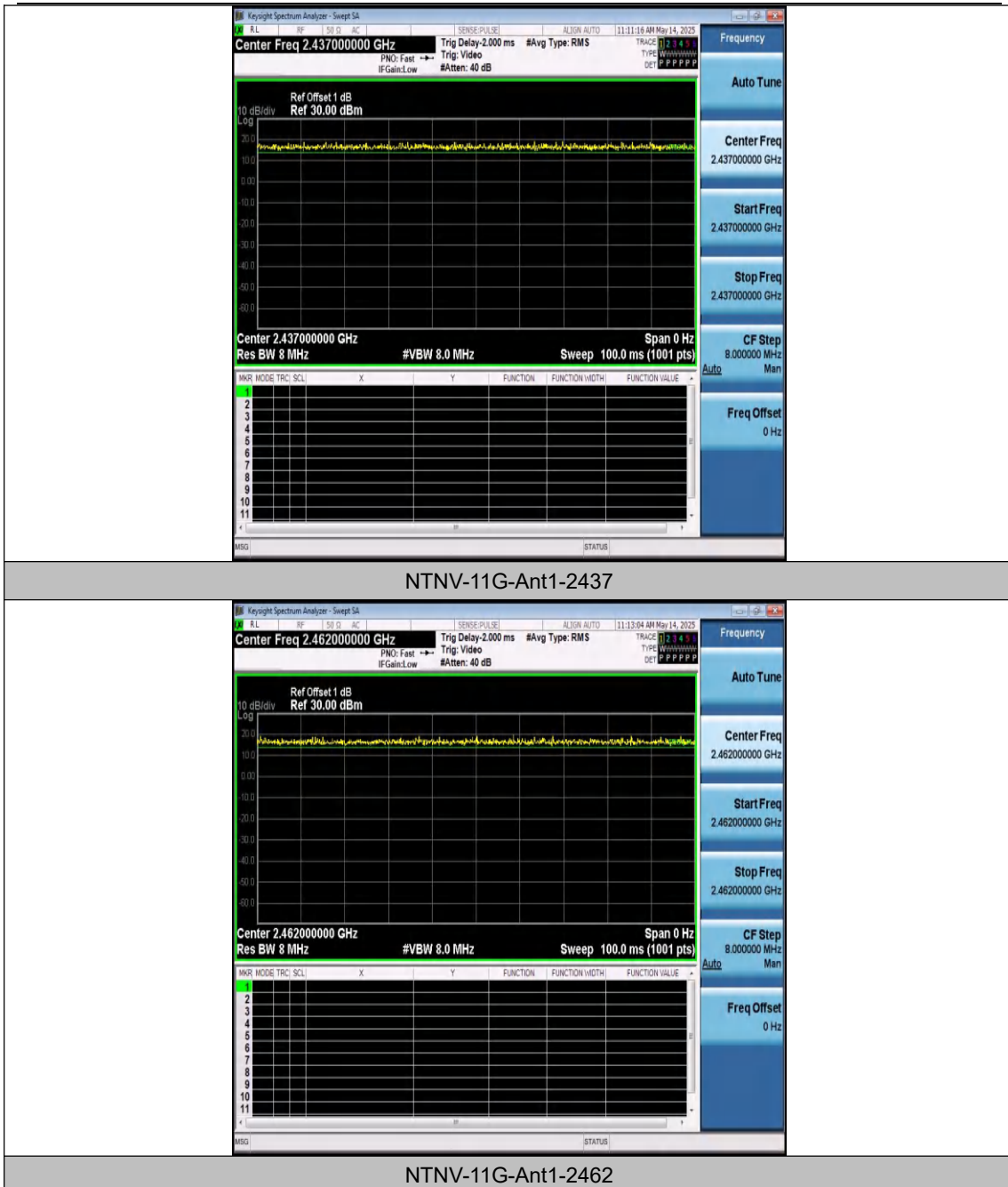
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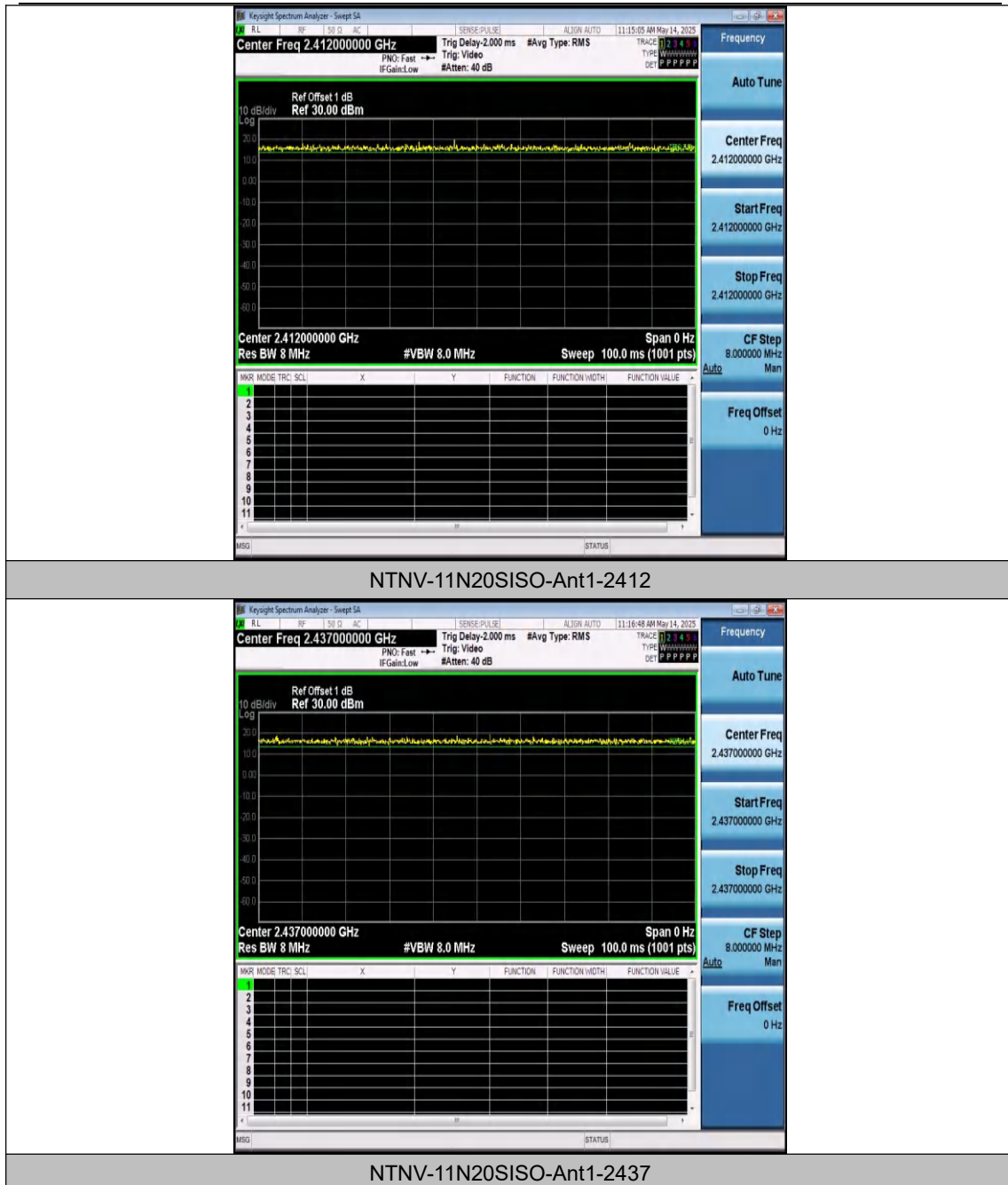


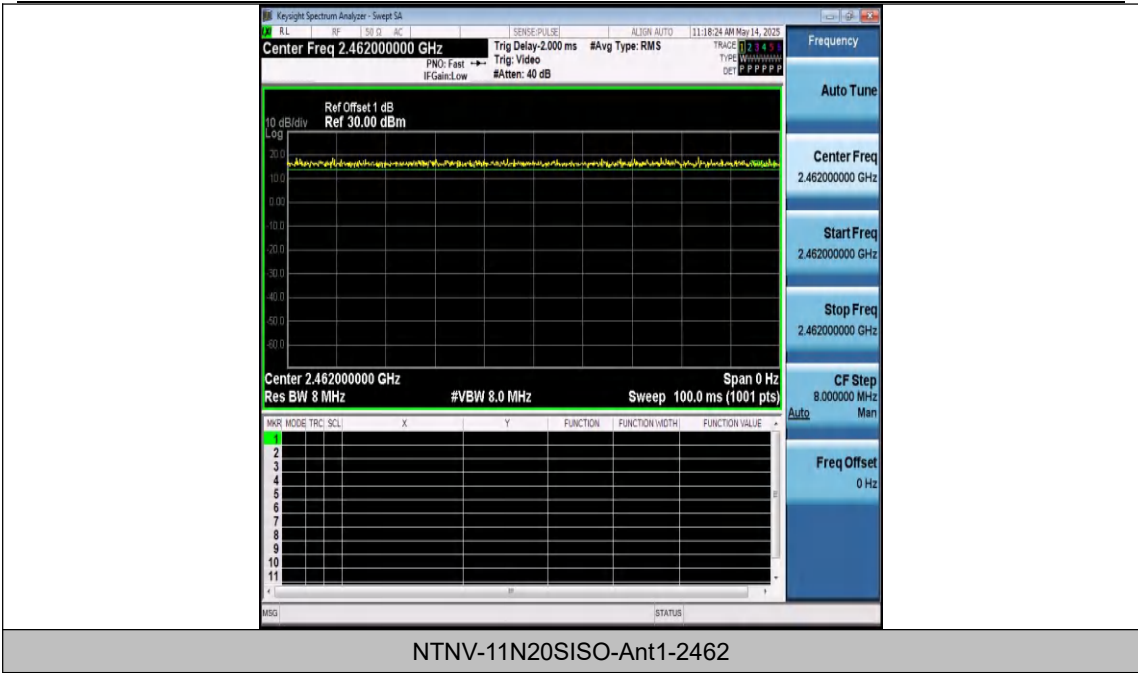
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