

Appendix Test Data

Report No.:	1812C50128312502	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	9.280	2407.400	2416.680	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	16.360	2403.880	2420.240	0.5	PASS
11G	Ant1	2437	16.400	2428.880	2445.280	0.5	PASS
11G	Ant1	2462	16.400	2453.880	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	0.5	PASS
11N20SISO	Ant1	2462	17.680	2453.200	2470.880	0.5	PASS

Test Graphs



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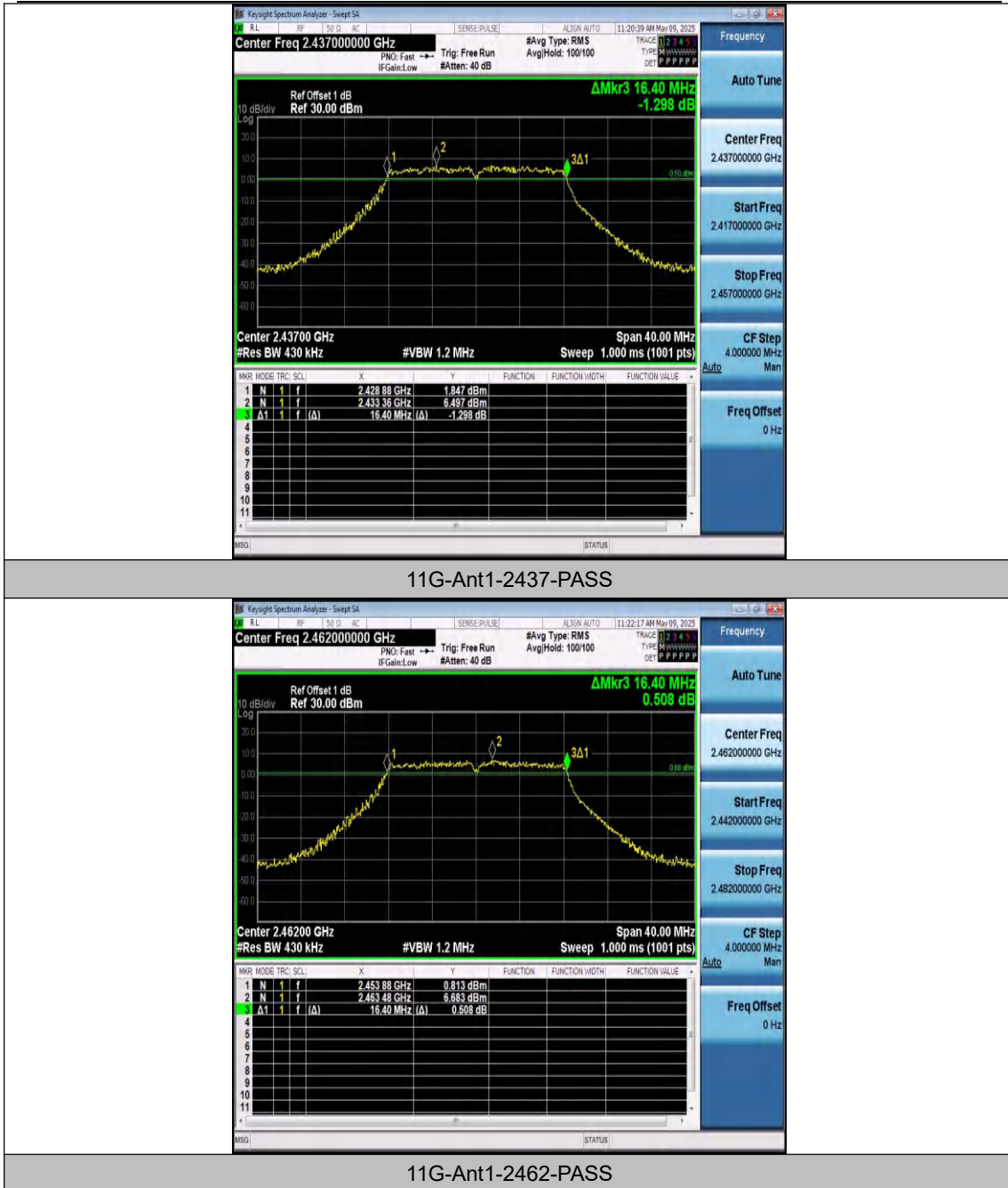
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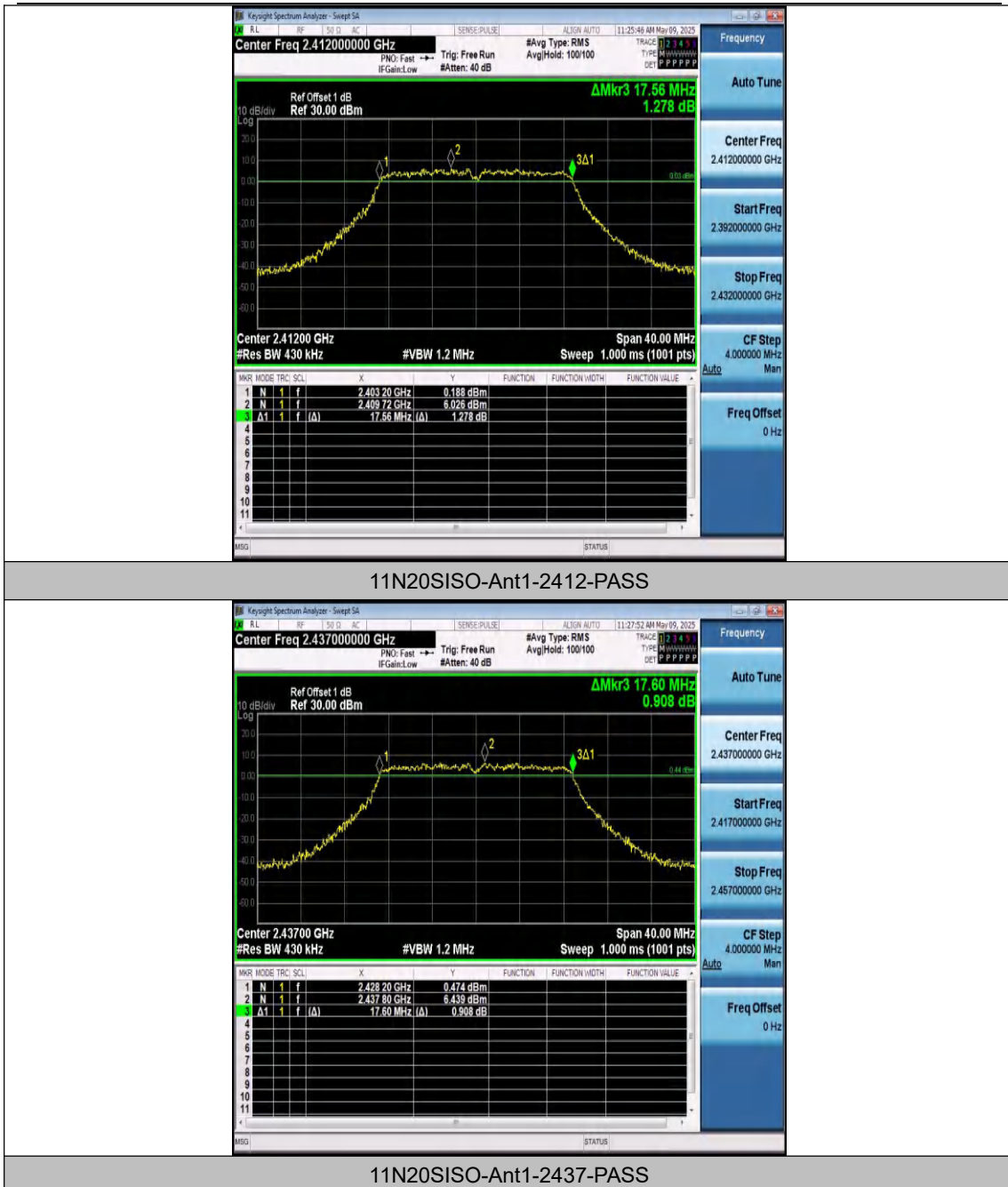
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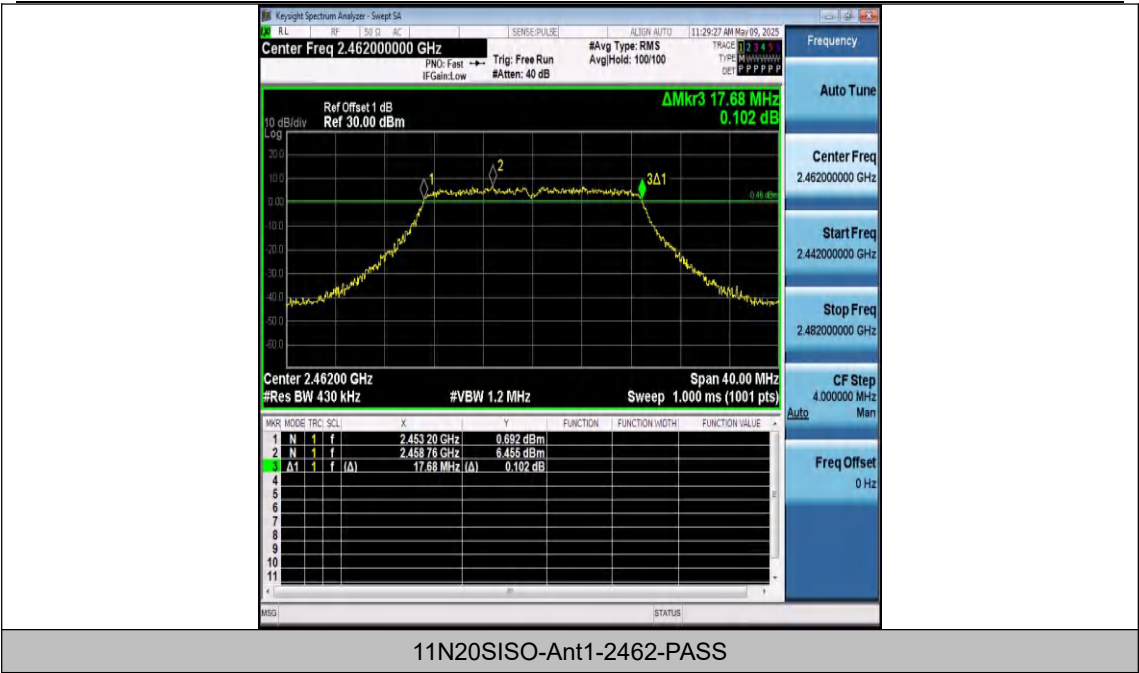
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11N20SISO-Ant1-2462-PASS

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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	14.093	2404.9757	2419.0687	---	---
11B	Ant1	2437	14.044	2430.0194	2444.0634	---	---
11B	Ant1	2462	14.030	2455.0293	2469.0593	---	---
11G	Ant1	2412	17.081	2403.4215	2420.5025	---	---
11G	Ant1	2437	16.987	2428.4870	2445.4740	---	---
11G	Ant1	2462	17.077	2453.4276	2470.5046	---	---
11N20SISO	Ant1	2412	18.122	2402.9714	2421.0934	---	---
11N20SISO	Ant1	2437	18.083	2427.9982	2446.0812	---	---
11N20SISO	Ant1	2462	18.095	2453.0112	2471.1062	---	---

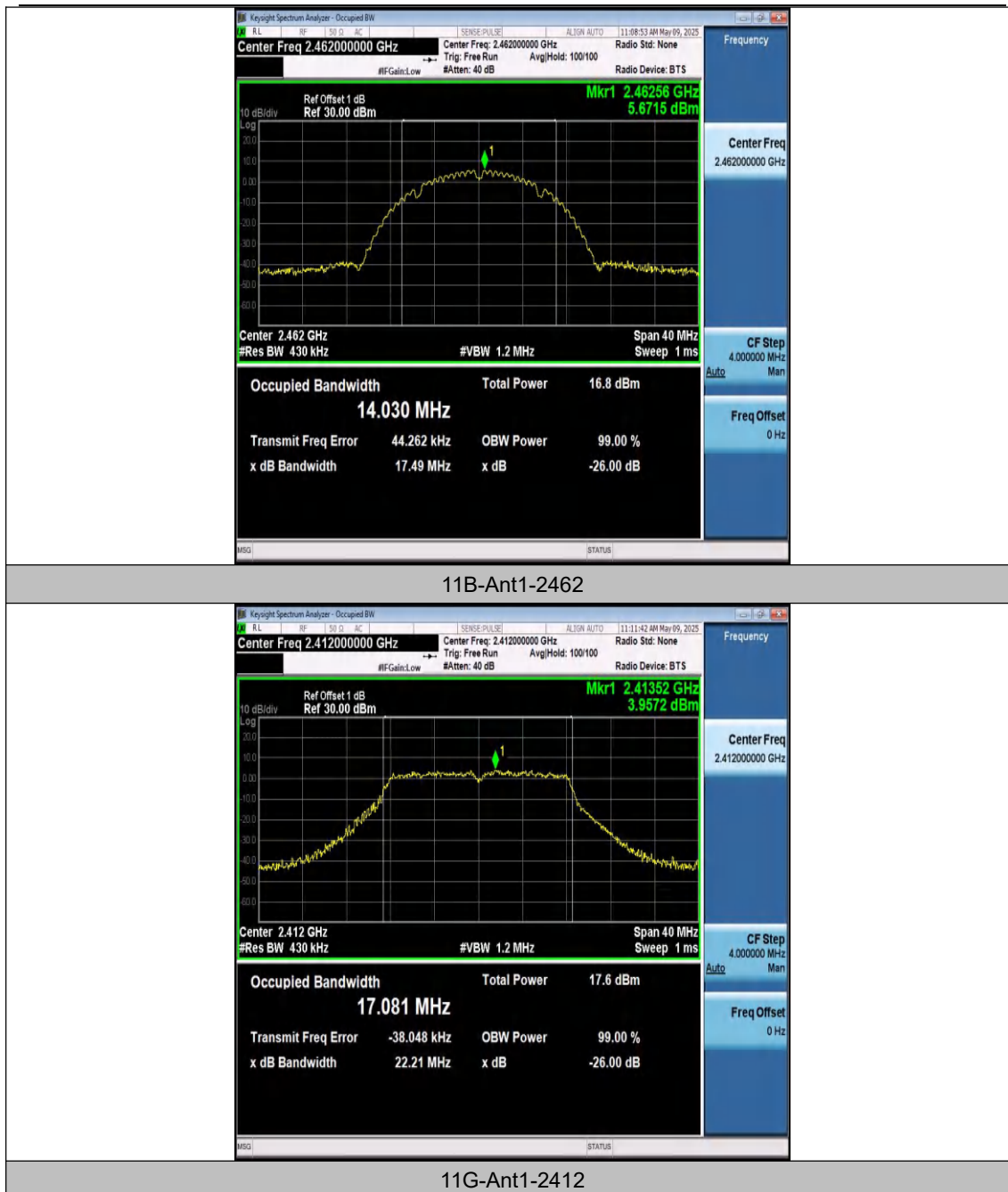
Test Graphs



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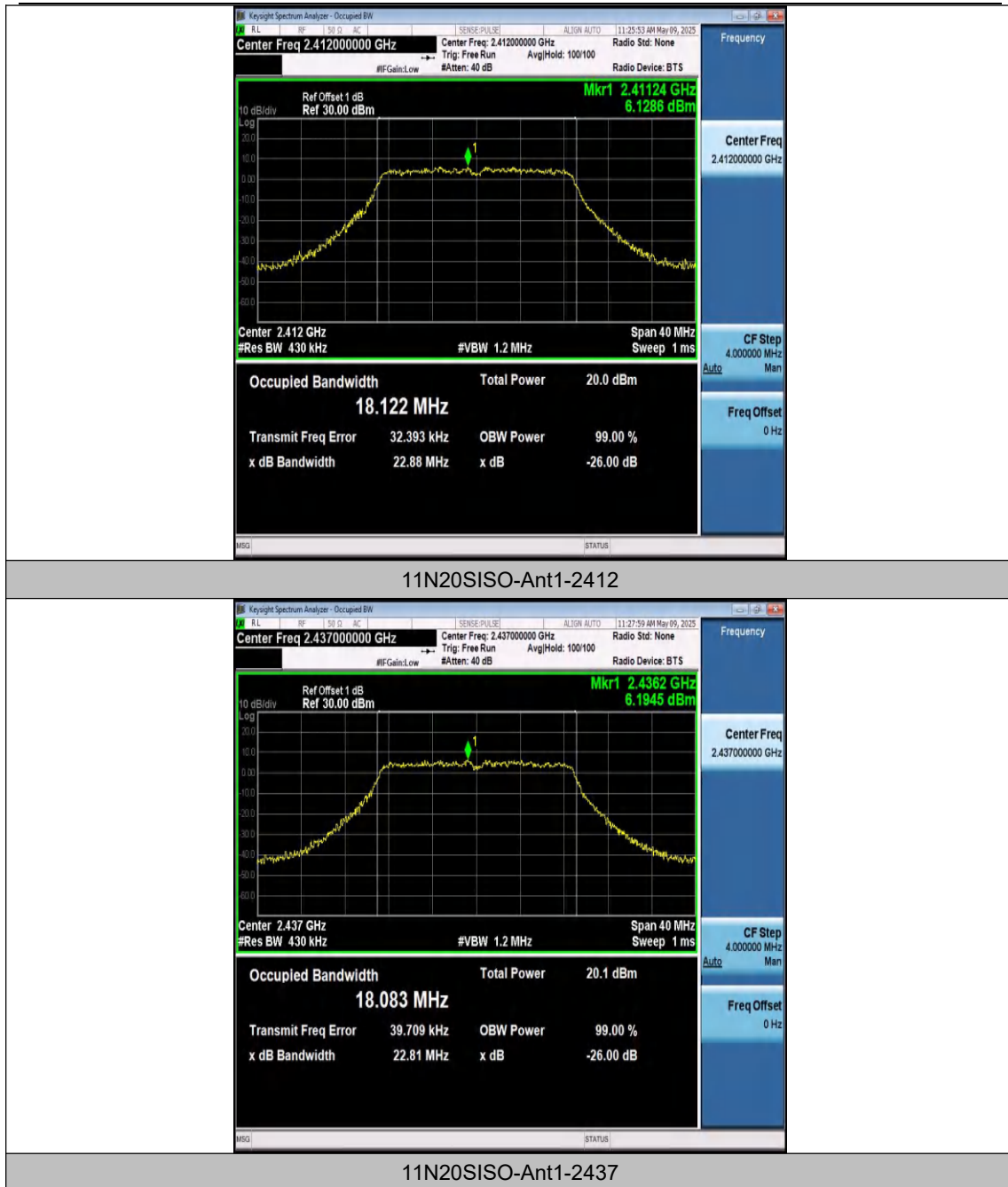
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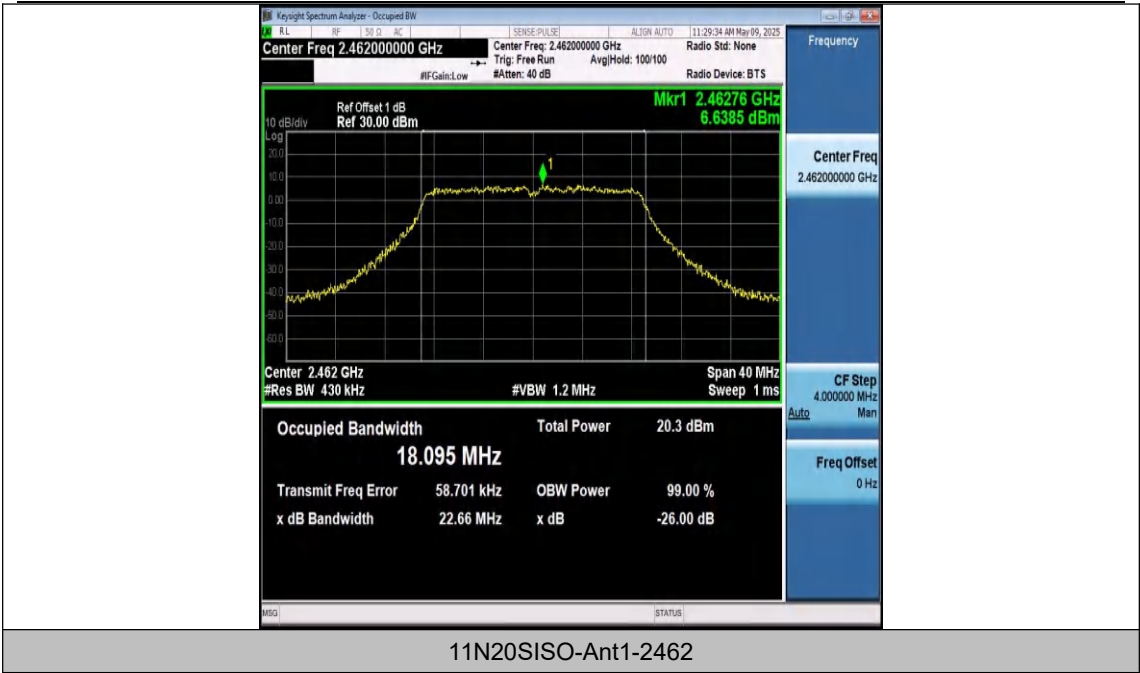
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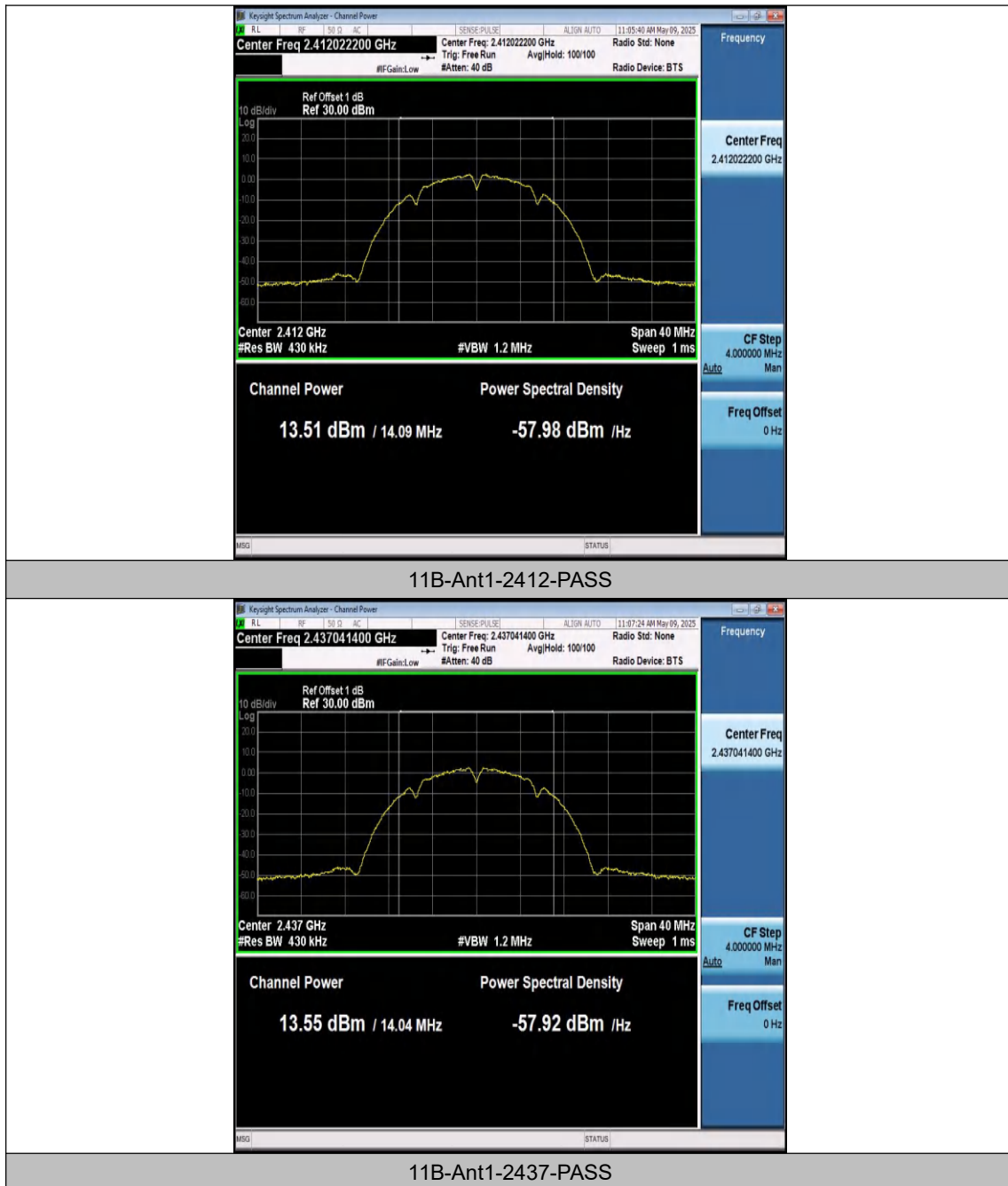
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.51	100.00	0.00	13.51	≤30.00	PASS
11B	Ant1	2437	13.55	100.00	0.00	13.55	≤30.00	PASS
11B	Ant1	2462	13.79	100.00	0.00	13.79	≤30.00	PASS
11G	Ant1	2412	14.12	100.00	0.00	14.12	≤30.00	PASS
11G	Ant1	2437	14.19	100.00	0.00	14.19	≤30.00	PASS
11G	Ant1	2462	14.42	100.00	0.00	14.42	≤30.00	PASS
11N20SISO	Ant1	2412	13.82	100.00	0.00	13.82	≤30.00	PASS
11N20SISO	Ant1	2437	14.02	100.00	0.00	14.02	≤30.00	PASS
11N20SISO	Ant1	2462	14.30	100.00	0.00	14.30	≤30.00	PASS

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

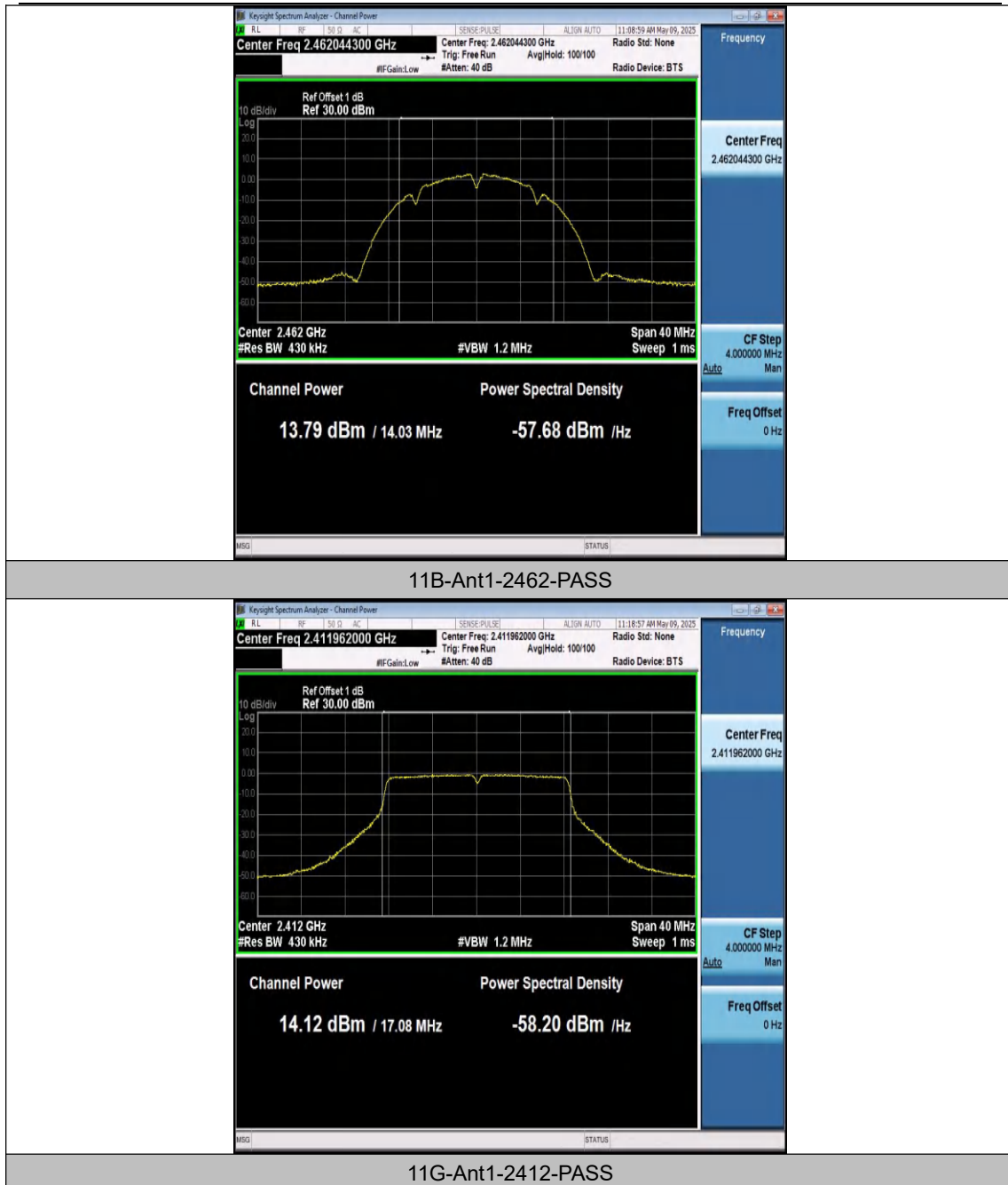
Test Graphs Average



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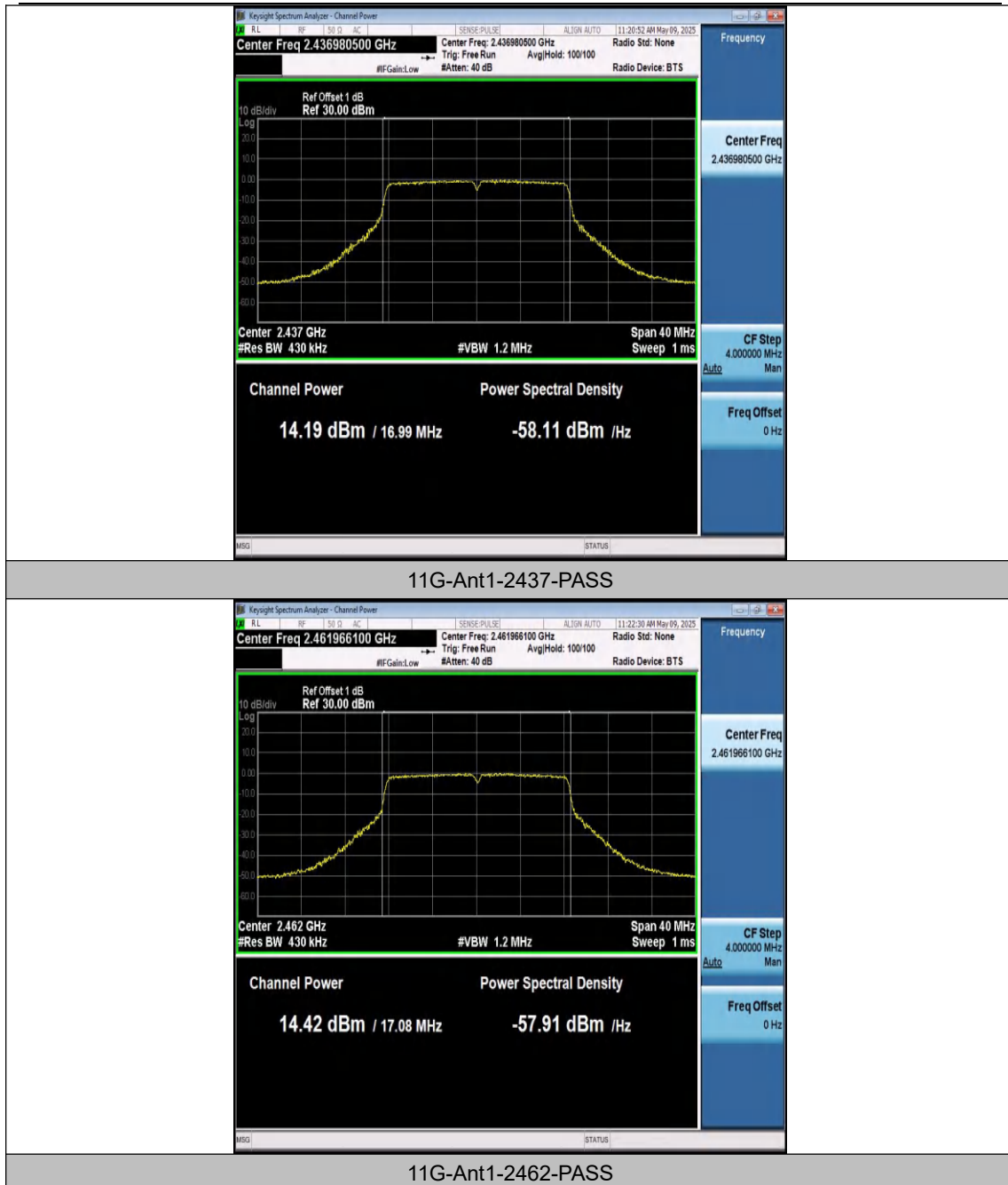
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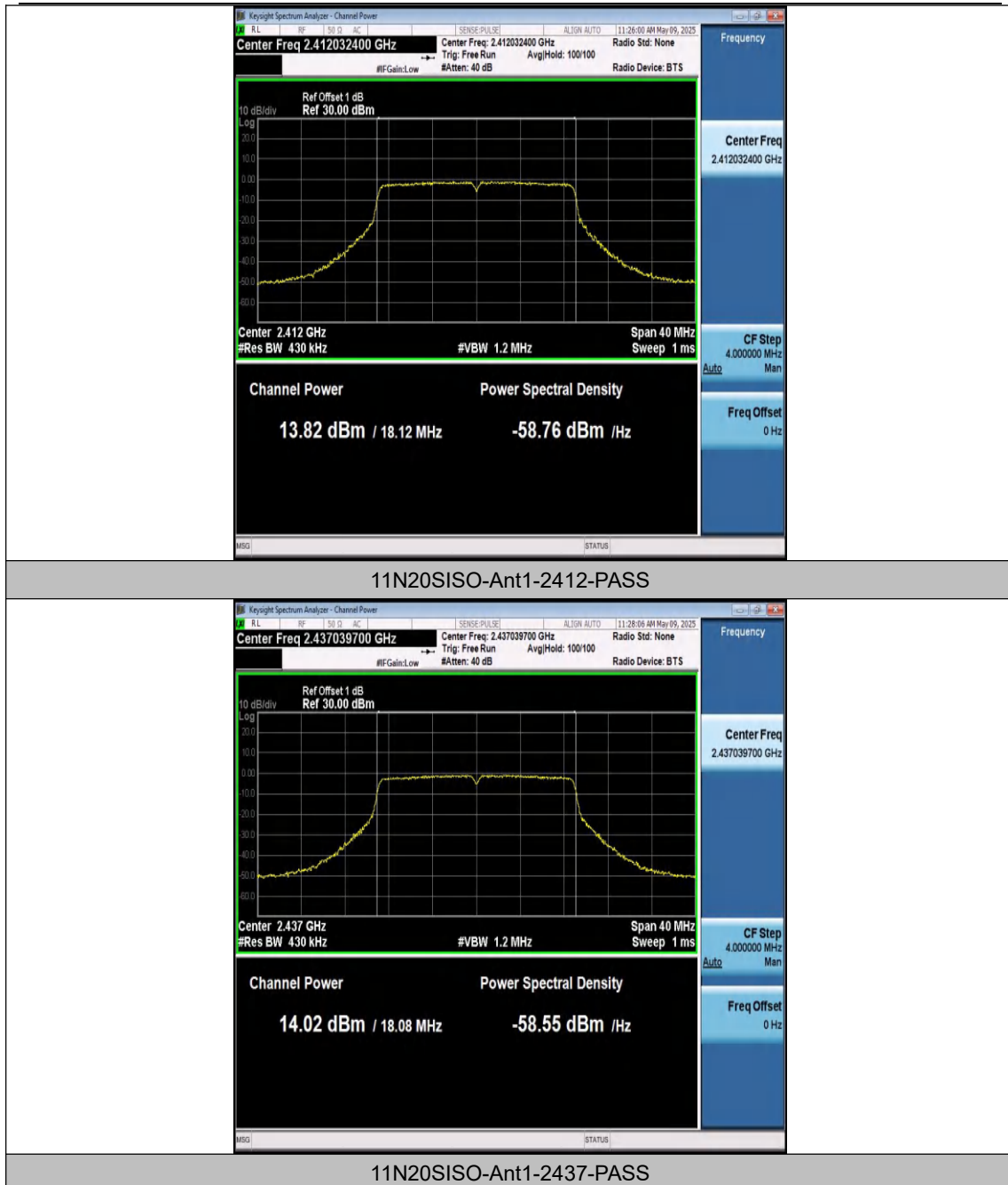
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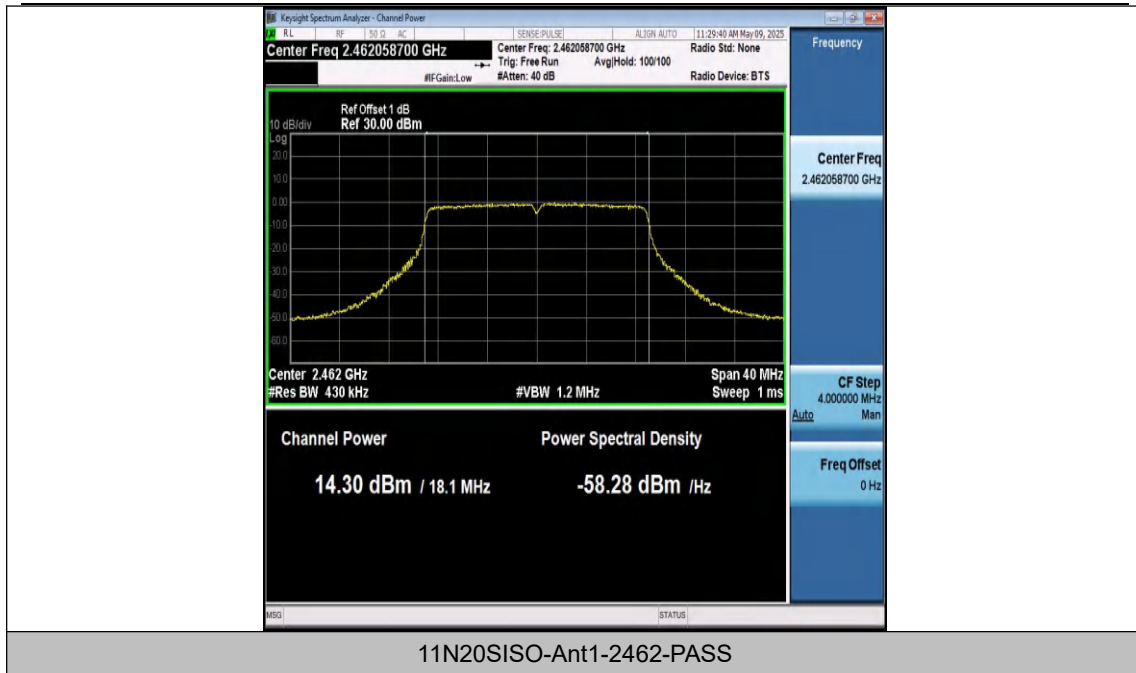
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Appendix D: Maximum power spectral density

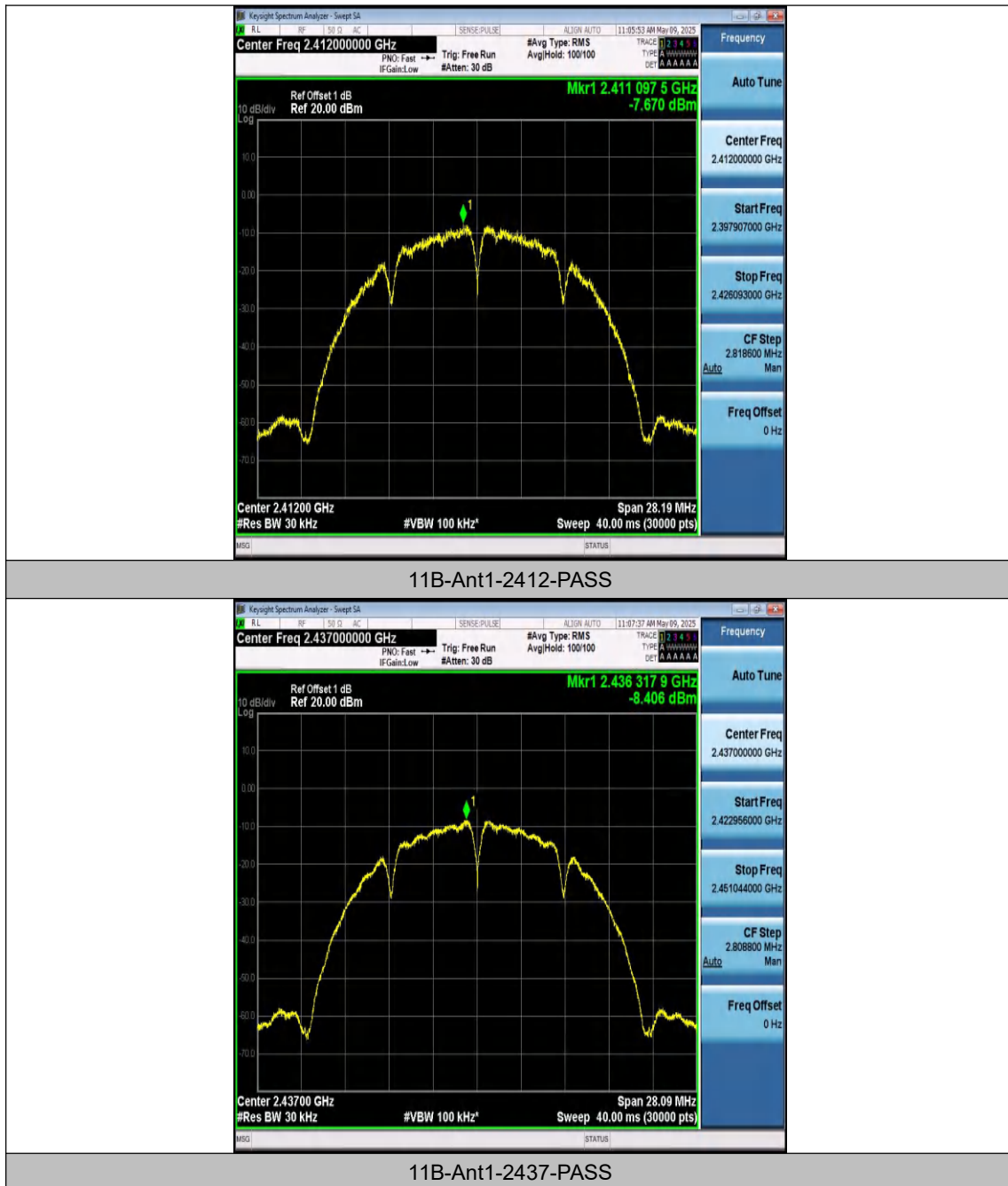
Test Result

Test Mode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.67	-17.67	≤8.00	PASS
11B	Ant1	2437	-8.41	-18.41	≤8.00	PASS
11B	Ant1	2462	-7.89	-17.89	≤8.00	PASS
11G	Ant1	2412	-10.24	-20.24	≤8.00	PASS
11G	Ant1	2437	-10.15	-20.15	≤8.00	PASS
11G	Ant1	2462	-10.03	-20.03	≤8.00	PASS
11N20SIS O	Ant1	2412	-10.53	-20.53	≤8.00	PASS
11N20SIS O	Ant1	2437	-9.79	-19.79	≤8.00	PASS
11N20SIS O	Ant1	2462	-10.25	-20.25	≤8.00	PASS

Note:

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

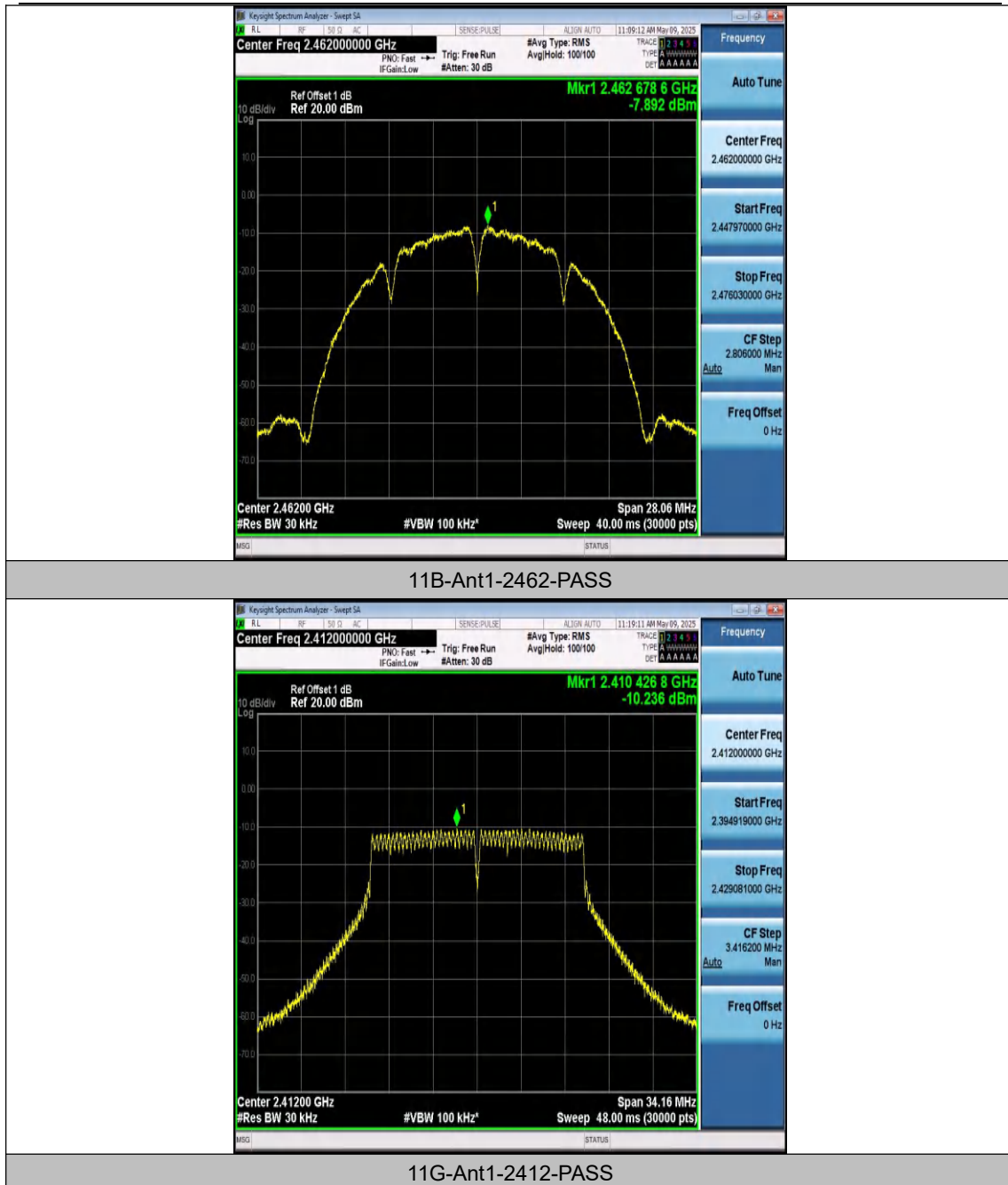
Test Graphs



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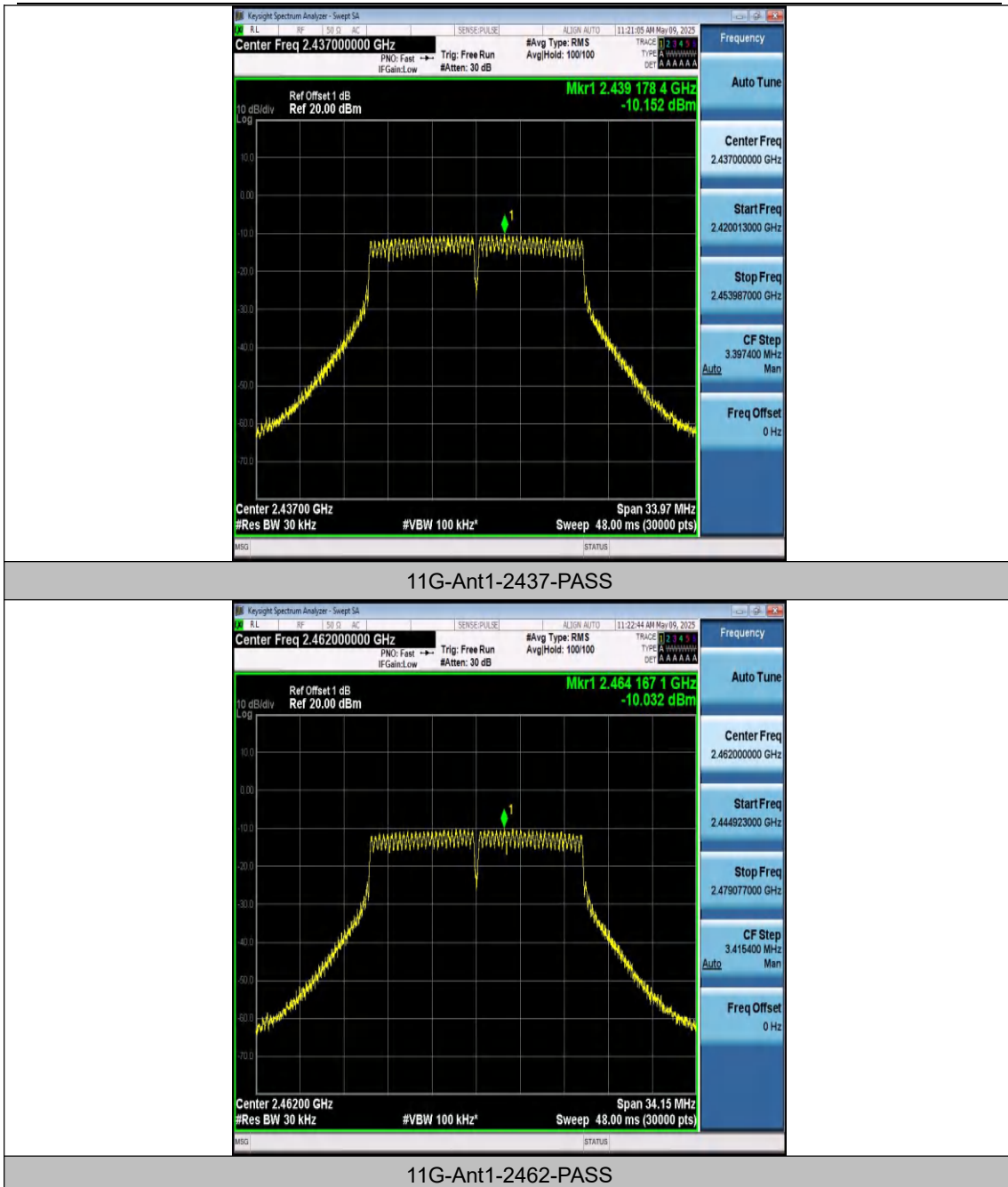
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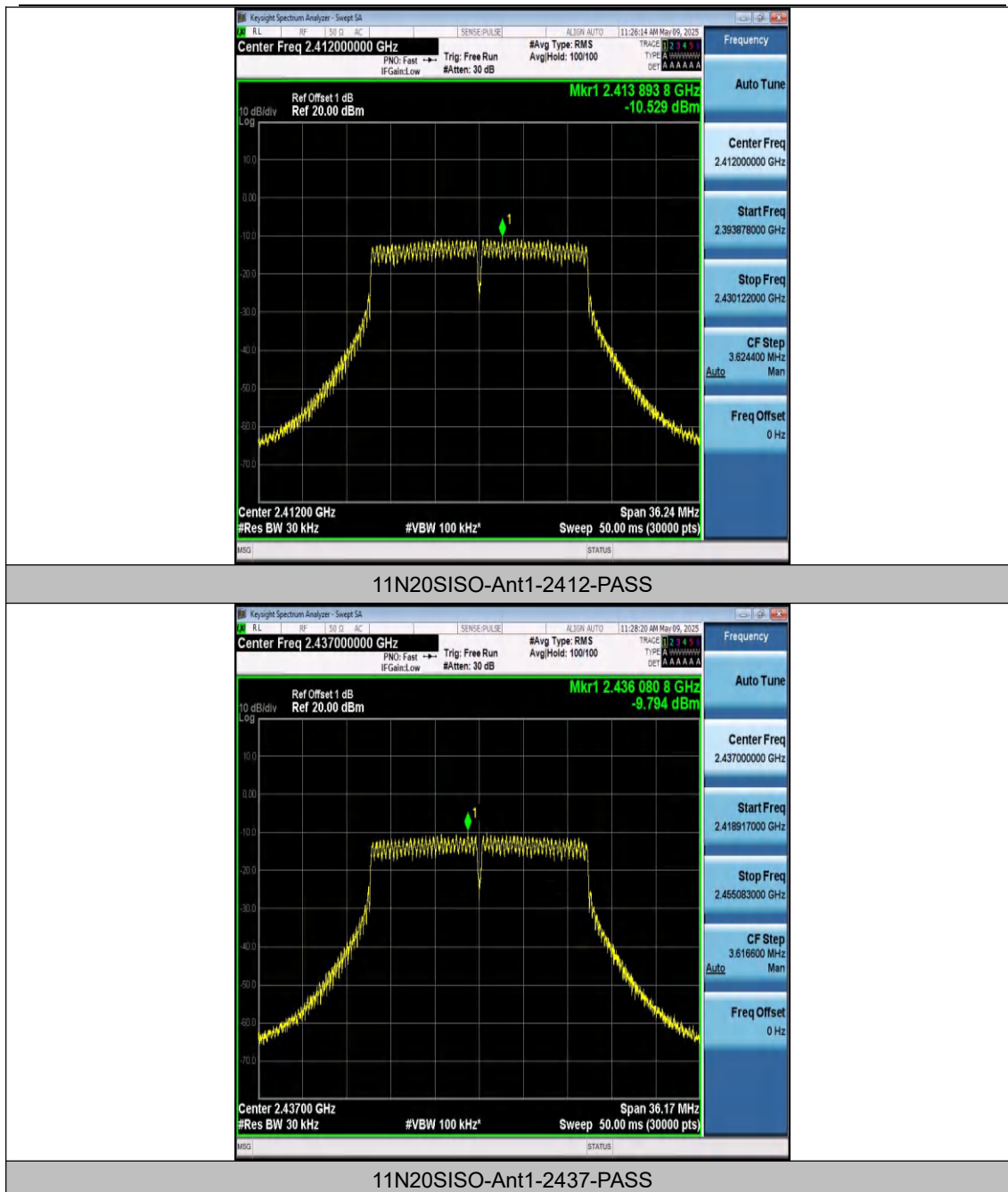
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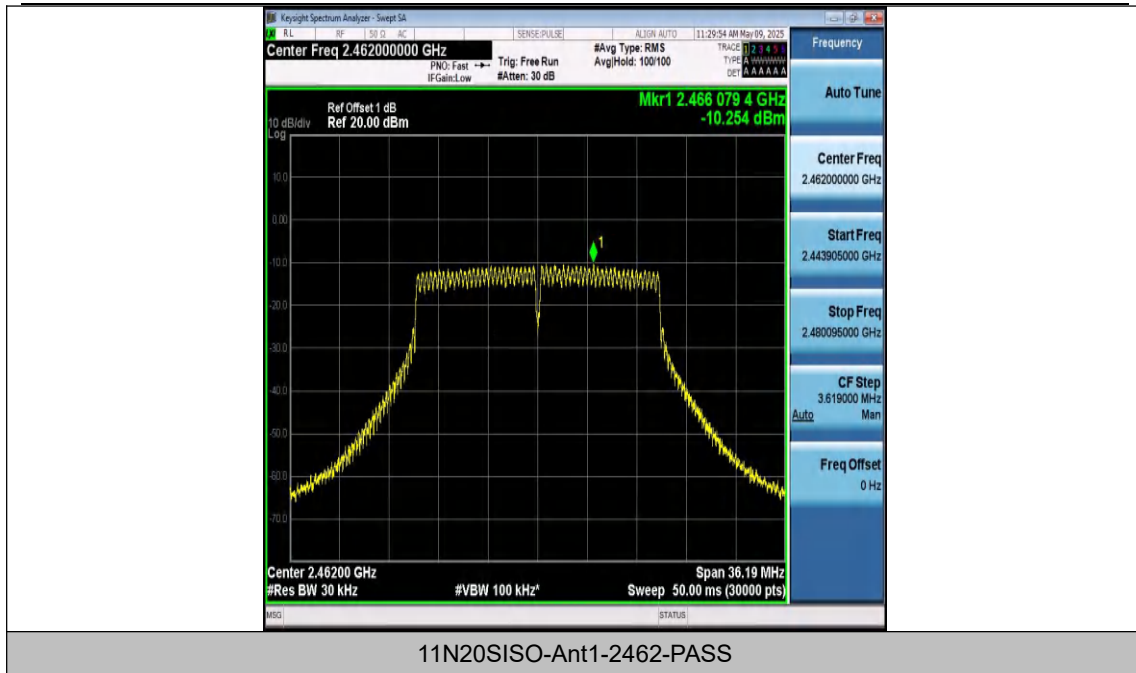
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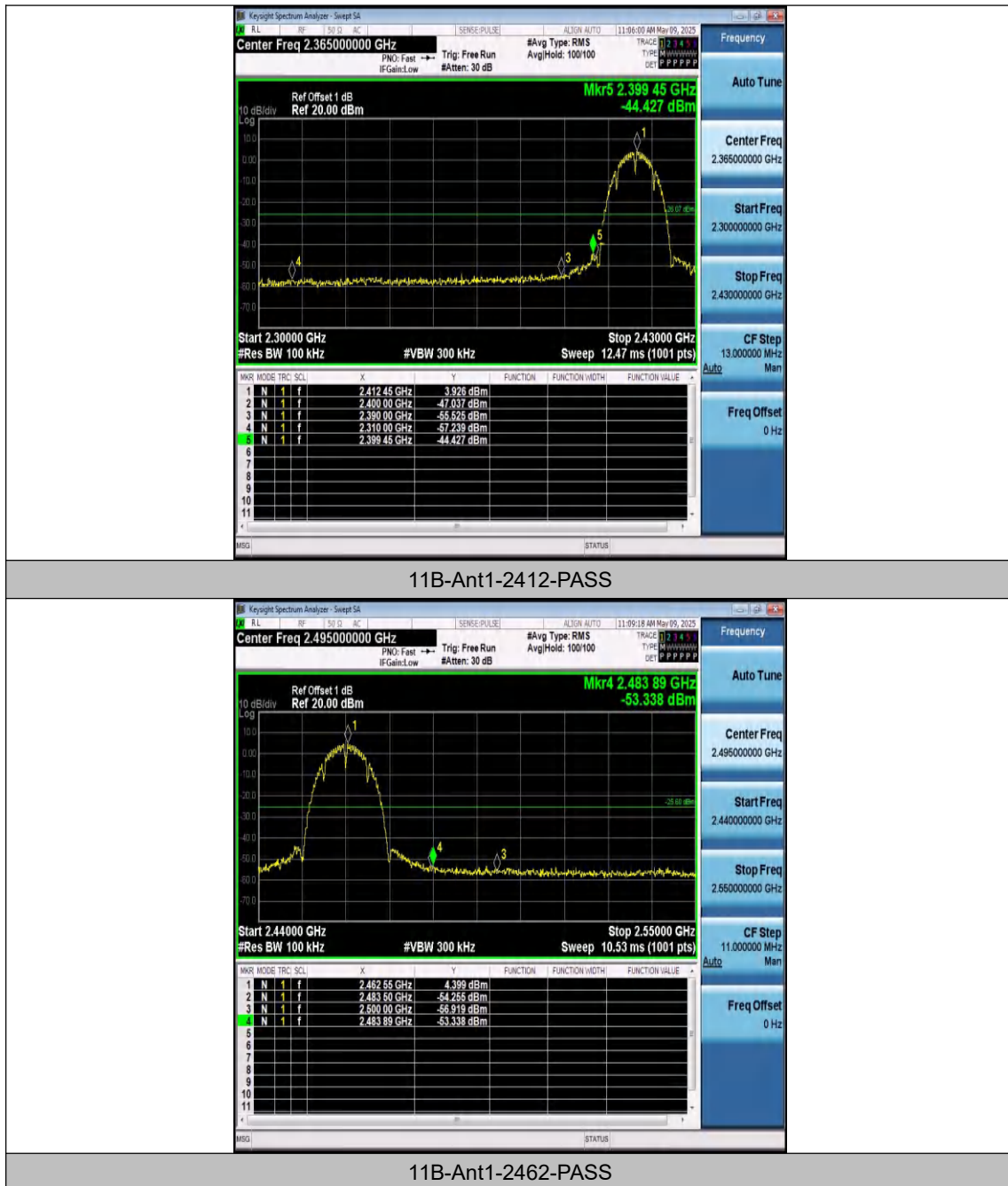
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.93	-44.43	≤-26.07	PASS
11B	Ant1	High	2462	4.40	-53.34	≤-25.6	PASS
11G	Ant1	Low	2412	0.00	-34.38	≤-30	PASS
11G	Ant1	High	2462	0.02	-51.32	≤-29.98	PASS
11N20SISO	Ant1	Low	2412	-0.47	-32.75	≤-30.47	PASS
11N20SISO	Ant1	High	2462	0.04	-51.28	≤-29.97	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.

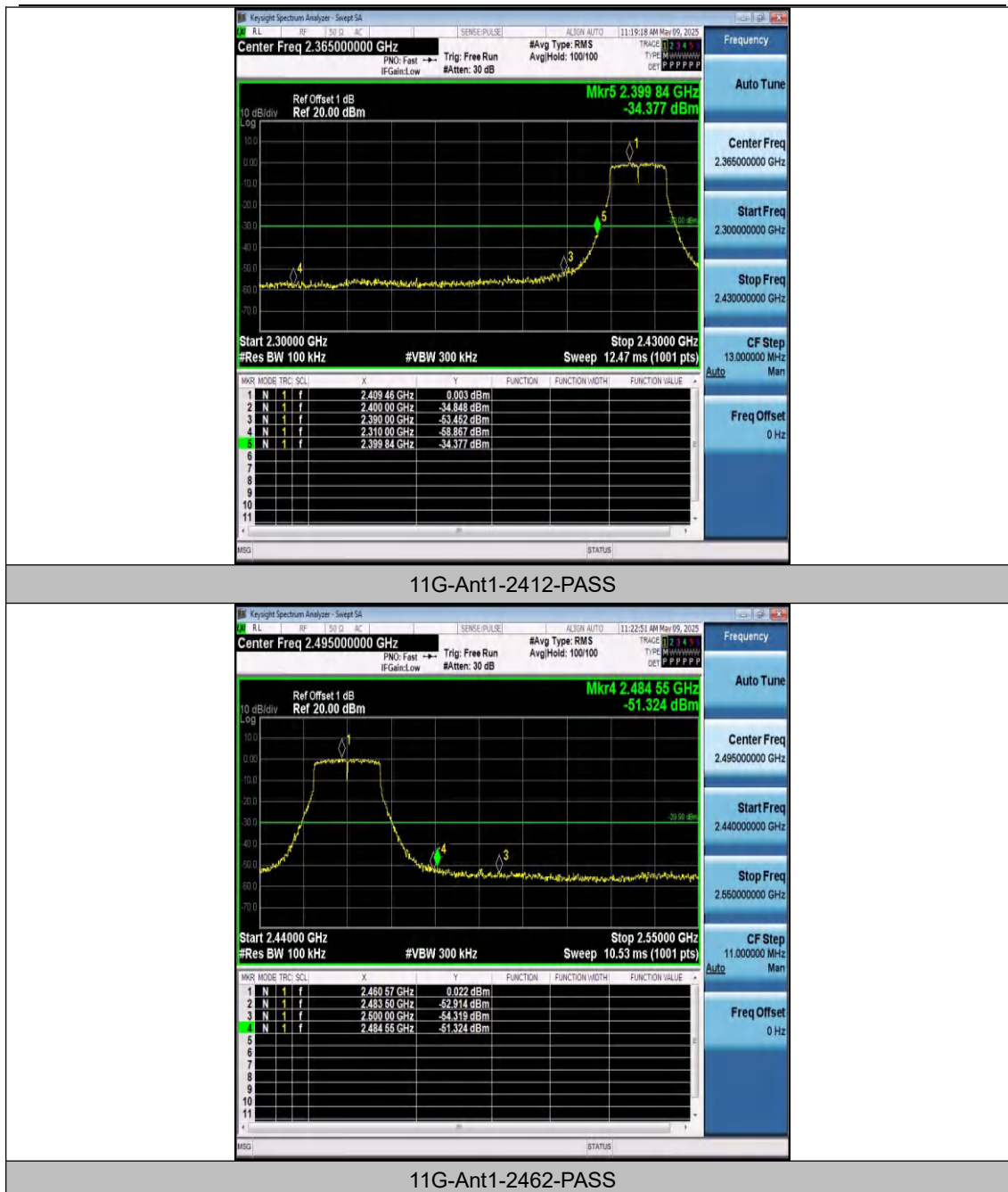
Test Graphs

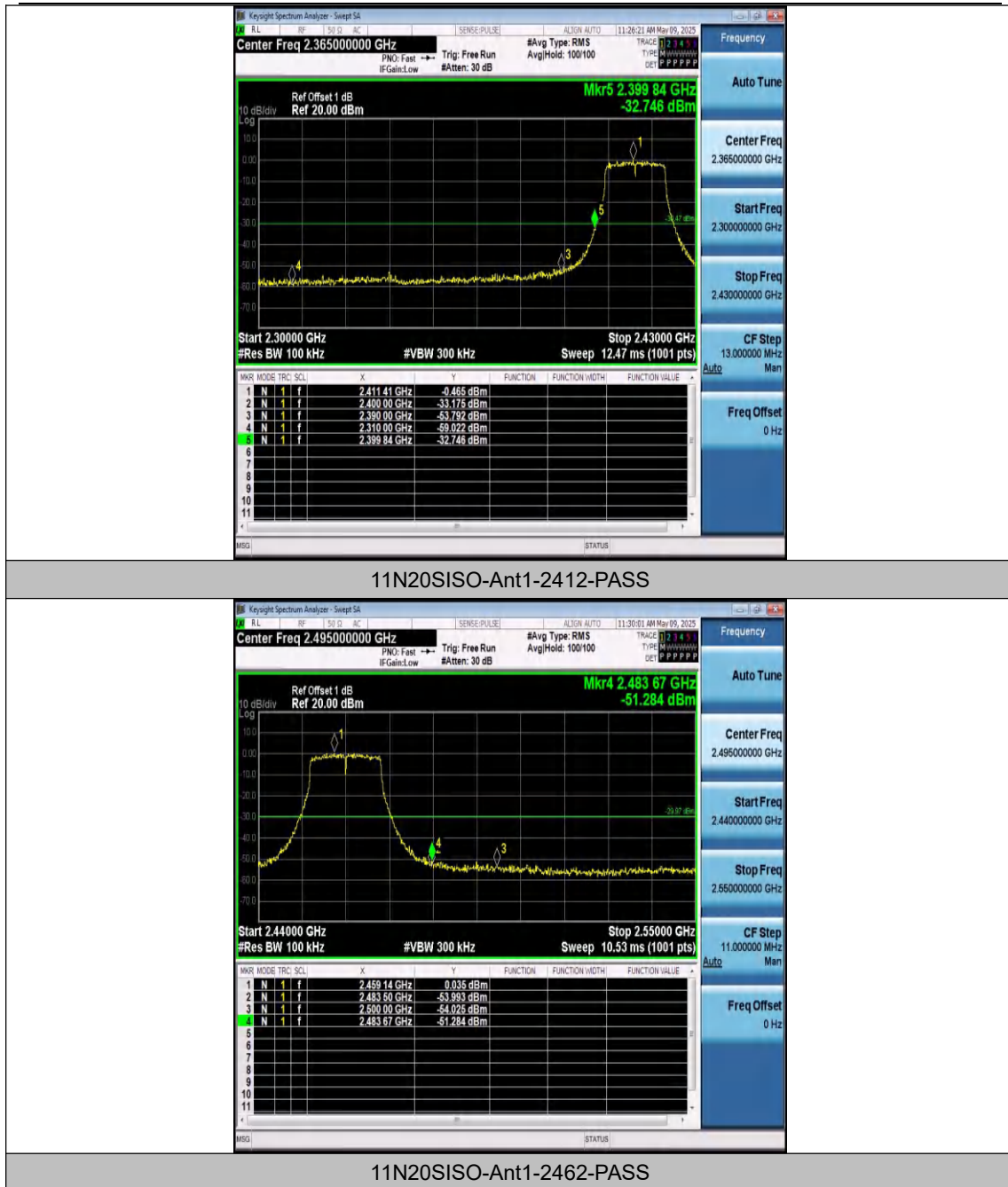


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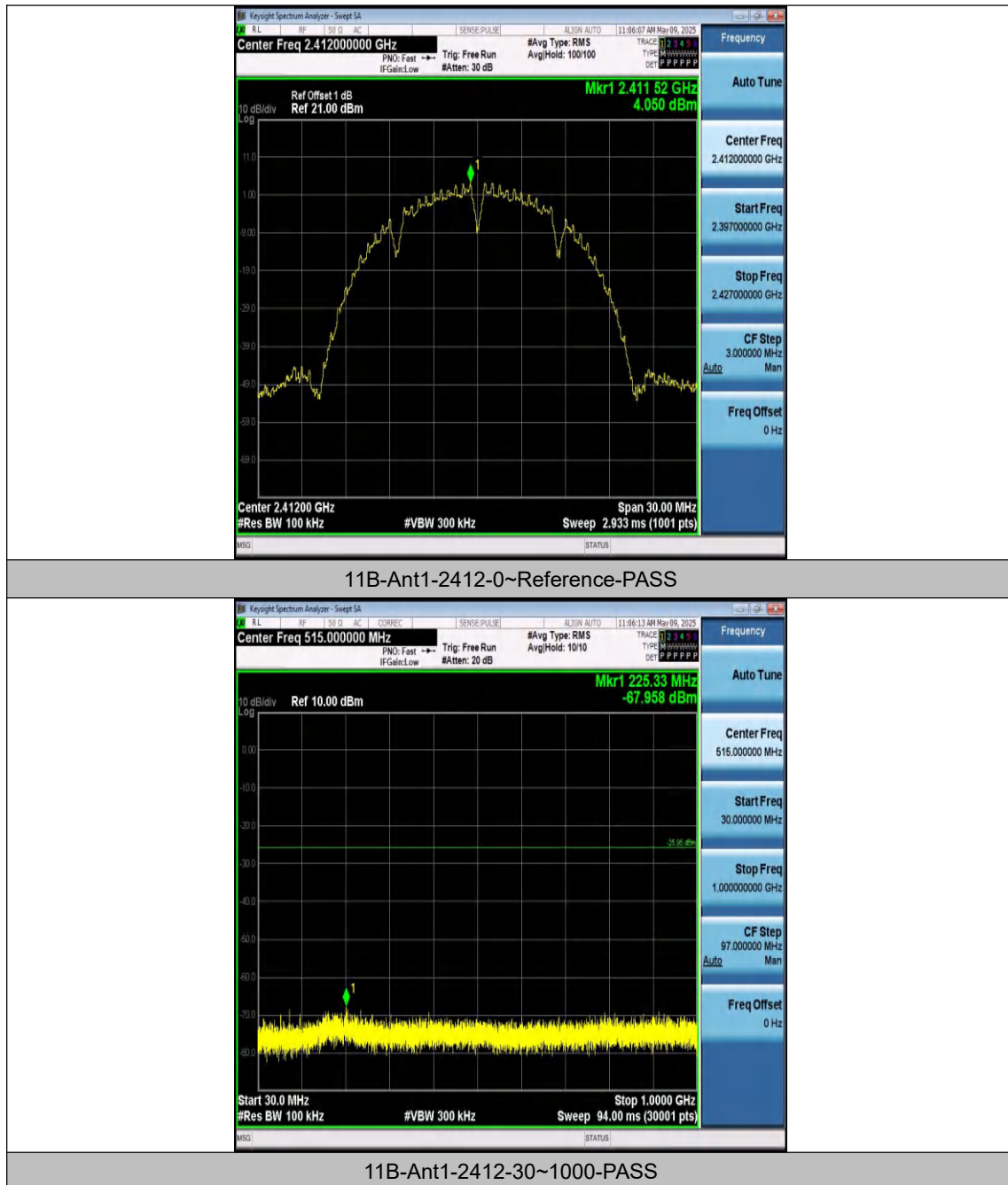
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.05	4.05	---	PASS
11B	Ant1	2412	30~1000	4.05	-67.96	≤-25.95	PASS
11B	Ant1	2412	1000~26500	4.05	-50.6	≤-25.95	PASS
11B	Ant1	2437	0~Reference	4.03	4.03	---	PASS
11B	Ant1	2437	30~1000	4.03	-68.32	≤-25.97	PASS
11B	Ant1	2437	1000~26500	4.03	-52.43	≤-25.97	PASS
11B	Ant1	2462	0~Reference	4.39	4.39	---	PASS
11B	Ant1	2462	30~1000	4.39	-67.46	≤-25.61	PASS
11B	Ant1	2462	1000~26500	4.39	-53.25	≤-25.61	PASS
11G	Ant1	2412	0~Reference	-0.03	-0.03	---	PASS
11G	Ant1	2412	30~1000	-0.03	-67.75	≤-30.03	PASS
11G	Ant1	2412	1000~26500	-0.03	-50.9	≤-30.03	PASS
11G	Ant1	2437	0~Reference	-0.08	-0.08	---	PASS
11G	Ant1	2437	30~1000	-0.08	-66.74	≤-30.08	PASS
11G	Ant1	2437	1000~26500	-0.08	-51.58	≤-30.08	PASS
11G	Ant1	2462	0~Reference	0.33	0.33	---	PASS
11G	Ant1	2462	30~1000	0.33	-68.08	≤-29.67	PASS
11G	Ant1	2462	1000~26500	0.33	-52.89	≤-29.67	PASS
11N20SISO	Ant1	2412	0~Reference	-0.12	-0.12	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.12	-67.91	≤-30.12	PASS
11N20SISO	Ant1	2412	1000~26500	-0.12	-50.21	≤-30.12	PASS
11N20SISO	Ant1	2437	0~Reference	-0.46	-0.46	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.46	-67.32	≤-30.46	PASS
11N20SISO	Ant1	2437	1000~26500	-0.46	-52.34	≤-30.46	PASS
11N20SISO	Ant1	2462	0~Reference	0.46	0.46	---	PASS
11N20SISO	Ant1	2462	30~1000	0.46	-68.32	≤-29.54	PASS
11N20SISO	Ant1	2462	1000~26500	0.46	-53.33	≤-29.54	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.

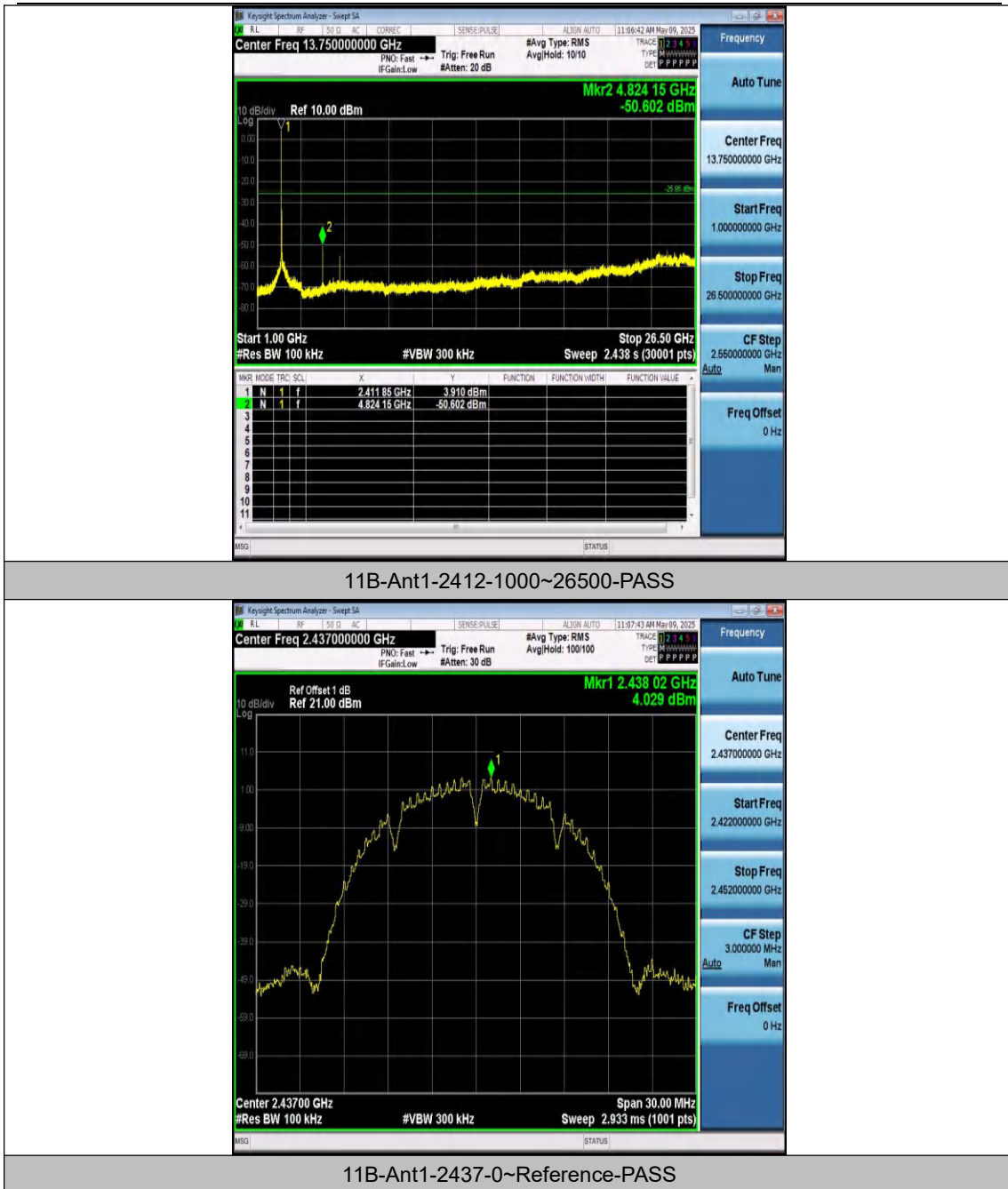
Test Graphs



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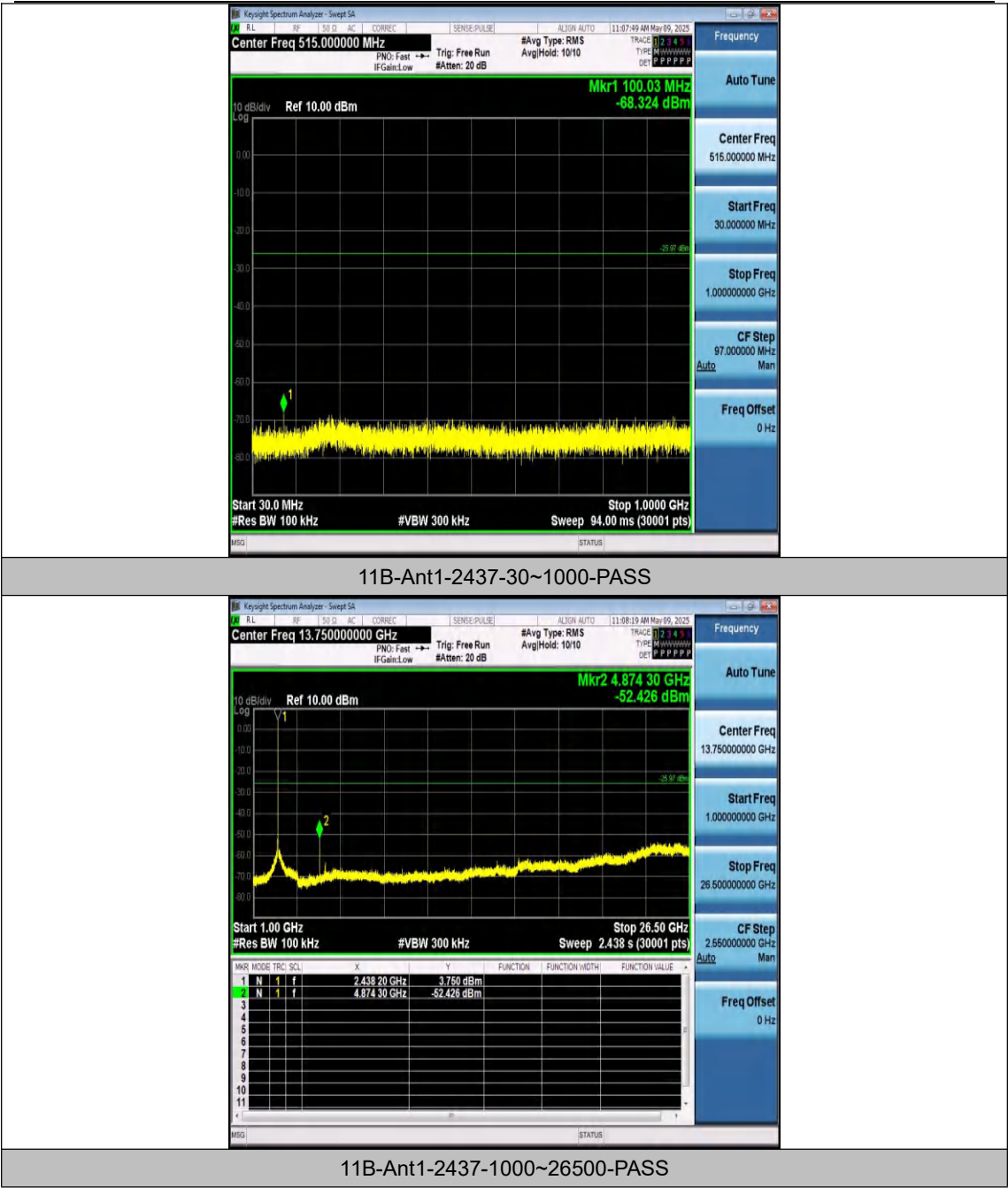
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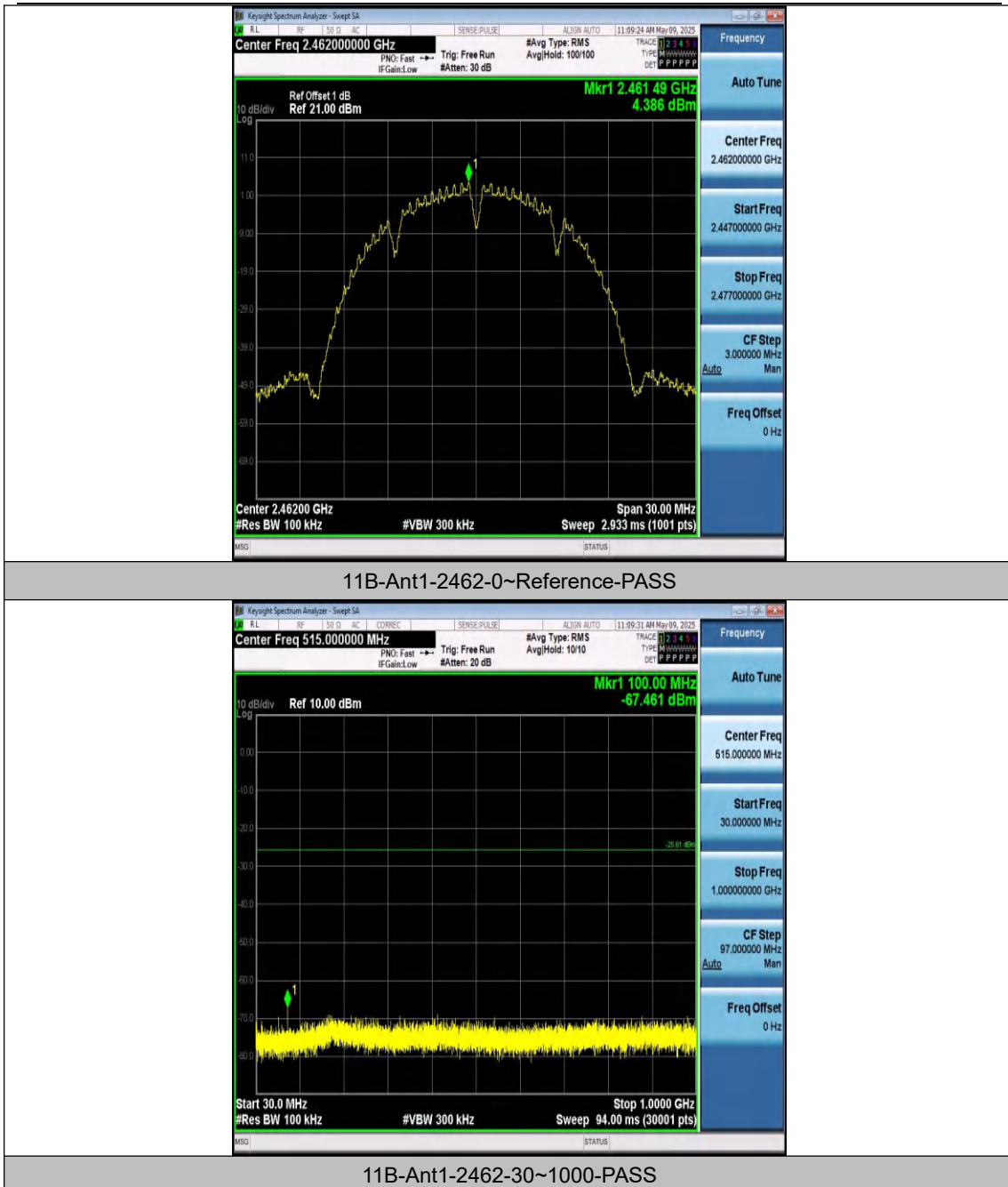
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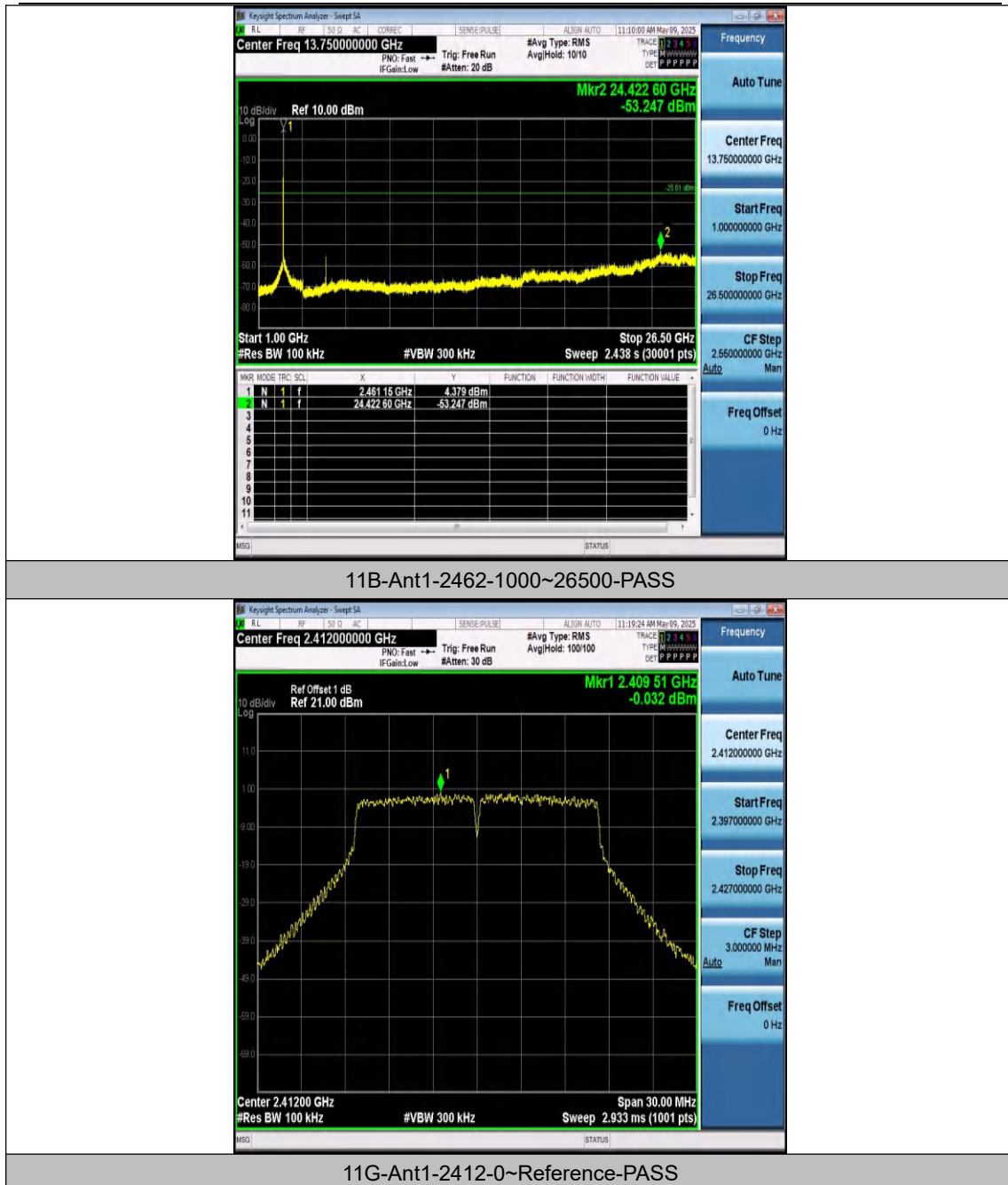
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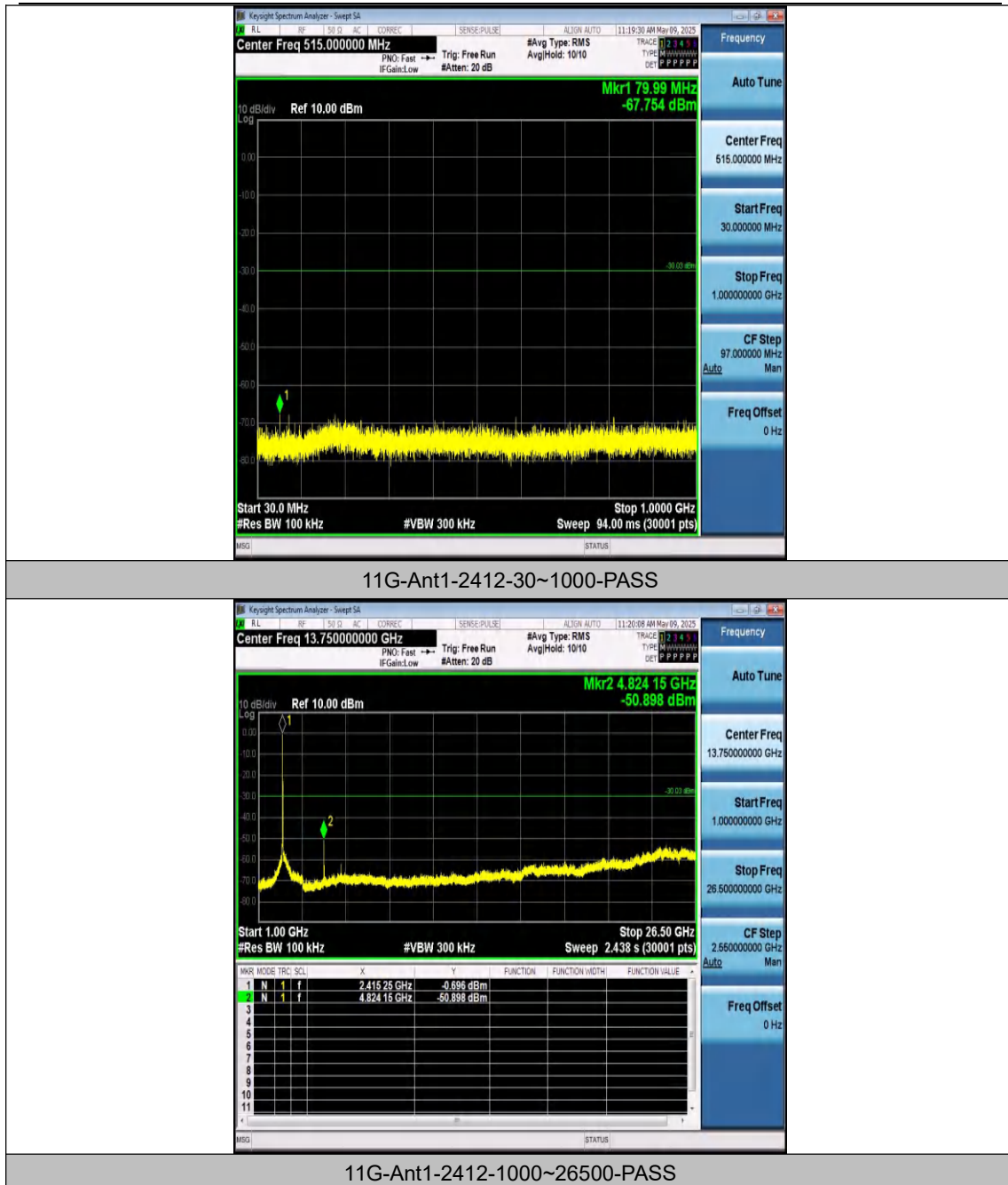
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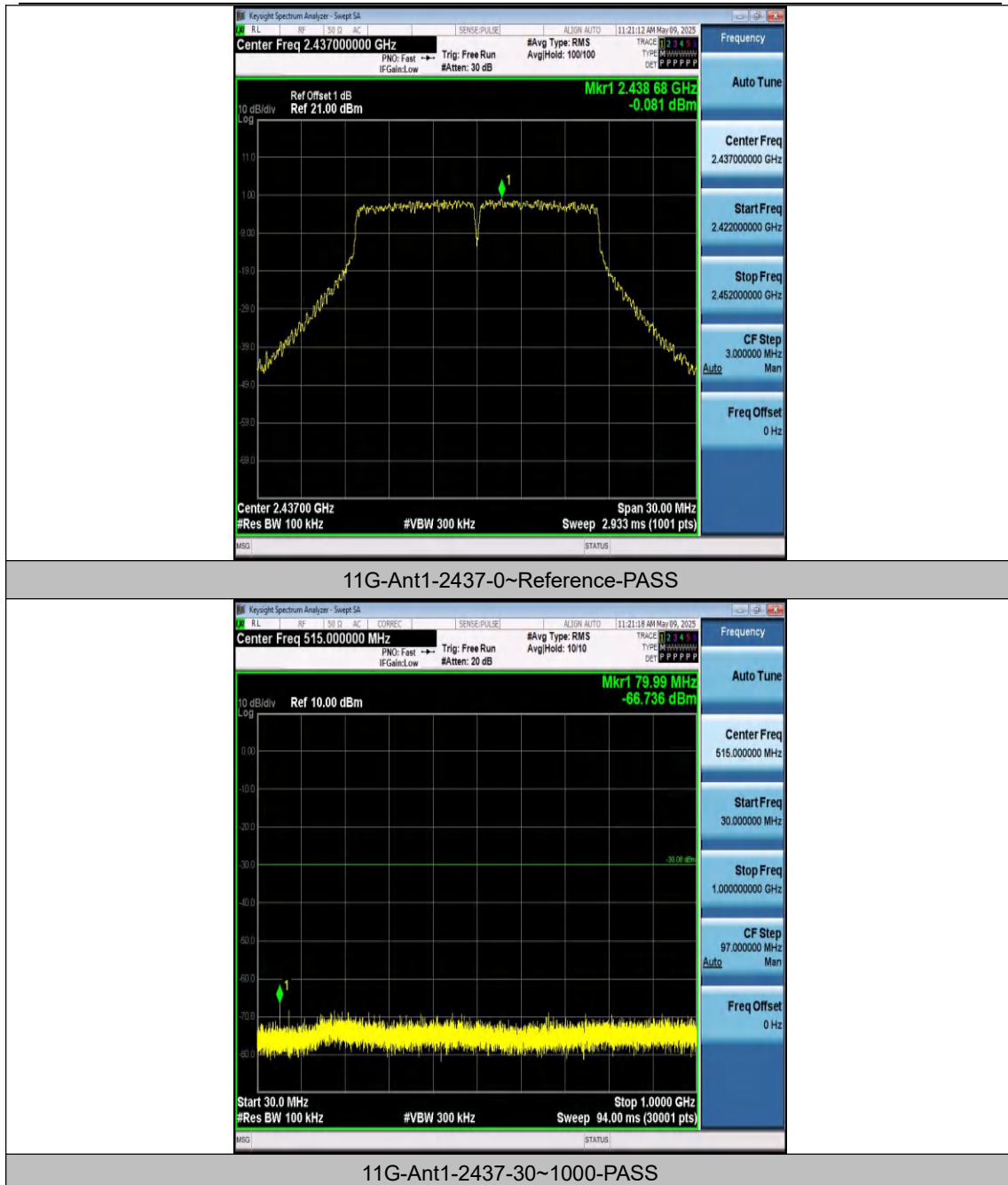
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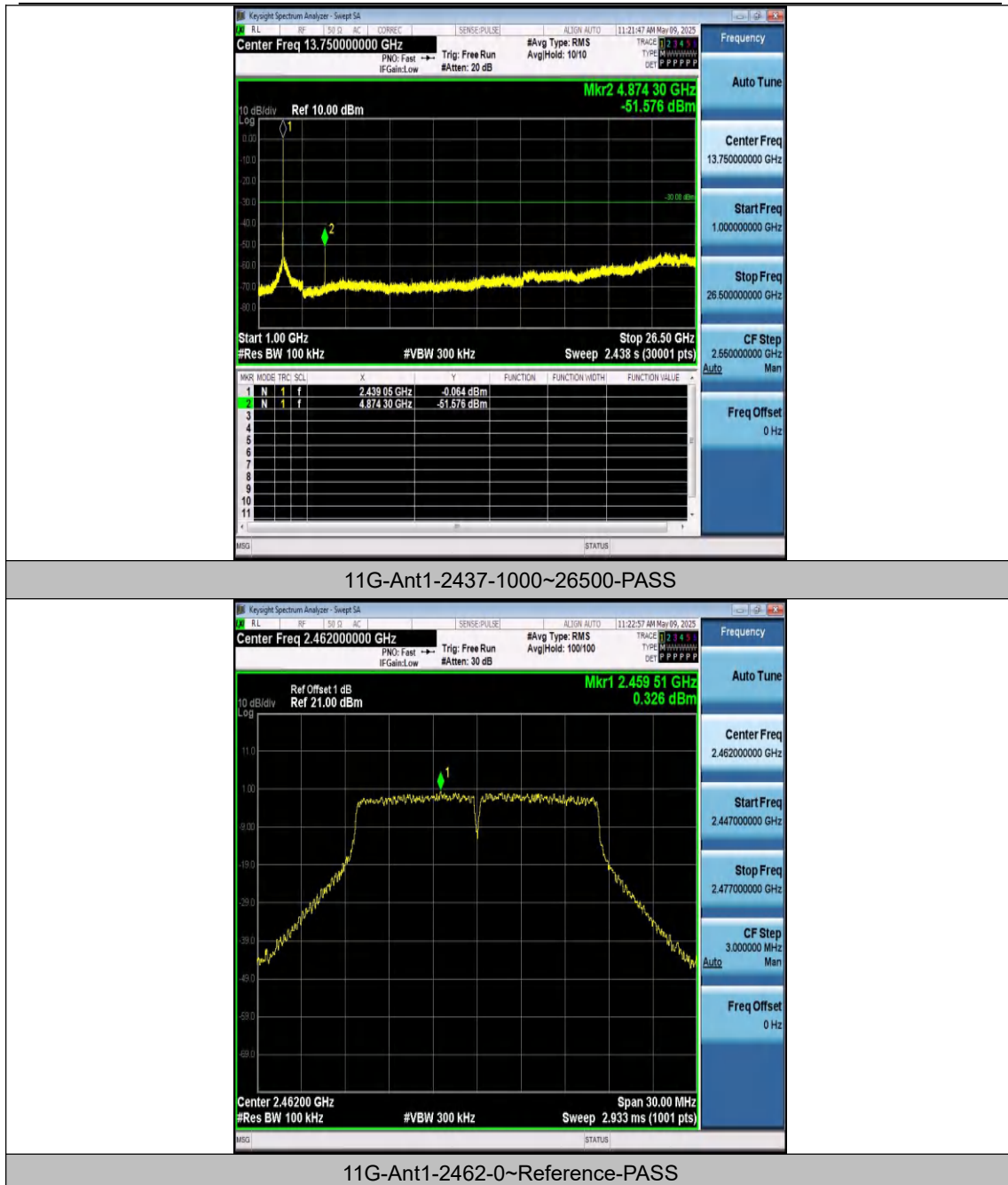
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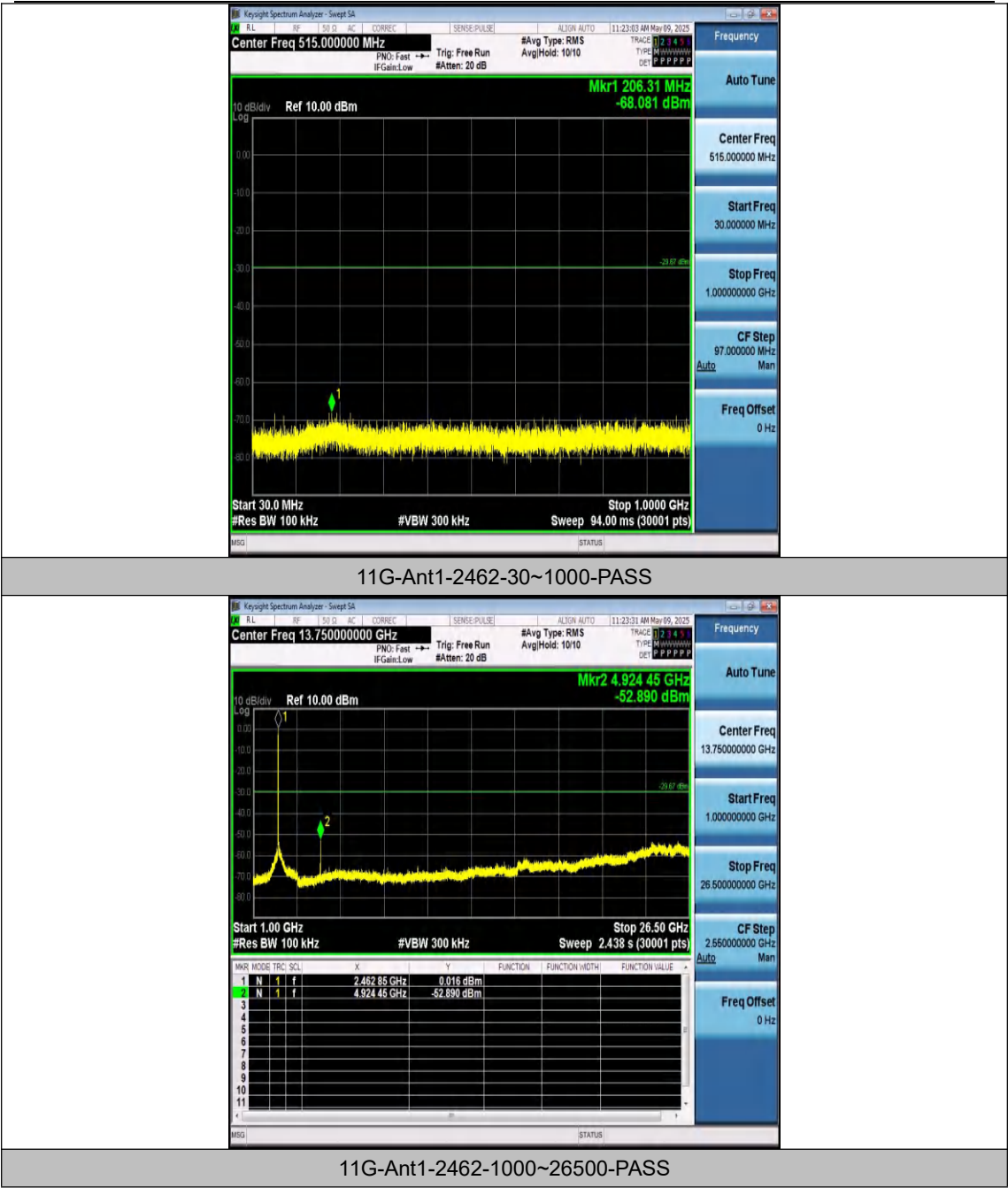
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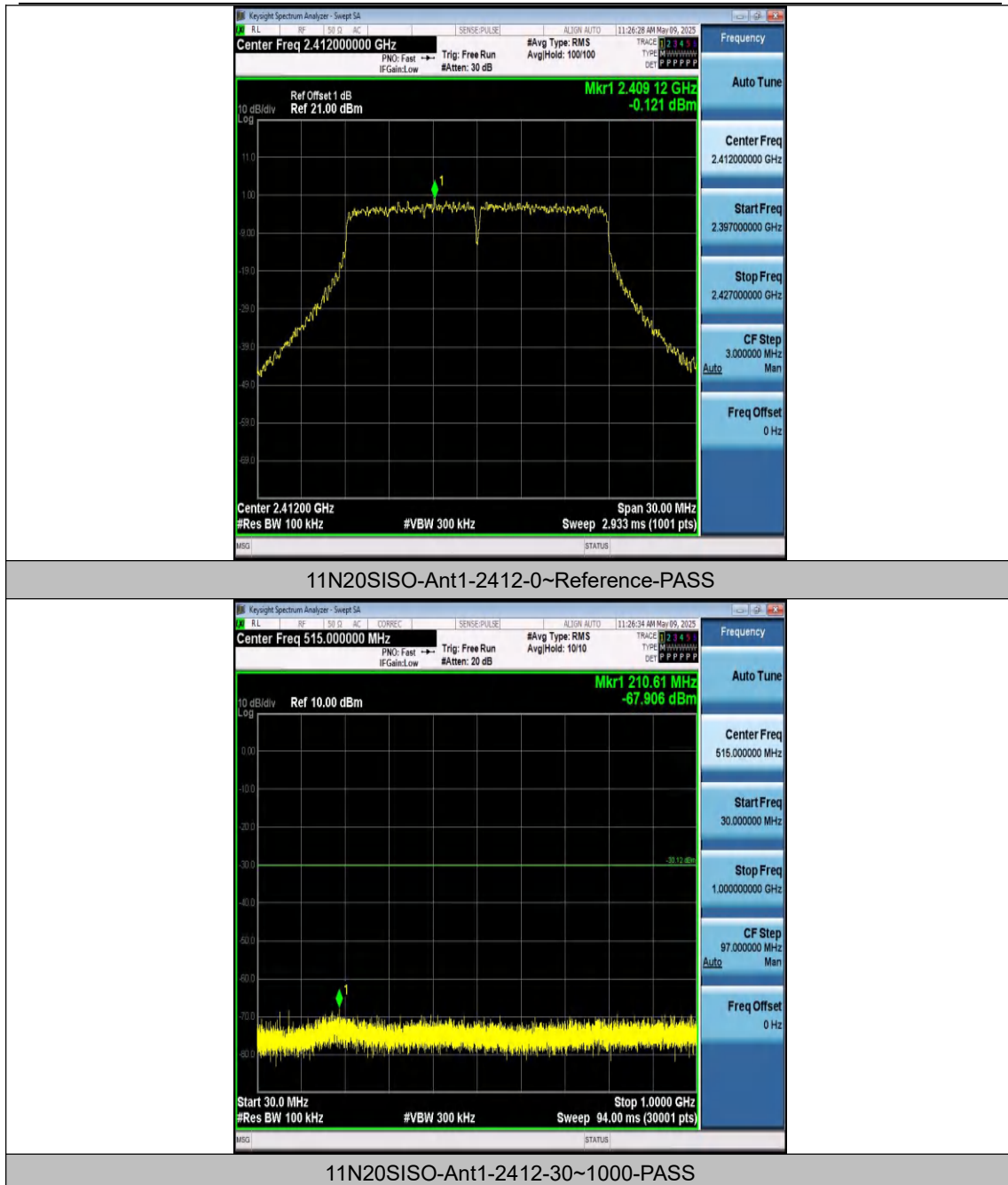
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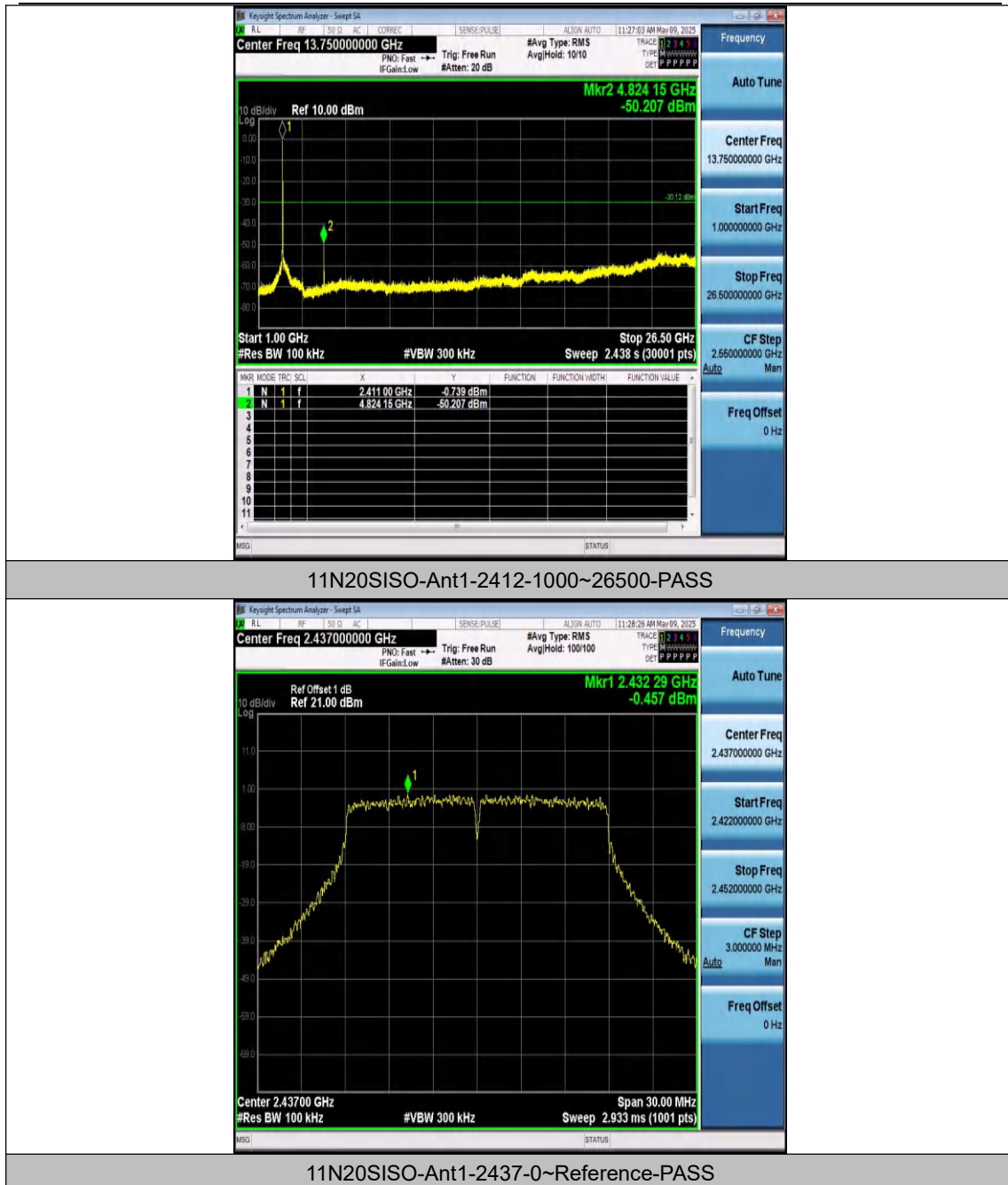
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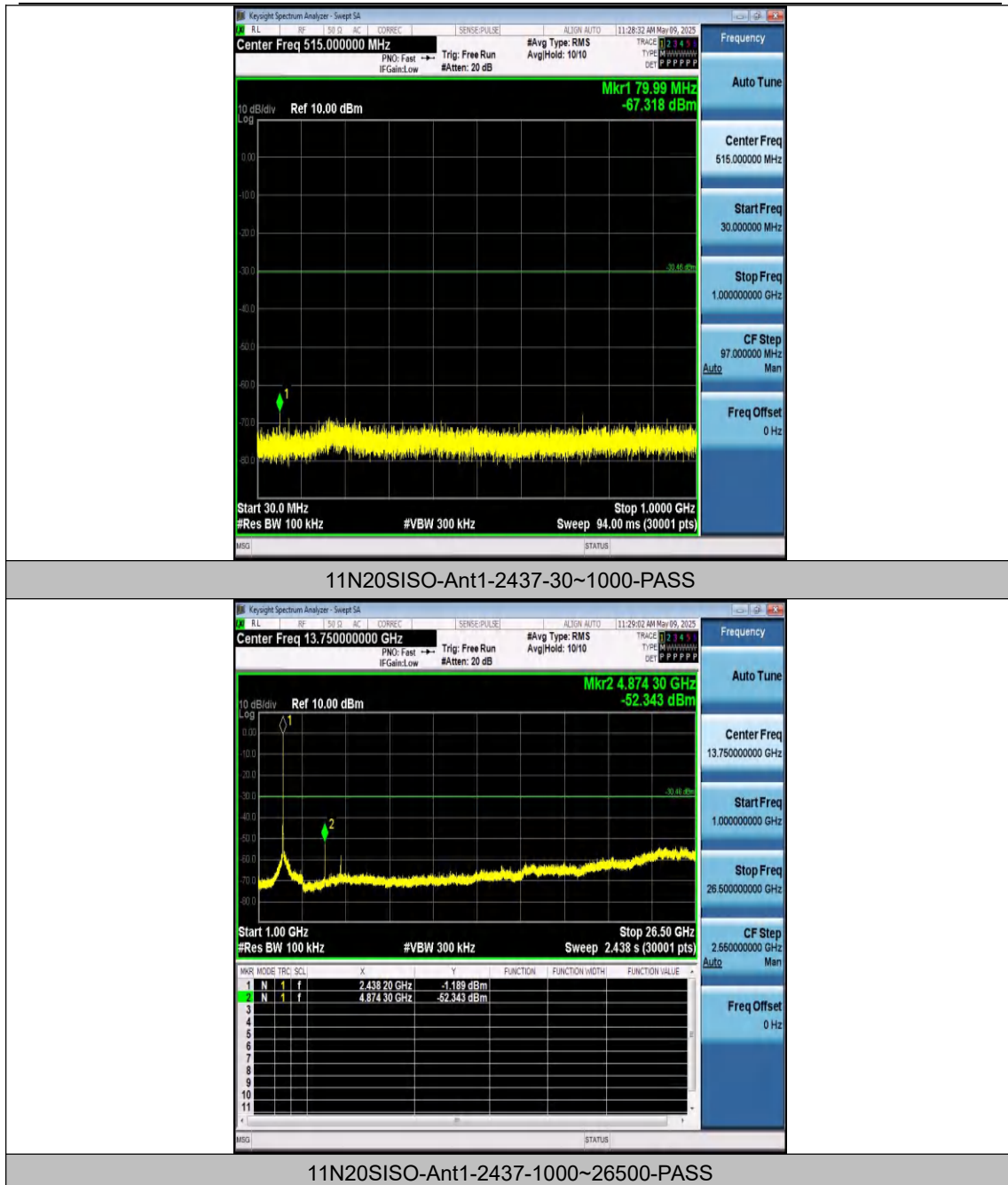
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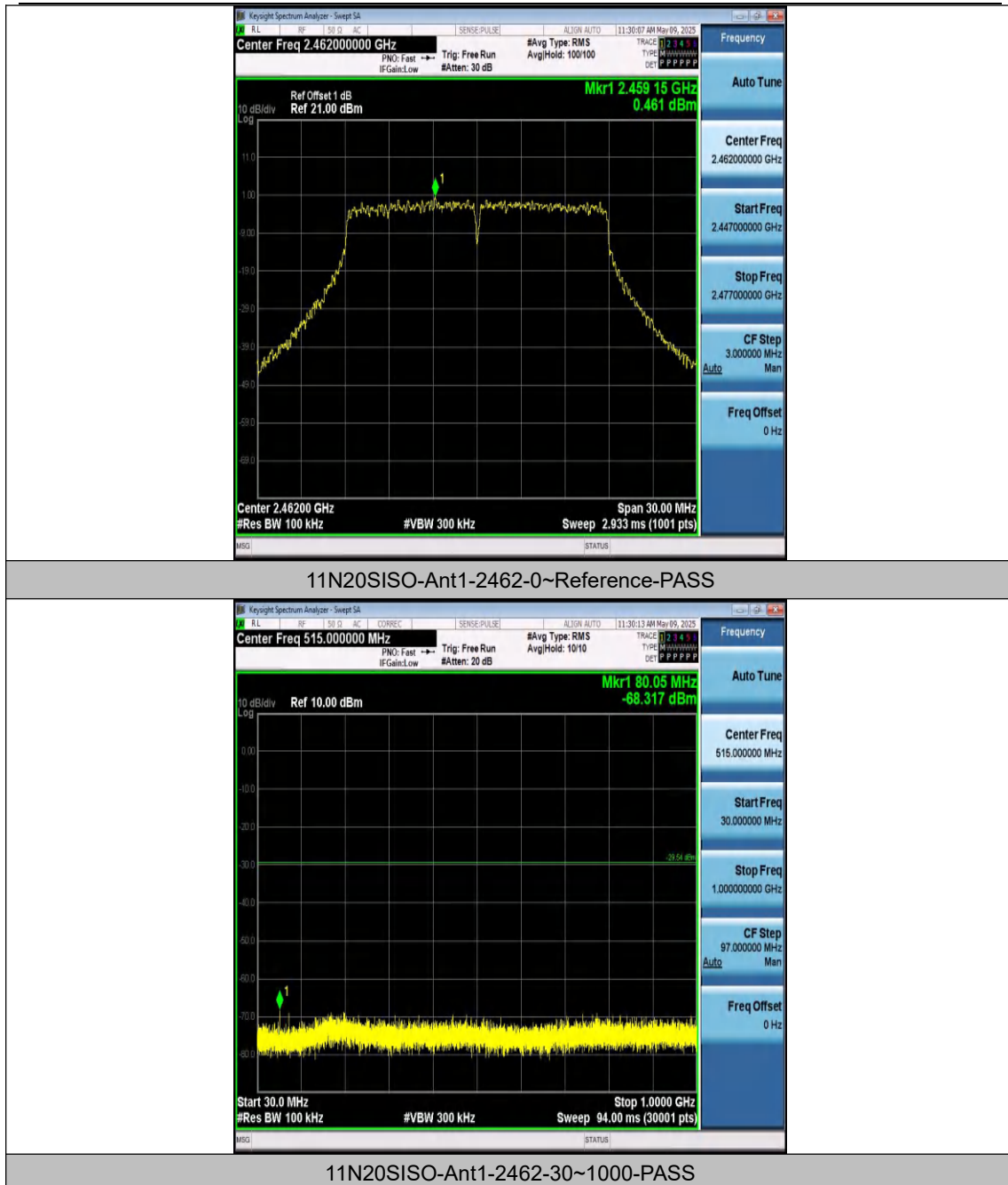
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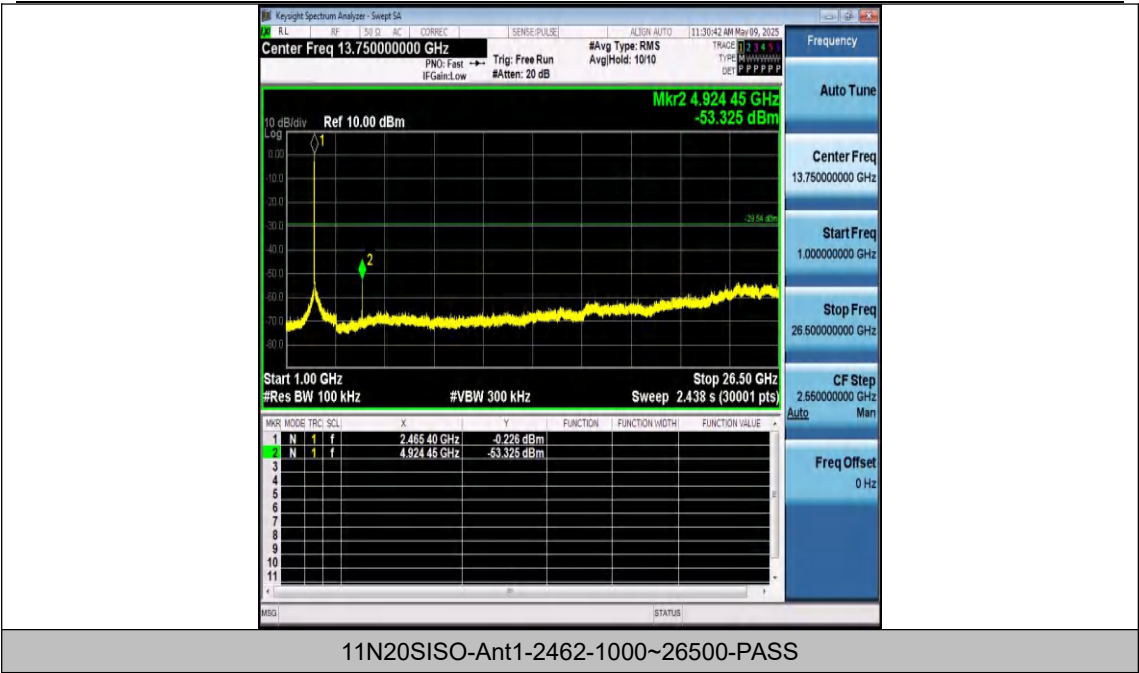
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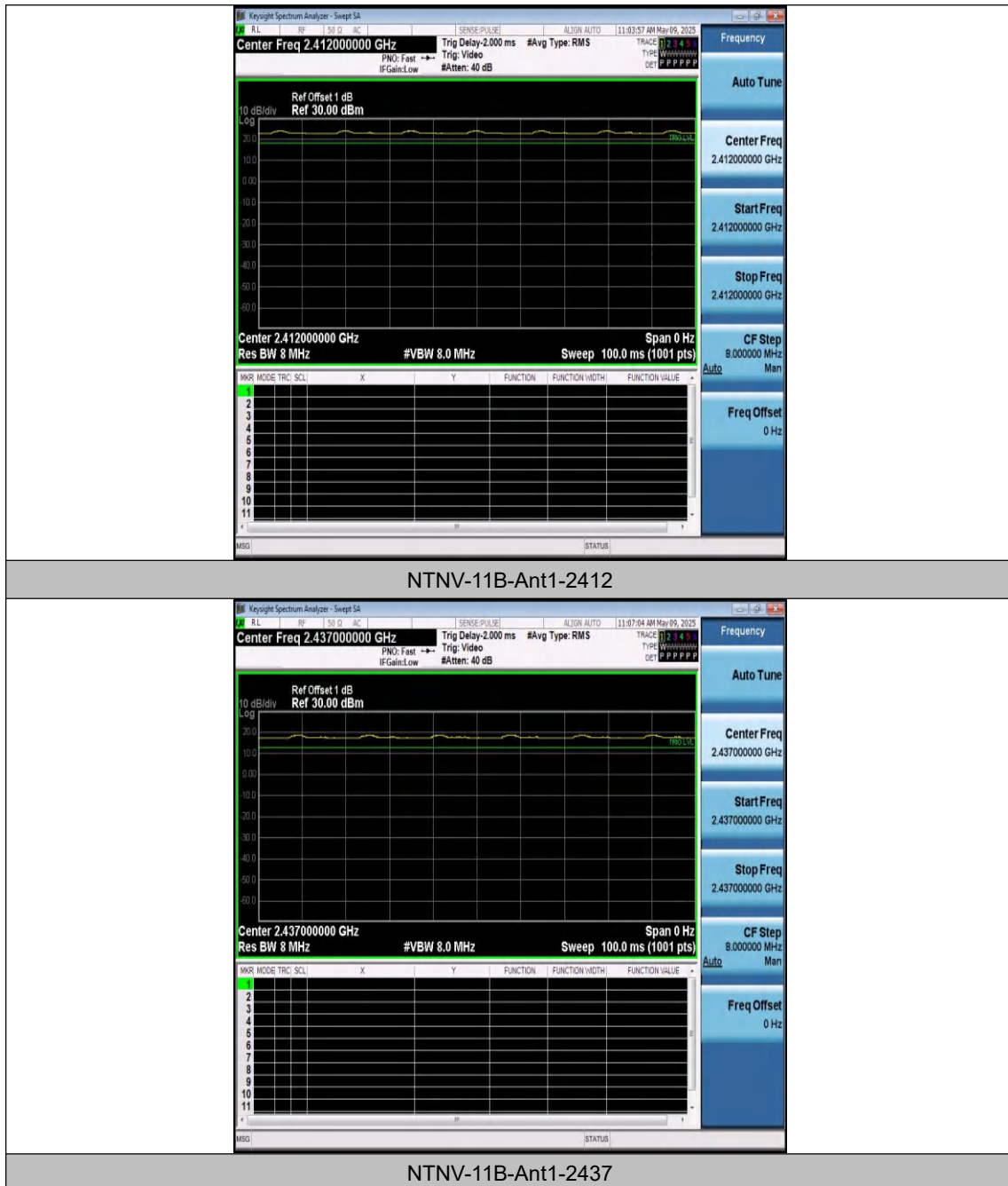
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Appendix G: Duty Cycle

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

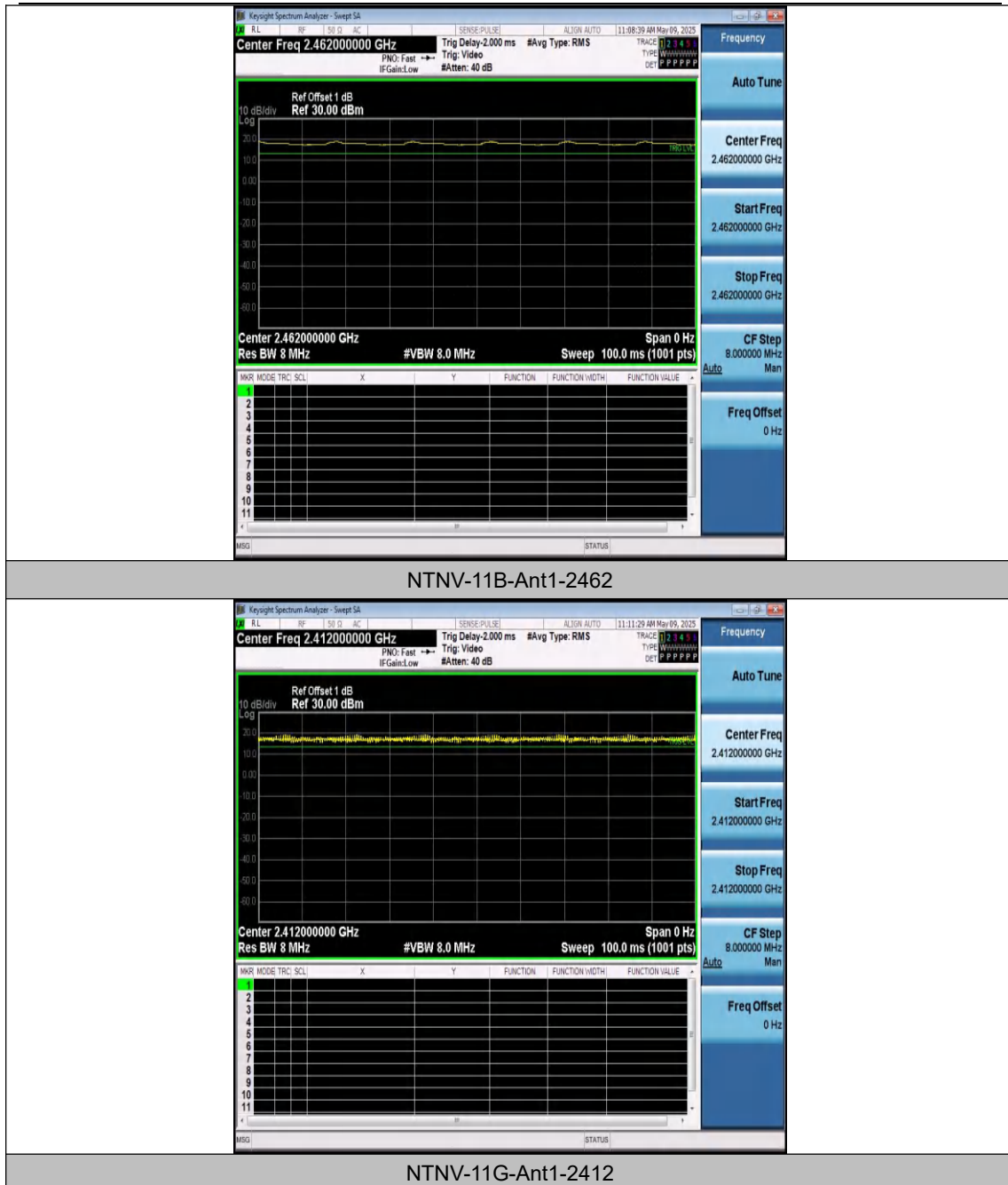
Test Graphs



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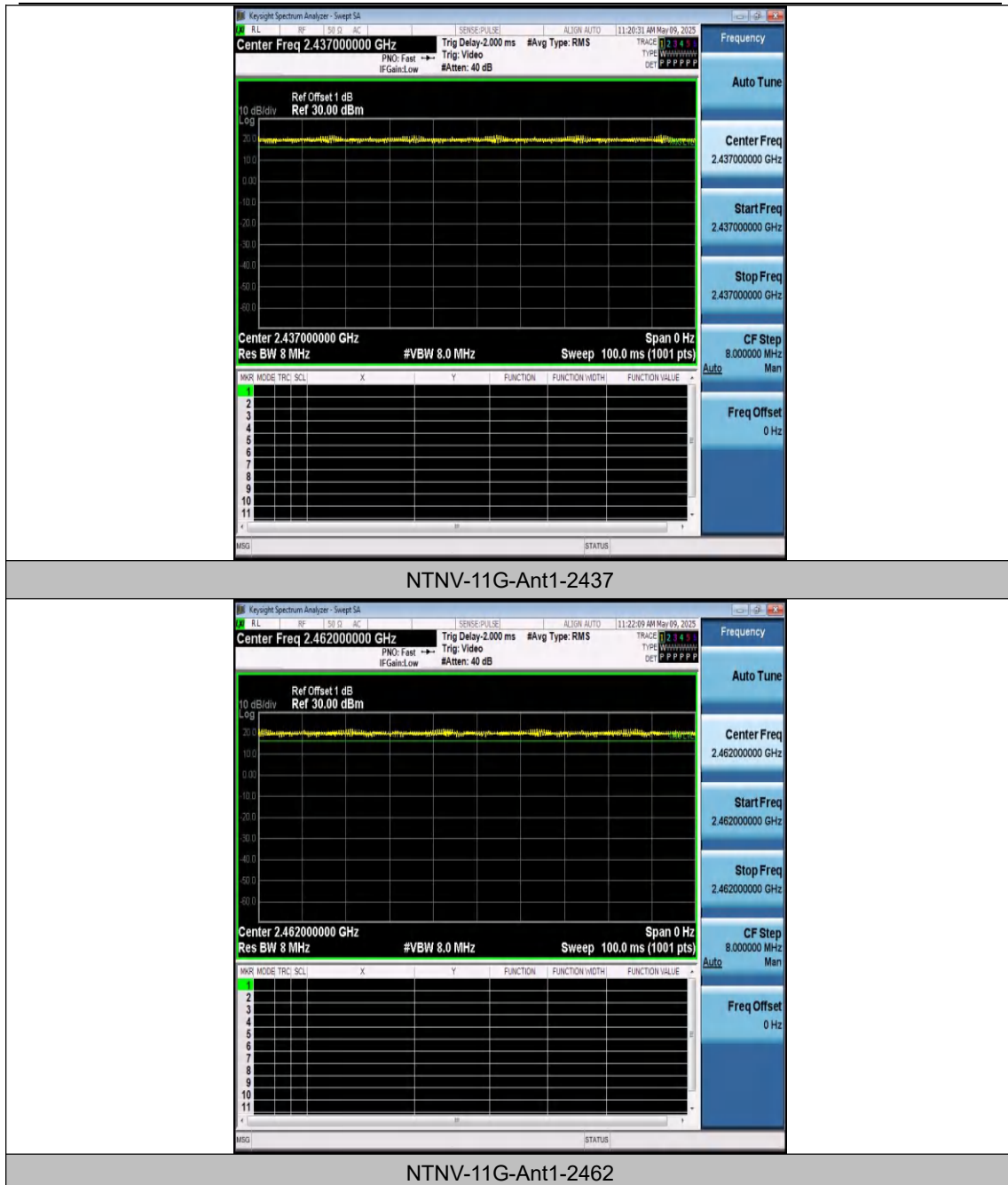
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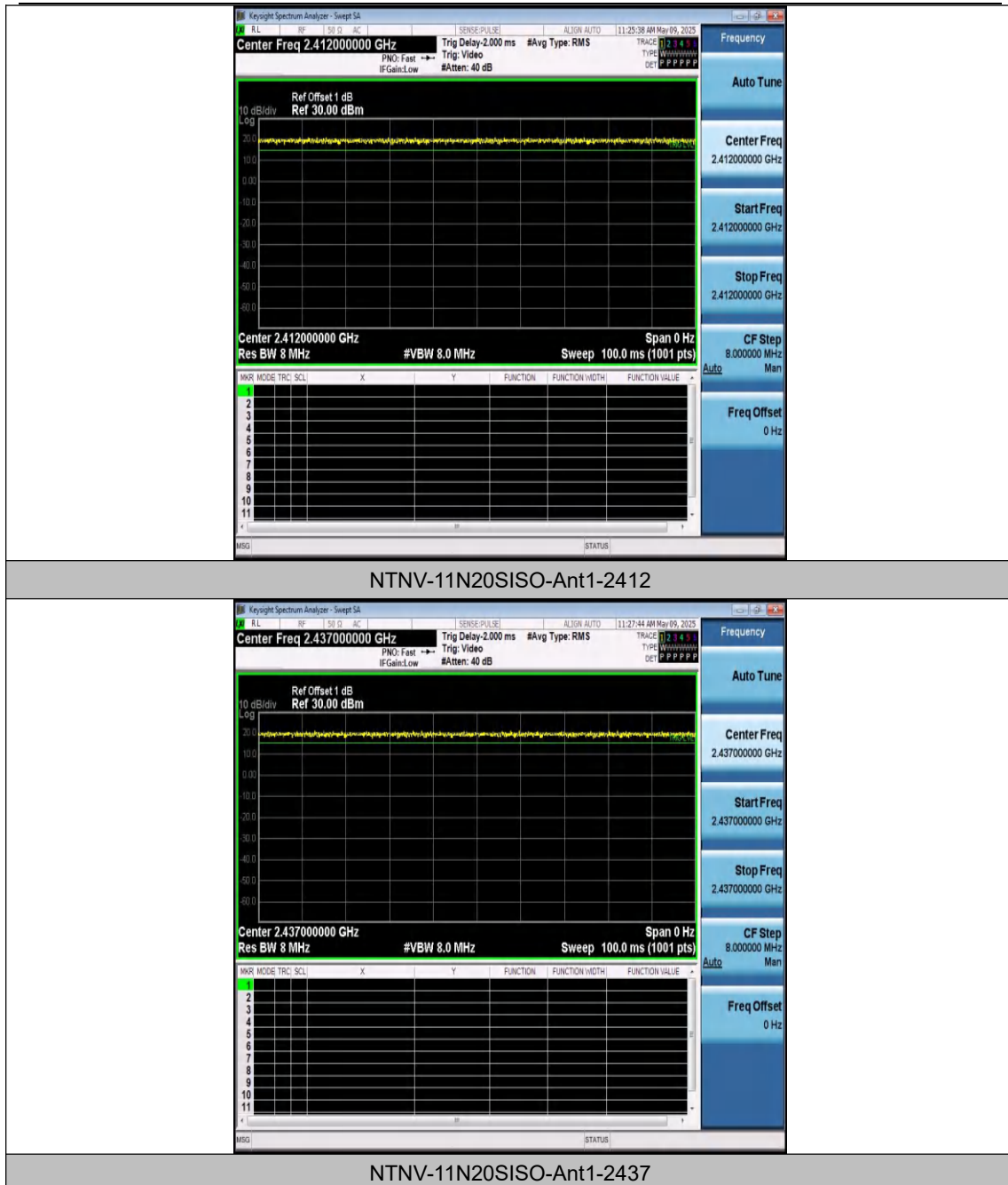
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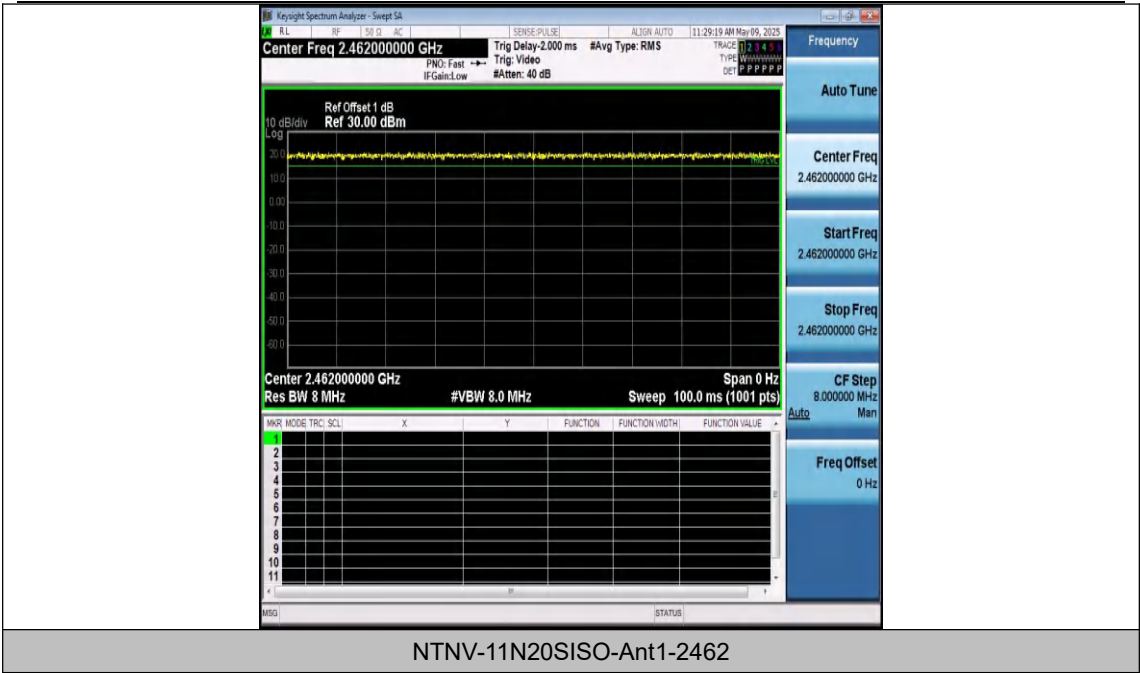
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---End---