

Appendix Test Data

Report No.:	1812C50179312502	Test Sample No.:	1-2-2
Start Test Date:	2025-04-29	Finish Test Date:	2025-08-22
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.8°C	Relative Humidity:	43%
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	8.240	2407.920	2416.160	0.5	PASS
11B	Ant1	2437	8.240	2432.920	2441.160	0.5	PASS
11B	Ant1	2462	8.200	2457.960	2466.160	0.5	PASS
11G	Ant1	2412	16.120	2403.960	2420.080	0.5	PASS
11G	Ant1	2437	16.000	2429.160	2445.160	0.5	PASS
11G	Ant1	2462	16.000	2454.080	2470.080	0.5	PASS
11N20SISO	Ant1	2412	16.840	2403.560	2420.400	0.5	PASS
11N20SISO	Ant1	2437	17.080	2428.680	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.240	2453.360	2470.600	0.5	PASS

Test Graphs



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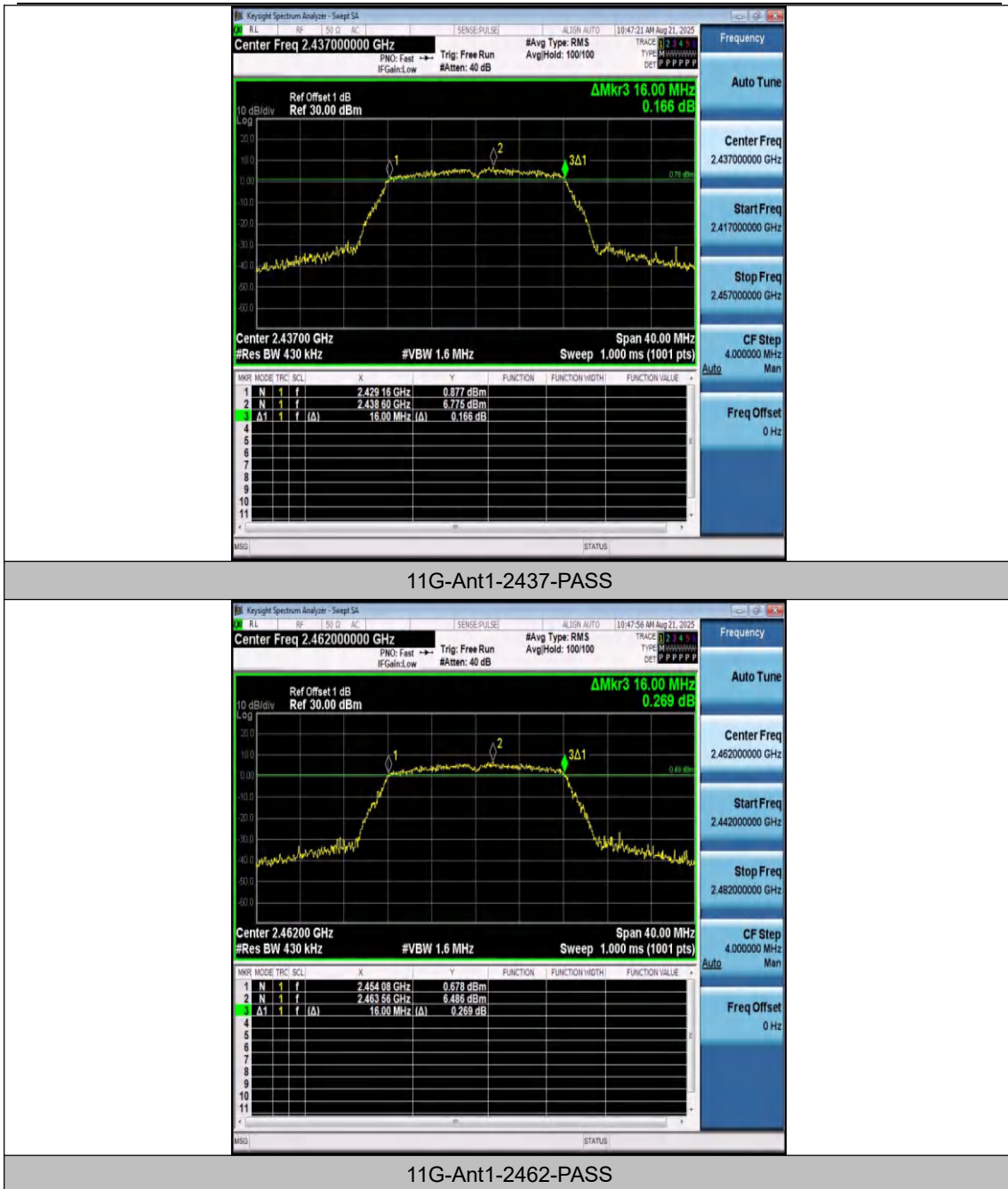
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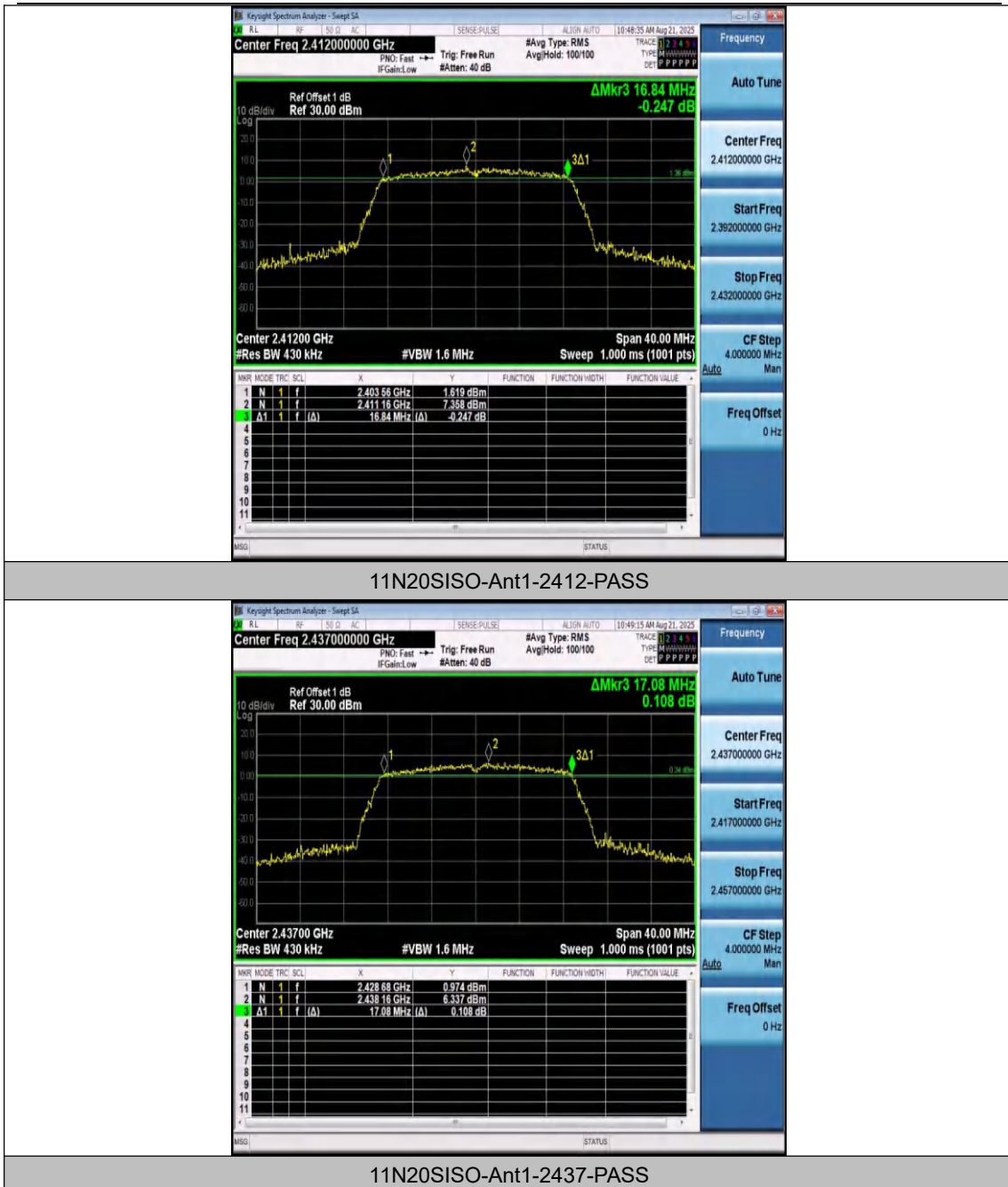
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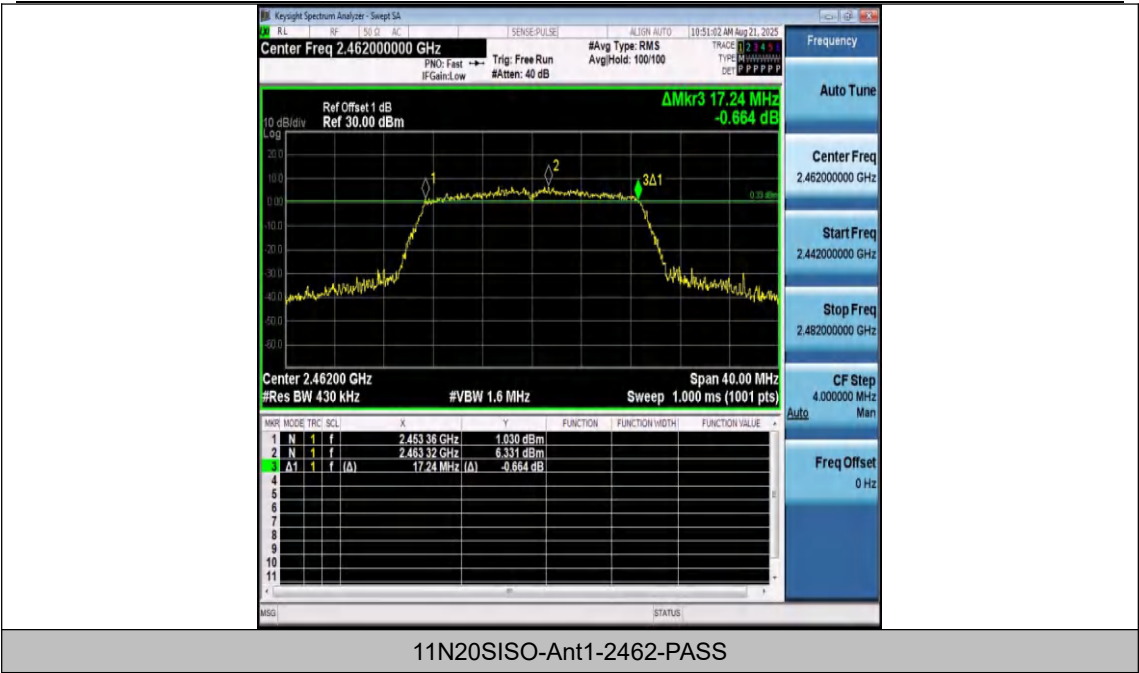


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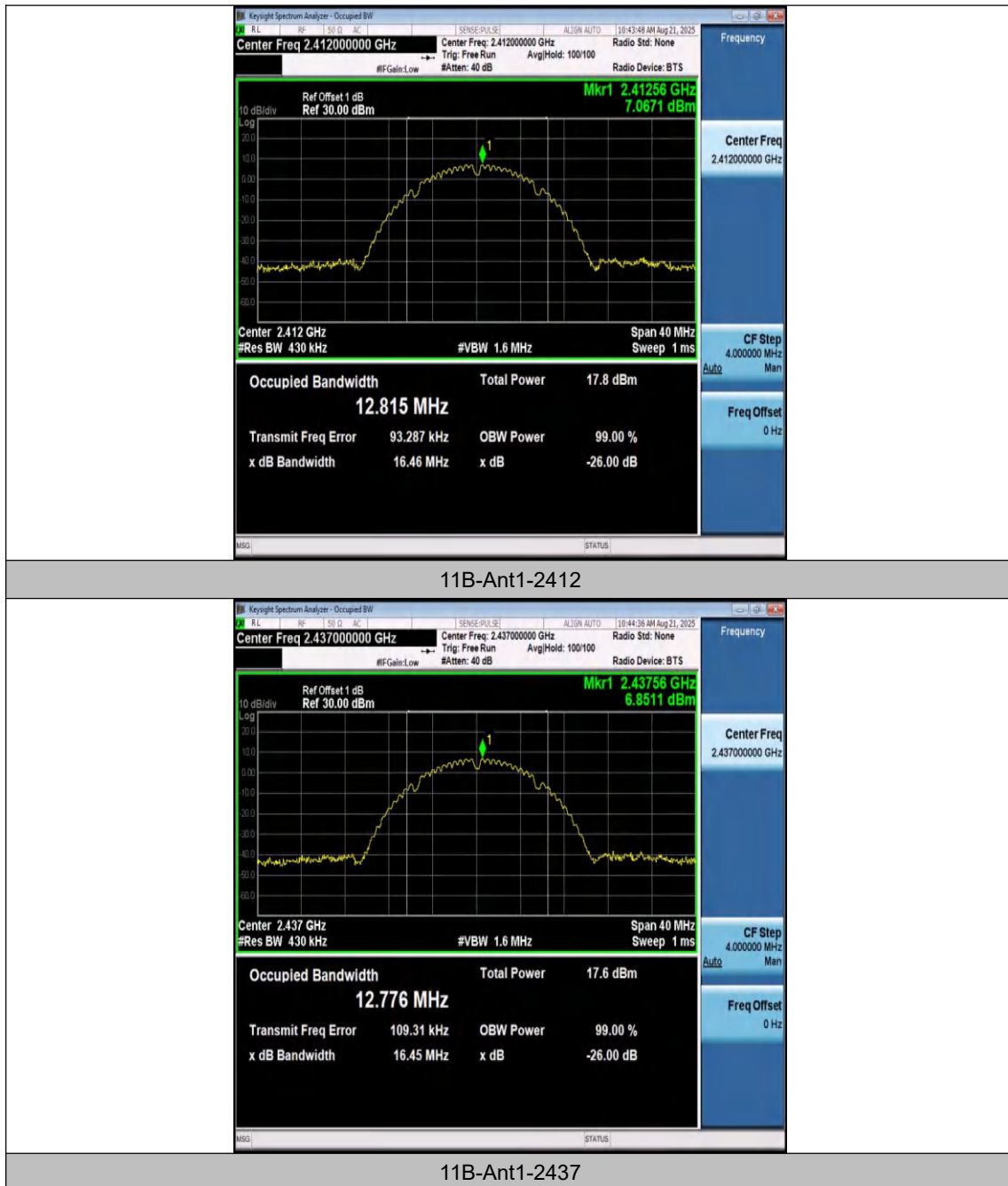
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.815	2405.6858	2418.5008	---	---
11B	Ant1	2437	12.776	2430.7213	2443.4973	---	---
11B	Ant1	2462	12.731	2455.7483	2468.4793	---	---
11G	Ant1	2412	16.853	2403.6638	2420.5168	---	---
11G	Ant1	2437	16.852	2428.6722	2445.5242	---	---
11G	Ant1	2462	16.852	2453.6847	2470.5367	---	---
11N20SISO	Ant1	2412	17.842	2403.1612	2421.0032	---	---
11N20SISO	Ant1	2437	17.792	2428.1603	2445.9523	---	---
11N20SISO	Ant1	2462	17.792	2453.1840	2470.9760	---	---

Test Graphs



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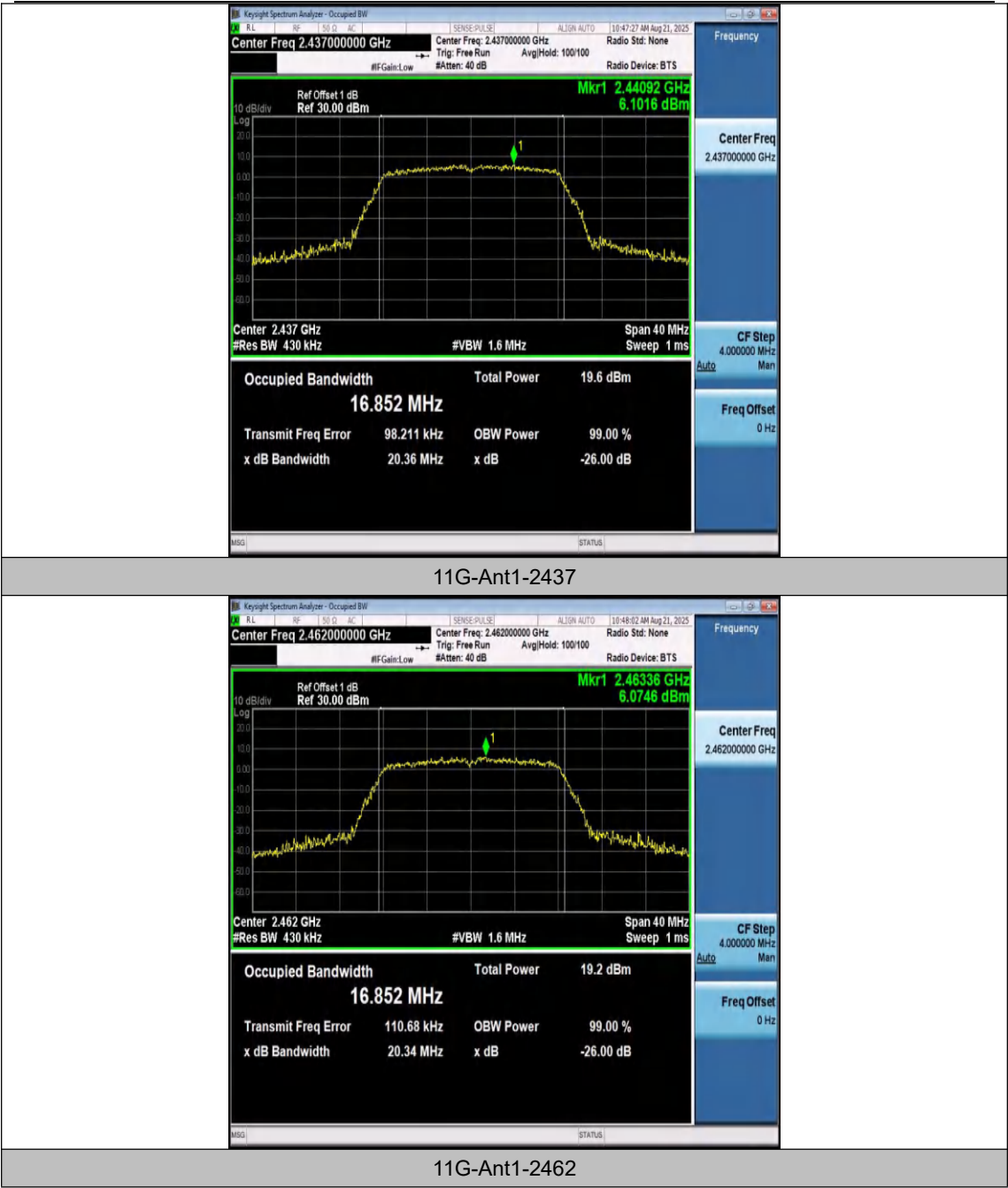
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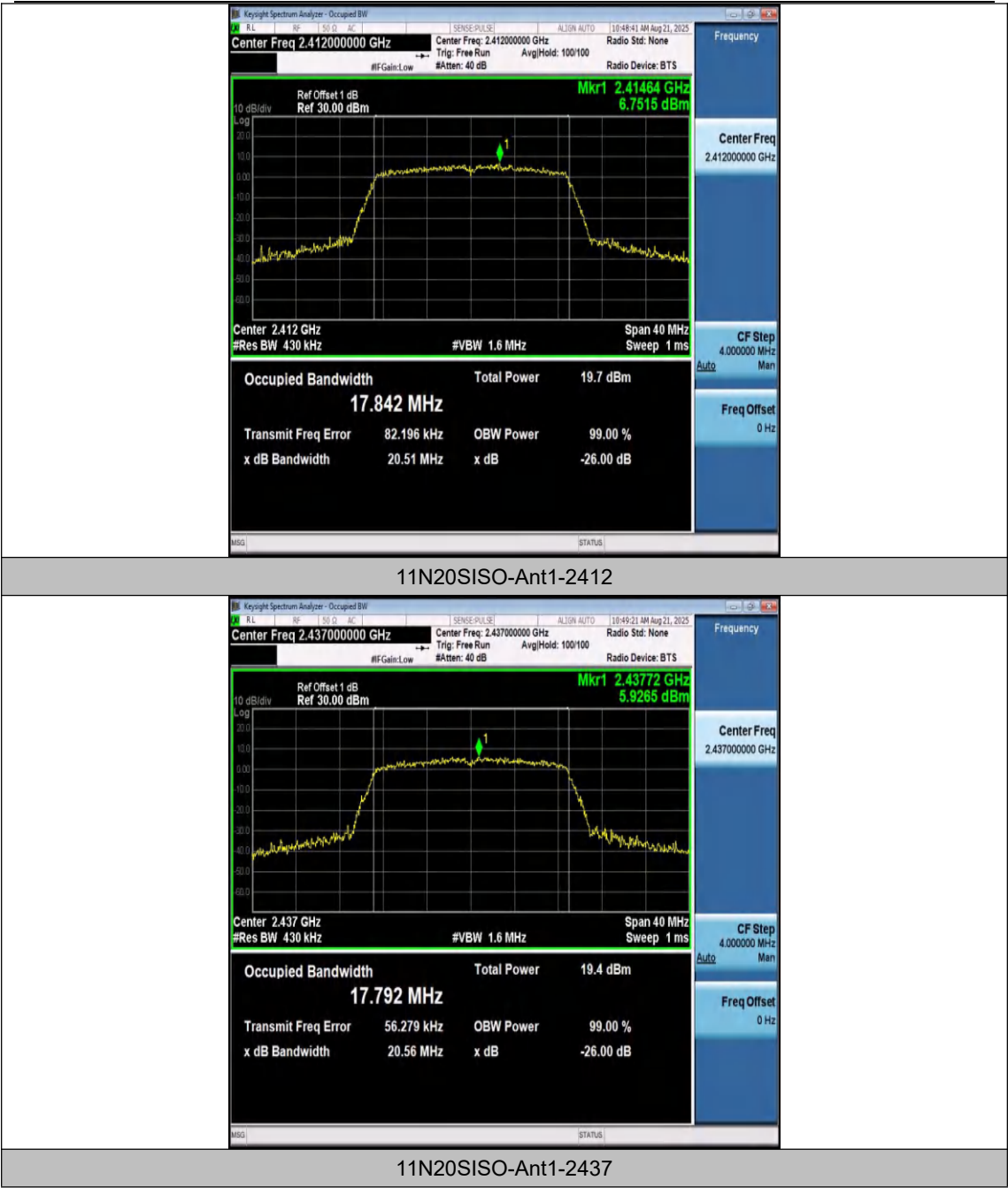
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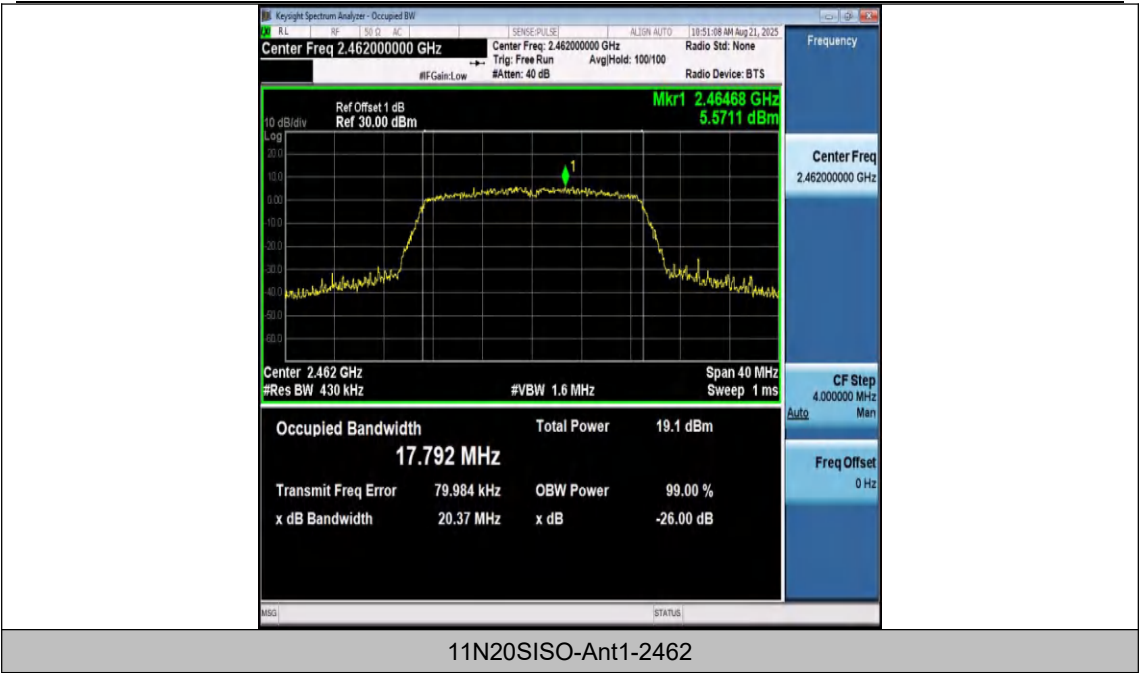
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Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.78	100.00	0.00	14.78	≤30.00	PASS
11B	Ant1	2437	14.63	100.00	0.00	14.63	≤30.00	PASS
11B	Ant1	2462	14.49	100.00	0.00	14.49	≤30.00	PASS
11G	Ant1	2412	13.61	100.00	0.00	13.61	≤30.00	PASS
11G	Ant1	2437	13.40	100.00	0.00	13.40	≤30.00	PASS
11G	Ant1	2462	13.07	100.00	0.00	13.07	≤30.00	PASS
11N20SISO	Ant1	2412	13.50	100.00	0.00	13.50	≤30.00	PASS
11N20SISO	Ant1	2437	13.29	100.00	0.00	13.29	≤30.00	PASS
11N20SISO	Ant1	2462	12.94	100.00	0.00	12.94	≤30.00	PASS

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

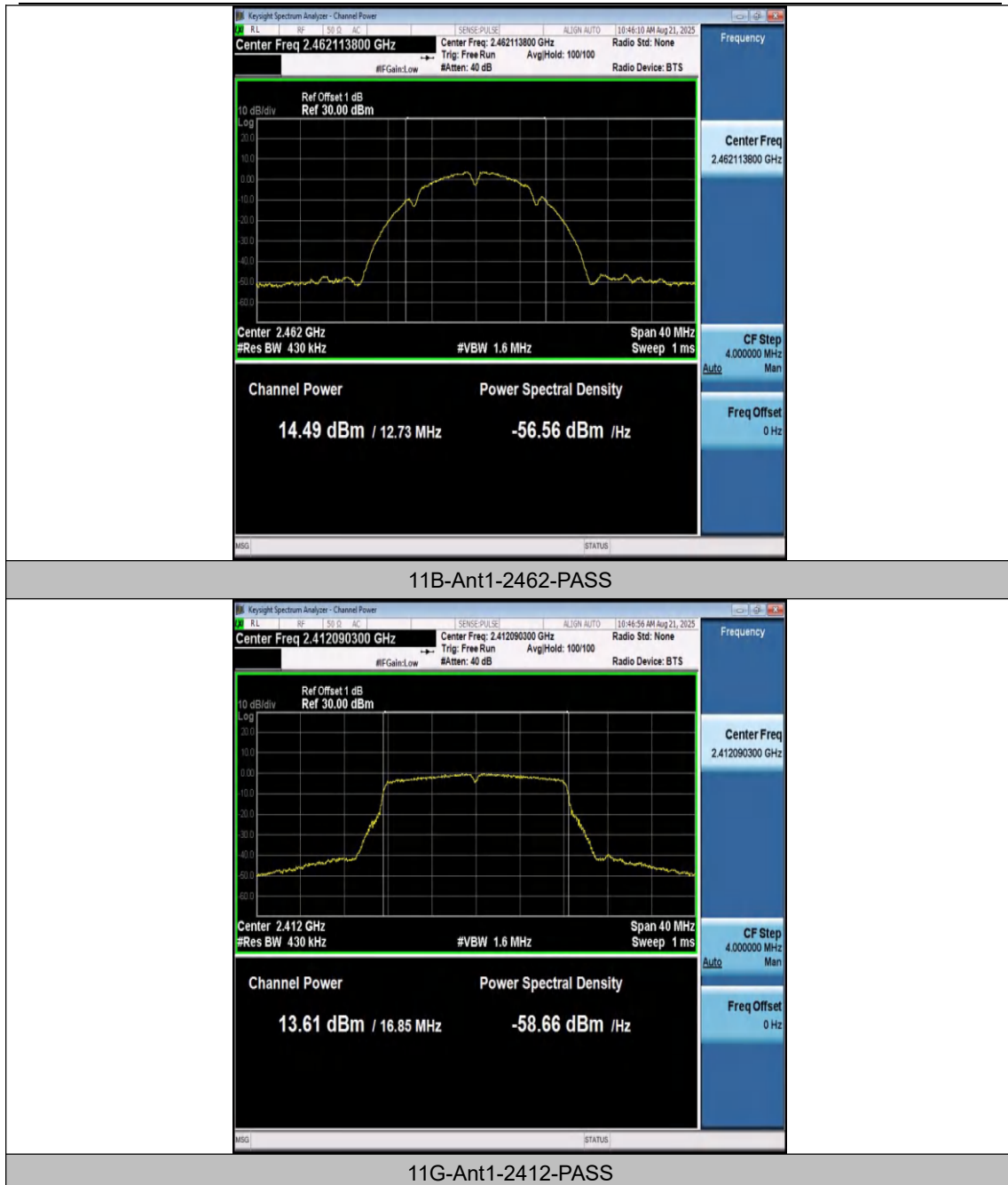
Test Graphs Average



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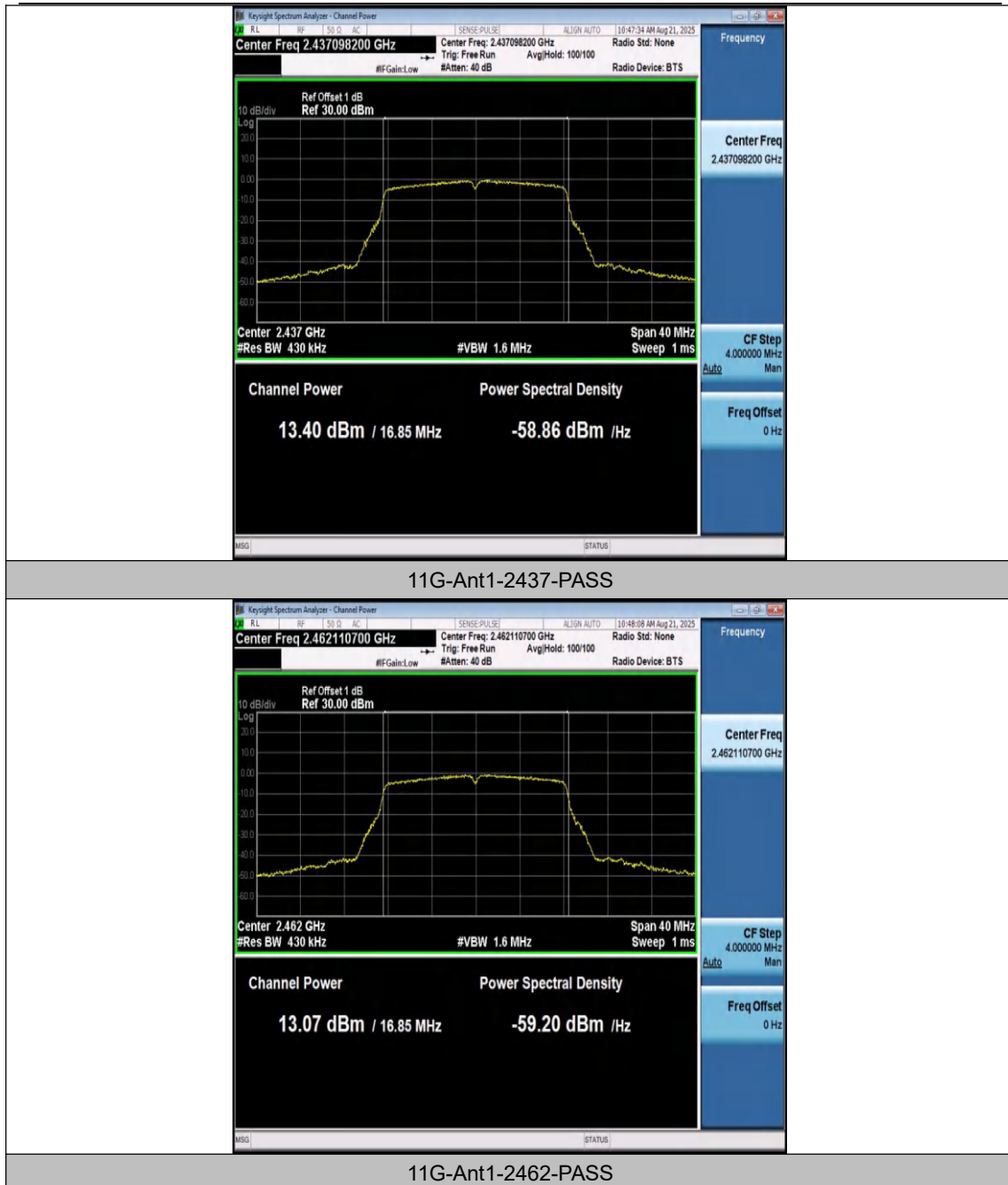
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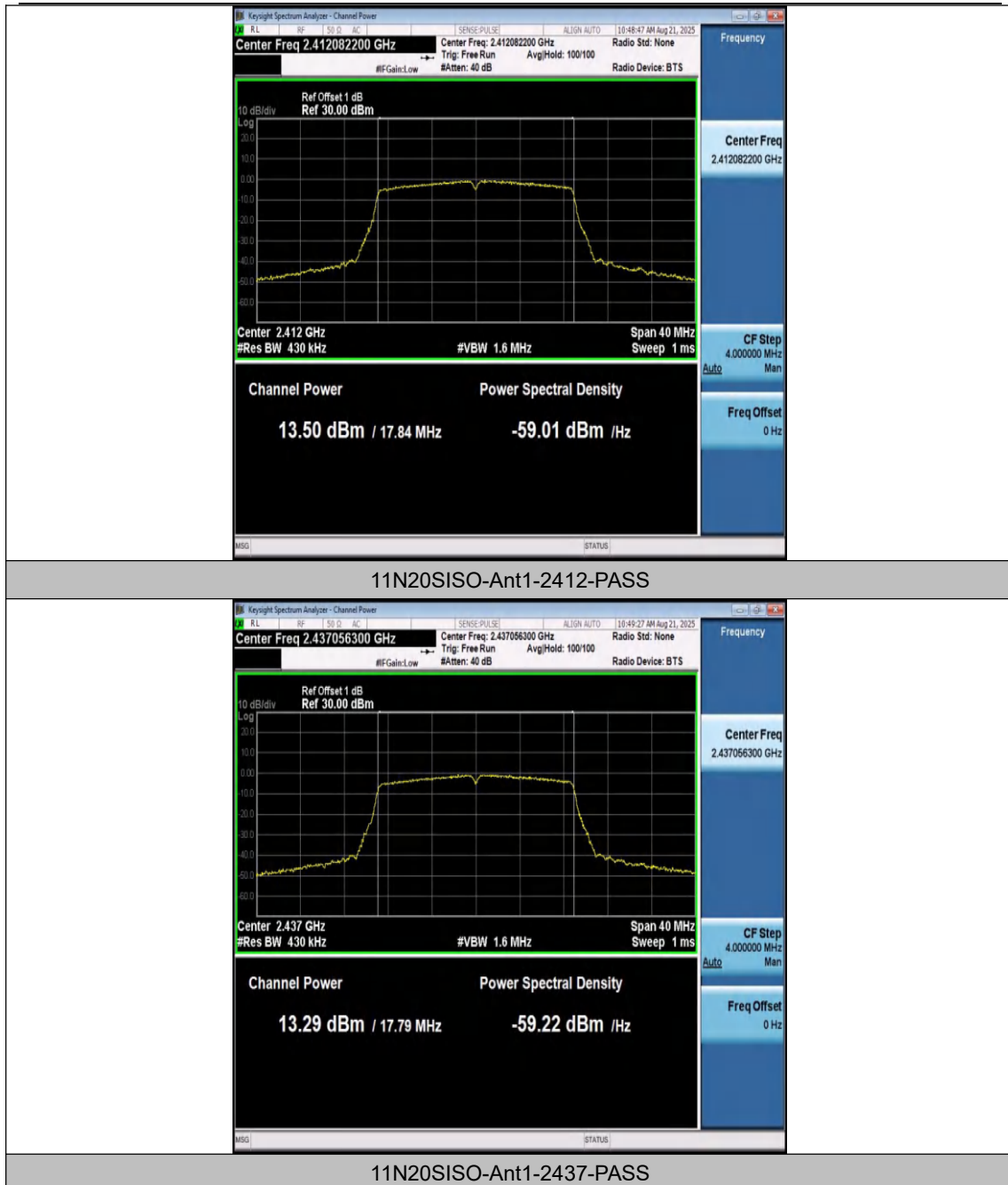
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Appendix D: Maximum power spectral density

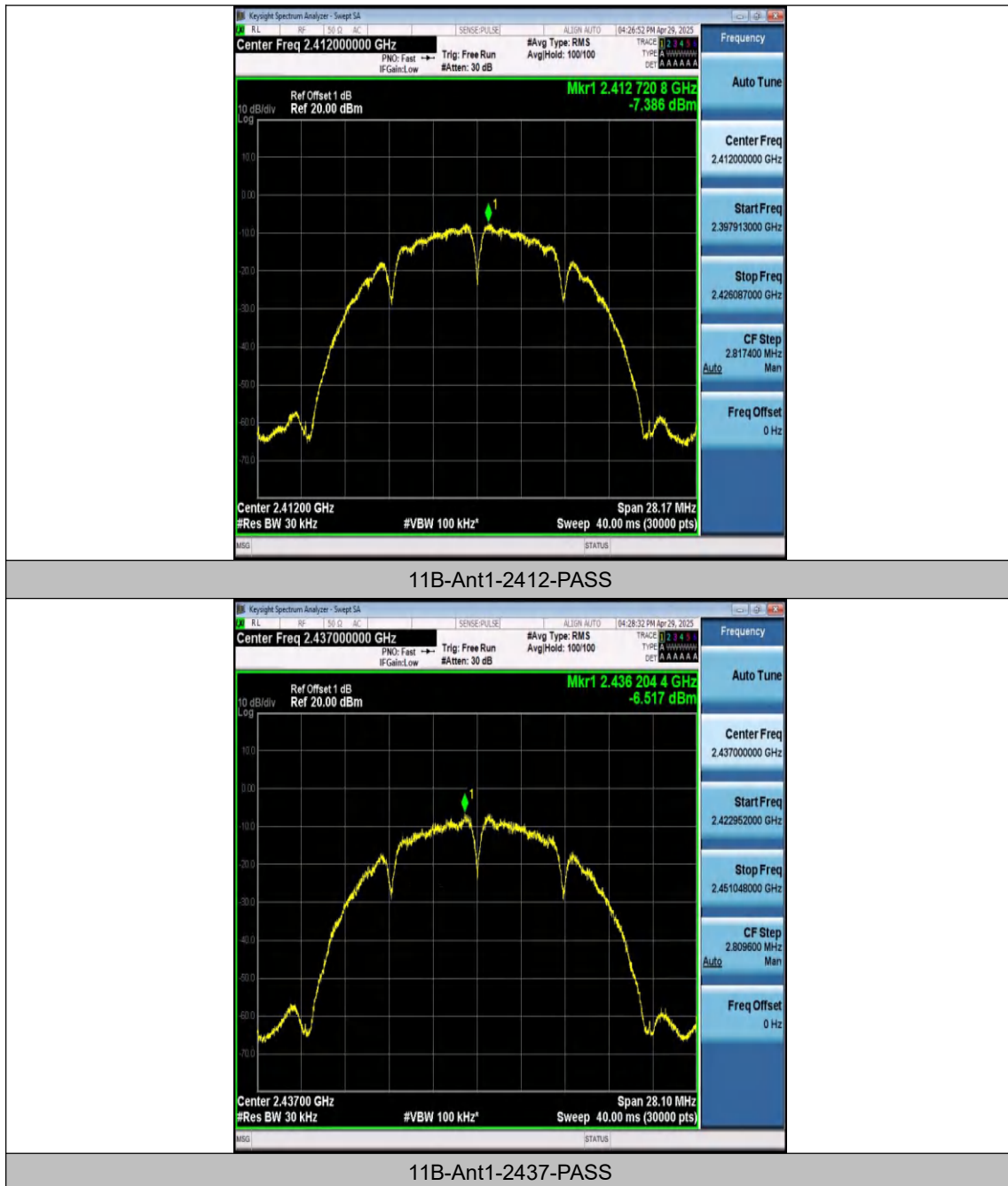
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.39	-17.39	≤8.00	PASS
11B	Ant1	2437	-6.52	-16.52	≤8.00	PASS
11B	Ant1	2462	-7.12	-17.12	≤8.00	PASS
11G	Ant1	2412	-10.20	-20.2	≤8.00	PASS
11G	Ant1	2437	-13.13	-23.13	≤8.00	PASS
11G	Ant1	2462	-13.14	-23.14	≤8.00	PASS
11N20SISO	Ant1	2412	-8.58	-18.58	≤8.00	PASS
11N20SISO	Ant1	2437	-13.32	-23.32	≤8.00	PASS
11N20SISO	Ant1	2462	-13.09	-23.09	≤8.00	PASS

Note:

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

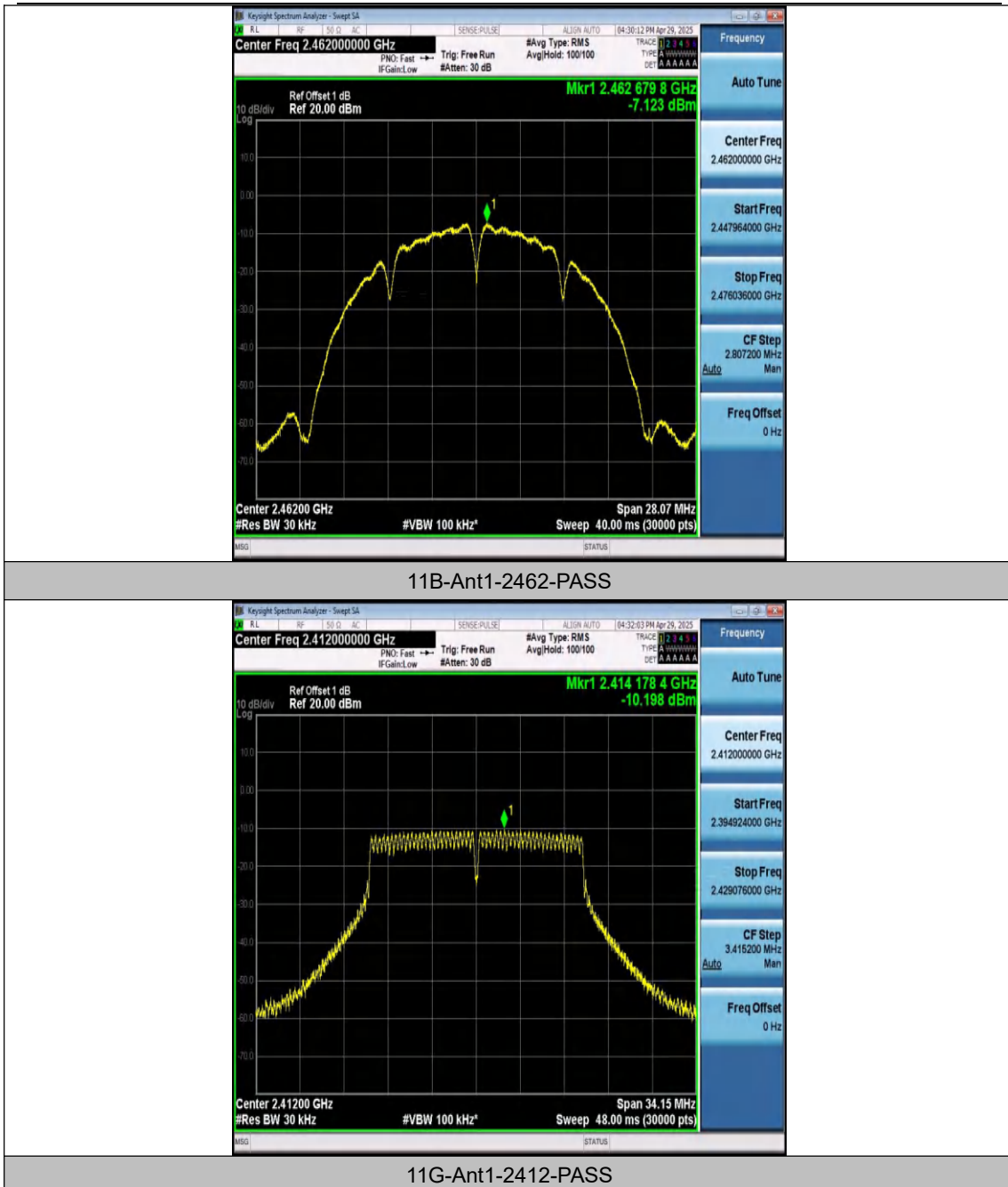
Test Graphs



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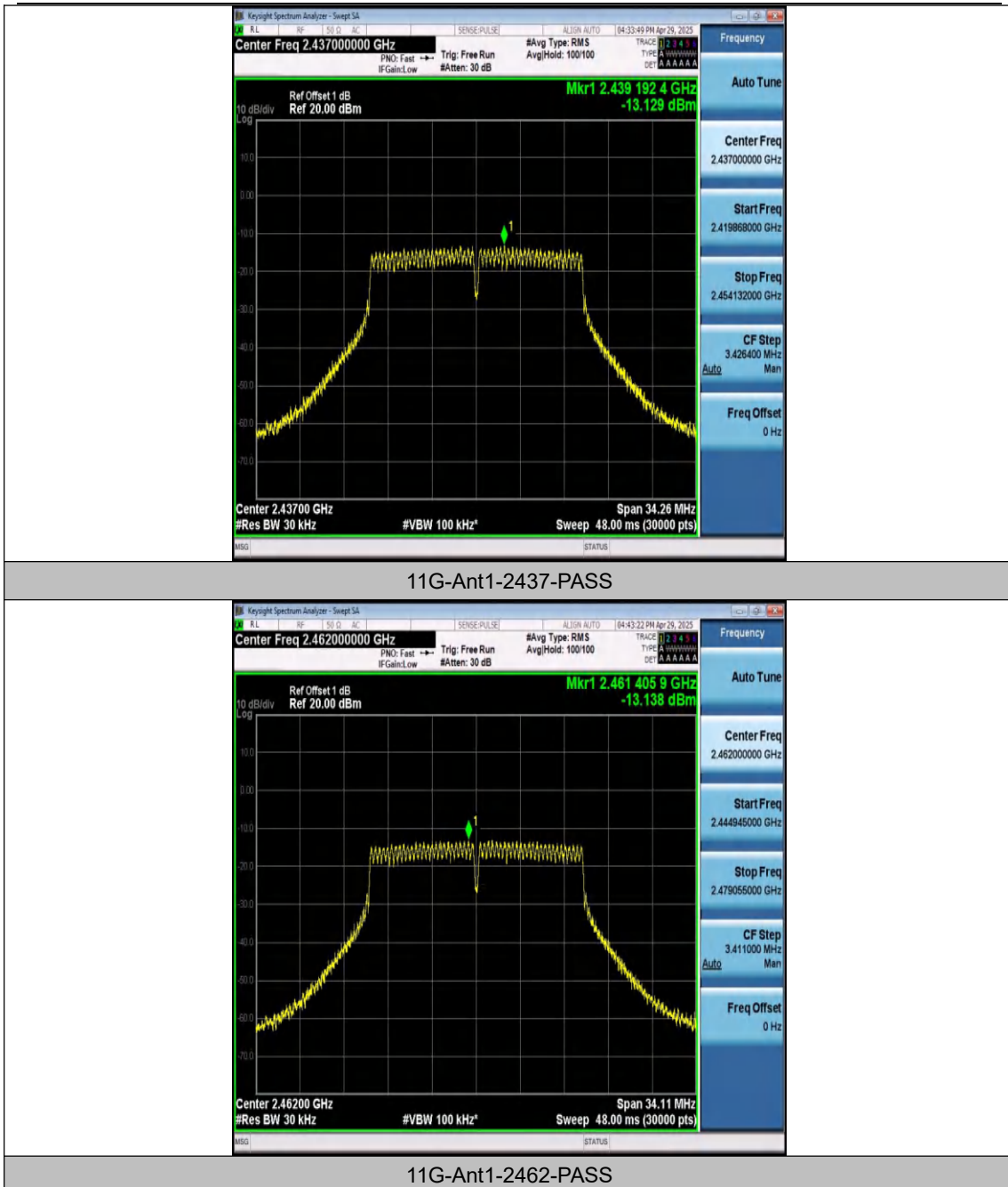
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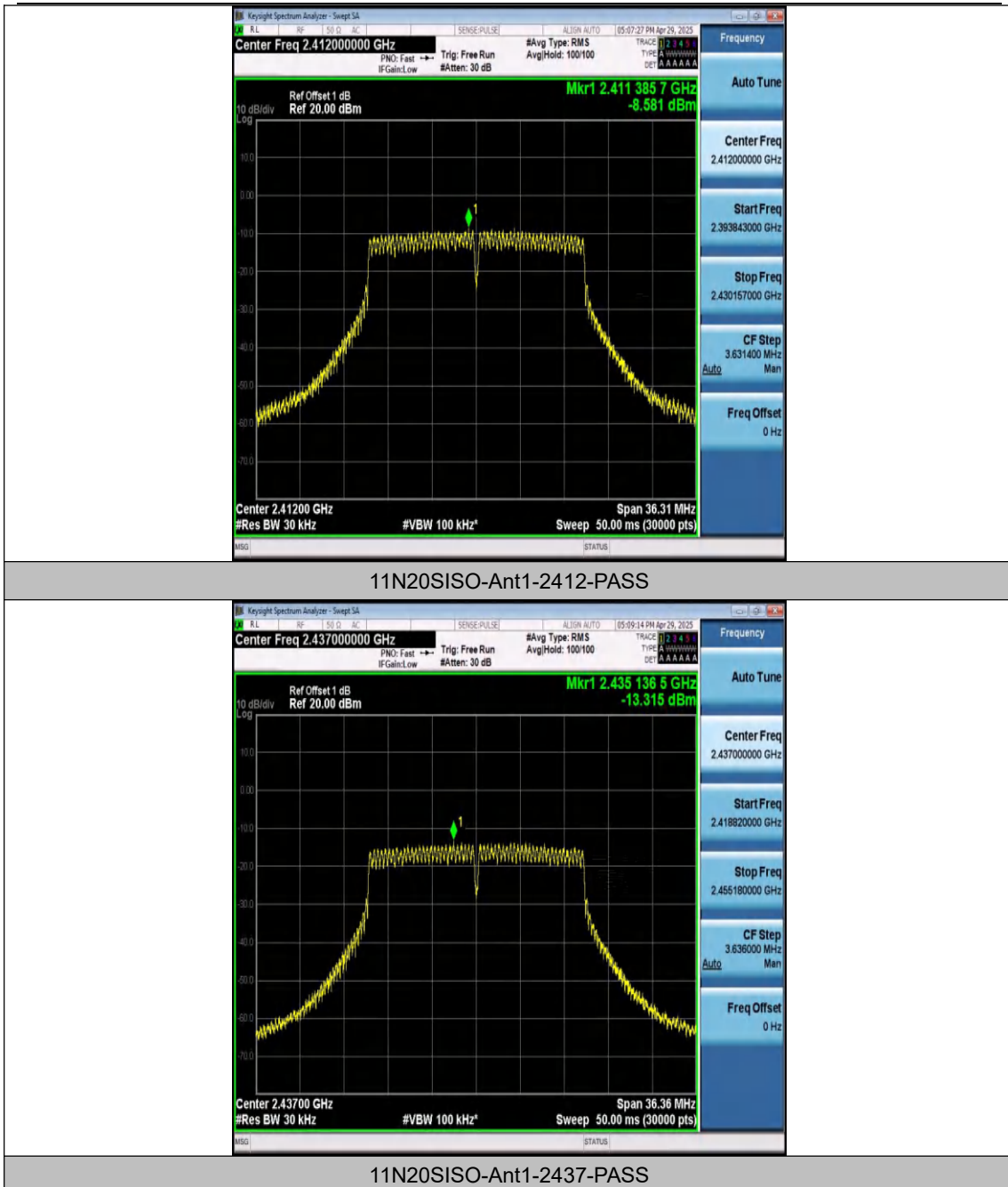
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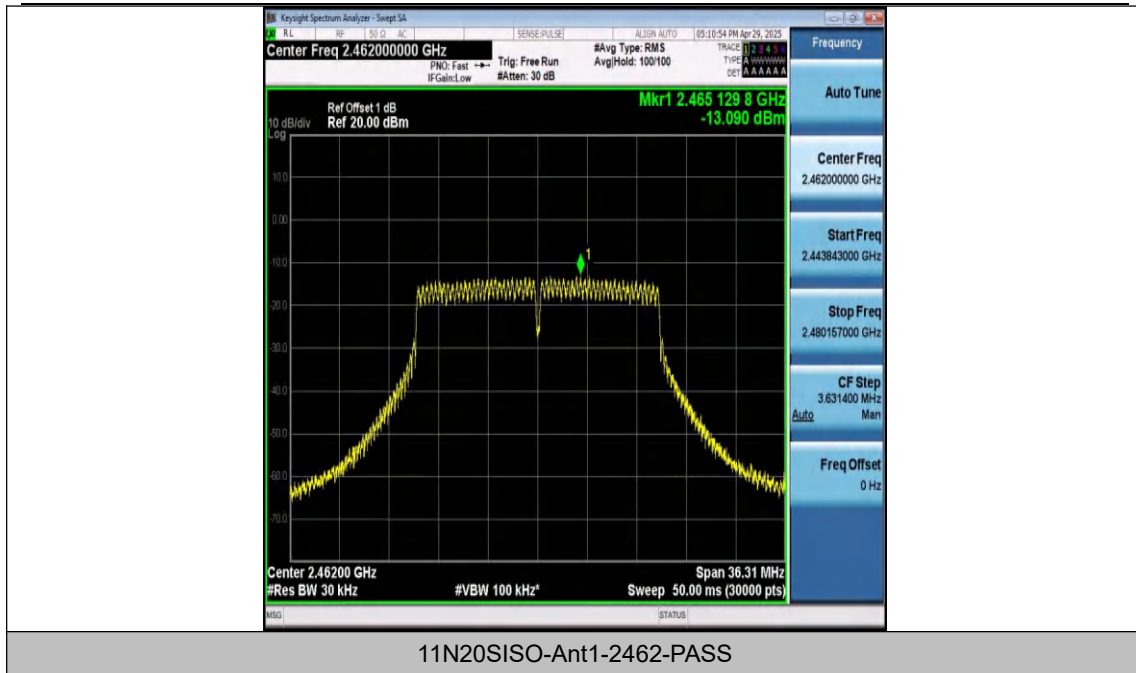
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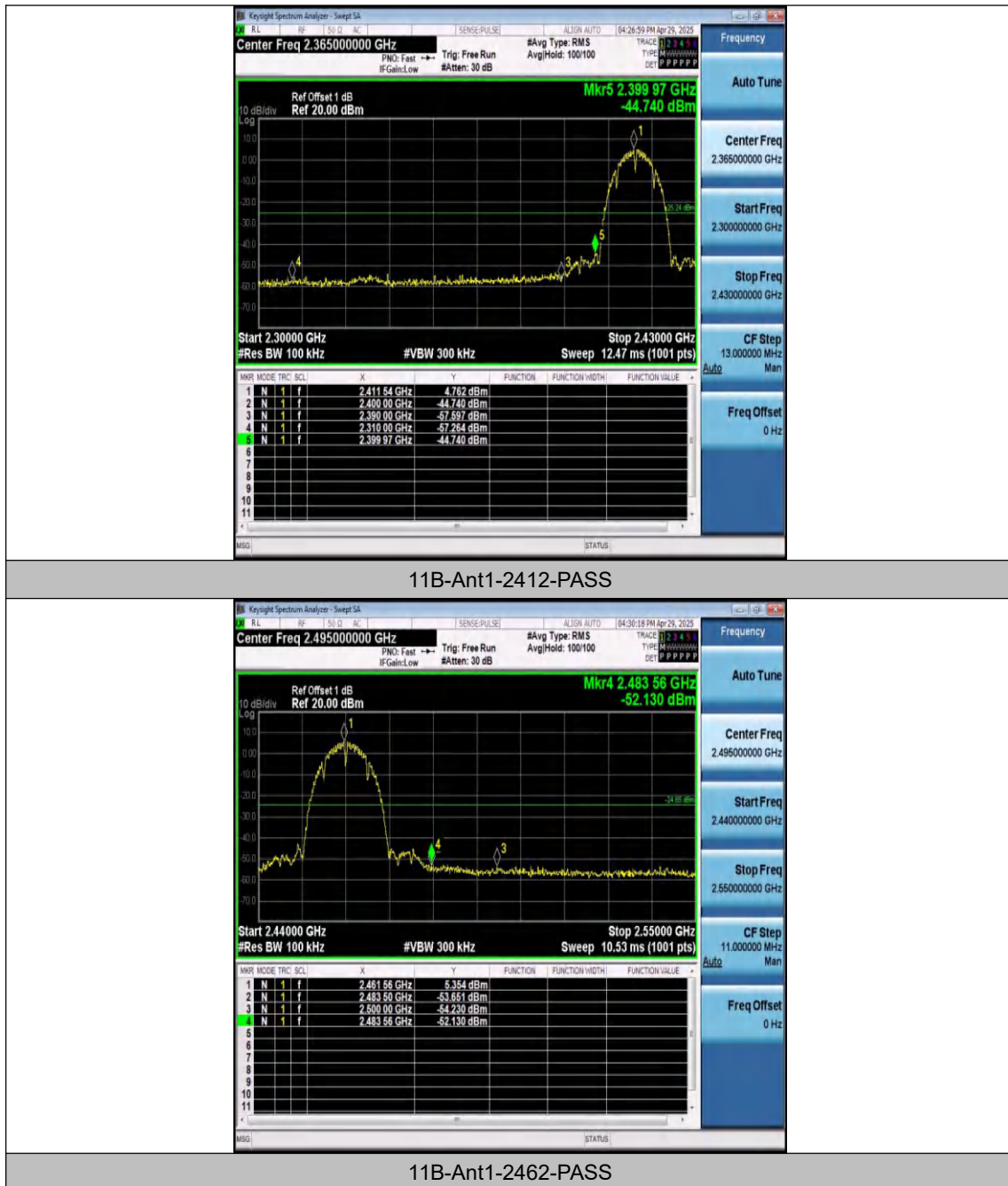
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.76	-44.74	≤-25.24	PASS
11B	Ant1	High	2462	5.35	-52.13	≤-24.65	PASS
11G	Ant1	Low	2412	0.00	-32.52	≤-30	PASS
11G	Ant1	High	2462	-2.72	-52.09	≤-32.72	PASS
11N20SISO	Ant1	Low	2412	1.97	-30.11	≤-28.03	PASS
11N20SISO	Ant1	High	2462	-2.95	-50.84	≤-32.95	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.

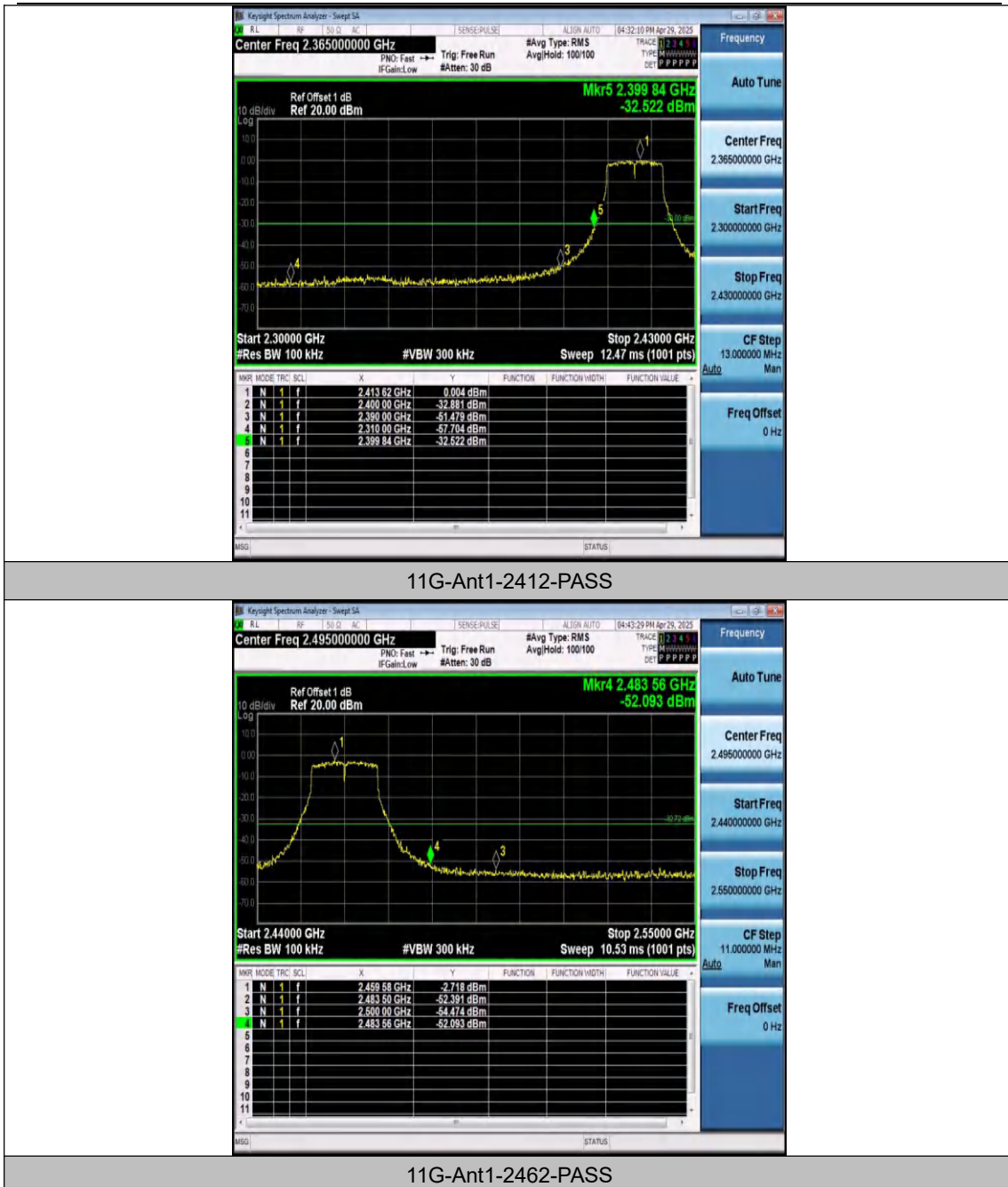
Test Graphs

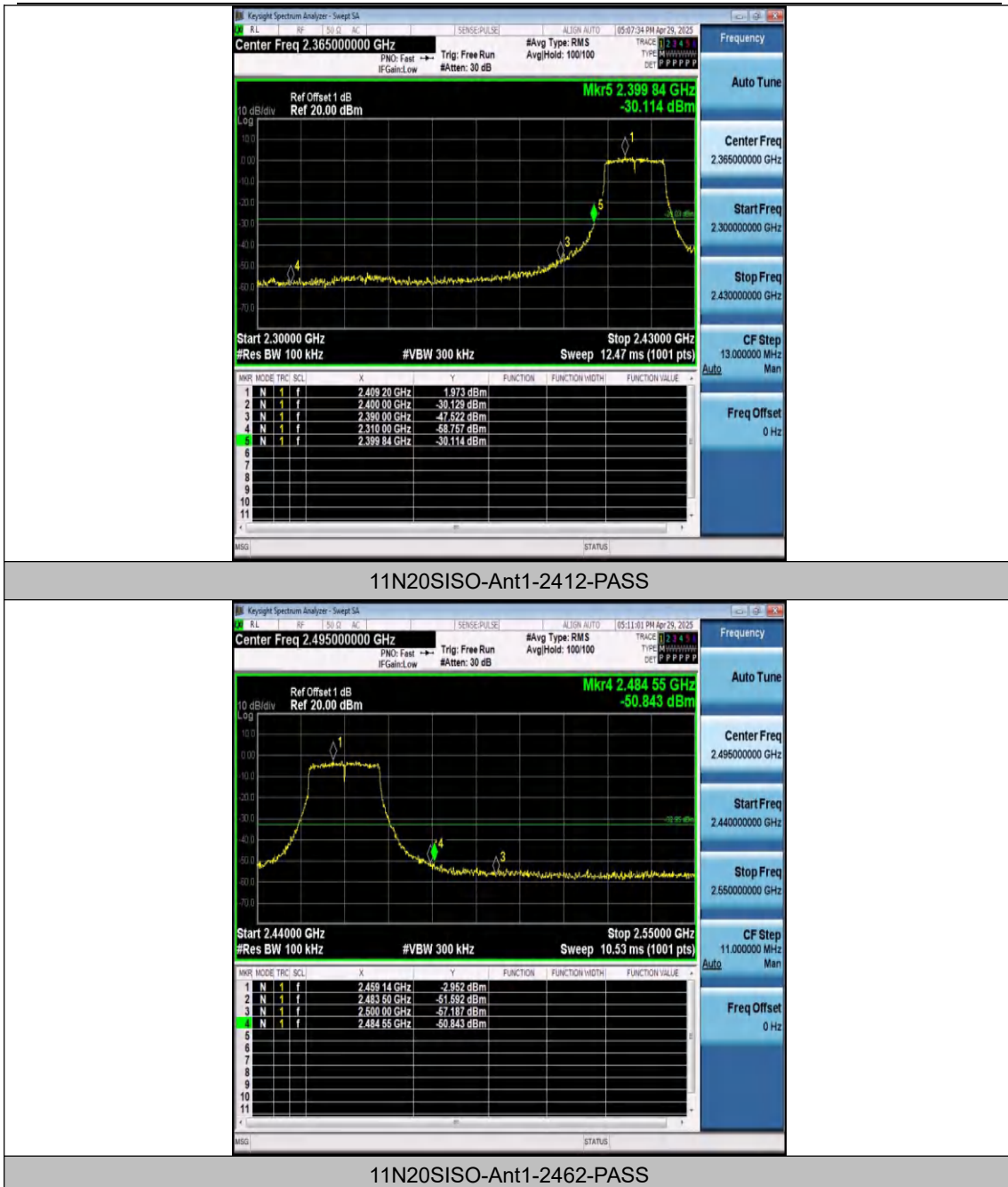


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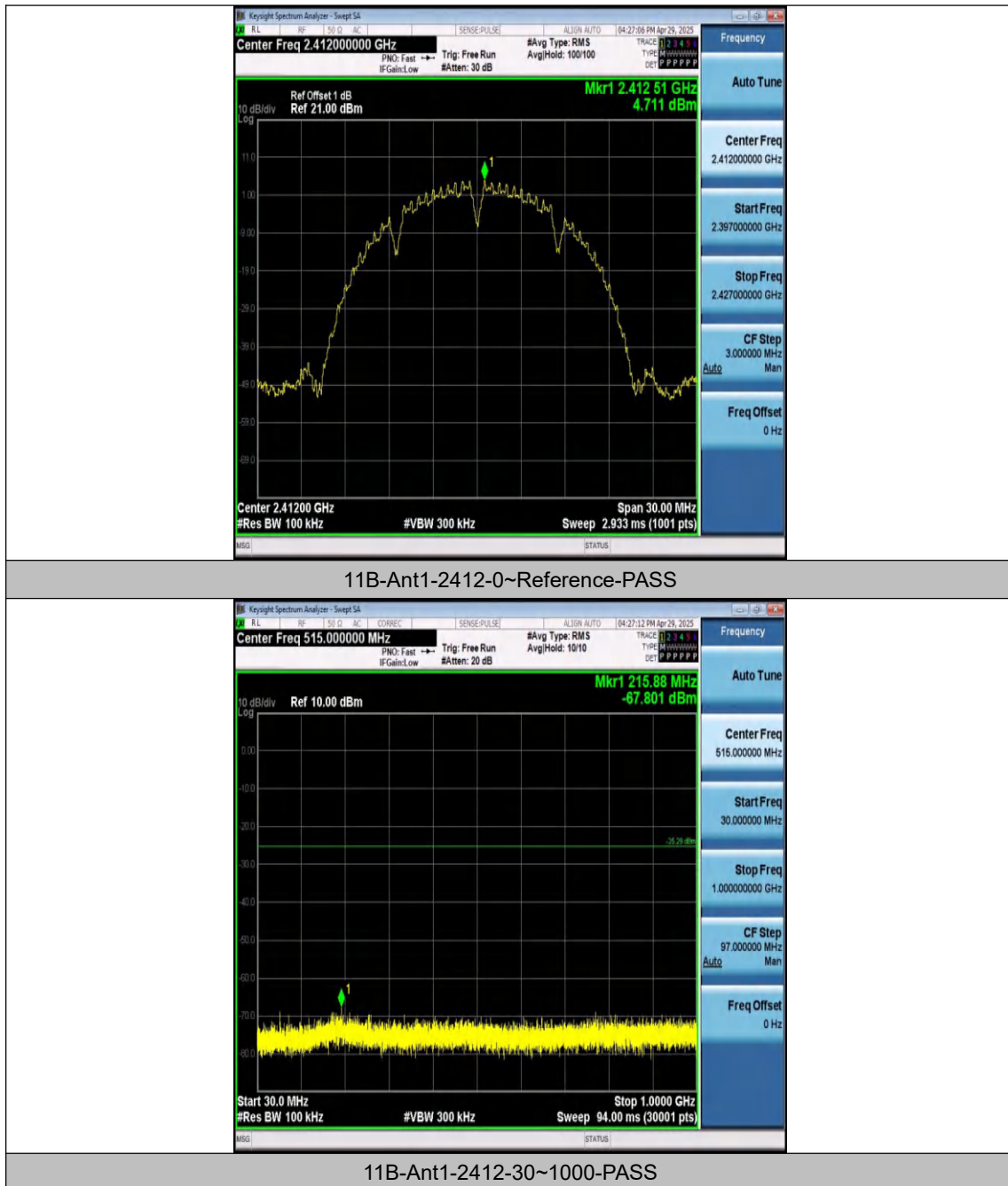
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.71	4.71	---	PASS
11B	Ant1	2412	30~1000	4.71	-67.8	≤-25.29	PASS
11B	Ant1	2412	1000~26500	4.71	-53.62	≤-25.29	PASS
11B	Ant1	2437	0~Reference	4.93	4.93	---	PASS
11B	Ant1	2437	30~1000	4.93	-68.06	≤-25.07	PASS
11B	Ant1	2437	1000~26500	4.93	-53.08	≤-25.07	PASS
11B	Ant1	2462	0~Reference	5.29	5.29	---	PASS
11B	Ant1	2462	30~1000	5.29	-67.97	≤-24.71	PASS
11B	Ant1	2462	1000~26500	5.29	-53.03	≤-24.71	PASS
11G	Ant1	2412	0~Reference	-0.08	-0.08	---	PASS
11G	Ant1	2412	30~1000	-0.08	-67.33	≤-30.08	PASS
11G	Ant1	2412	1000~26500	-0.08	-52.32	≤-30.08	PASS
11G	Ant1	2437	0~Reference	-3.47	-3.47	---	PASS
11G	Ant1	2437	30~1000	-3.47	-67.5	≤-33.47	PASS
11G	Ant1	2437	1000~26500	-3.47	-53.18	≤-33.47	PASS
11G	Ant1	2462	0~Reference	-2.93	-2.93	---	PASS
11G	Ant1	2462	30~1000	-2.93	-65.28	≤-32.93	PASS
11G	Ant1	2462	1000~26500	-2.93	-53.71	≤-32.93	PASS
11N20SISO	Ant1	2412	0~Reference	1.12	1.12	---	PASS
11N20SISO	Ant1	2412	30~1000	1.12	-67.17	≤-28.88	PASS
11N20SISO	Ant1	2412	1000~26500	1.12	-53.48	≤-28.88	PASS
11N20SISO	Ant1	2437	0~Reference	-3.52	-3.52	---	PASS
11N20SISO	Ant1	2437	30~1000	-3.52	-66.33	≤-33.52	PASS
11N20SISO	Ant1	2437	1000~26500	-3.52	-52.22	≤-33.52	PASS
11N20SISO	Ant1	2462	0~Reference	-2.68	-2.68	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.68	-66.5	≤-32.68	PASS
11N20SISO	Ant1	2462	1000~26500	-2.68	-52.92	≤-32.68	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.

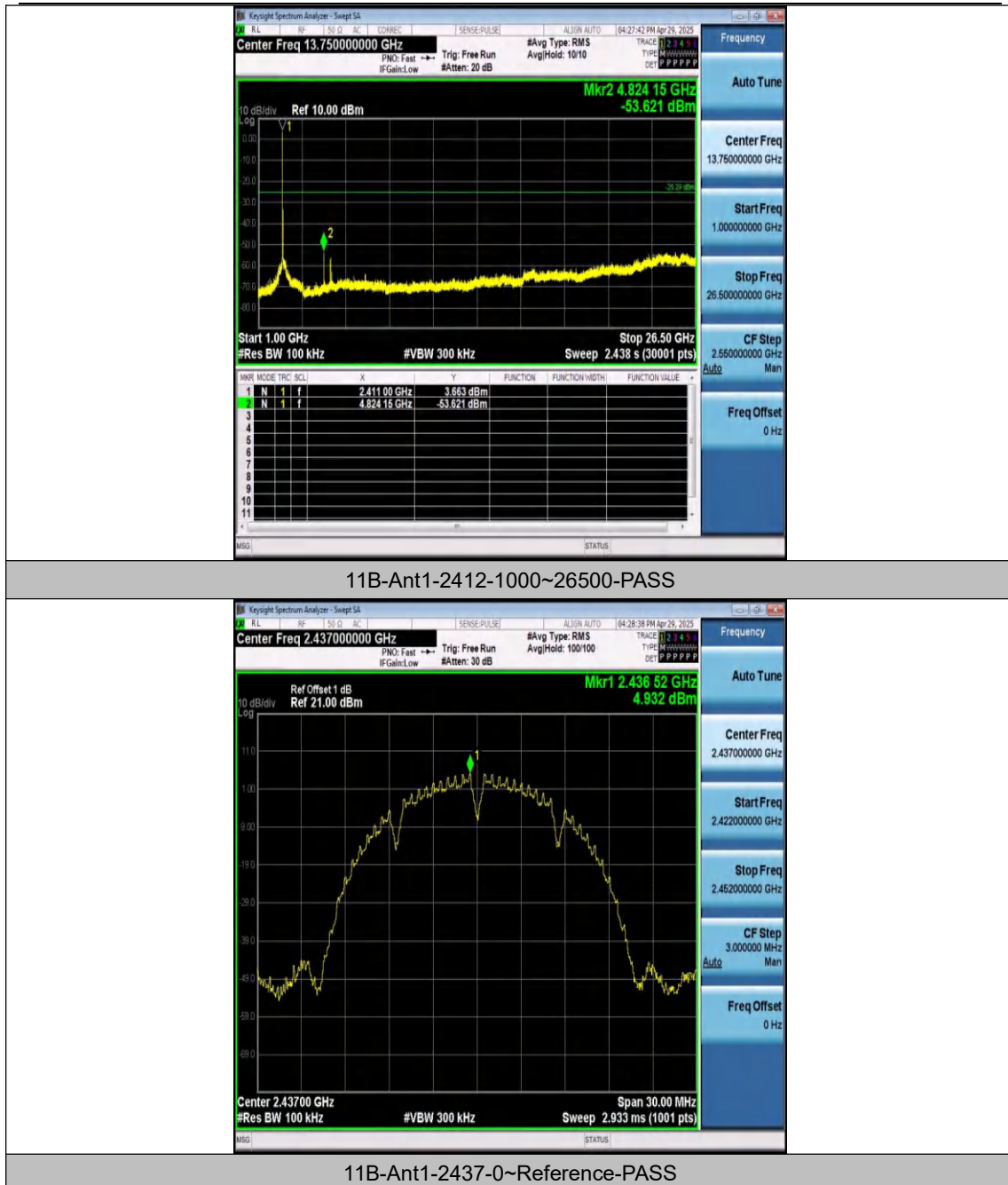
Test Graphs



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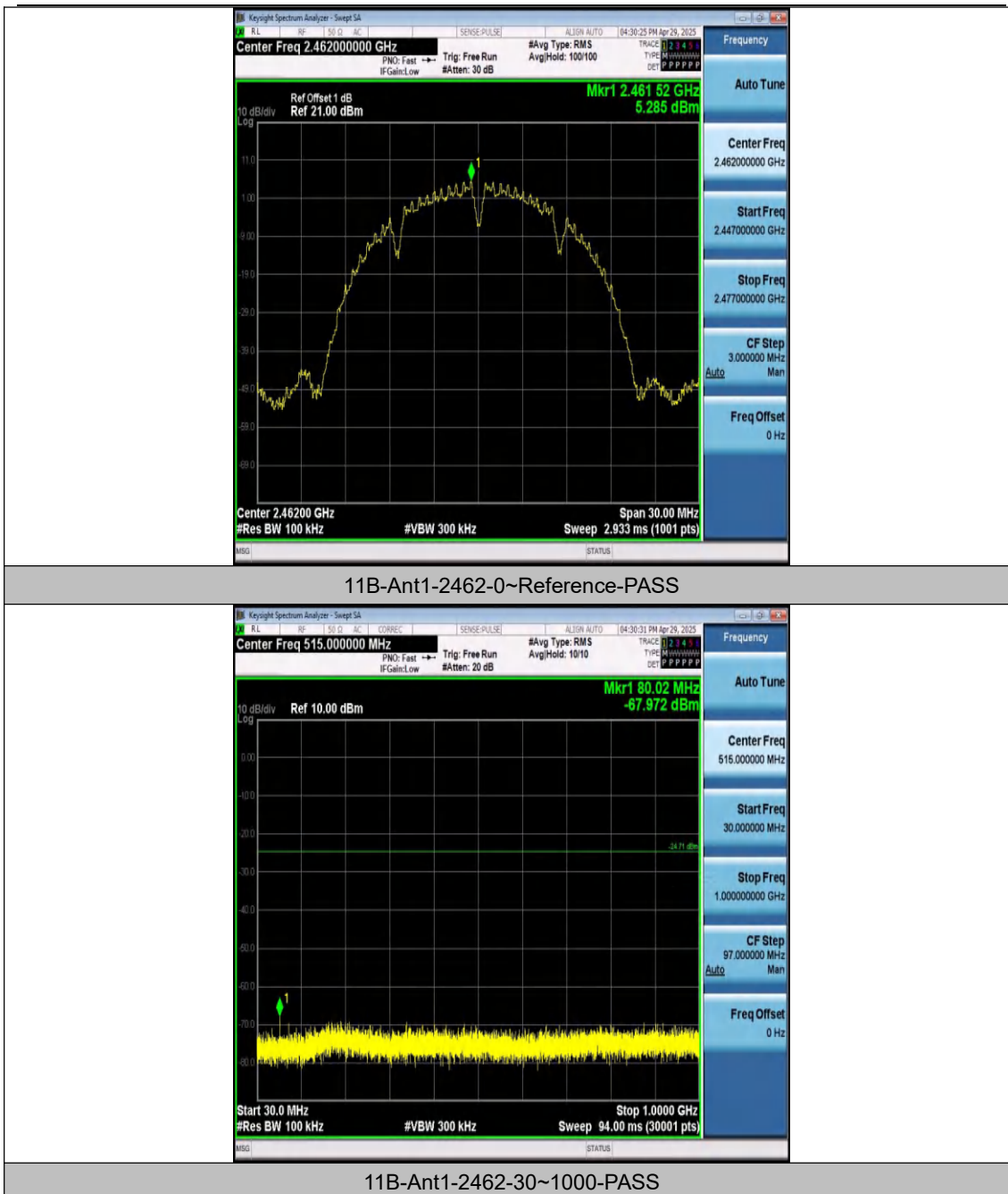
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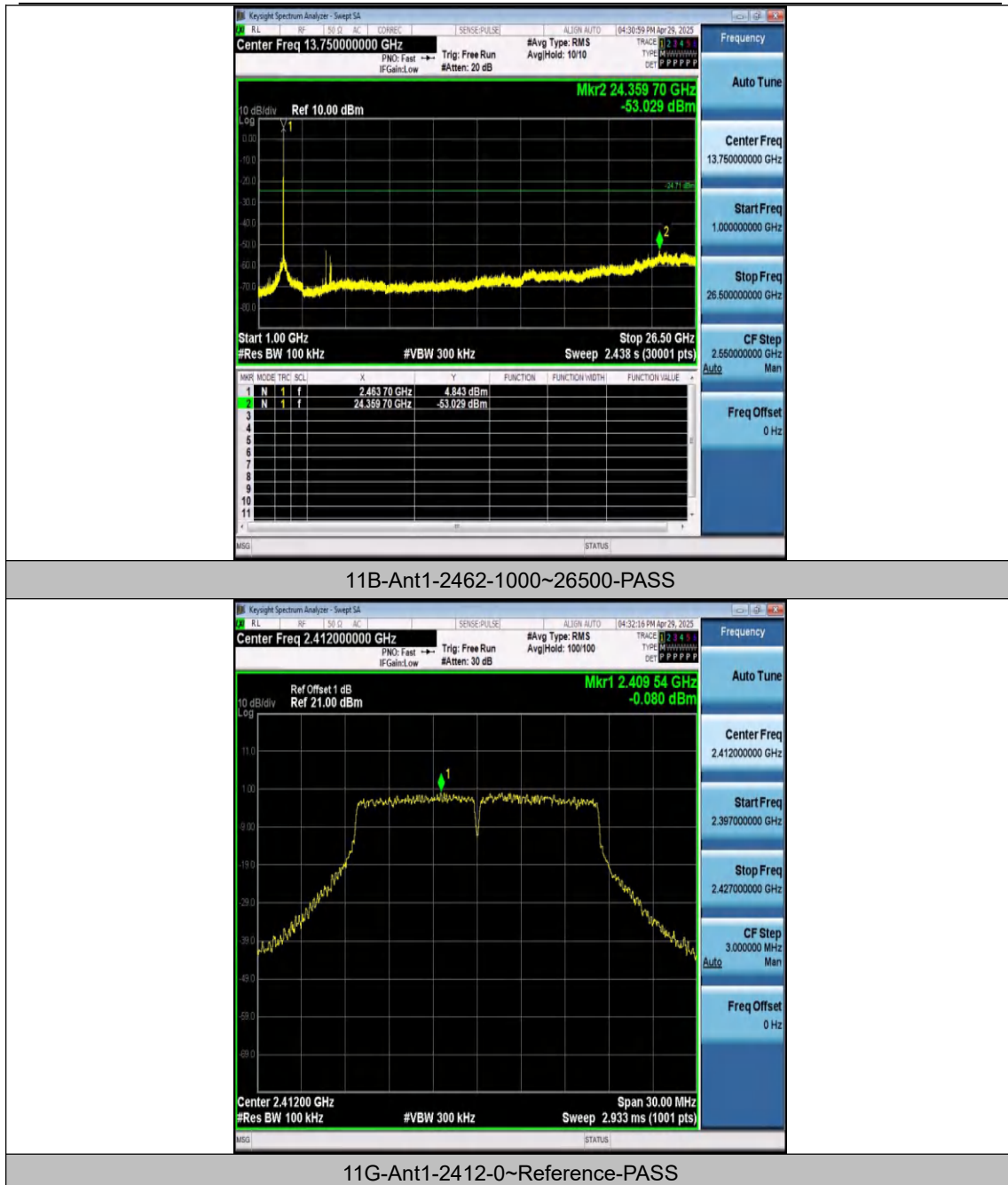
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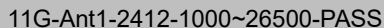
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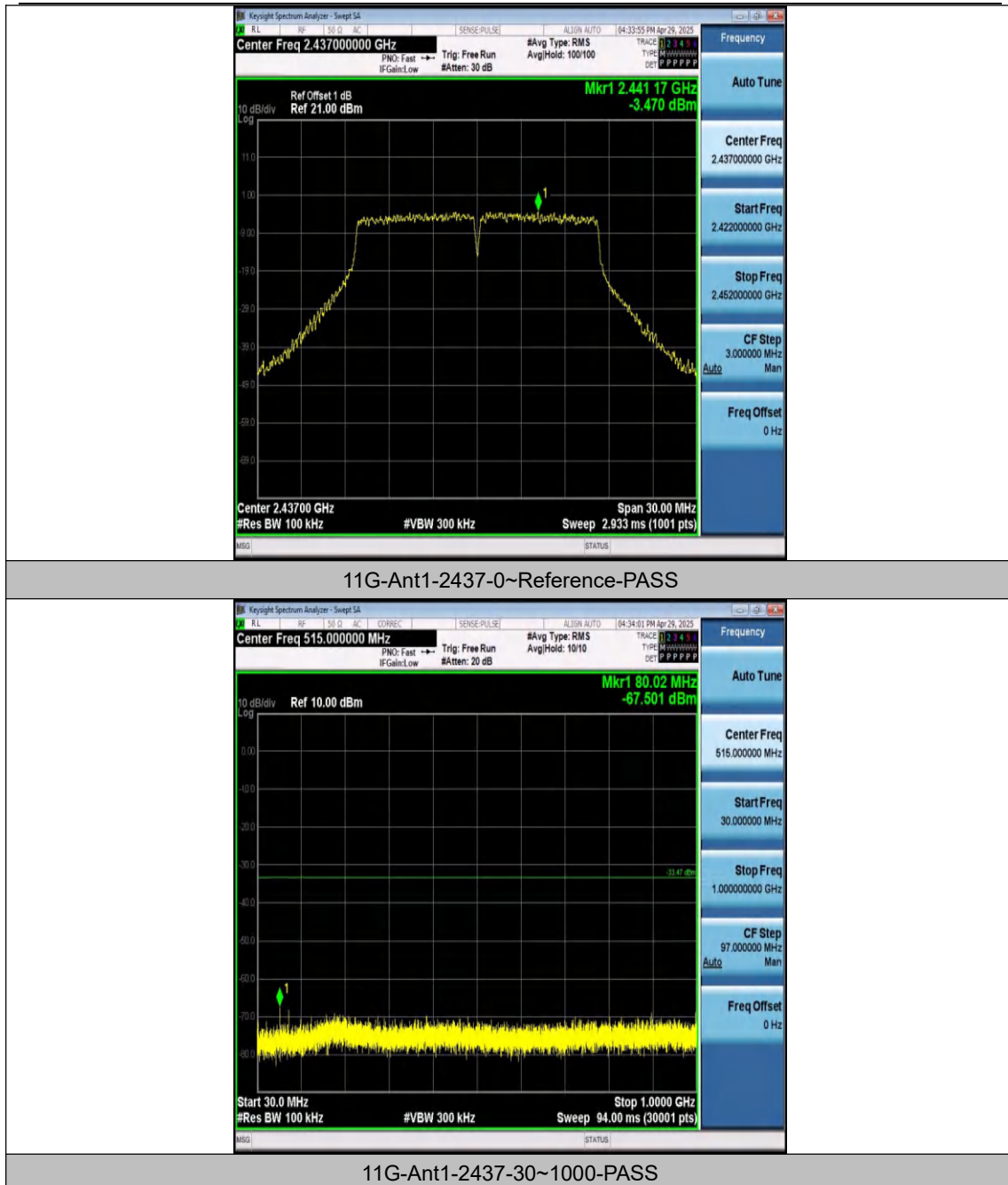
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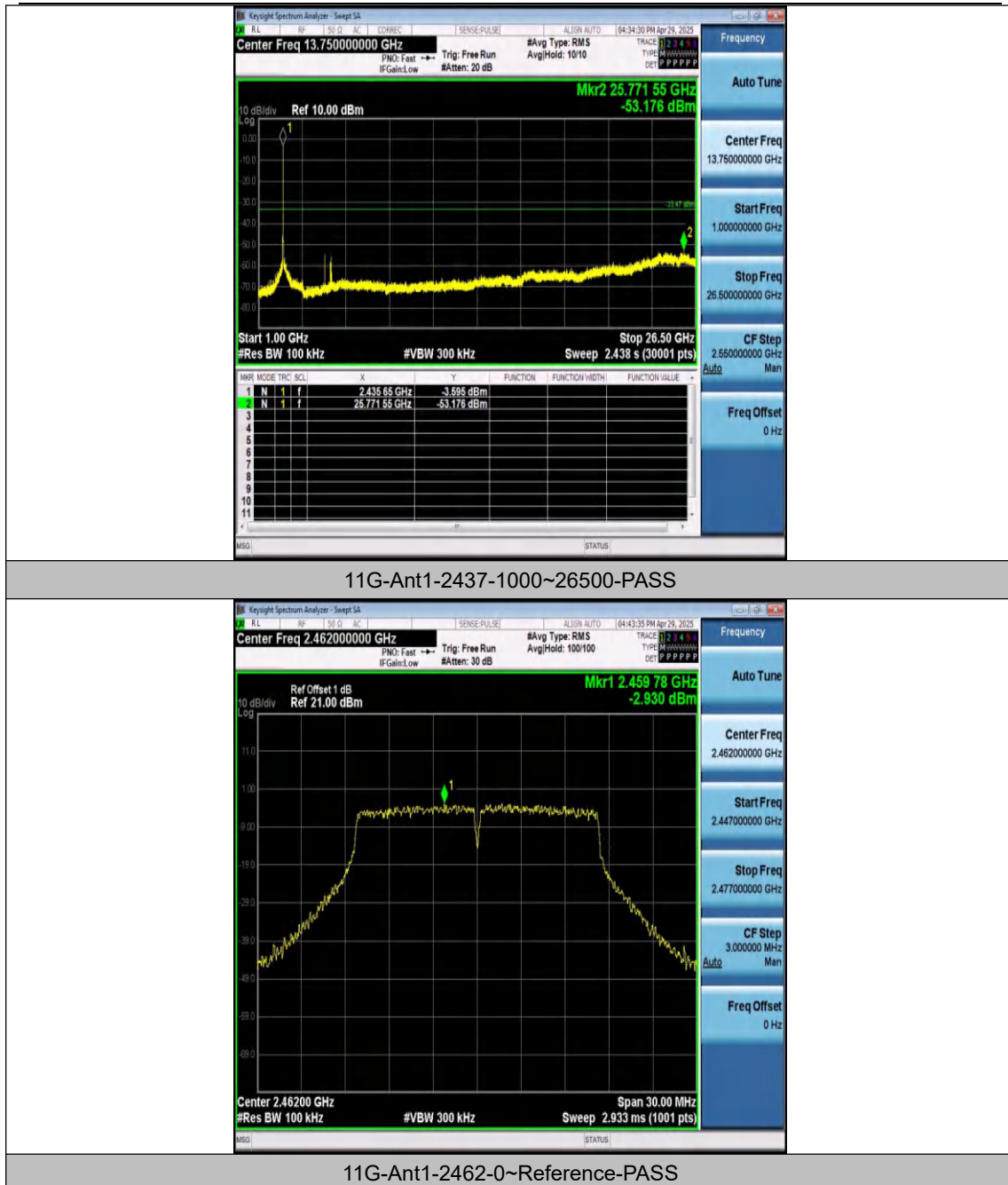
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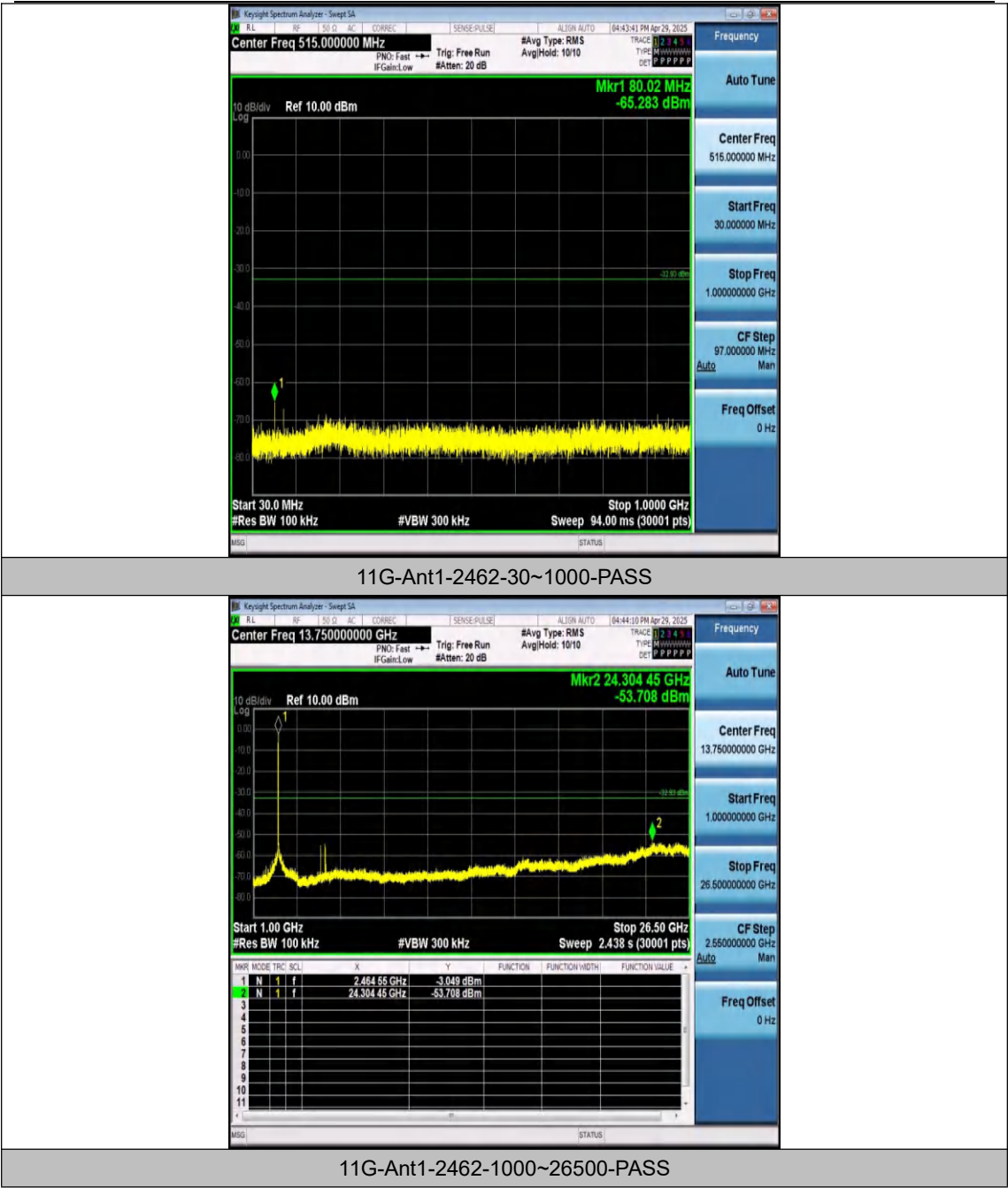
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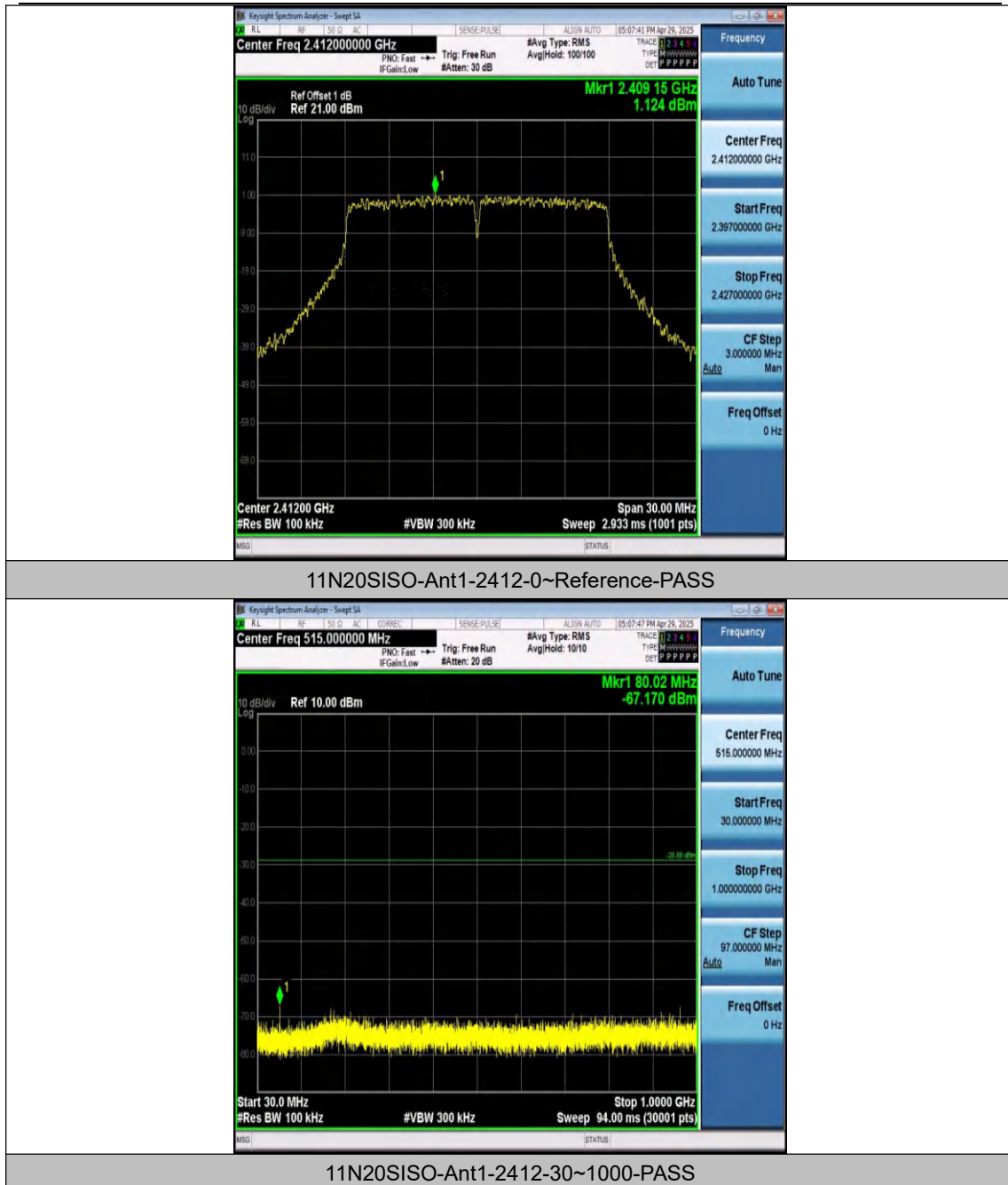


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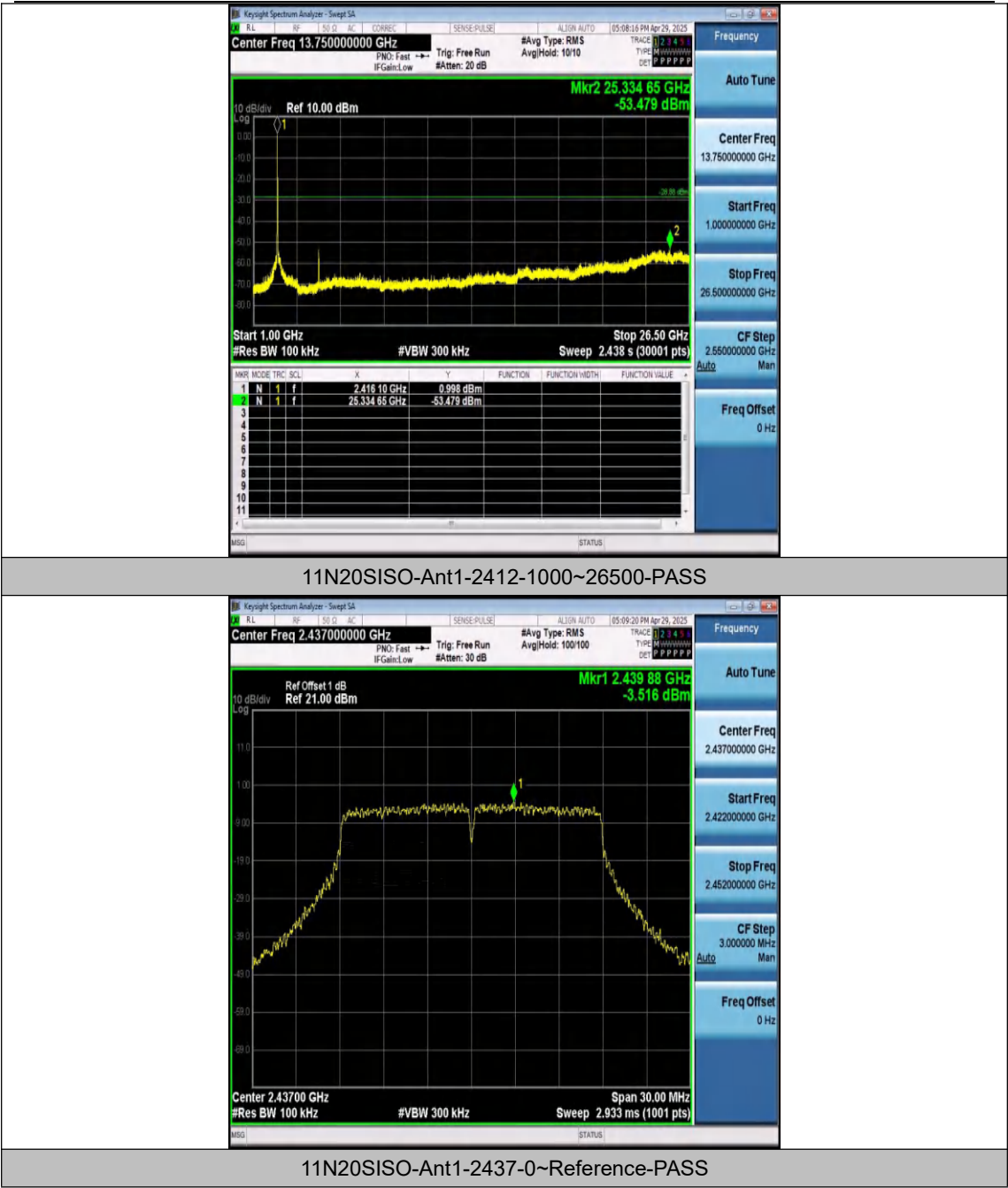




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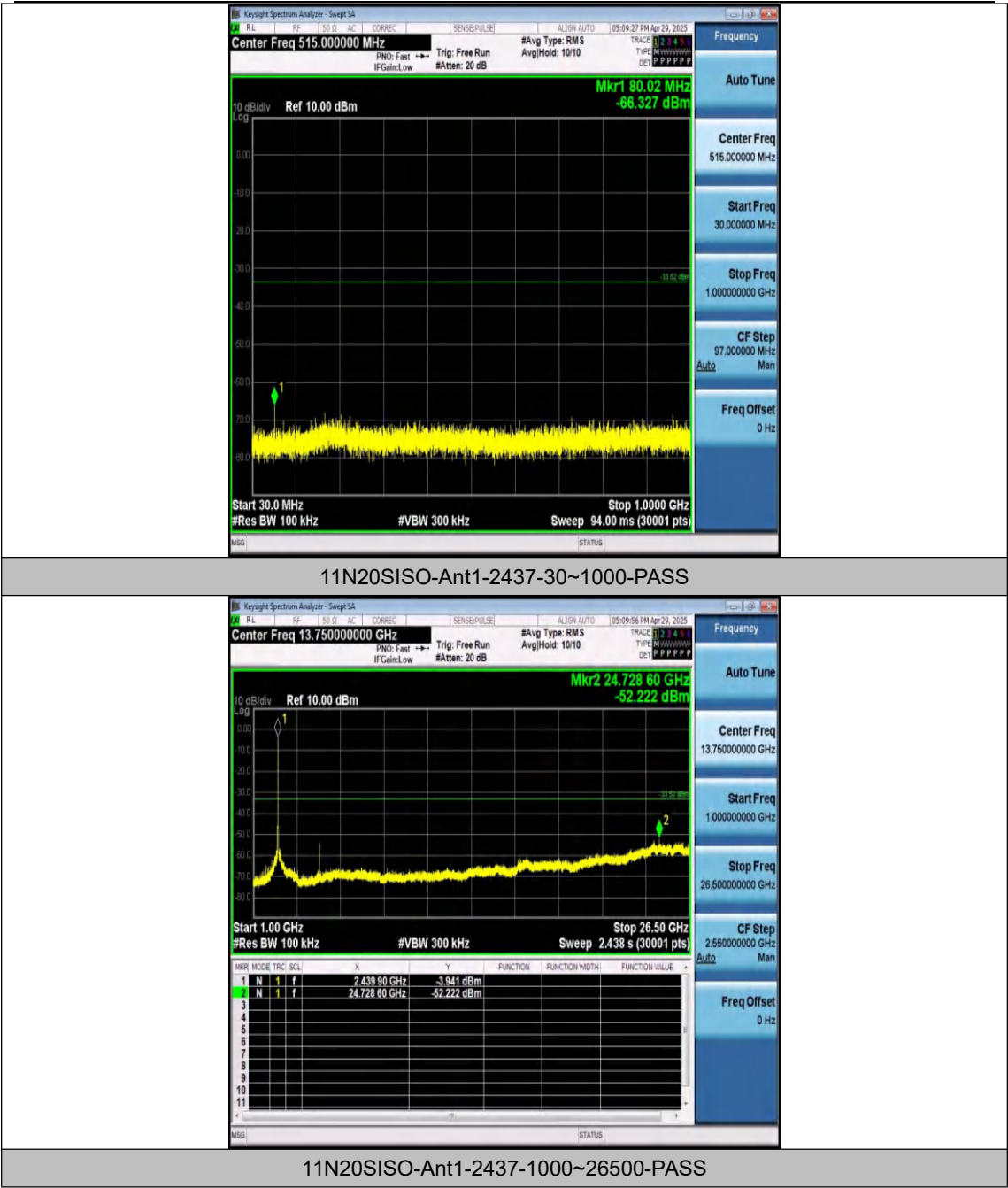
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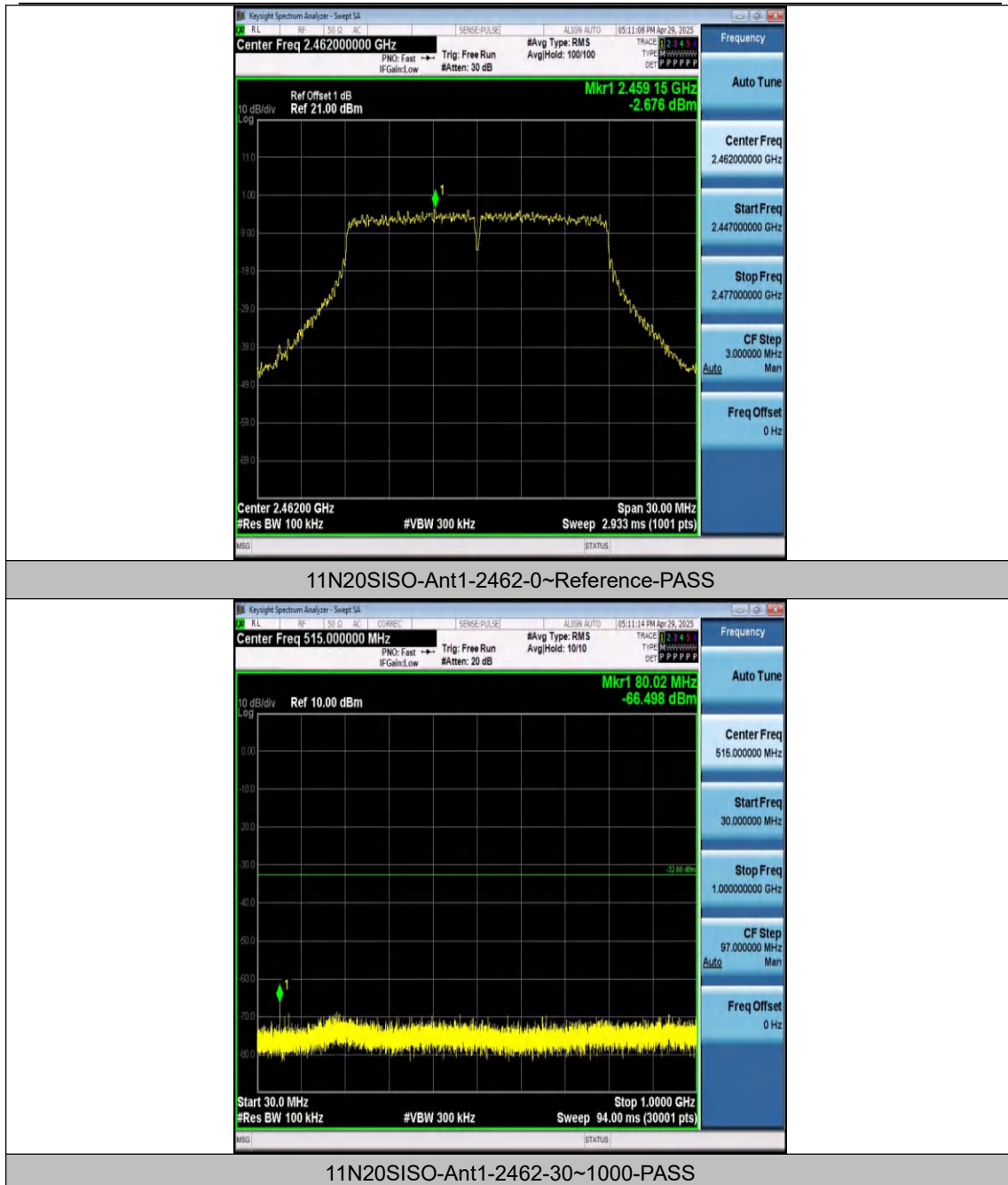


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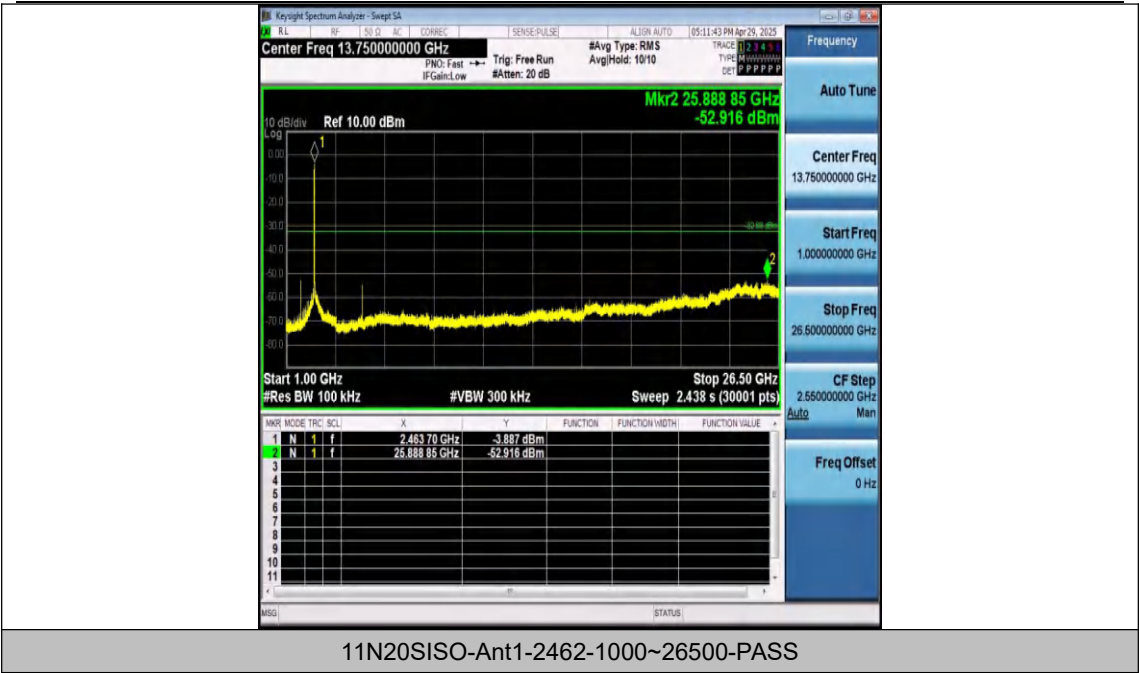




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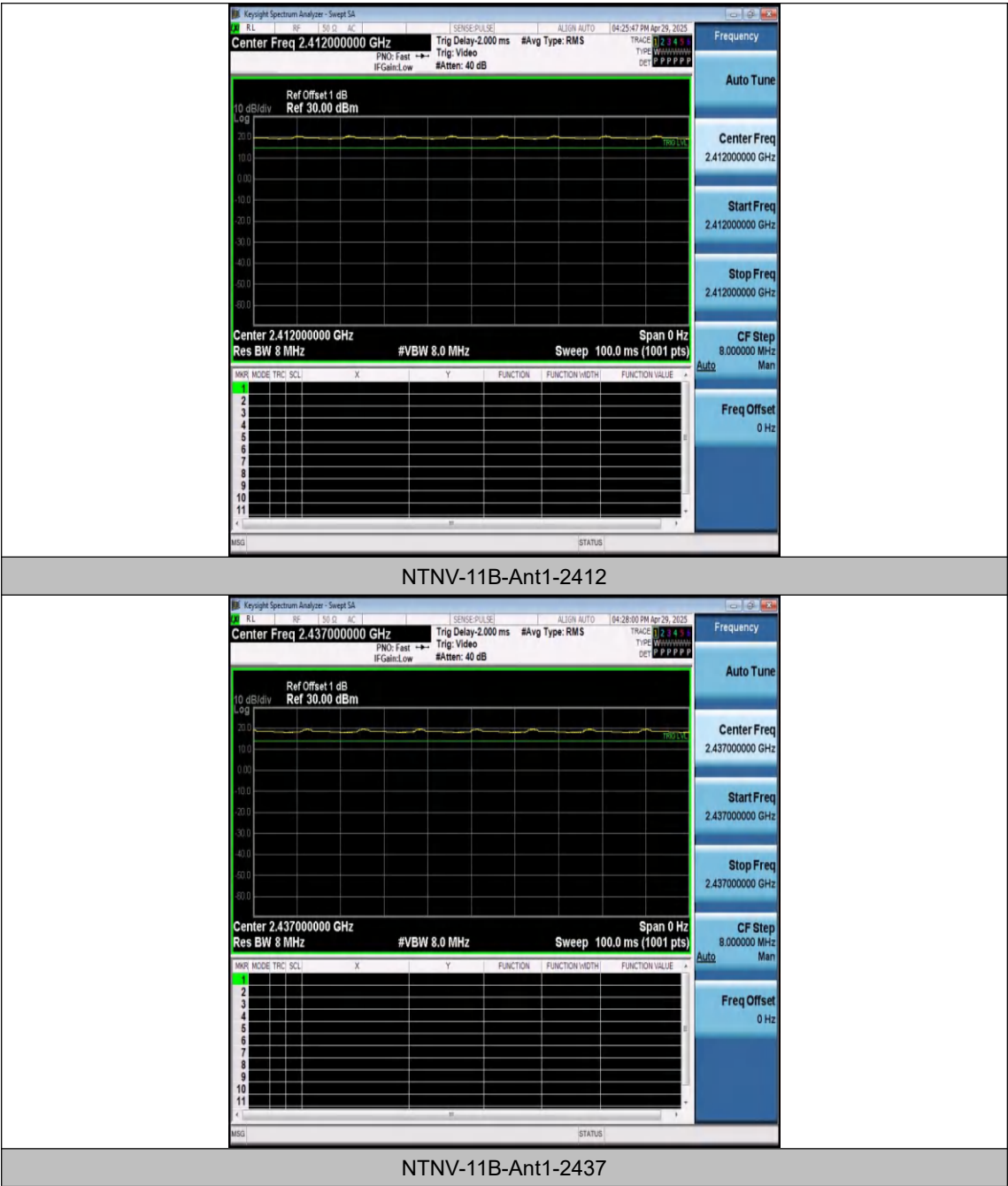
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Appendix G: Duty Cycle

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

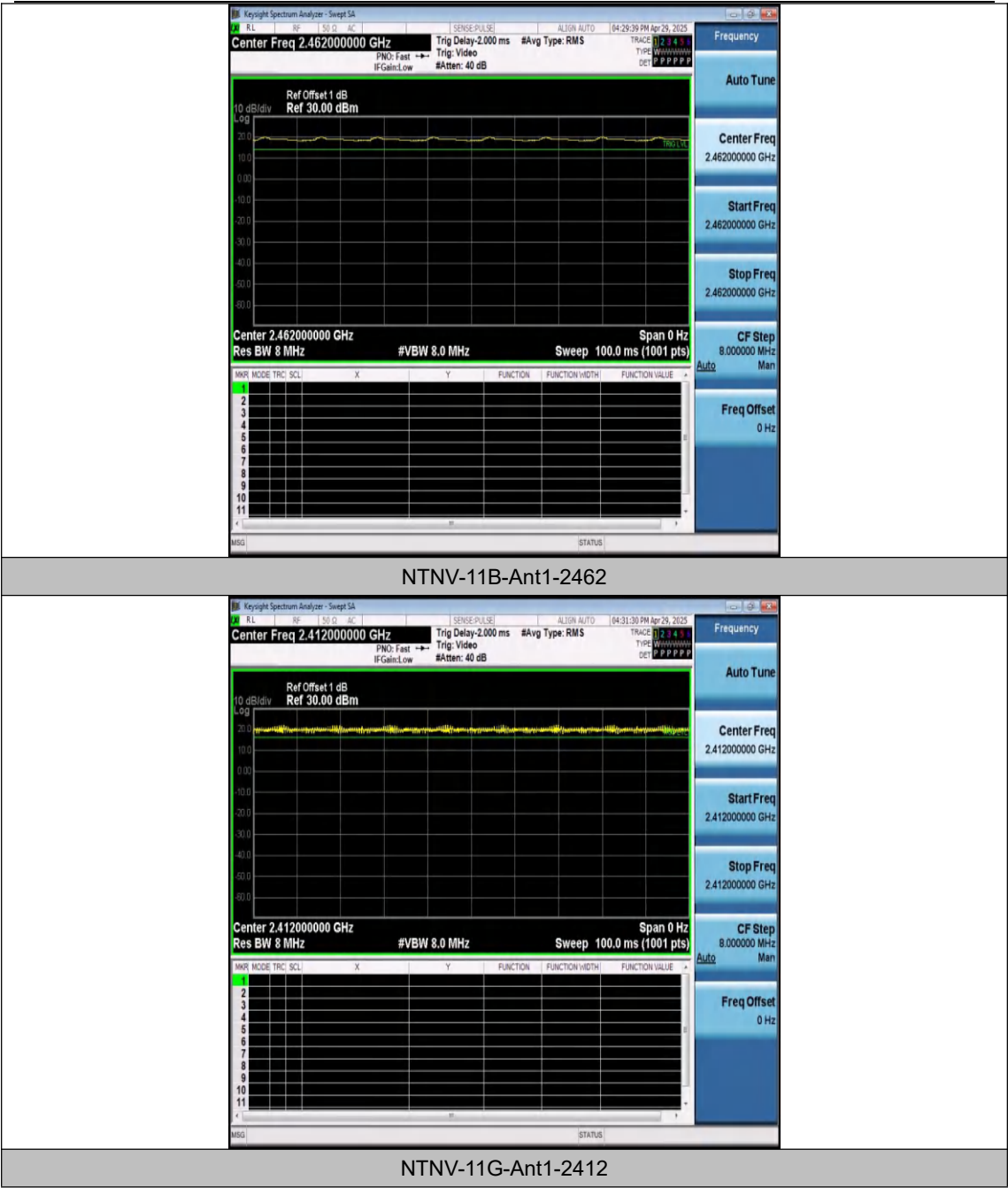
Test Graphs



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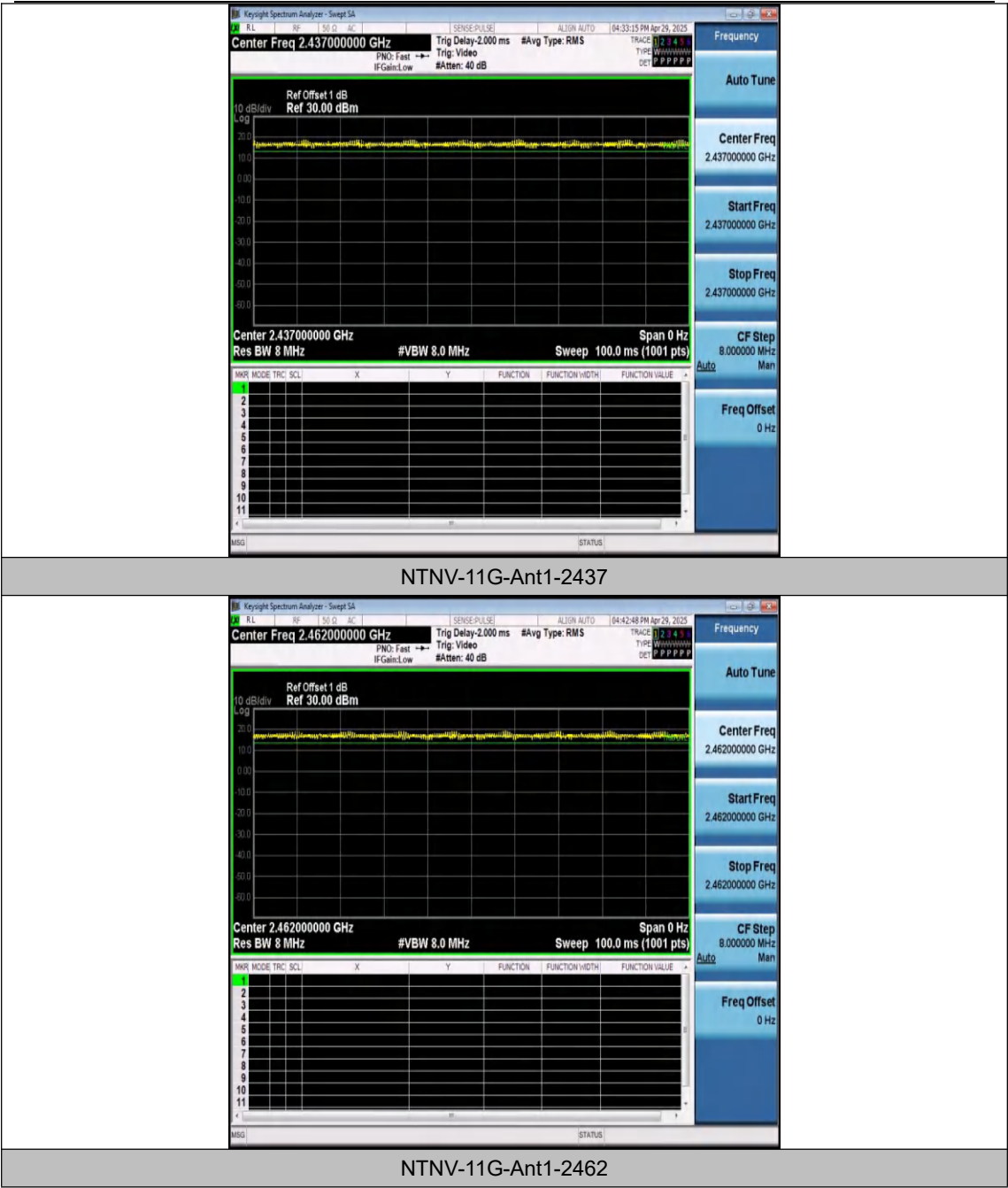
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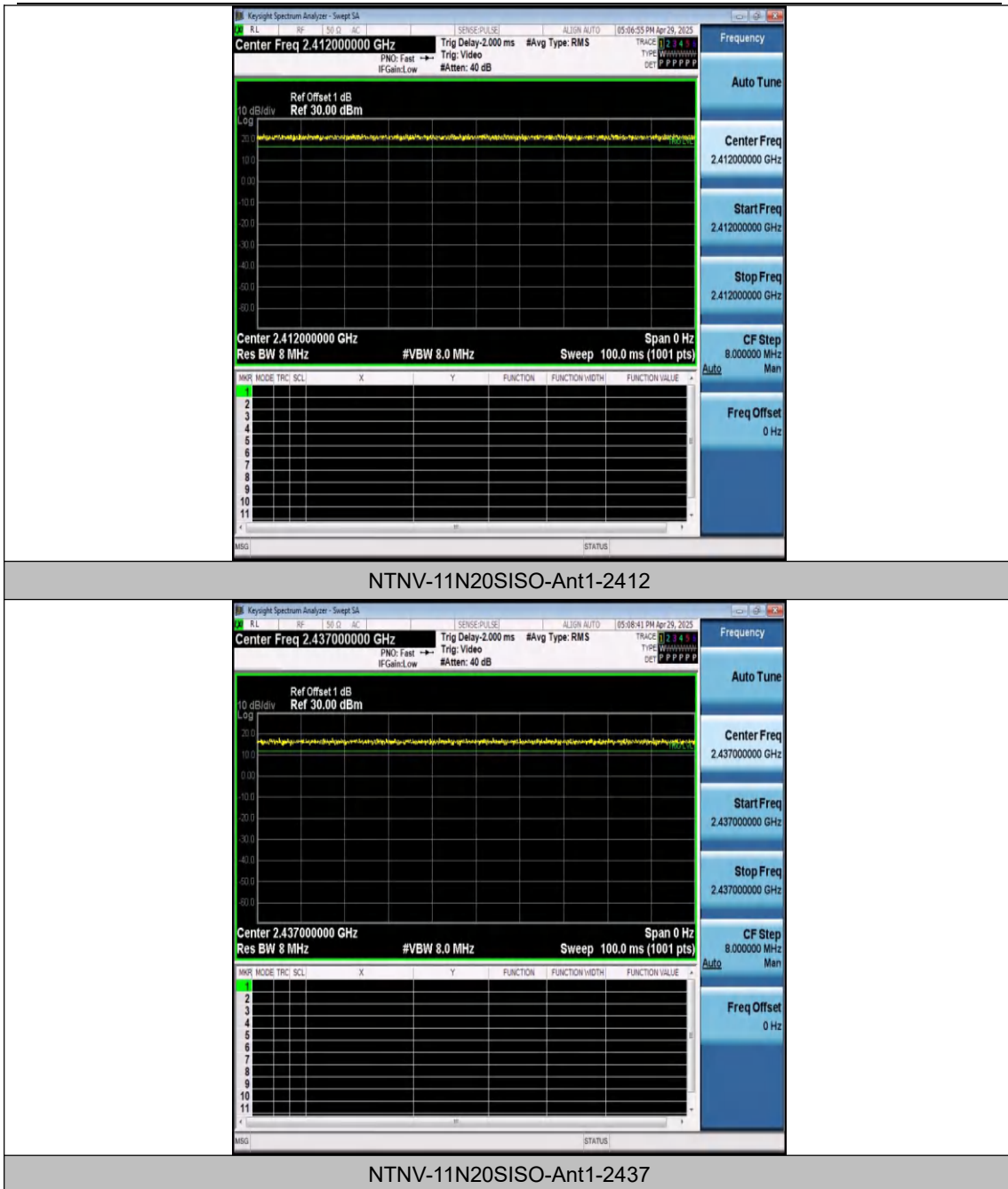
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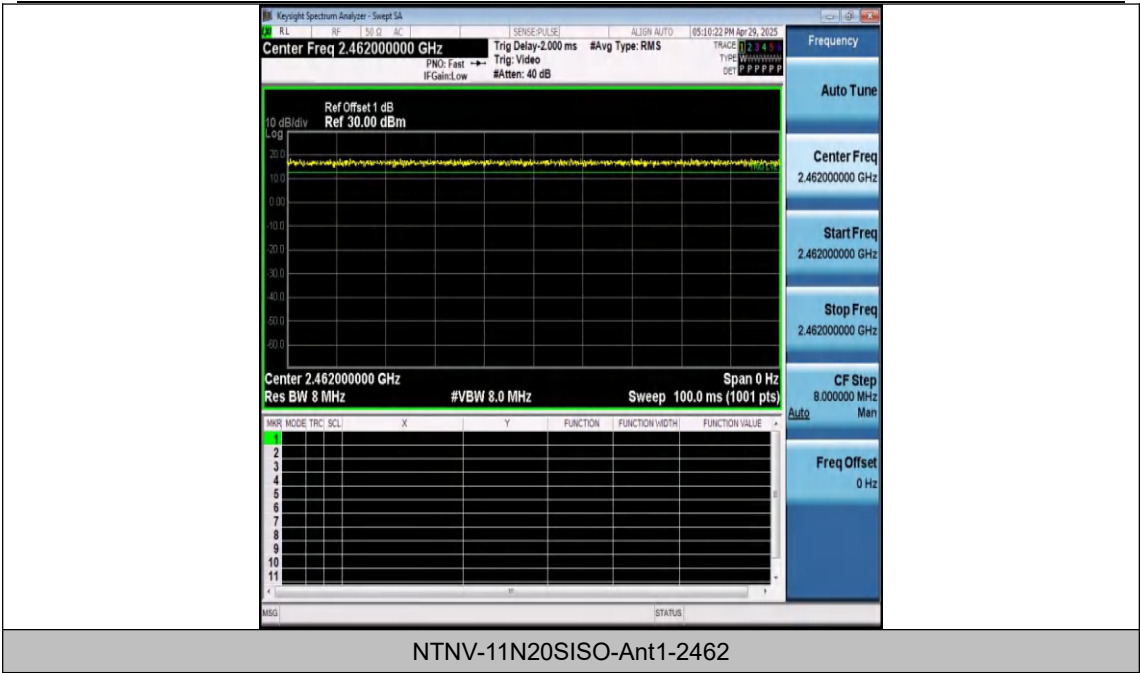
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