

Appendix Test Data

Report No.:	1812C50153912502	Test Sample No.:	1-2-2
Start Test Date:	2025-04-24	Finish Test Date:	2025-04-24
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21°C	Relative Humidity:	40%
Pressure:	101kPa		

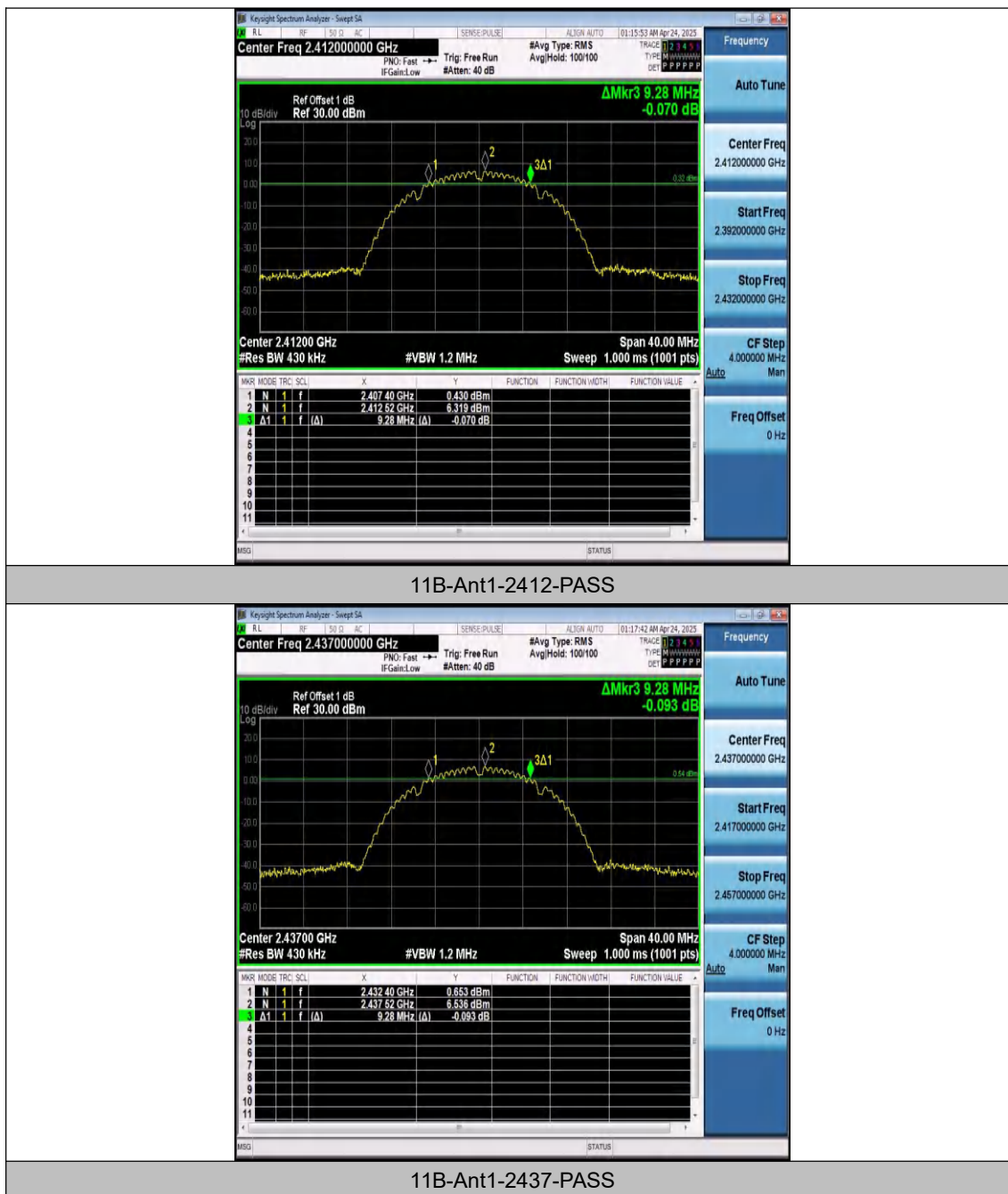
Appendix A: 6dB Bandwidth

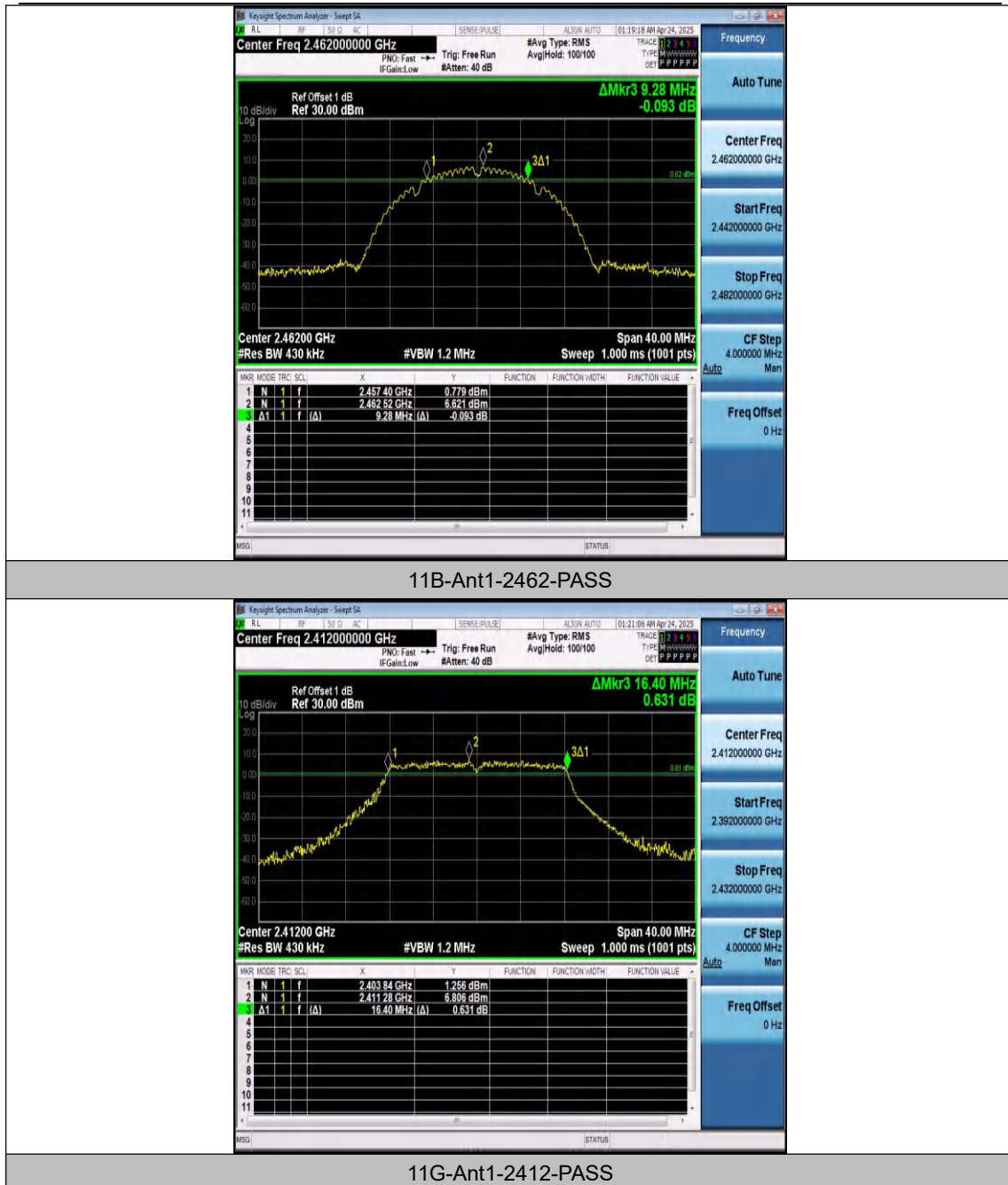
Test Result

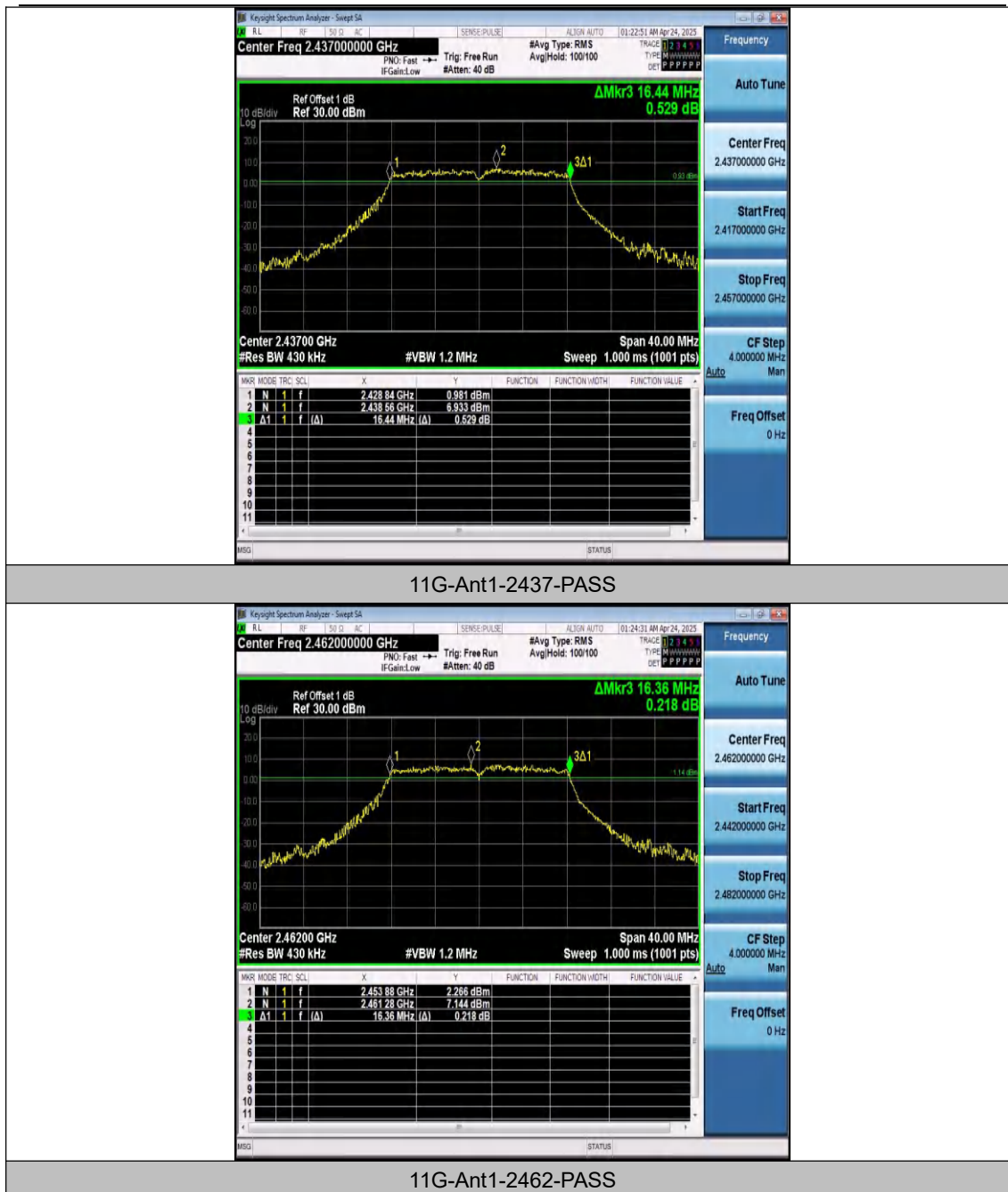
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.280	2407.400	2416.680	0.5	PASS
11B	Ant1	2437	9.280	2432.400	2441.680	0.5	PASS
11B	Ant1	2462	9.280	2457.400	2466.680	0.5	PASS
11G	Ant1	2412	16.400	2403.840	2420.240	0.5	PASS
11G	Ant1	2437	16.440	2428.840	2445.280	0.5	PASS
11G	Ant1	2462	16.360	2453.880	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.520	2428.240	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.240	2470.800	0.5	PASS



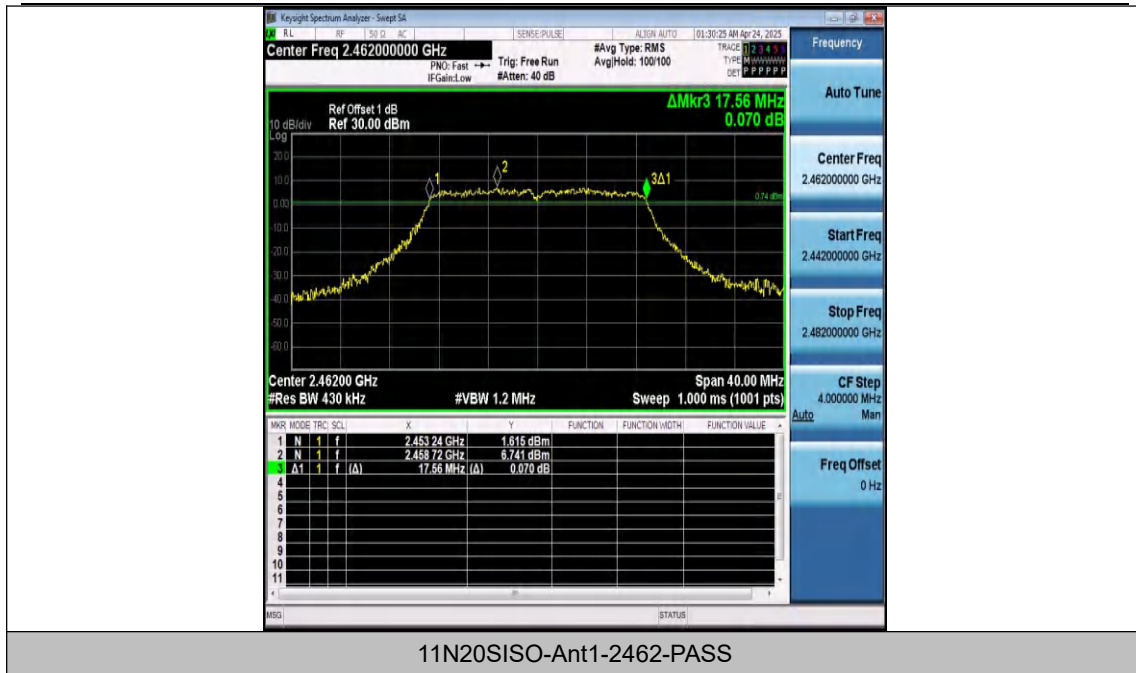
Test Graphs











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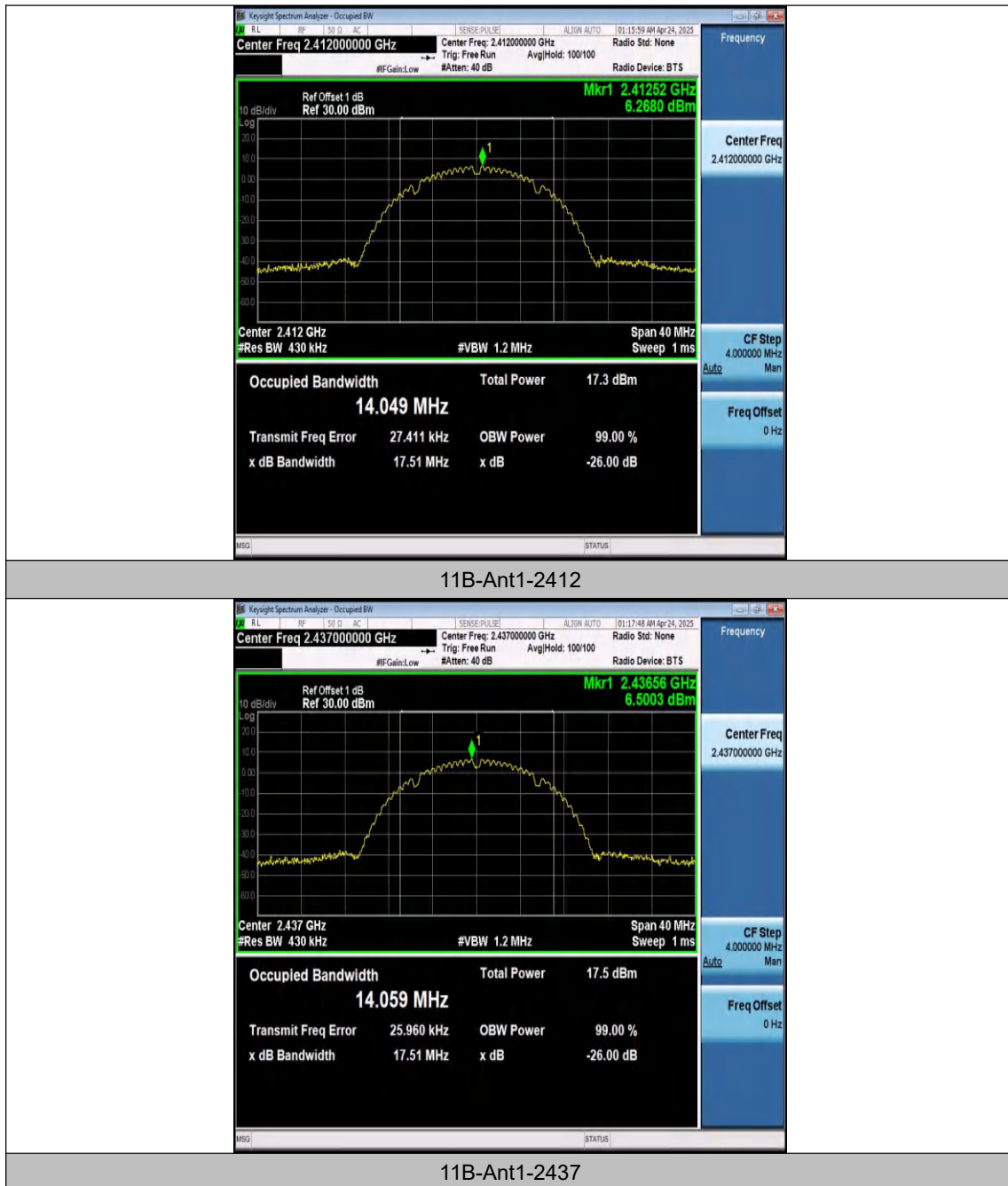
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.049	2405.0029	2419.0519	---	---
11B	Ant1	2437	14.059	2429.9965	2444.0555	---	---
11B	Ant1	2462	14.058	2454.9961	2469.0541	---	---
11G	Ant1	2412	17.000	2403.4863	2420.4863	---	---
11G	Ant1	2437	17.051	2428.4326	2445.4836	---	---
11G	Ant1	2462	17.044	2453.4512	2470.4952	---	---
11N20SISO	Ant1	2412	18.151	2402.9445	2421.0955	---	---
11N20SISO	Ant1	2437	18.117	2427.9920	2446.1090	---	---
11N20SISO	Ant1	2462	18.110	2452.9691	2471.0791	---	---

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Test Graphs

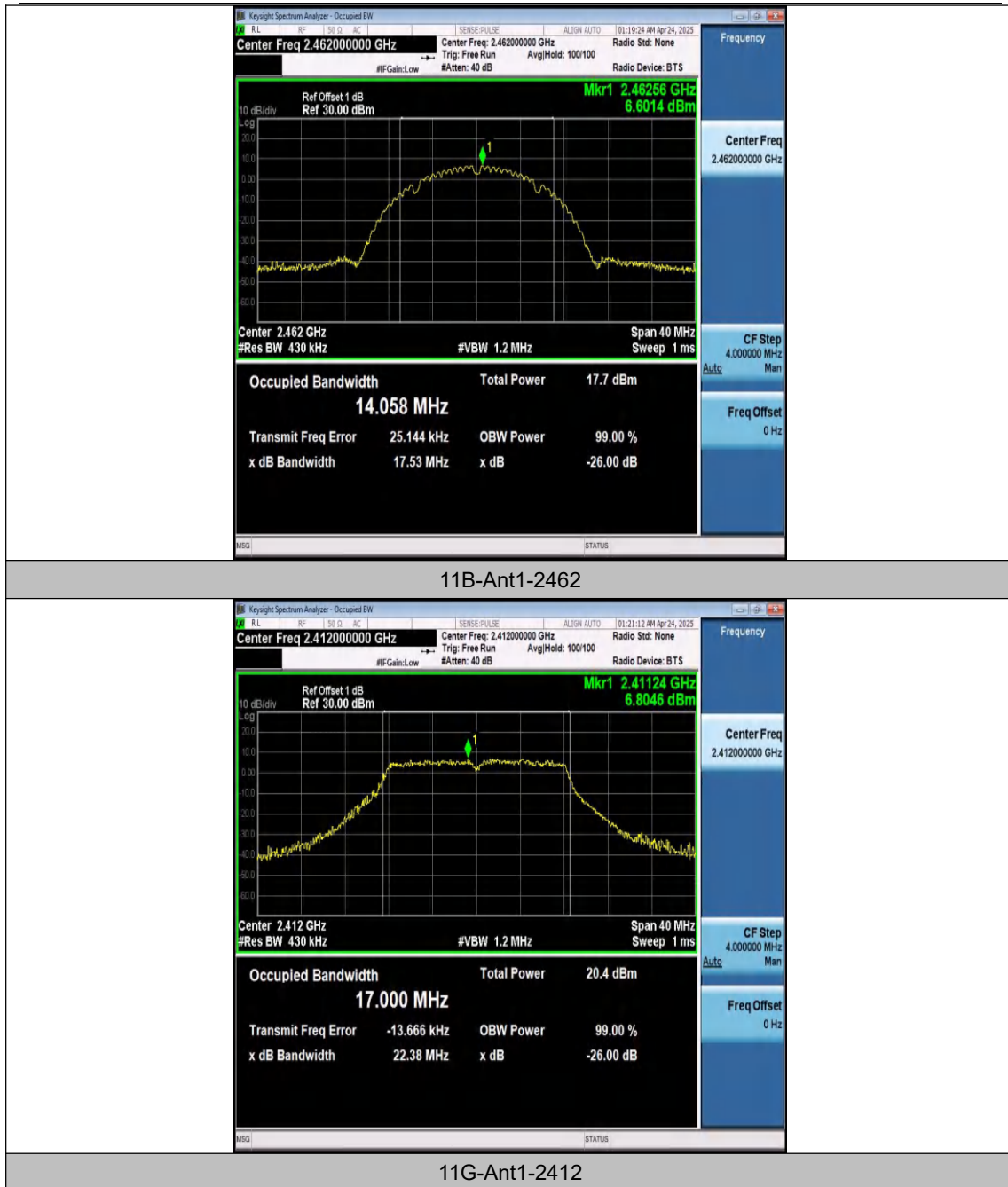


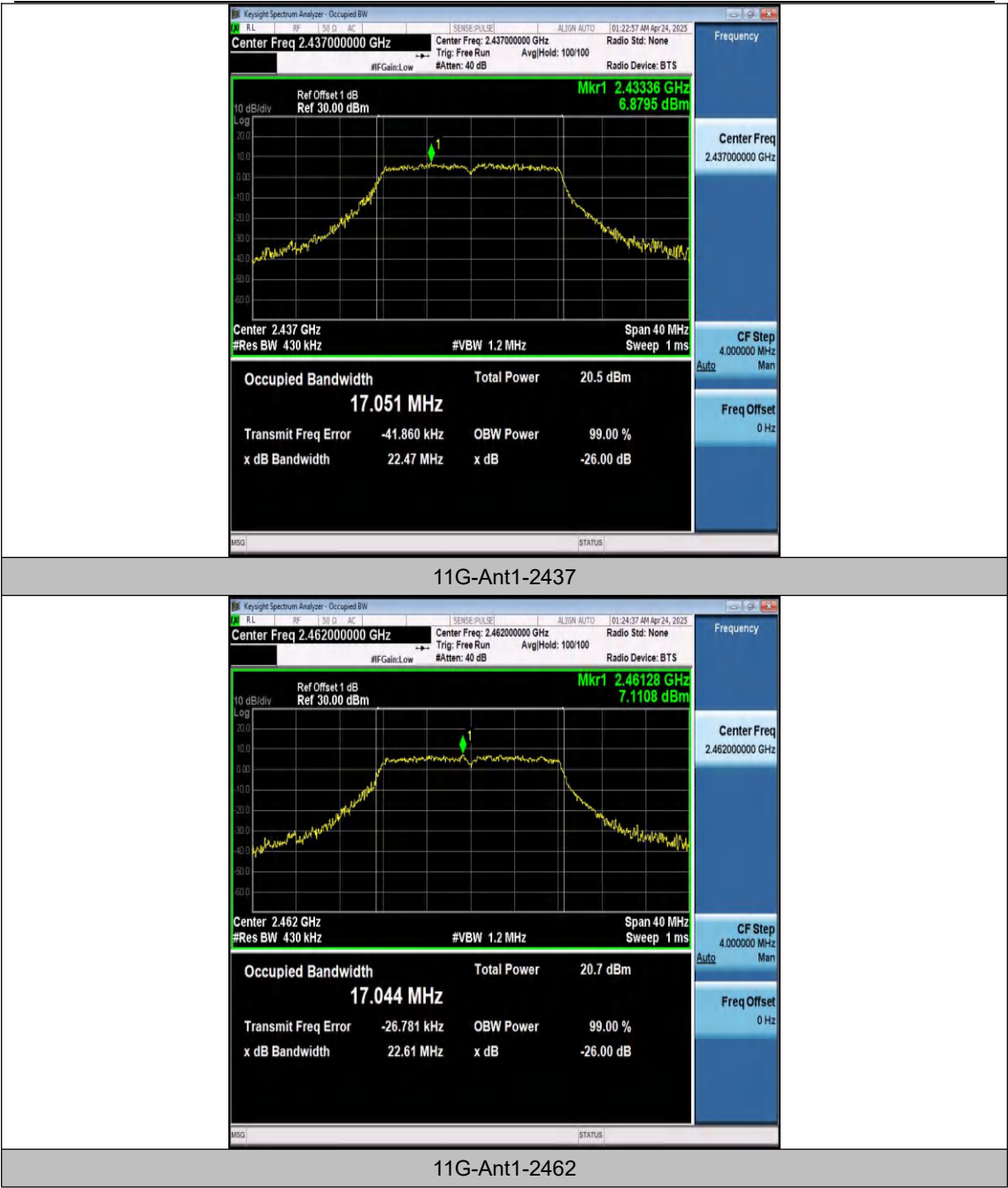
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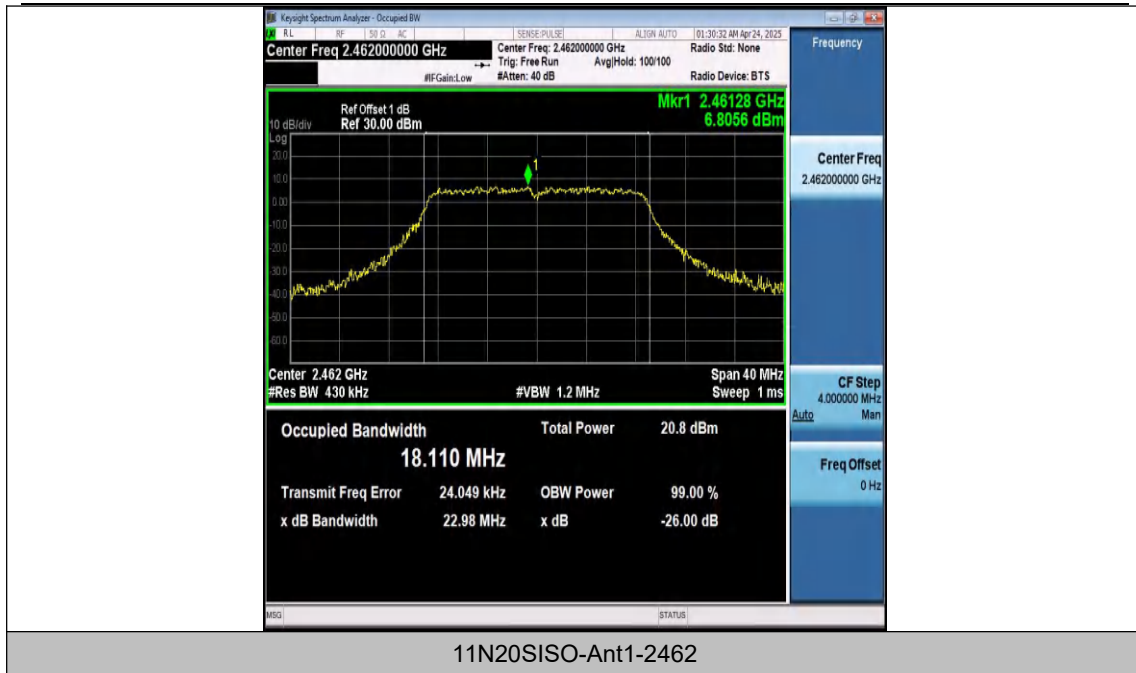


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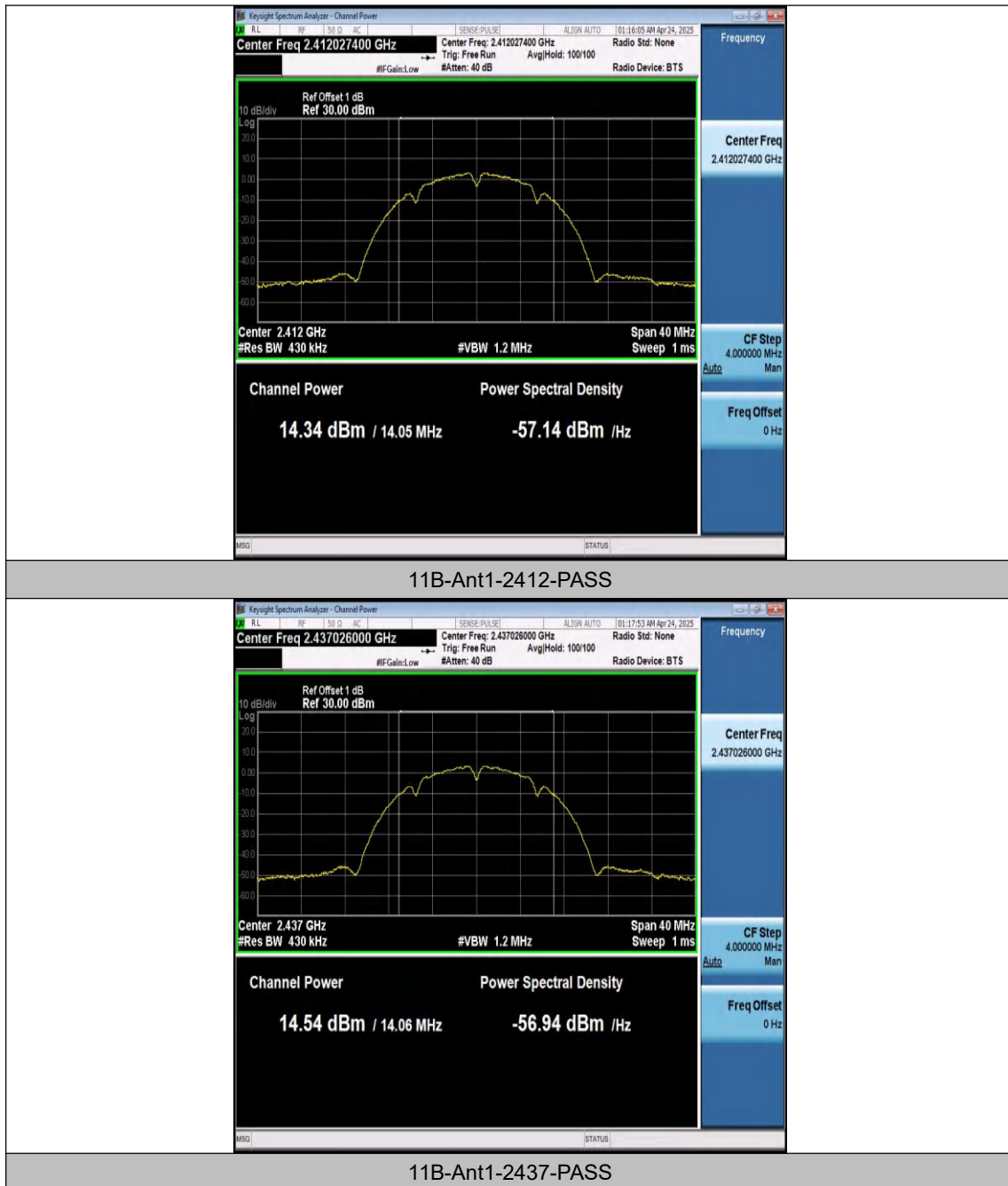
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.34	100.00	0.00	14.34	≤30.0 0	PASS
11B	Ant1	2437	14.54	100.00	0.00	14.54	≤30.0 0	PASS
11B	Ant1	2462	14.74	100.00	0.00	14.74	≤30.0 0	PASS
11G	Ant1	2412	14.41	100.00	0.00	14.41	≤30.0 0	PASS
11G	Ant1	2437	14.56	100.00	0.00	14.56	≤30.0 0	PASS
11G	Ant1	2462	14.74	100.00	0.00	14.74	≤30.0 0	PASS
11N20SI SO	Ant1	2412	15.25	100.00	0.00	15.25	≤30.0 0	PASS
11N20SI SO	Ant1	2437	14.46	100.00	0.00	14.46	≤30.0 0	PASS
11N20SI SO	Ant1	2462	14.66	100.00	0.00	14.66	≤30.0 0	PASS

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

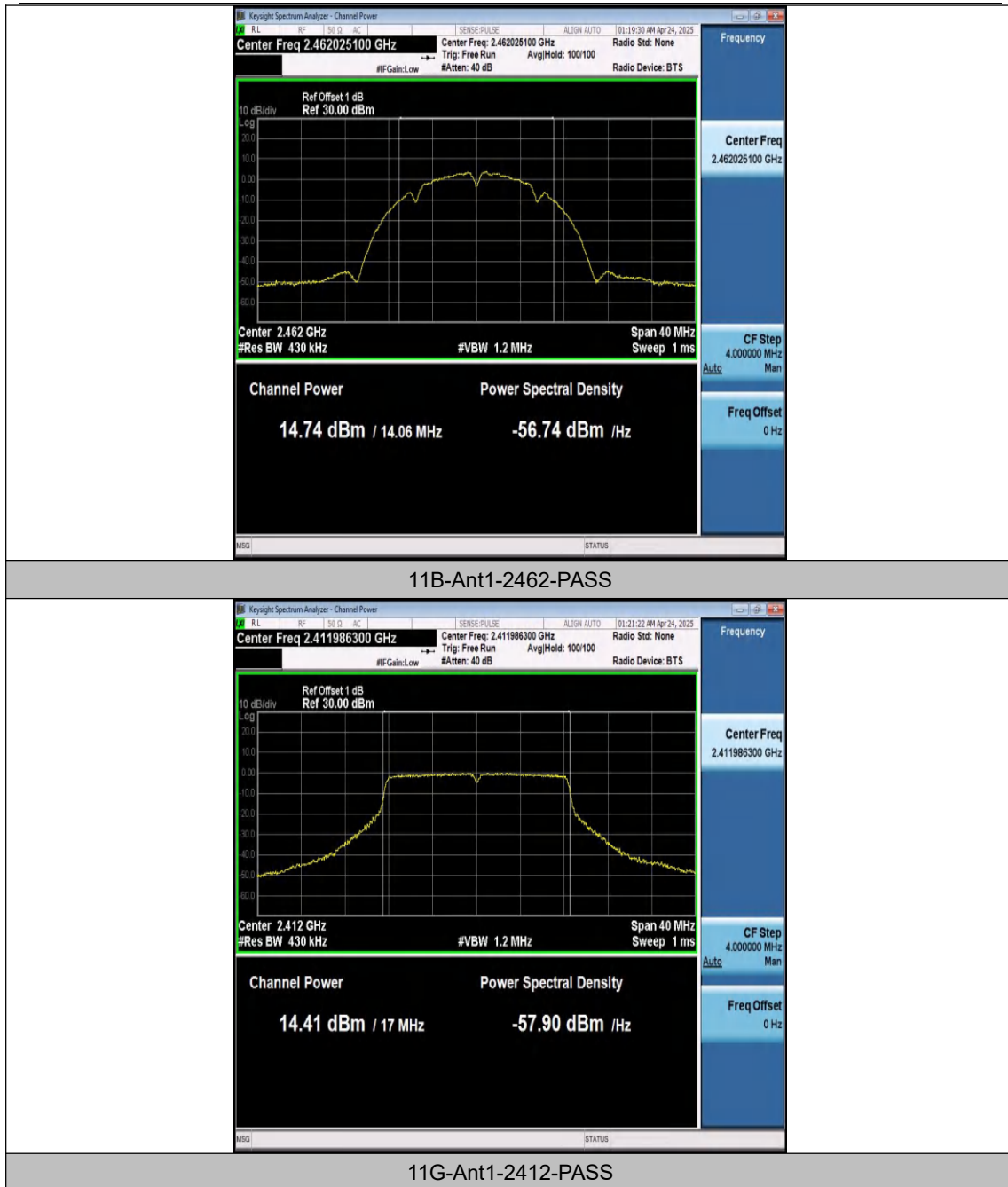
Test Graphs Average

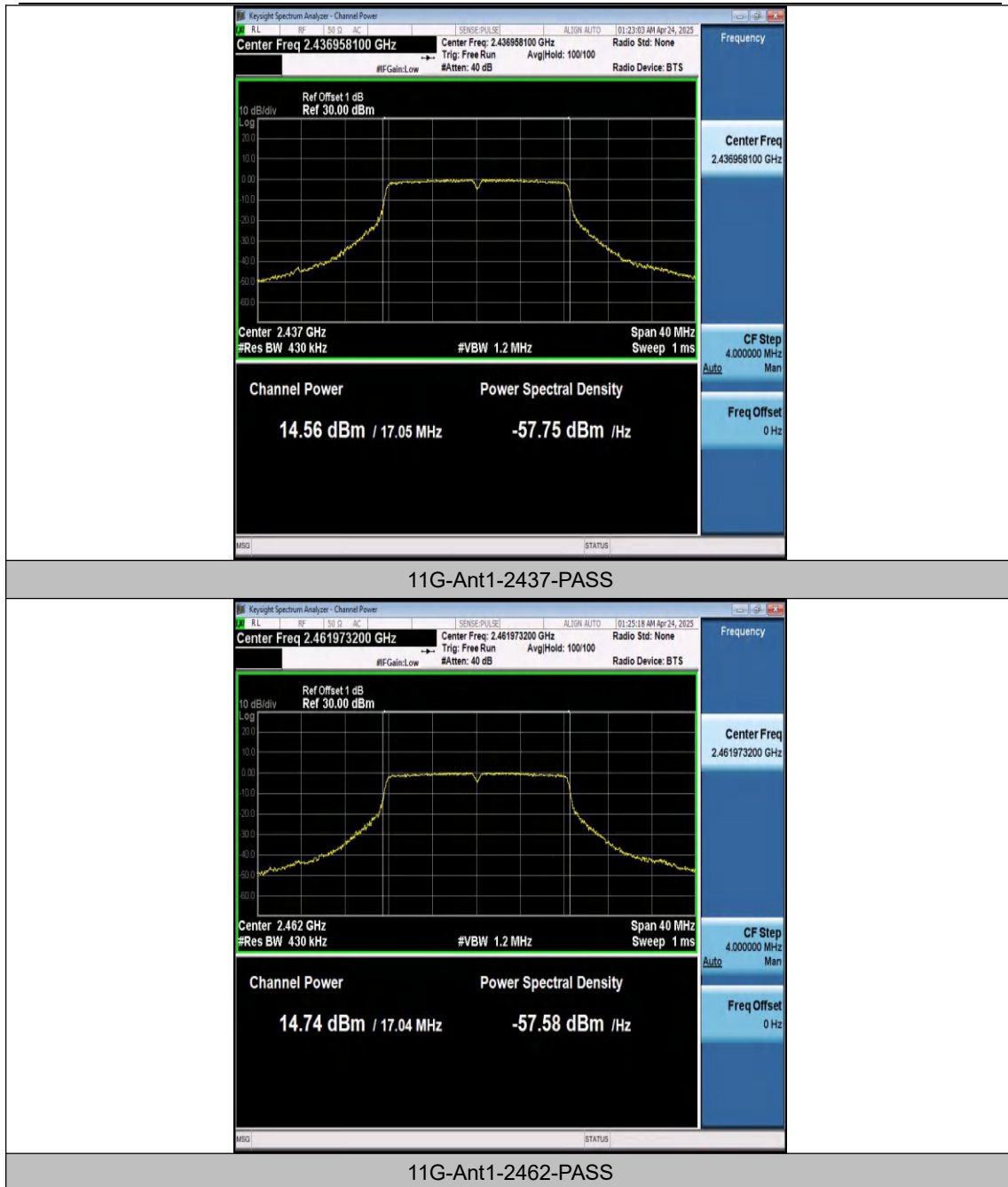


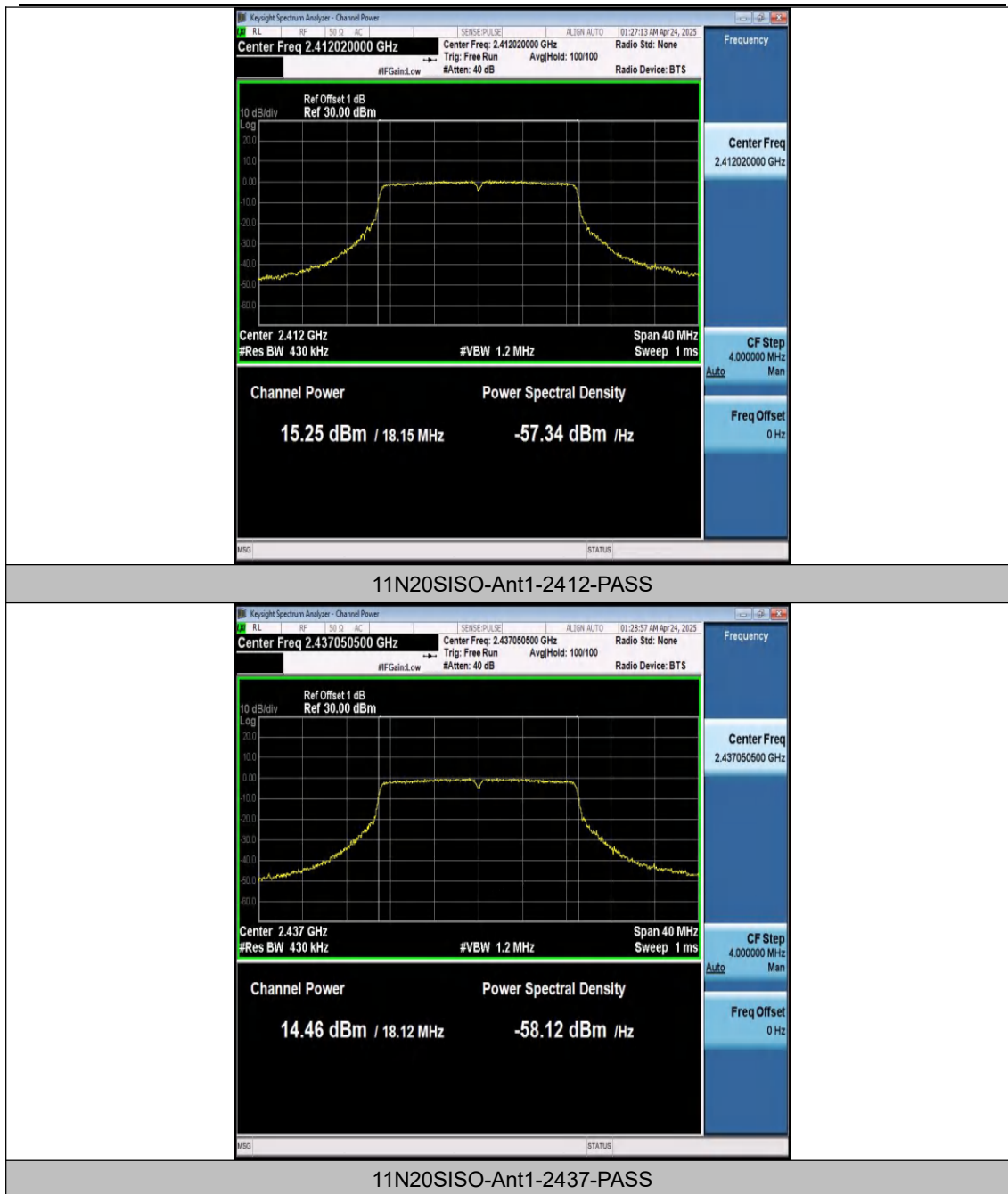
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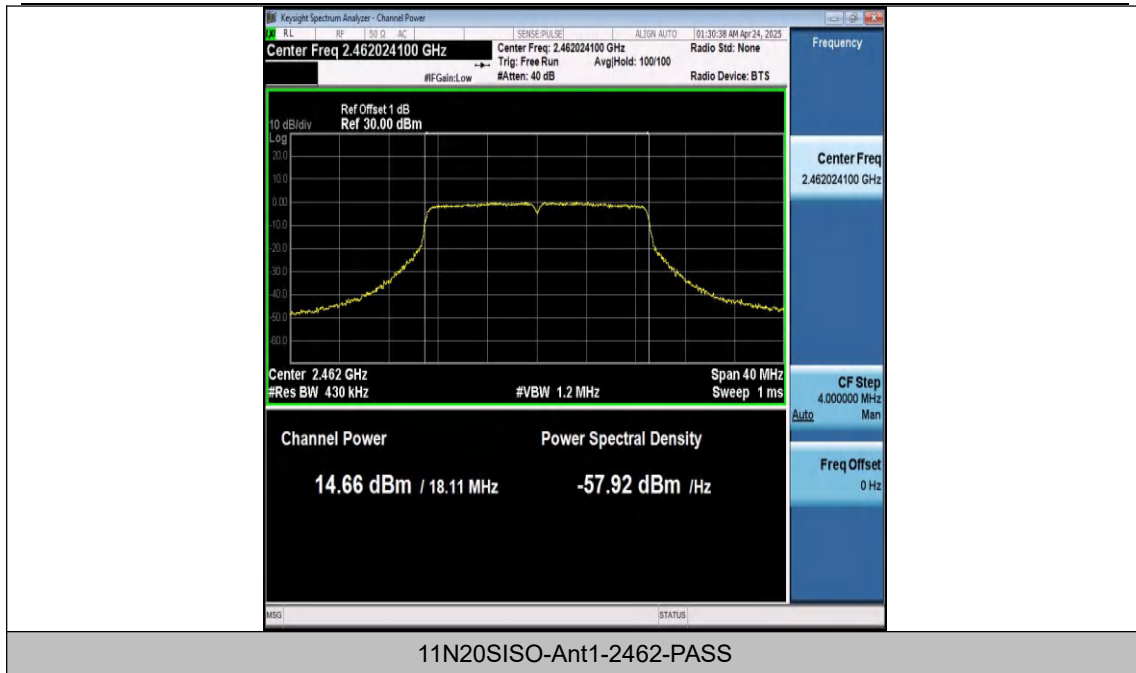
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Appendix D: Maximum power spectral density

Test Result

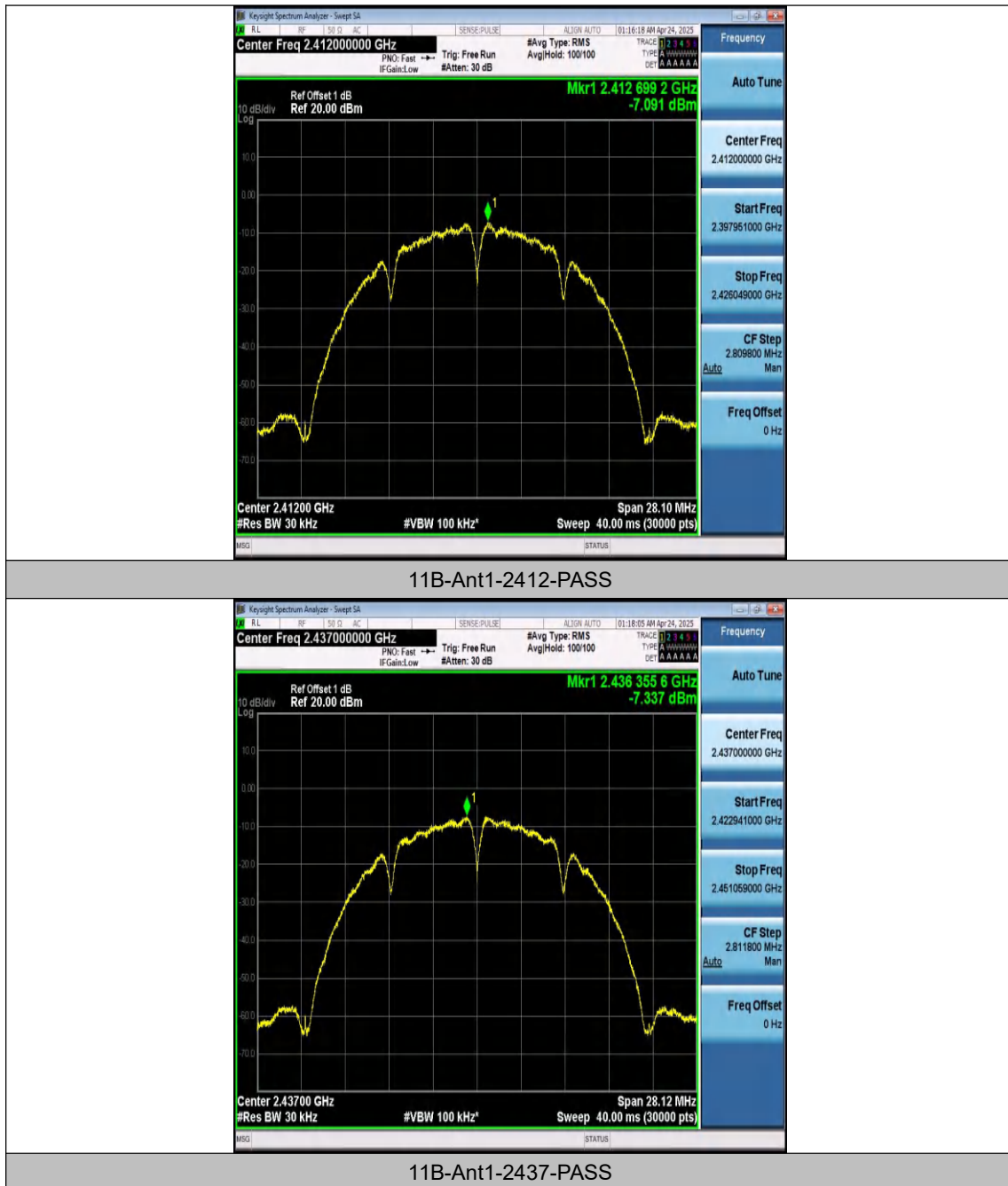
Test Mode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.09	-17.09	≤8.00	PASS
11B	Ant1	2437	-7.34	-17.34	≤8.00	PASS
11B	Ant1	2462	-7.06	-17.06	≤8.00	PASS
11G	Ant1	2412	-9.89	-19.89	≤8.00	PASS
11G	Ant1	2437	-9.34	-19.34	≤8.00	PASS
11G	Ant1	2462	-9.72	-19.72	≤8.00	PASS
11N20SIS O	Ant1	2412	-9.03	-19.03	≤8.00	PASS
11N20SIS O	Ant1	2437	-10.06	-20.06	≤8.00	PASS
11N20SIS O	Ant1	2462	-9.70	-19.7	≤8.00	PASS

Note:

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



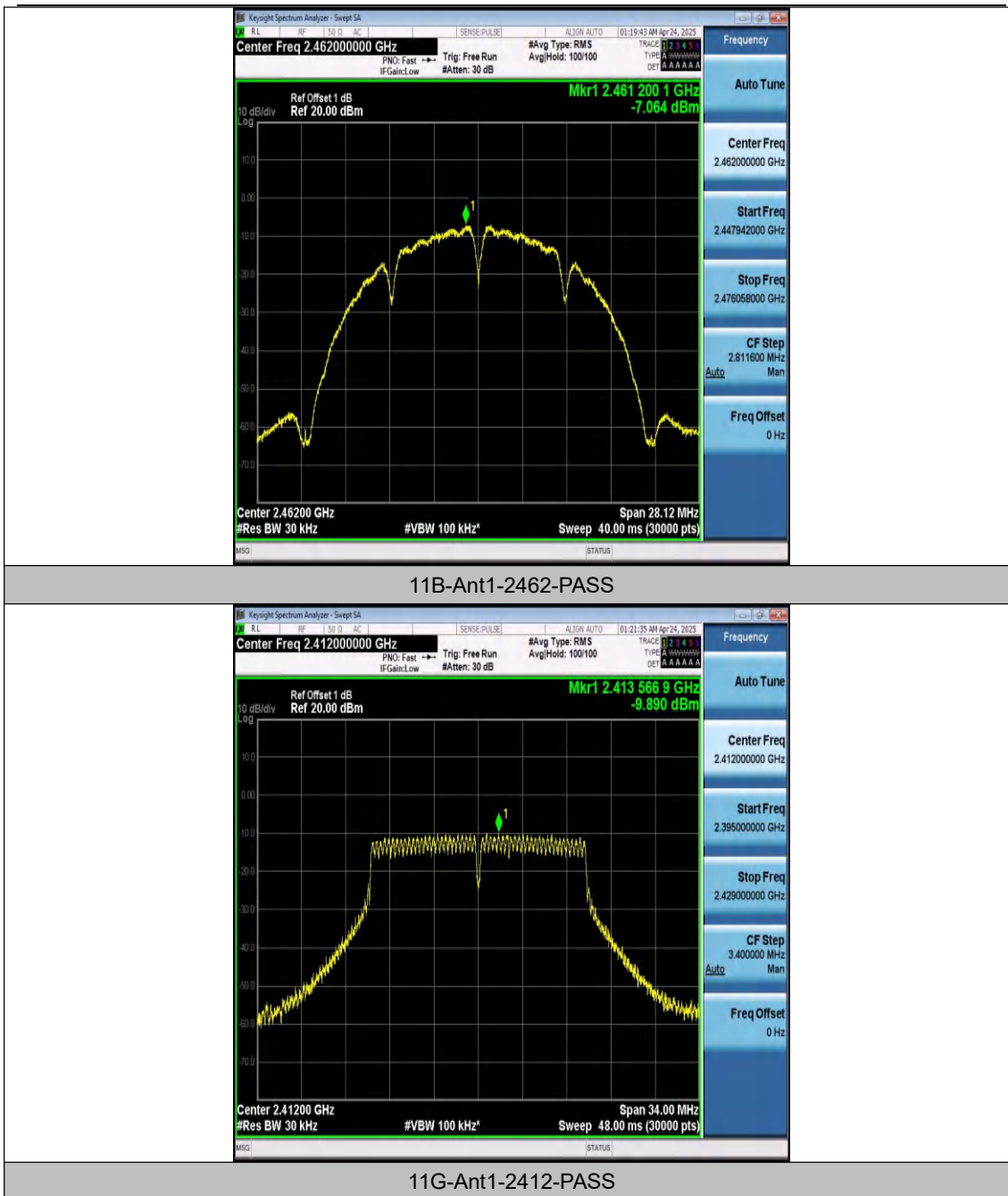
Test Graphs



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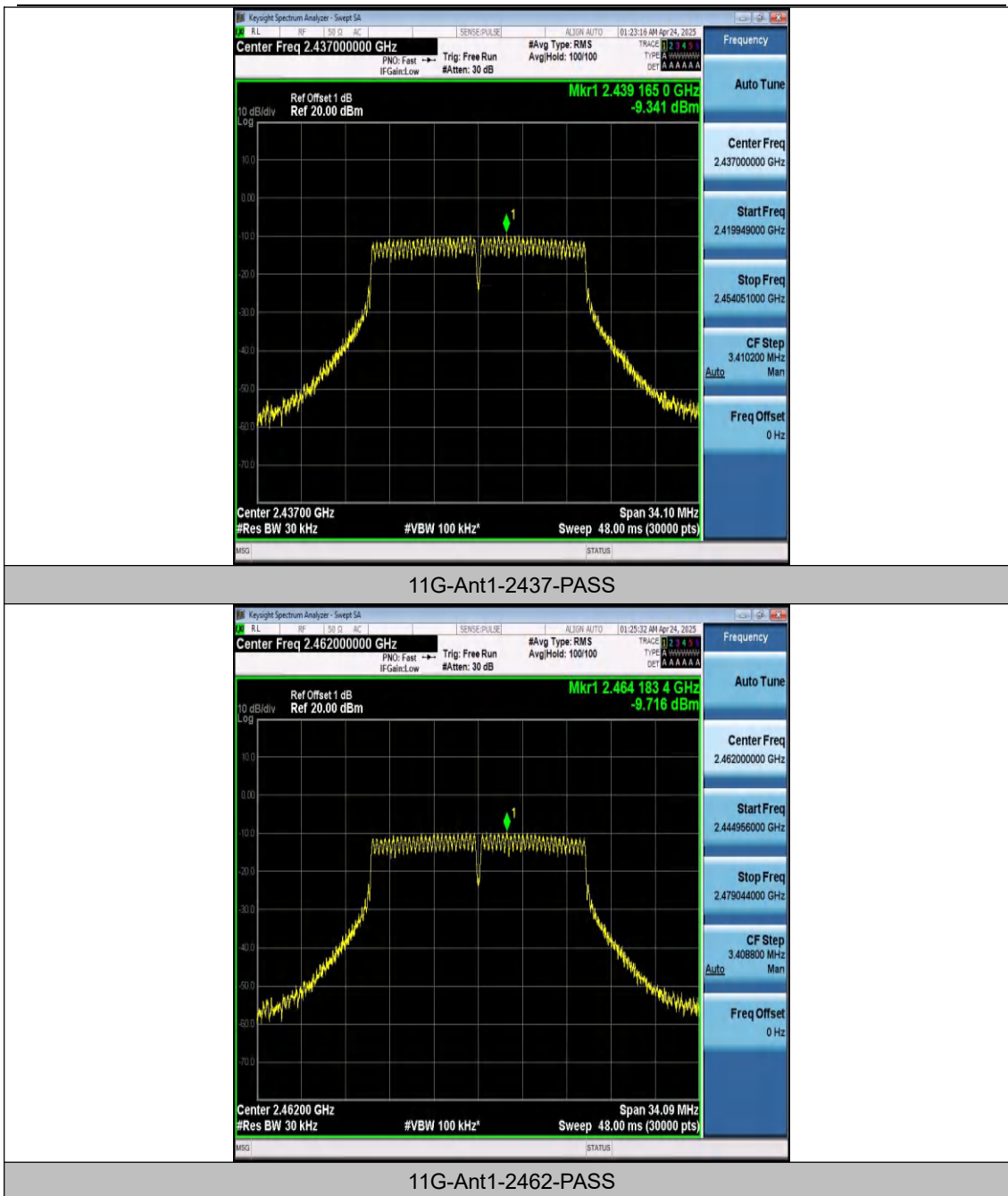


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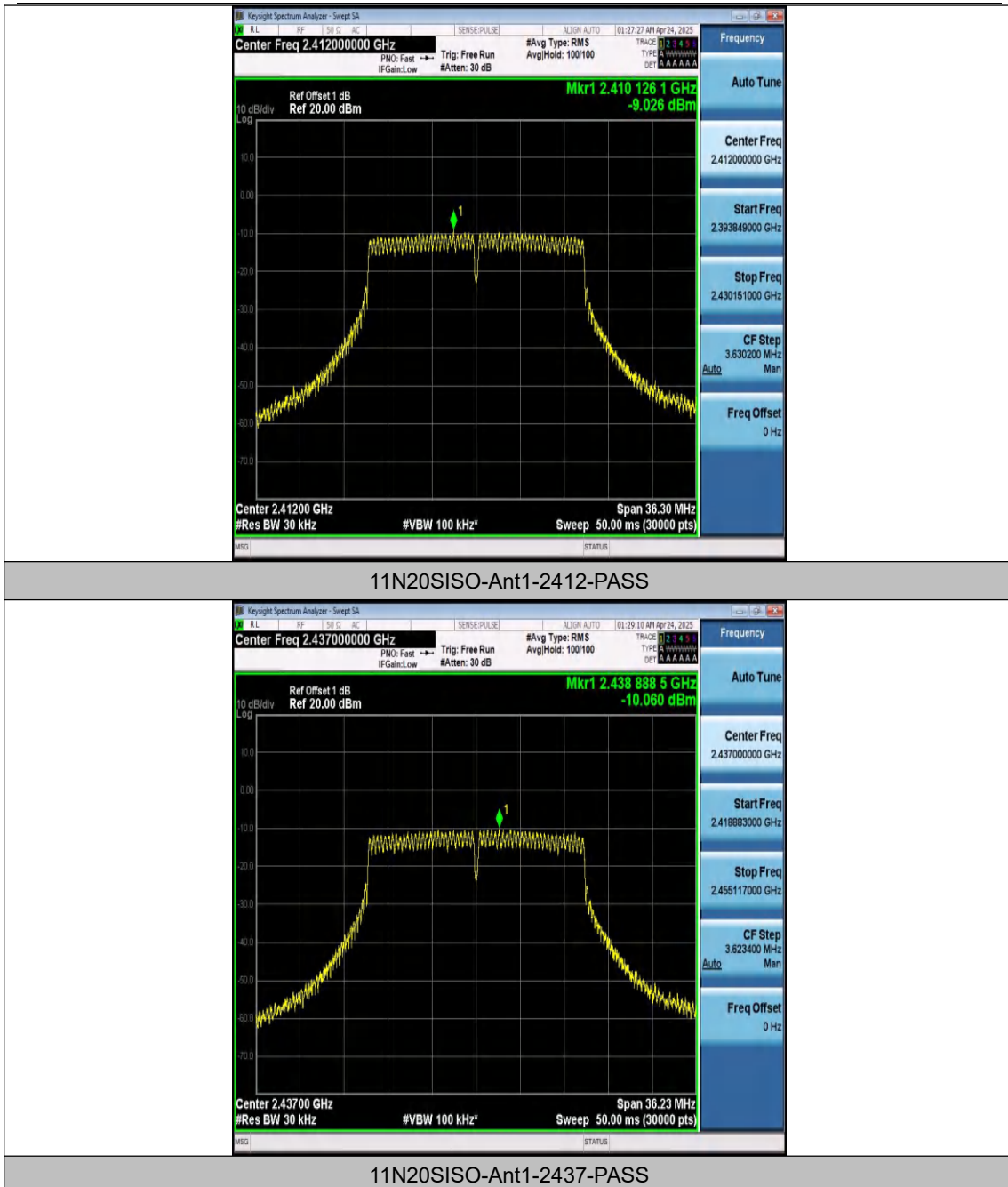


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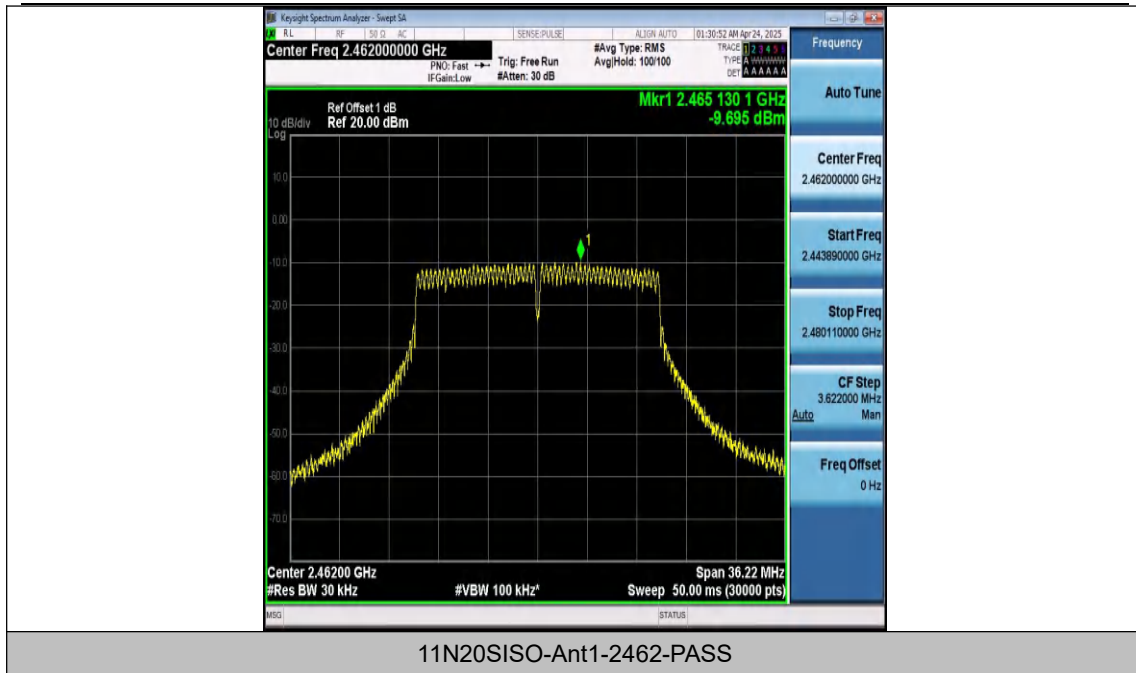


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Appendix E: Conducted Band edge

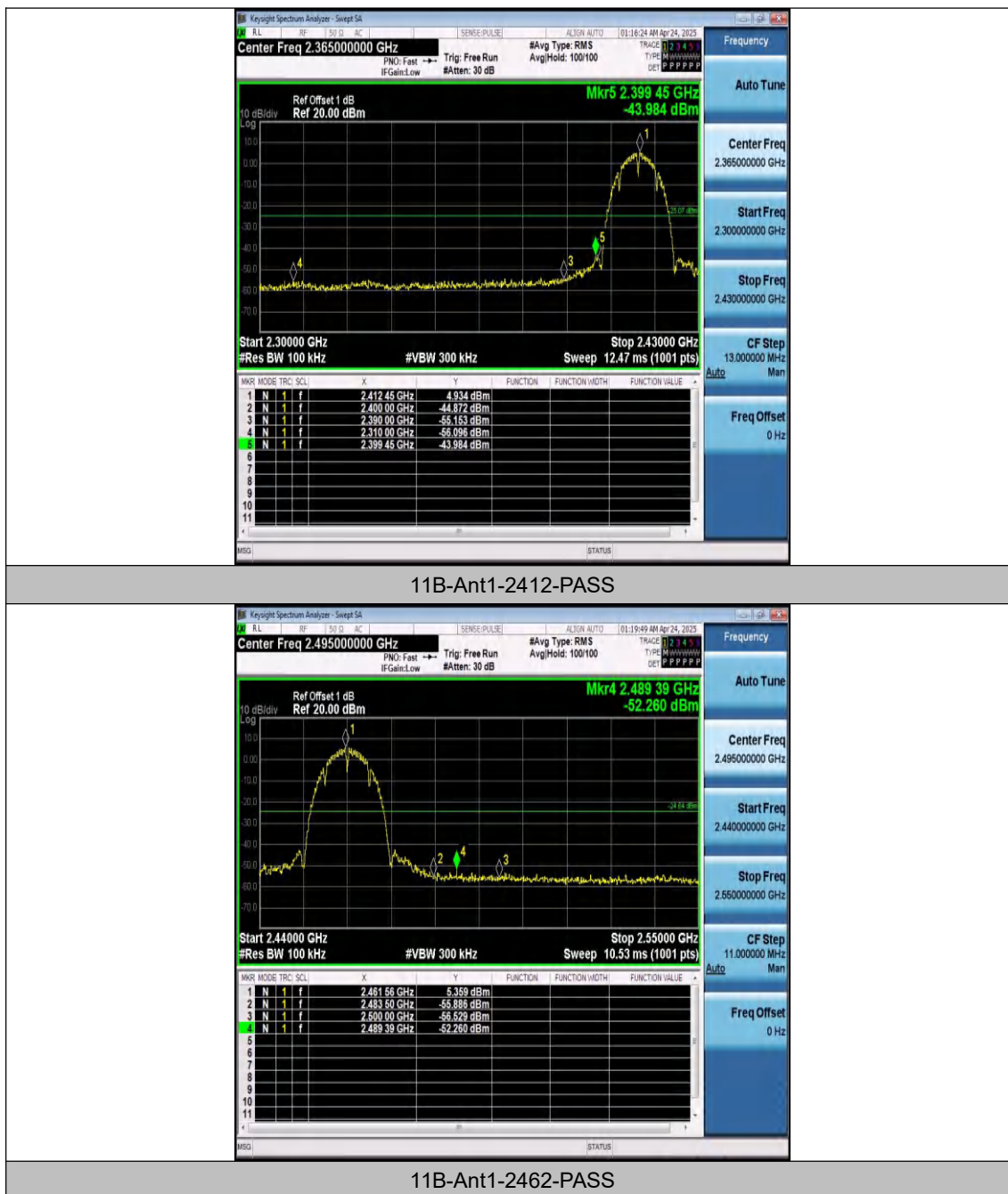
Test Result

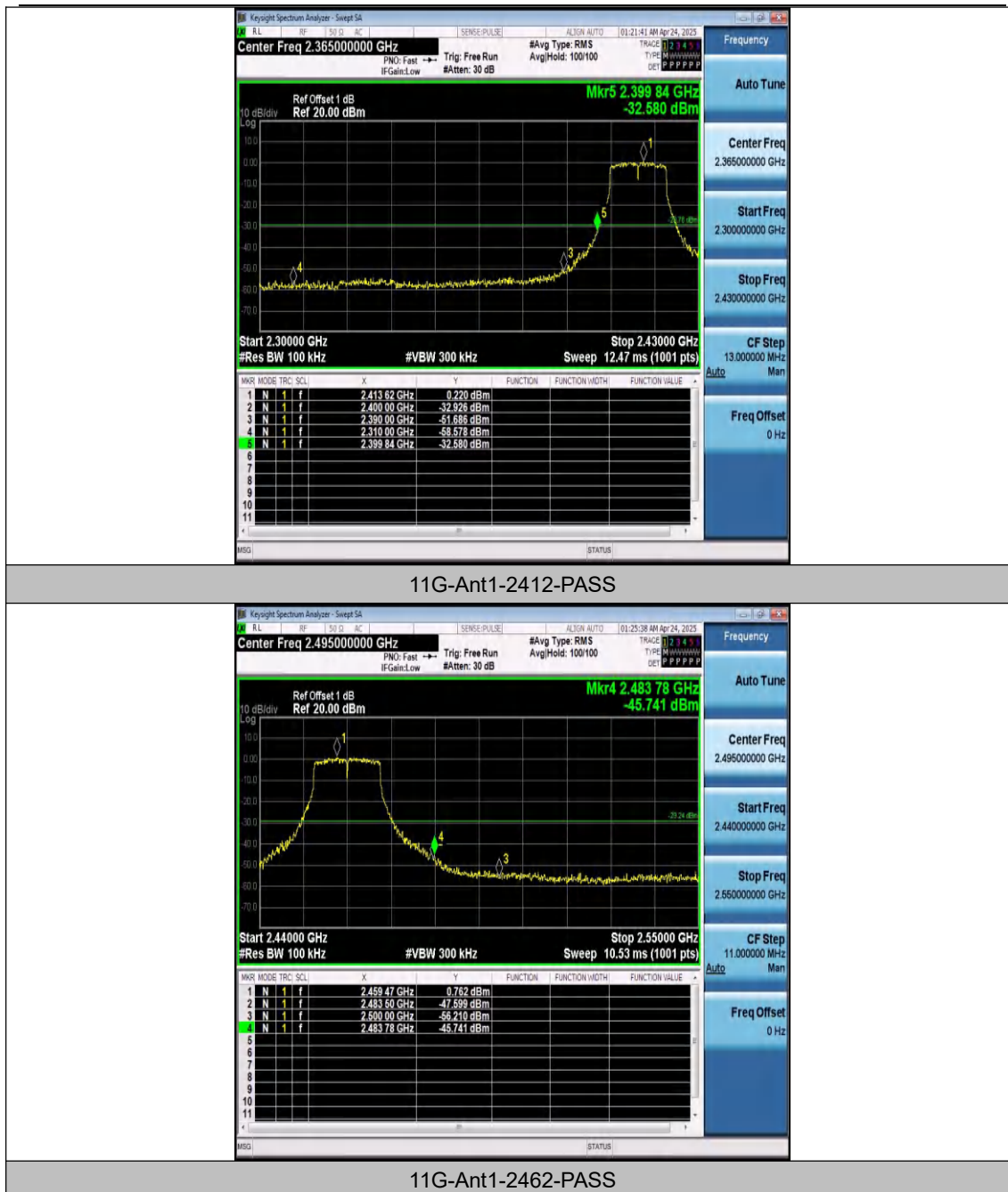
Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.93	-43.98	≤-25.07	PASS
11B	Ant1	High	2462	5.36	-52.26	≤-24.64	PASS
11G	Ant1	Low	2412	0.22	-32.58	≤-29.78	PASS
11G	Ant1	High	2462	0.76	-45.74	≤-29.24	PASS
11N20SISO	Ant1	Low	2412	0.93	-29.85	≤-29.07	PASS
11N20SISO	Ant1	High	2462	0.28	-45.1	≤-29.72	PASS

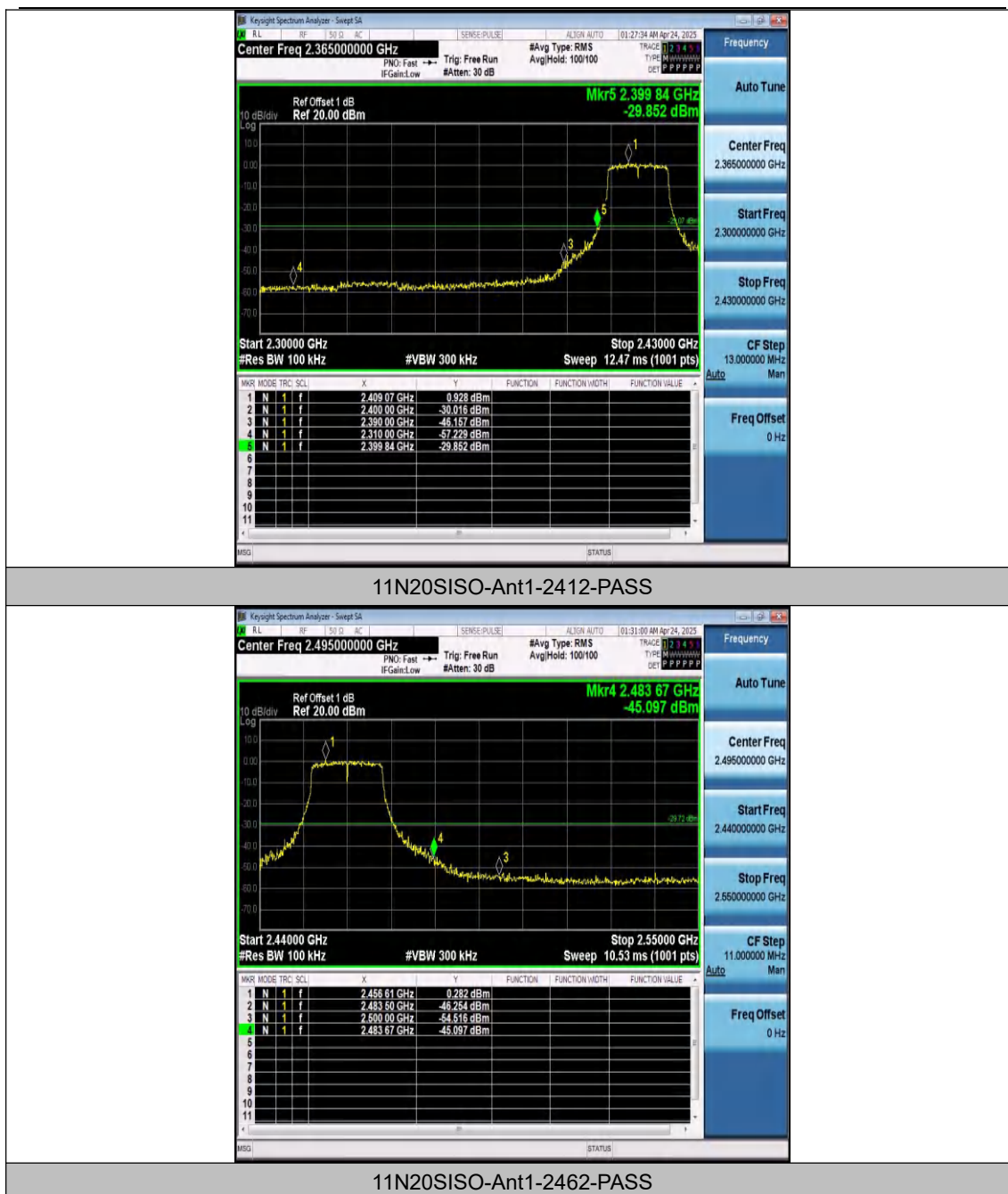
Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'offset' of the Spectrum Analyzer during the test.



Test Graphs







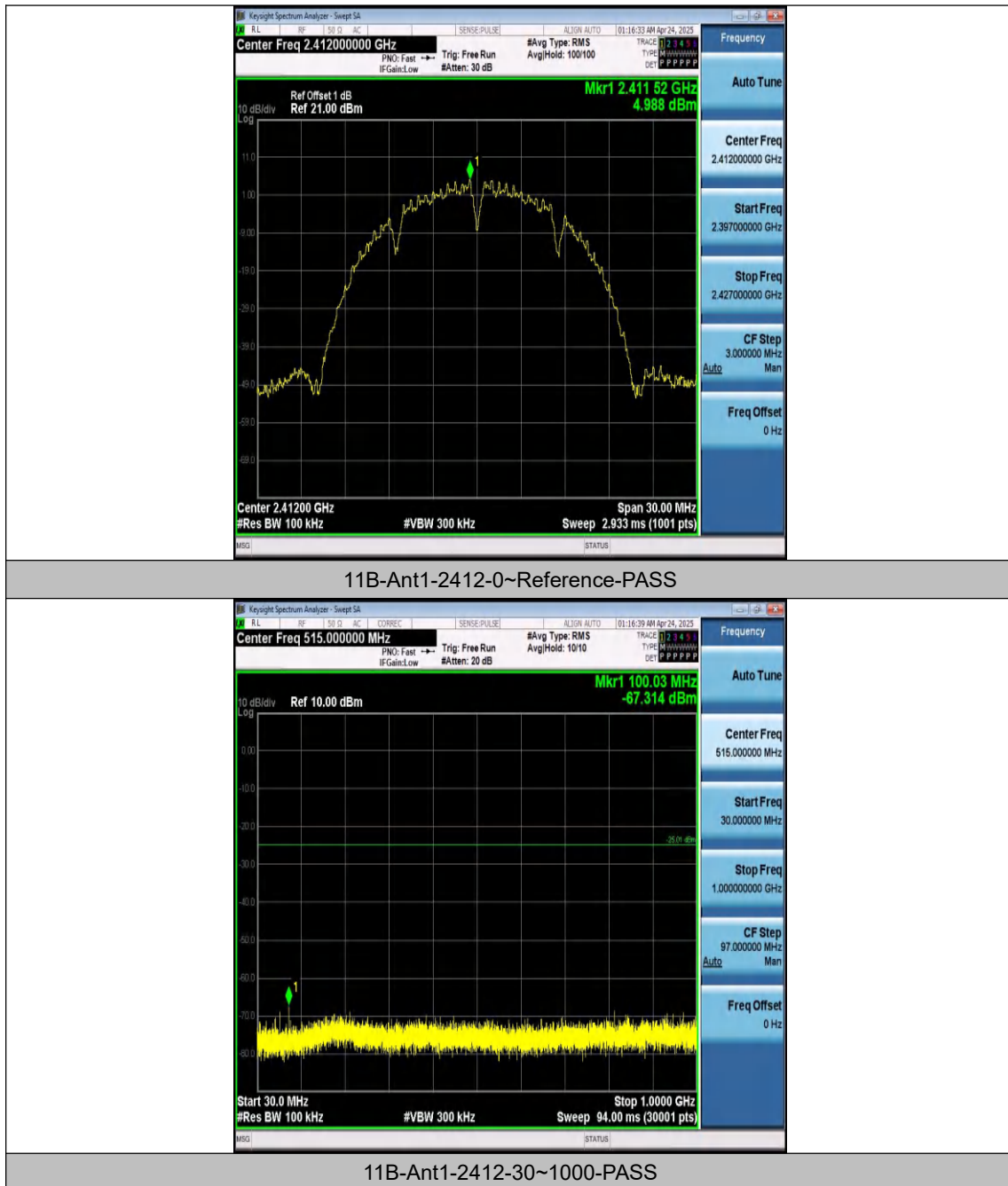
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.99	4.99	---	PASS
11B	Ant1	2412	30~1000	4.99	-67.31	≤-25.01	PASS
11B	Ant1	2412	1000~26500	4.99	-52.72	≤-25.01	PASS
11B	Ant1	2437	0~Reference	5.18	5.18	---	PASS
11B	Ant1	2437	30~1000	5.18	-68.39	≤-24.82	PASS
11B	Ant1	2437	1000~26500	5.18	-53.78	≤-24.82	PASS
11B	Ant1	2462	0~Reference	5.36	5.36	---	PASS
11B	Ant1	2462	30~1000	5.36	-67.42	≤-24.64	PASS
11B	Ant1	2462	1000~26500	5.36	-53.13	≤-24.64	PASS
11G	Ant1	2412	0~Reference	0.40	0.40	---	PASS
11G	Ant1	2412	30~1000	0.40	-66.14	≤-29.6	PASS
11G	Ant1	2412	1000~26500	0.40	-53.11	≤-29.6	PASS
11G	Ant1	2437	0~Reference	0.29	0.29	---	PASS
11G	Ant1	2437	30~1000	0.29	-66.27	≤-29.71	PASS
11G	Ant1	2437	1000~26500	0.29	-53.11	≤-29.71	PASS
11G	Ant1	2462	0~Reference	0.55	0.55	---	PASS
11G	Ant1	2462	30~1000	0.55	-67.06	≤-29.45	PASS
11G	Ant1	2462	1000~26500	0.55	-53.27	≤-29.45	PASS
11N20SISO	Ant1	2412	0~Reference	1.00	1.00	---	PASS
11N20SISO	Ant1	2412	30~1000	1.00	-66.97	≤-29	PASS
11N20SISO	Ant1	2412	1000~26500	1.00	-52.85	≤-29	PASS
11N20SISO	Ant1	2437	0~Reference	0.66	0.66	---	PASS
11N20SISO	Ant1	2437	30~1000	0.66	-67.23	≤-29.34	PASS
11N20SISO	Ant1	2437	1000~26500	0.66	-53.75	≤-29.34	PASS
11N20SISO	Ant1	2462	0~Reference	0.44	0.44	---	PASS
11N20SISO	Ant1	2462	30~1000	0.44	-65.84	≤-29.56	PASS
11N20SISO	Ant1	2462	1000~26500	0.44	-53.73	≤-29.56	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.

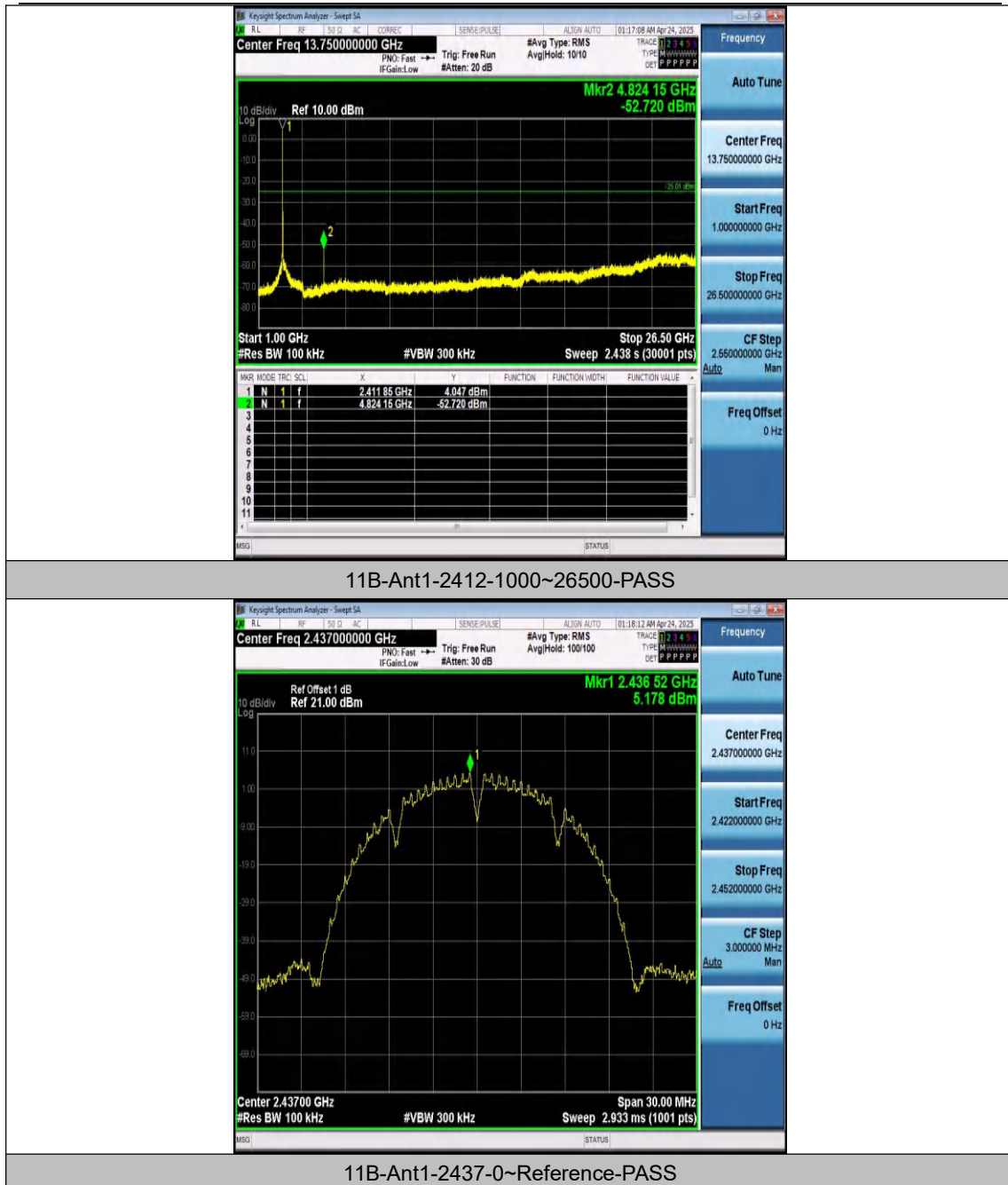
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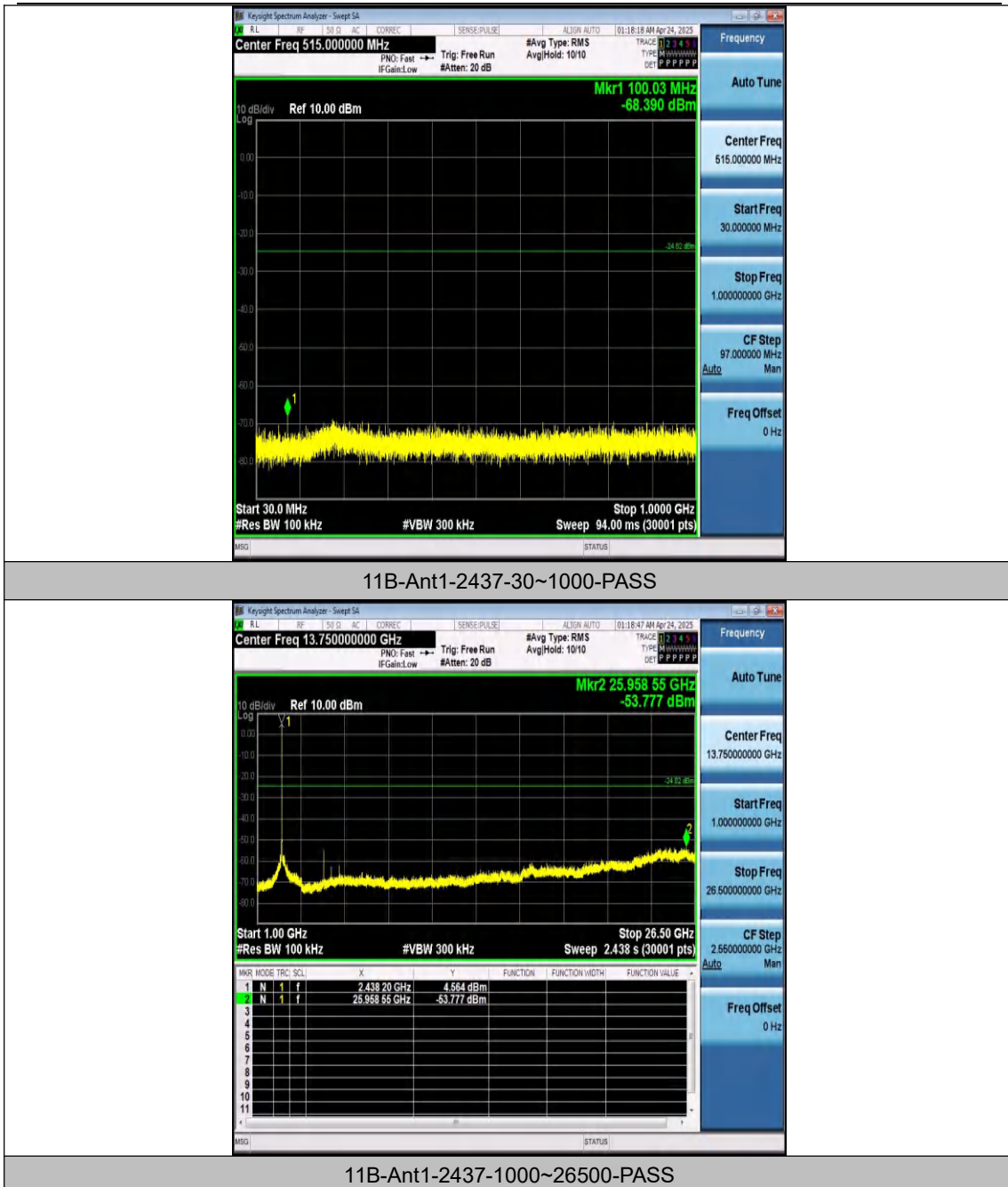


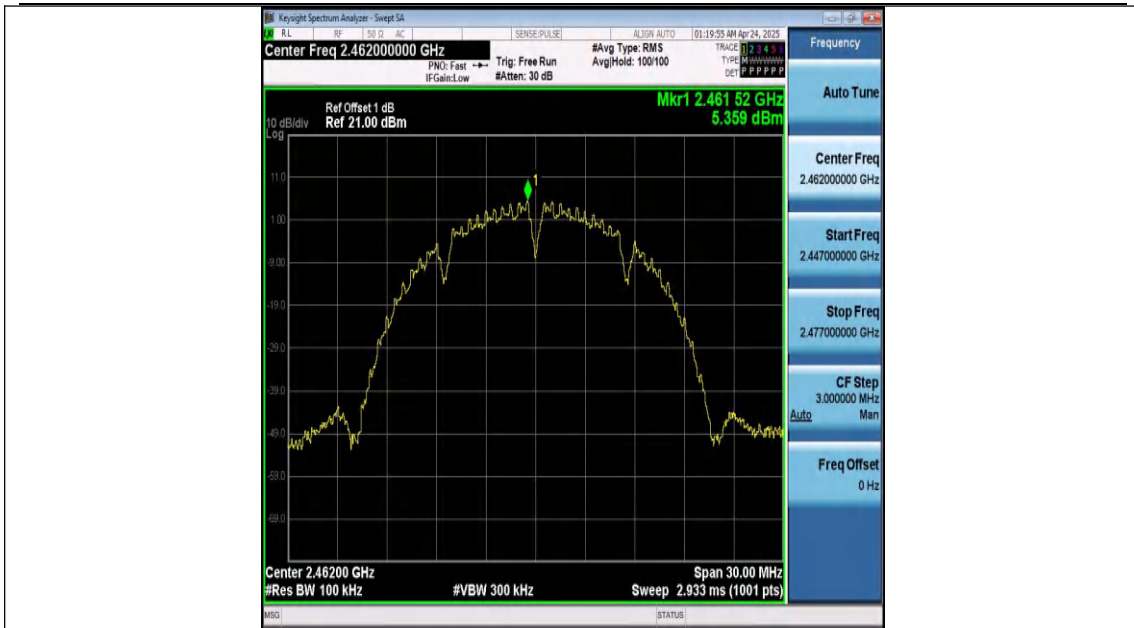
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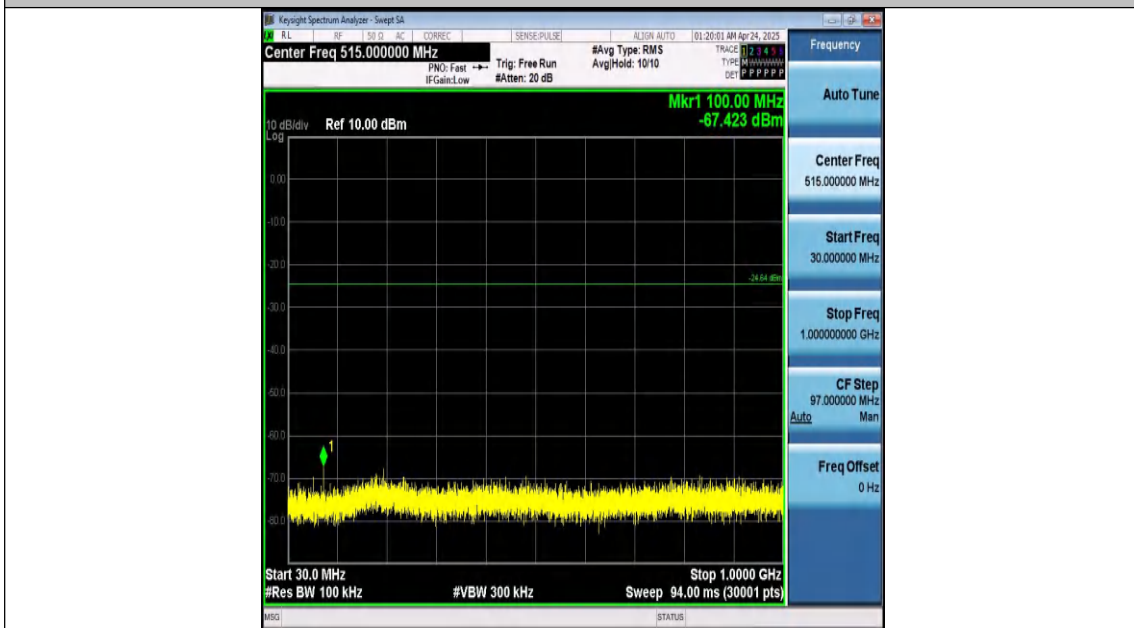
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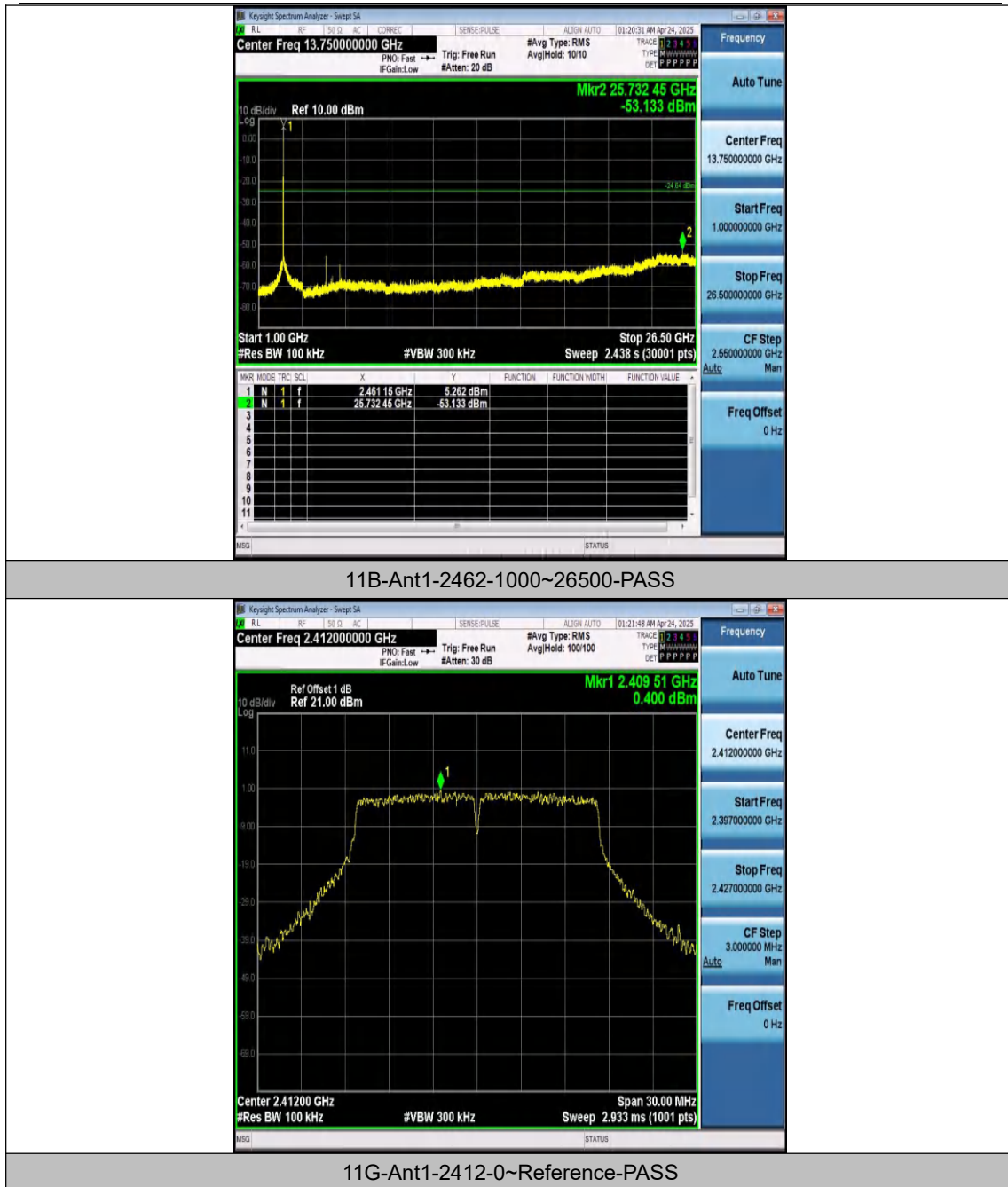




11B-Ant1-2462-0~Reference-PASS



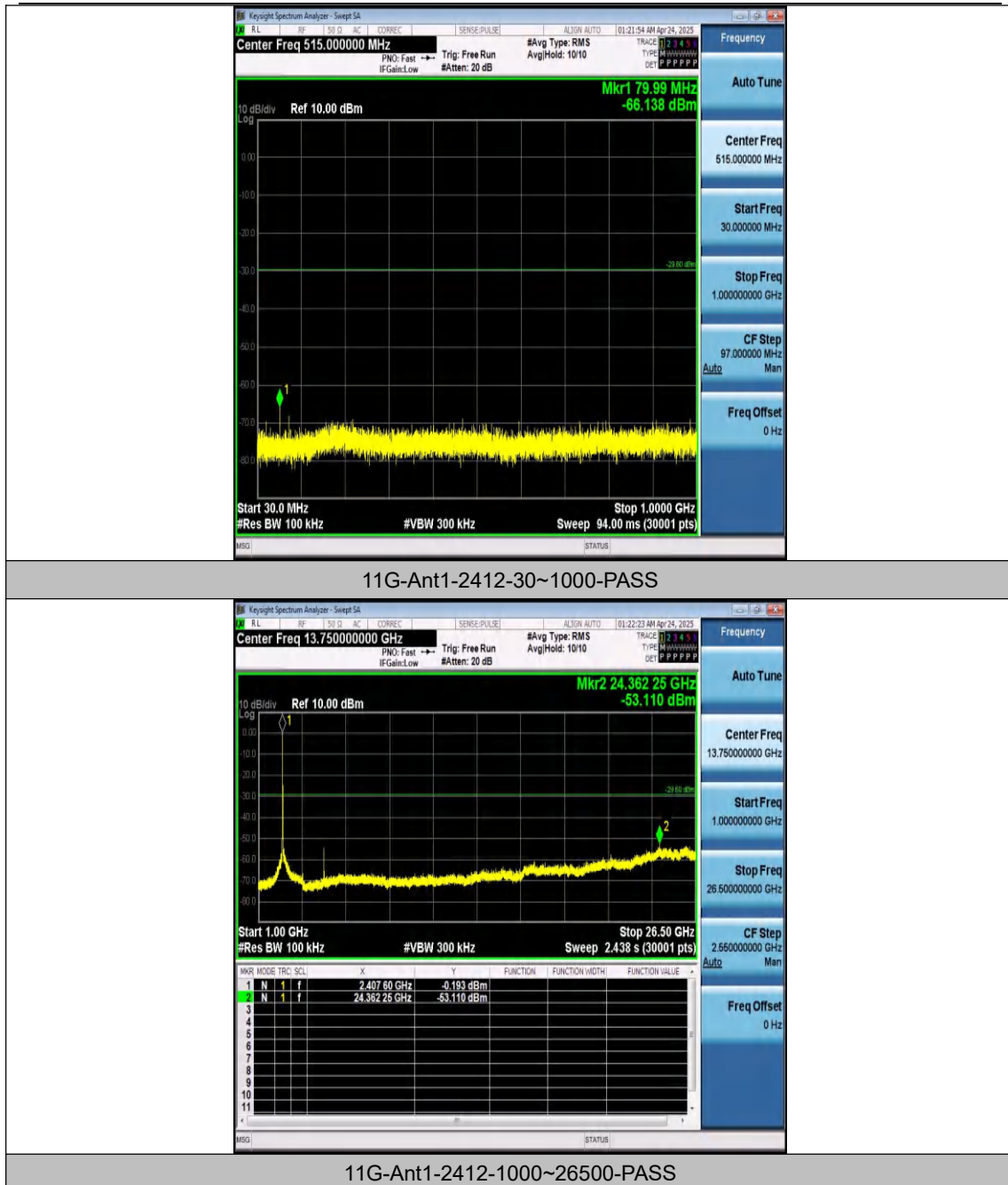
11B-Ant1-2462-30~1000-PASS

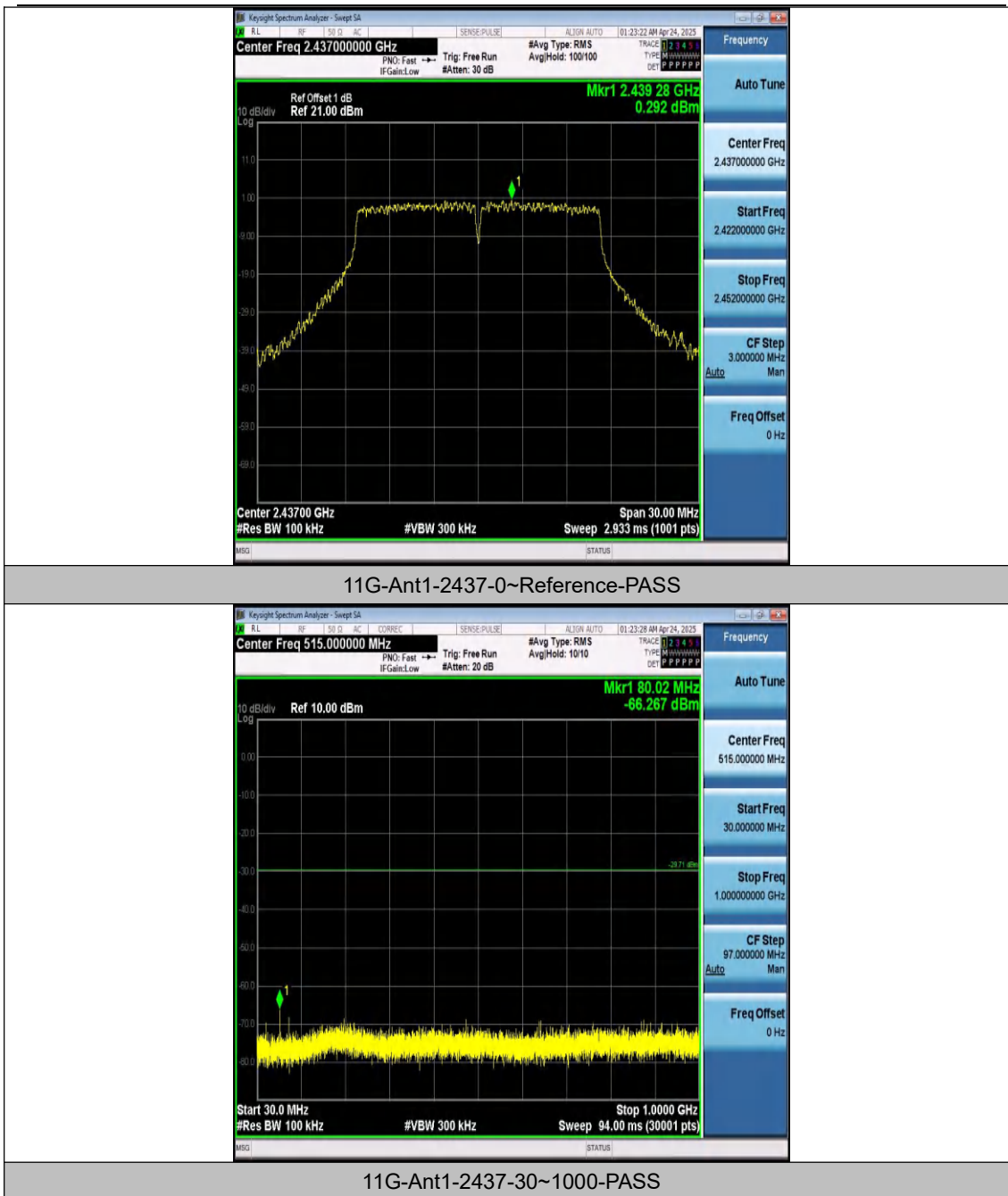


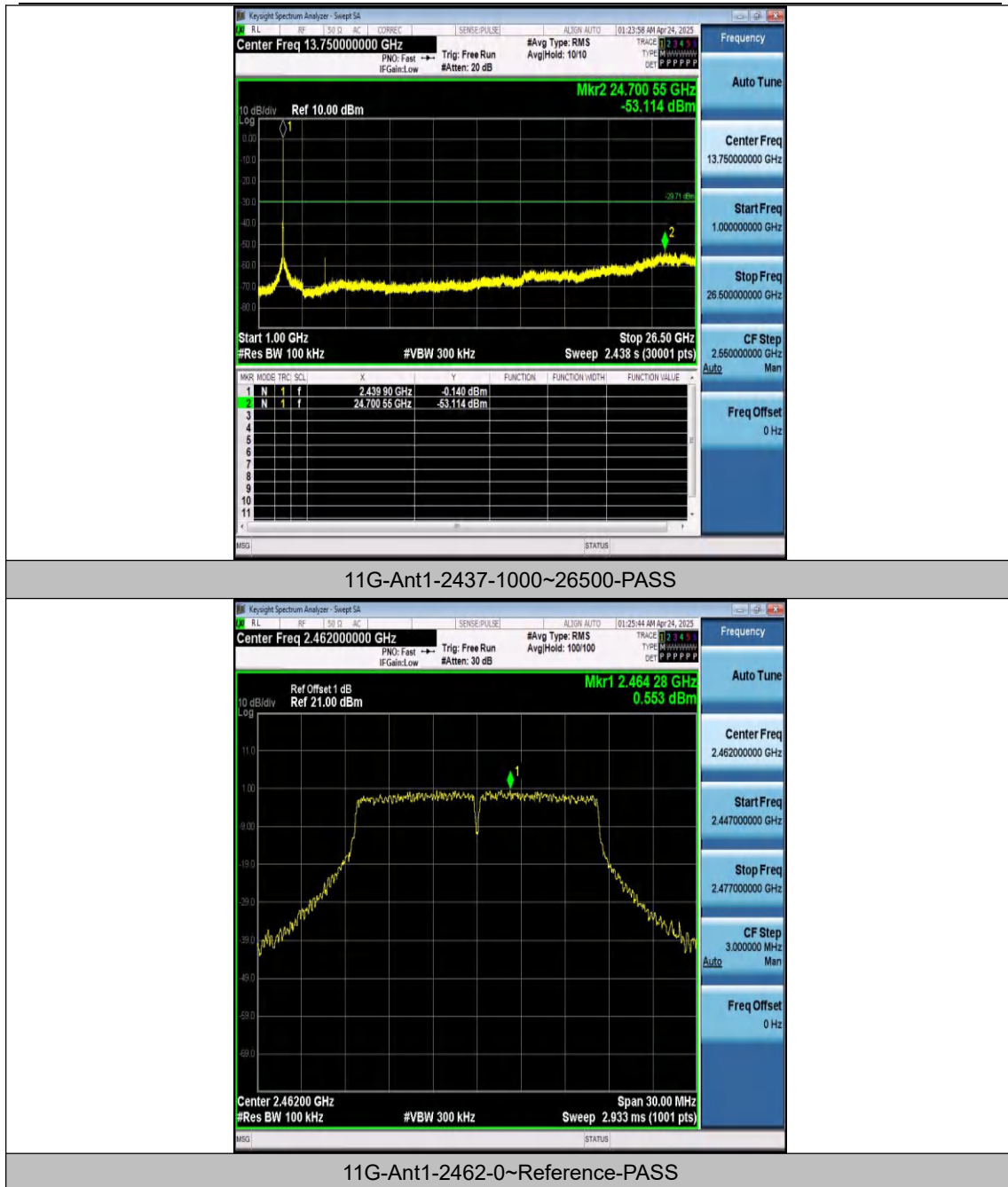
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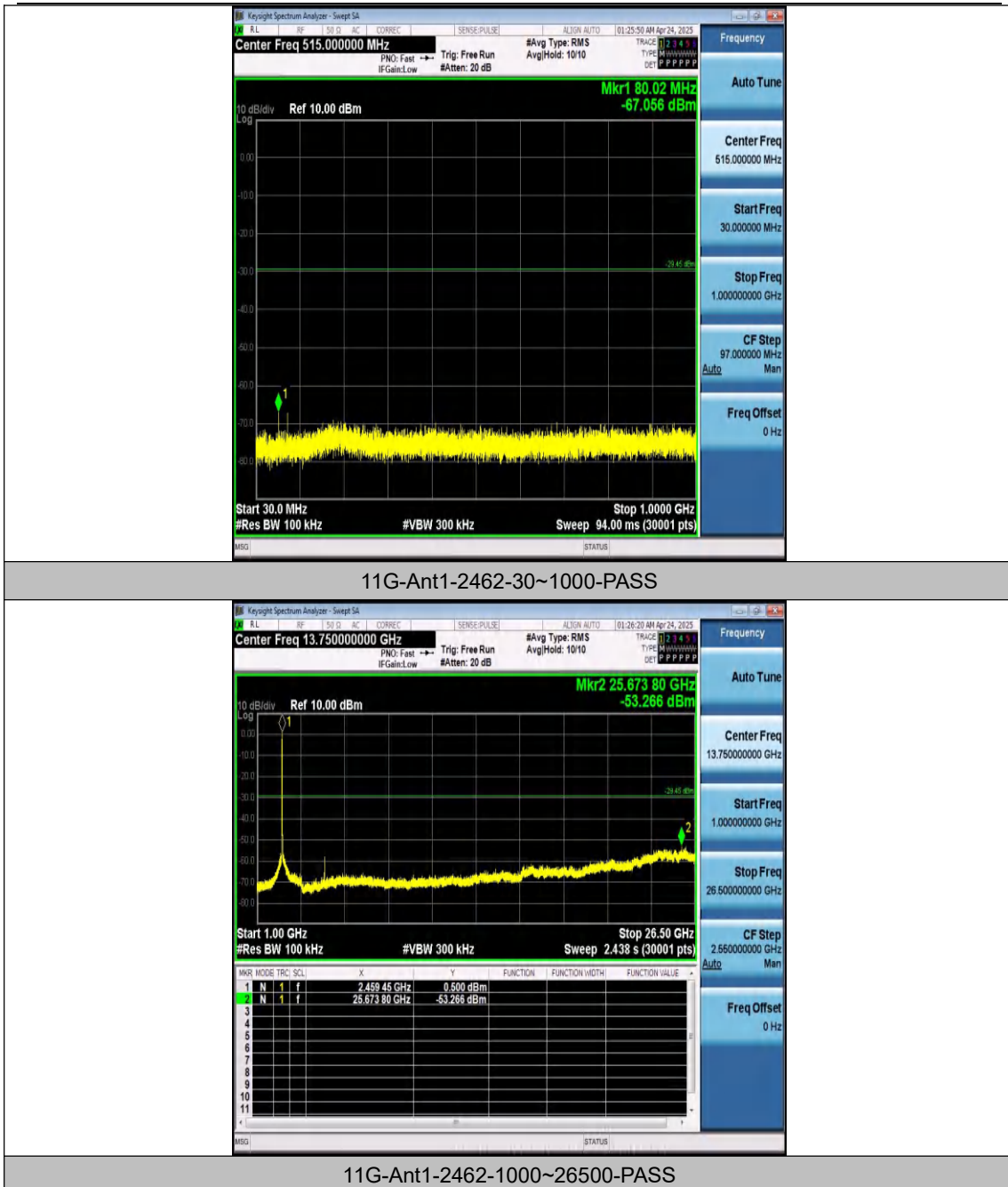
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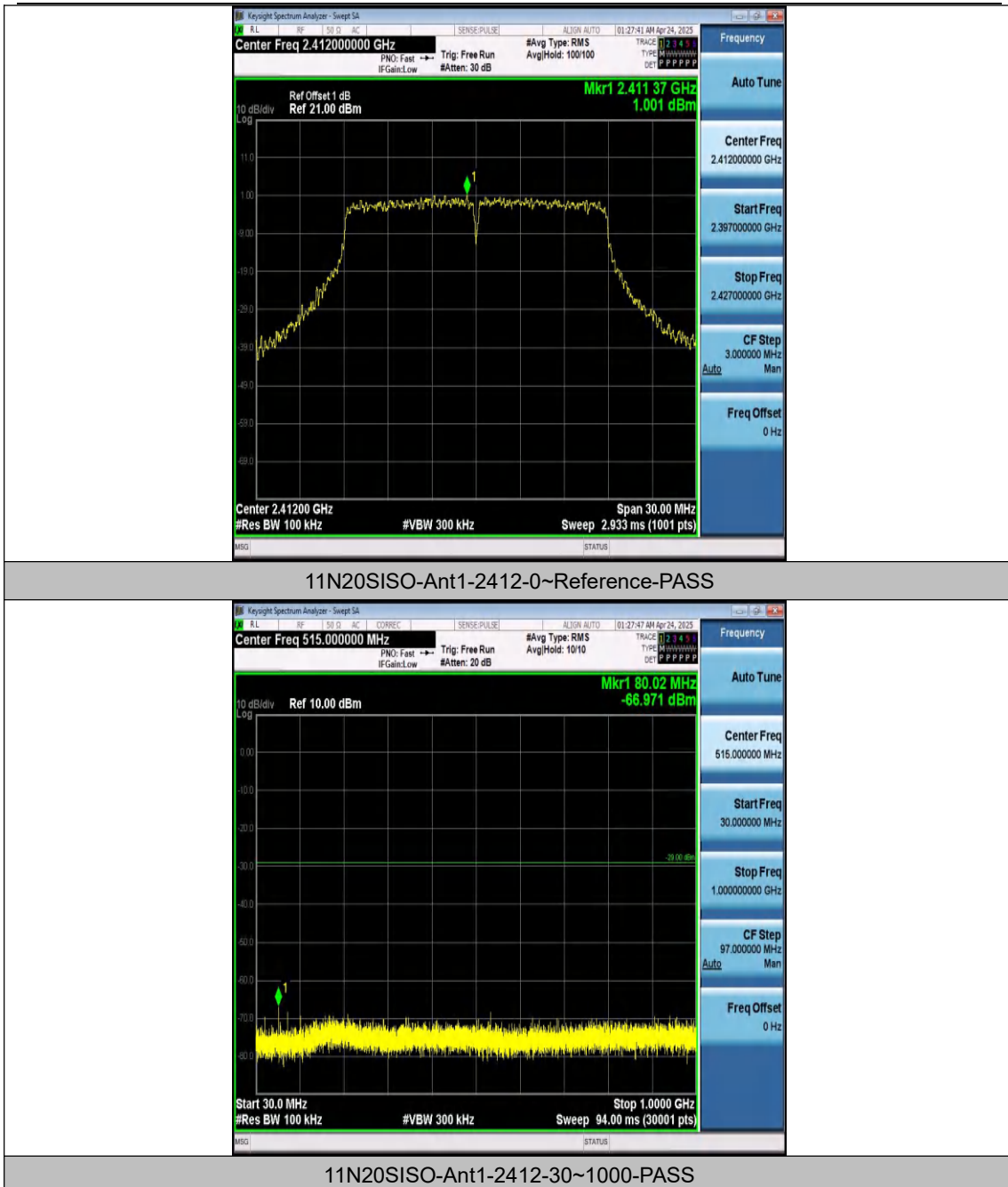
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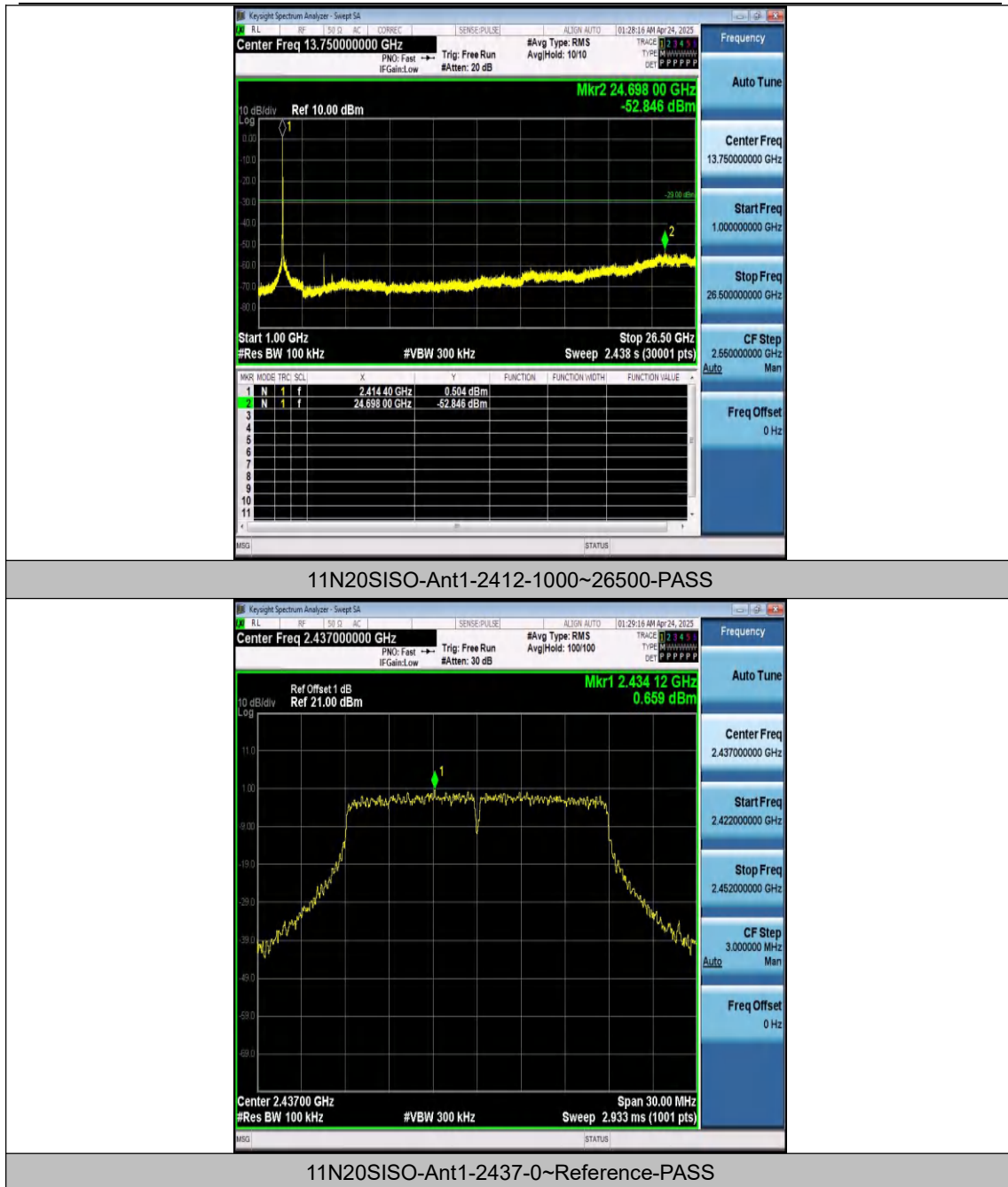


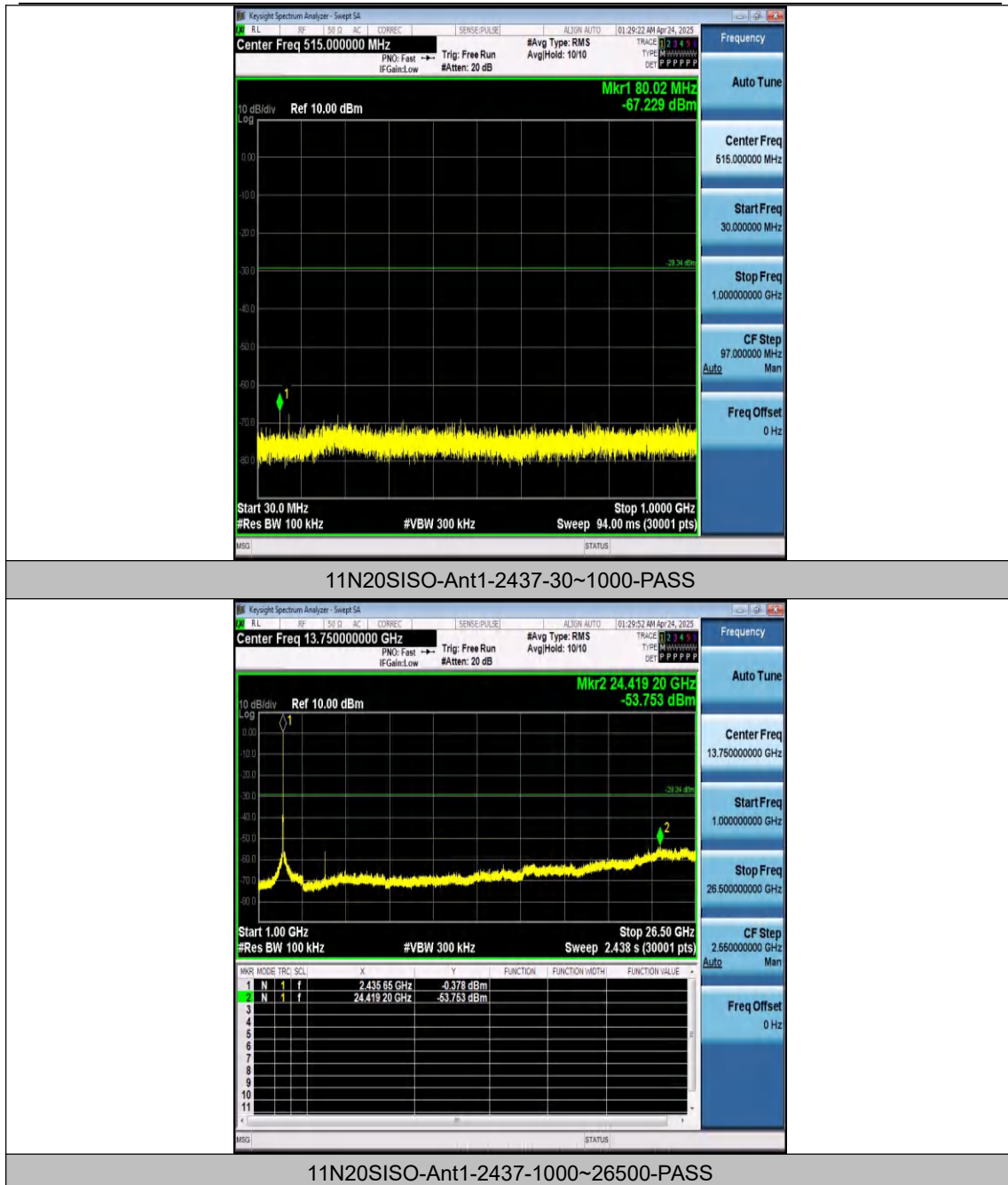


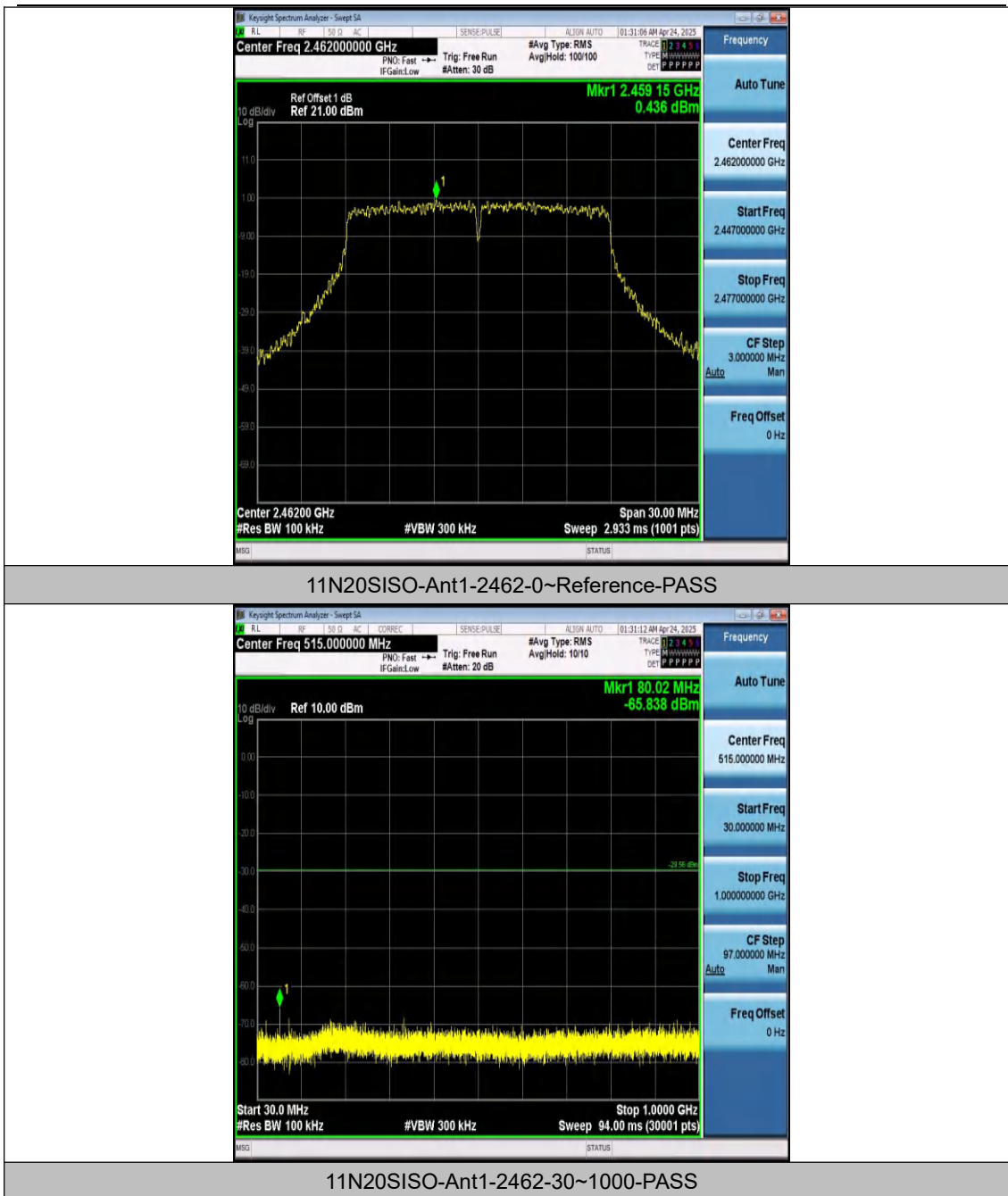


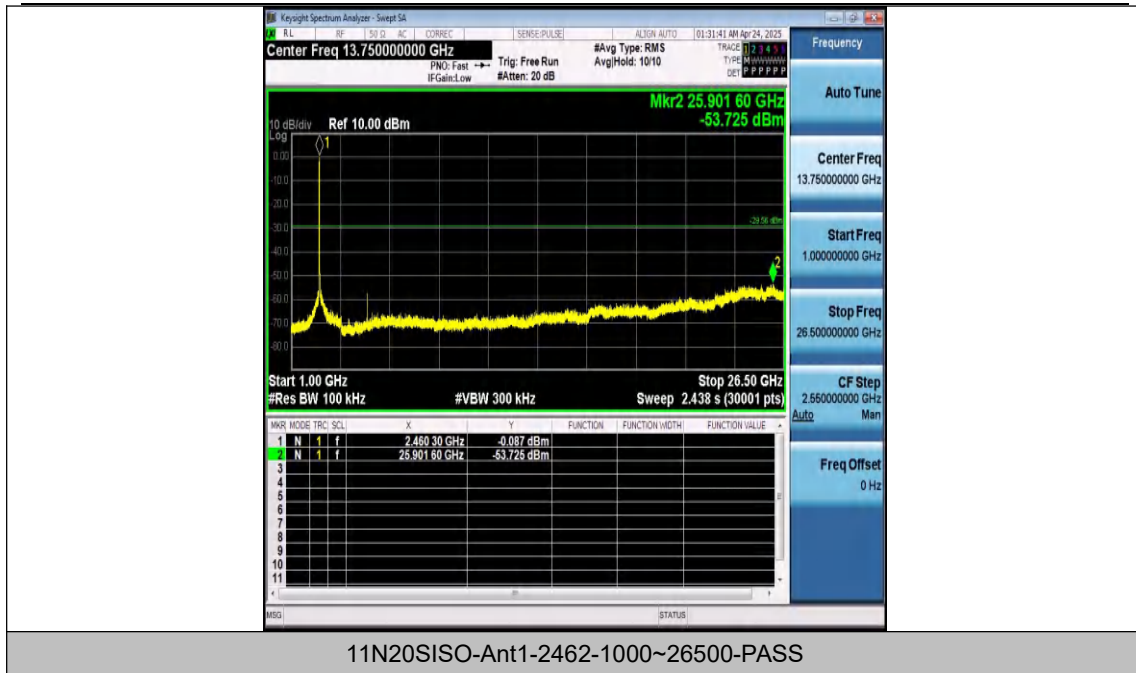












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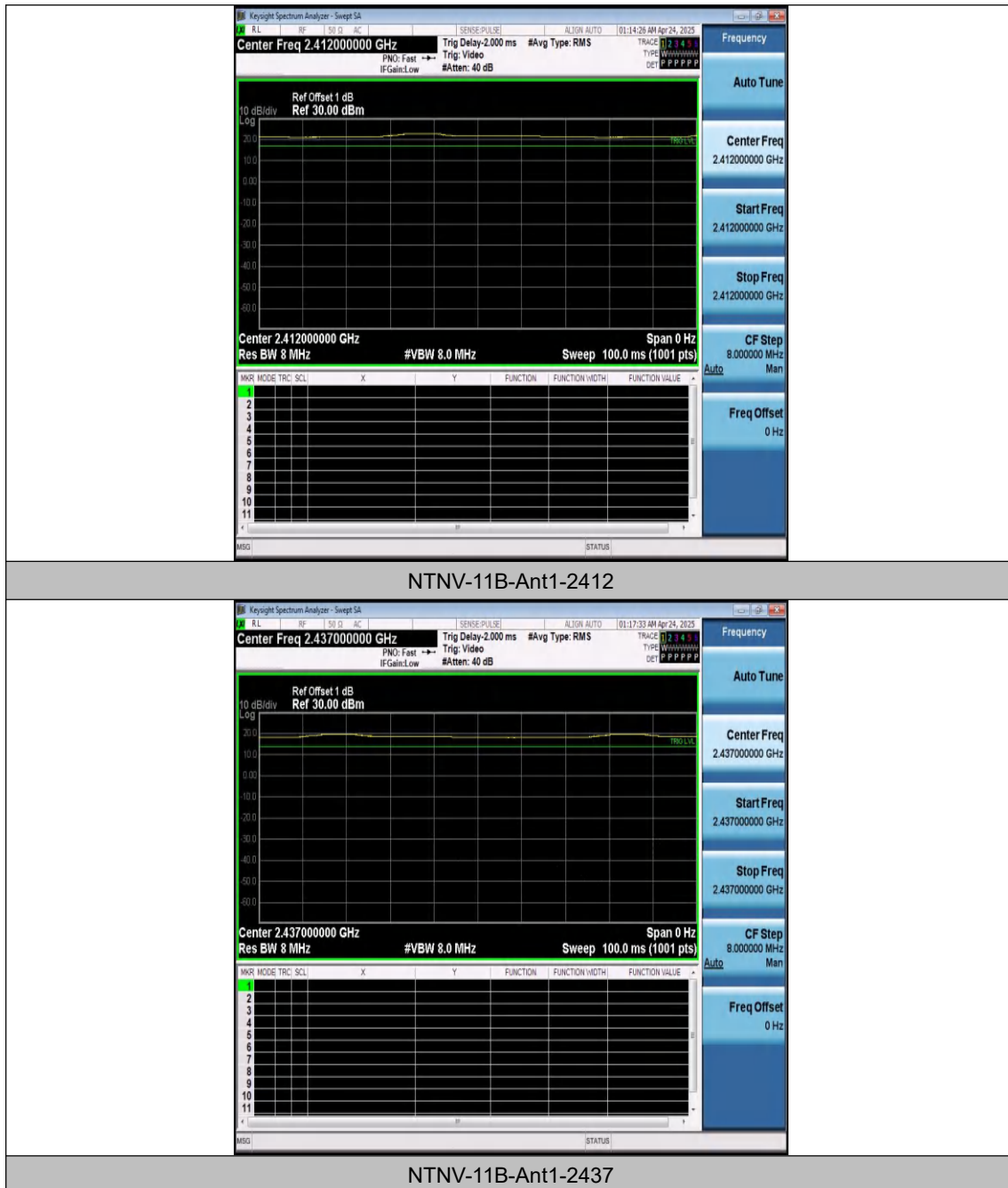
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Appendix G: Duty Cycle

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

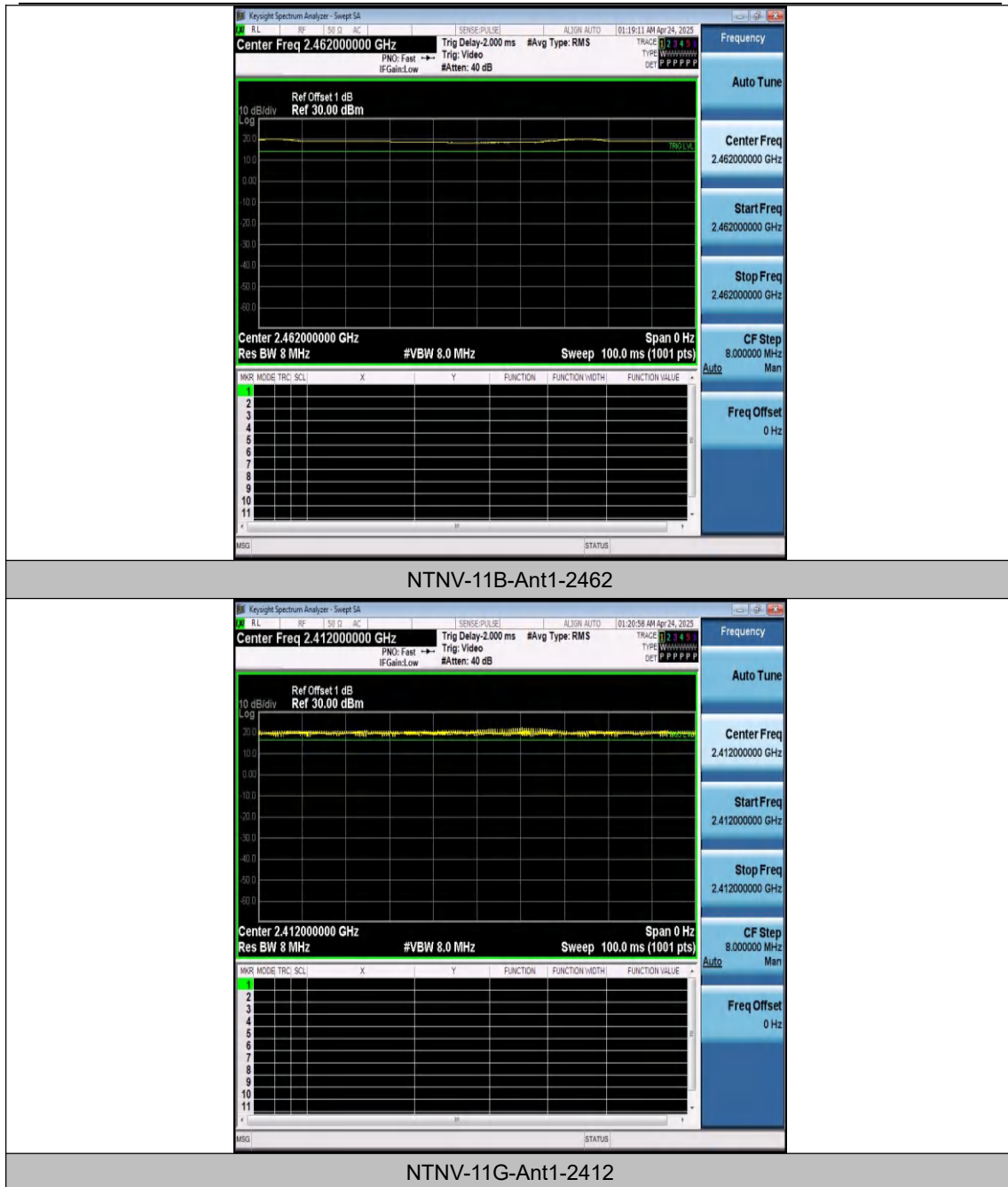
Test Graphs

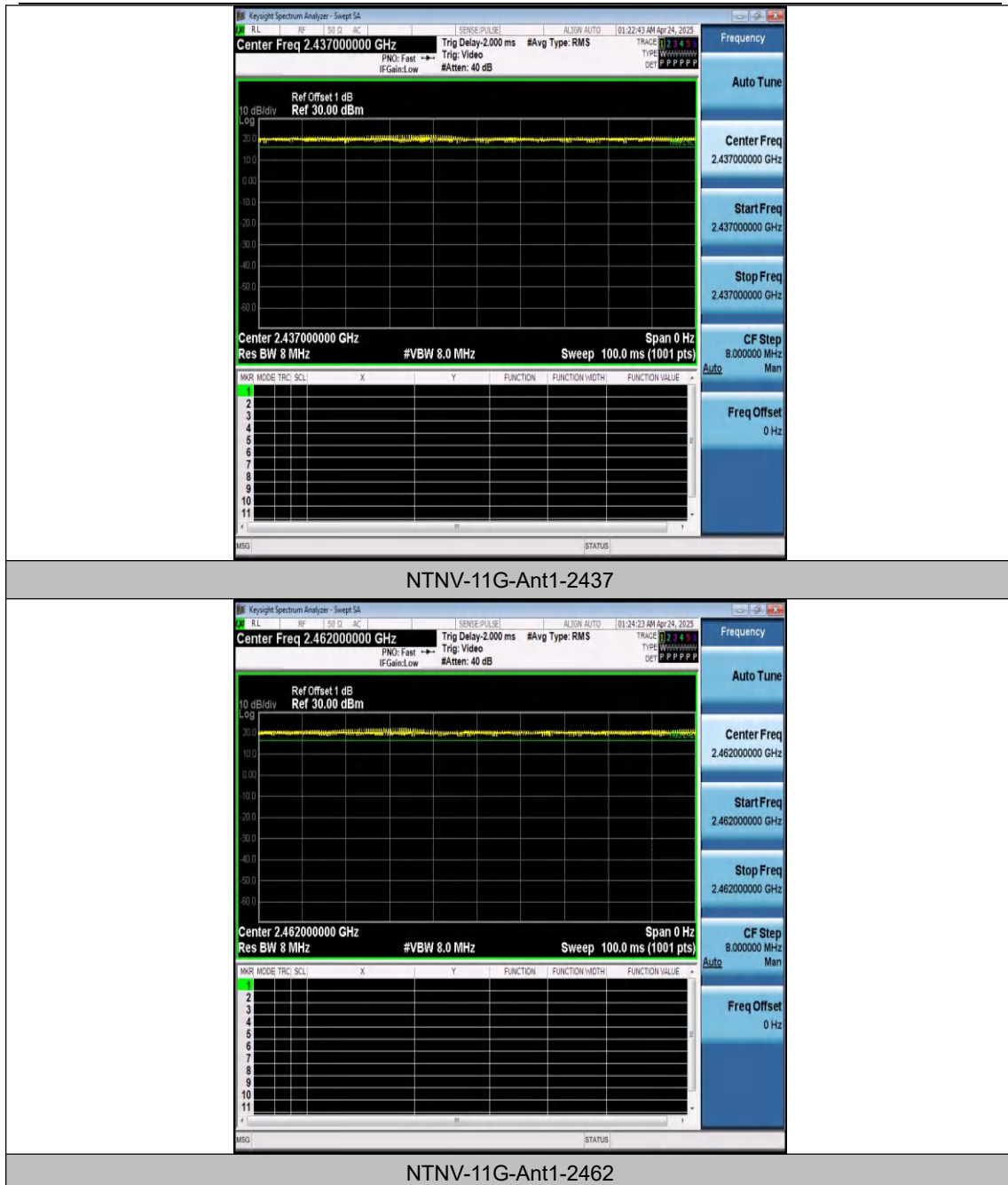


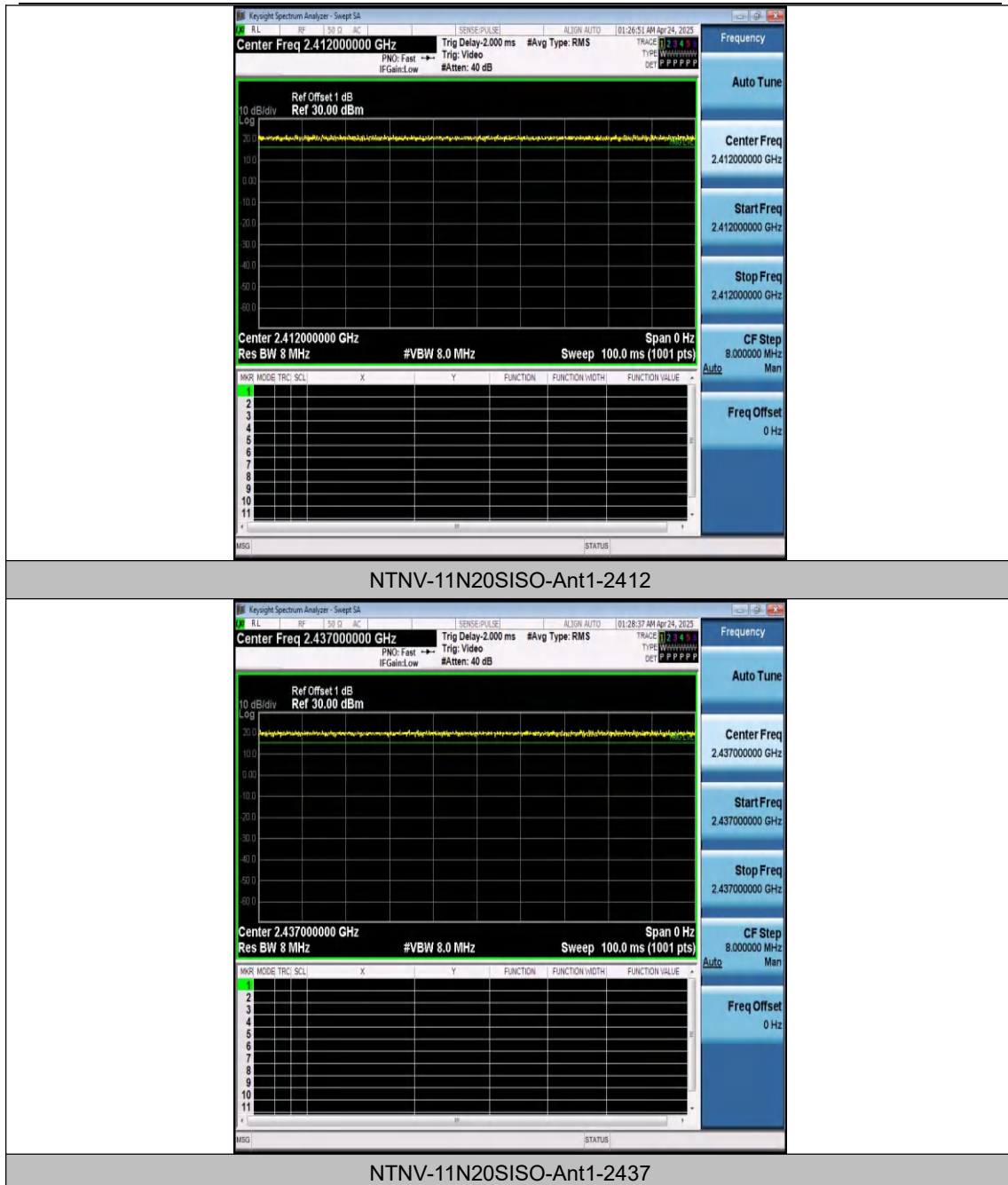
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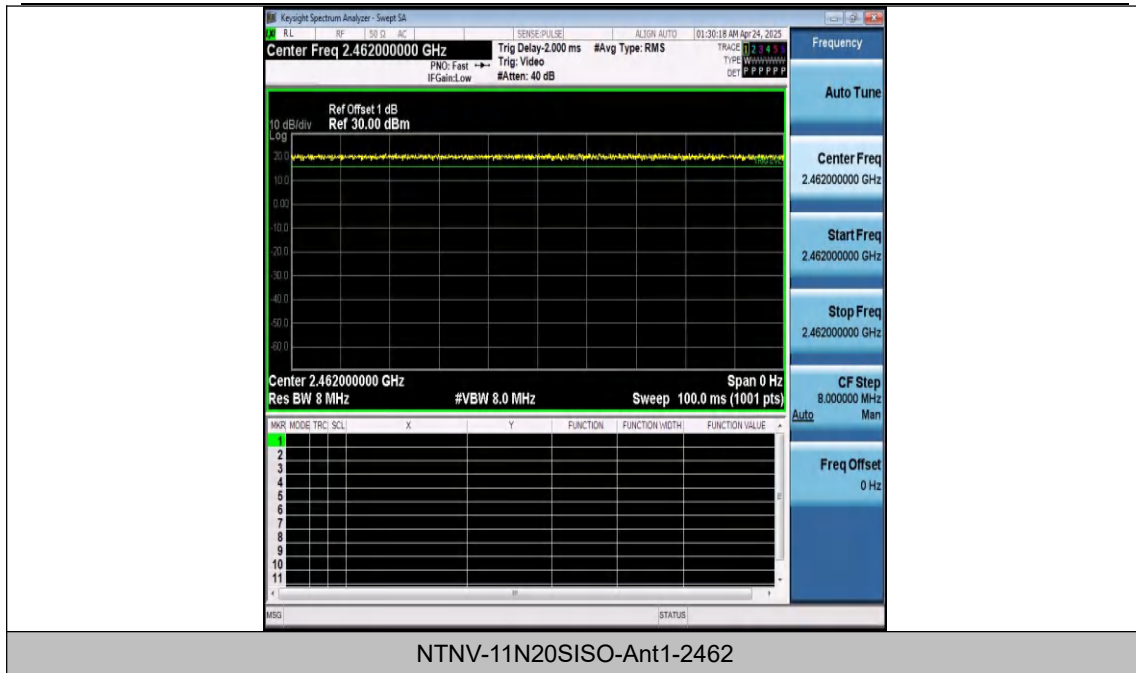
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