

Appendix Test Data

Report No.:	18220WC40097103	Test Sample No.:	1-2-2
Start Test Date:	2024.5.17	Finish Test Date:	2024.6.13
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.7℃	Relative Humidity:	47%
Pressure:	101kPa		

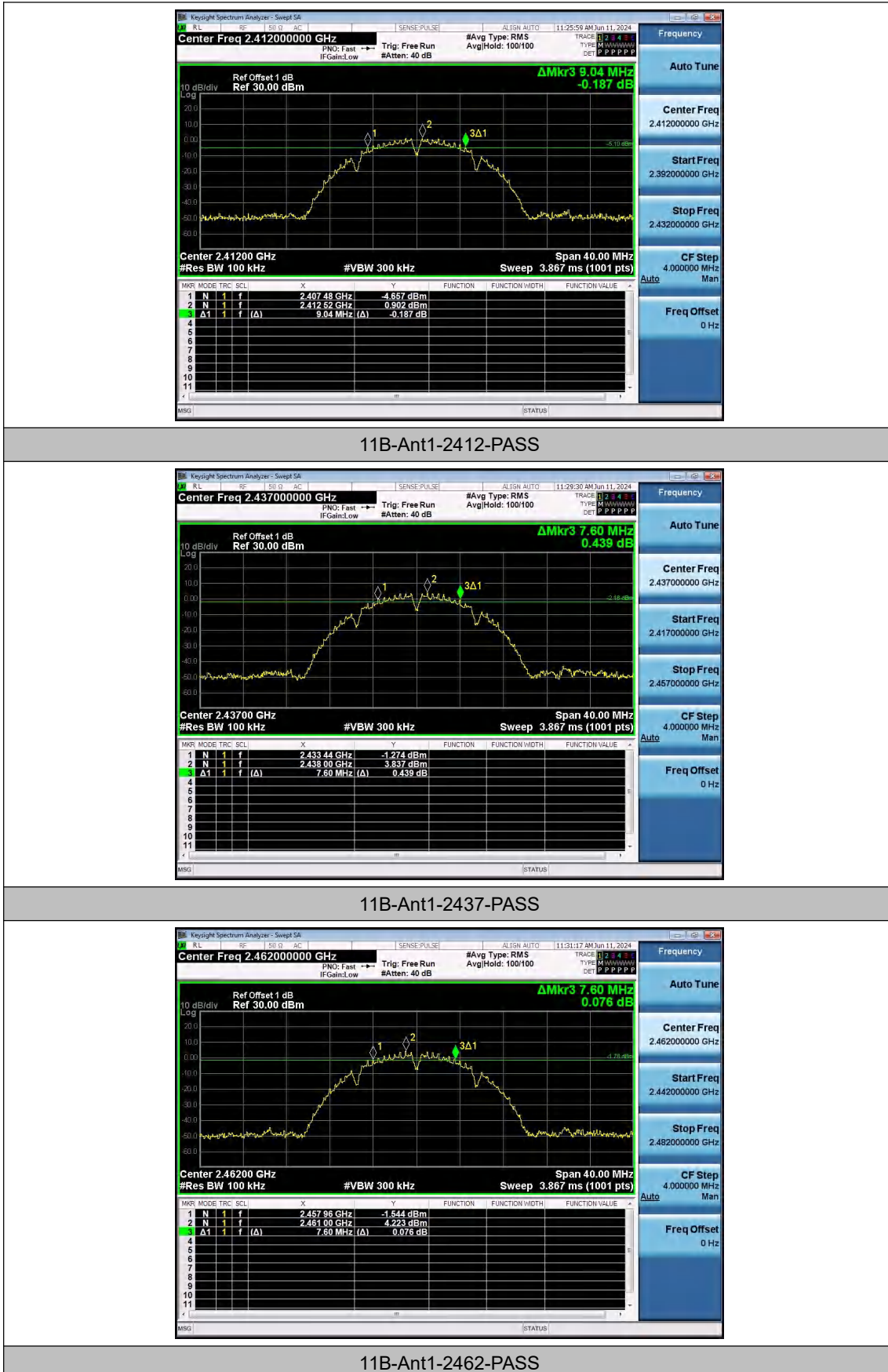
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
11B	Ant1	2437	7.600	2433.440	2441.040	0.5	PASS
11B	Ant1	2462	7.600	2457.960	2465.560	0.5	PASS
11G	Ant1	2412	14.480	2405.680	2420.160	0.5	PASS
11G	Ant1	2437	15.040	2429.480	2444.520	0.5	PASS
11G	Ant1	2462	14.080	2454.440	2468.520	0.5	PASS
11N20SISO	Ant1	2412	16.040	2404.760	2420.800	0.5	PASS
11N20SISO	Ant1	2437	16.880	2428.640	2445.520	0.5	PASS
11N20SISO	Ant1	2462	15.040	2454.480	2469.520	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
11N40SISO	Ant1	2437	35.280	2419.480	2454.760	0.5	PASS
11N40SISO	Ant1	2452	32.560	2434.480	2467.040	0.5	PASS



Test Graphs



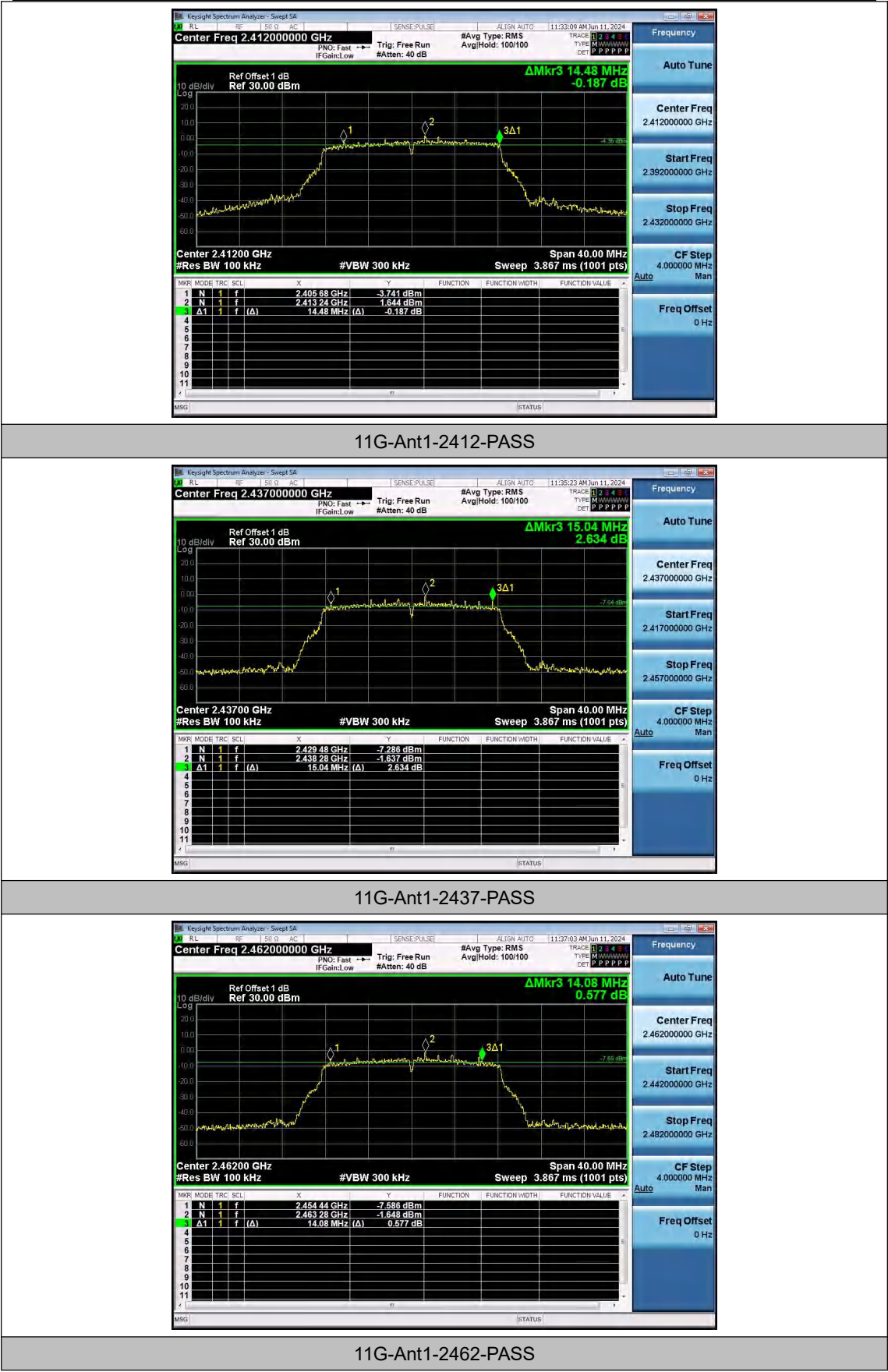
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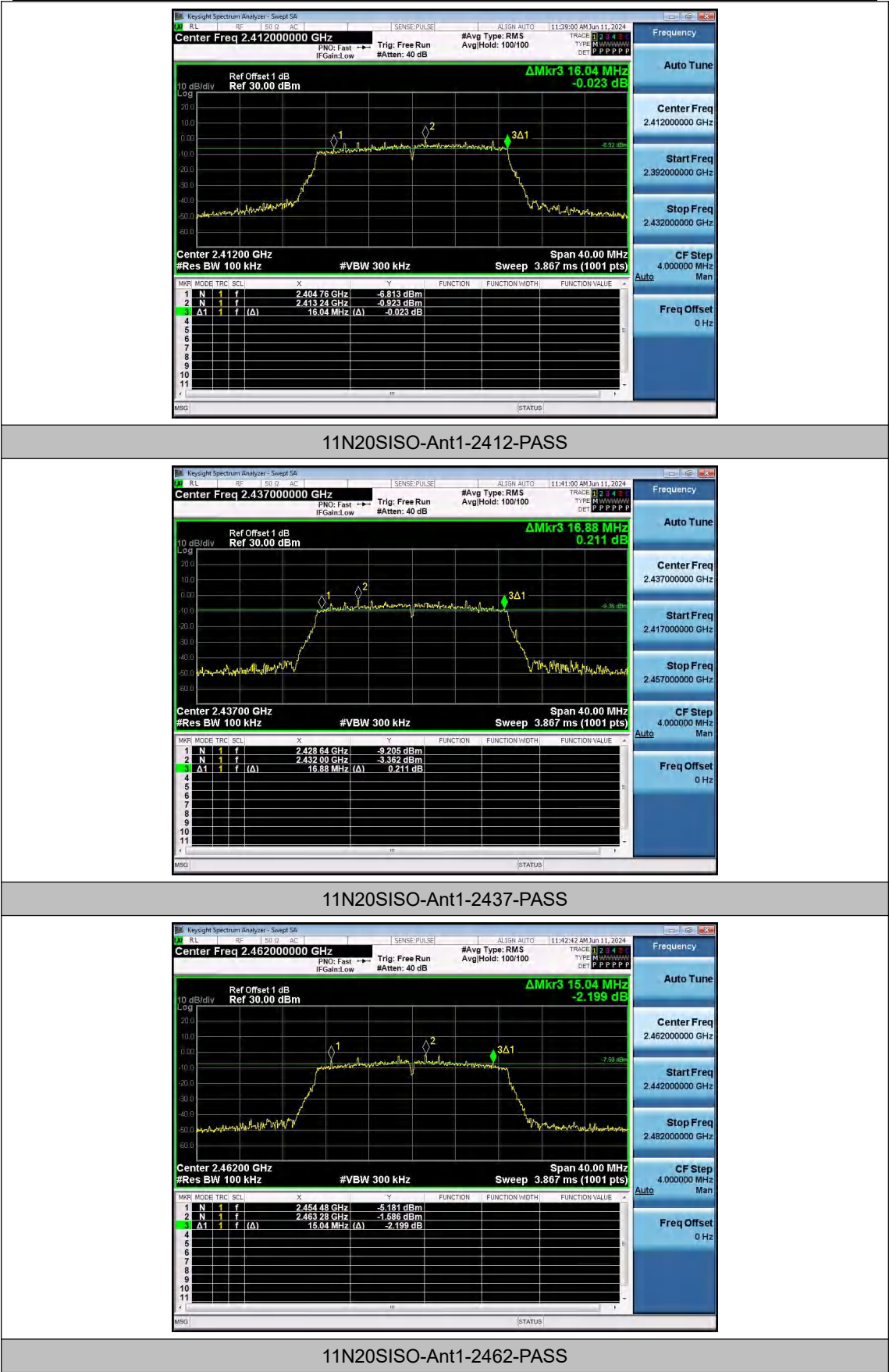
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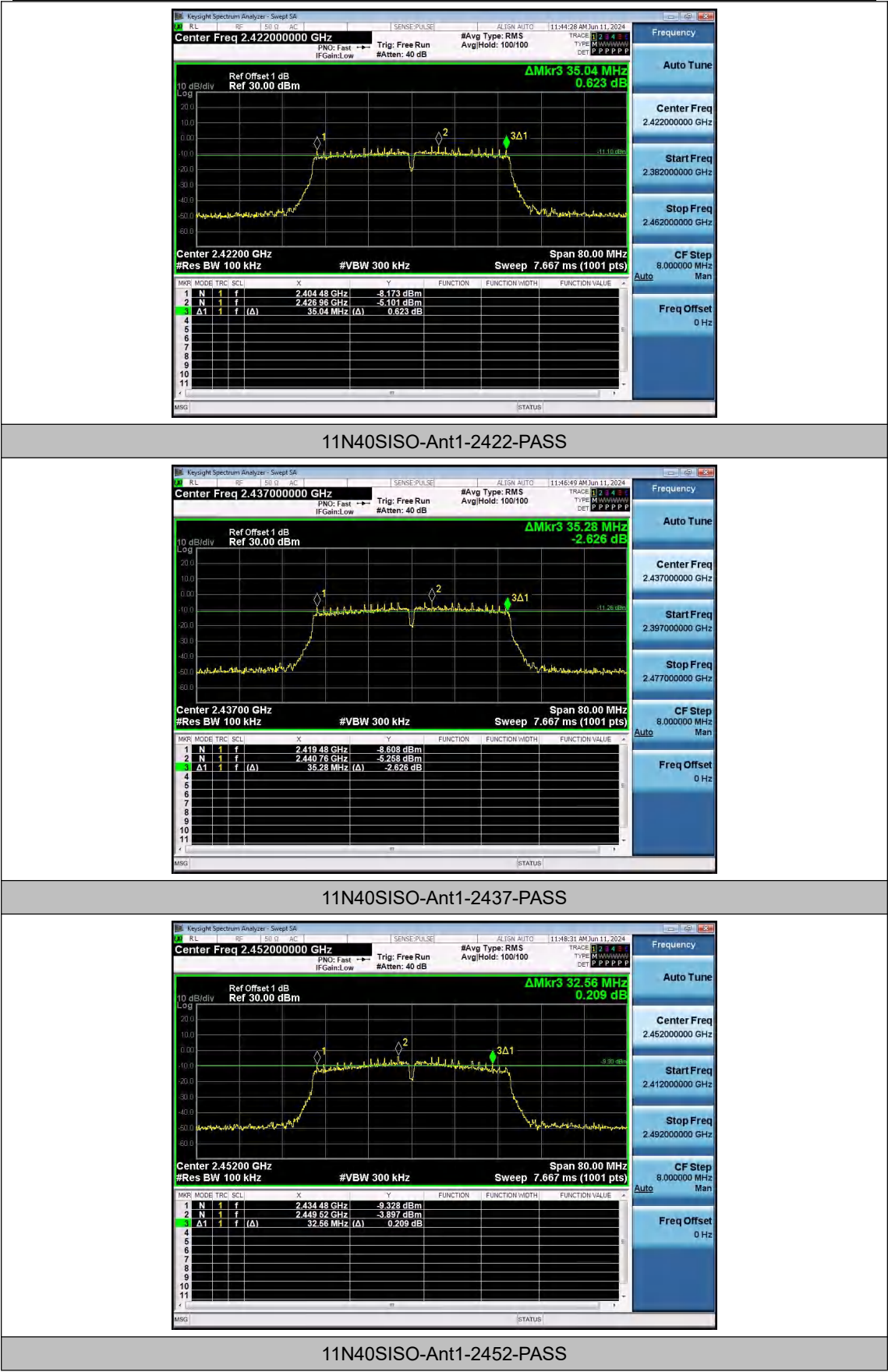


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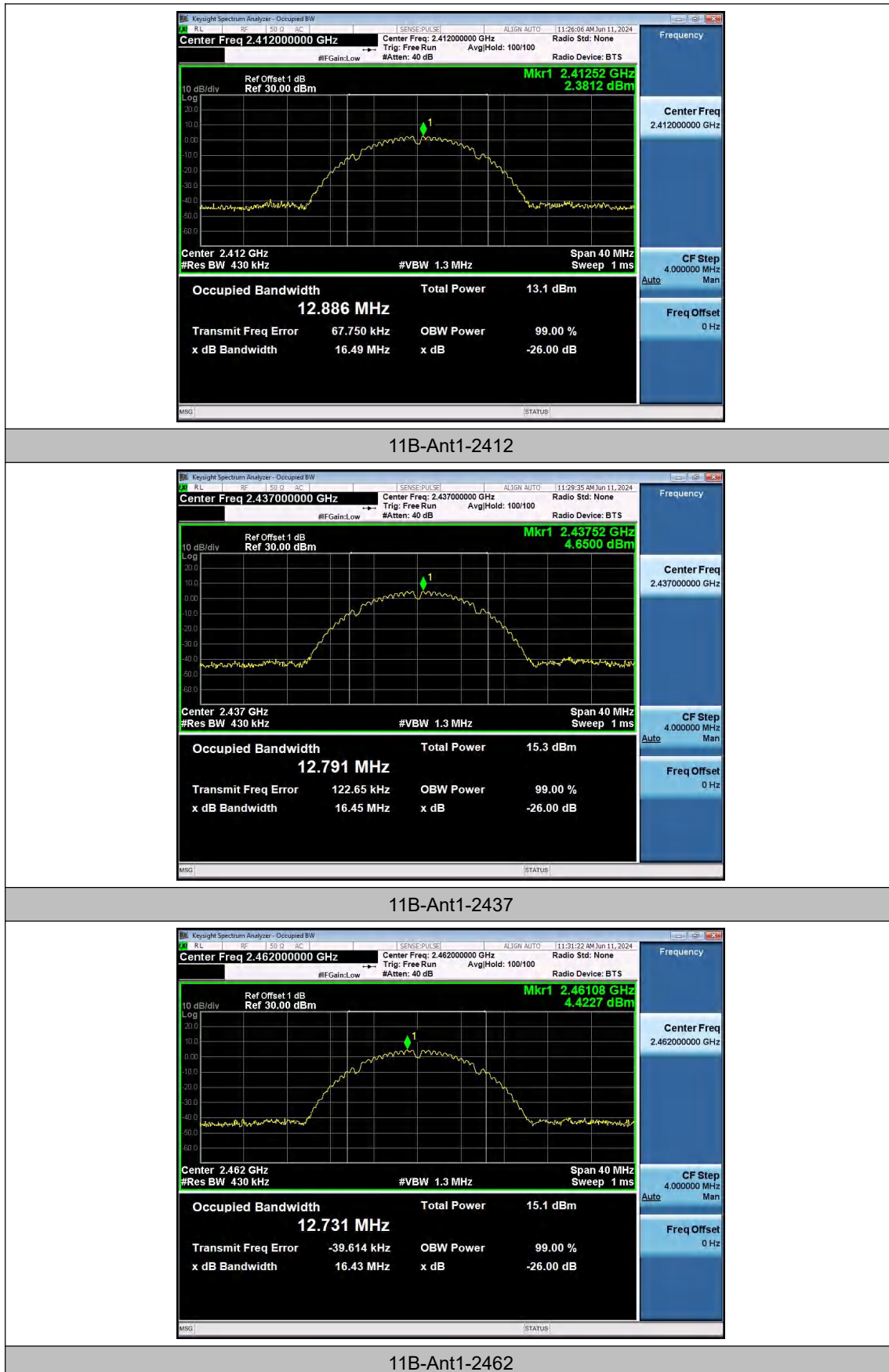
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.886	2405.6248	2418.5108	---	---
11B	Ant1	2437	12.791	2430.7272	2443.5182	---	---
11B	Ant1	2462	12.731	2455.5949	2468.3259	---	---
11G	Ant1	2412	16.871	2403.6958	2420.5668	---	---
11G	Ant1	2437	16.791	2428.6269	2445.4179	---	---
11G	Ant1	2462	16.701	2453.6735	2470.3745	---	---
11N20SISO	Ant1	2412	17.878	2403.2205	2421.0985	---	---
11N20SISO	Ant1	2437	17.854	2428.1177	2445.9717	---	---
11N20SISO	Ant1	2462	17.797	2453.1171	2470.9141	---	---
11N40SISO	Ant1	2422	36.309	2403.9446	2440.2536	---	---
11N40SISO	Ant1	2437	36.218	2418.9510	2455.1690	---	---
11N40SISO	Ant1	2452	35.843	2434.1429	2469.9859	---	---



Test Graphs



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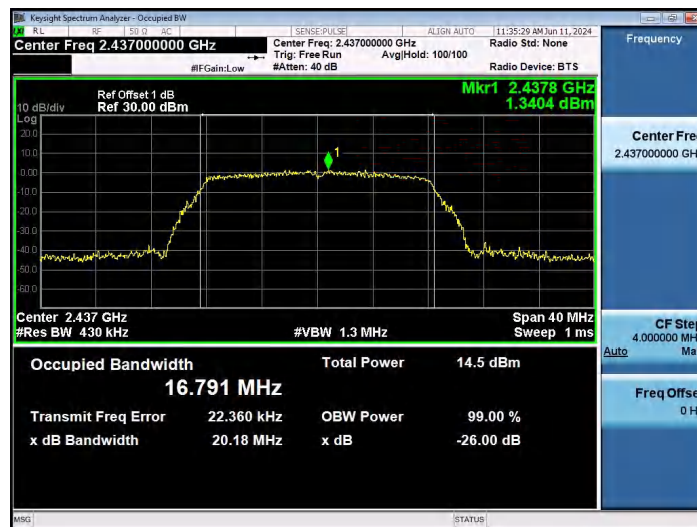
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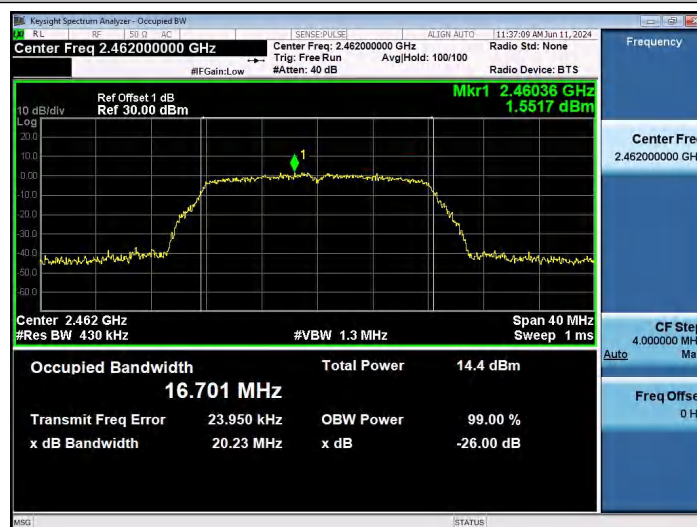




11G-Ant1-2412

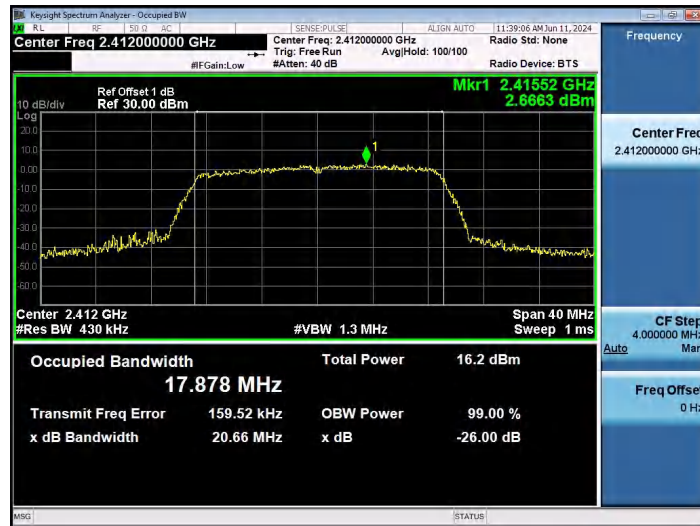


11G-Ant1-2437

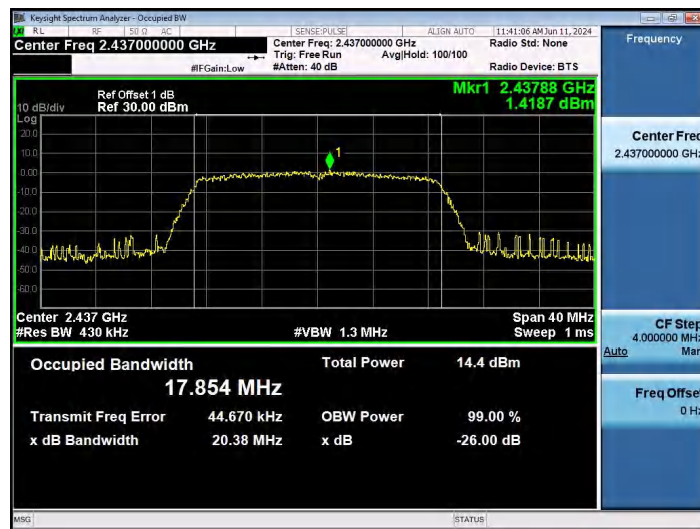


11G-Ant1-2462

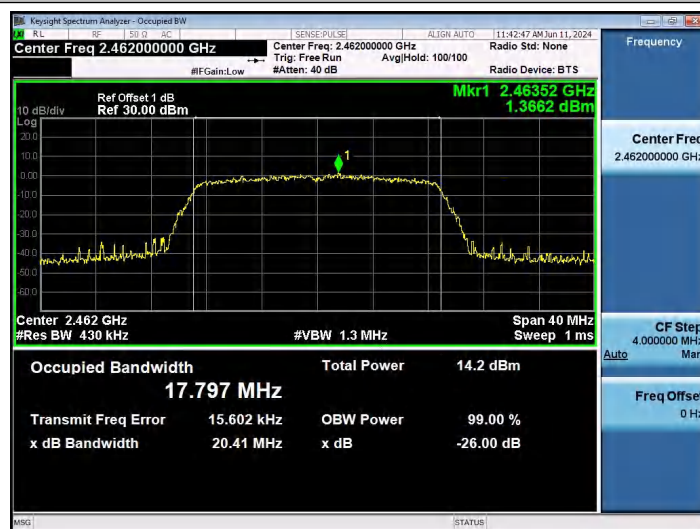




11N20SISO-Ant1-2412

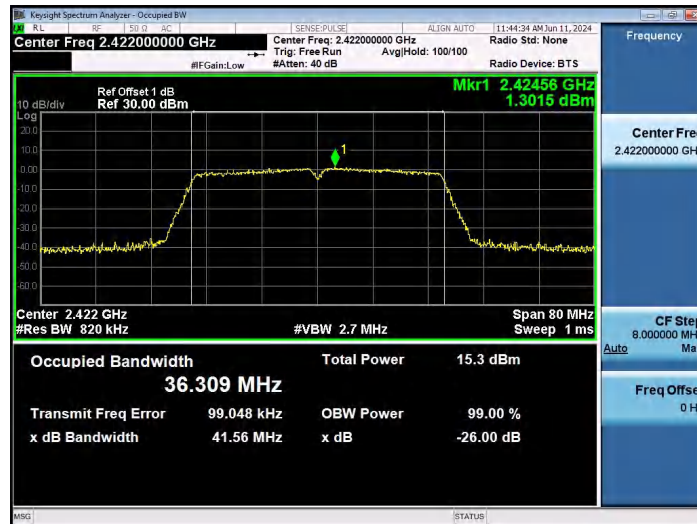


11N20SISO-Ant1-2437

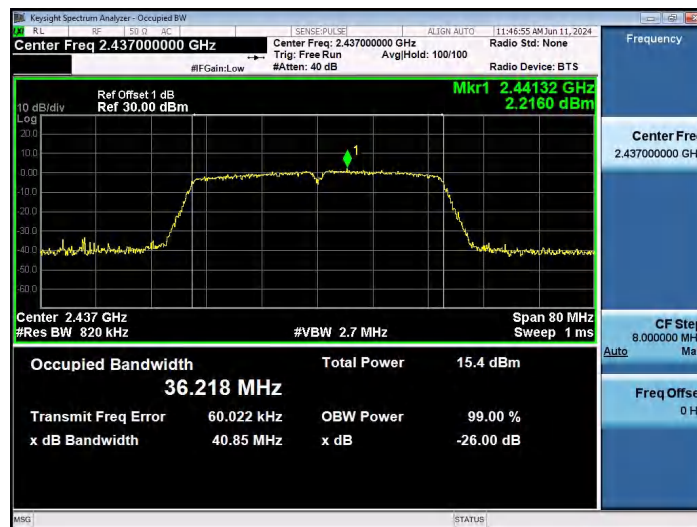


11N20SISO-Ant1-2462





11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452



Appendix C: Maximum output power

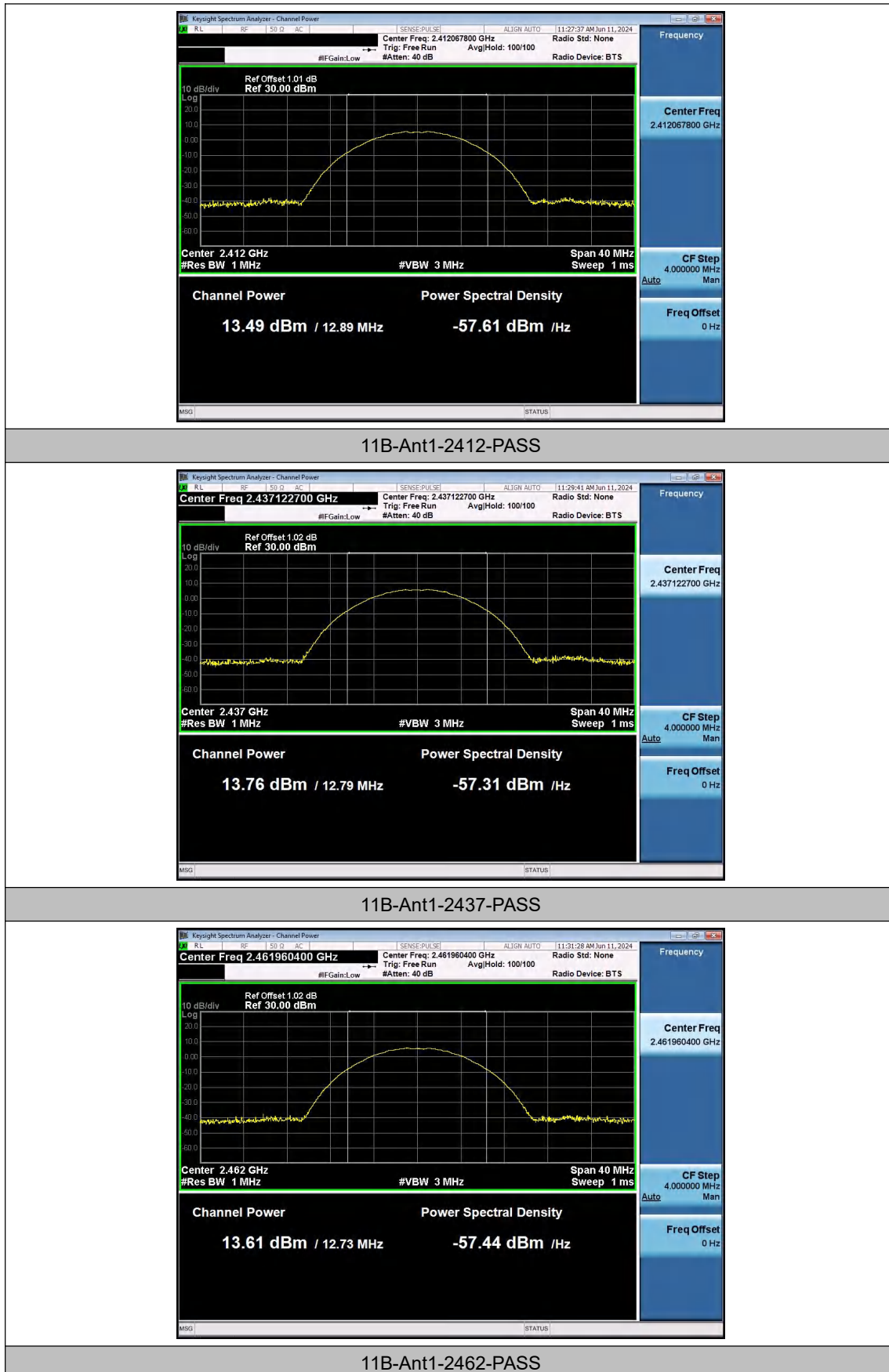
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.48	99.76	0.01	13.49	≤30.00	PASS
11B	Ant1	2437	13.74	99.64	0.02	13.76	≤30.00	PASS
11B	Ant1	2462	13.59	99.64	0.02	13.61	≤30.00	PASS
11G	Ant1	2412	12.75	97.90	0.09	12.84	≤30.00	PASS
11G	Ant1	2437	12.85	97.20	0.12	12.97	≤30.00	PASS
11G	Ant1	2462	12.77	97.20	0.12	12.89	≤30.00	PASS
11N20SISO	Ant1	2412	12.61	97.74	0.10	12.71	≤30.00	PASS
11N20SISO	Ant1	2437	12.73	96.99	0.13	12.86	≤30.00	PASS
11N20SISO	Ant1	2462	12.56	97.74	0.10	12.66	≤30.00	PASS
11N40SISO	Ant1	2422	12.85	95.59	0.20	13.05	≤30.00	PASS
11N40SISO	Ant1	2437	12.95	95.59	0.20	13.15	≤30.00	PASS
11N40SISO	Ant1	2452	13.02	95.59	0.20	13.22	≤30.00	PASS

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



Test Graphs Average



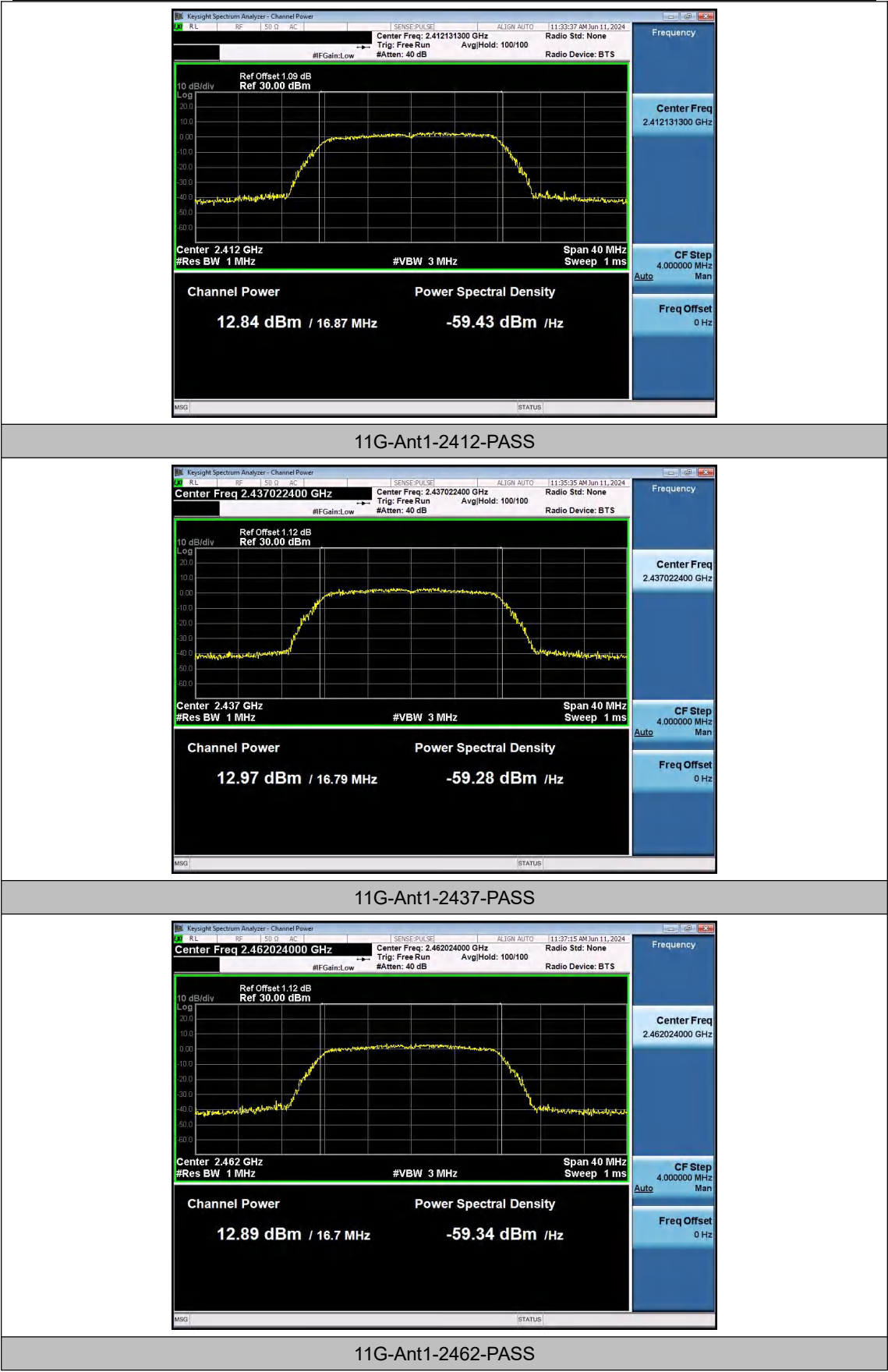
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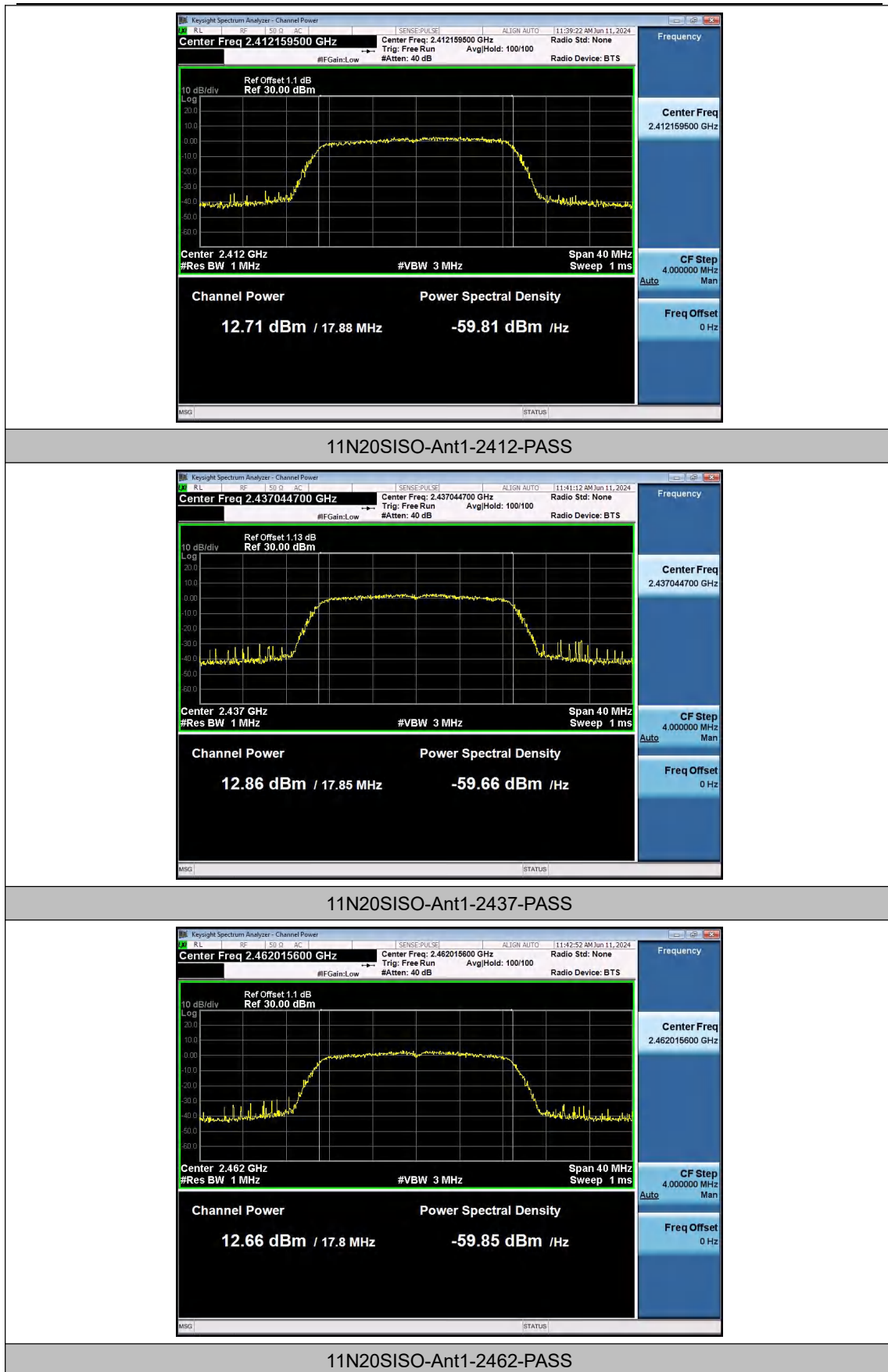
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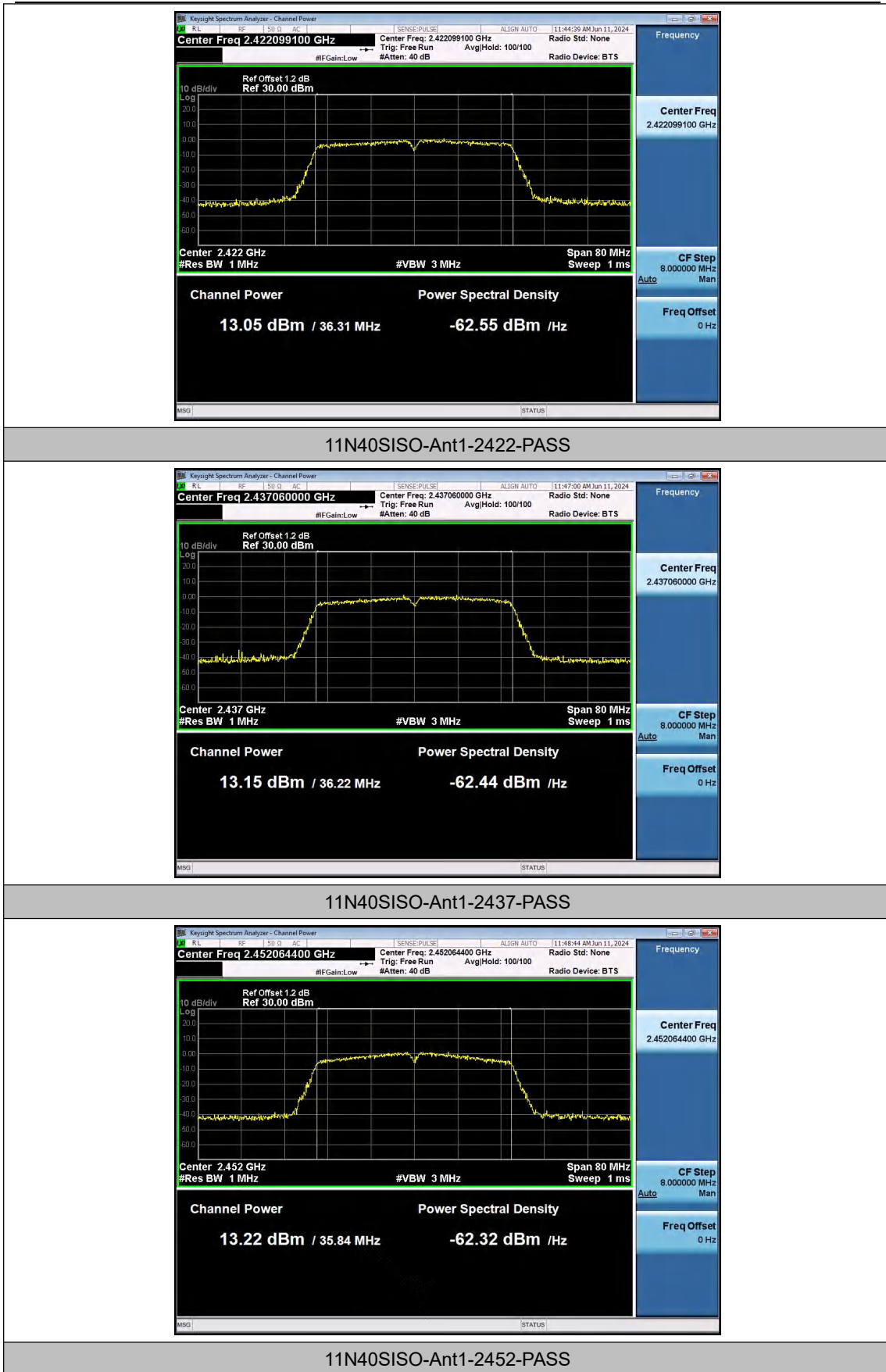


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Appendix D: Maximum power spectral density

Test Result

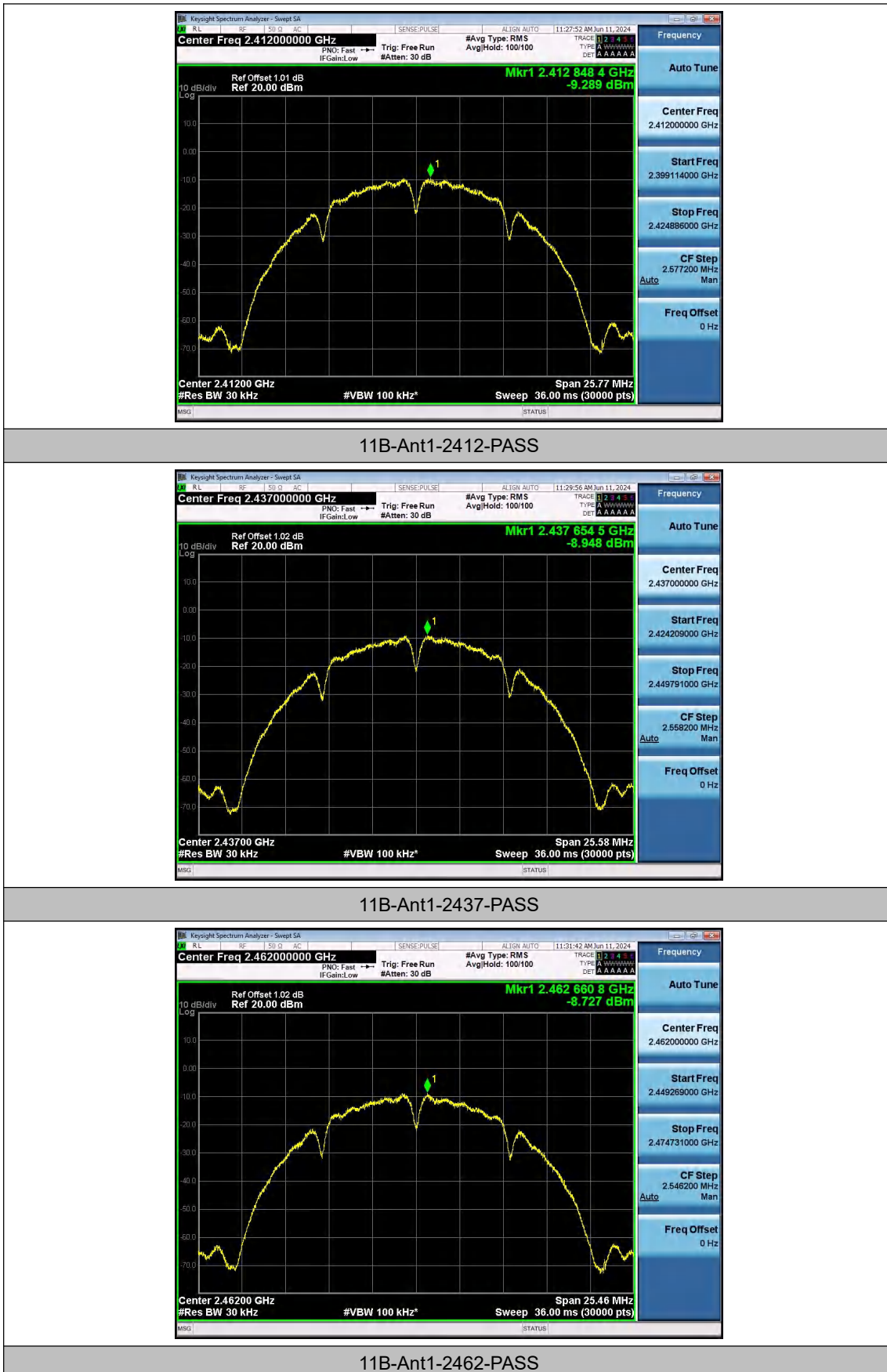
TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.29	-19.29	≤8.00	PASS
11B	Ant1	2437	-8.95	-18.95	≤8.00	PASS
11B	Ant1	2462	-8.73	-18.73	≤8.00	PASS
11G	Ant1	2412	-15.38	-25.38	≤8.00	PASS
11G	Ant1	2437	-15.11	-25.11	≤8.00	PASS
11G	Ant1	2462	-14.72	-24.72	≤8.00	PASS
11N20SISO	Ant1	2412	-15.65	-25.65	≤8.00	PASS
11N20SISO	Ant1	2437	-15.37	-25.37	≤8.00	PASS
11N20SISO	Ant1	2462	-15.45	-25.45	≤8.00	PASS
11N40SISO	Ant1	2422	-17.83	-27.83	≤8.00	PASS
11N40SISO	Ant1	2437	-18.40	-28.40	≤8.00	PASS
11N40SISO	Ant1	2452	-16.87	-26.87	≤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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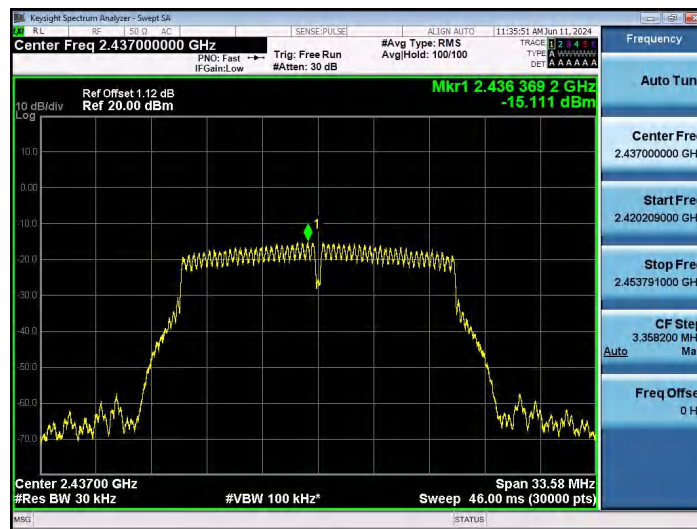
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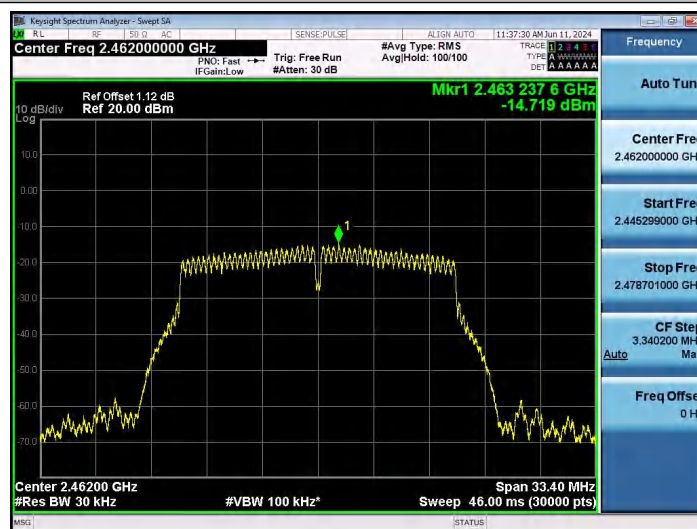




11G-Ant1-2412-PASS

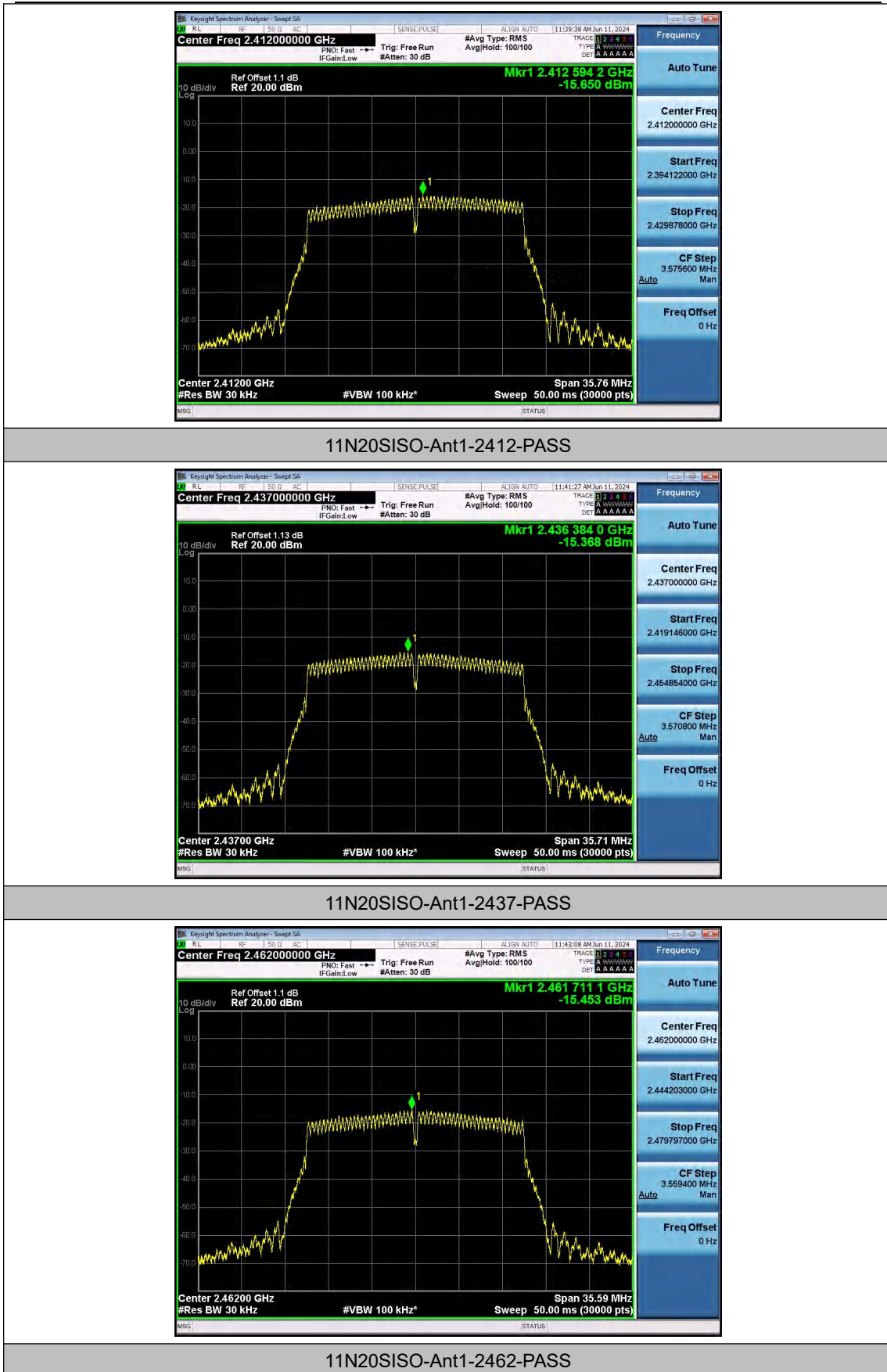


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



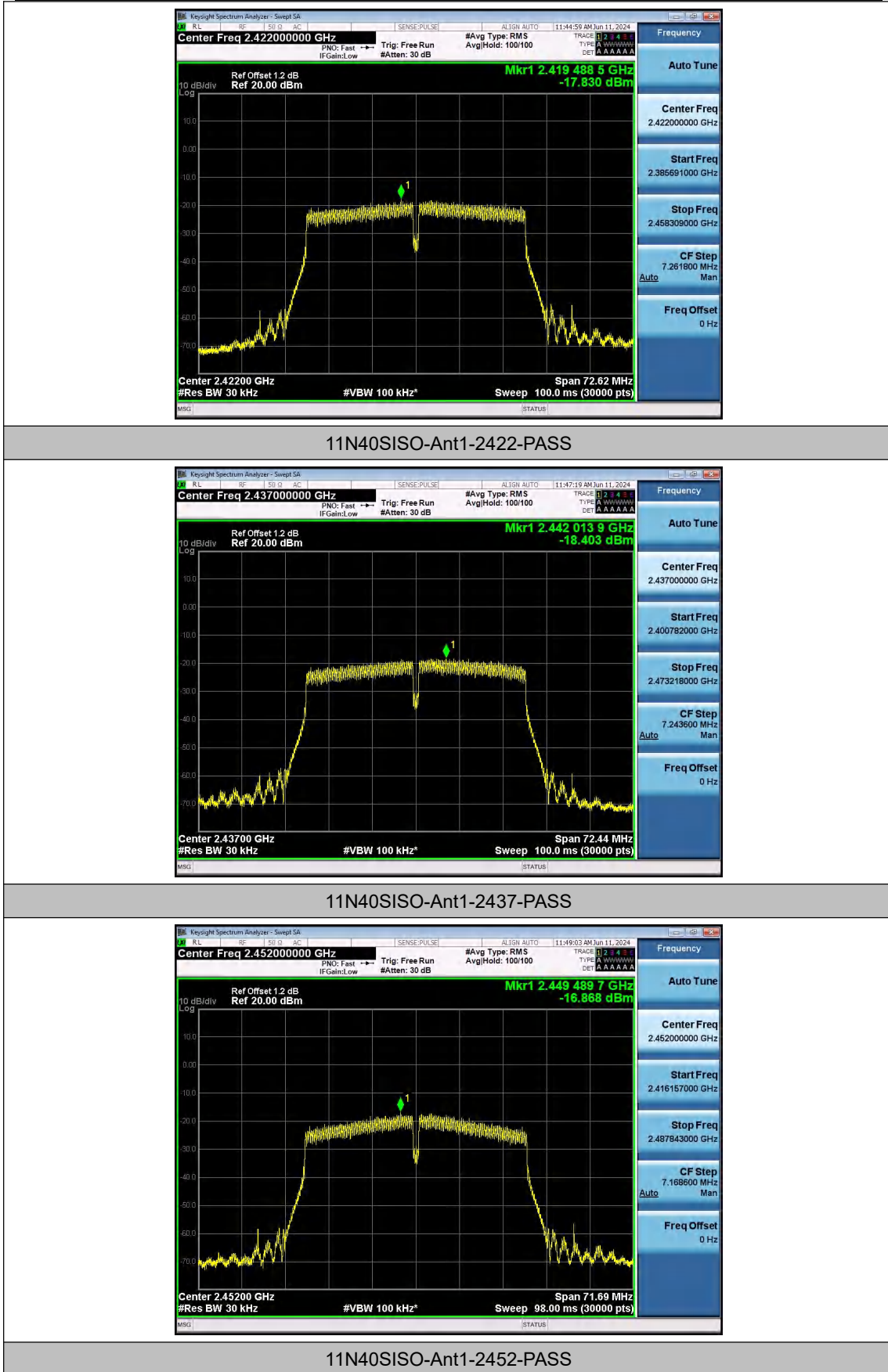


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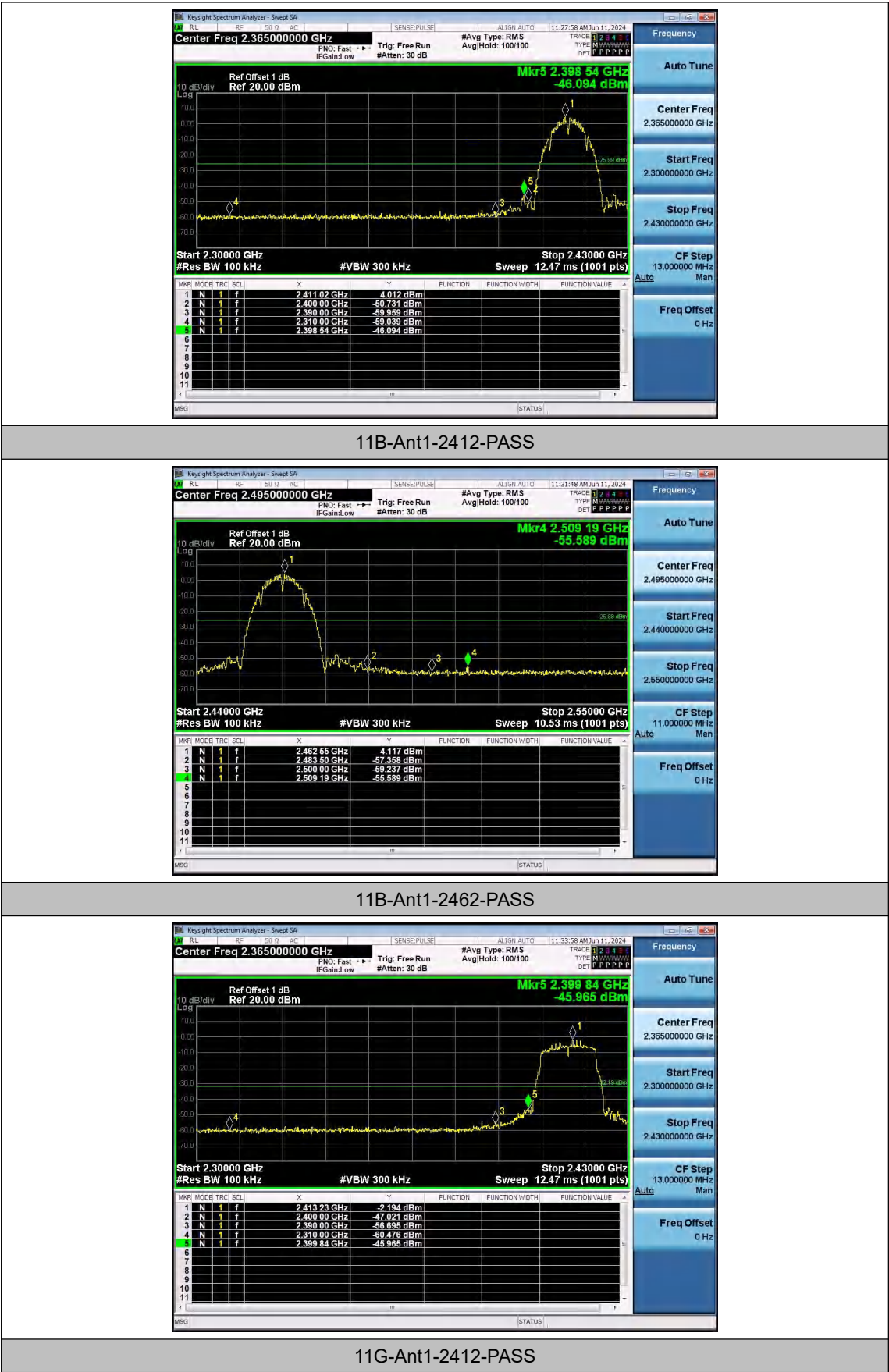
Appendix E: Conducted Band edge

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.01	-46.09	≤-25.99	PASS
11B	Ant1	High	2462	4.12	-55.59	≤-25.88	PASS
11G	Ant1	Low	2412	-2.19	-45.97	≤-32.19	PASS
11G	Ant1	High	2462	-2.03	-53.11	≤-32.03	PASS
11N20SISO	Ant1	Low	2412	-1.82	-45.26	≤-31.82	PASS
11N20SISO	Ant1	High	2462	-3.44	-53.77	≤-33.44	PASS
11N40SISO	Ant1	Low	2422	-4.77	-44.58	≤-34.77	PASS
11N40SISO	Ant1	High	2452	-3.94	-51.82	≤-33.94	PASS



Test Graphs

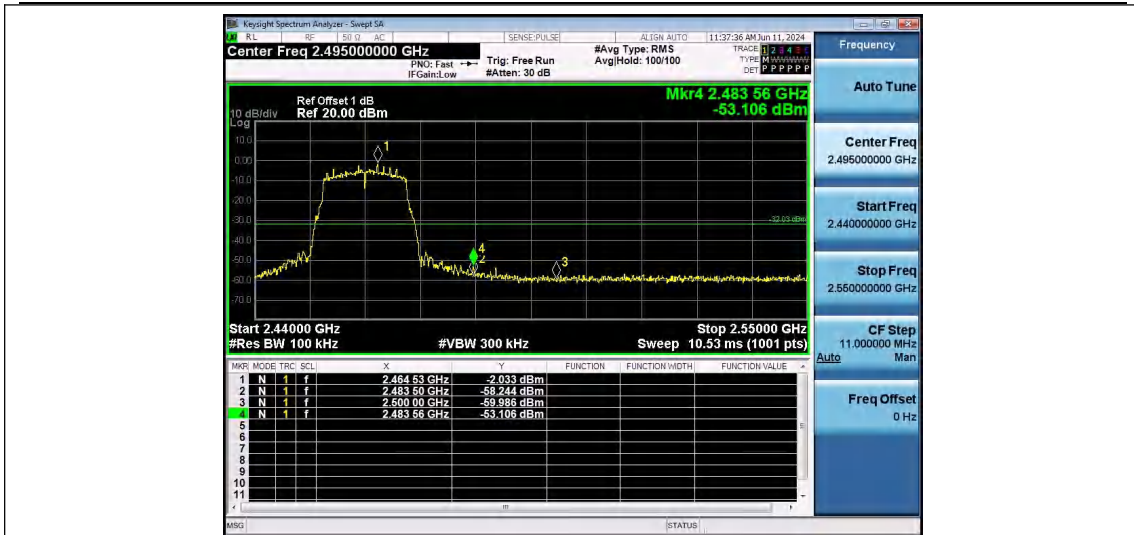


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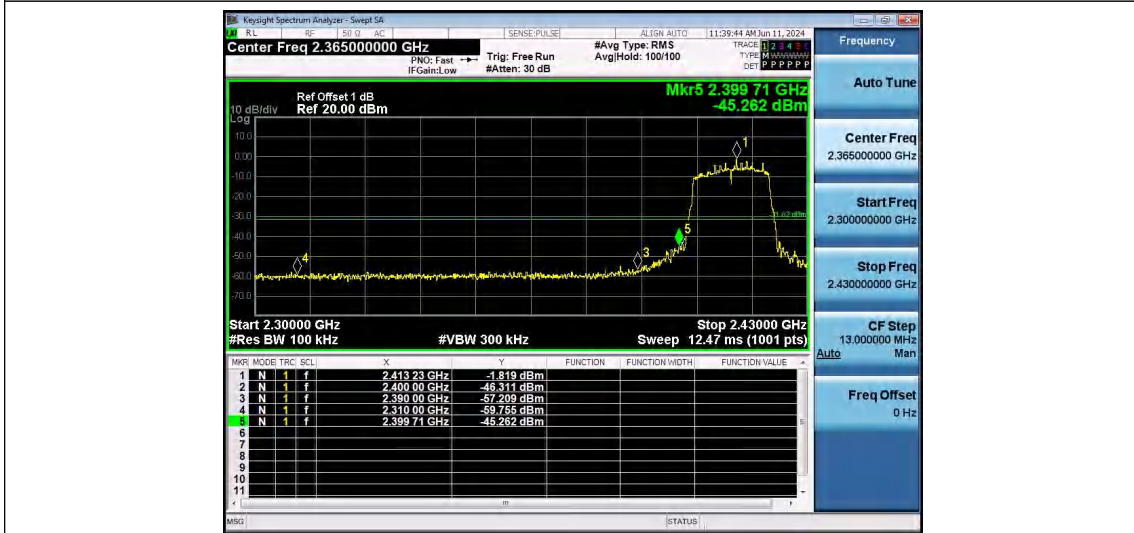
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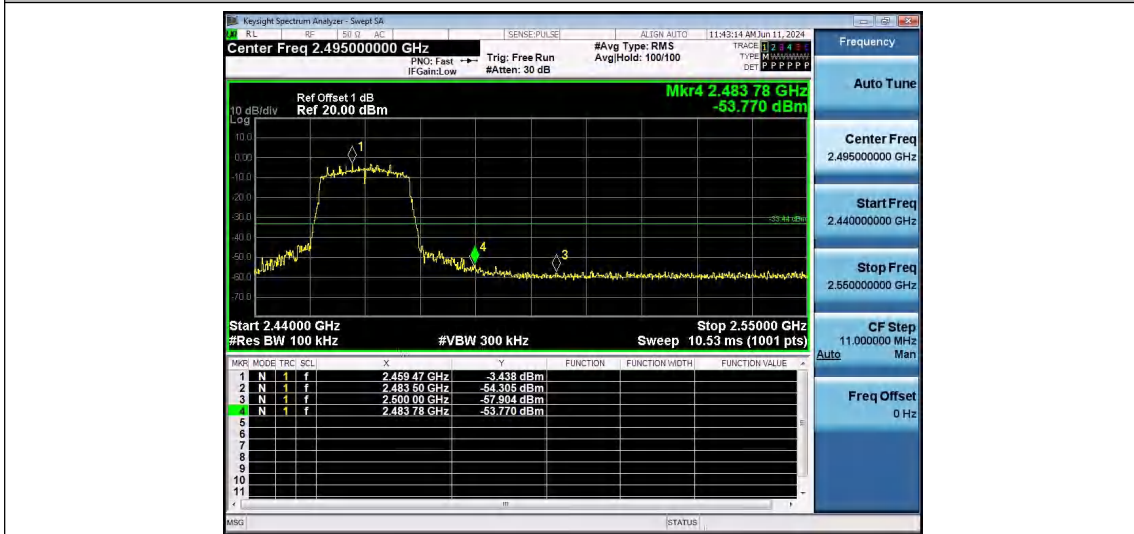




11G-Ant1-2462-PASS

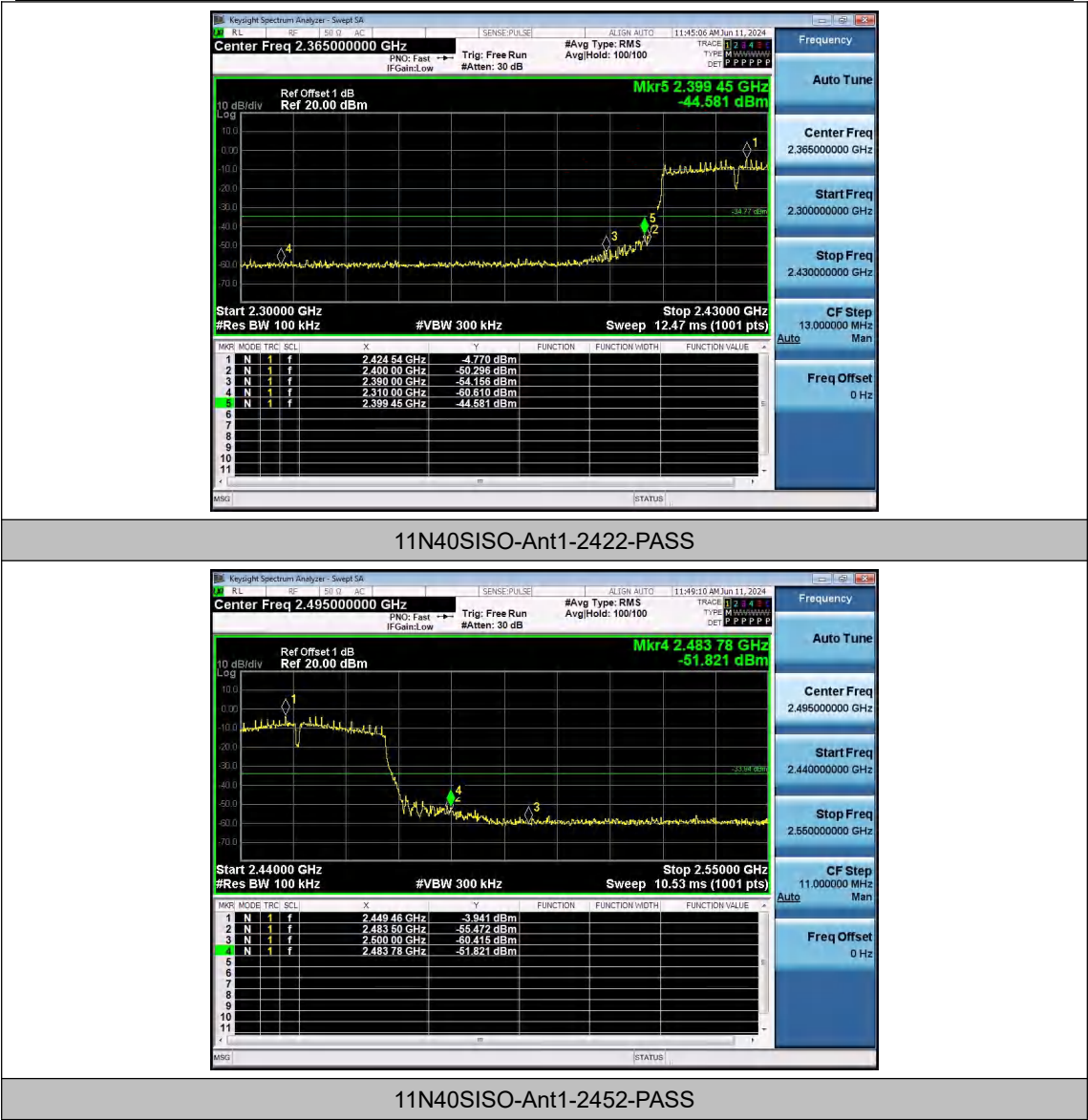


11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS





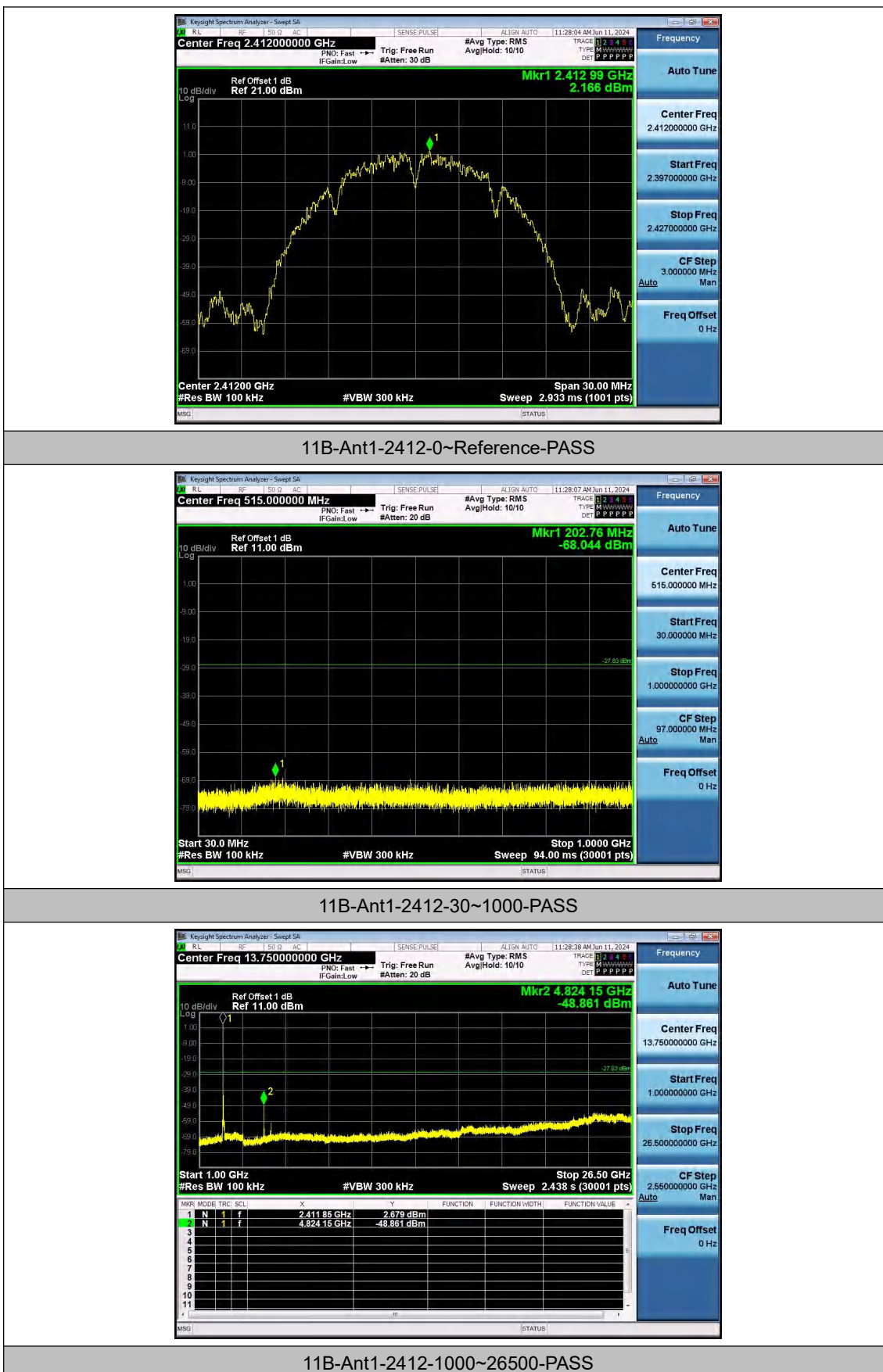
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.17	2.17	---	PASS
11B	Ant1	2412	30~1000	2.17	-68.04	≤-27.83	PASS
11B	Ant1	2412	1000~26500	2.17	-48.86	≤-27.83	PASS
11B	Ant1	2437	0~Reference	3.61	3.61	---	PASS
11B	Ant1	2437	30~1000	3.61	-68.43	≤-26.39	PASS
11B	Ant1	2437	1000~26500	3.61	-49.50	≤-26.39	PASS
11B	Ant1	2462	0~Reference	3.03	3.03	---	PASS
11B	Ant1	2462	30~1000	3.03	-68.41	≤-26.97	PASS
11B	Ant1	2462	1000~26500	3.03	-51.40	≤-26.97	PASS
11G	Ant1	2412	0~Reference	-3.09	-3.09	---	PASS
11G	Ant1	2412	30~1000	-3.09	-67.86	≤-33.09	PASS
11G	Ant1	2412	1000~26500	-3.09	-53.12	≤-33.09	PASS
11G	Ant1	2437	0~Reference	-5.50	-5.50	---	PASS
11G	Ant1	2437	30~1000	-5.50	-68.61	≤-35.5	PASS
11G	Ant1	2437	1000~26500	-5.50	-52.95	≤-35.5	PASS
11G	Ant1	2462	0~Reference	-4.51	-4.51	---	PASS
11G	Ant1	2462	30~1000	-4.51	-68.88	≤-34.51	PASS
11G	Ant1	2462	1000~26500	-4.51	-53.24	≤-34.51	PASS
11N20SISO	Ant1	2412	0~Reference	-4.69	-4.69	---	PASS
11N20SISO	Ant1	2412	30~1000	-4.69	-68.19	≤-34.69	PASS
11N20SISO	Ant1	2412	1000~26500	-4.69	-53.09	≤-34.69	PASS
11N20SISO	Ant1	2437	0~Reference	-2.41	-2.41	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.41	-68.40	≤-32.41	PASS
11N20SISO	Ant1	2437	1000~26500	-2.41	-53.56	≤-32.41	PASS
11N20SISO	Ant1	2462	0~Reference	-2.59	-2.59	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.59	-67.38	≤-32.59	PASS
11N20SISO	Ant1	2462	1000~26500	-2.59	-53.63	≤-32.59	PASS
11N40SISO	Ant1	2422	0~Reference	-5.86	-5.86	---	PASS
11N40SISO	Ant1	2422	30~1000	-5.86	-68.94	≤-35.86	PASS
11N40SISO	Ant1	2422	1000~26500	-5.86	-53.22	≤-35.86	PASS
11N40SISO	Ant1	2437	0~Reference	-6.00	-6.00	---	PASS
11N40SISO	Ant1	2437	30~1000	-6.00	-68.29	≤-36	PASS
11N40SISO	Ant1	2437	1000~26500	-6.00	-53.57	≤-36	PASS
11N40SISO	Ant1	2452	0~Reference	-4.78	-4.78	---	PASS
11N40SISO	Ant1	2452	30~1000	-4.78	-68.18	≤-34.78	PASS
11N40SISO	Ant1	2452	1000~26500	-4.78	-52.28	≤-34.78	PASS



Test Graphs

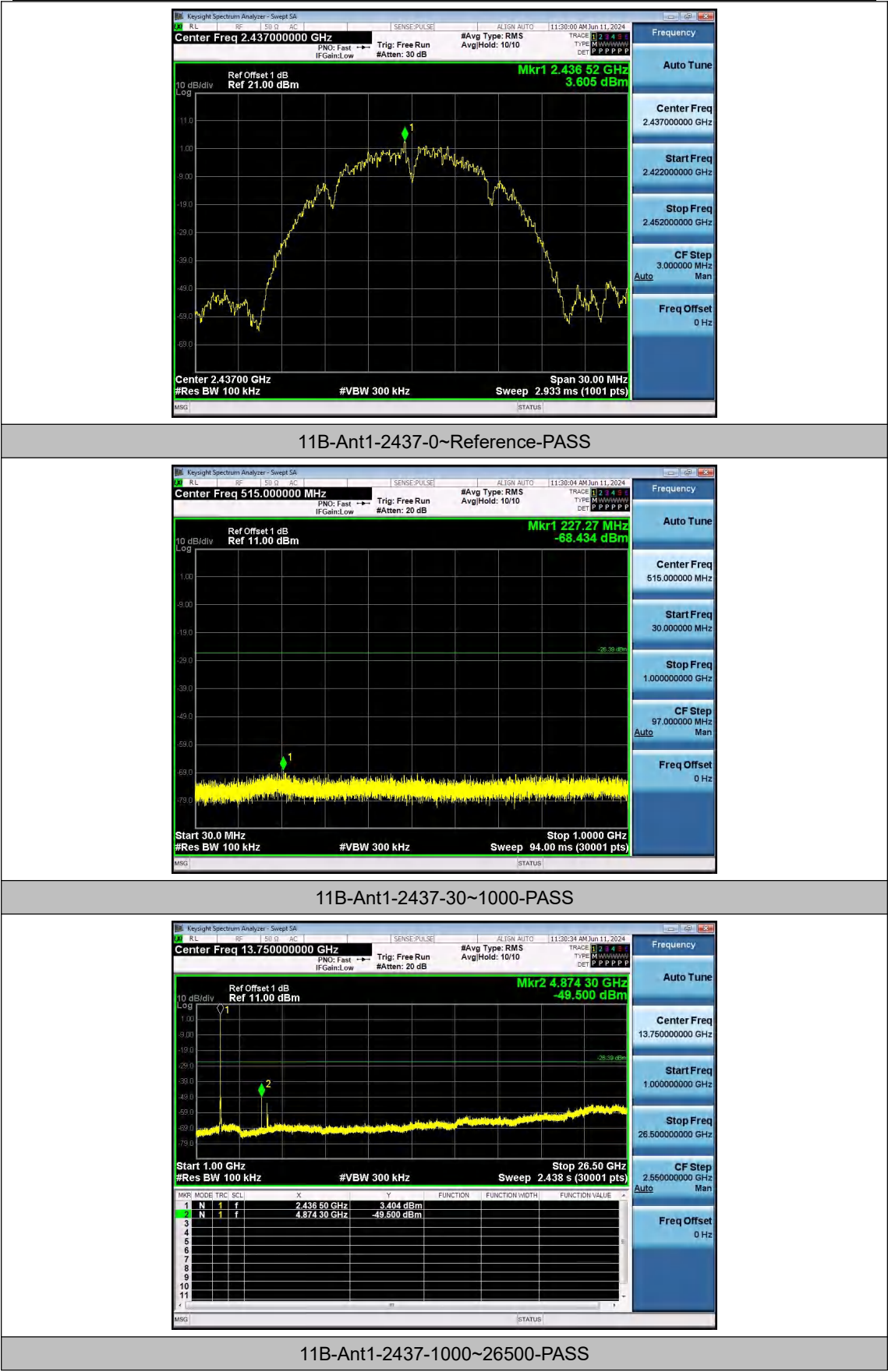


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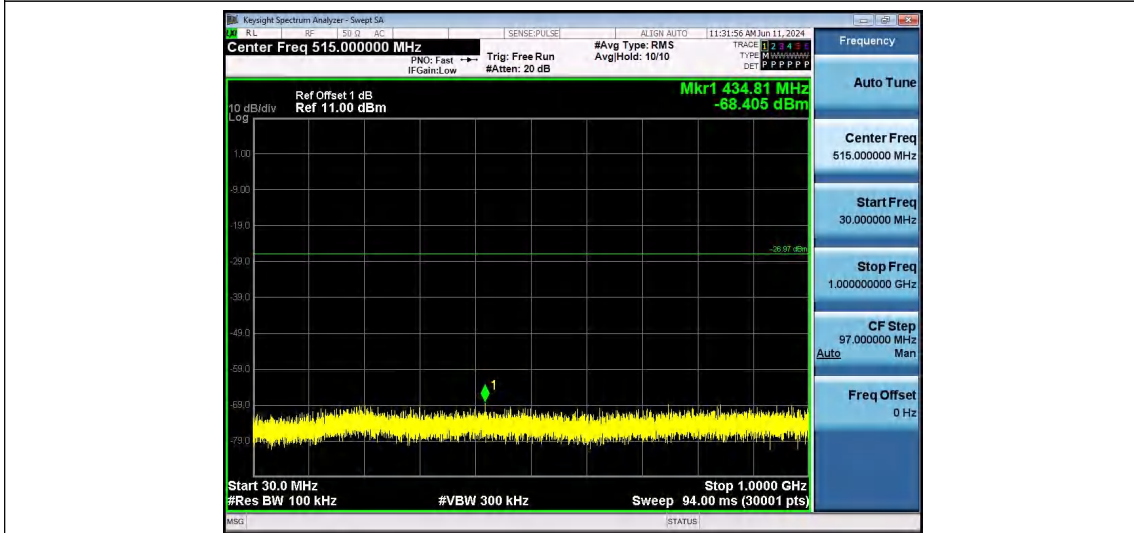
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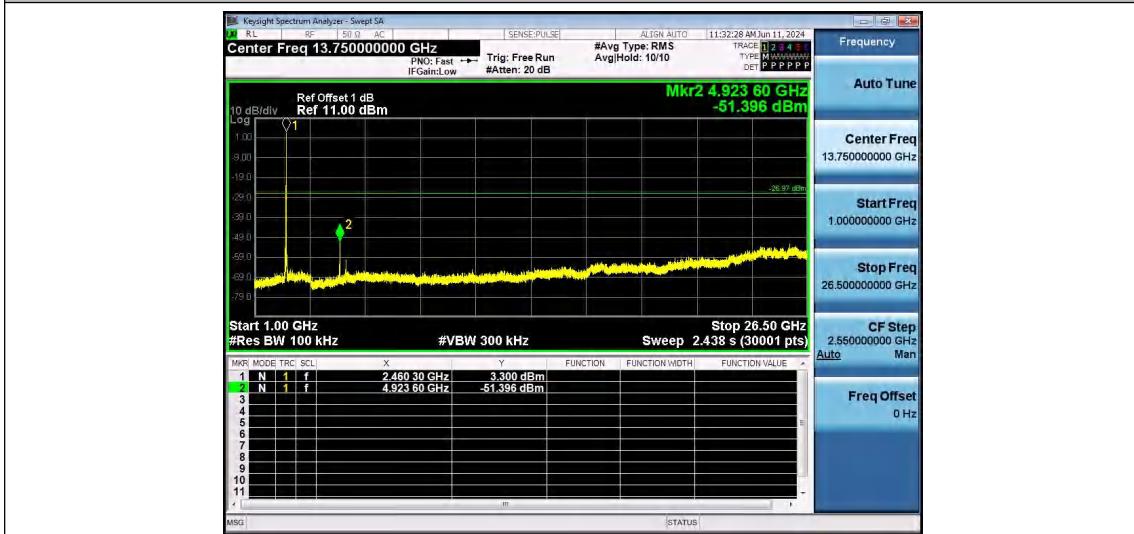




11B-Ant1-2462-0~Reference-PASS



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

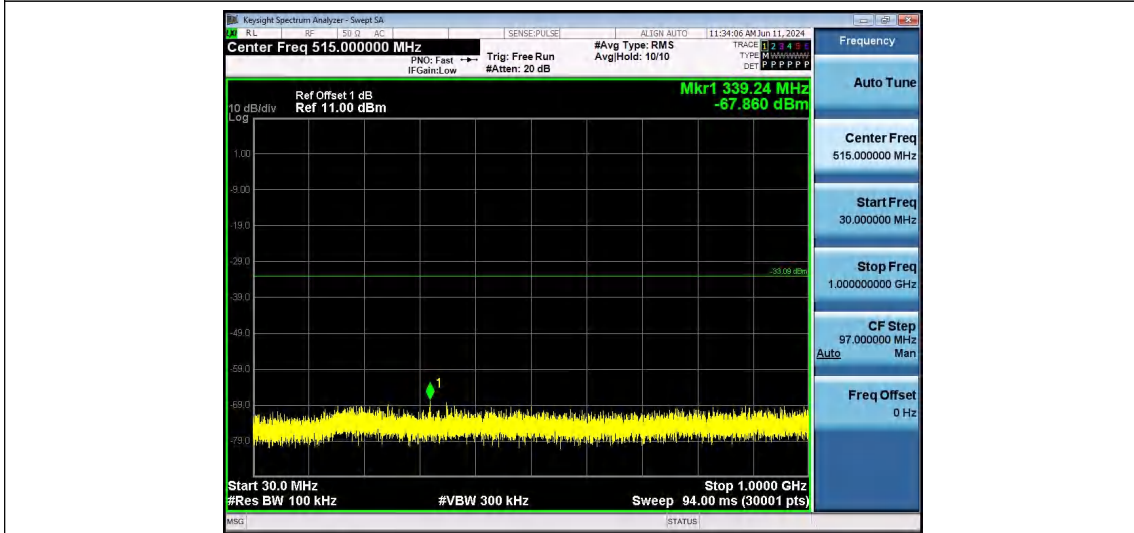


11B-Ant1-2462-1000~26500-PASS

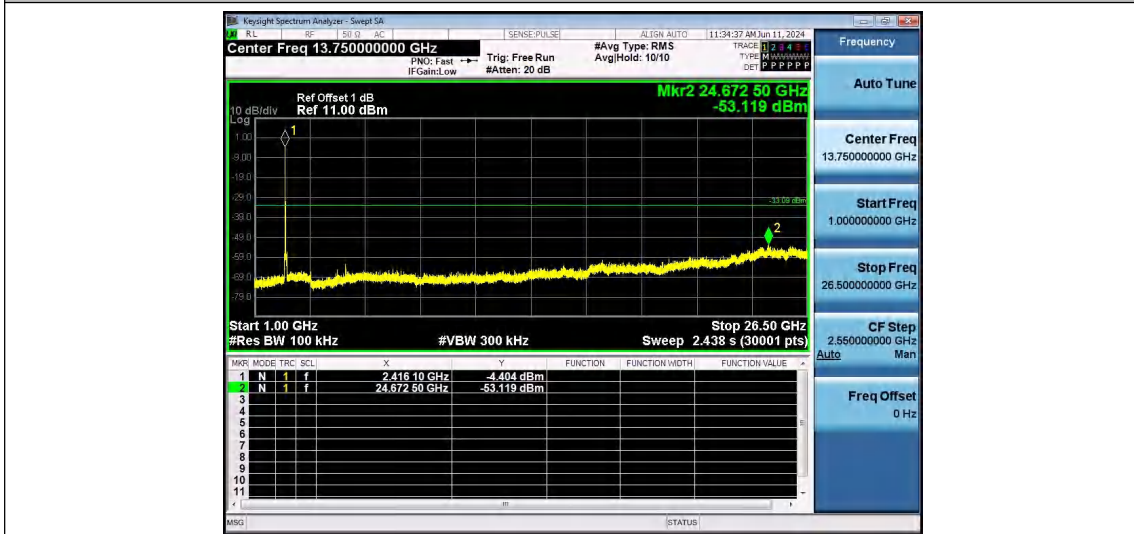




11G-Ant1-2412-0~Reference-PASS

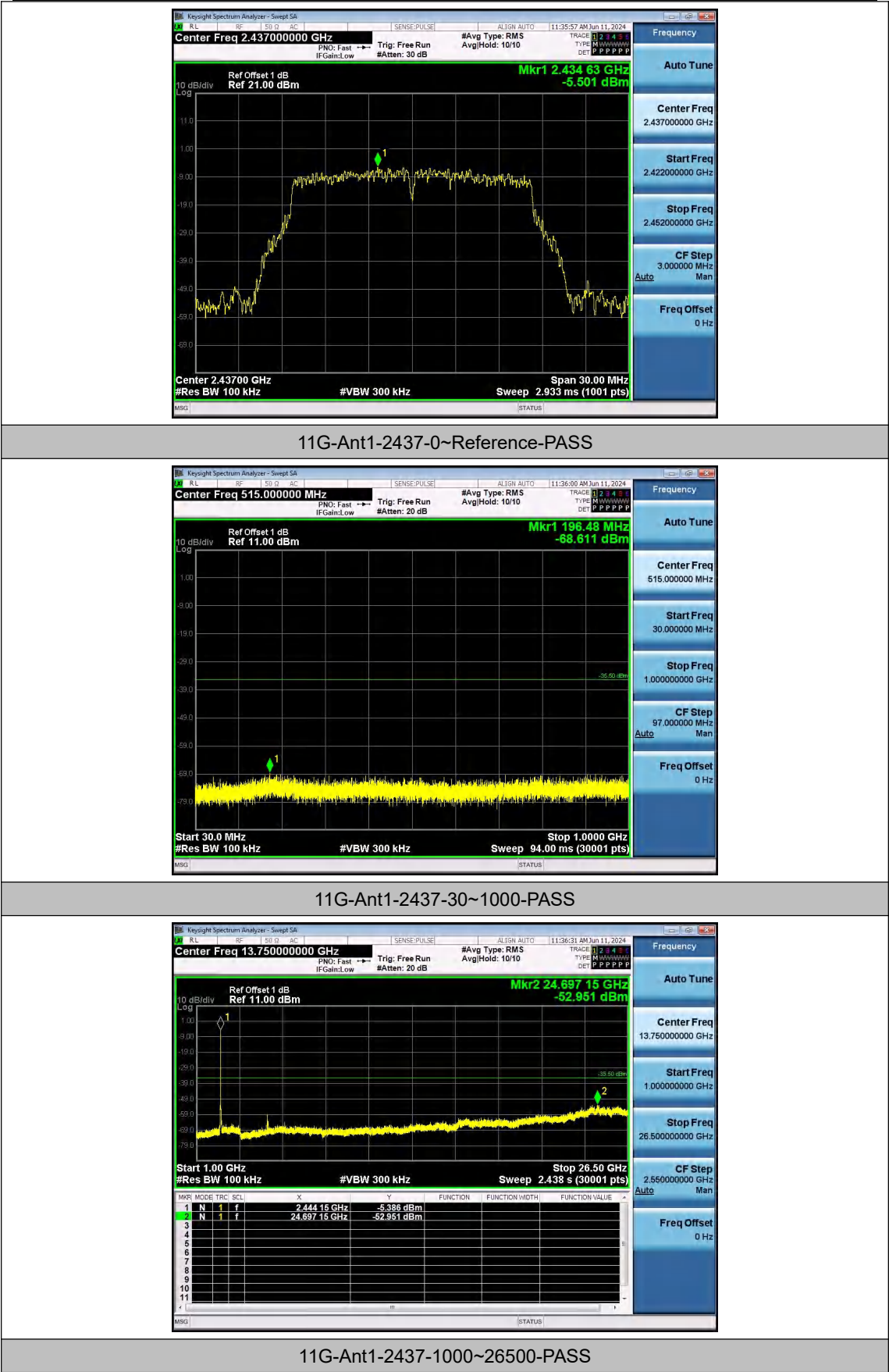


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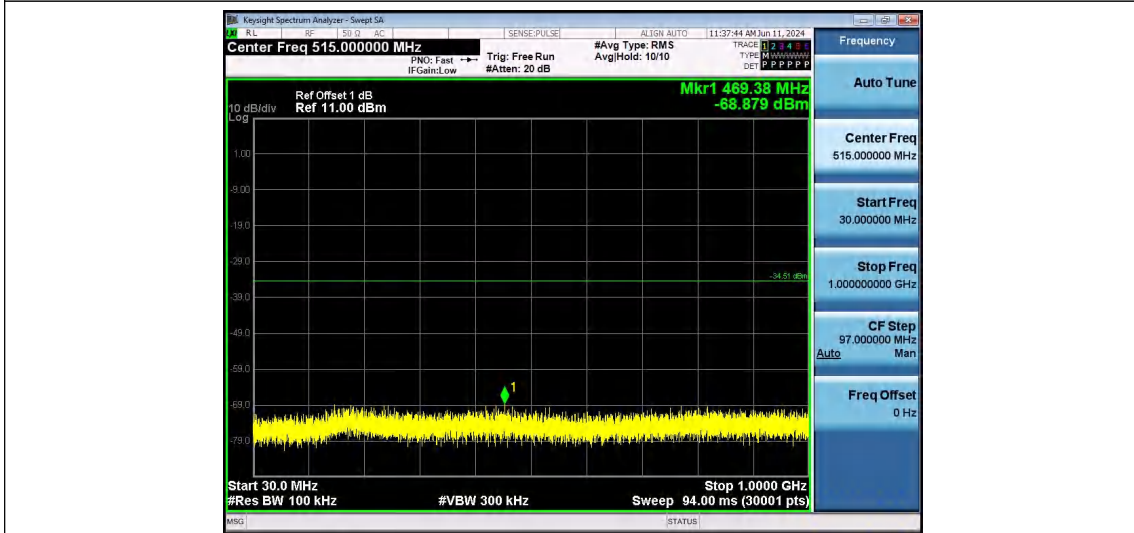
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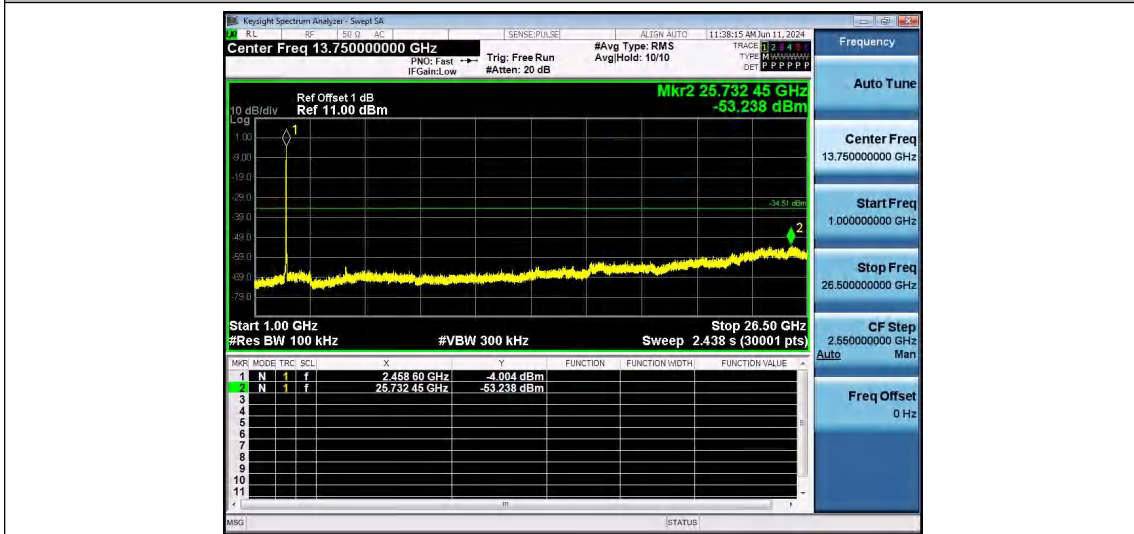




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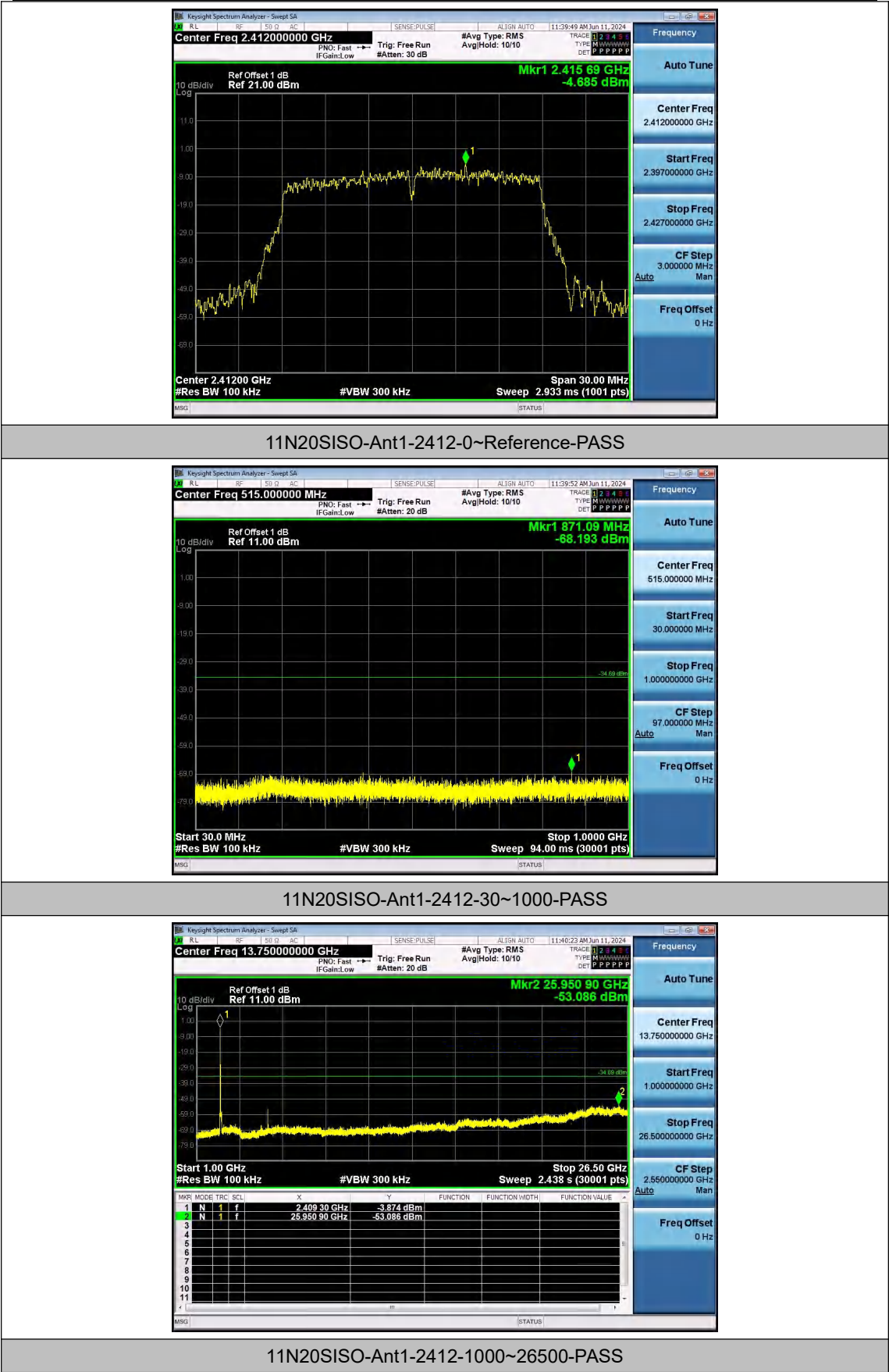


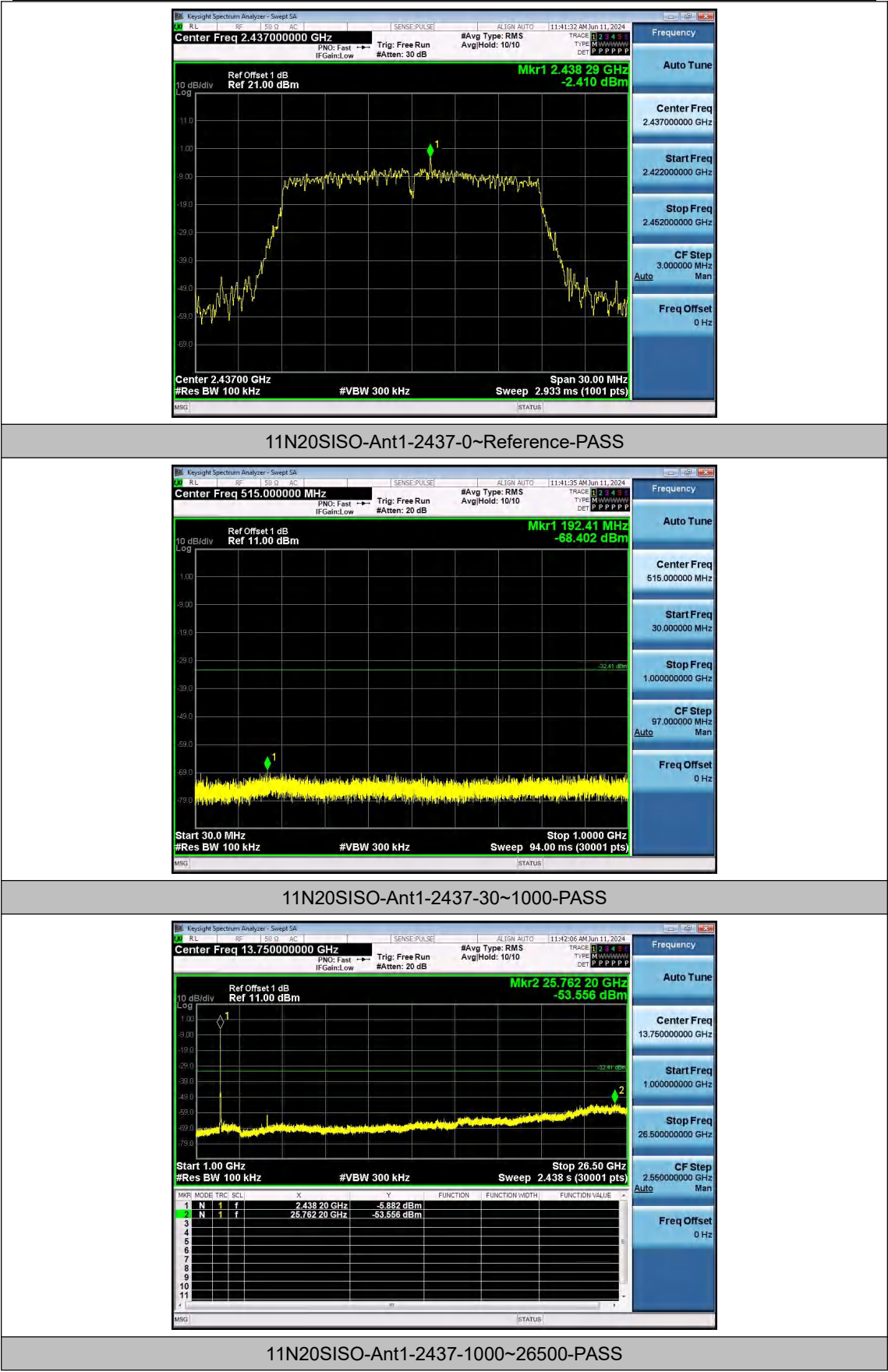
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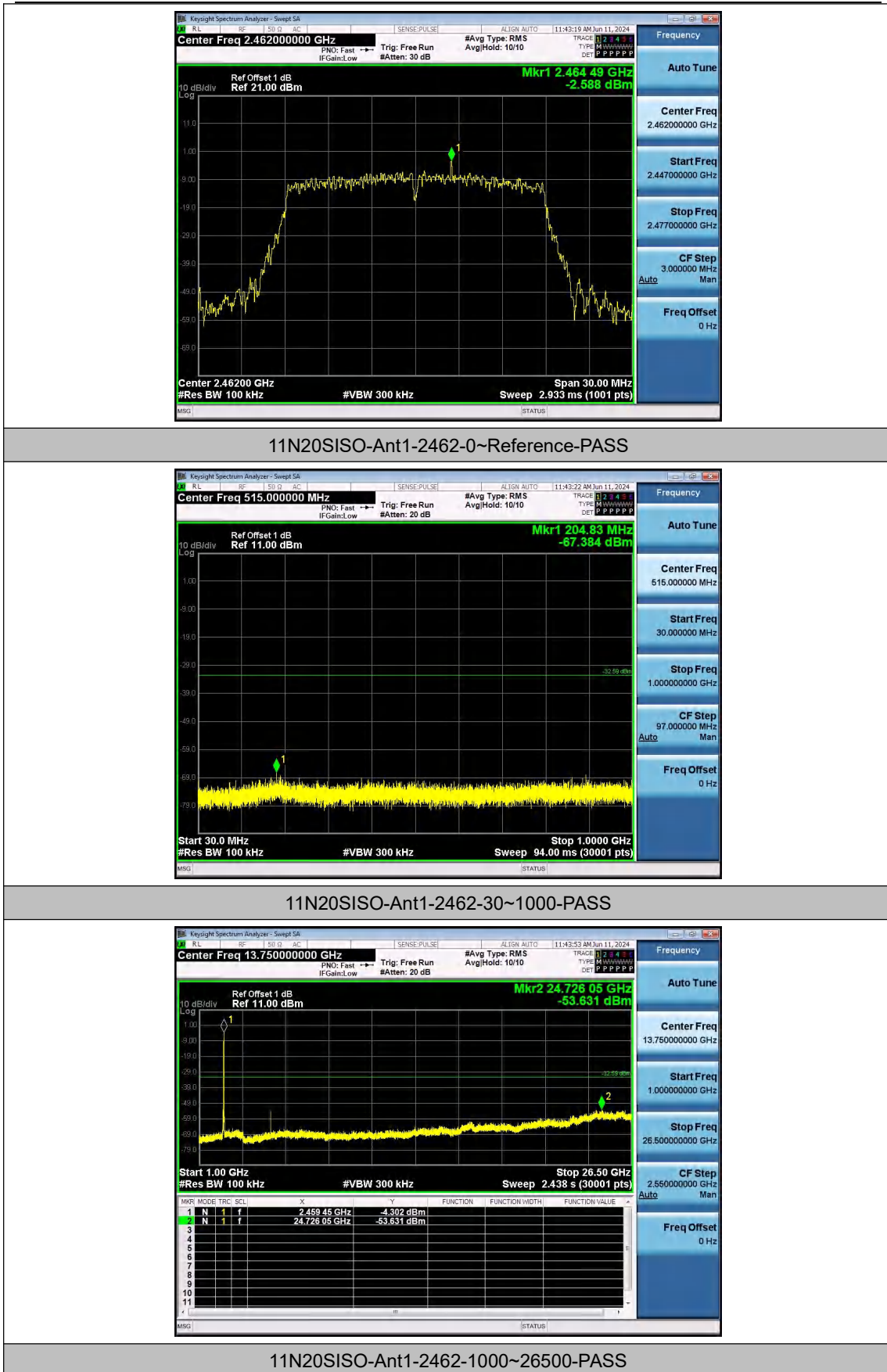


11G-Ant1-2462-1000~26500-PASS



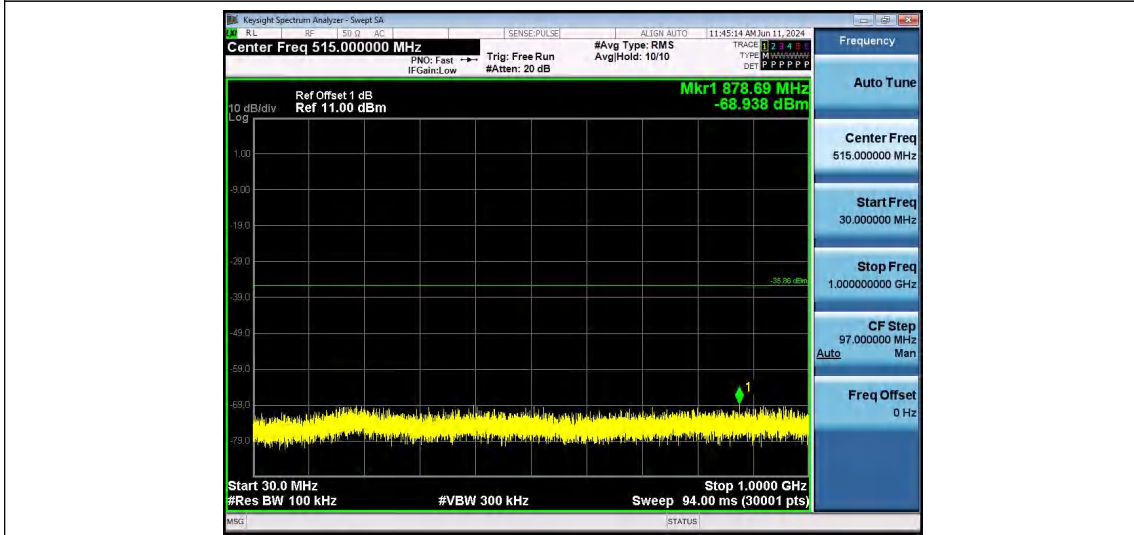




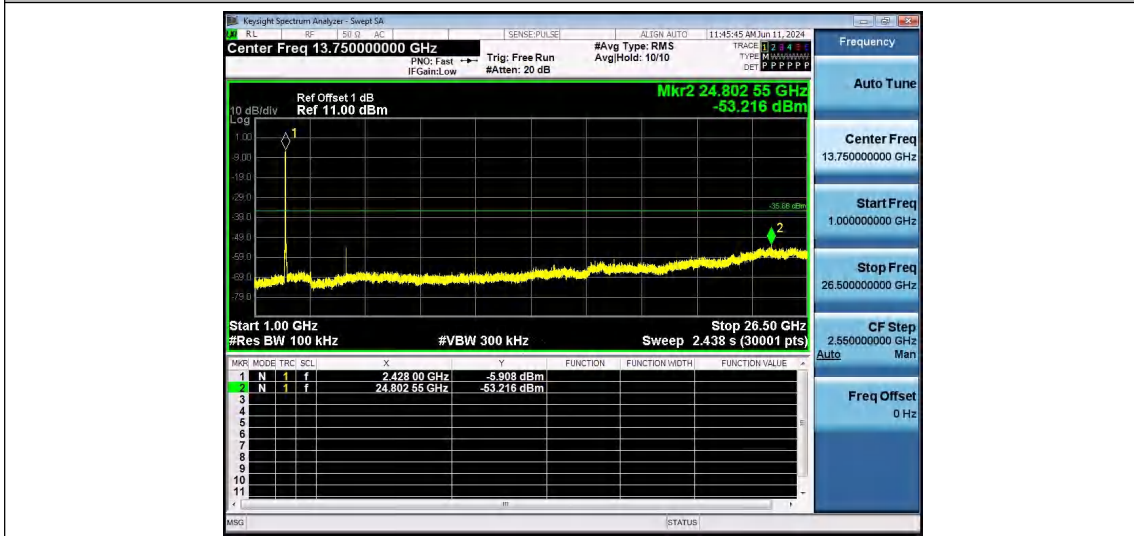




11N40SISO-Ant1-2422-0~Reference-PASS



11N40SISO-Ant1-2422-30~1000-PASS

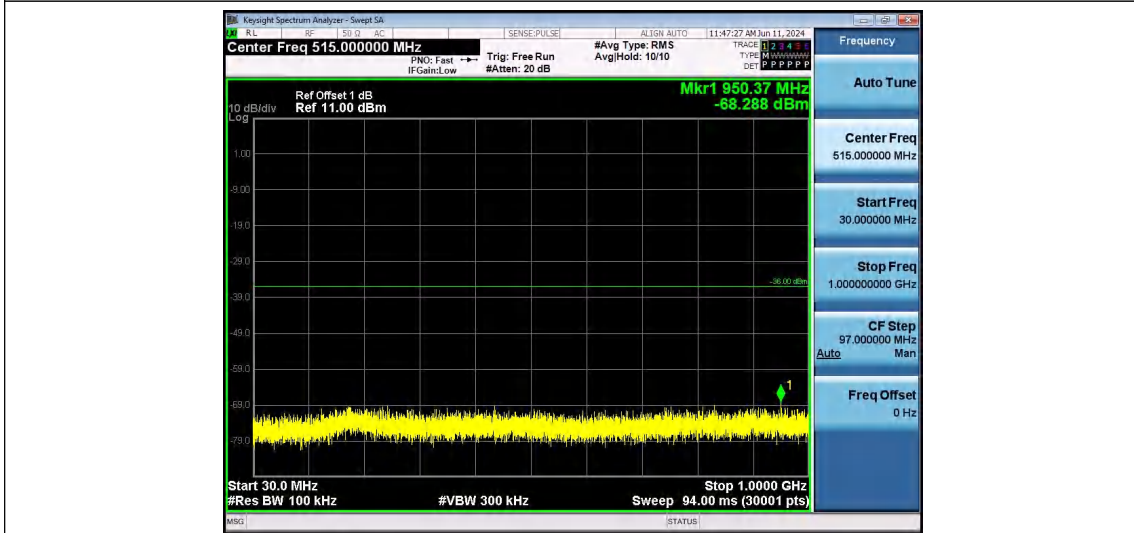


11N40SISO-Ant1-2422-1000~26500-PASS

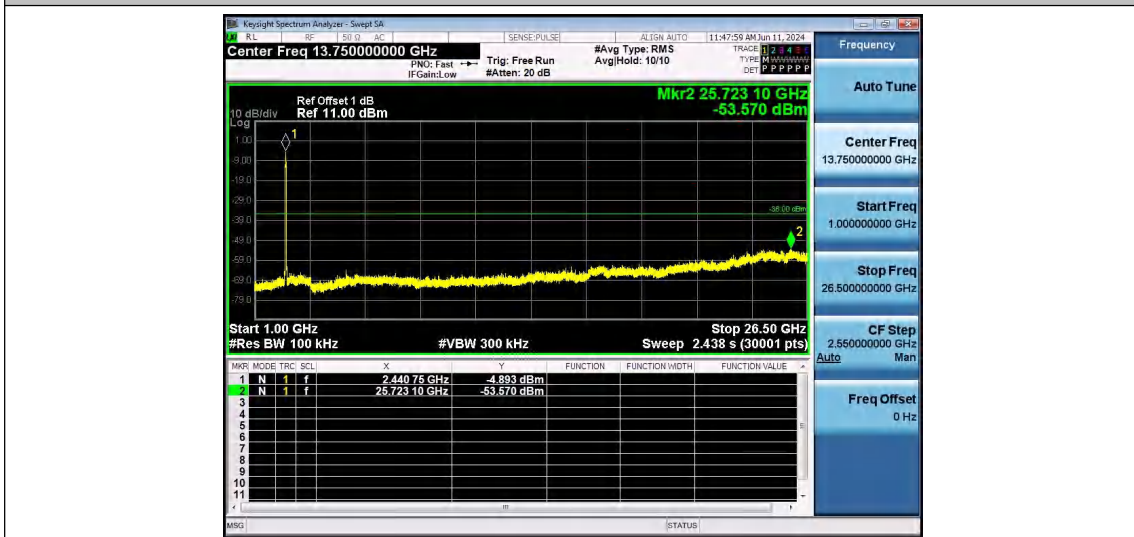




11N40SISO-Ant1-2437-0~Reference-PASS



11N40SISO-Ant1-2437-30~1000-PASS

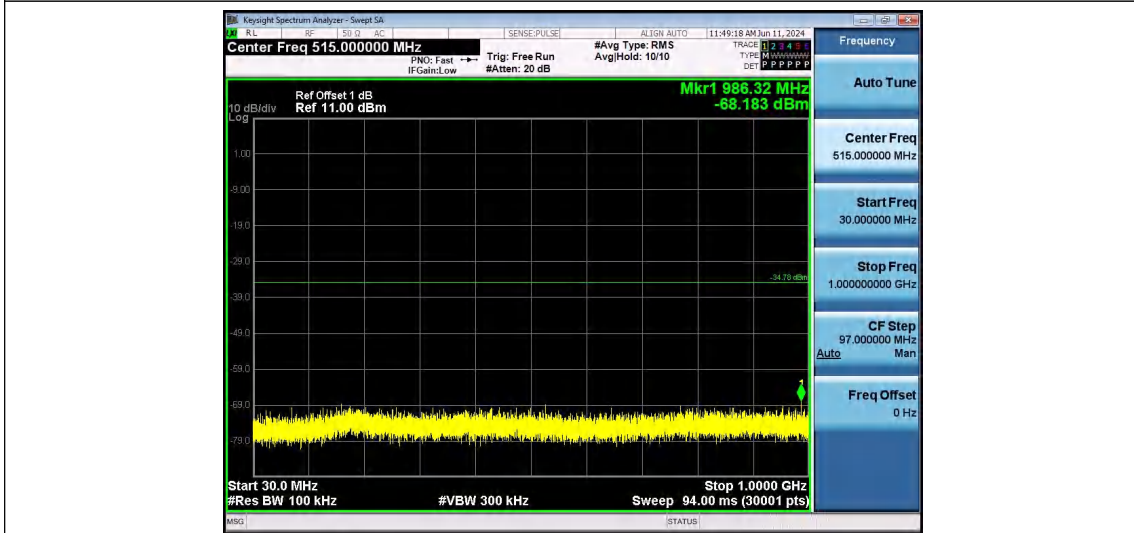


11N40SISO-Ant1-2437-1000~26500-PASS

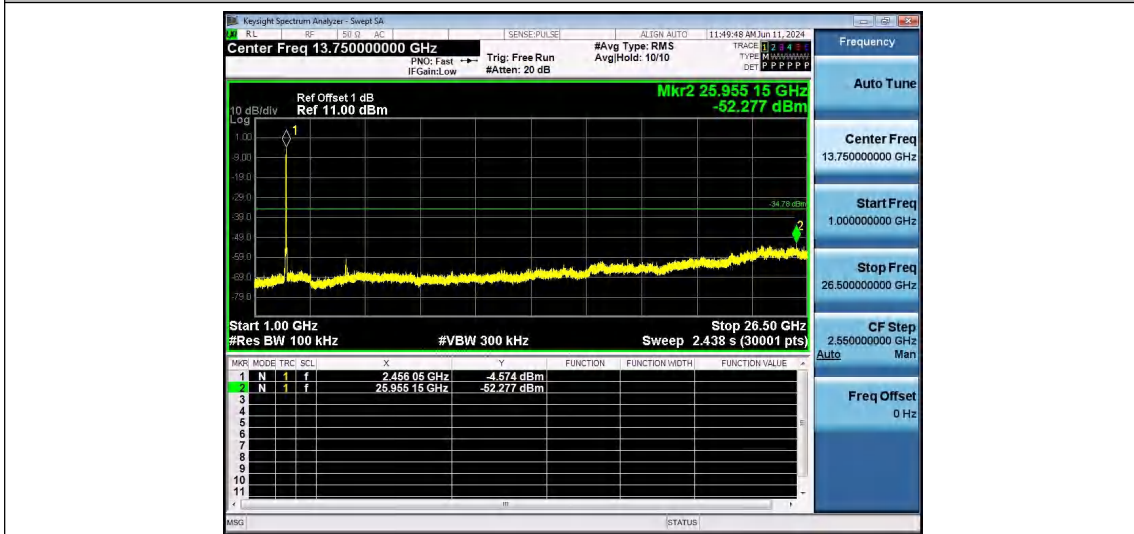




11N40SISO-Ant1-2452-0~Reference-PASS



11N40SISO-Ant1-2452-30~1000-PASS



11N40SISO-Ant1-2452-1000~26500-PASS



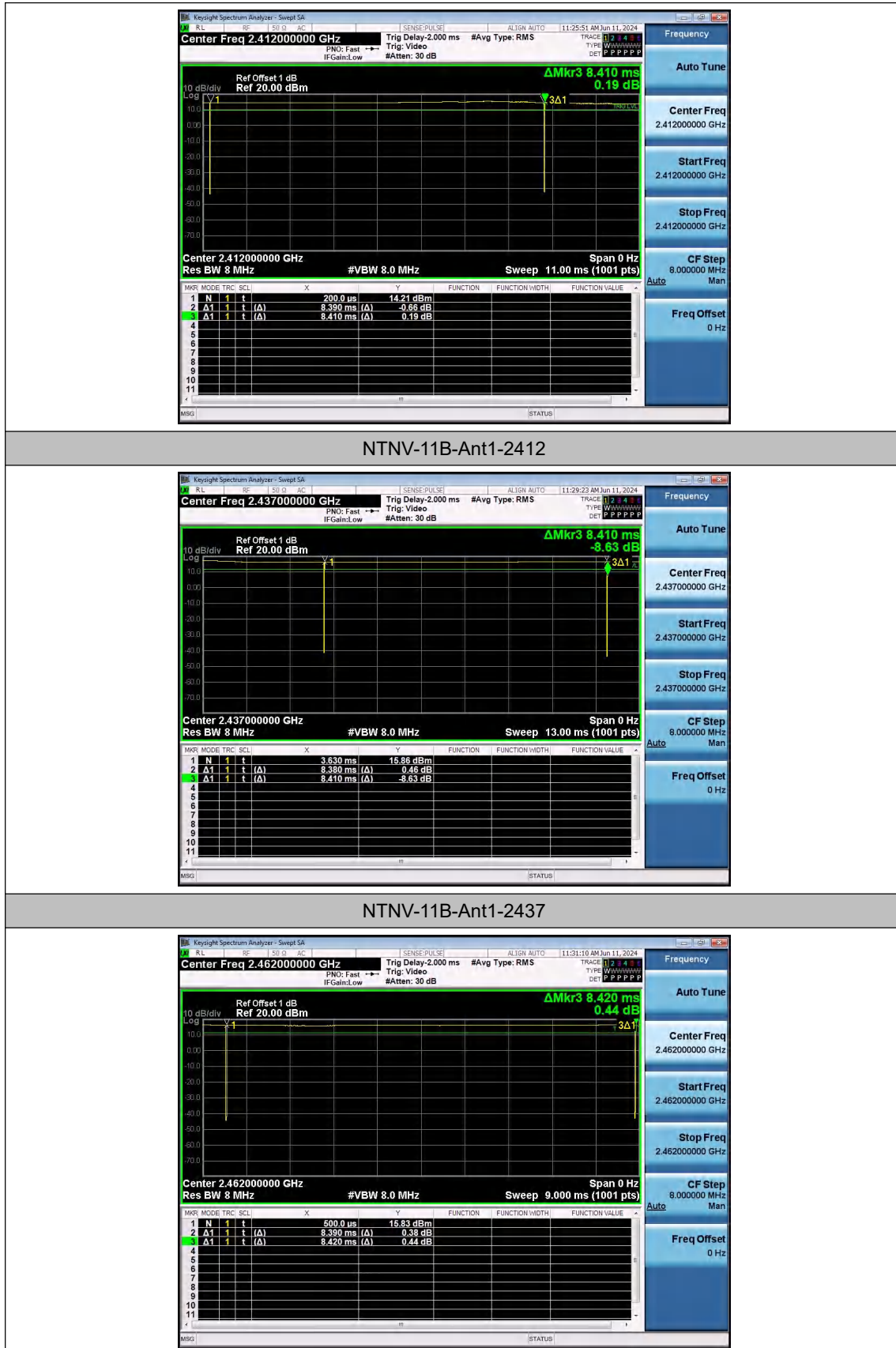
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.41	99.76	0.01
11B	Ant1	2437	8.38	8.41	99.64	0.02
11B	Ant1	2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.40	1.43	97.90	0.09
11G	Ant1	2437	1.39	1.43	97.20	0.12
11G	Ant1	2462	1.39	1.43	97.20	0.12
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
11N20SISO	Ant1	2437	1.29	1.33	96.99	0.13
11N20SISO	Ant1	2462	1.30	1.33	97.74	0.10
11N40SISO	Ant1	2422	0.65	0.68	95.59	0.20
11N40SISO	Ant1	2437	0.65	0.68	95.59	0.20
11N40SISO	Ant1	2452	0.65	0.68	95.59	0.20



Test Graphs



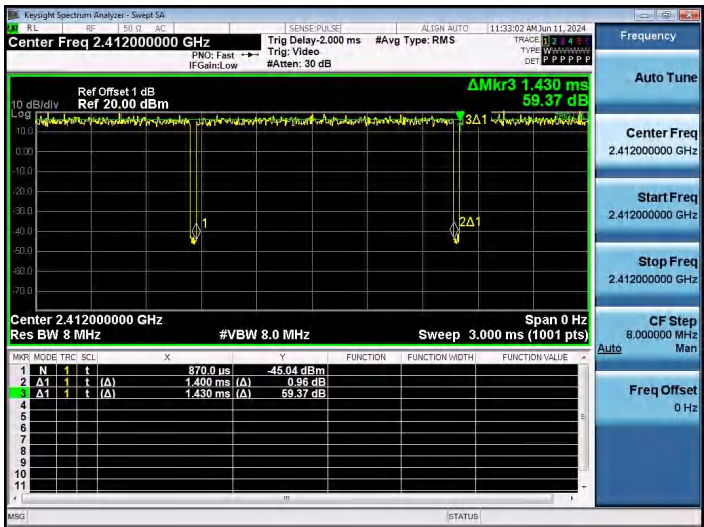
Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

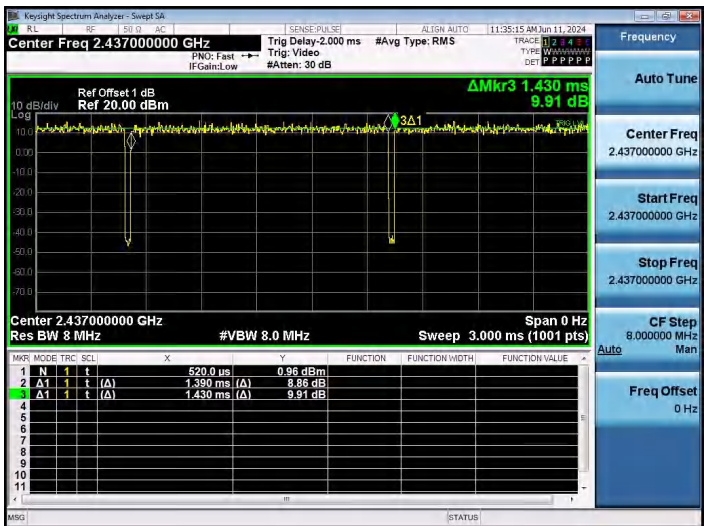
Hotline 400-003-0500
www.anbotek.com



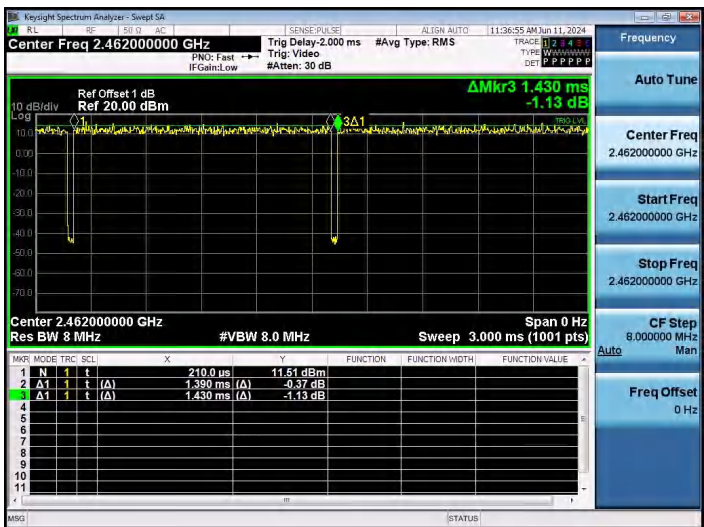
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



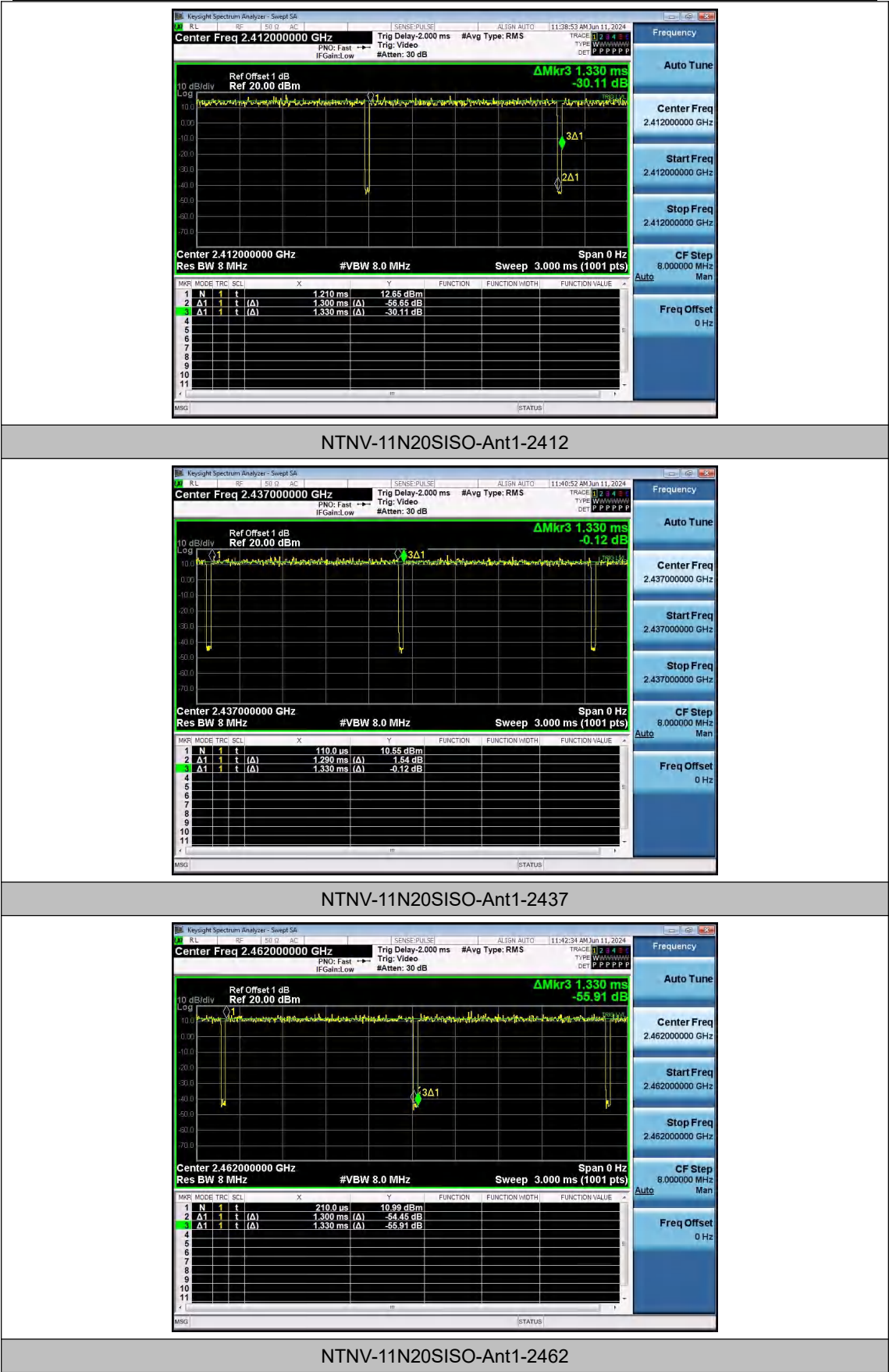
NTNV-11G-Ant1-2462

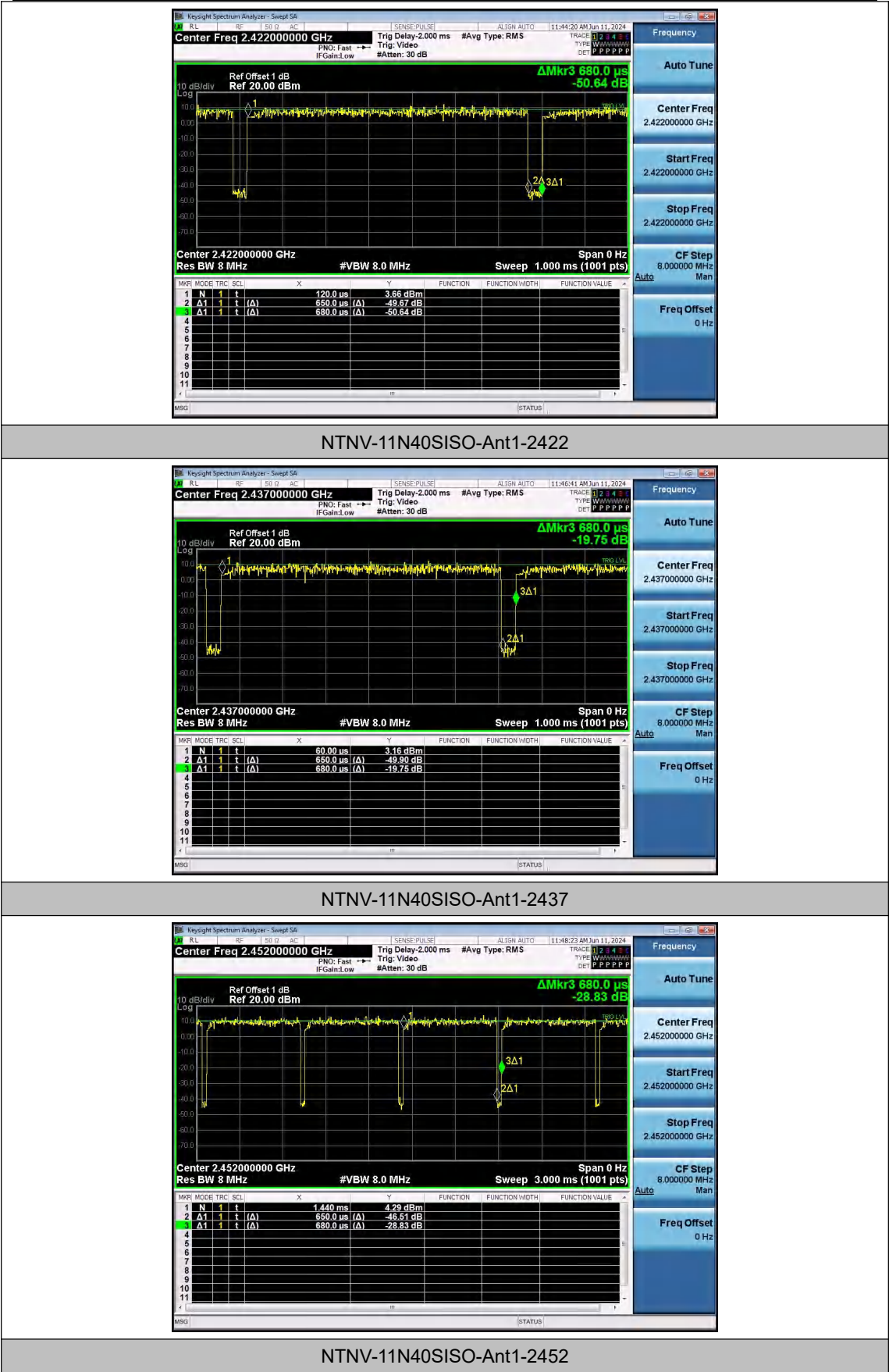
Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

Hotline 400-003-0500
www.anbotek.com







---End---

