

Appendix Test Data

Report No.:	18220WC40016902	Test Sample No.:	1-2-2
Start Test Date:	2024.2.23	Finish Test Date:	2024.2.23
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	9.560	2432.440	2442.000	0.5	PASS
		2462	9.000	2457.520	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.600	2428.240	2445.840	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

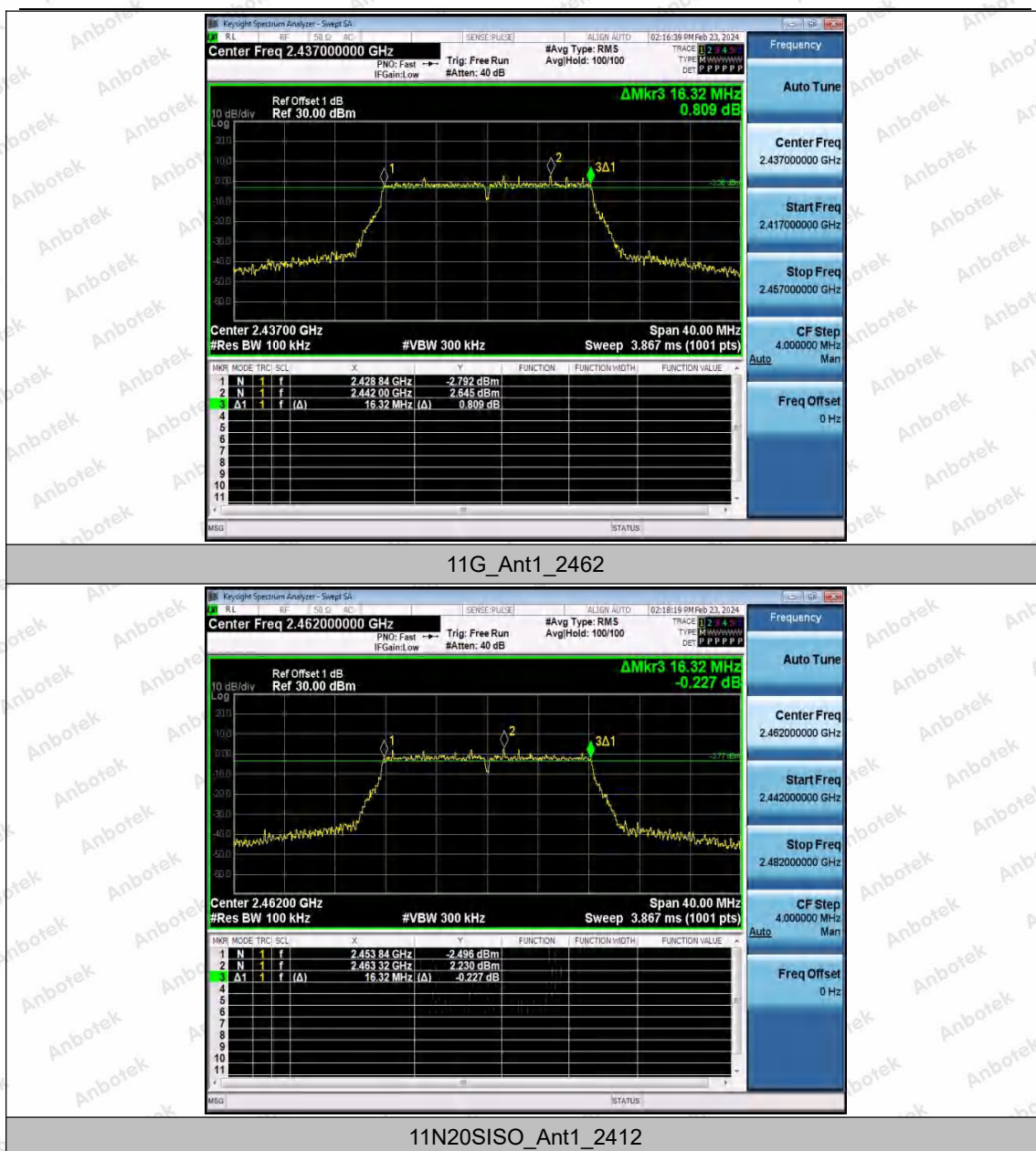
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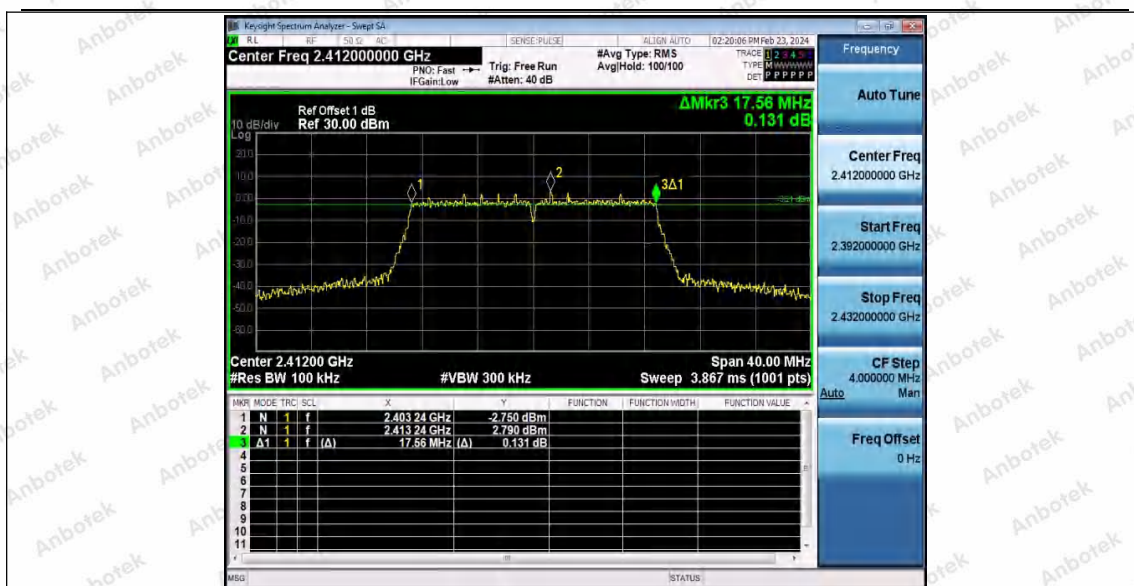
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

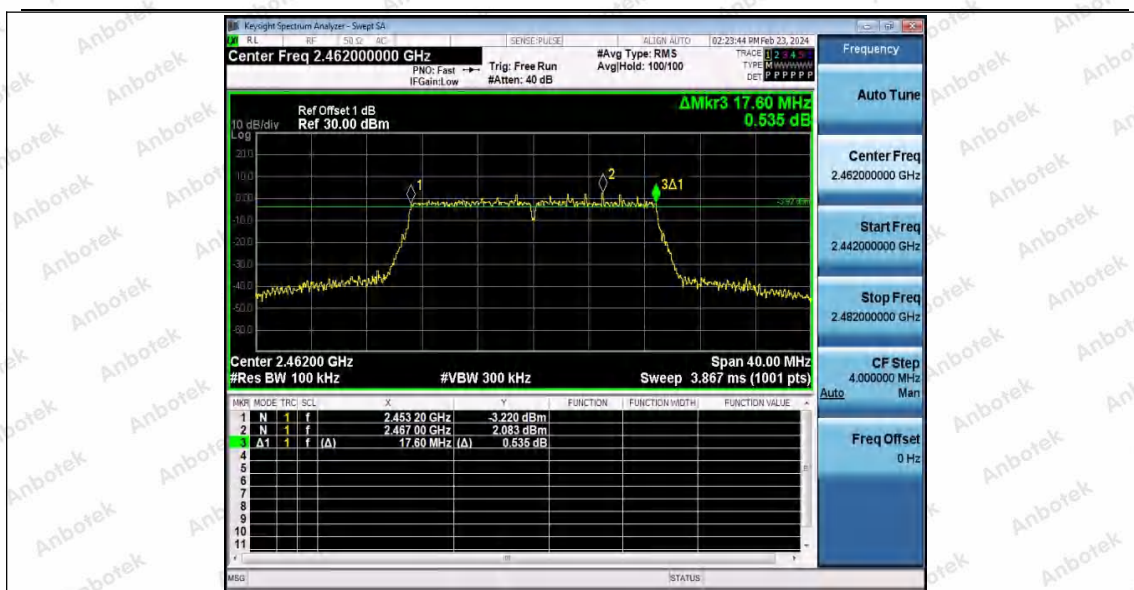
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Appendix B: Occupied Channel Bandwidth

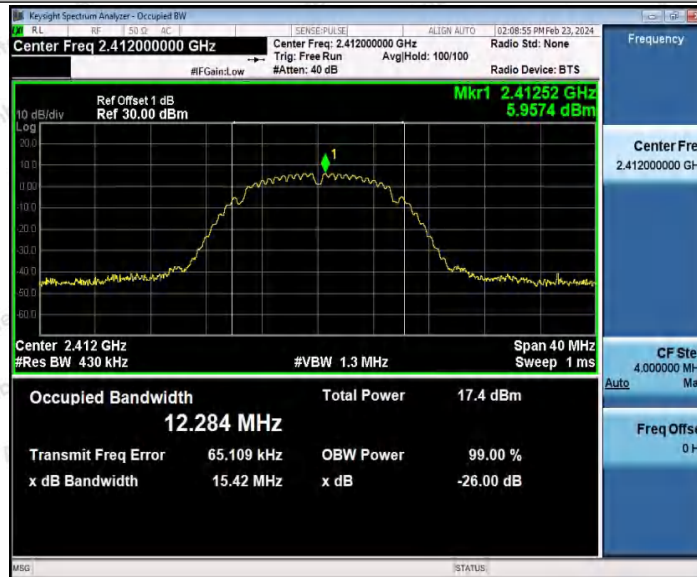
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.284	2405.9231	2418.2071	---	---
		2437	12.292	2430.9081	2443.2001	---	---
		2462	12.280	2455.8937	2468.1737	---	---
11G	Ant1	2412	17.140	2403.4973	2420.6373	---	---
		2437	17.083	2428.4704	2445.5534	---	---
		2462	17.098	2453.5027	2470.6007	---	---
11N20SISO	Ant1	2412	17.951	2403.0896	2421.0406	---	---
		2437	18.020	2428.0228	2446.0428	---	---
		2462	17.958	2453.0601	2471.0181	---	---



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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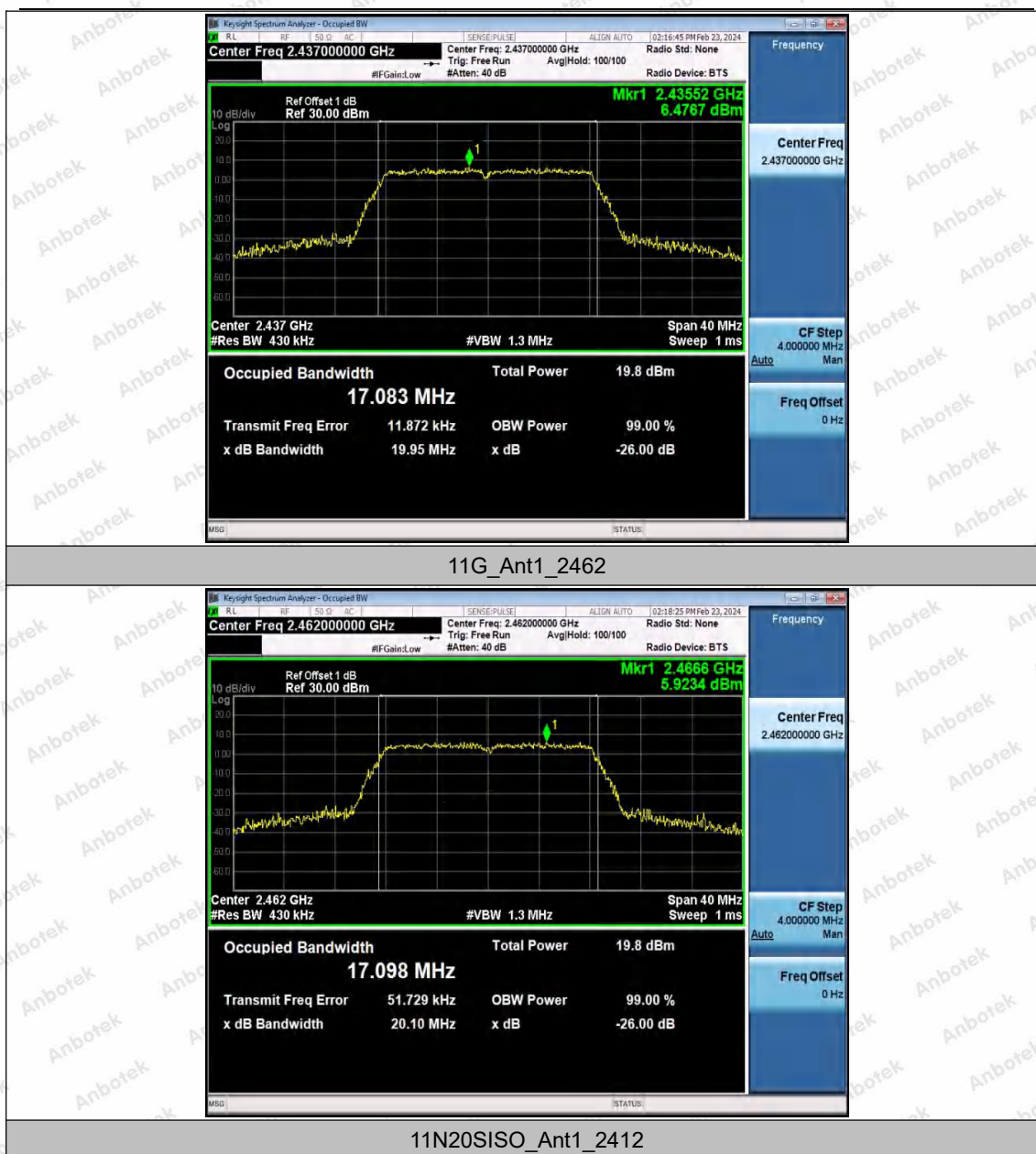
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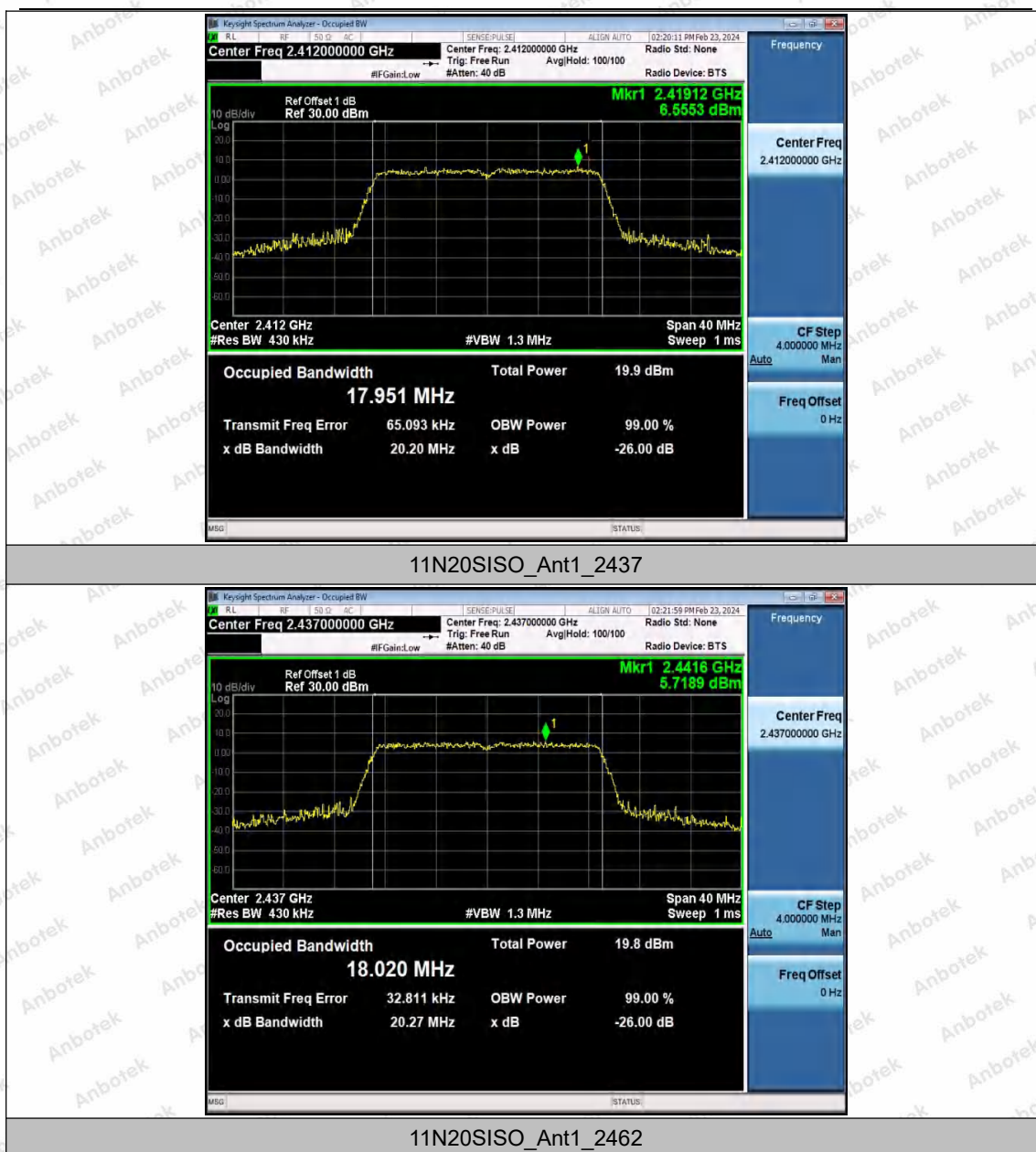
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Appendix C: Maximum conducted output power

Test Result

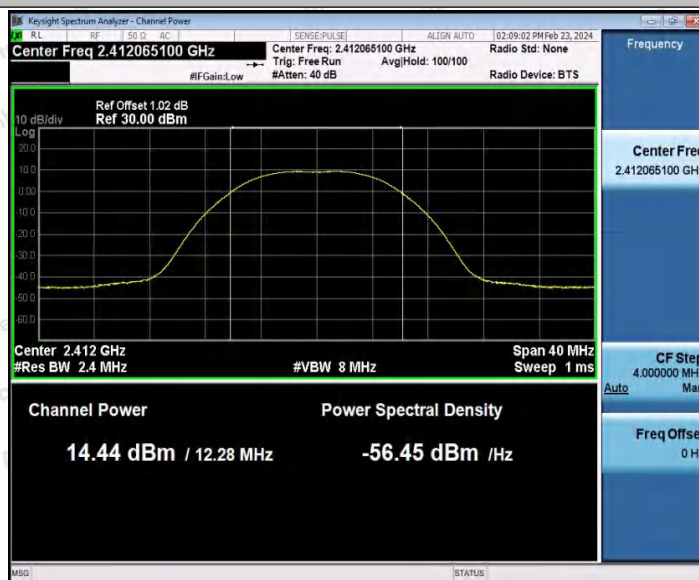
TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.44	≤30.00
		2437	14.65	≤30.00
		2462	14.43	≤30.00
11G	Ant1	2412	13.76	≤30.00
		2437	13.69	≤30.00
		2462	13.62	≤30.00
11N20SISO	Ant1	2412	13.76	≤30.00
		2437	13.64	≤30.00
		2462	13.54	≤30.00

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

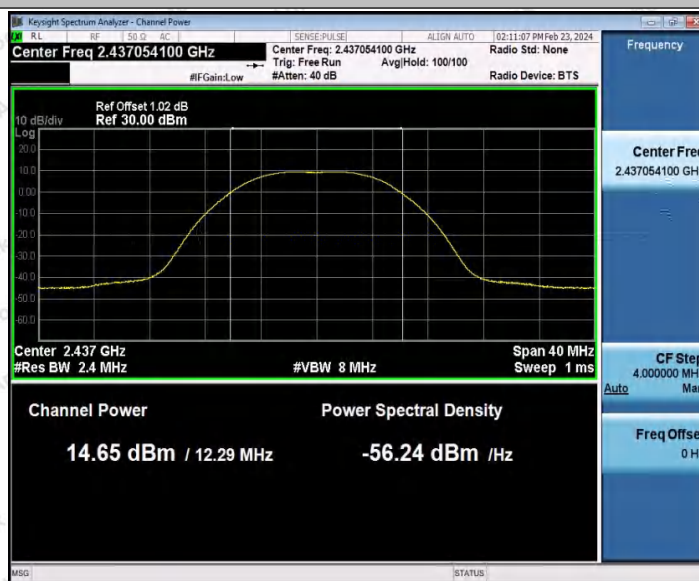


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

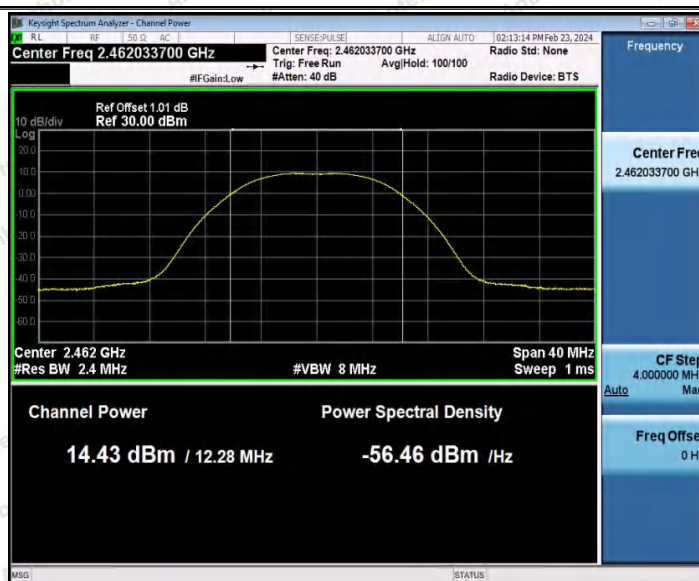
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11G_Ant1_2412



11G_Ant1_2437

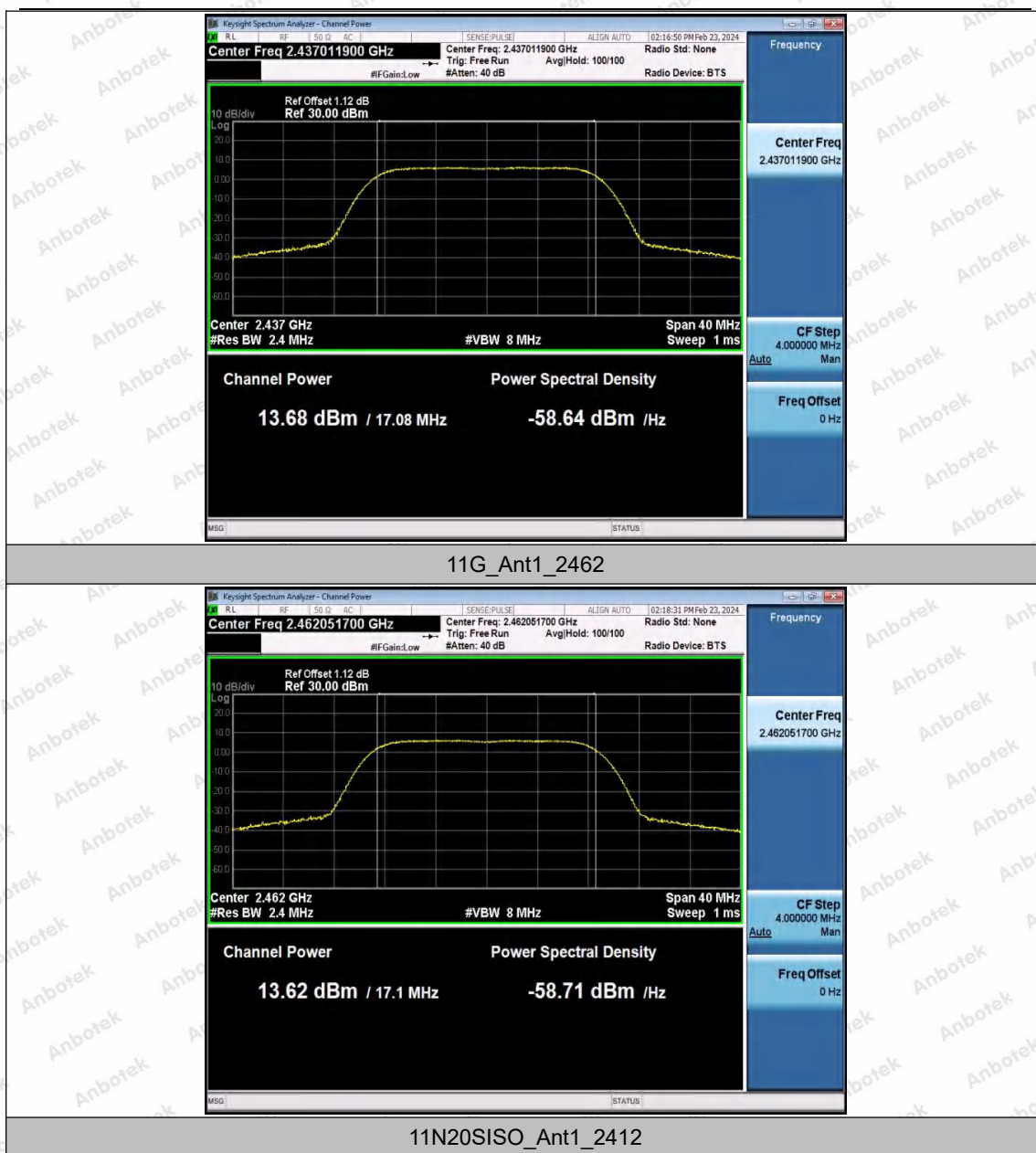
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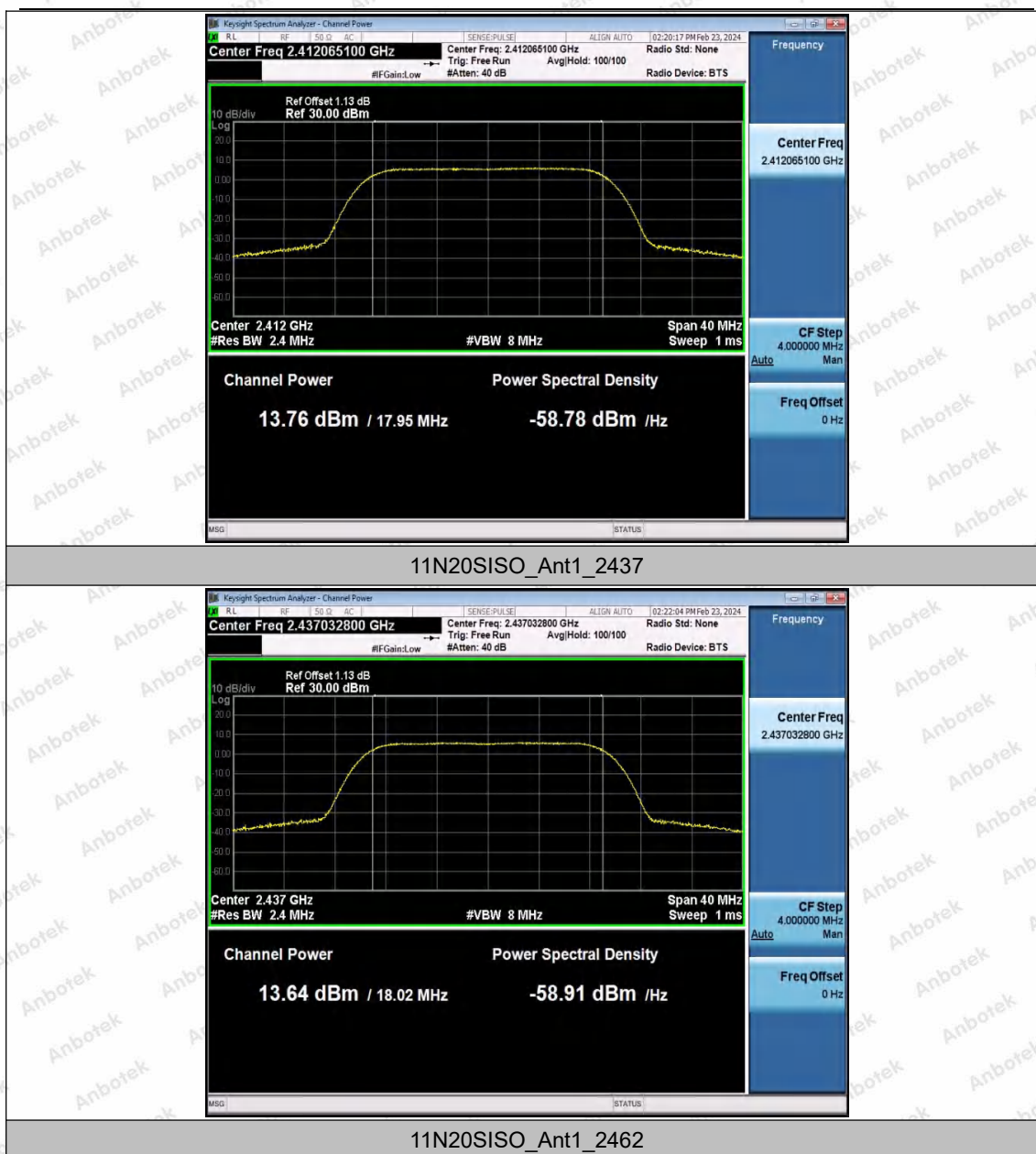
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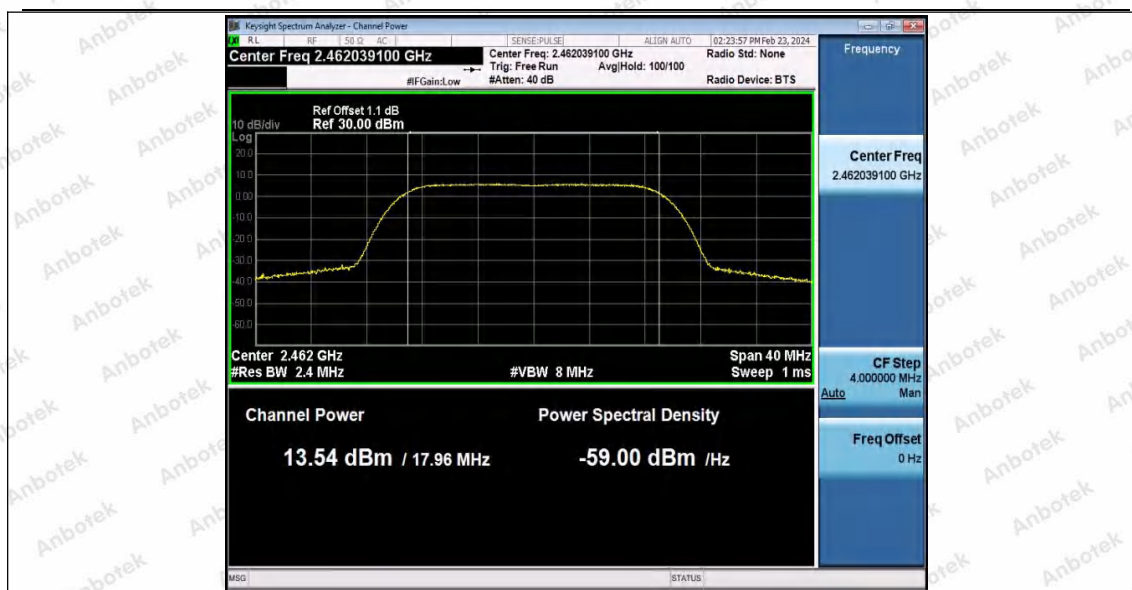
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.50	-17.50	≤8.00	PASS
		2437	-7.17	-17.17	≤8.00	PASS
		2462	-7.39	-17.39	≤8.00	PASS
11G	Ant1	2412	-10.58	-20.58	≤8.00	PASS
		2437	-10.69	-20.69	≤8.00	PASS
		2462	-10.44	-20.44	≤8.00	PASS
11N20SISO	Ant1	2412	-10.68	-20.68	≤8.00	PASS
		2437	-11.22	-21.22	≤8.00	PASS
		2462	-10.62	-20.62	≤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

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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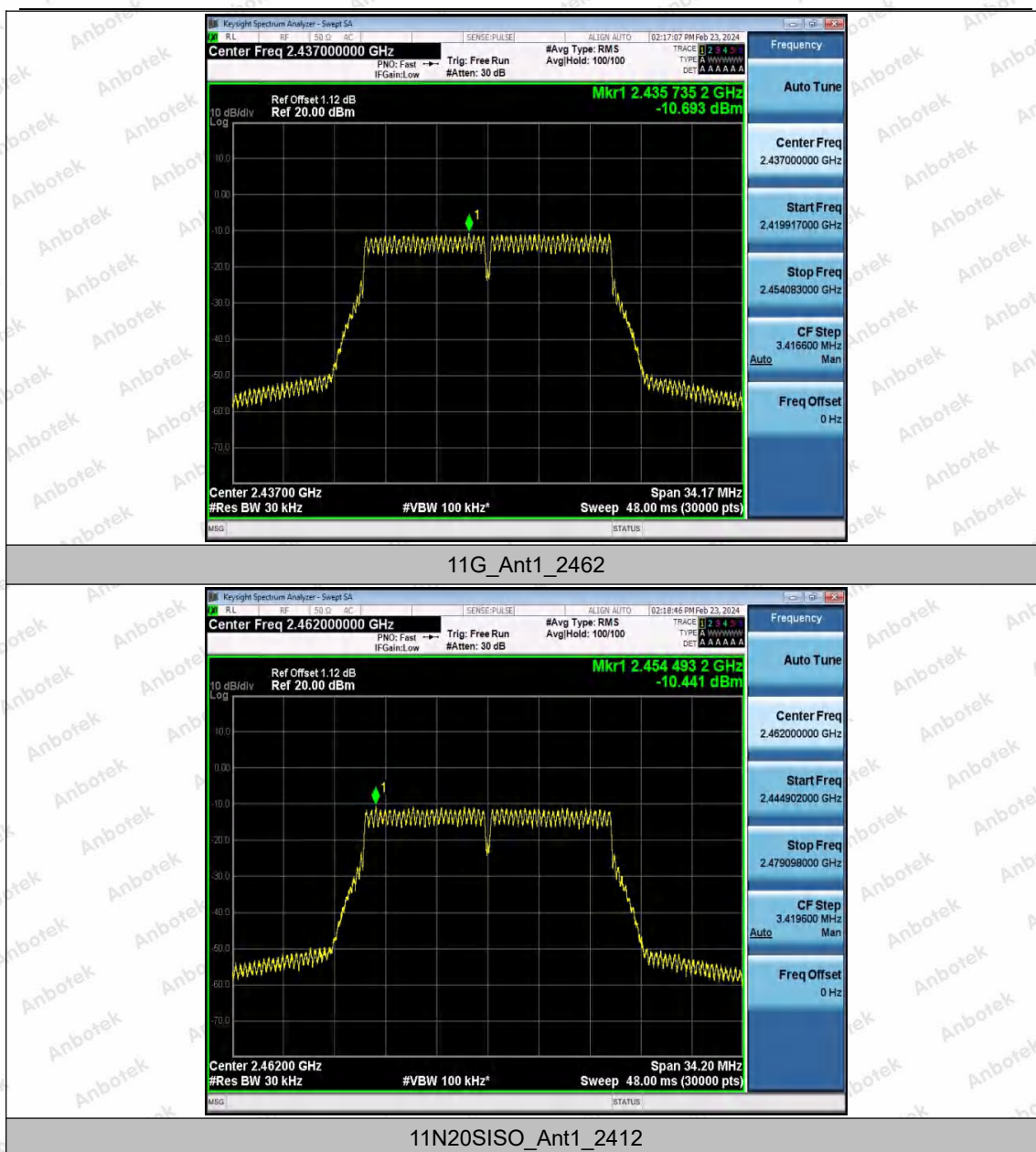
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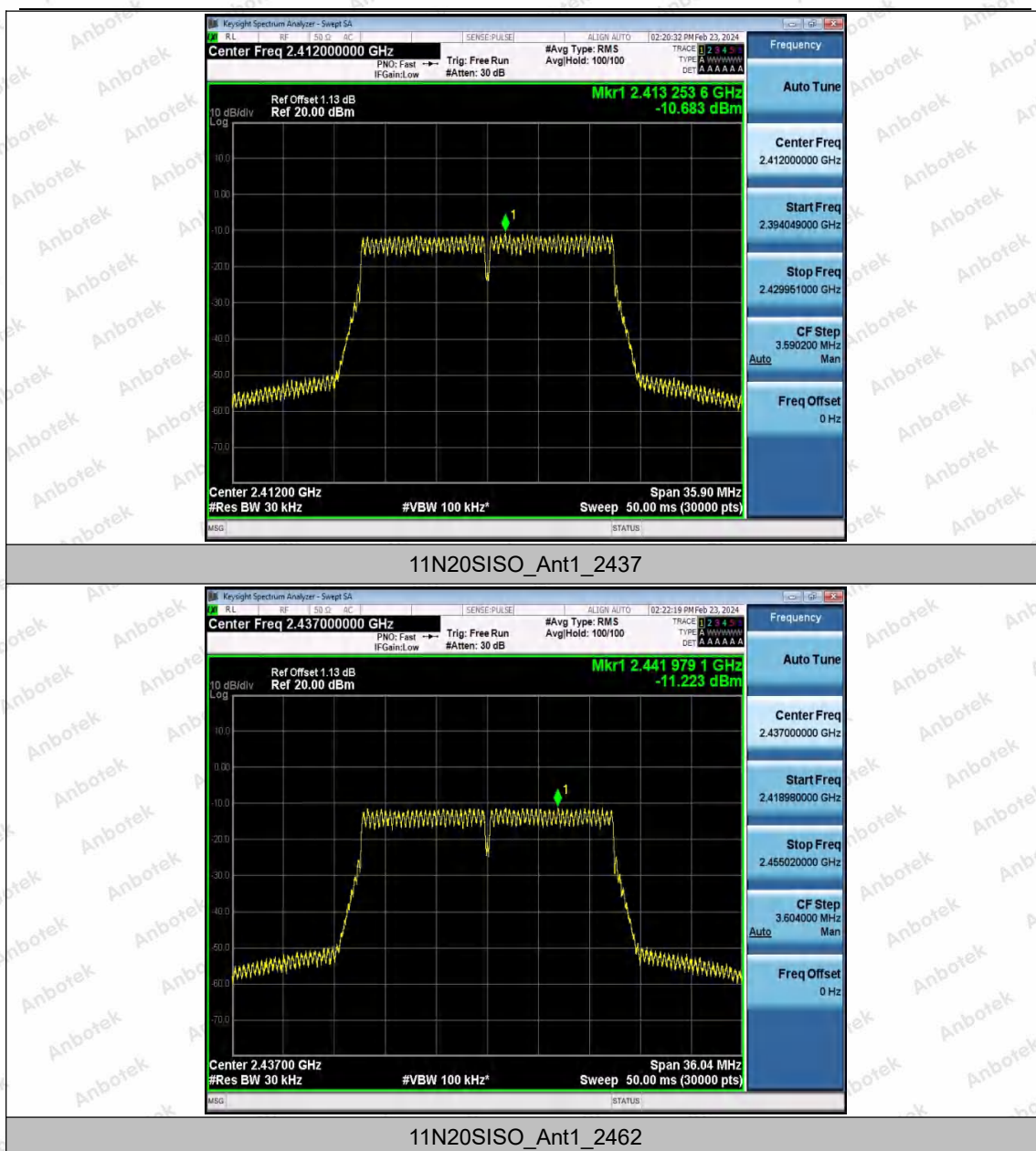
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Appendix E: Band edge measurements

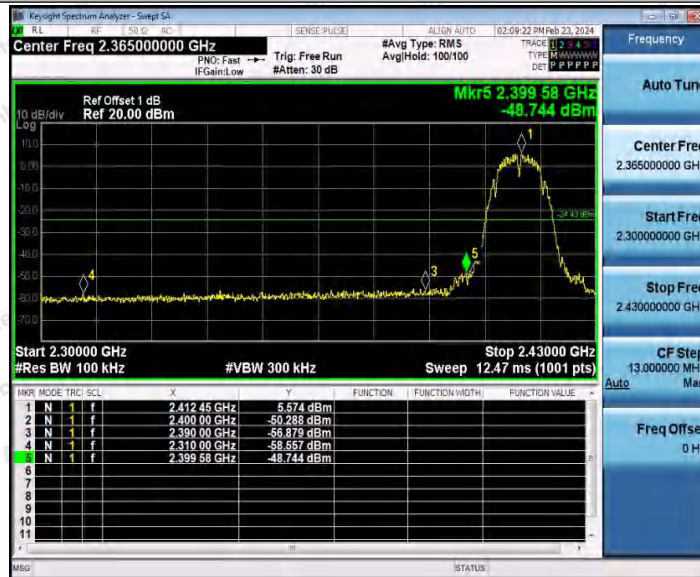
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.57	-48.74	≤-24.43	PASS
		High	2462	5.07	-55.03	≤-24.93	PASS
11G	Ant1	Low	2412	2.53	-34.56	≤-27.48	PASS
		High	2462	2.44	-47.82	≤-27.56	PASS
11N20SISO	Ant1	Low	2412	2.48	-35.8	≤-27.52	PASS
		High	2462	2.83	-46.94	≤-27.17	PASS

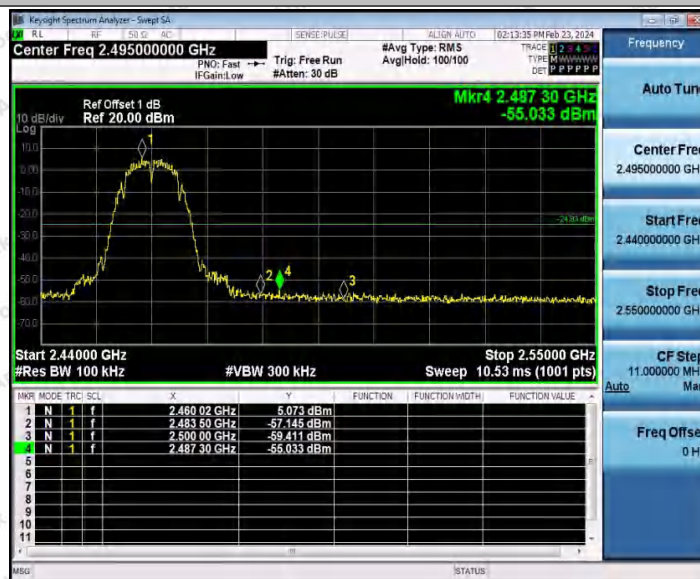


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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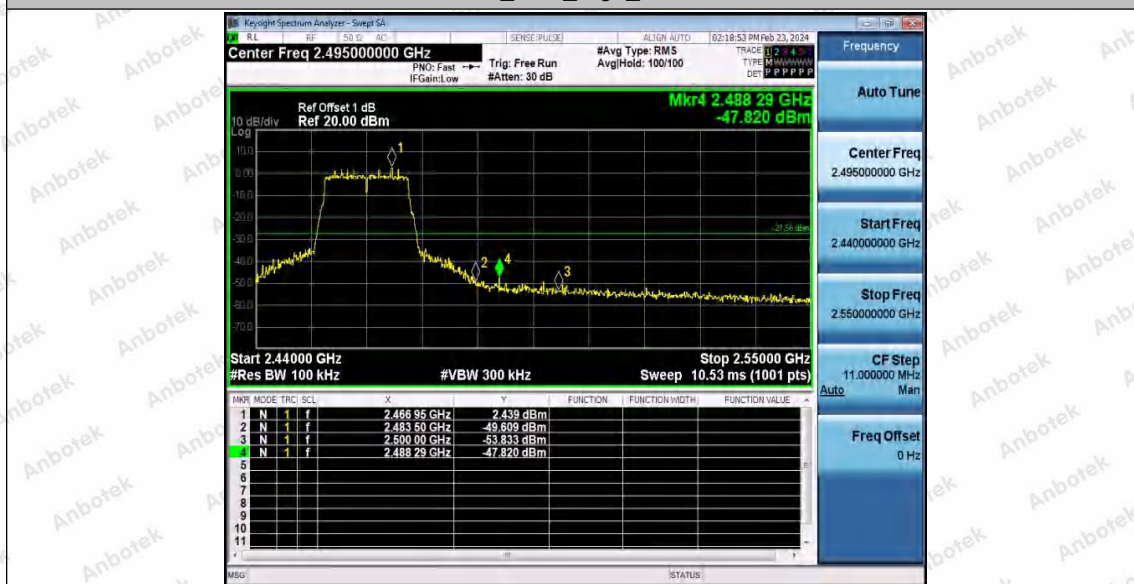
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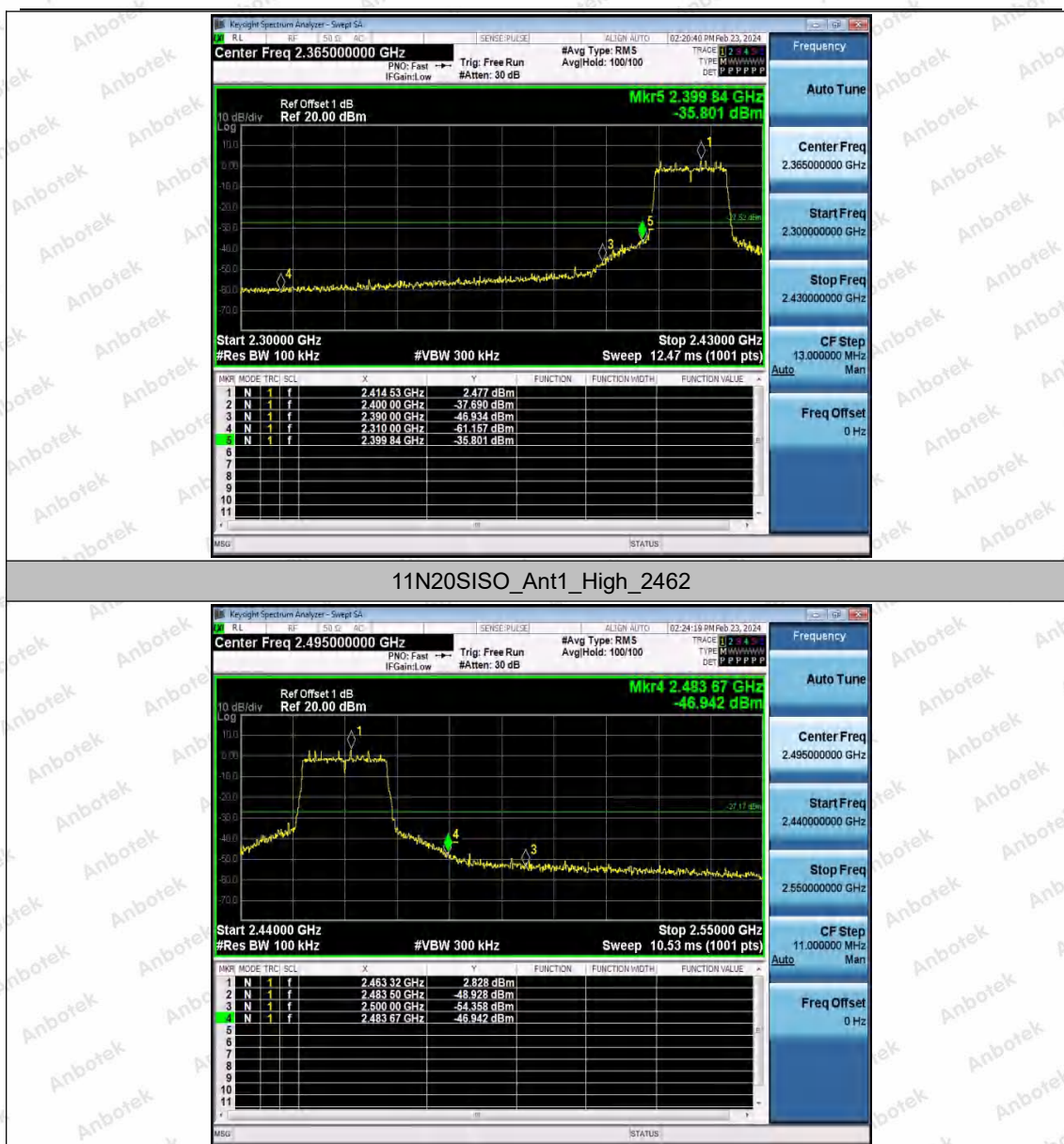


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412





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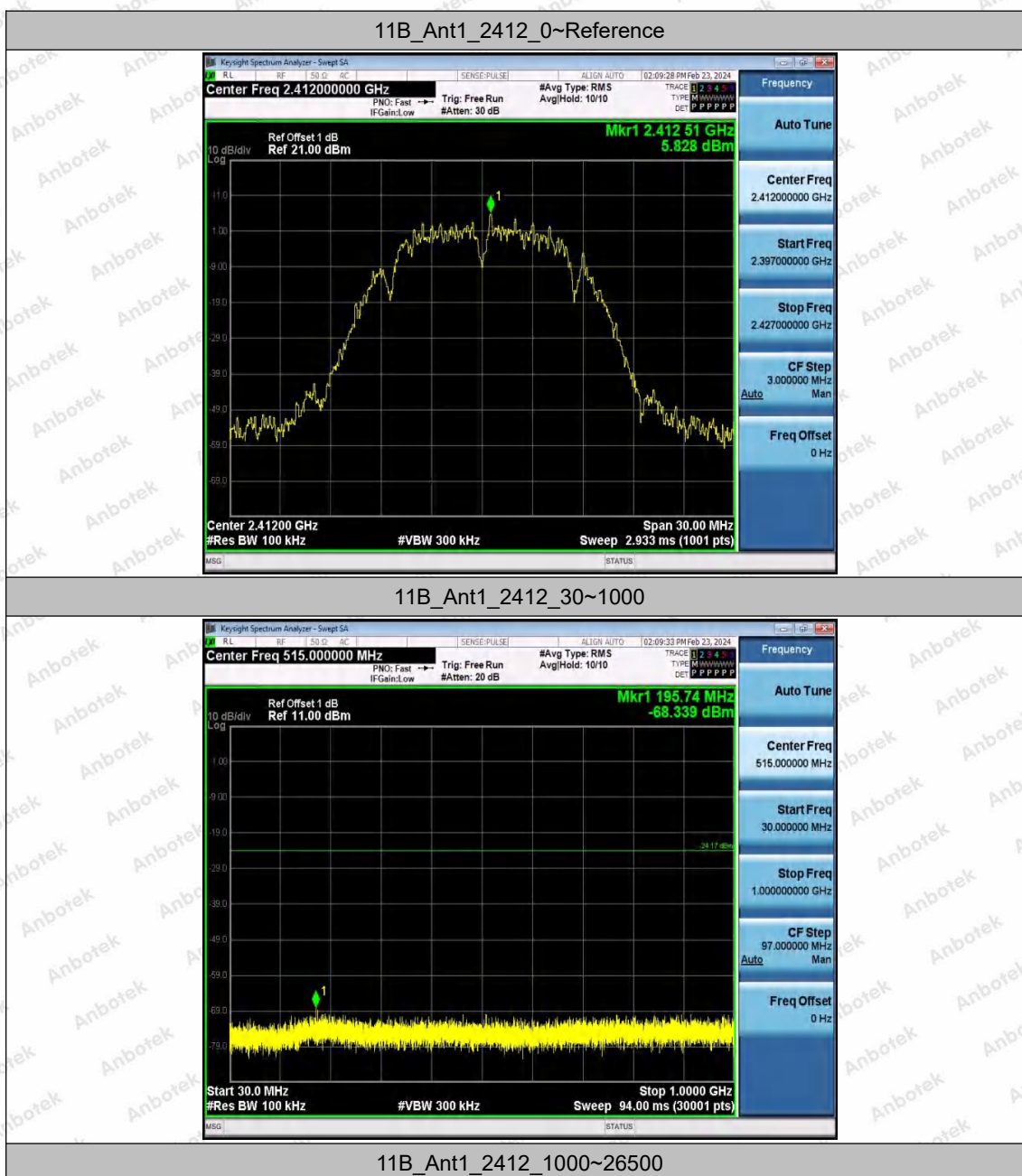
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.83	5.83	---	PASS
			30~1000	5.83	-68.34	≤-24.17	PASS
			1000~26500	5.83	-53.87	≤-24.17	PASS
		2437	Reference	4.21	4.21	---	PASS
			30~1000	4.21	-68.03	≤-25.79	PASS
			1000~26500	4.21	-53.5	≤-25.79	PASS
		2462	Reference	3.77	3.77	---	PASS
			30~1000	3.77	-69.18	≤-26.23	PASS
			1000~26500	3.77	-53.45	≤-26.23	PASS
11G	Ant1	2412	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-69.05	≤-30.82	PASS
			1000~26500	-0.82	-53.72	≤-30.82	PASS
		2437	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-68.26	≤-30.65	PASS
			1000~26500	-0.65	-53.29	≤-30.65	PASS
		2462	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-69.24	≤-28.99	PASS
			1000~26500	1.01	-53.57	≤-28.99	PASS
11N20SISO	Ant1	2412	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-68.73	≤-27.43	PASS
			1000~26500	2.57	-52.33	≤-27.43	PASS
		2437	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-69.02	≤-29.85	PASS
			1000~26500	0.15	-52.91	≤-29.85	PASS
		2462	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-68.74	≤-29.45	PASS
			1000~26500	0.55	-53.73	≤-29.45	PASS



Test Graphs



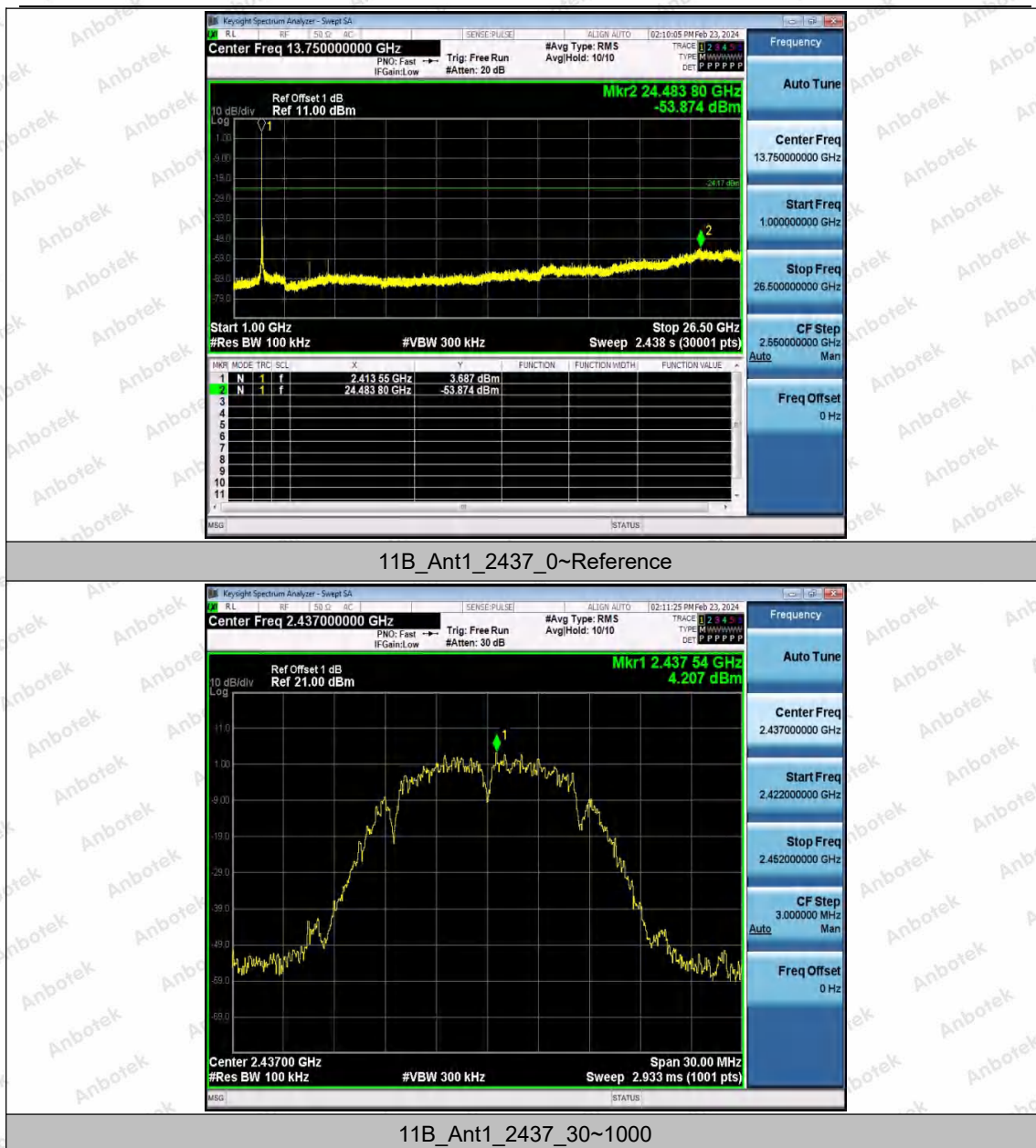
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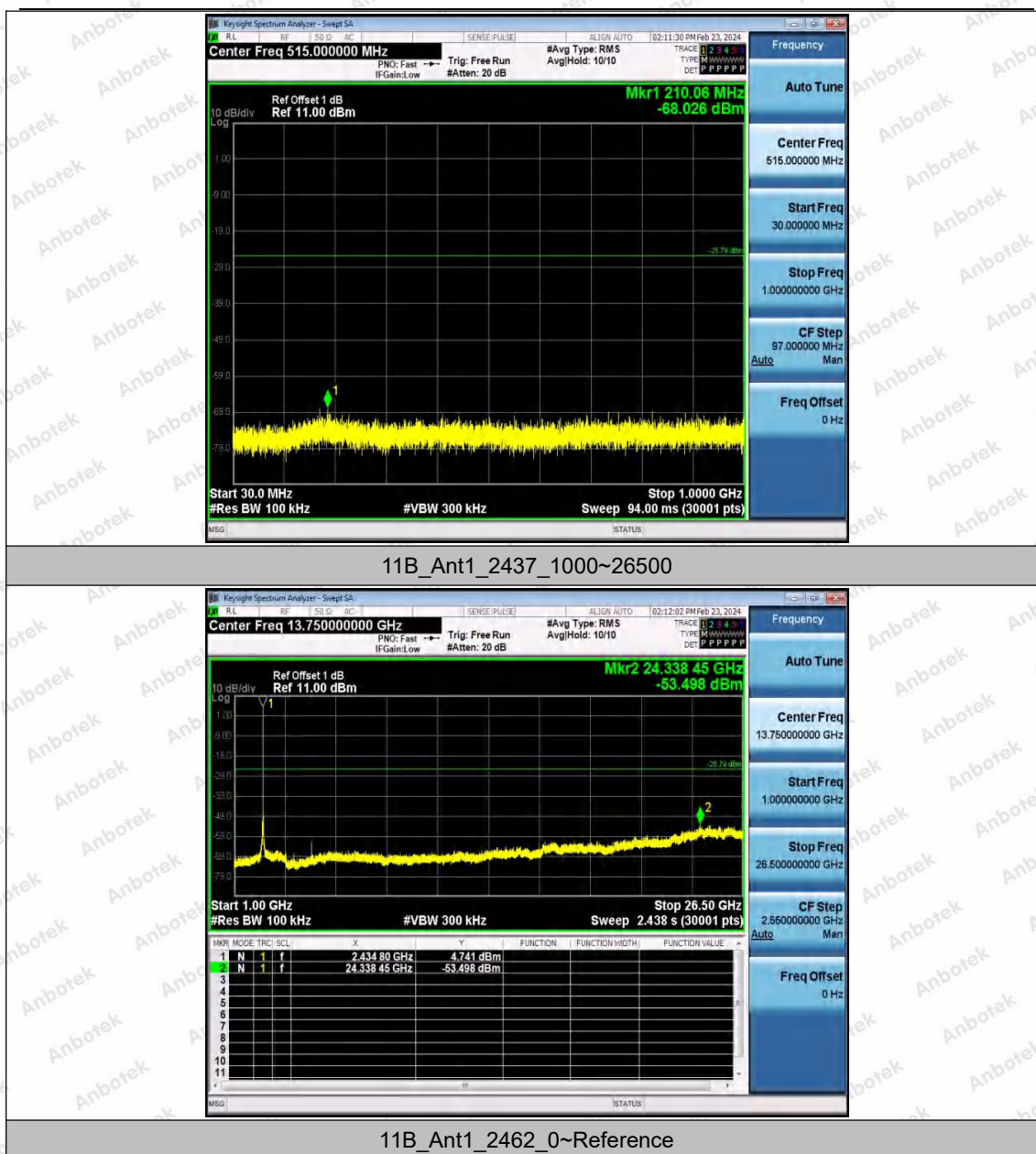
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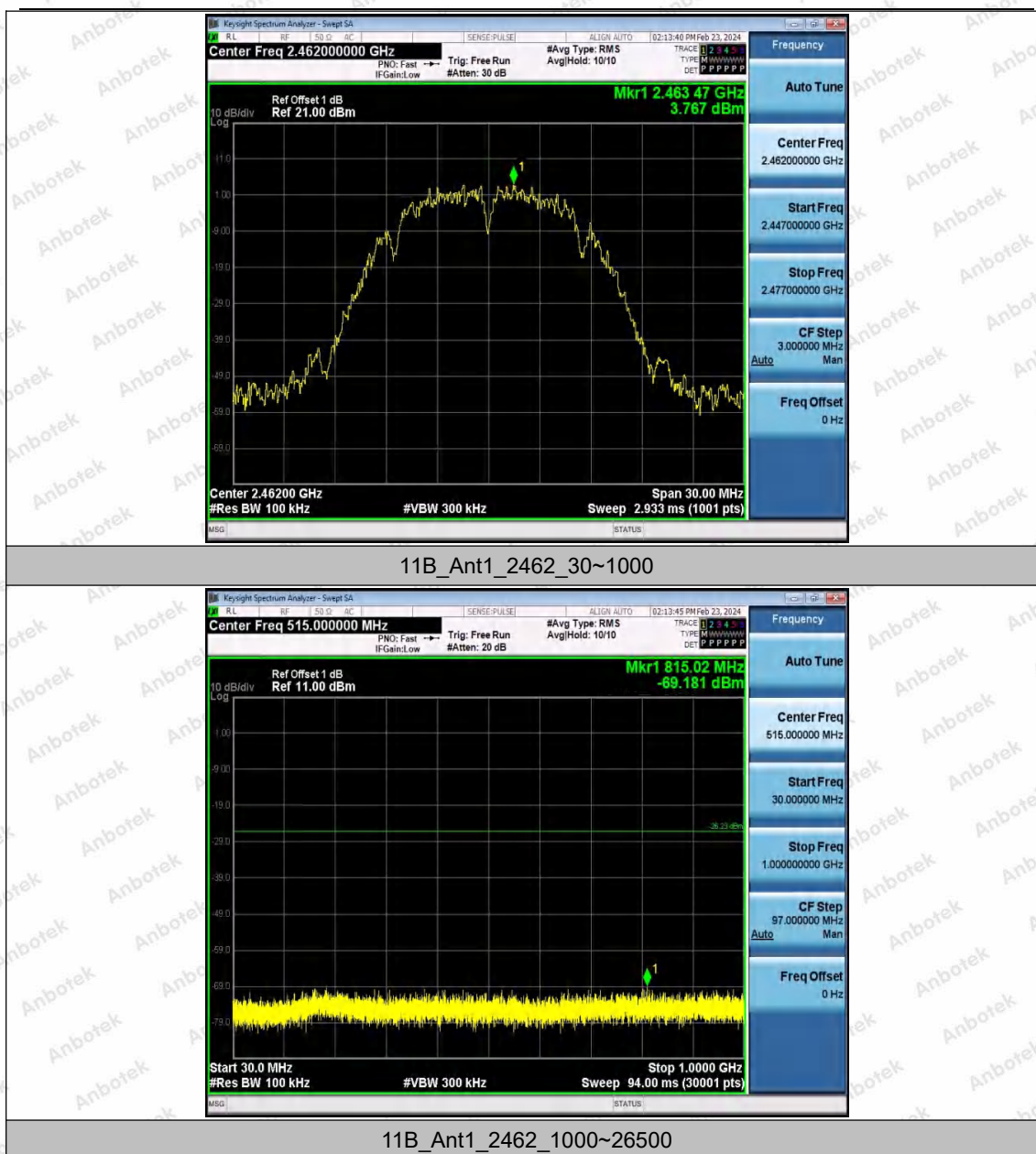
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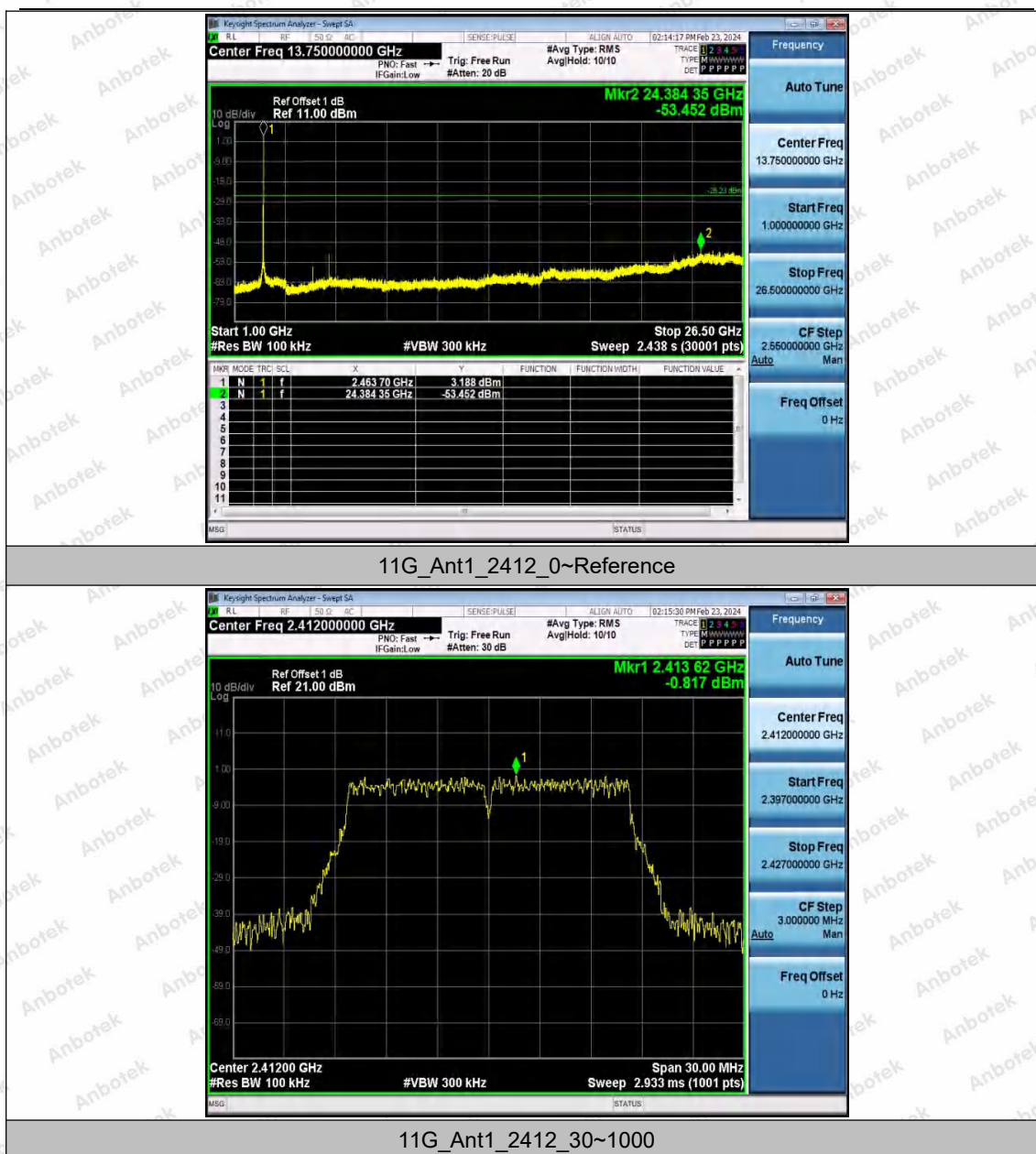
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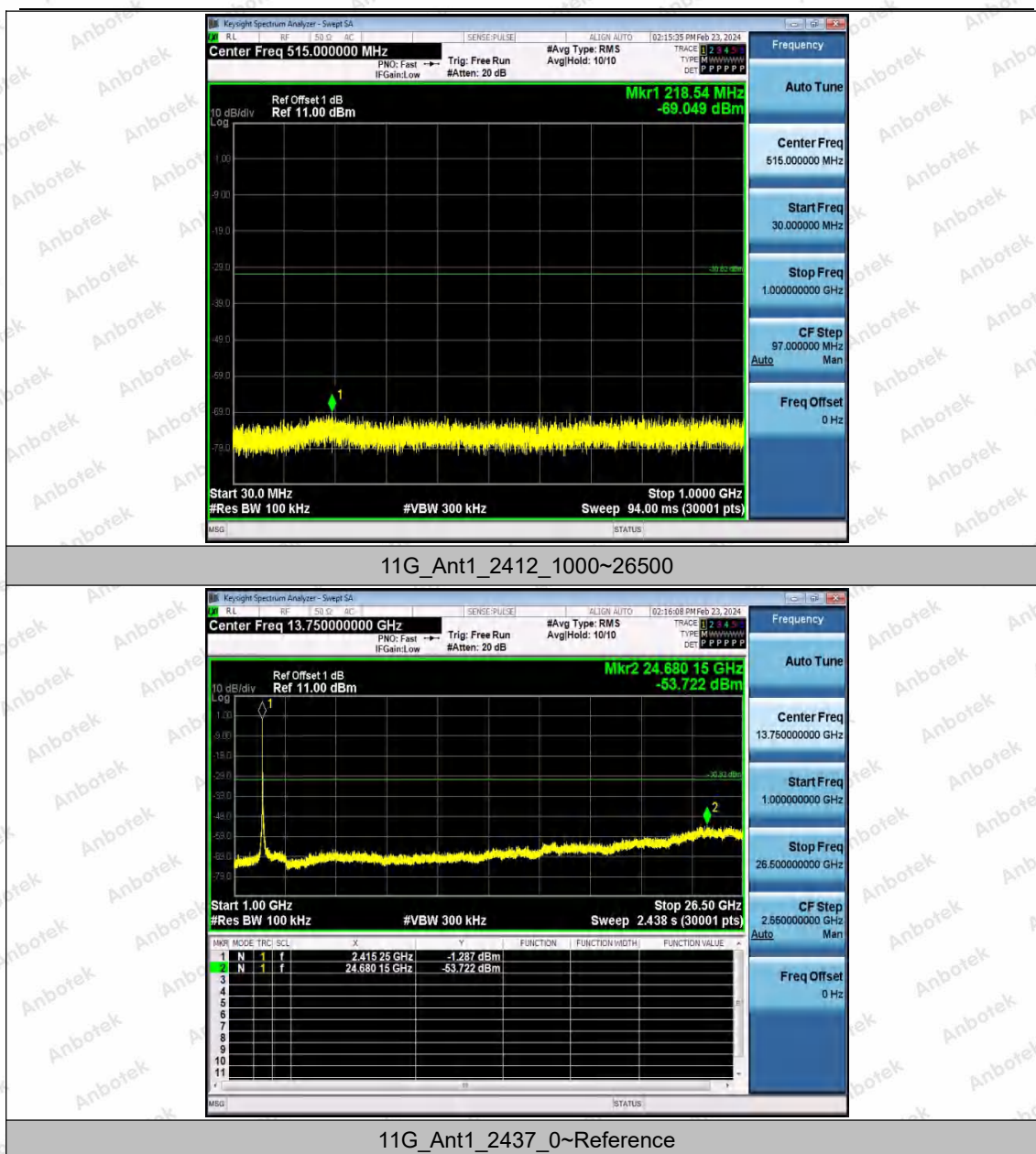
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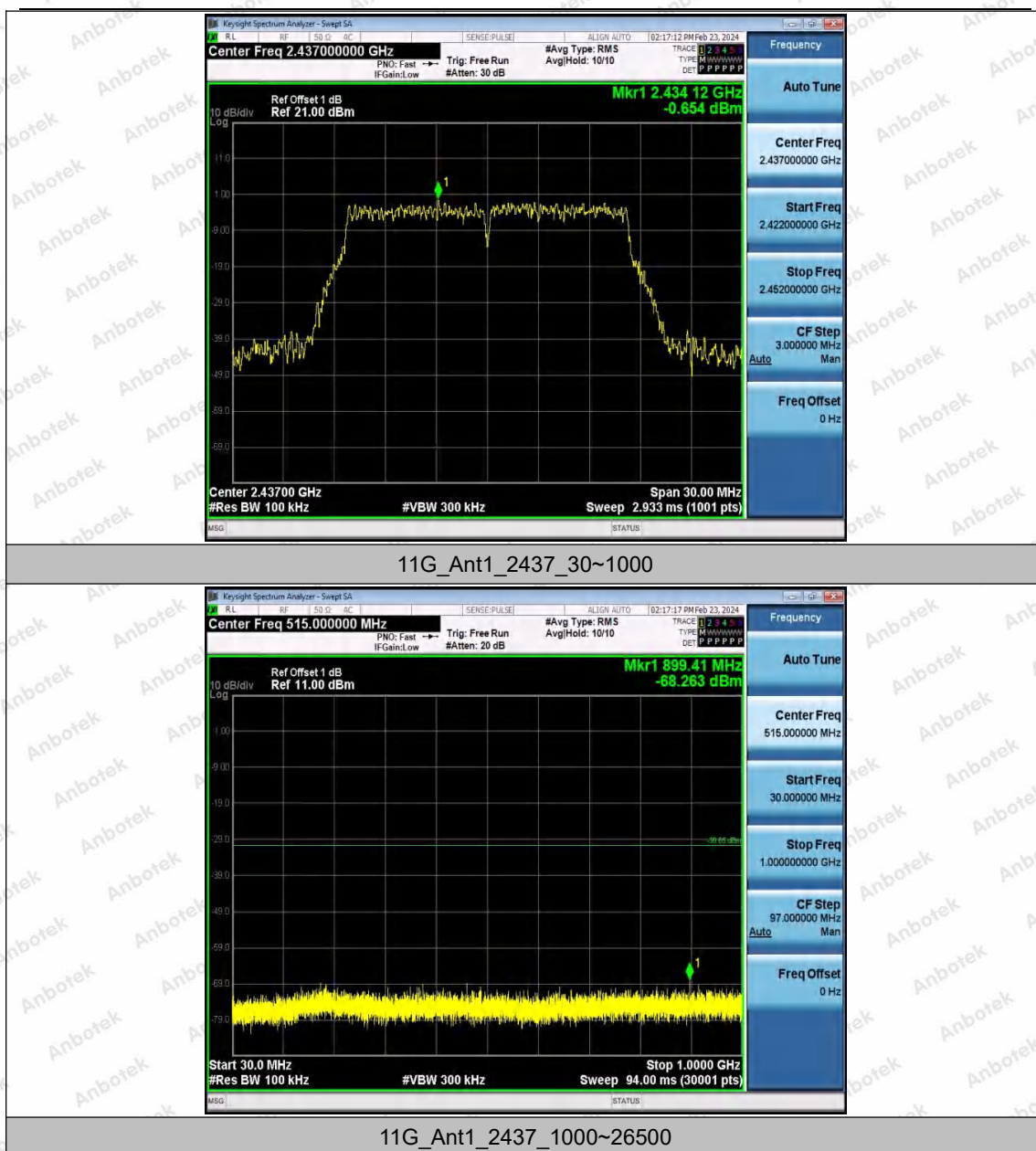
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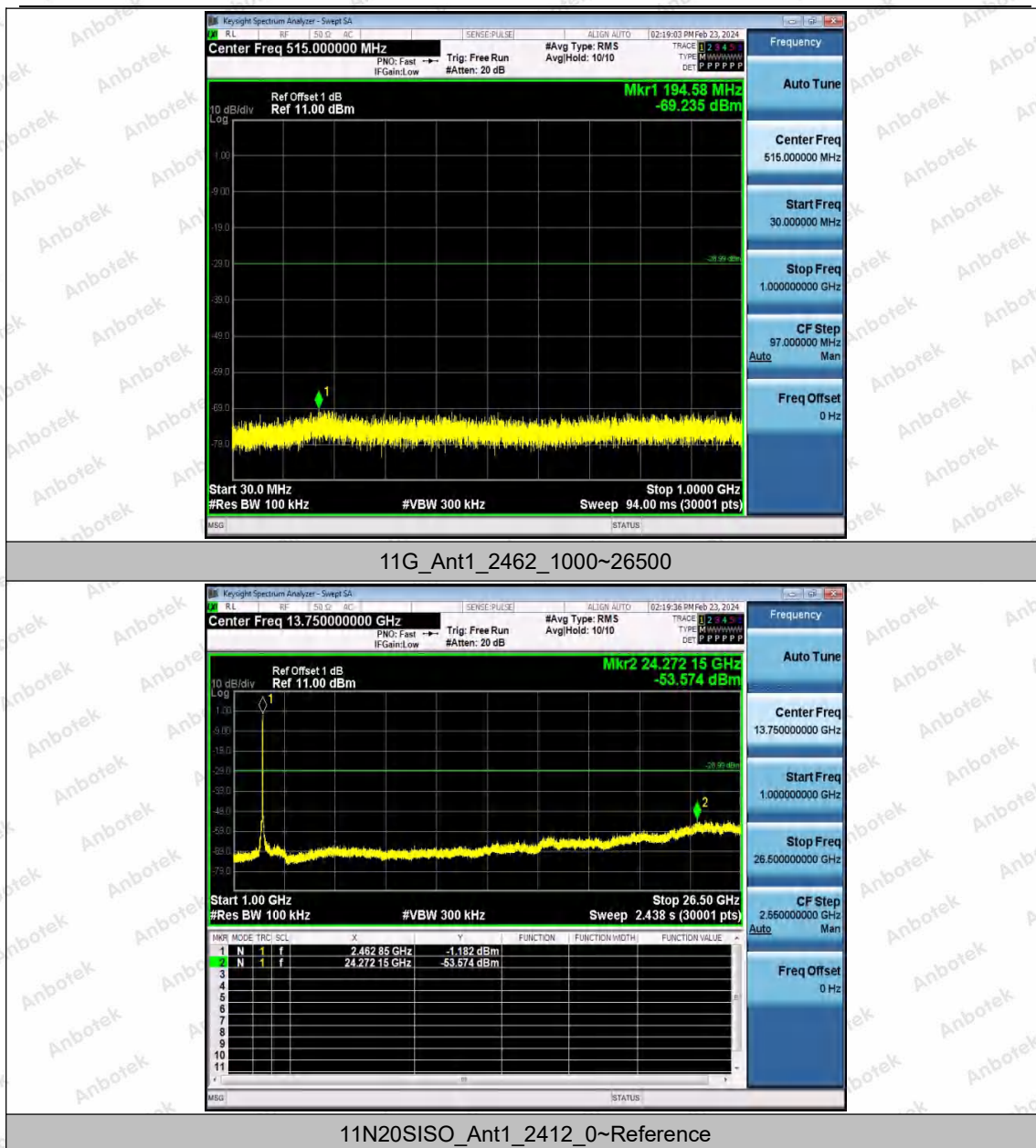
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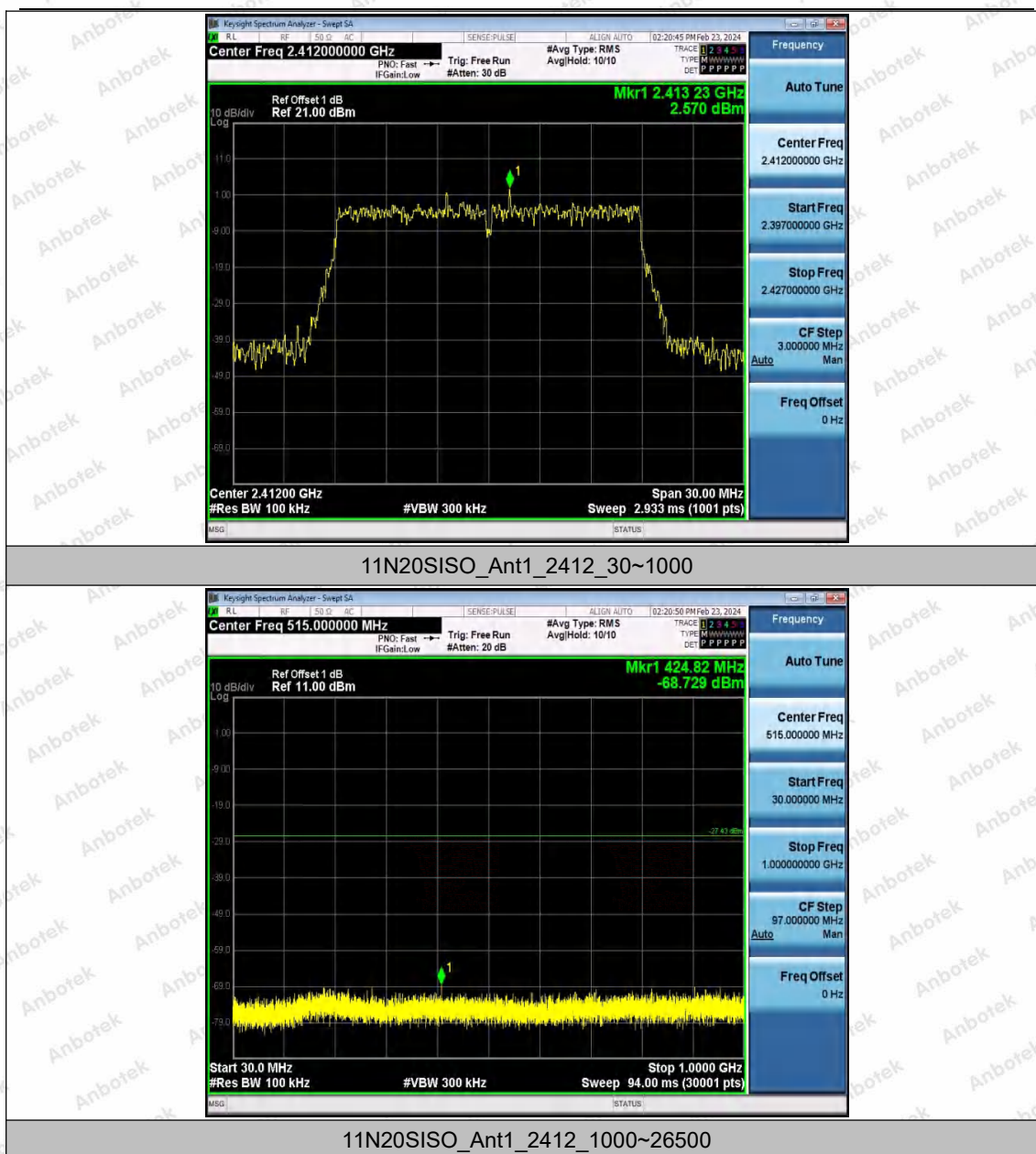
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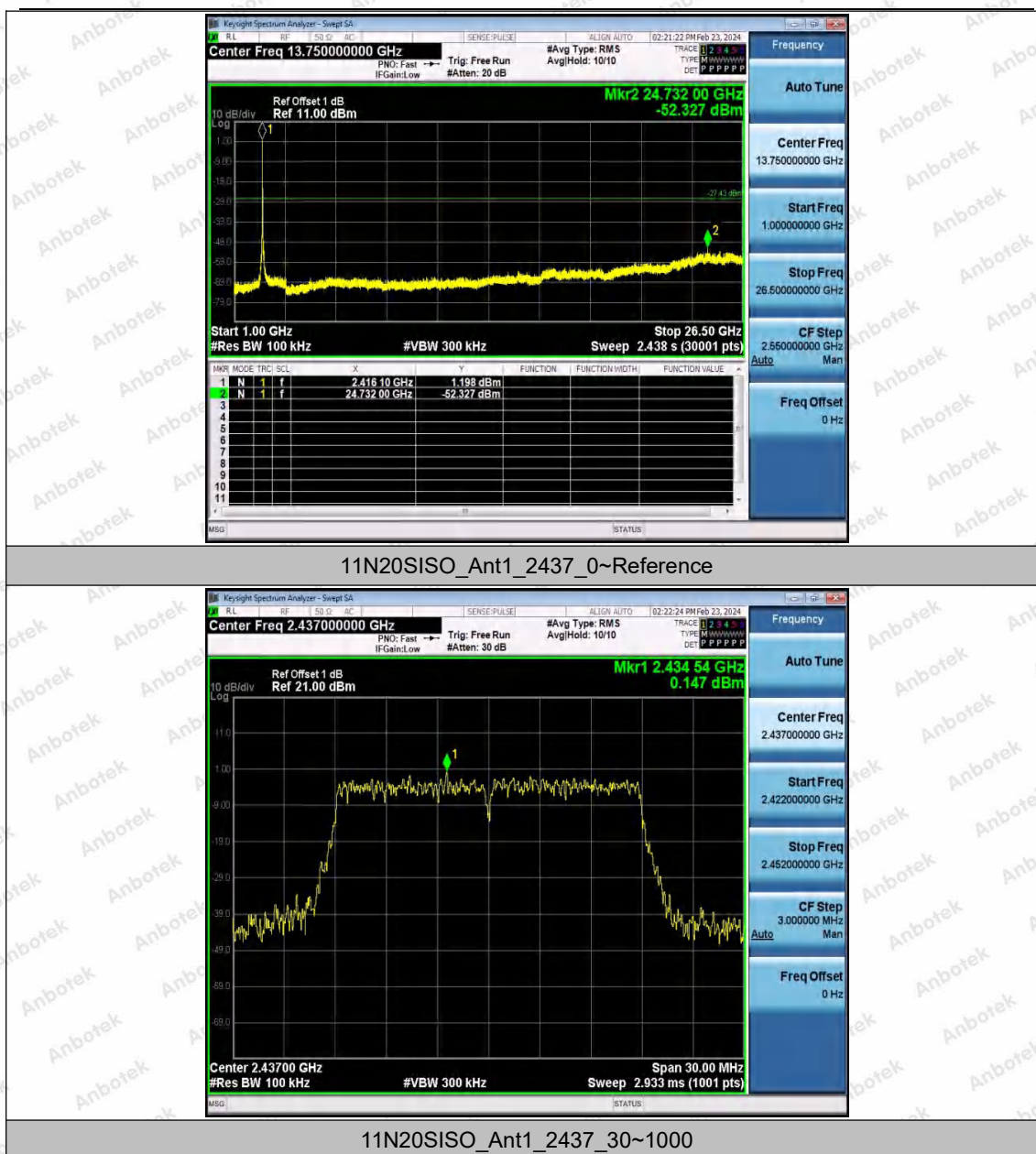
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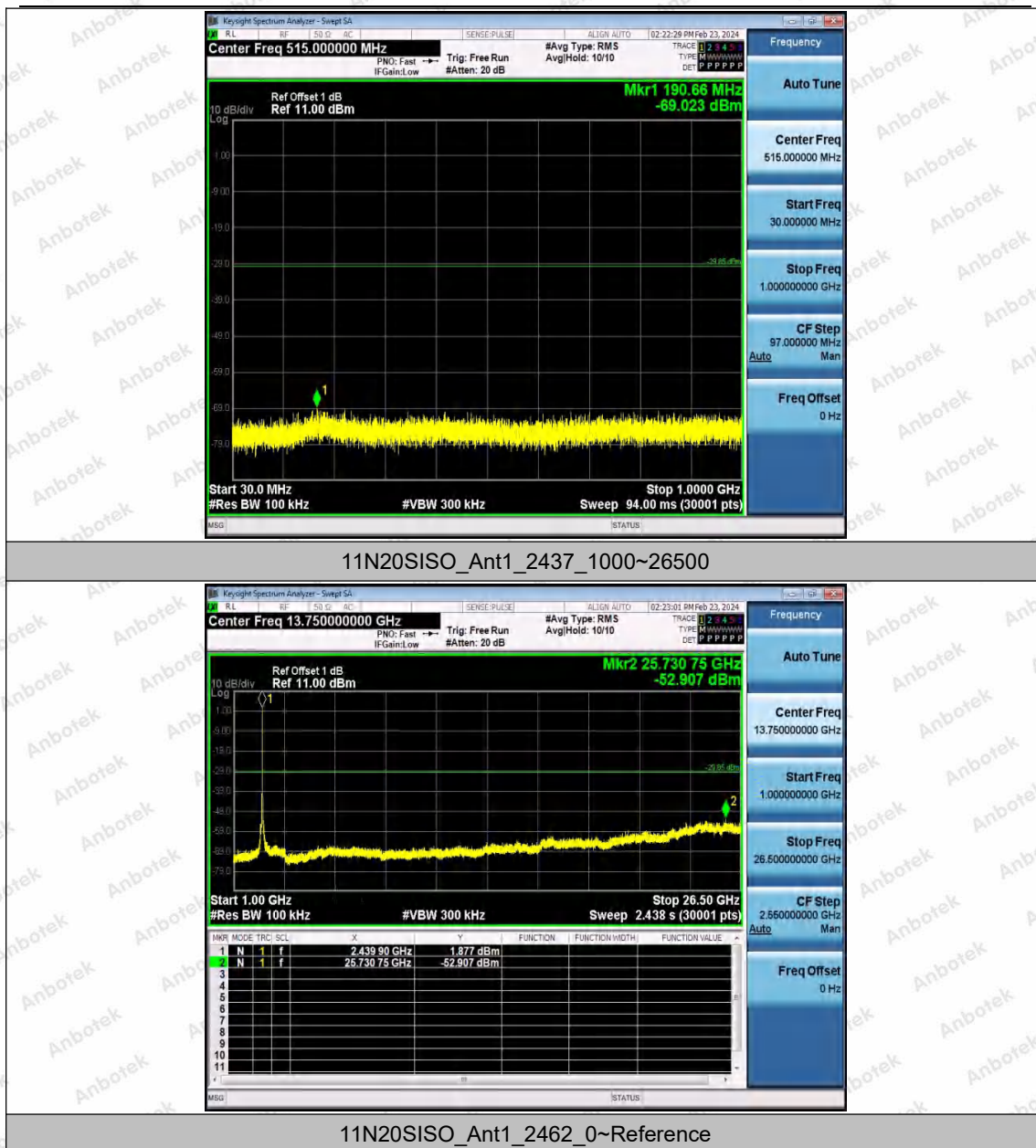
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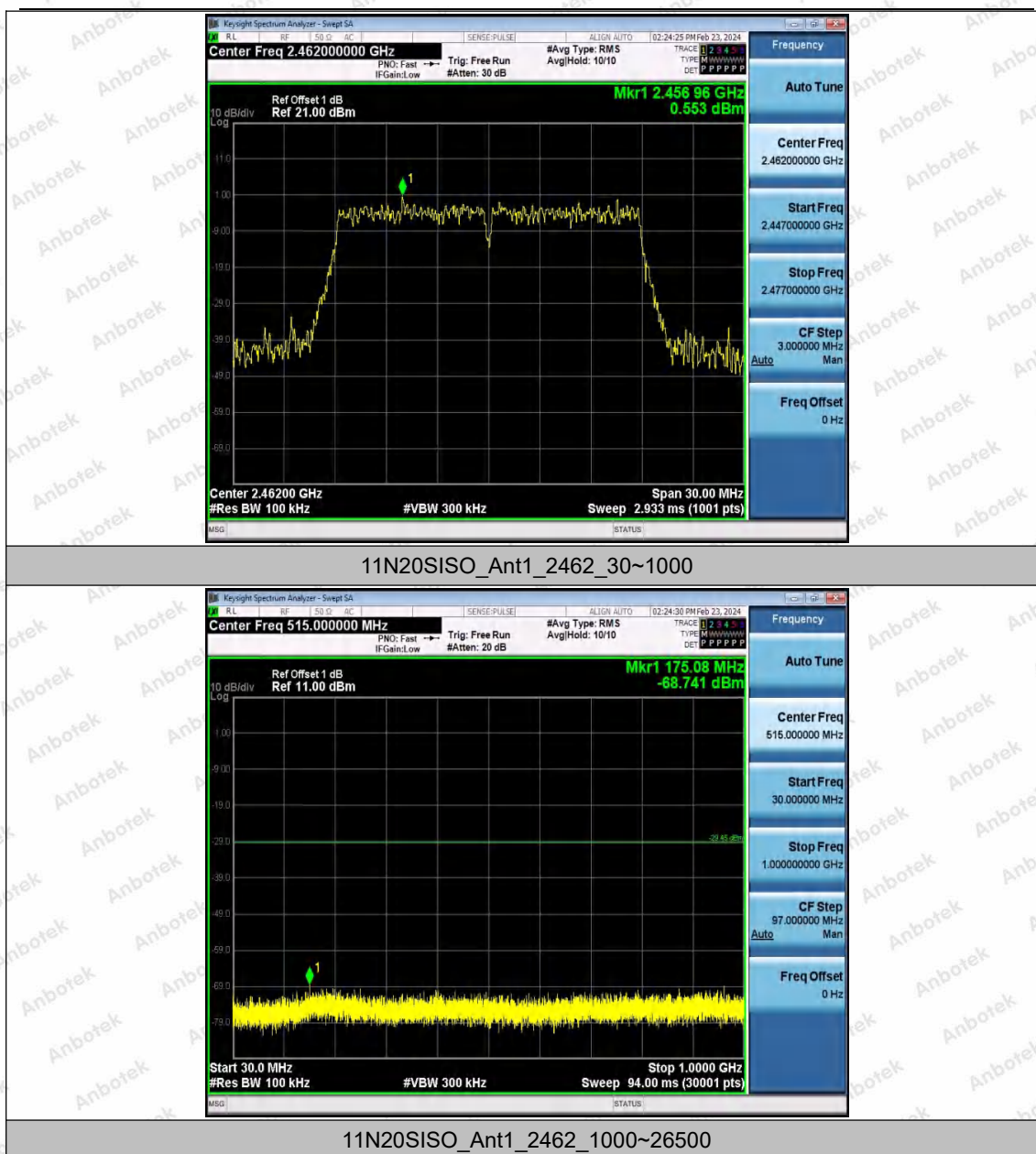
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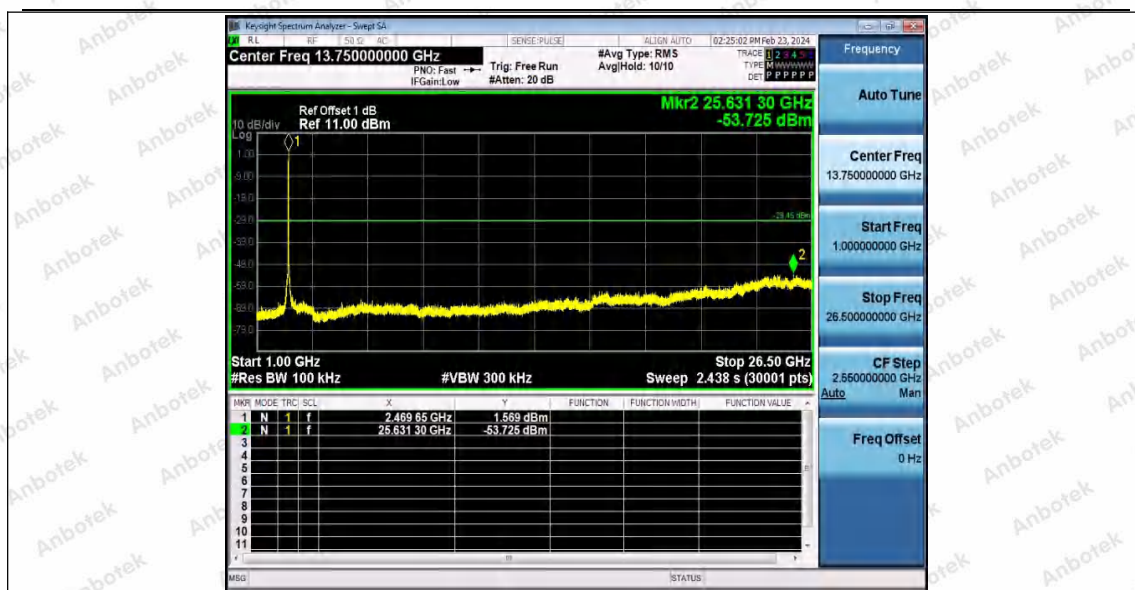
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Appendix G: Duty Cycle

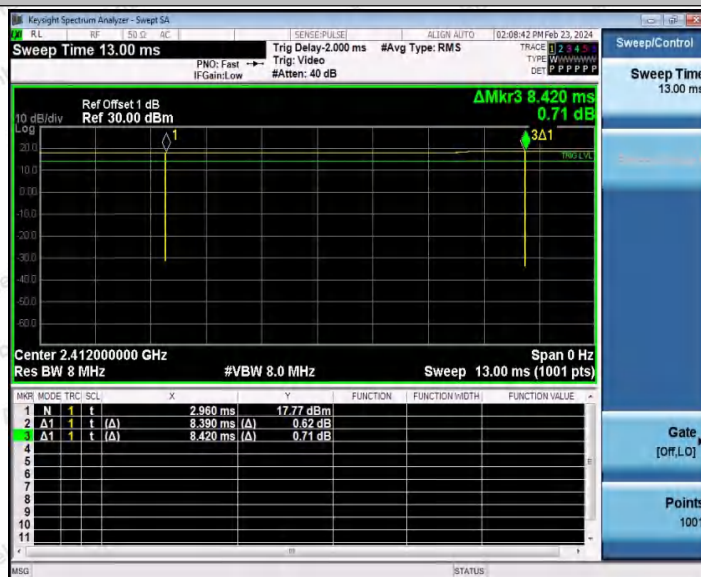
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
		2437	8.38	8.41	99.64	0.02
		2462	8.39	8.41	99.76	0.01
11G	Ant1	2412	1.39	1.42	97.89	0.09
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.43	97.20	0.12
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.33	97.74	0.10

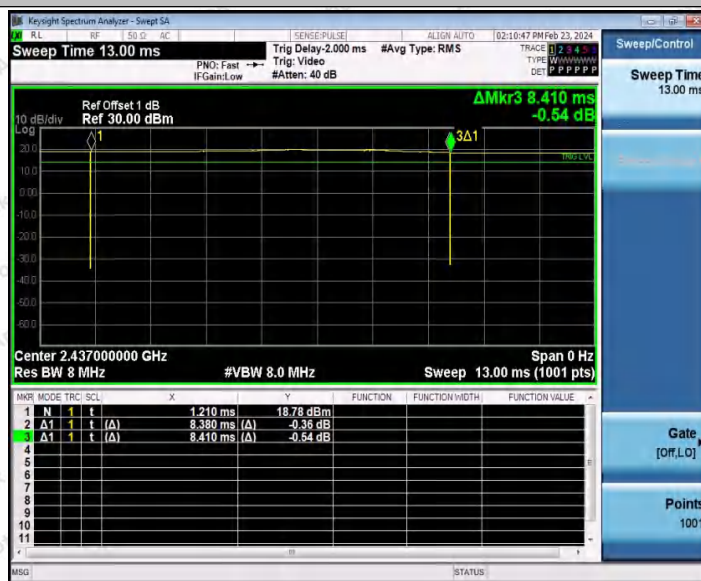


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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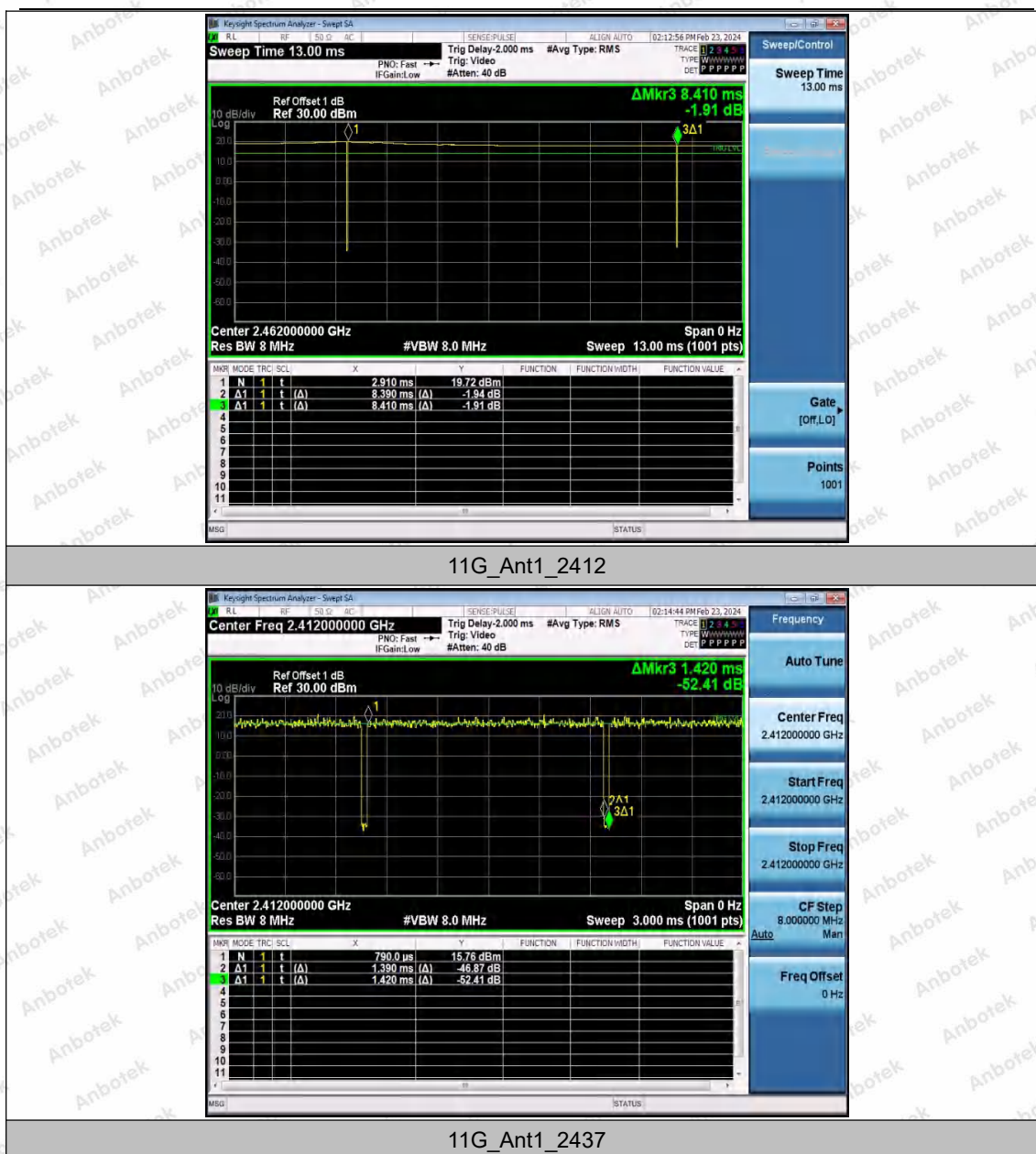


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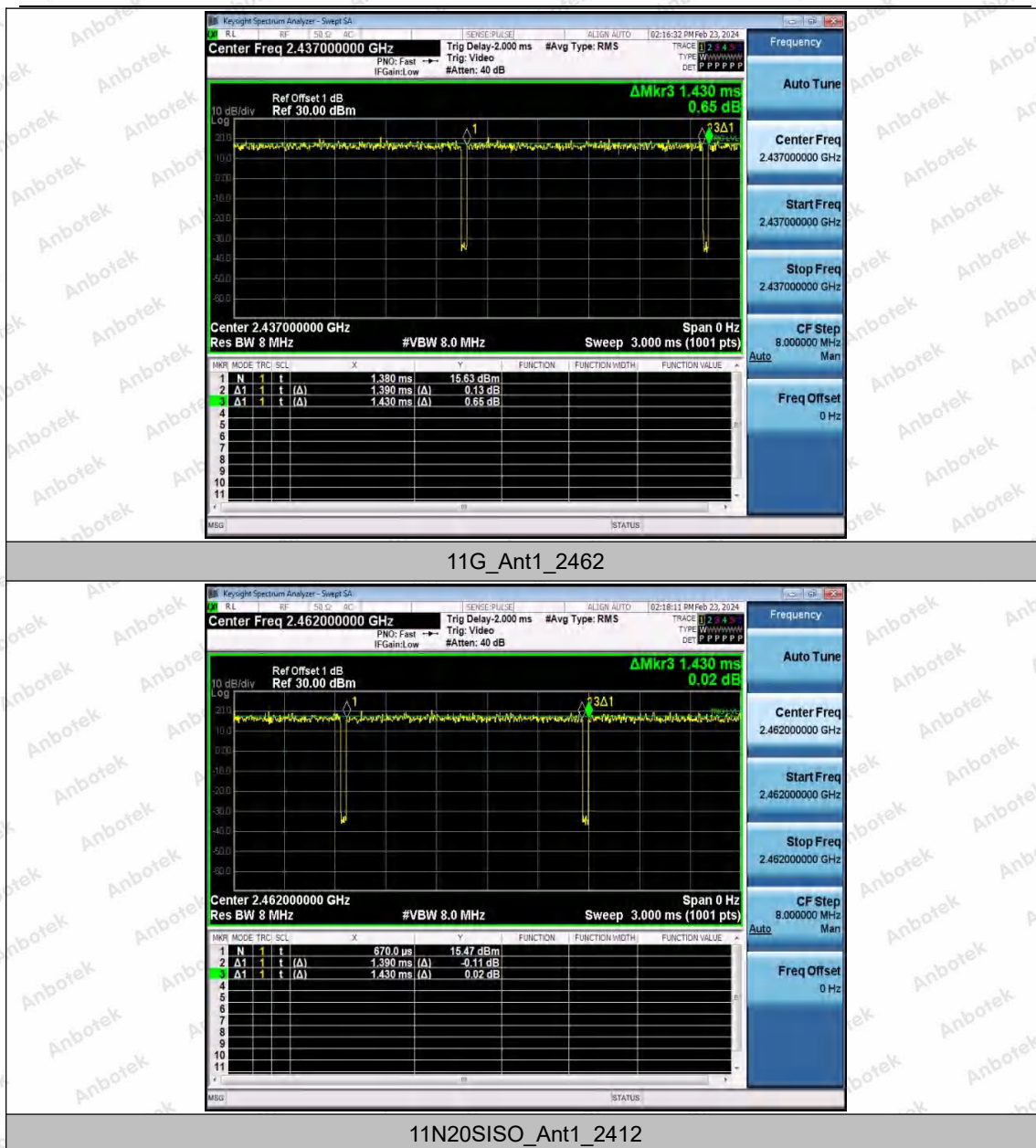
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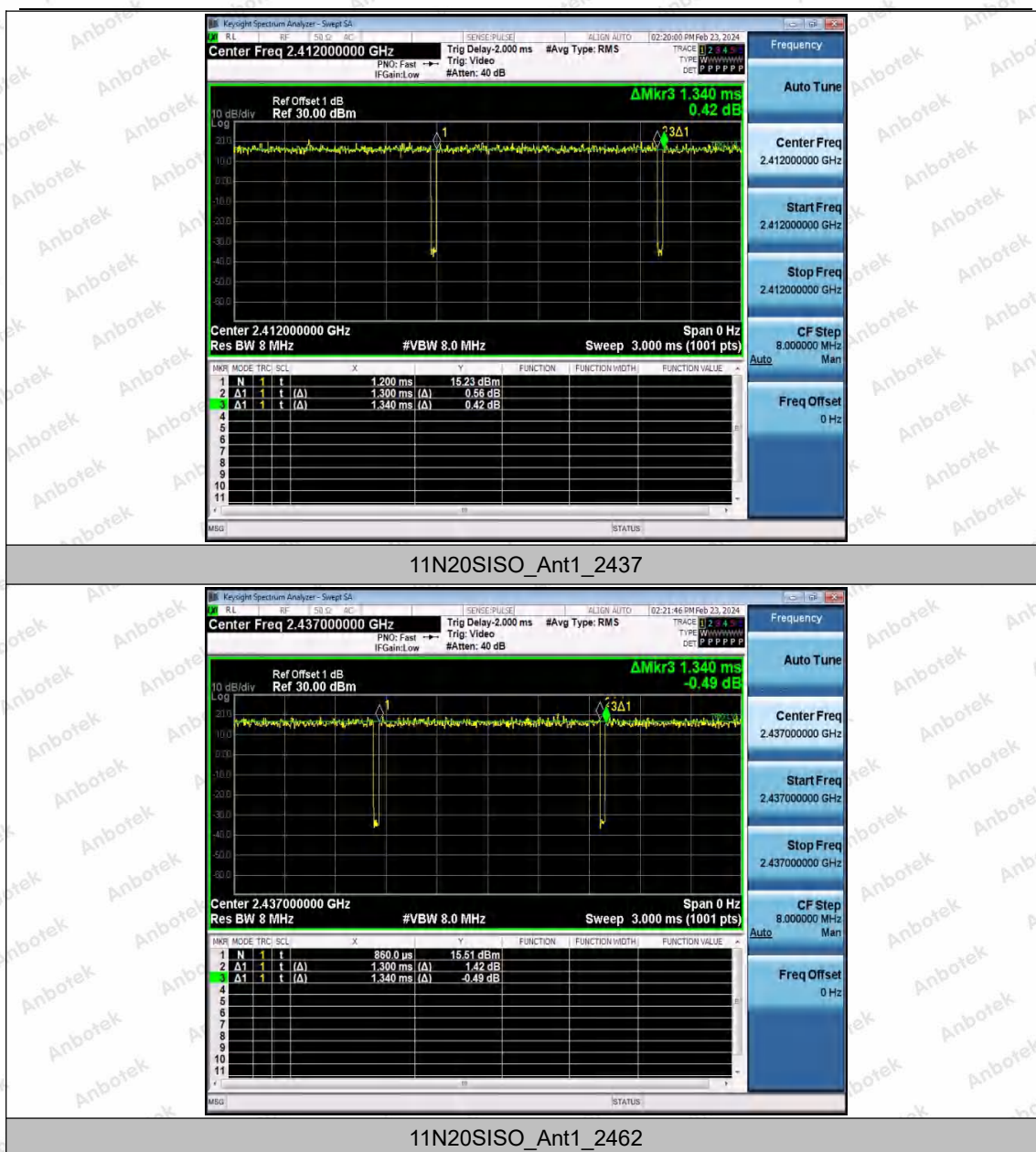
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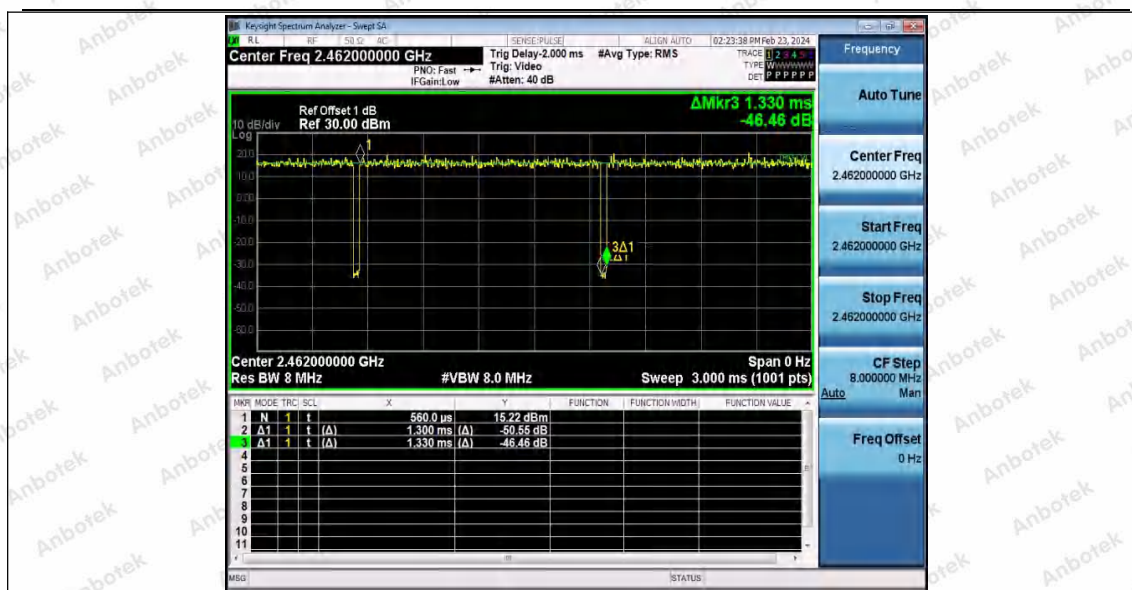
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