

Appendix Test Data

Report No.:	18220WC30131602	Test Sample No.:	1-2-2
Start Test Date:	2023.06.30	Finish Test Date:	2023.07.25
Test Engineer:	Hayman Chen	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	7.040	2408.400	2415.440	≥0.5	PASS
		2437	7.080	2433.360	2440.440	≥0.5	PASS
		2462	7.080	2458.360	2465.440	≥0.5	PASS
11G	Ant1	2412	12.640	2406.800	2419.440	≥0.5	PASS
		2437	13.600	2430.920	2444.520	≥0.5	PASS
		2462	14.640	2455.040	2469.680	≥0.5	PASS
11N20SISO	Ant1	2412	14.640	2405.680	2420.320	≥0.5	PASS
		2437	13.800	2430.720	2444.520	≥0.5	PASS
		2462	13.960	2455.440	2469.400	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_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	11.036	2406.5408	2417.5768	---	---
		2437	11.051	2431.4740	2442.5250	---	---
		2462	11.202	2456.3736	2467.5756	---	---
11G	Ant1	2412	16.665	2403.6675	2420.3325	---	---
		2437	16.626	2428.6830	2445.3090	---	---
		2462	16.501	2453.6243	2470.1253	---	---
11N20SISO	Ant1	2412	17.724	2403.1529	2420.8769	---	---
		2437	17.679	2428.1011	2445.7801	---	---
		2462	17.614	2453.1725	2470.7865	---	---



Test Graphs



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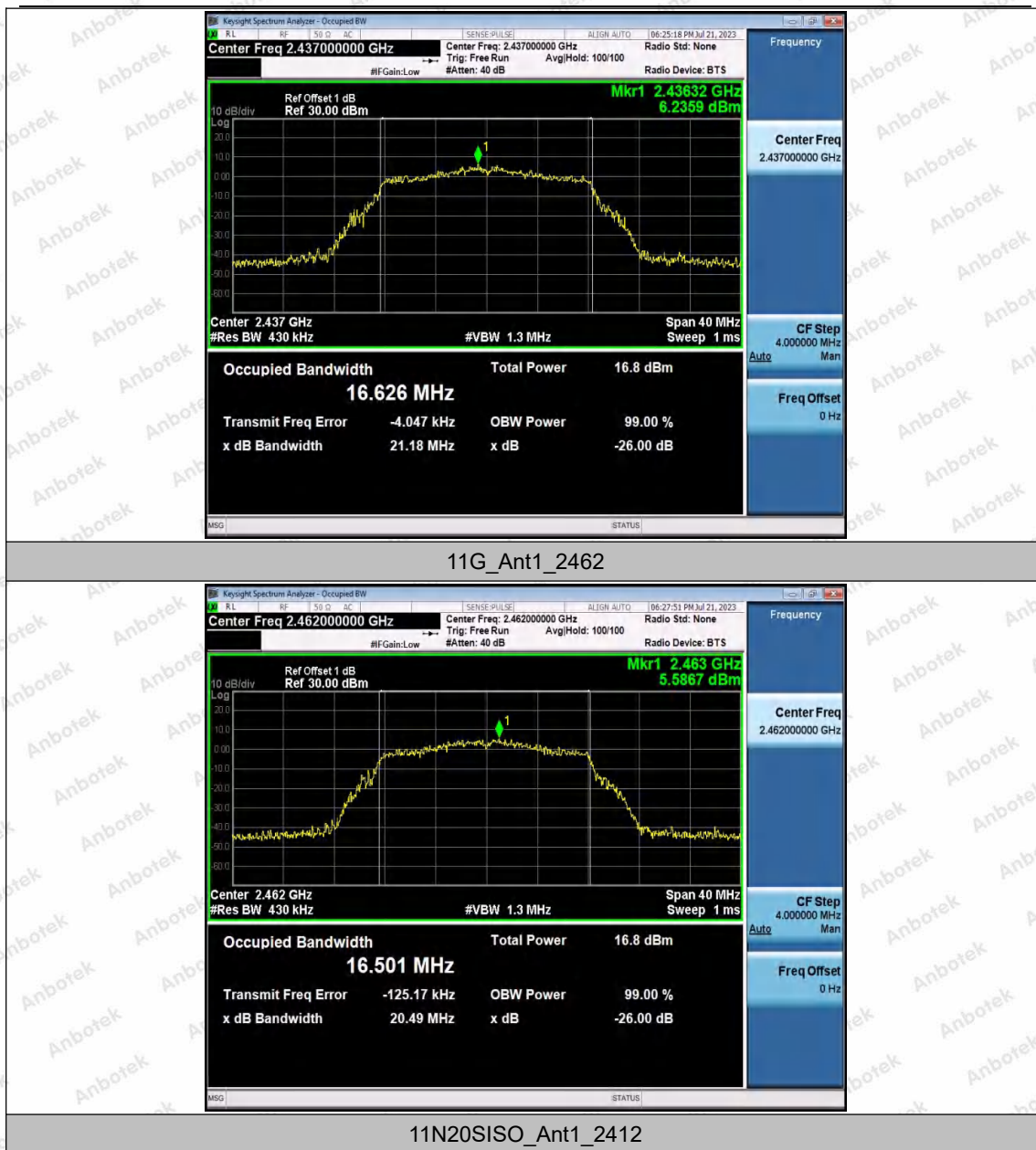
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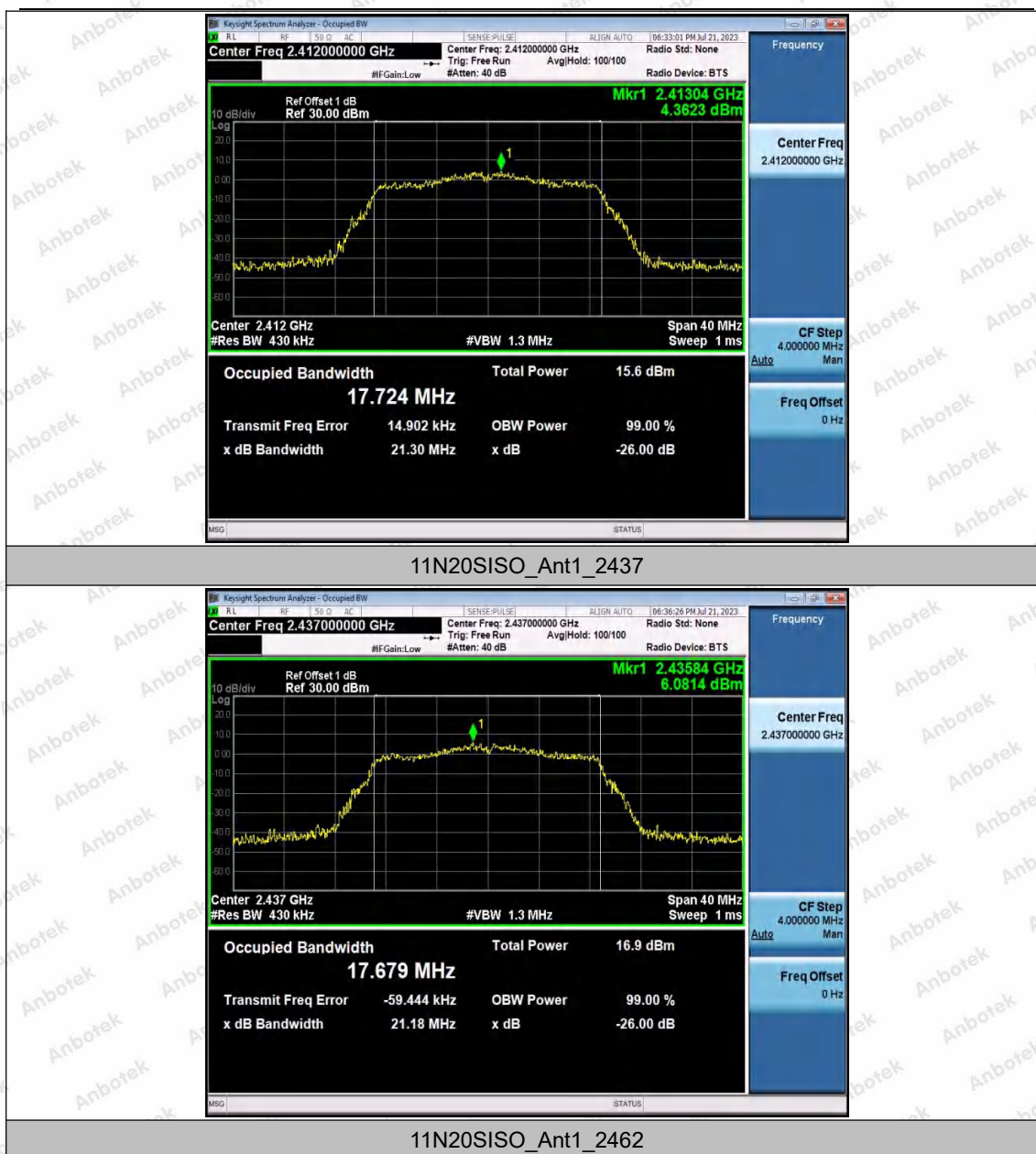
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	16.18	≤30.00
		2437	16.93	≤30.00
		2462	17.23	≤30.00
11G	Ant1	2412	16.87	≤30.00
		2437	17.64	≤30.00
		2462	18.08	≤30.00
11N20SISO	Ant1	2412	16.73	≤30.00
		2437	17.63	≤30.00
		2462	18.02	≤30.00

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



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.16	≤8.00	PASS
		2437	-7.23	≤8.00	PASS
		2462	-6.51	≤8.00	PASS
11G	Ant1	2412	-12.3	≤8.00	PASS
		2437	-11.2	≤8.00	PASS
		2462	-11.27	≤8.00	PASS
11N20SISO	Ant1	2412	-13.63	≤8.00	PASS
		2437	-13.43	≤8.00	PASS
		2462	-11.99	≤8.00	PASS

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



Test Graphs

11B_Ant1_2412

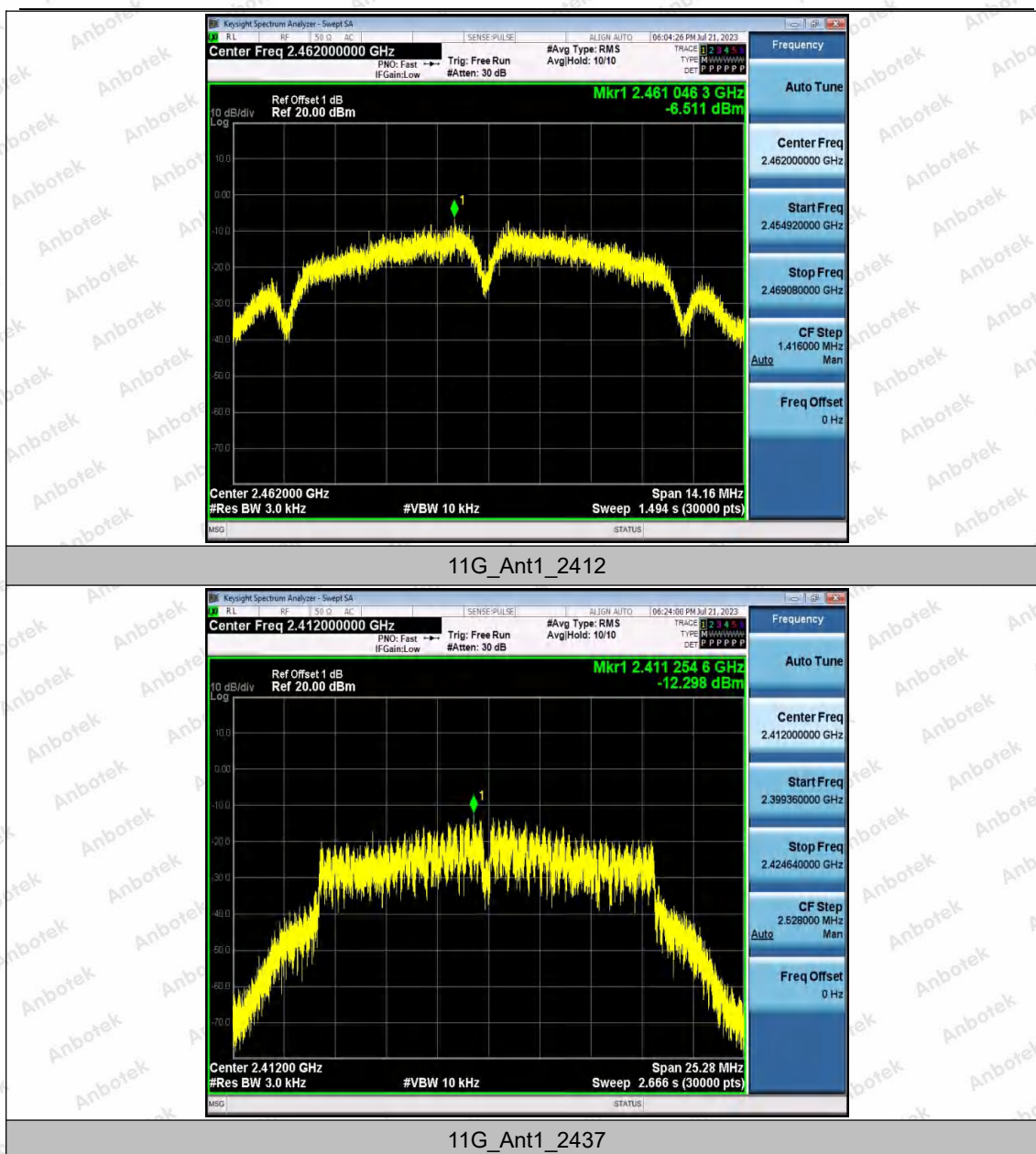


11B_Ant1_2437



11B_Ant1_2462



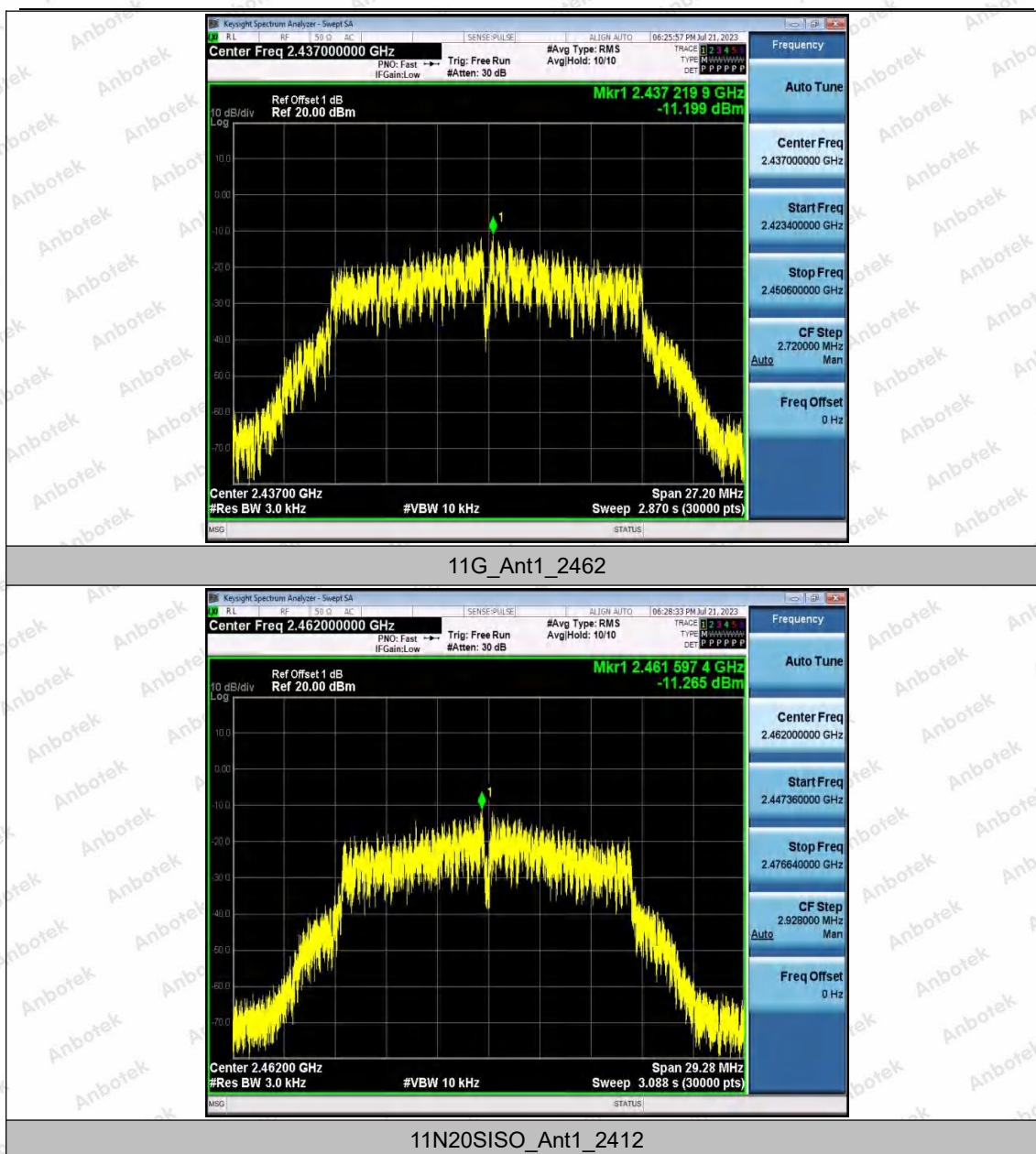
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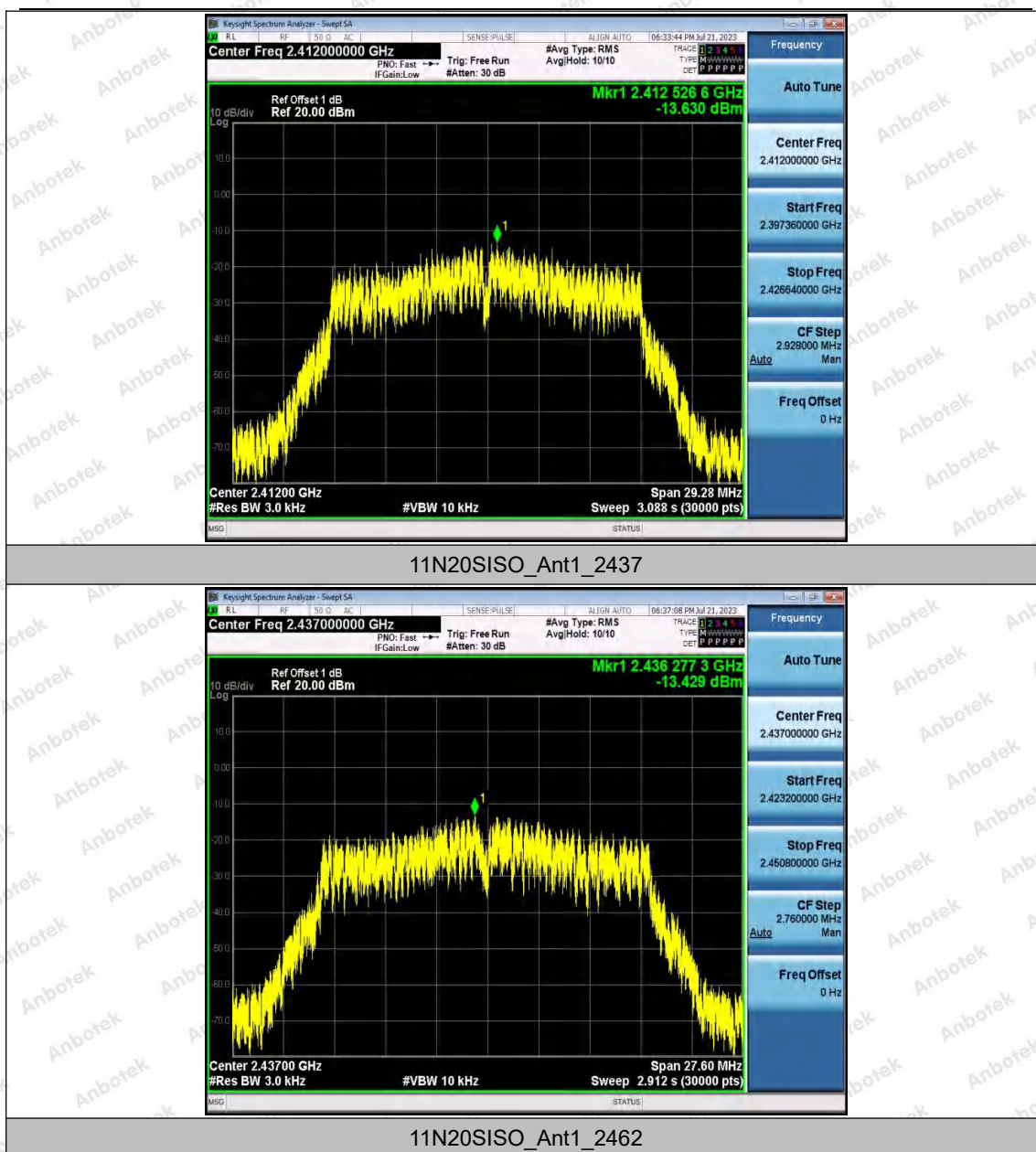
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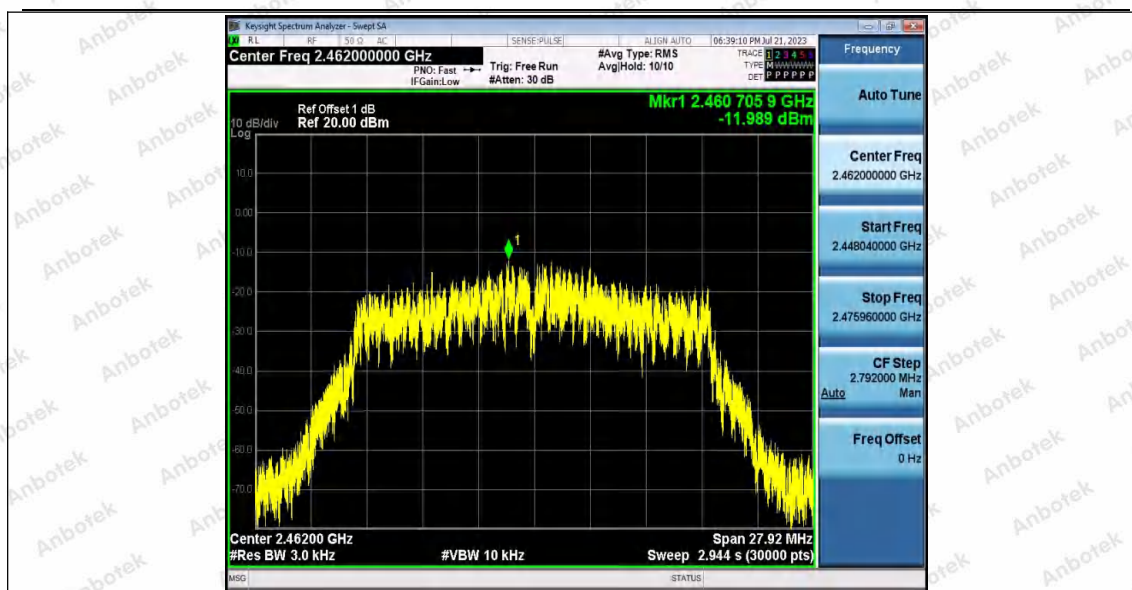
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Appendix E: Band edge measurements

Test Result

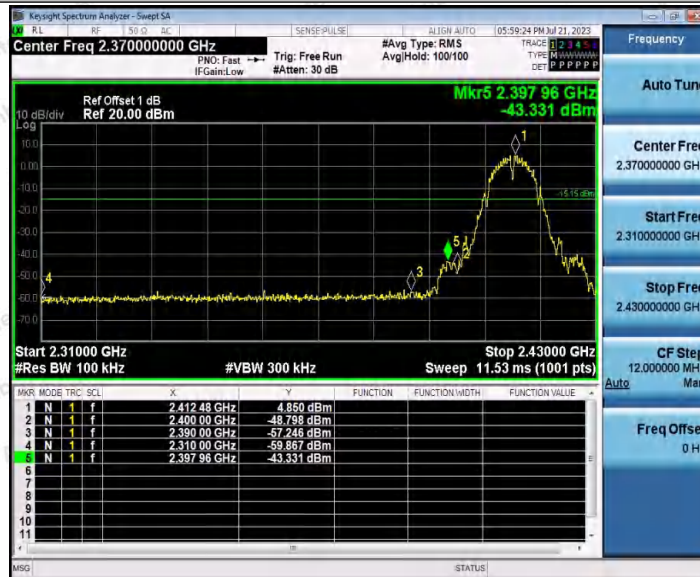
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.85	-43.33	≤-15.15	PASS
		High	2462	5.97	-55.92	≤-14.03	PASS
11G	Ant1	Low	2412	-1.77	-46.05	≤-21.77	PASS
		High	2462	0.12	-54.85	≤-19.88	PASS
11N20SISO	Ant1	Low	2412	-1.33	-45.7	≤-21.33	PASS
		High	2462	0.30	-54.26	≤-19.7	PASS

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



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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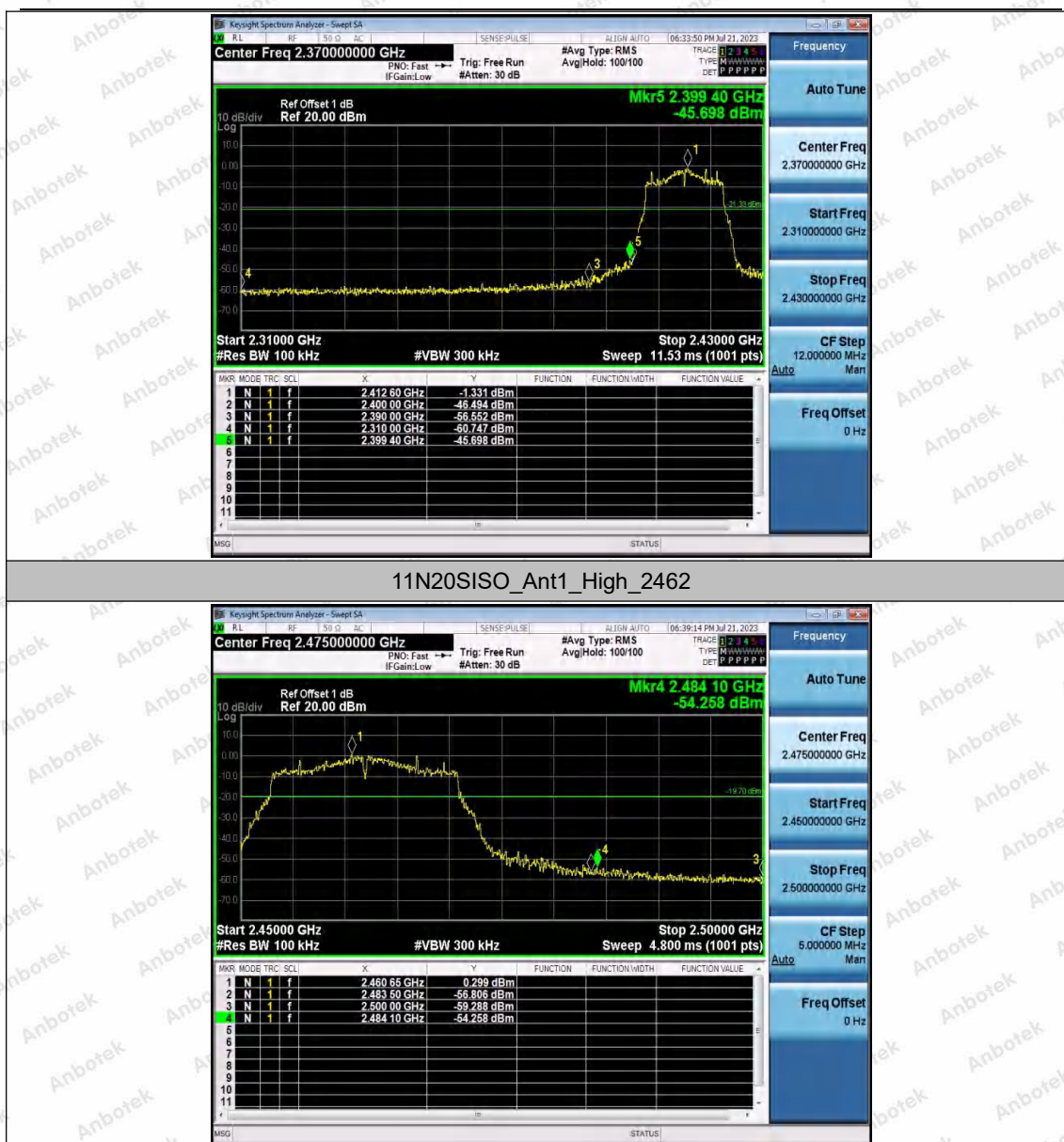


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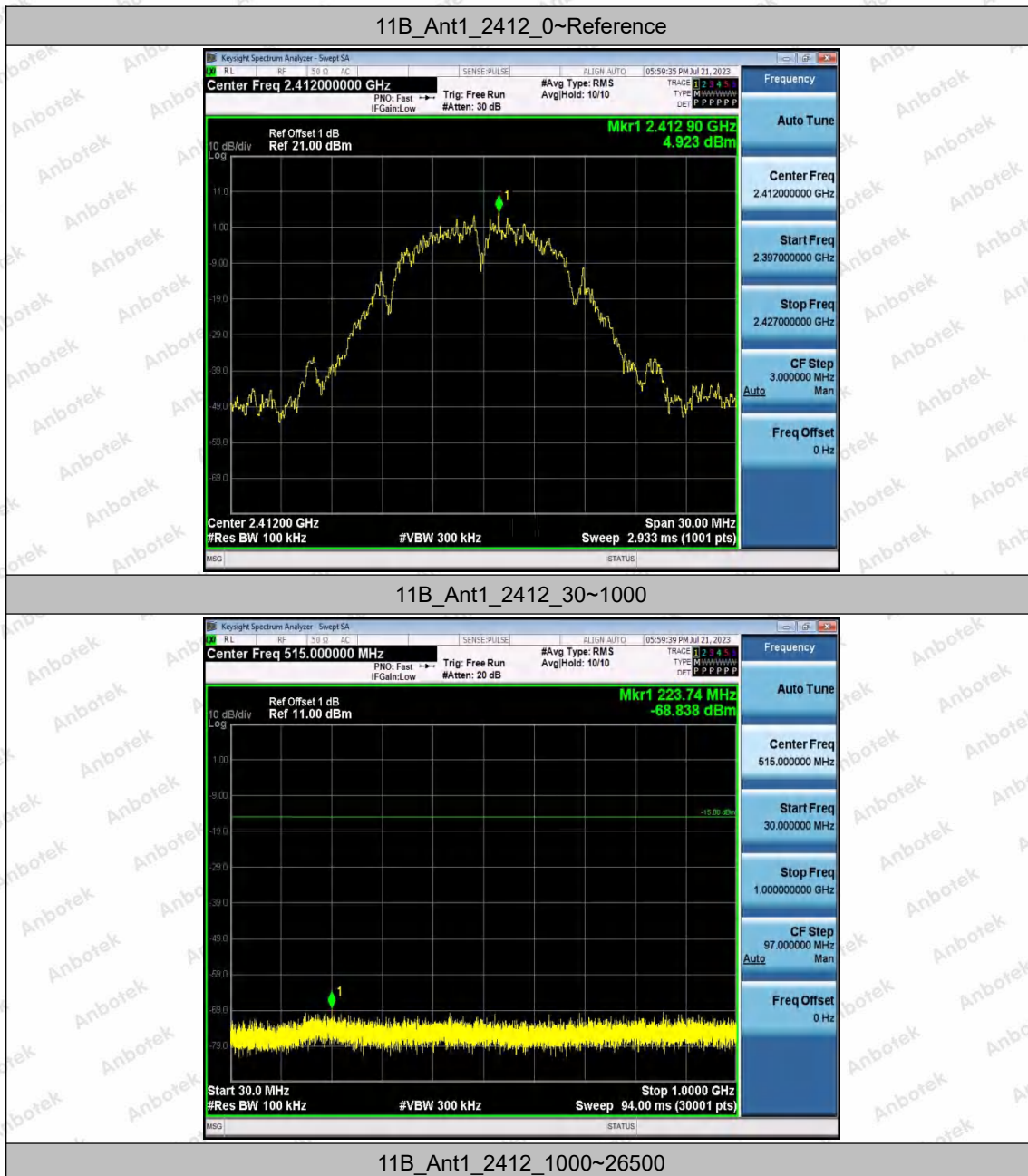
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.92	4.92	---	PASS
			30~1000	4.92	-68.84	≤-15.08	PASS
			1000~26500	4.92	-53.11	≤-15.08	PASS
		2437	Reference	4.36	4.36	---	PASS
			30~1000	4.36	-68.87	≤-15.64	PASS
			1000~26500	4.36	-53.89	≤-15.64	PASS
		2462	Reference	4.98	4.98	---	PASS
			30~1000	4.98	-68.7	≤-15.02	PASS
			1000~26500	4.98	-53.25	≤-15.02	PASS
11G	Ant1	2412	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-68.84	≤-22.19	PASS
			1000~26500	-2.19	-53.91	≤-22.19	PASS
		2437	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-68.59	≤-21.66	PASS
			1000~26500	-1.66	-53.89	≤-21.66	PASS
		2462	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-69.51	≤-20.8	PASS
			1000~26500	-0.80	-53.09	≤-20.8	PASS
11N20SISO	Ant1	2412	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-69.49	≤-22.74	PASS
			1000~26500	-2.74	-53.29	≤-22.74	PASS
		2437	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-69.49	≤-20.46	PASS
			1000~26500	-0.46	-53.82	≤-20.46	PASS
		2462	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-68.9	≤-20.89	PASS
			1000~26500	-0.89	-53.74	≤-20.89	PASS



Test Graphs



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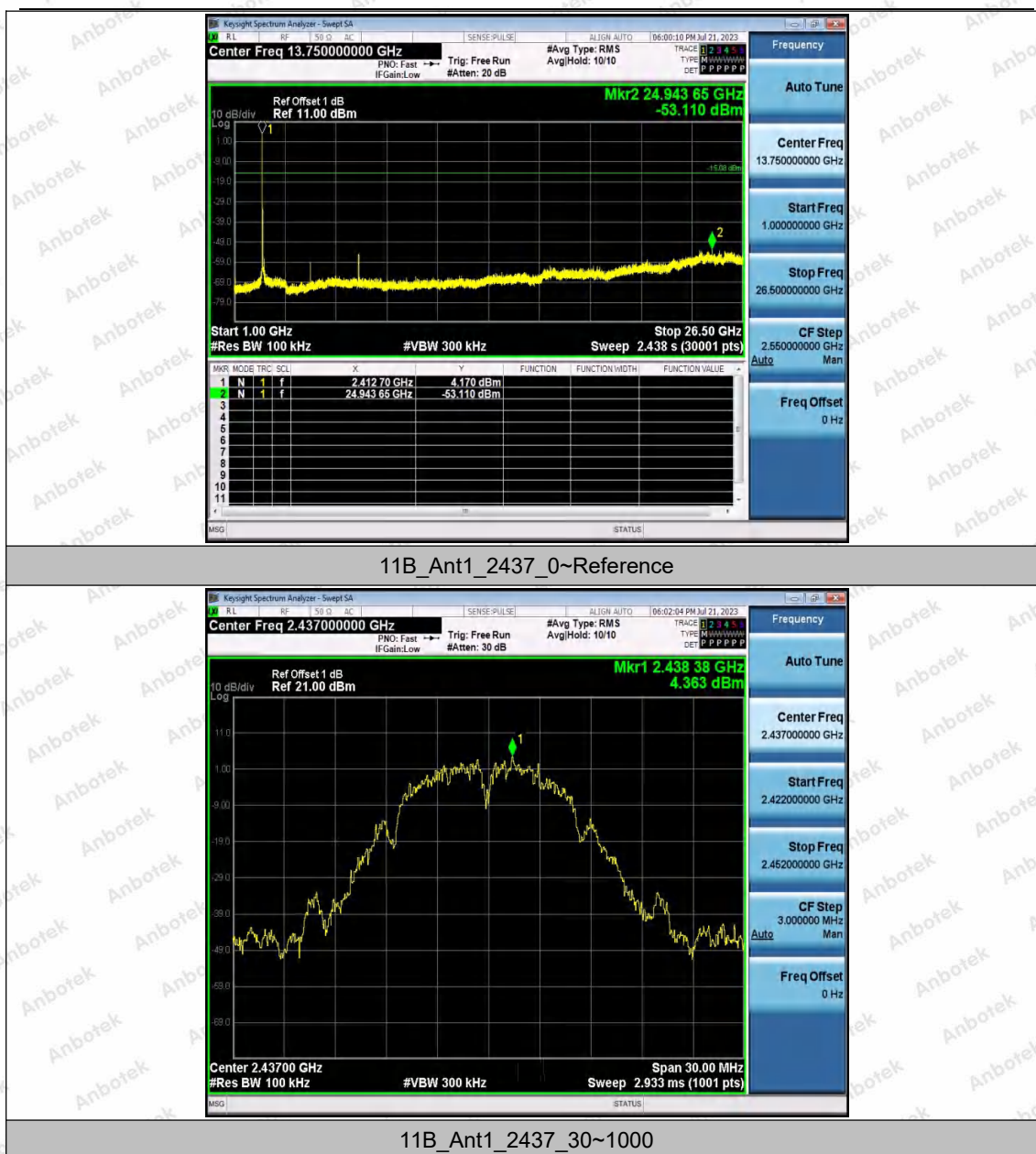


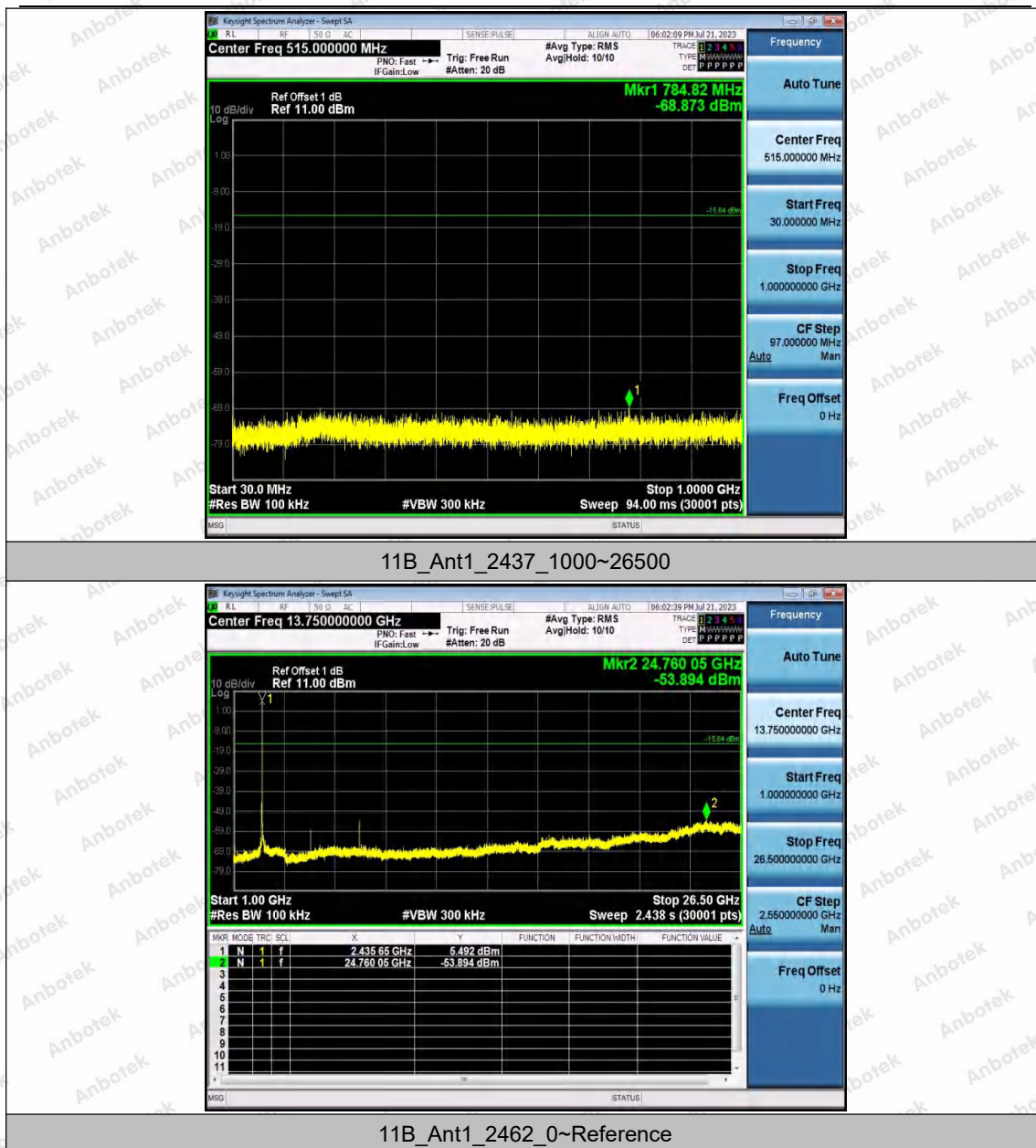
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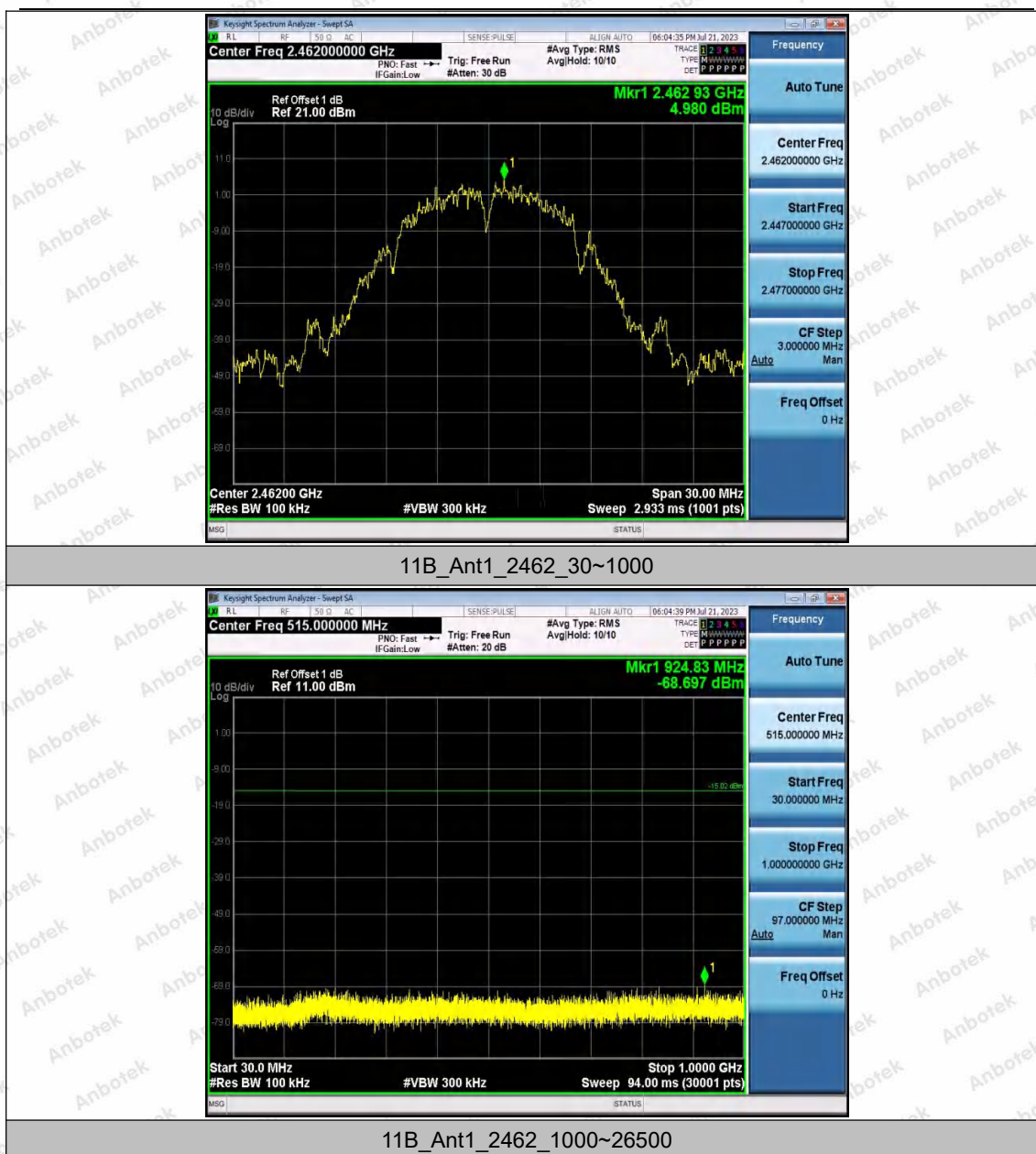
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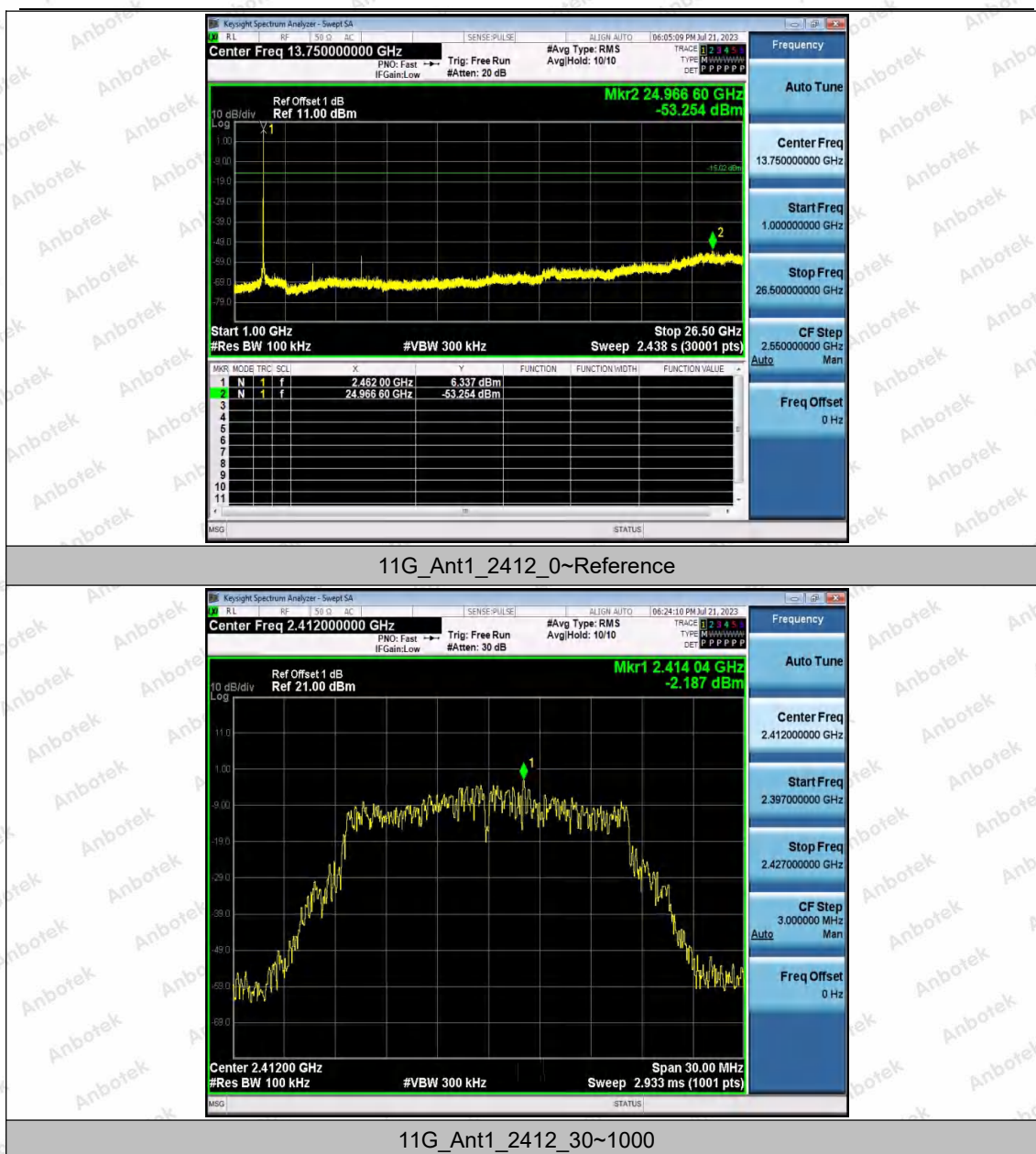
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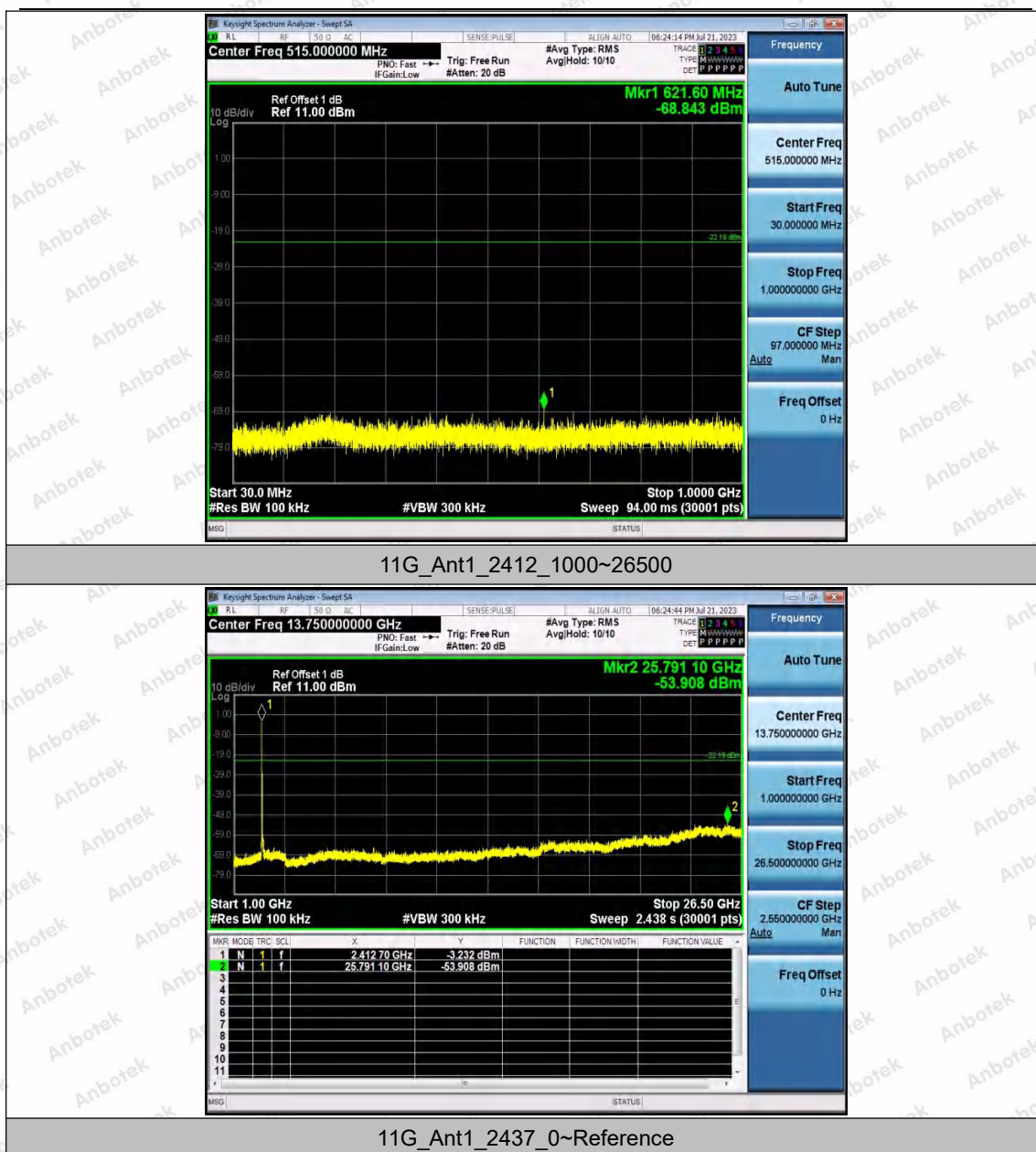
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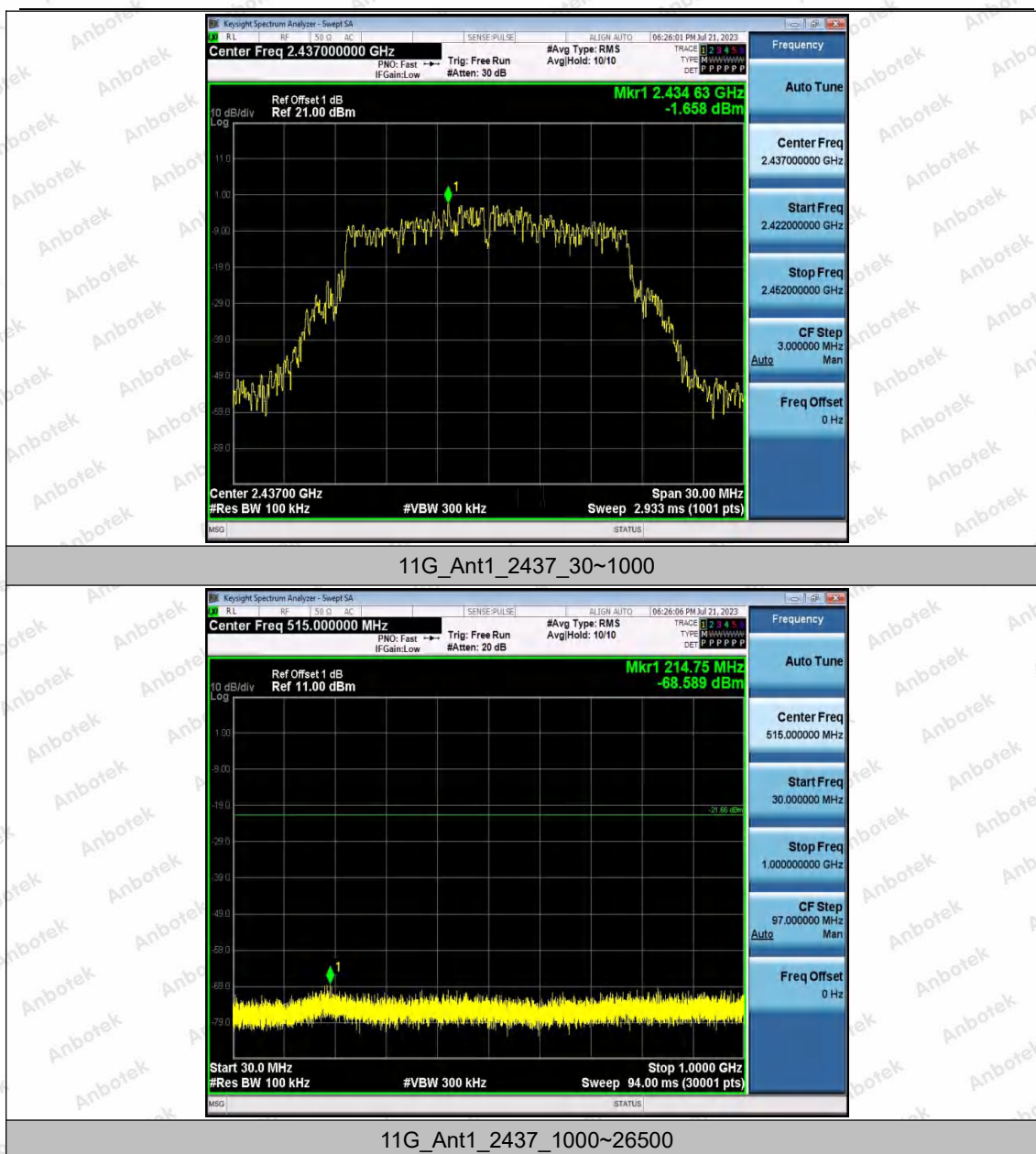
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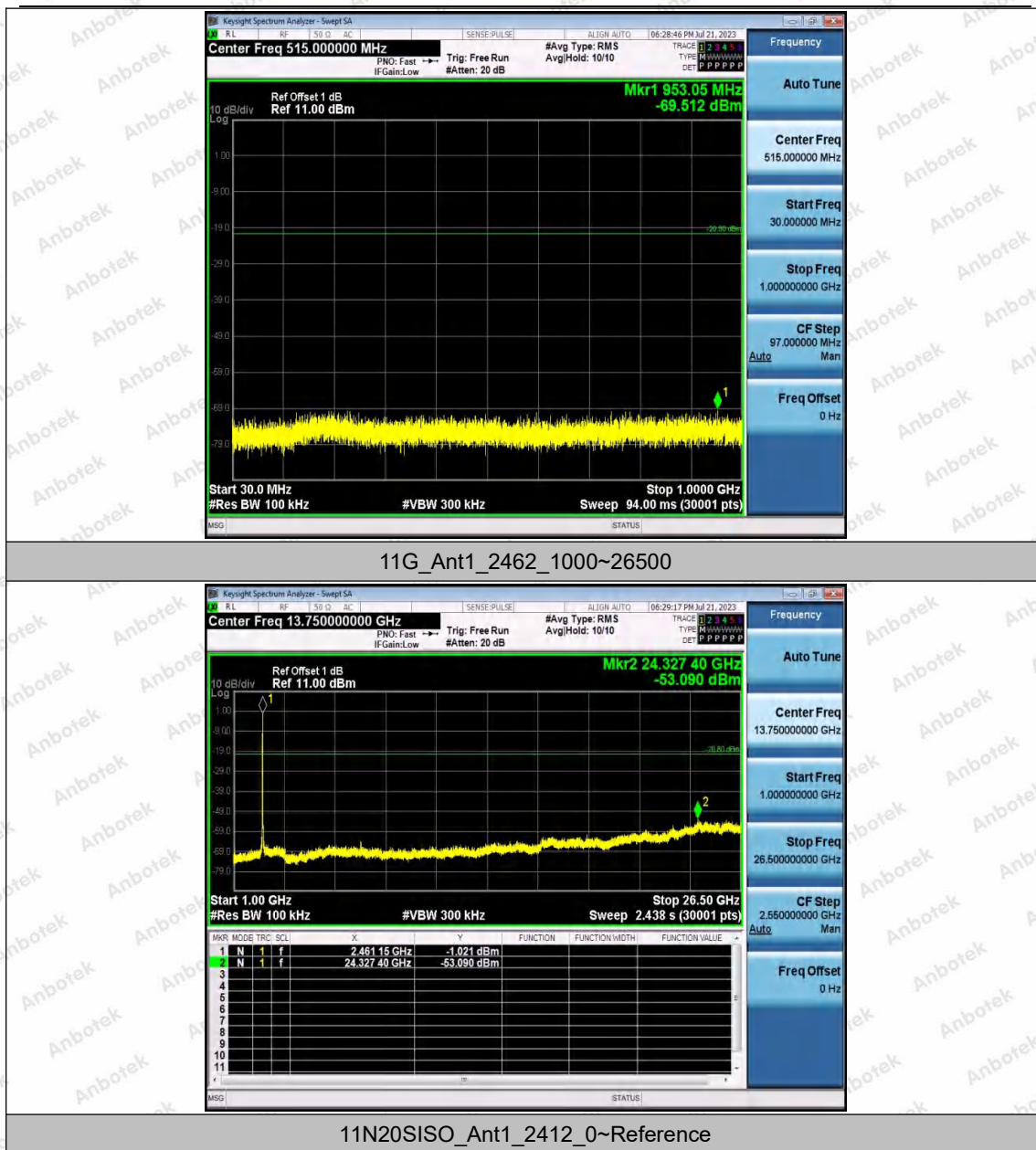
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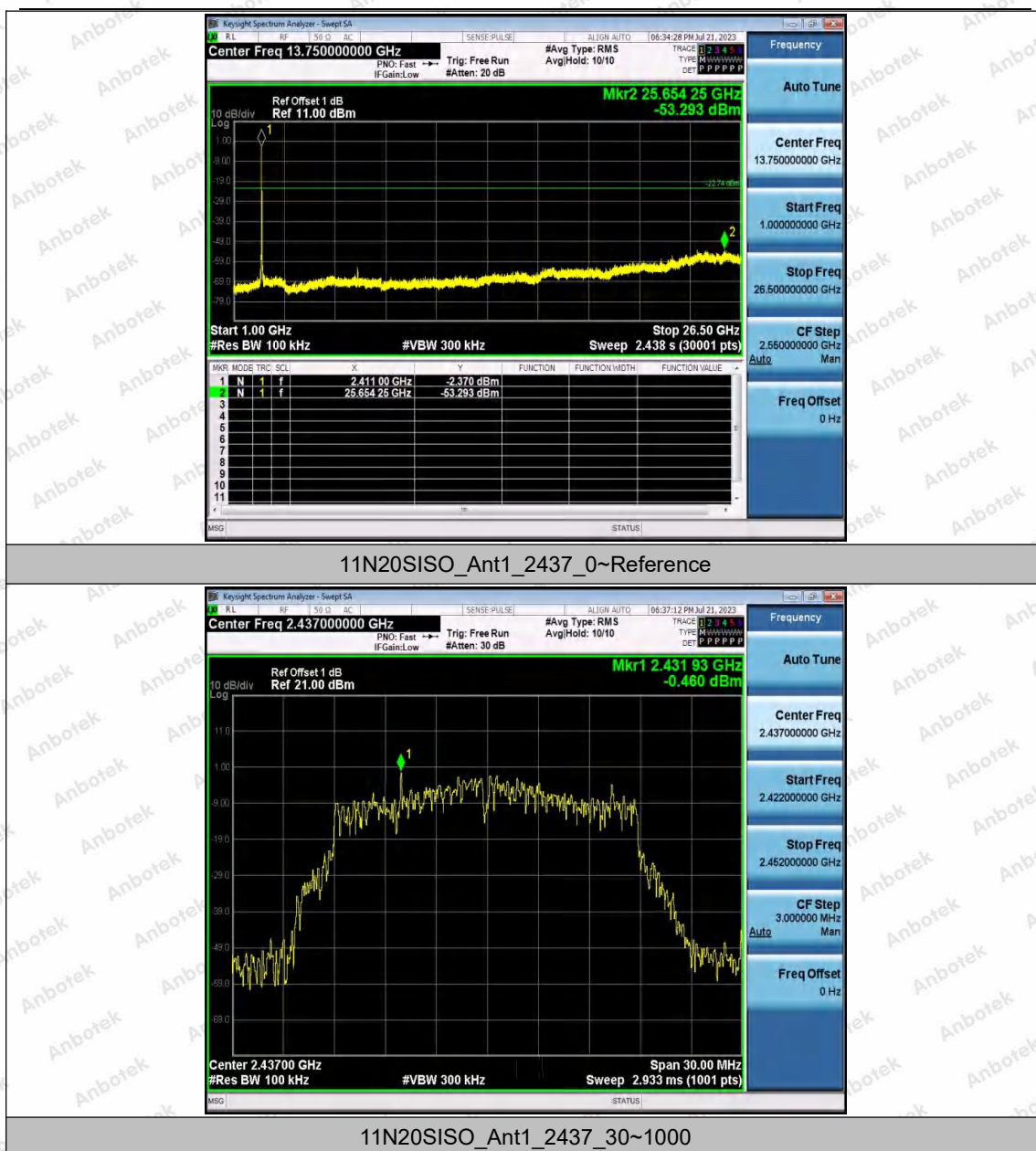
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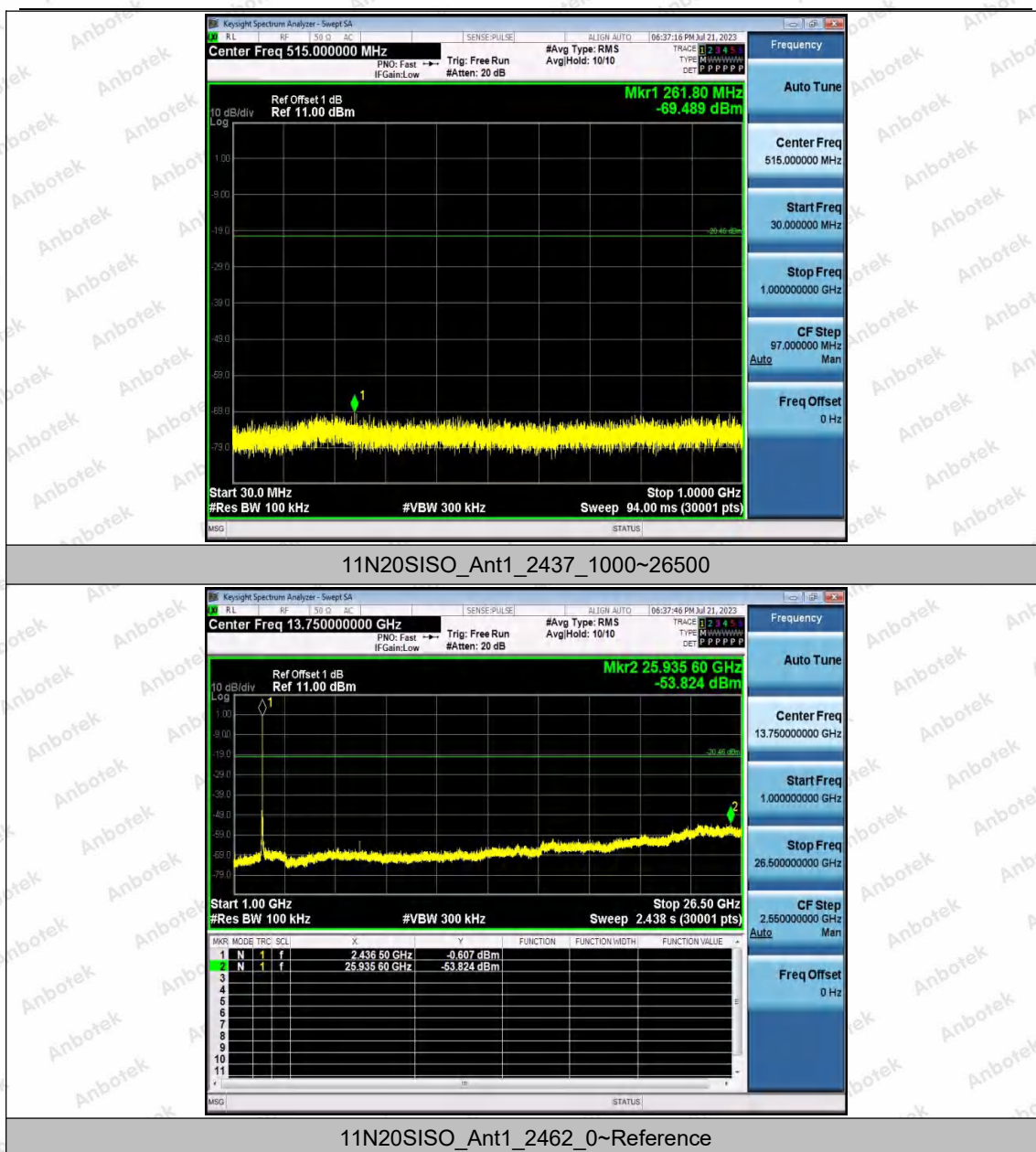
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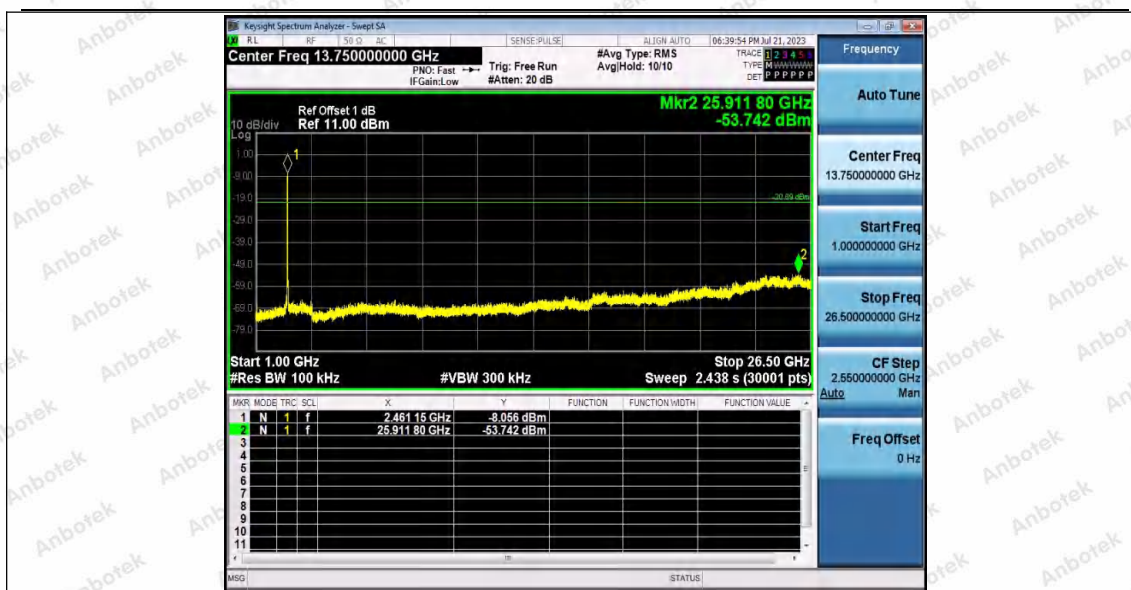
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Appendix G: Duty Cycle

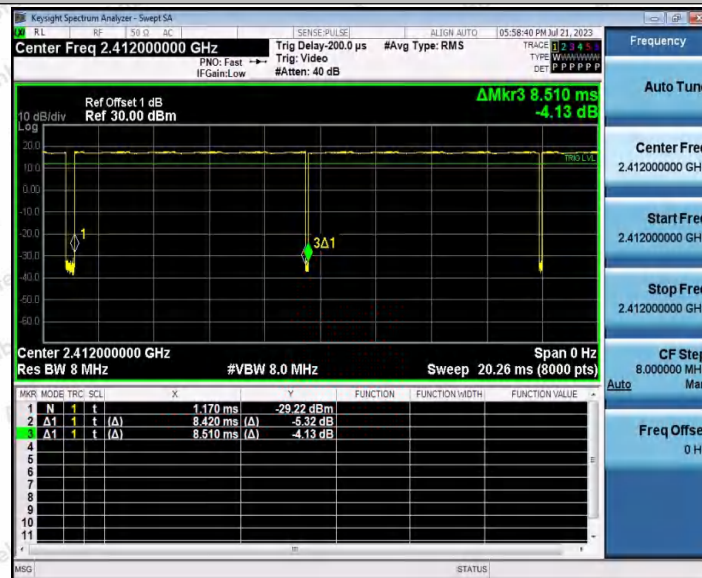
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.42	8.51	98.94	0.05
		2437	8.41	8.51	98.82	0.05
		2462	8.41	8.51	98.82	0.05
11G	Ant1	2412	1.40	1.50	93.33	0.30
		2437	1.39	1.50	92.67	0.33
		2462	1.40	1.50	93.33	0.30
11N20SISO	Ant1	2412	1.31	1.41	92.91	0.32
		2437	1.30	1.41	92.20	0.35
		2462	1.31	1.41	92.91	0.32



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



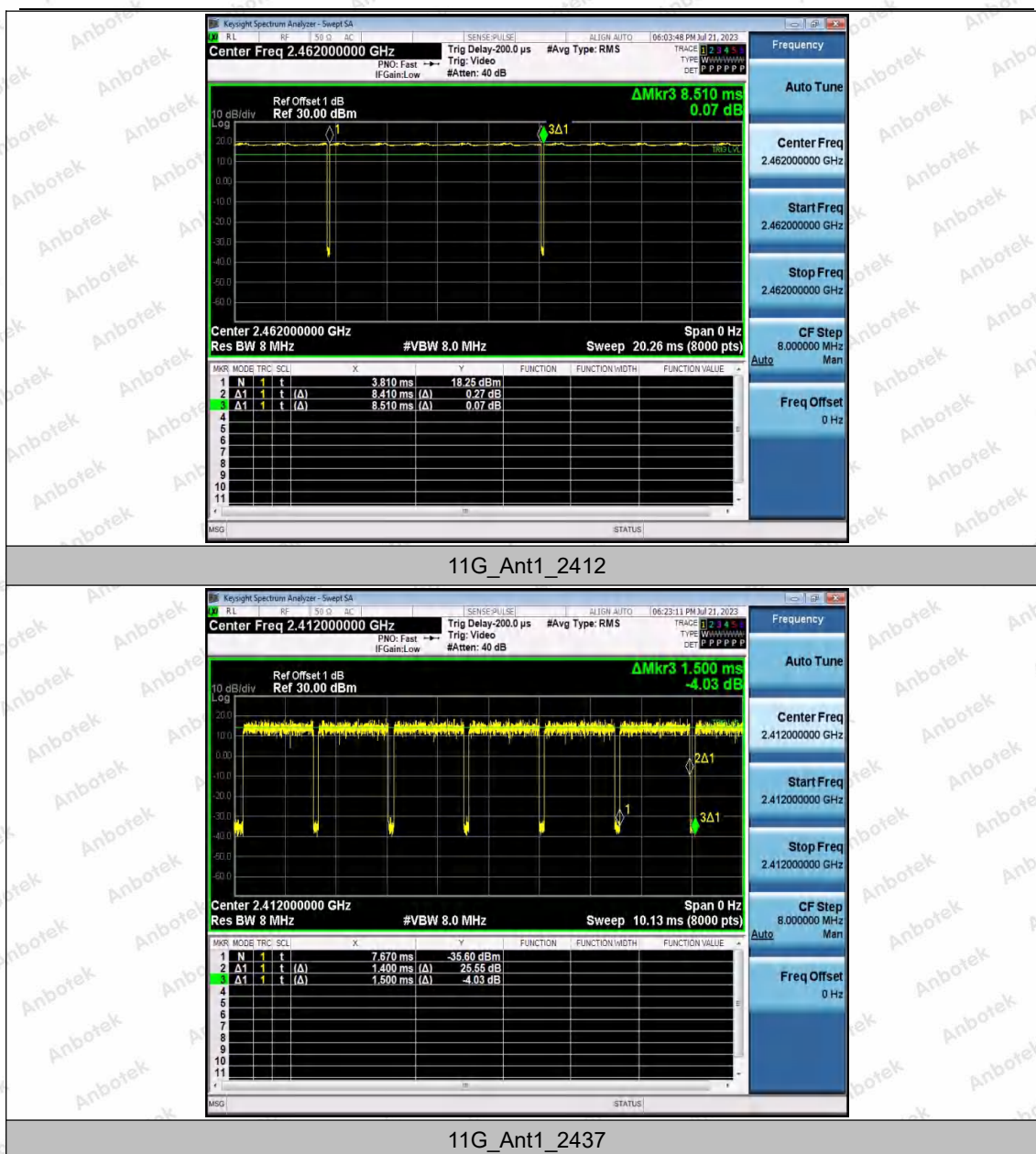
11B_Ant1_2462

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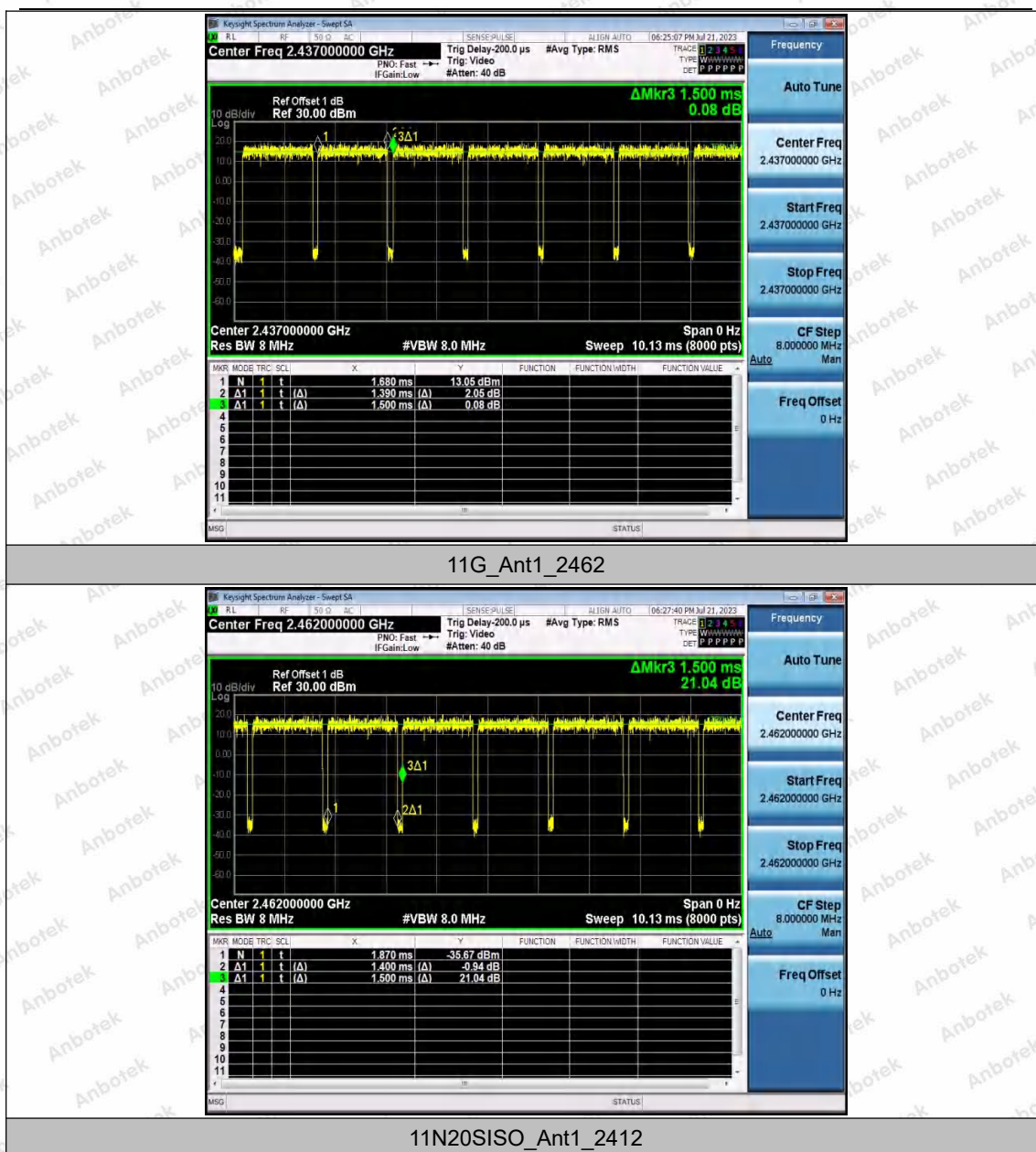
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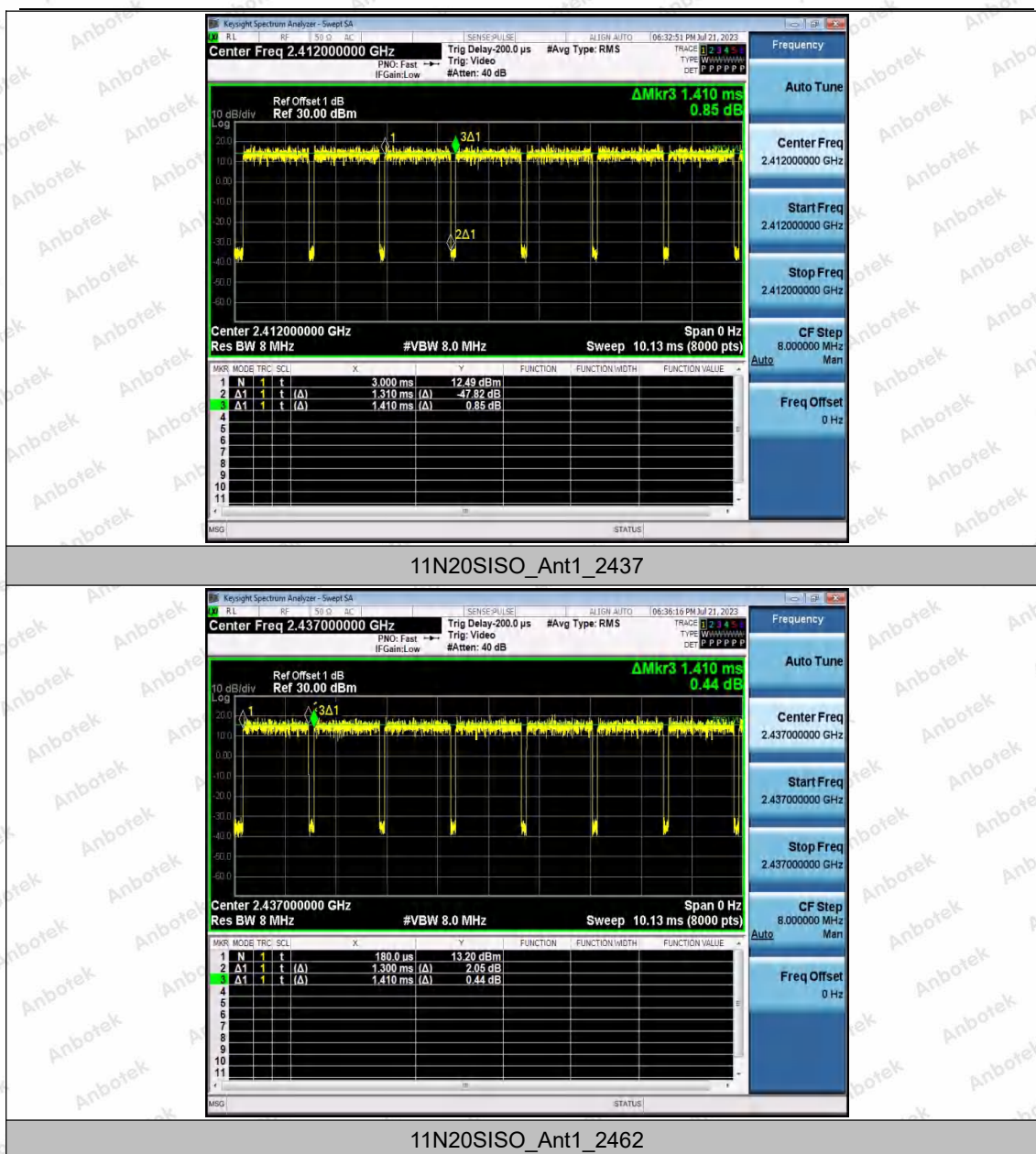
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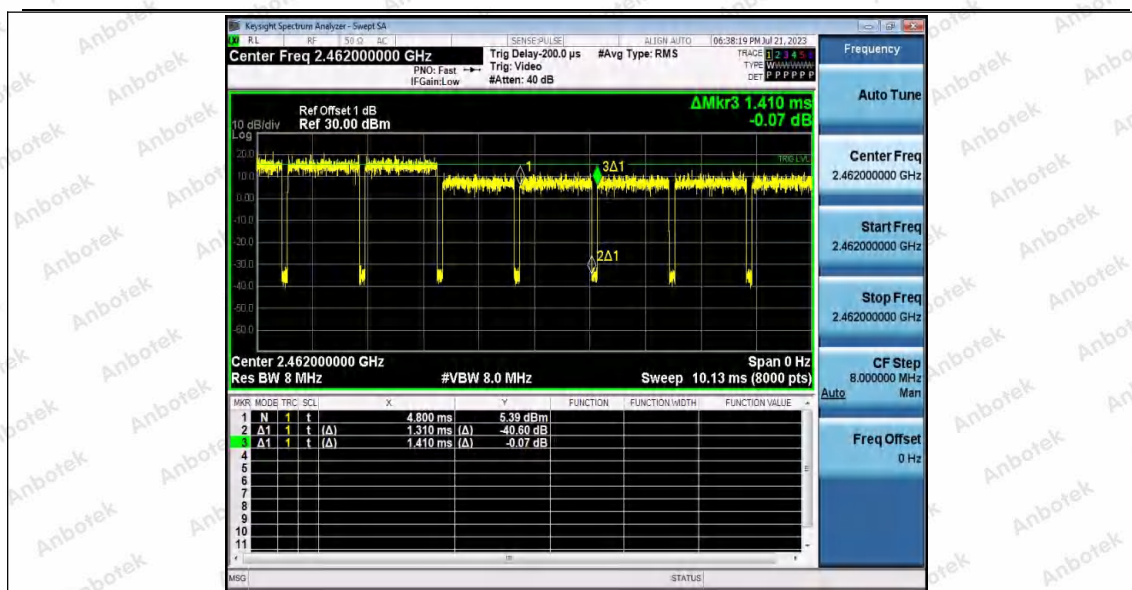
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