

Appendix Test Data

Report No.:	18220WC30239102	Test Sample No.:	1-2-2
Start Test Date:	2023.11.15	Finish Test Date:	2023.12.27
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.2C°	Relative Humidity:	44%
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	8.520	2407.520	2416.040	≥0.5	PASS
		2437	8.480	2433.040	2441.520	≥0.5	PASS
		2462	8.560	2457.520	2466.080	≥0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	≥0.5	PASS
		2437	16.360	2428.840	2445.200	≥0.5	PASS
		2462	16.360	2453.840	2470.200	≥0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
		2437	17.480	2428.280	2445.760	≥0.5	PASS
		2462	17.320	2453.480	2470.800	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2462



11N20SISO_Ant1_2412

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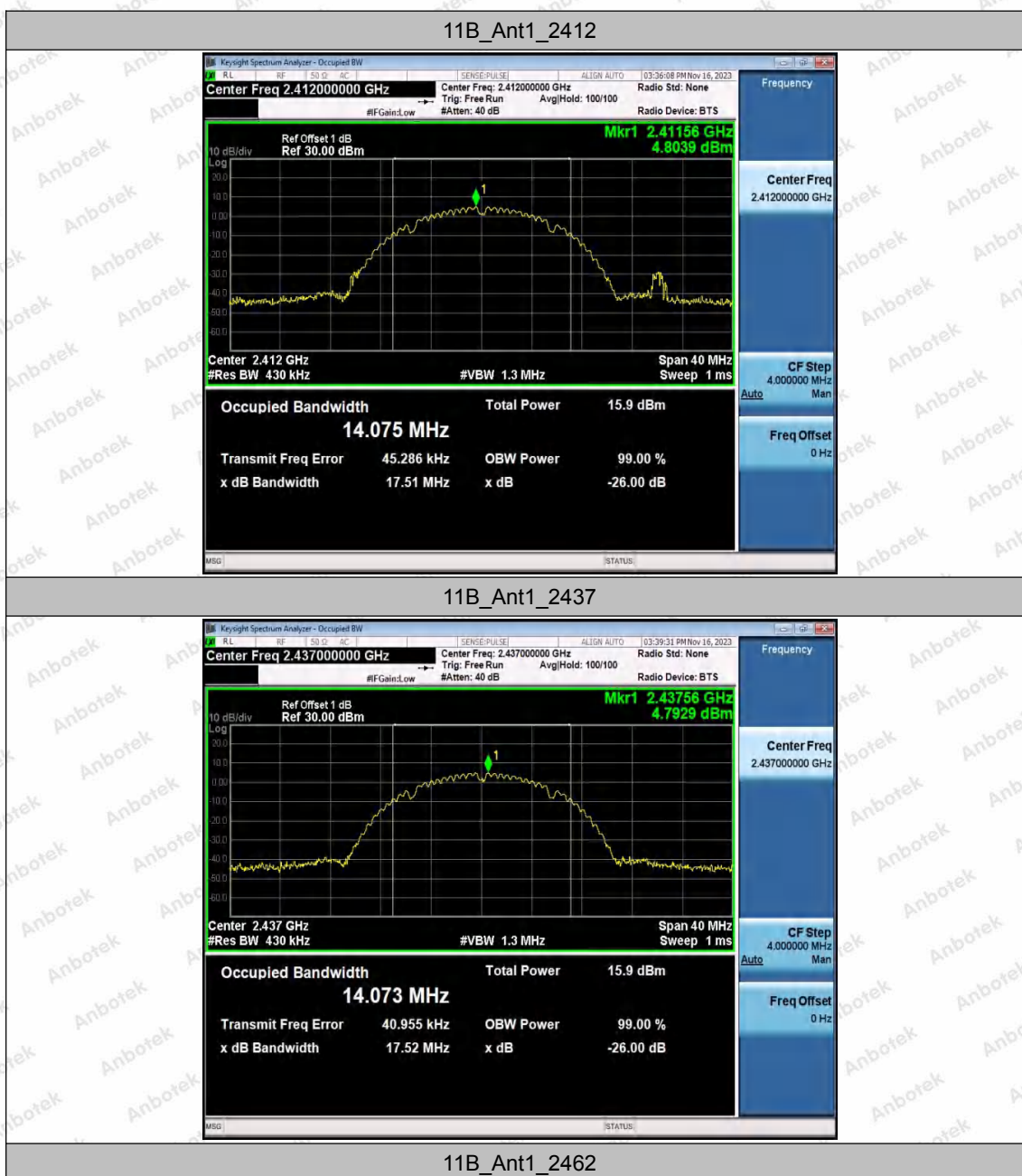
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.075	2405.0078	2419.0828	---	---
		2437	14.073	2430.0045	2444.0775	---	---
		2462	14.067	2455.0121	2469.0791	---	---
11G	Ant1	2412	17.190	2403.4403	2420.6303	---	---
		2437	17.105	2428.5235	2445.6285	---	---
		2462	17.139	2453.4973	2470.6363	---	---
11N20SISO	Ant1	2412	18.180	2402.9939	2421.1739	---	---
		2437	18.165	2427.9796	2446.1446	---	---
		2462	18.169	2452.9392	2471.1082	---	---



Test Graphs



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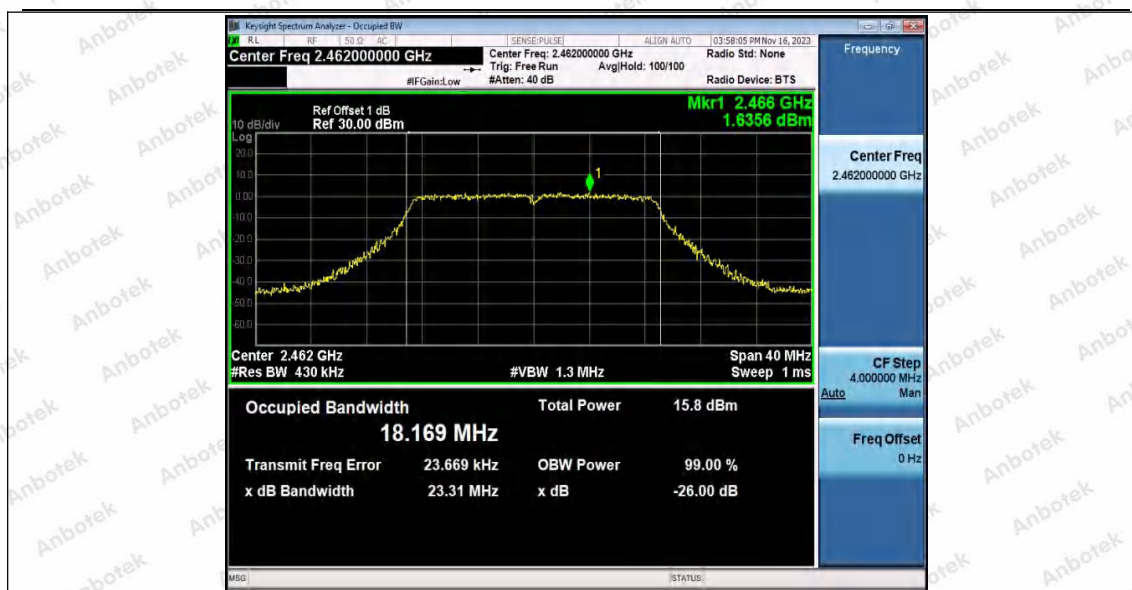
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Peak Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.39	≤30.00
		2437	14.42	≤30.00
		2462	14.55	≤30.00
11G	Ant1	2412	14.30	≤30.00
		2437	14.47	≤30.00
		2462	14.57	≤30.00
11N20SISO	Ant1	2412	14.22	≤30.00
		2437	14.36	≤30.00
		2462	14.57	≤30.00



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	2.07	-7.93	≤8.00	PASS
		2437	1.19	-8.81	≤8.00	PASS
		2462	1.47	-8.53	≤8.00	PASS
11G	Ant1	2412	0.25	-9.75	≤8.00	PASS
		2437	-0.96	-10.96	≤8.00	PASS
		2462	-0.32	-10.32	≤8.00	PASS
11N20SISO	Ant1	2412	0.19	-9.81	≤8.00	PASS
		2437	-0.21	-10.21	≤8.00	PASS
		2462	0.12	-9.88	≤8.00	PASS

Note:

1. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



Test Graphs

11B_Ant1_2412

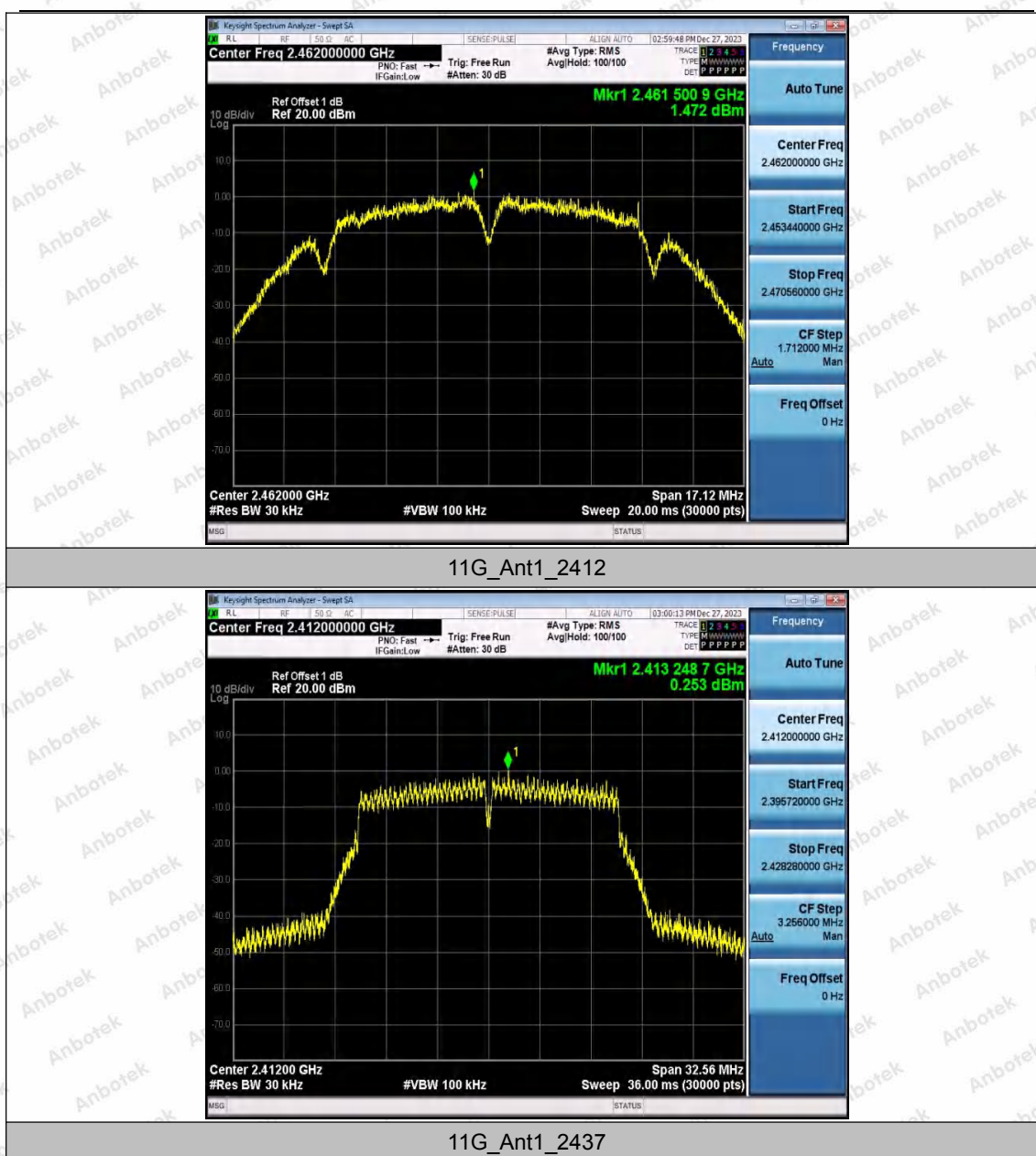


11B_Ant1_2437



11B_Ant1_2462





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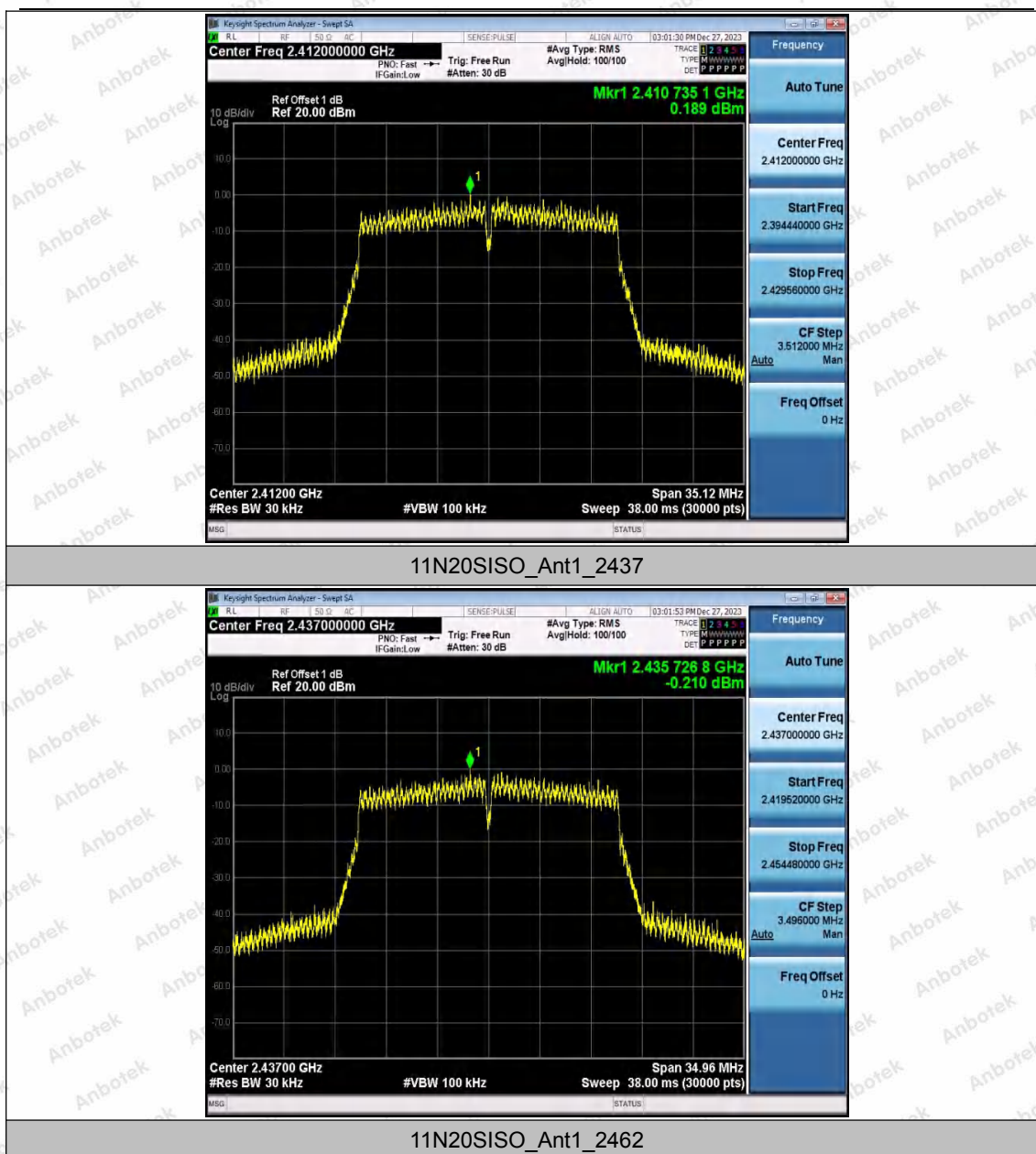
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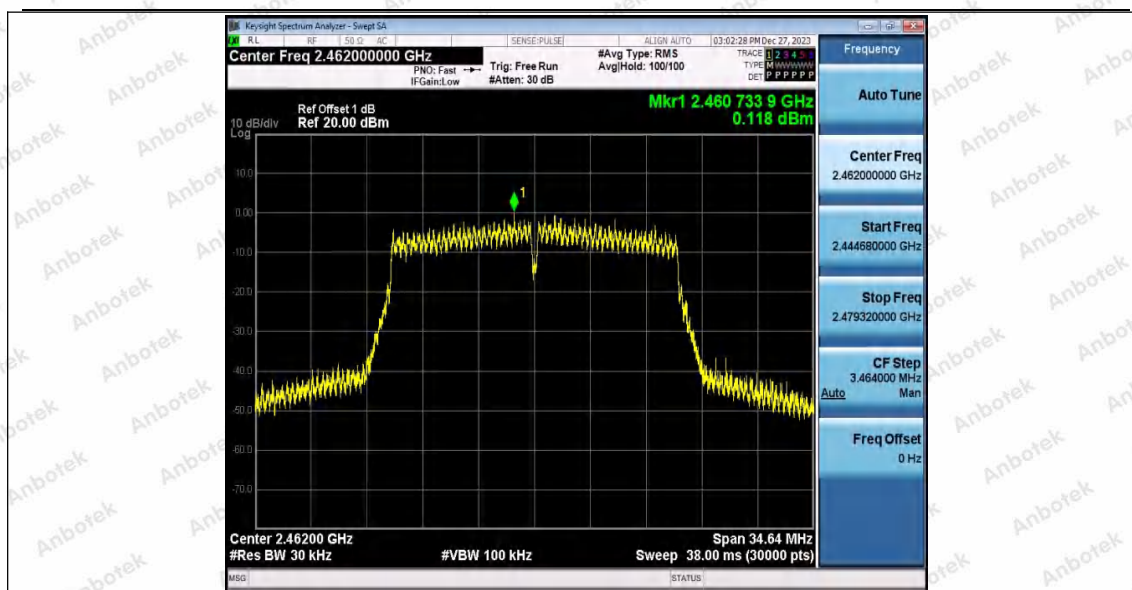
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Appendix E: Band edge measurements

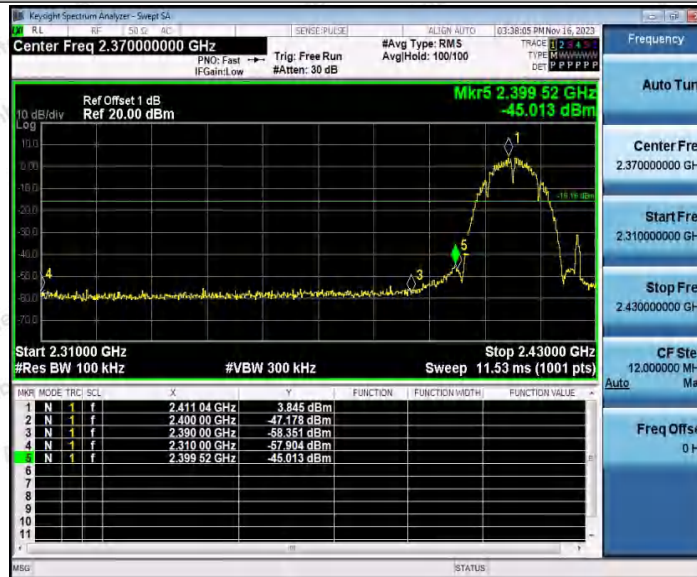
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.85	-45.01	≤-16.16	PASS
		High	2462	4.25	-50.83	≤-15.75	PASS
11G	Ant1	Low	2412	-1.66	-38.5	≤-21.66	PASS
		High	2462	-1.90	-55.21	≤-21.9	PASS
11N20SISO	Ant1	Low	2412	-1.59	-36.04	≤-21.59	PASS
		High	2462	-2.23	-54.77	≤-22.23	PASS

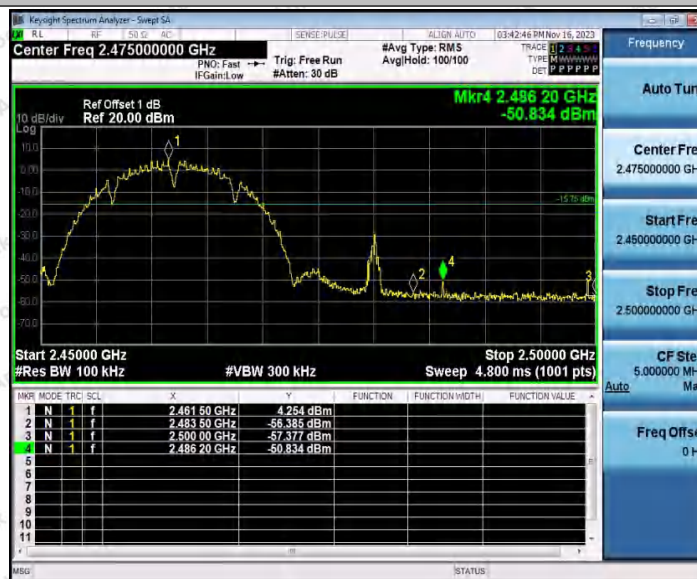


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_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	2.38	2.38	---	PASS
			30~1000	2.38	-69.22	≤-17.62	PASS
			1000~26500	2.38	-53.6	≤-17.62	PASS
		2437	Reference	2.45	2.45	---	PASS
			30~1000	2.45	-68.51	≤-17.55	PASS
			1000~26500	2.45	-53.58	≤-17.55	PASS
		2462	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-68.12	≤-17.04	PASS
			1000~26500	2.96	-54.15	≤-17.04	PASS
11G	Ant1	2412	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-69.07	≤-22.19	PASS
			1000~26500	-2.19	-53.62	≤-22.19	PASS
		2437	Reference	-3.03	-3.03	---	PASS
			30~1000	-3.03	-67.59	≤-23.03	PASS
			1000~26500	-3.03	-53.39	≤-23.03	PASS
		2462	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-68.93	≤-22.41	PASS
			1000~26500	-2.41	-53.13	≤-22.41	PASS
11N20SISO	Ant1	2412	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-69.13	≤-23.58	PASS
			1000~26500	-3.58	-53.88	≤-23.58	PASS
		2437	Reference	-2.32	-2.32	---	PASS
			30~1000	-2.32	-68.26	≤-22.32	PASS
			1000~26500	-2.32	-53.73	≤-22.32	PASS
		2462	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-68.49	≤-21.93	PASS
			1000~26500	-1.93	-53.74	≤-21.93	PASS

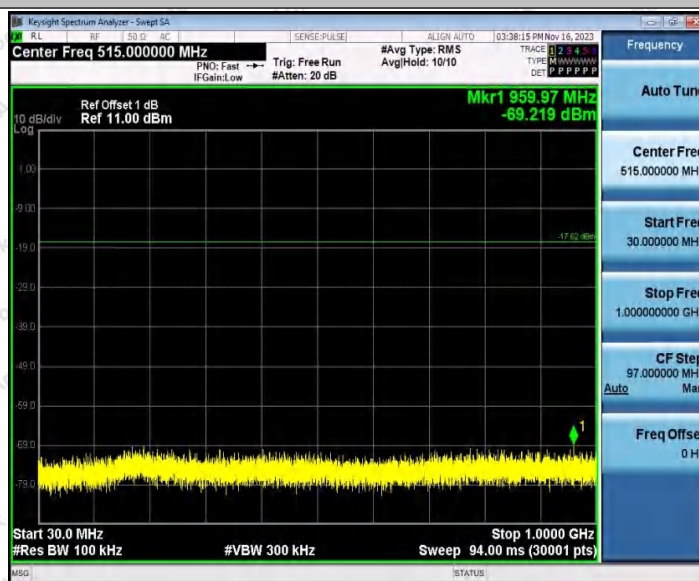


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

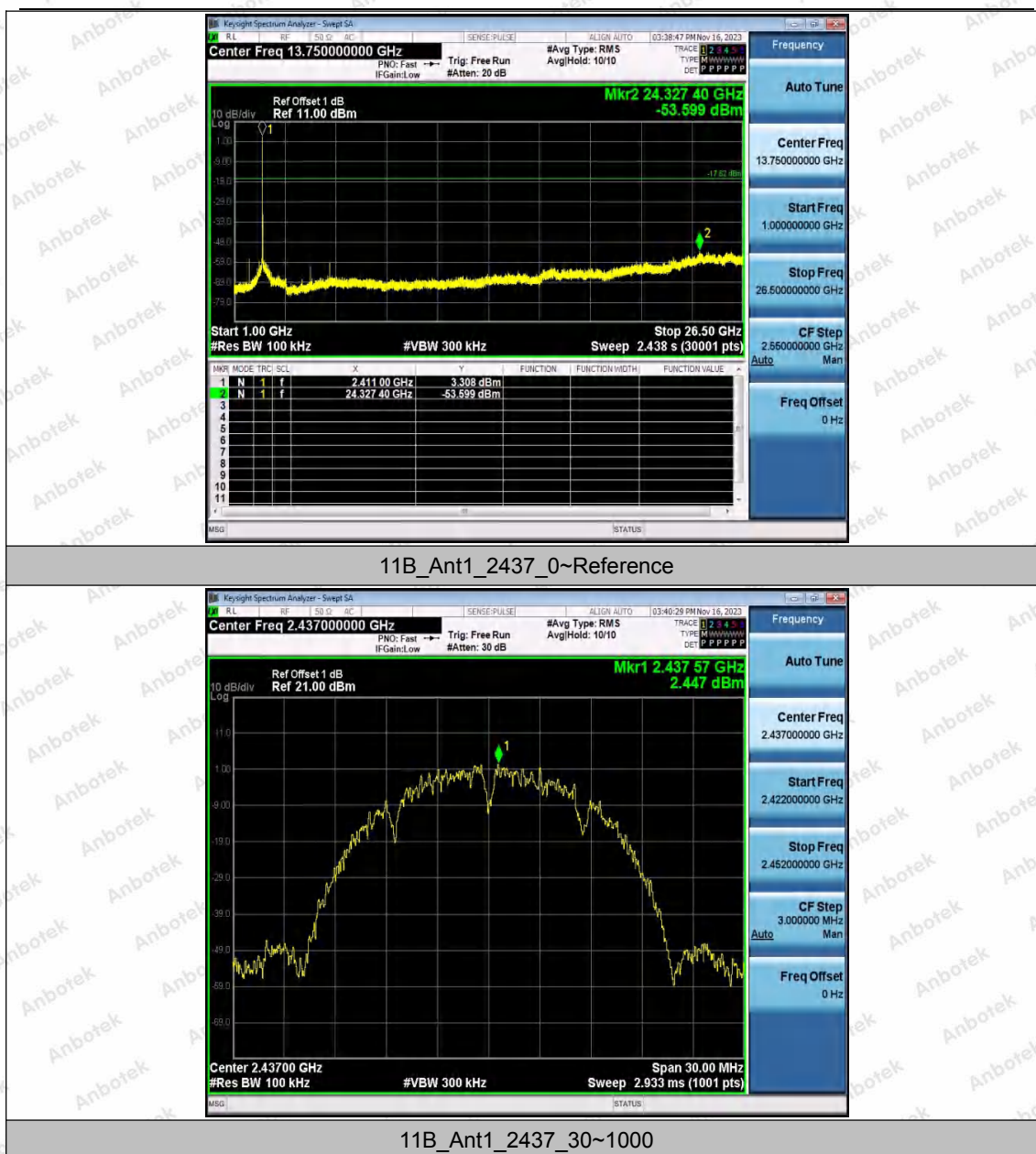
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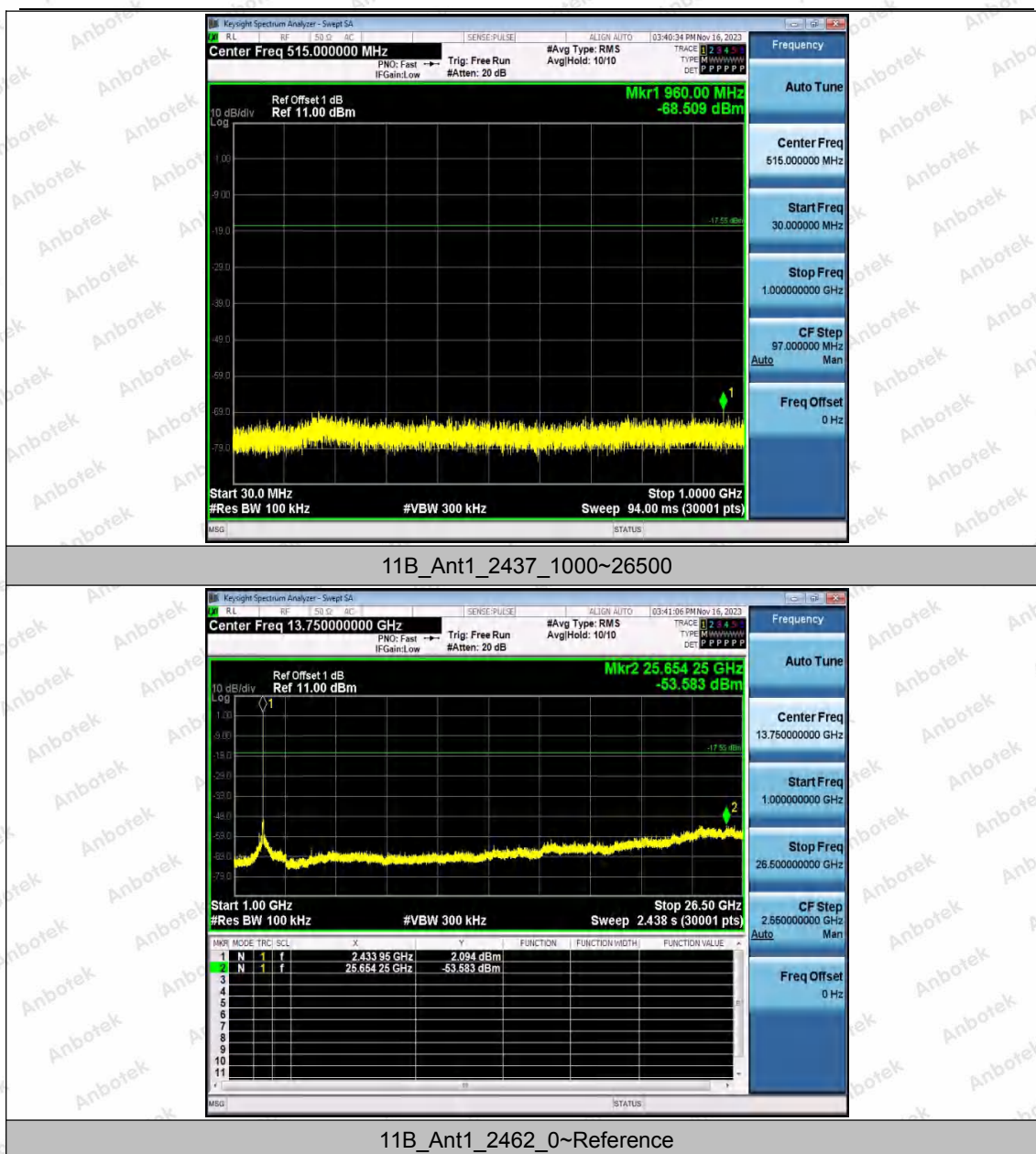
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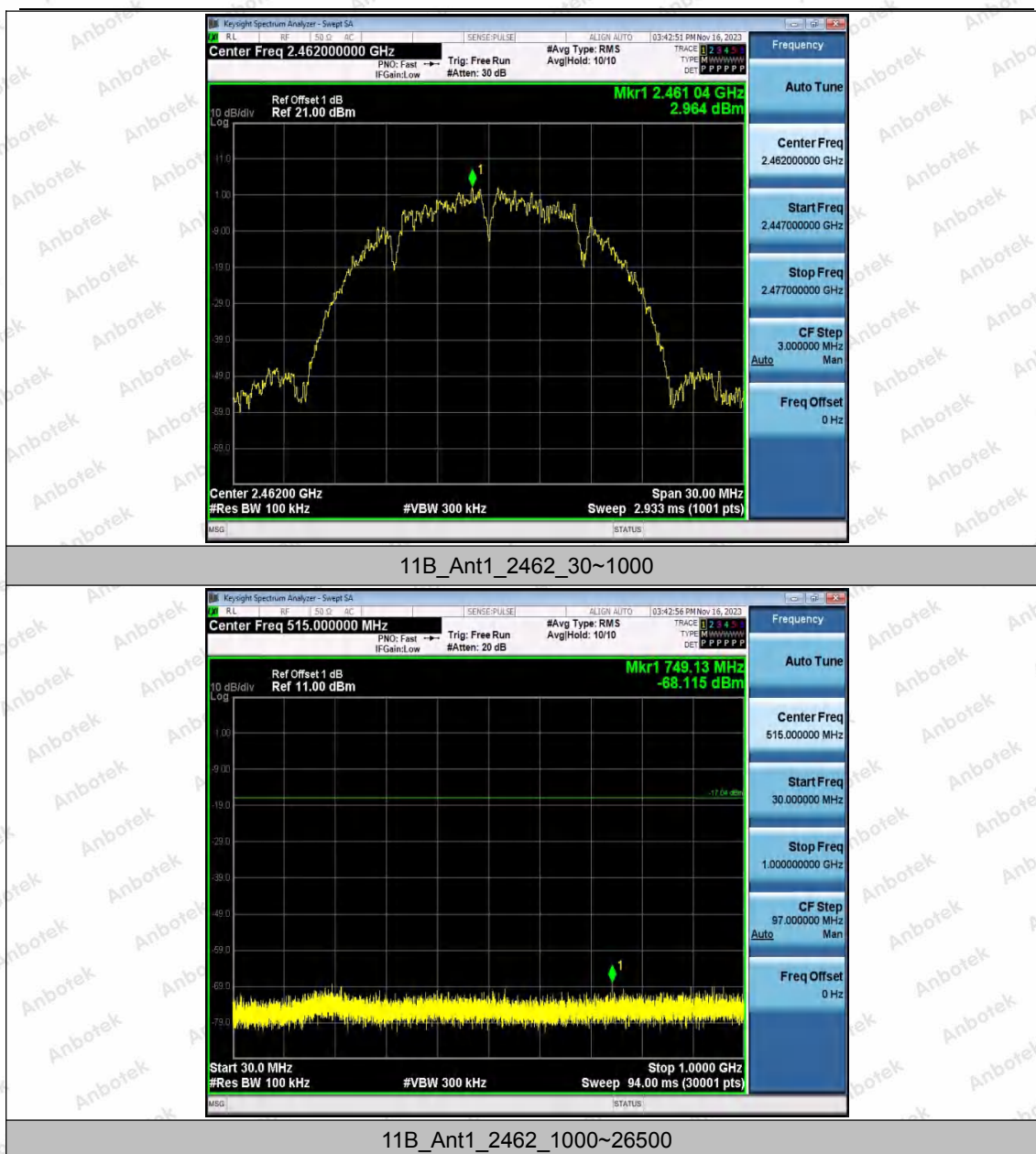
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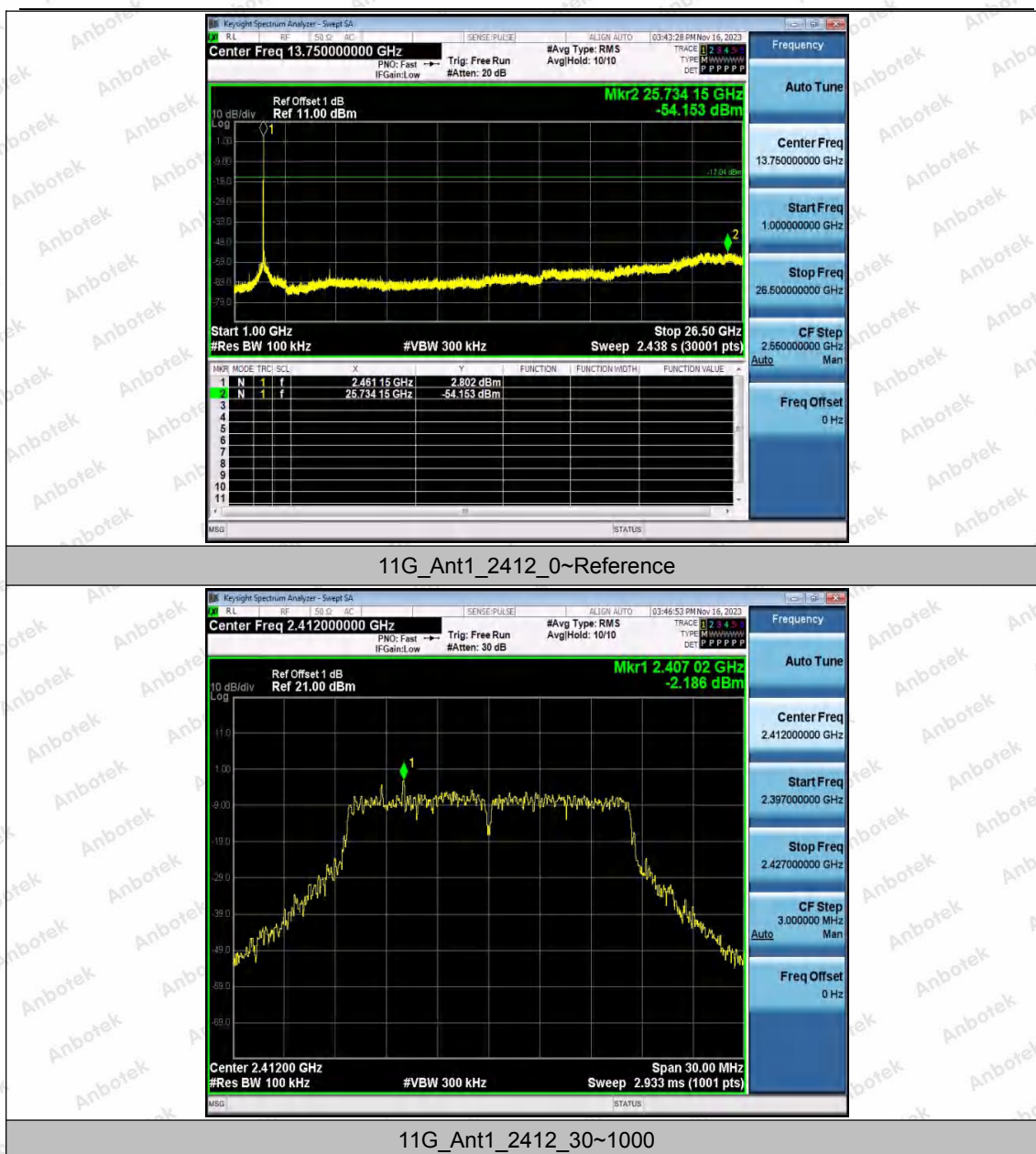
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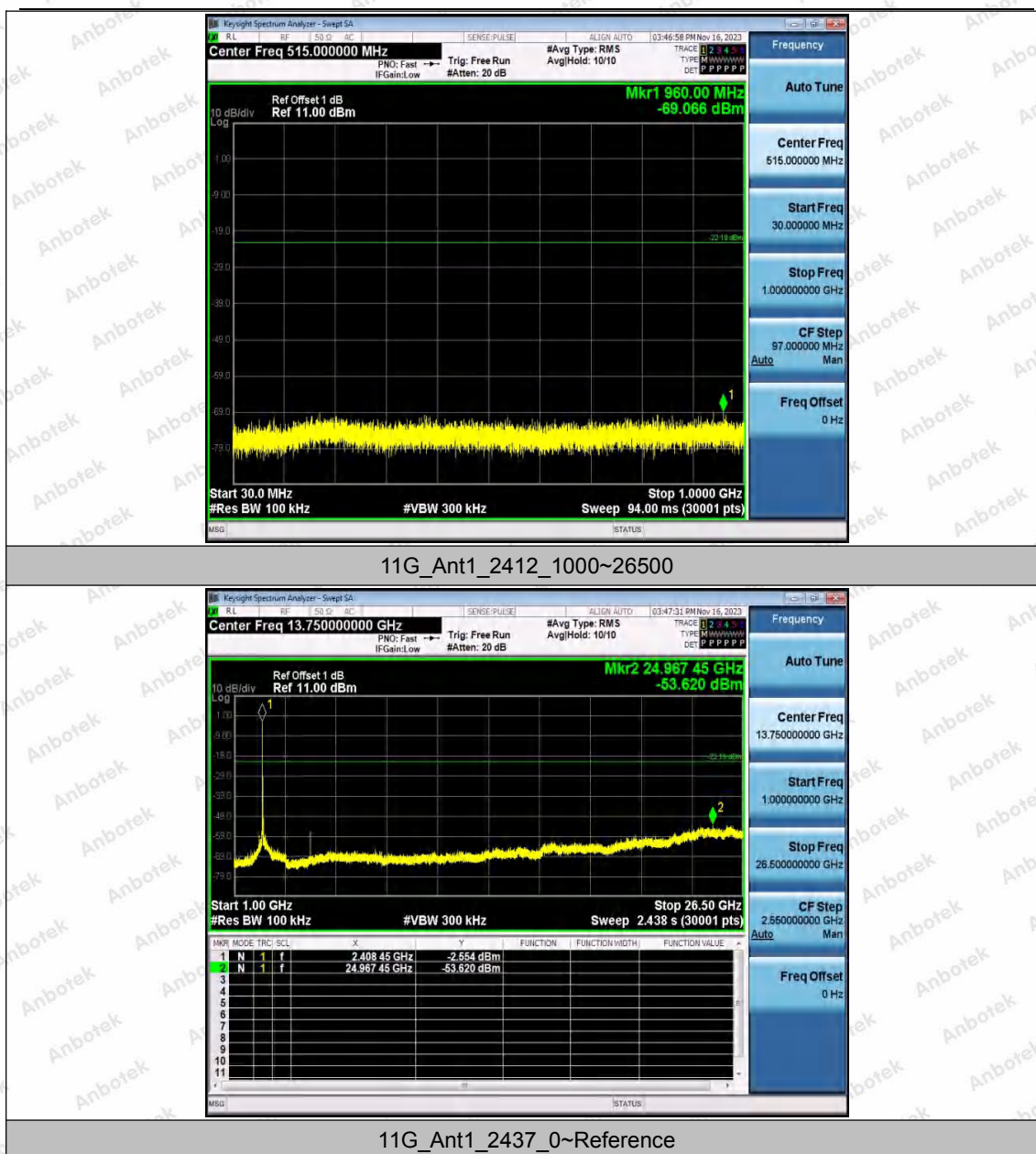
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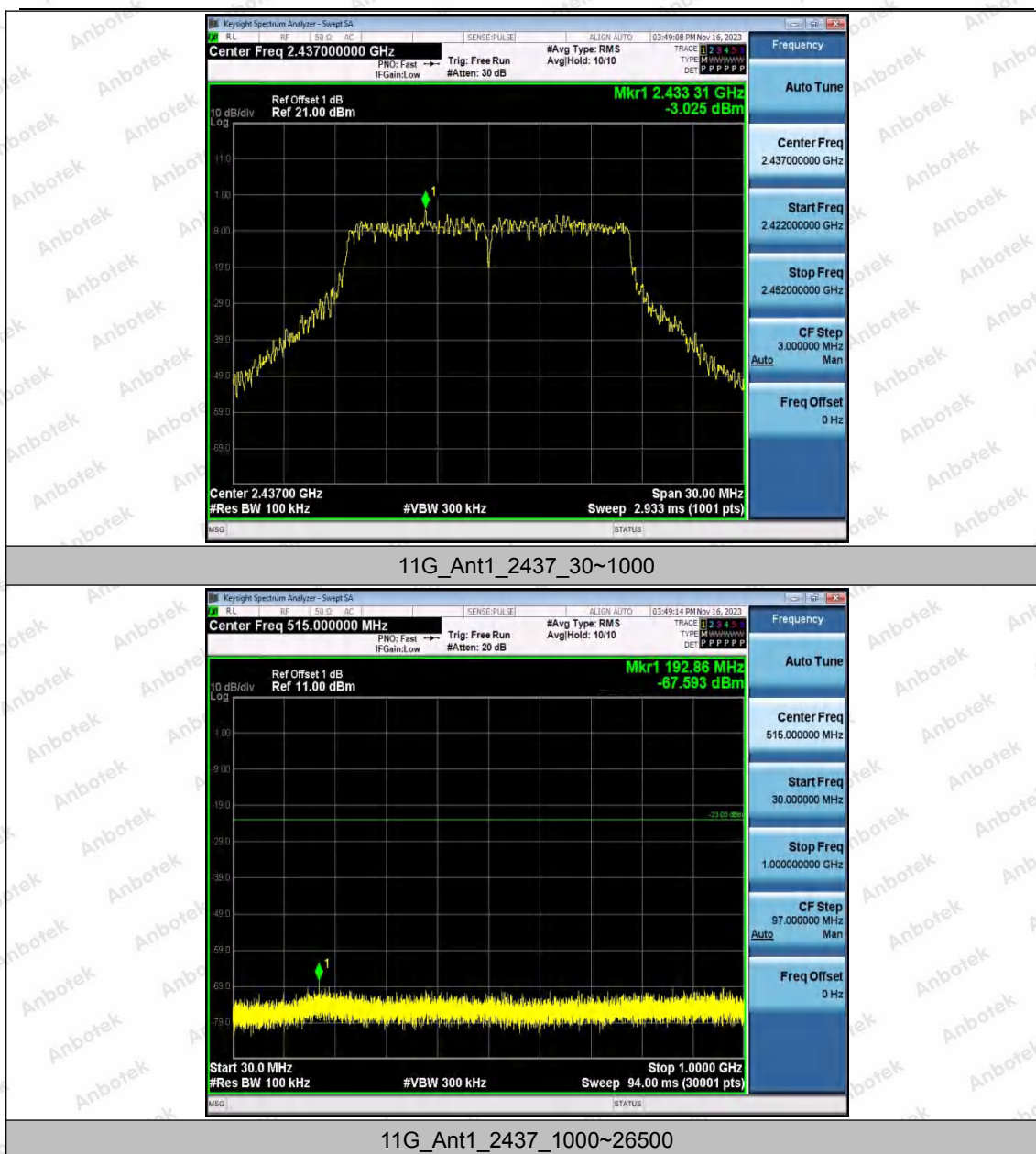
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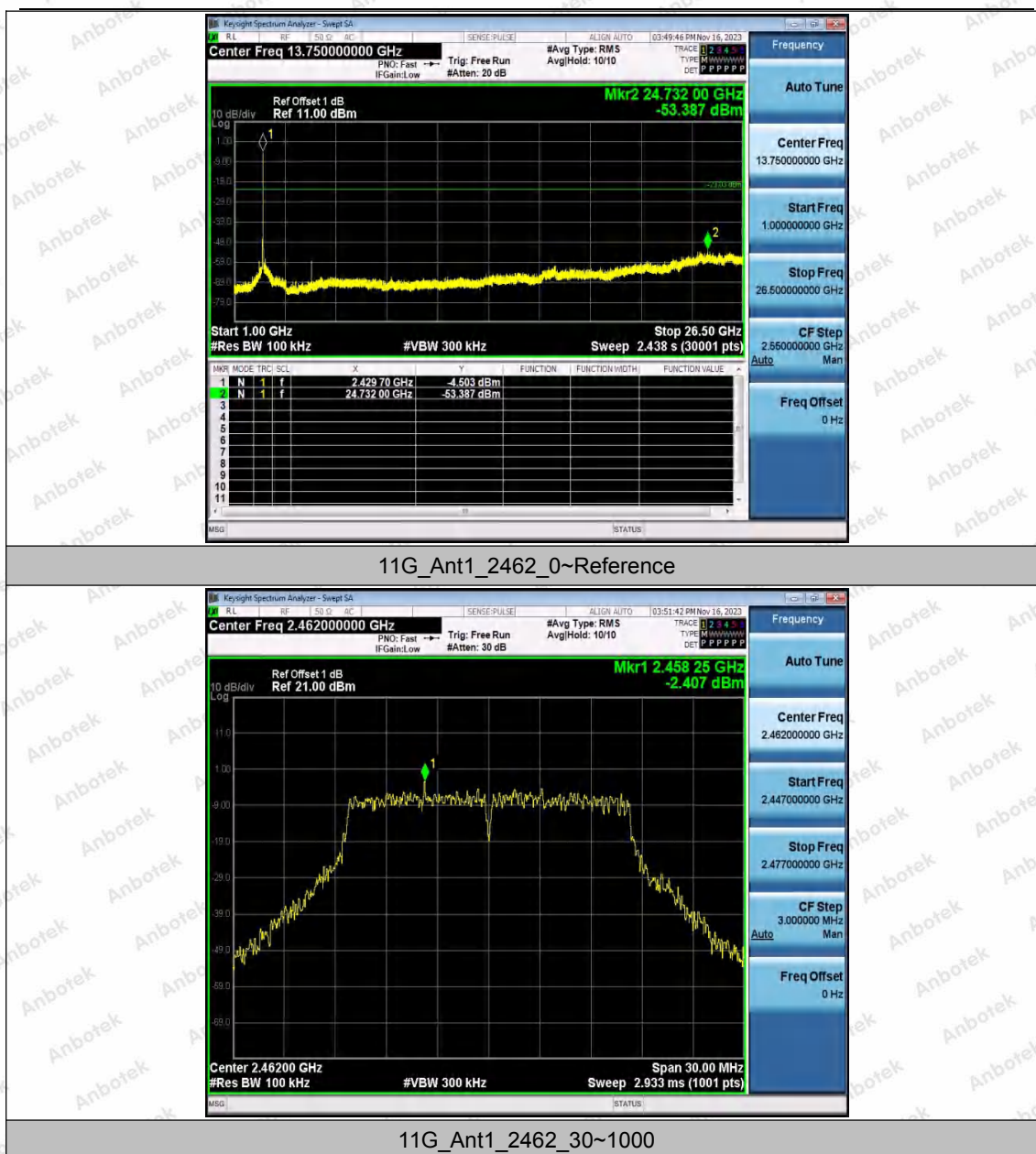
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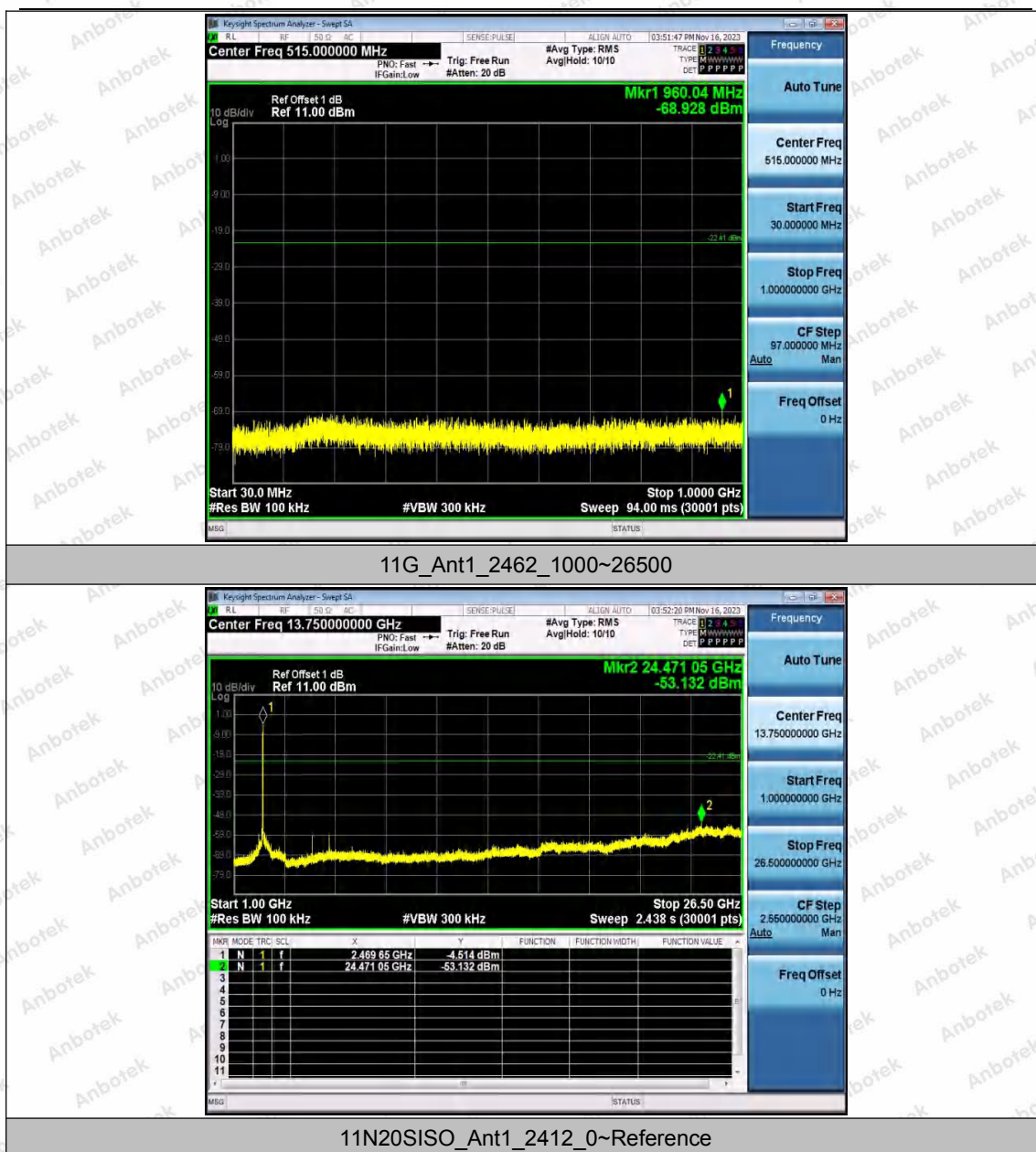
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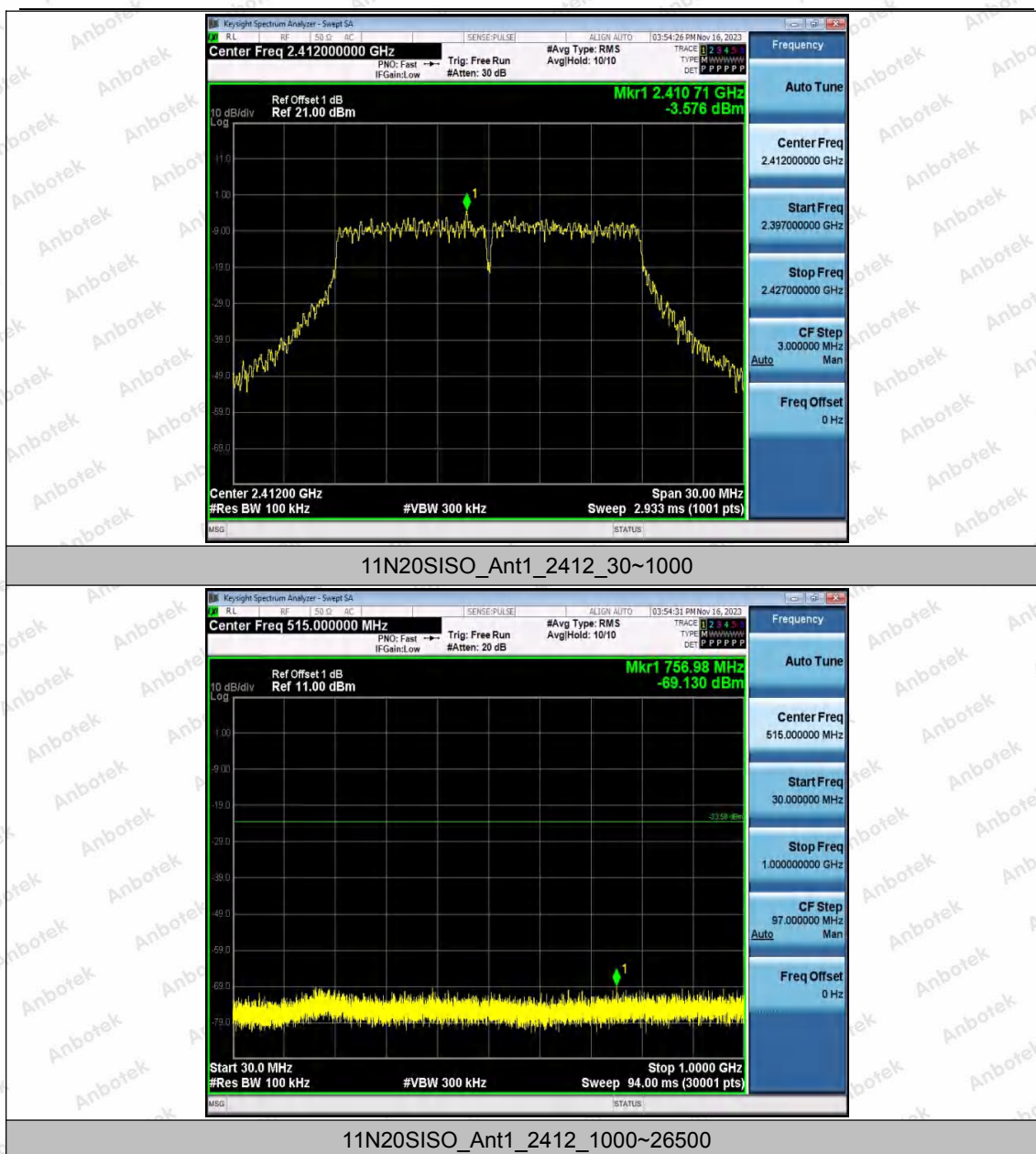
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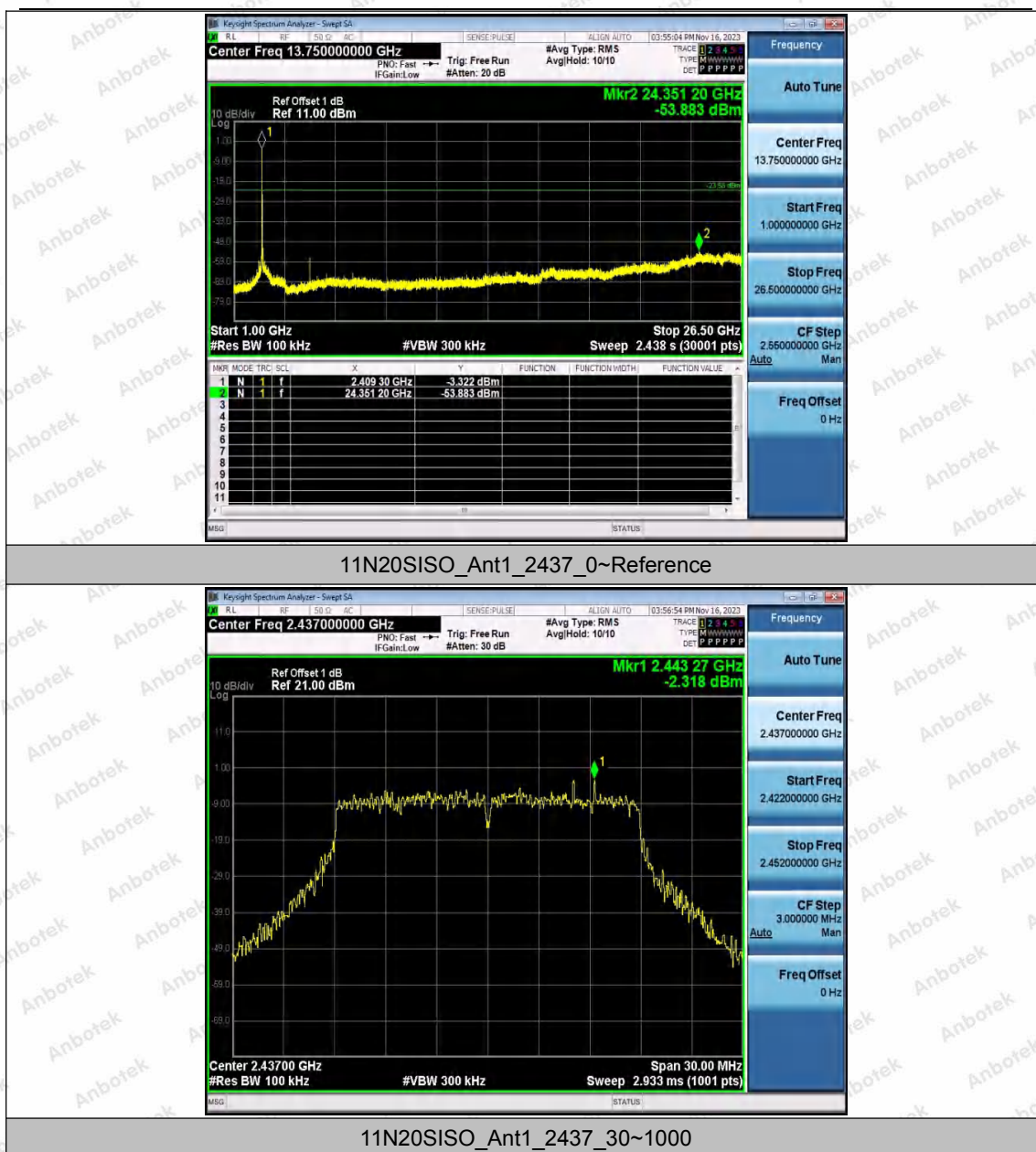
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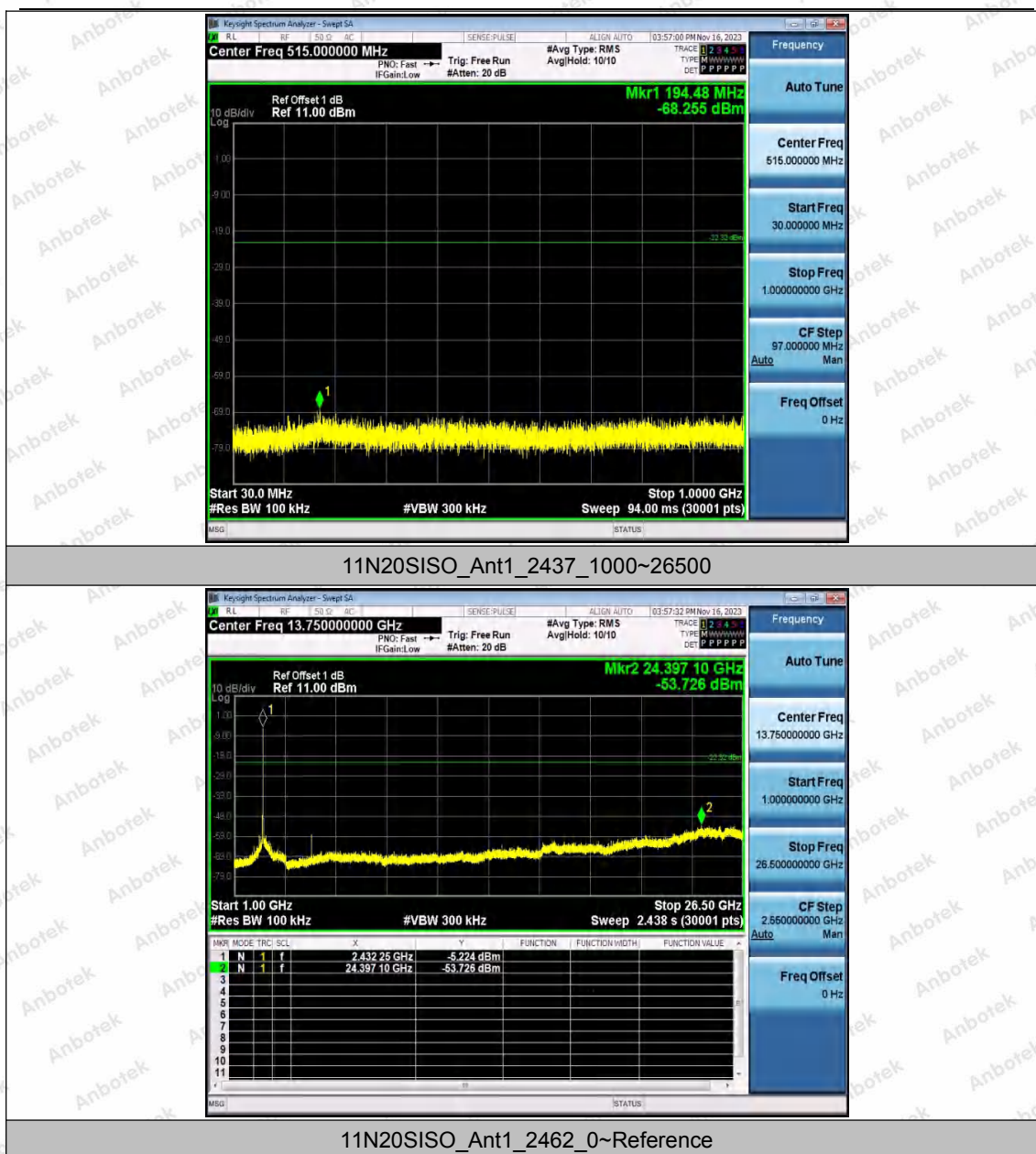
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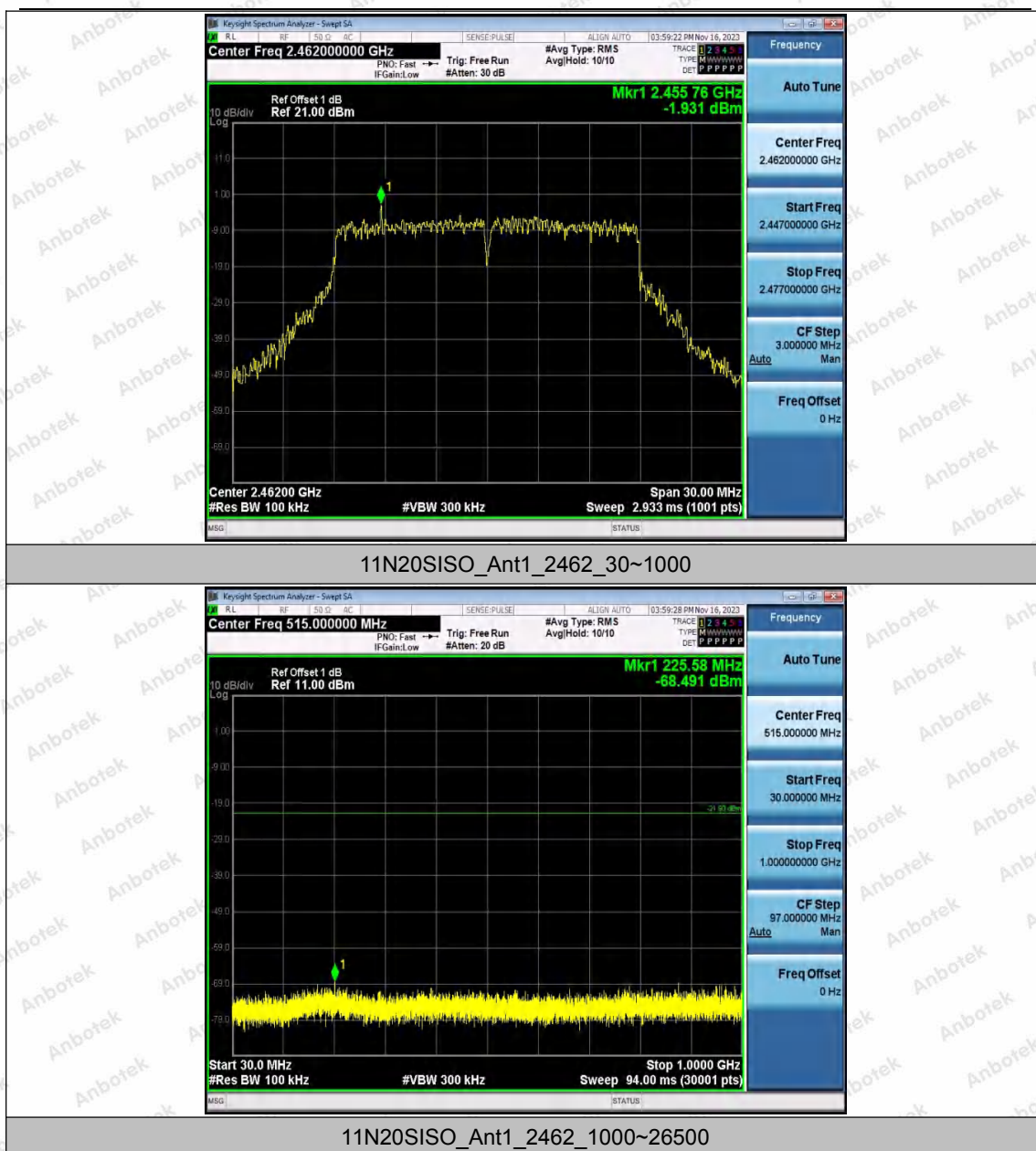
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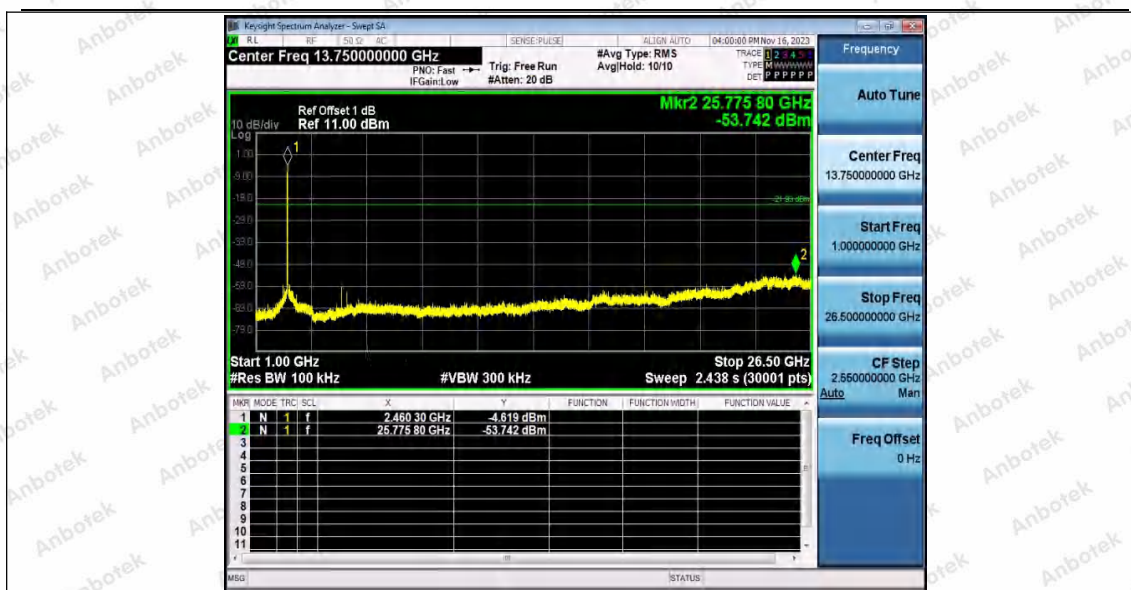
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Appendix G: Duty Cycle

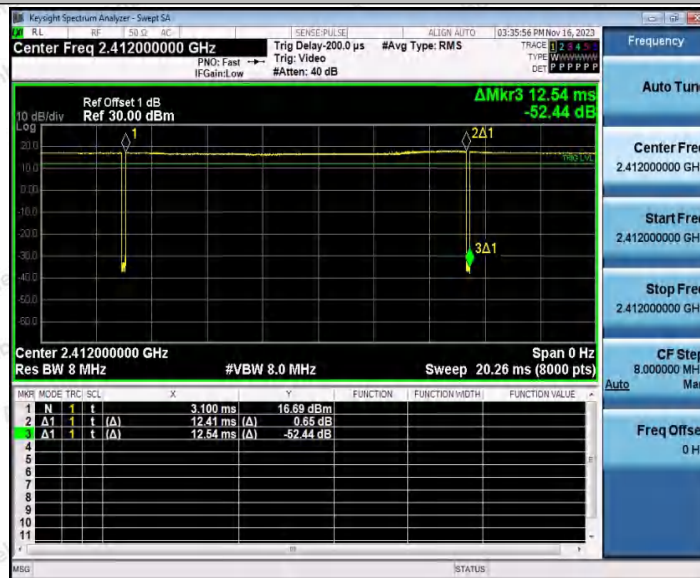
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.41	12.54	98.96	0.05
		2437	12.42	12.55	98.96	0.05
		2462	12.42	12.55	98.96	0.05
11G	Ant1	2412	2.07	2.19	94.52	0.24
		2437	2.07	2.20	94.09	0.26
		2462	2.06	2.19	94.06	0.27
11N20SISO	Ant1	2412	1.93	2.06	93.69	0.28
		2437	1.92	2.05	93.66	0.28
		2462	1.92	2.05	93.66	0.28



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

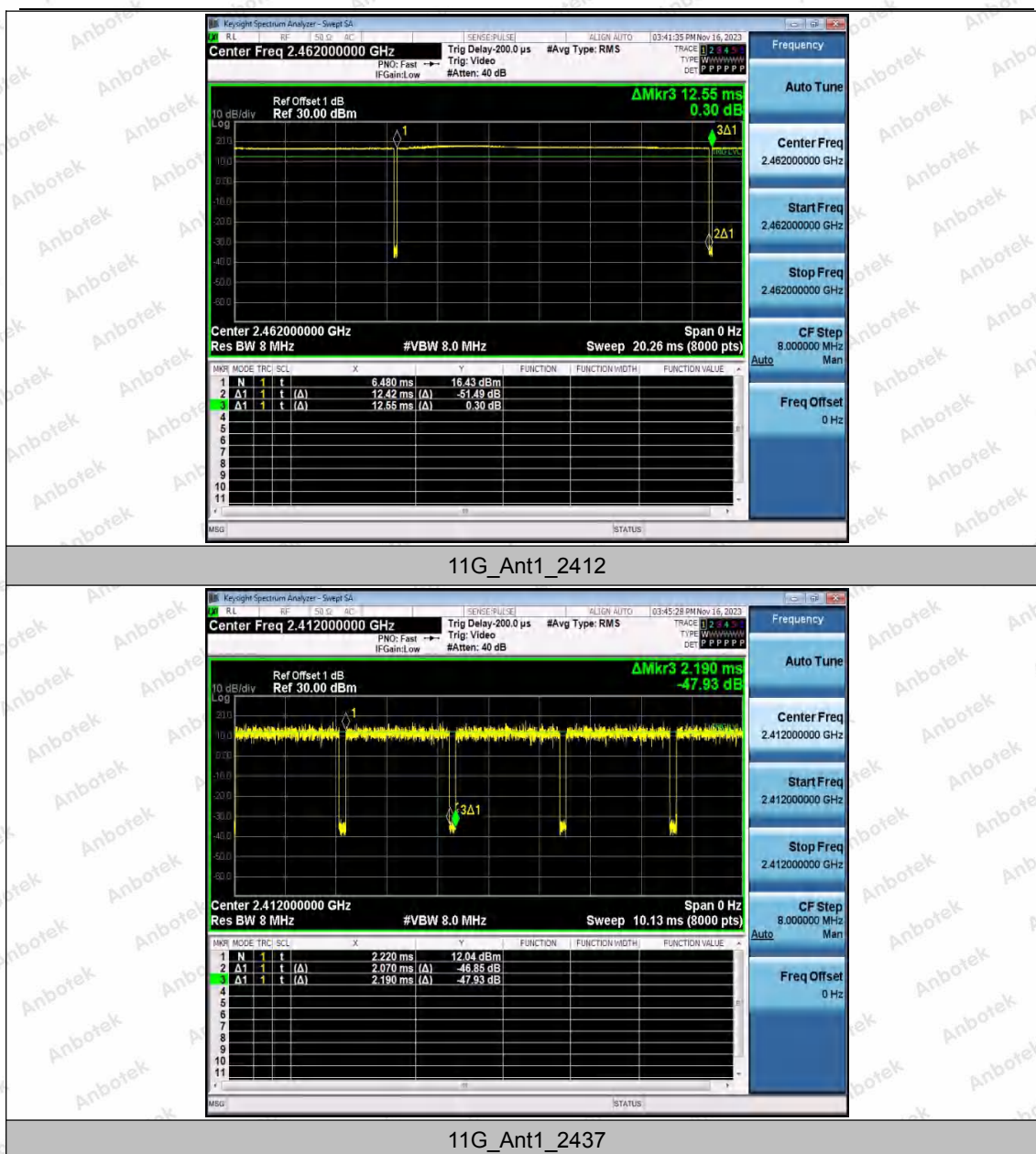
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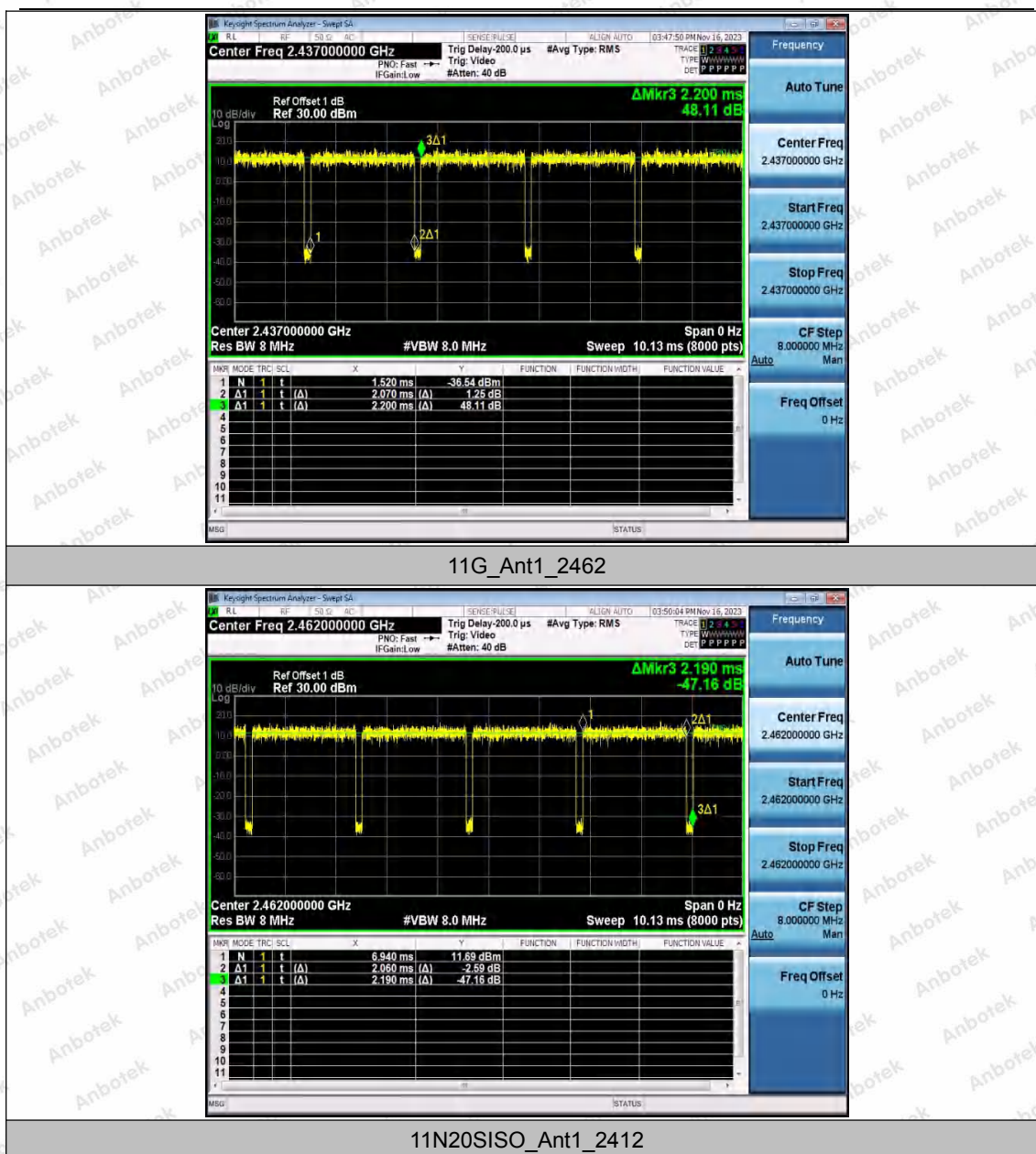
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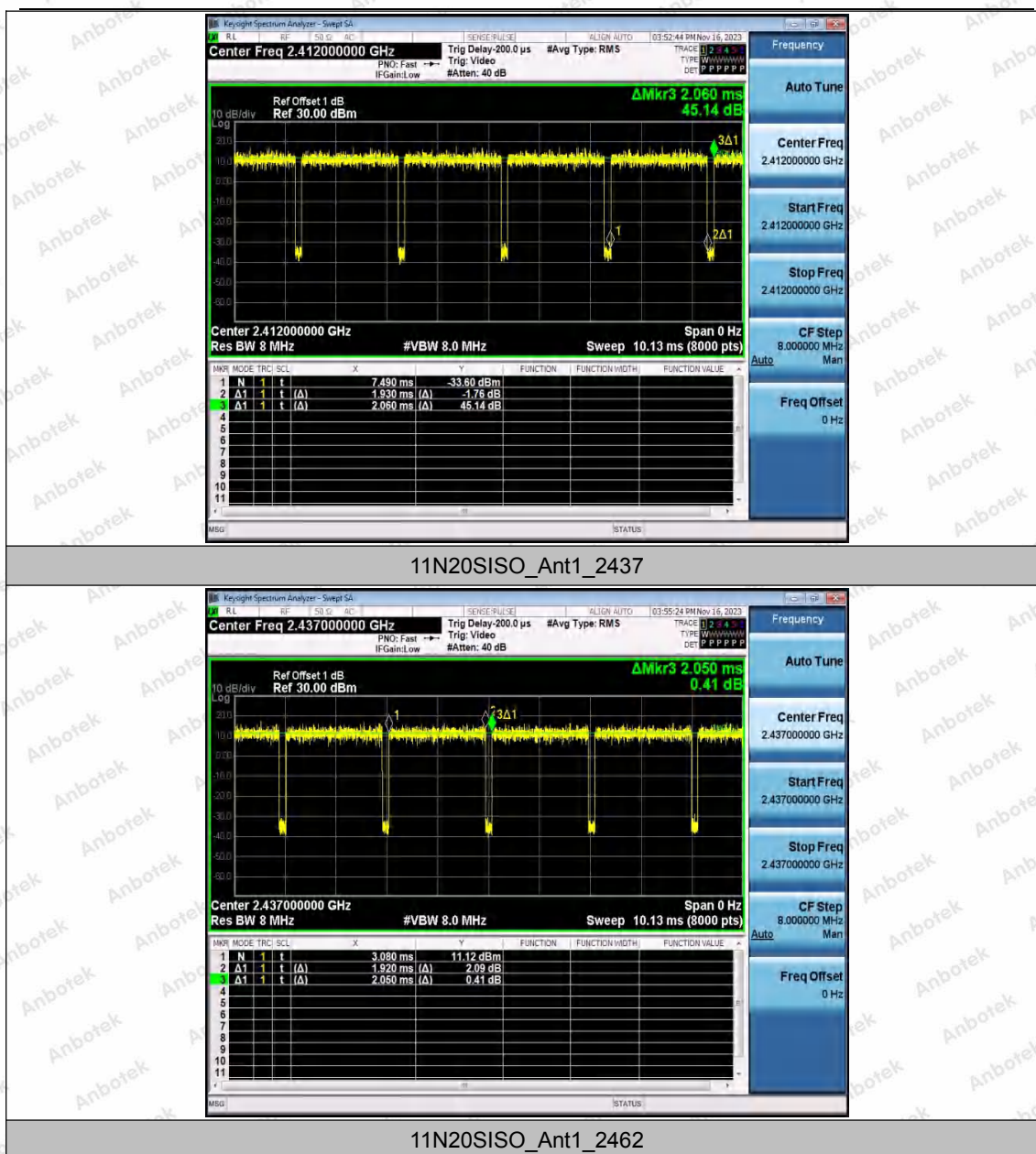
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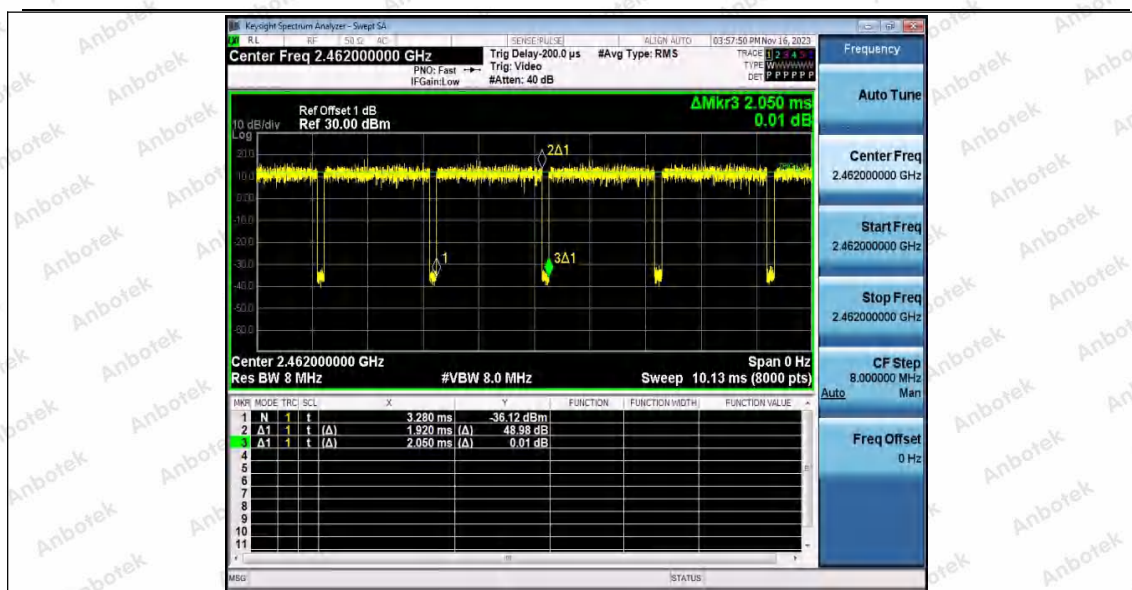
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