

Appendix Test Data

Report No.:	18220WC40023002	Test Sample No.:	1-2-2
Start Test Date:	2024.2.24	Finish Test Date:	2024.2.24
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	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	9.080	2407.480	2416.560	0.5	PASS
		2437	10.000	2432.000	2442.000	0.5	PASS
		2462	10.000	2456.960	2466.960	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	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	17.560	2428.240	2445.800	0.5	PASS
		2462	17.560	2453.240	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

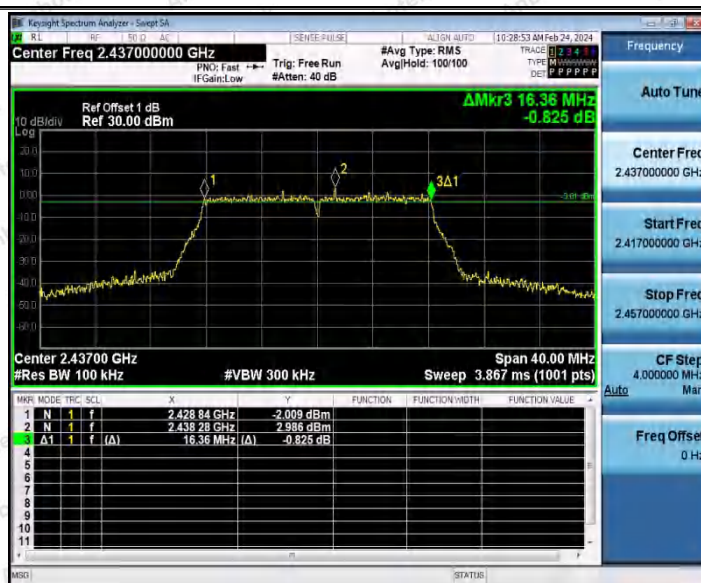
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11G_Ant1_2462



11N20SISO_Ant1_2412

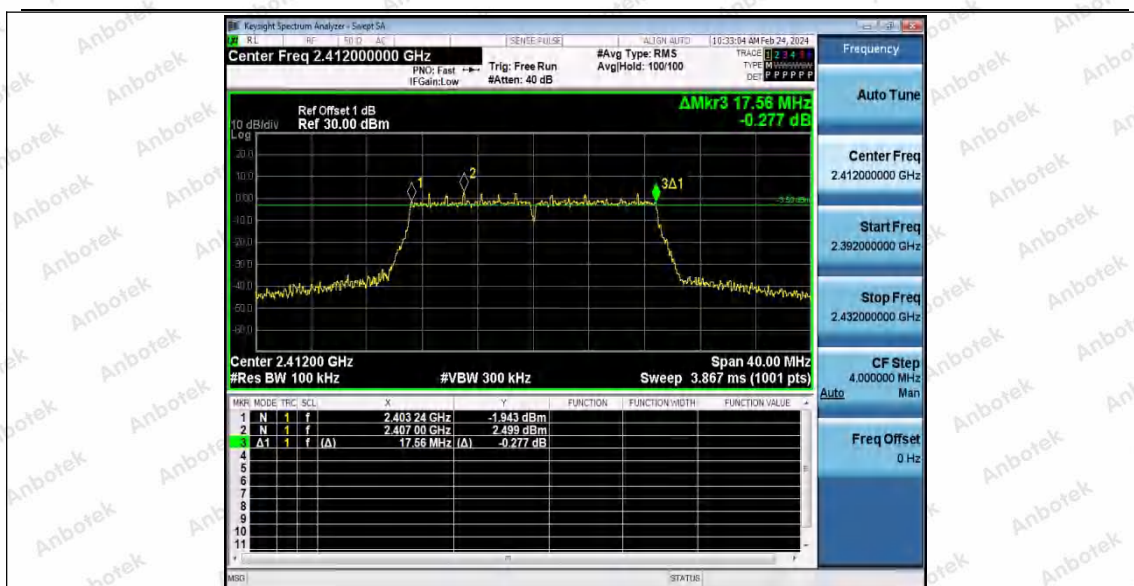
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11N20SISO_Ant1_2437



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	14.275	2404.9247	2419.1997	---	---
		2437	14.275	2429.9083	2444.1833	---	---
		2462	14.267	2454.8789	2469.1459	---	---
11G	Ant1	2412	17.118	2403.4925	2420.6105	---	---
		2437	17.088	2428.4993	2445.5873	---	---
		2462	17.078	2453.4430	2470.5210	---	---
11N20SISO	Ant1	2412	18.007	2403.0531	2421.0601	---	---
		2437	18.005	2428.0646	2446.0696	---	---
		2462	17.940	2453.0673	2471.0073	---	---



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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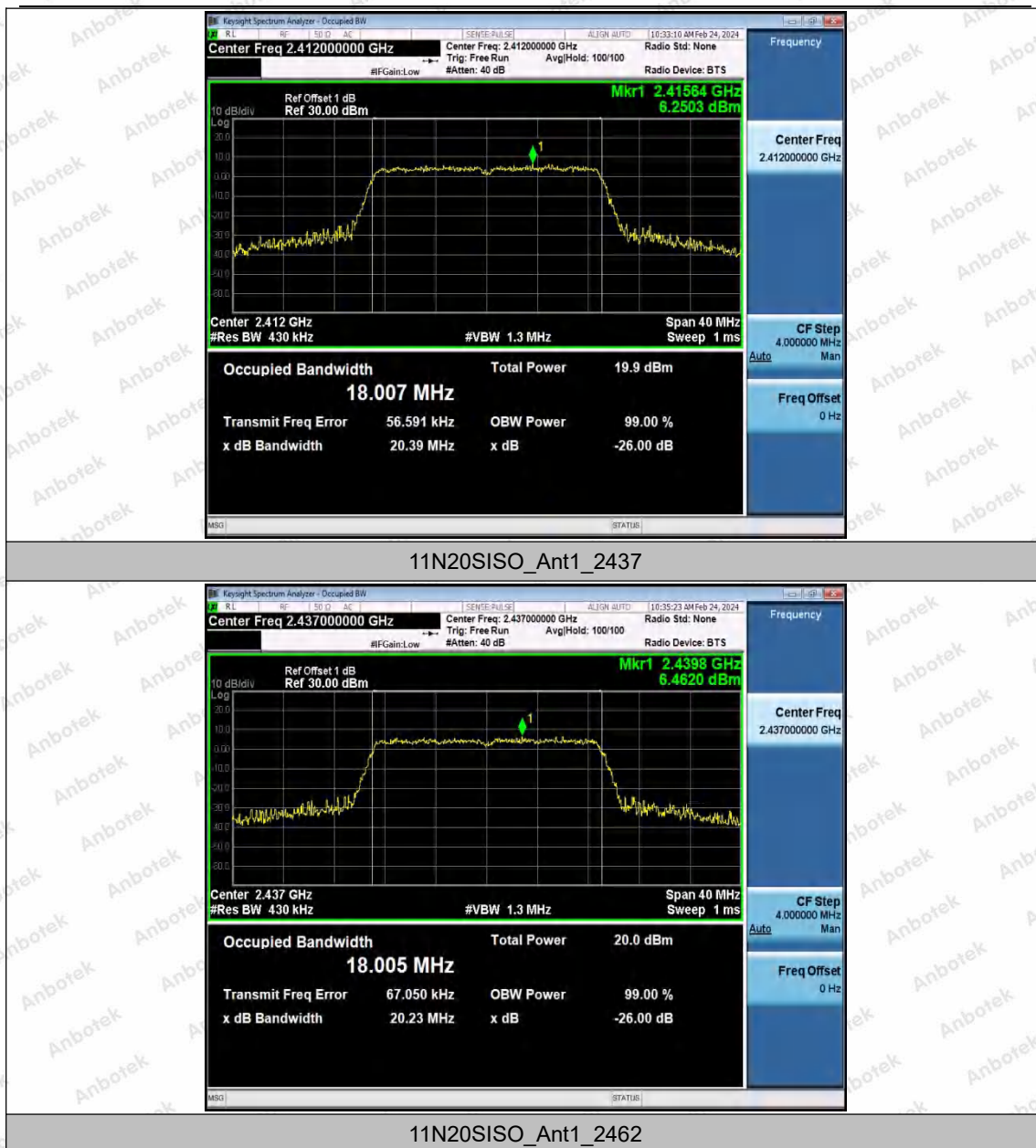
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Appendix C: Maximum conducted output power

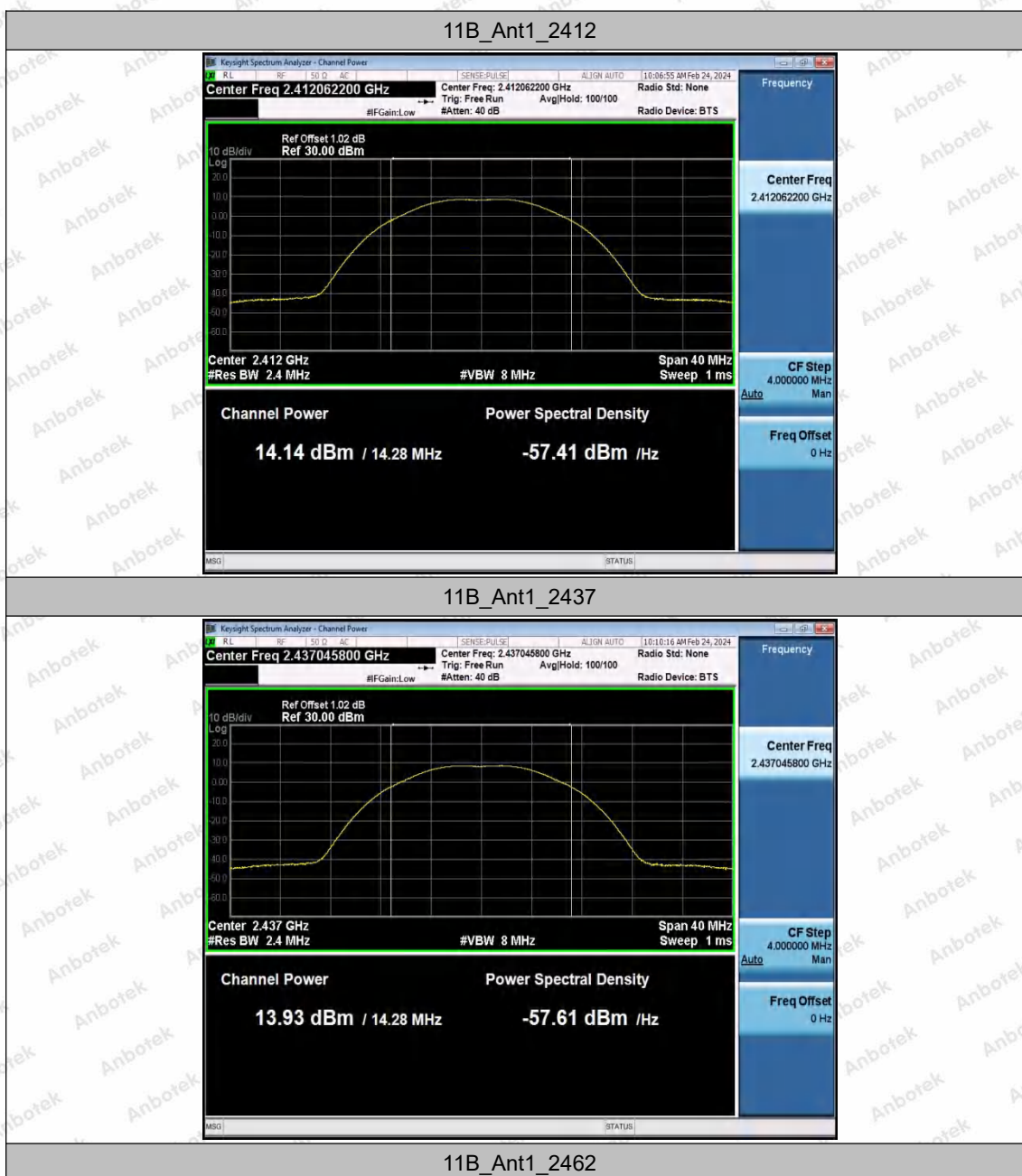
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.14	≤30.00
		2437	13.93	≤30.00
		2462	13.59	≤30.00
11G	Ant1	2412	13.80	≤30.00
		2437	13.92	≤30.00
		2462	13.55	≤30.00
11N20SISO	Ant1	2412	13.73	≤30.00
		2437	13.86	≤30.00
		2462	13.57	≤30.00

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



Test Graphs



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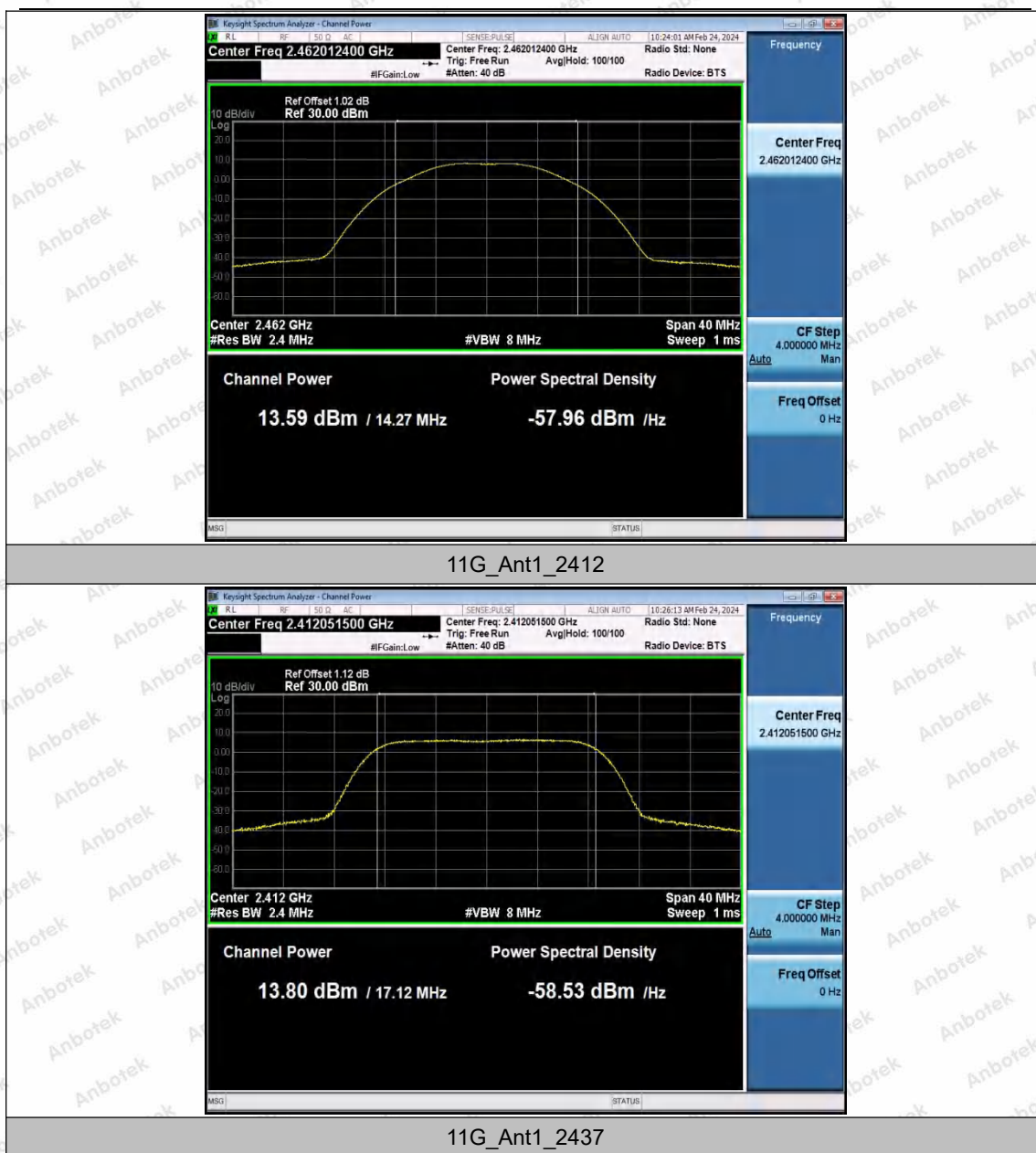


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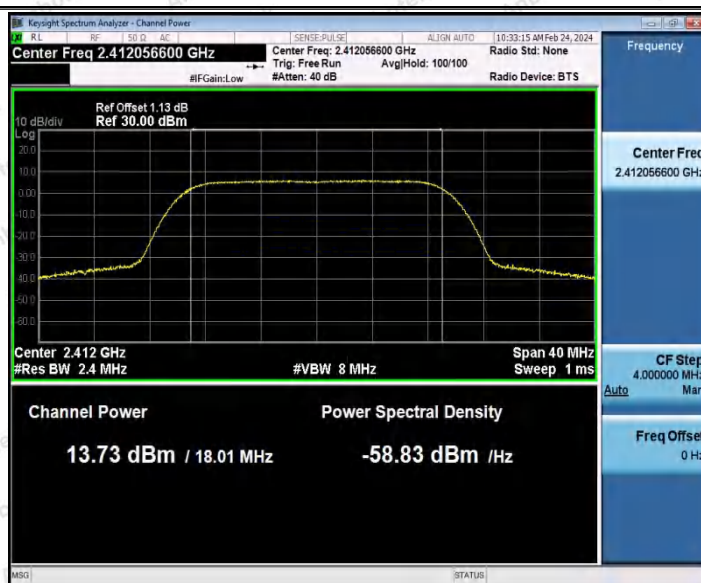
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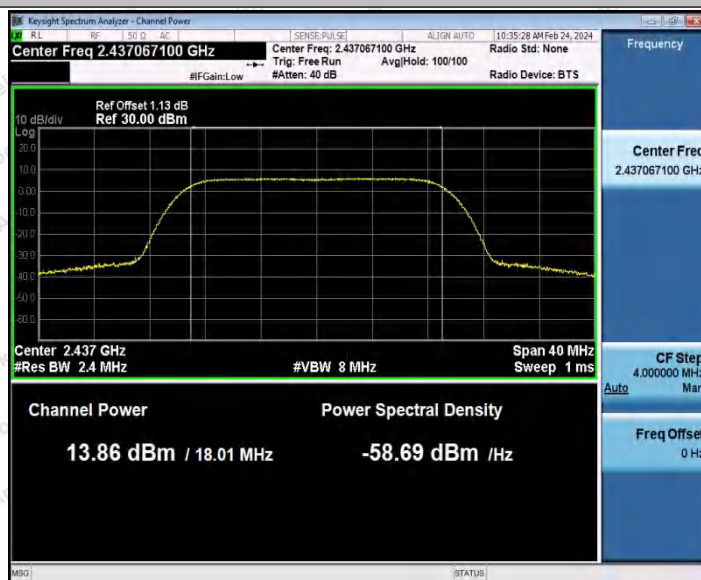


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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

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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	-8.21	-18.21	≤8.00	PASS
		2437	-8.48	-18.48	≤8.00	PASS
		2462	-8.36	-18.36	≤8.00	PASS
11G	Ant1	2412	-10.61	-20.61	≤8.00	PASS
		2437	-10.3	-20.30	≤8.00	PASS
		2462	-10.45	-20.45	≤8.00	PASS
11N20SISO	Ant1	2412	-10.29	-20.29	≤8.00	PASS
		2437	-9.86	-19.86	≤8.00	PASS
		2462	-10.89	-20.89	≤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

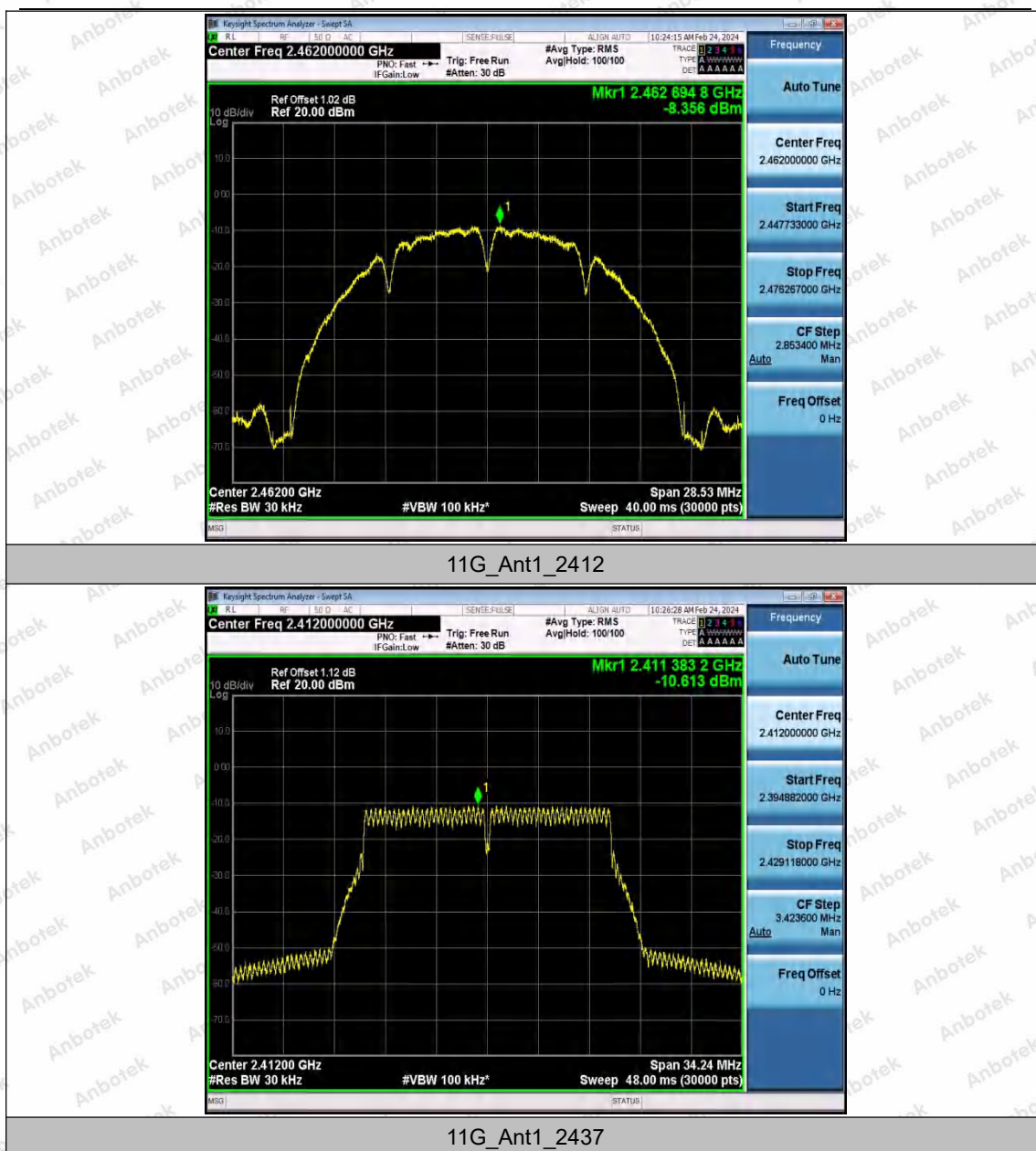
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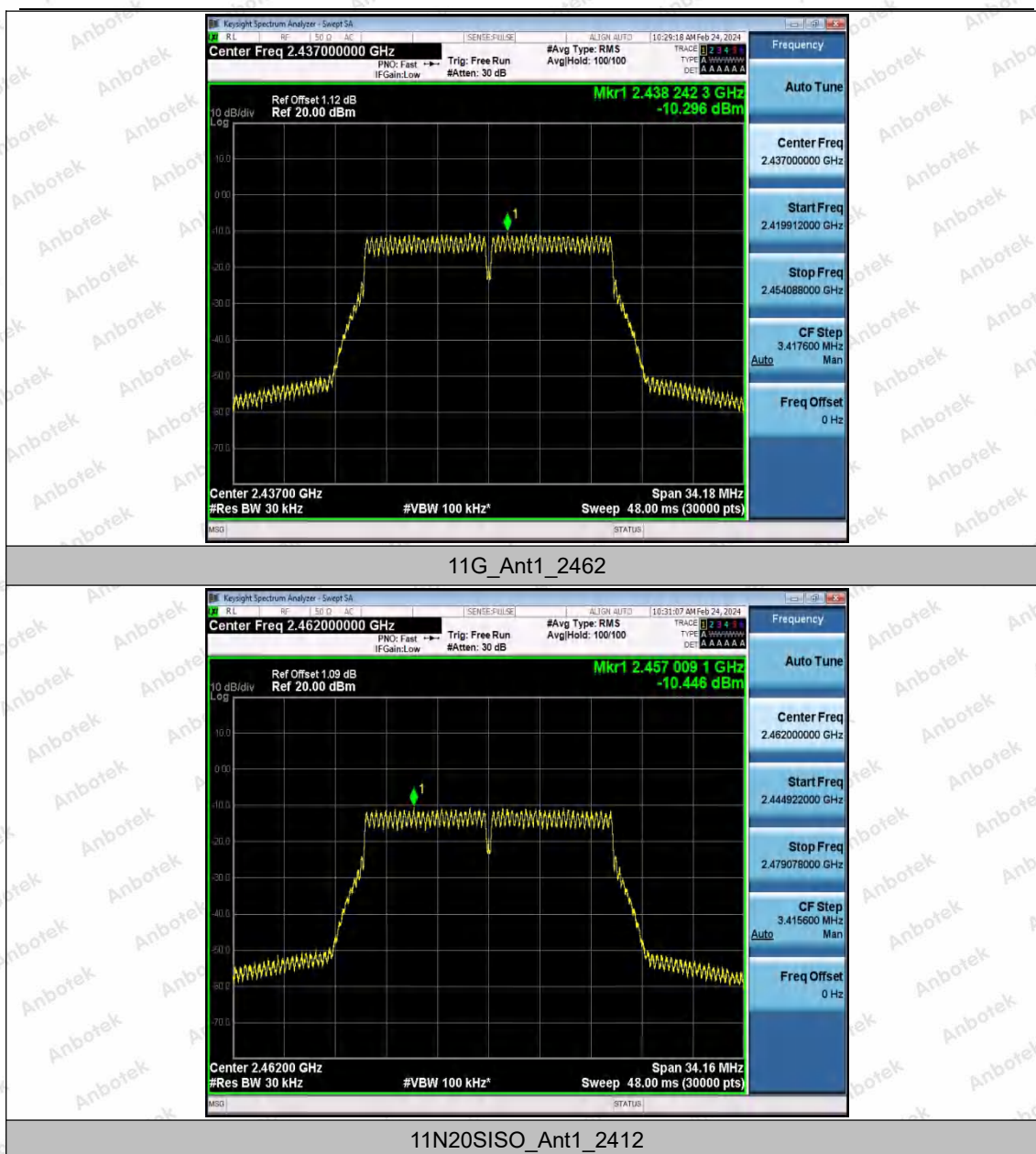
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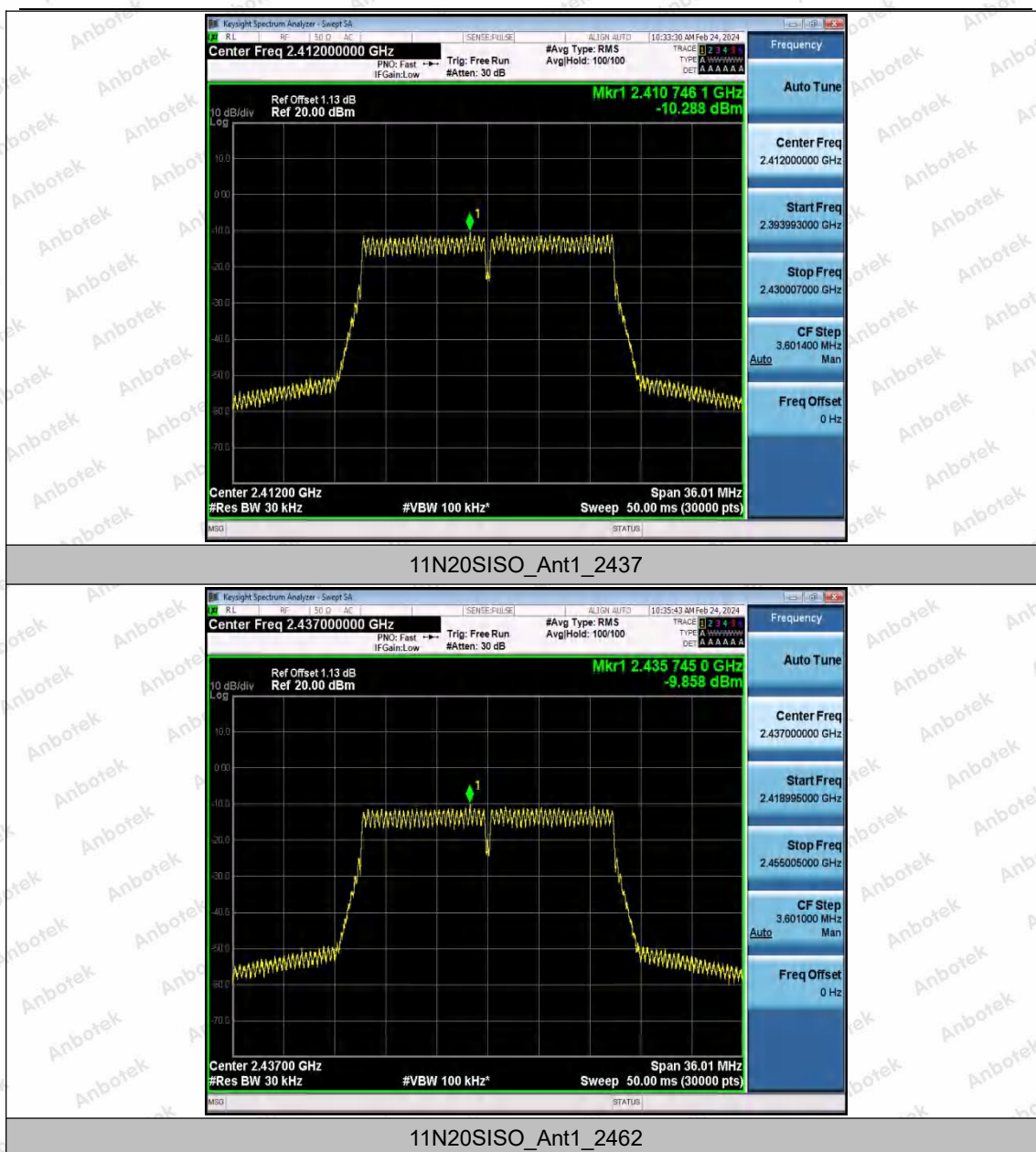
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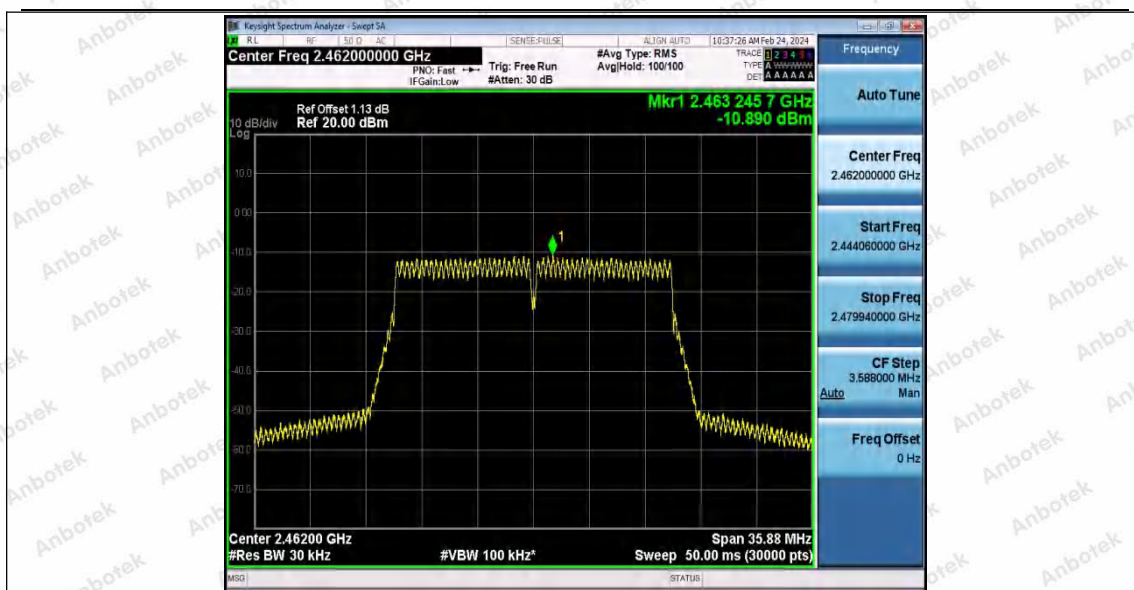
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.60	-46.27	≤-25.4	PASS
		High	2462	4.14	-54.12	≤-25.86	PASS
11G	Ant1	Low	2412	2.80	-36.79	≤-27.2	PASS
		High	2462	2.24	-48.4	≤-27.76	PASS
11N20SISO	Ant1	Low	2412	2.36	-36.55	≤-27.64	PASS
		High	2462	2.36	-47.49	≤-27.64	PASS

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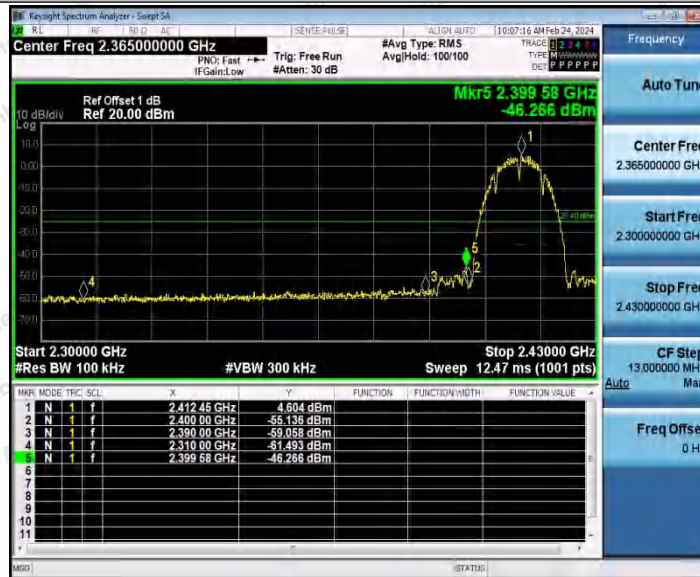


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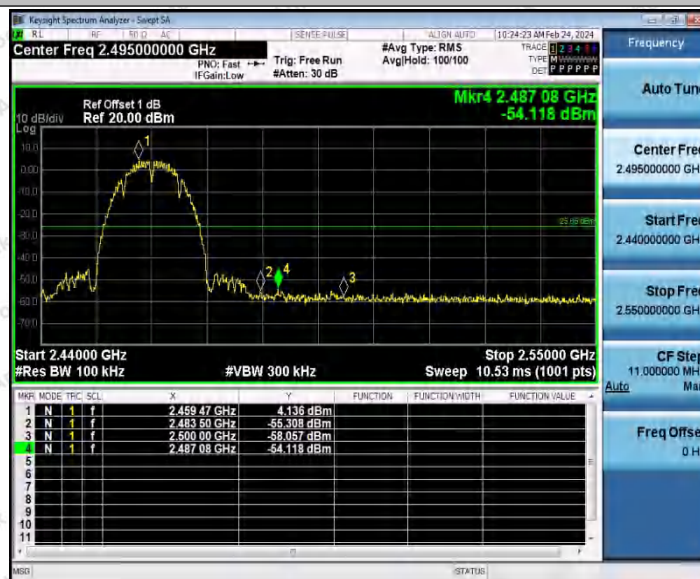


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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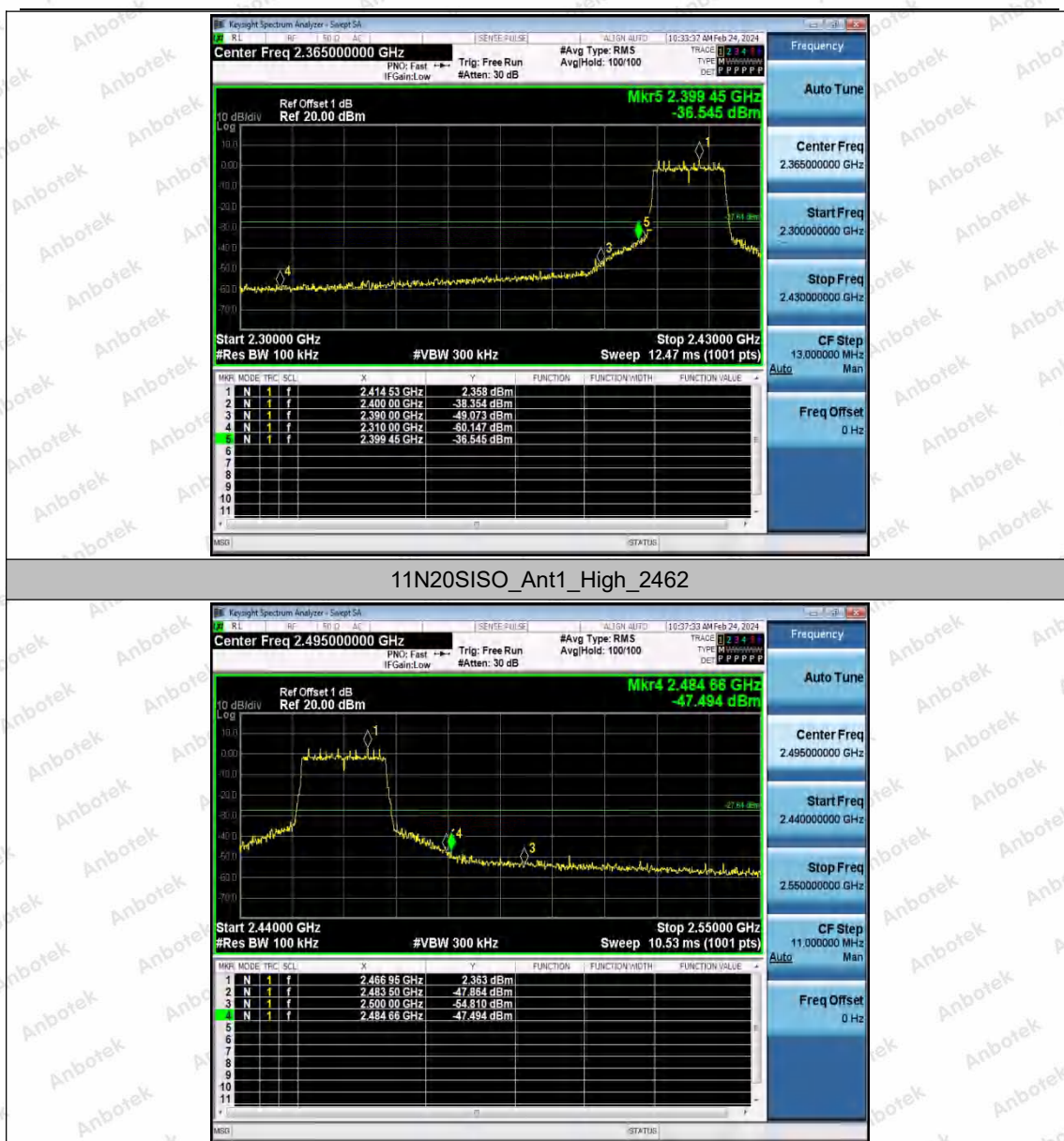
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.62	3.62	---	PASS
			30~1000	3.62	-68.65	≤-26.38	PASS
			1000~26500	3.62	-53.66	≤-26.38	PASS
		2437	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-68.5	≤-26.1	PASS
			1000~26500	3.90	-53.94	≤-26.1	PASS
		2462	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-62.56	≤-26.77	PASS
			1000~26500	3.23	-53.64	≤-26.77	PASS
11G	Ant1	2412	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-68.1	≤-29.06	PASS
			1000~26500	0.94	-53.96	≤-29.06	PASS
		2437	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-67.83	≤-28.21	PASS
			1000~26500	1.79	-53.56	≤-28.21	PASS
		2462	Reference	0.81	0.81	---	PASS
			30~1000	0.81	-68.65	≤-29.19	PASS
			1000~26500	0.81	-53.14	≤-29.19	PASS
11N20SISO	Ant1	2412	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-69.06	≤-29.6	PASS
			1000~26500	0.40	-53.7	≤-29.6	PASS
		2437	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-69.21	≤-30.84	PASS
			1000~26500	-0.84	-51.53	≤-30.84	PASS
		2462	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-68.89	≤-28.91	PASS
			1000~26500	1.09	-53.66	≤-28.91	PASS

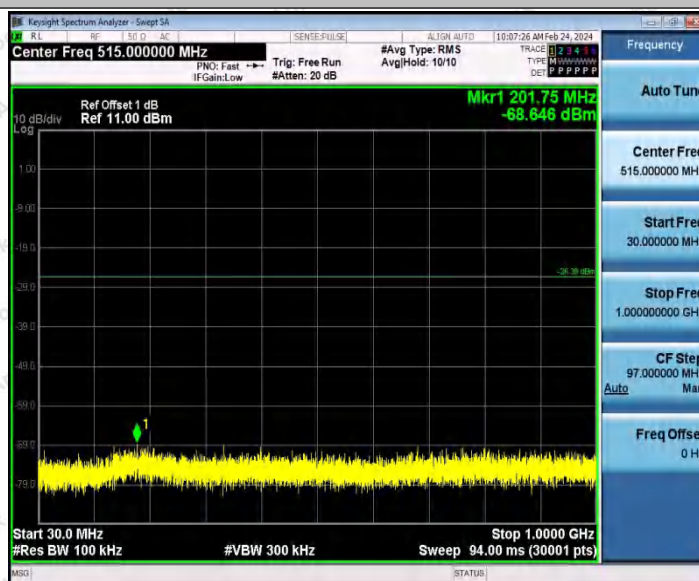


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

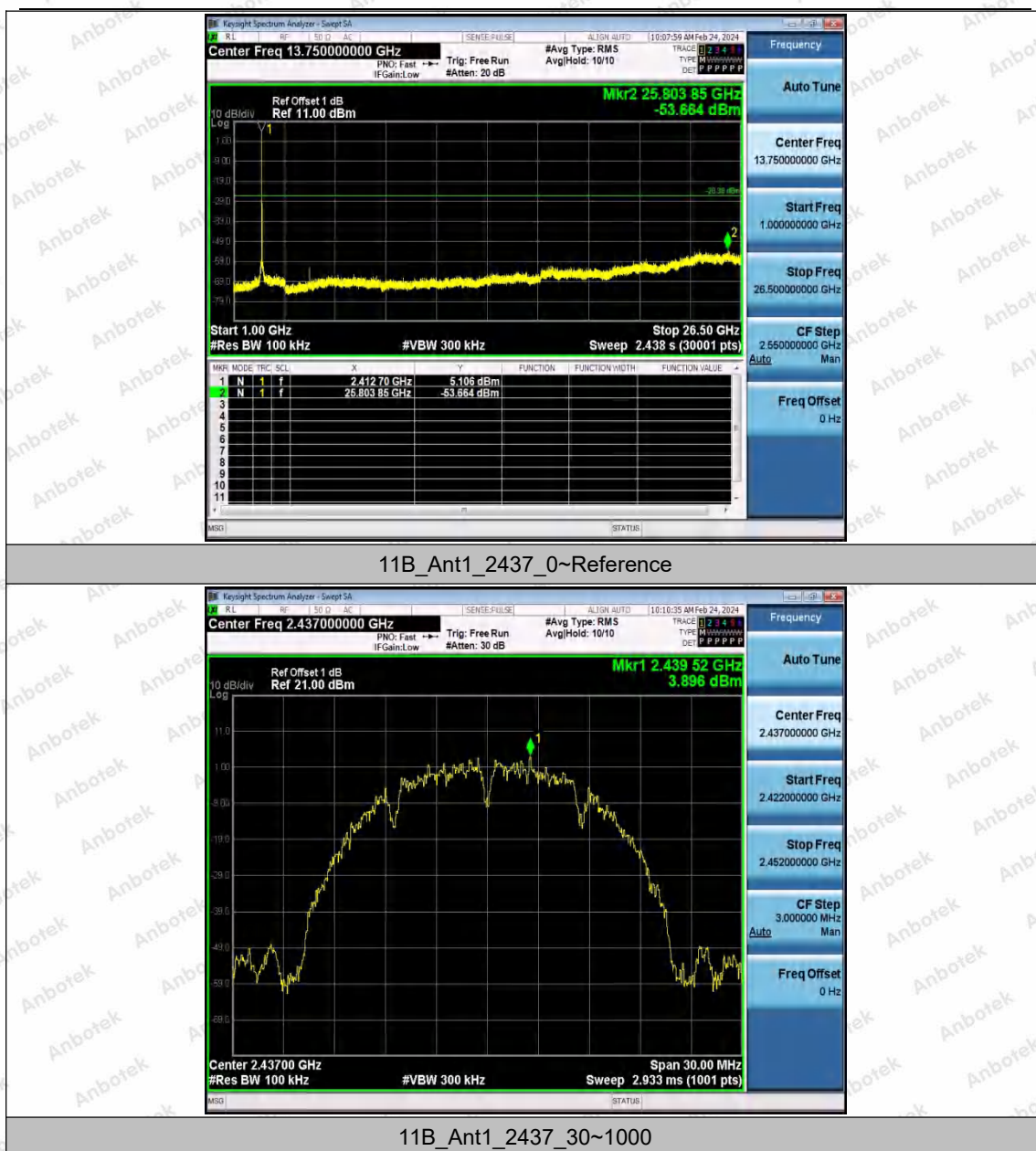
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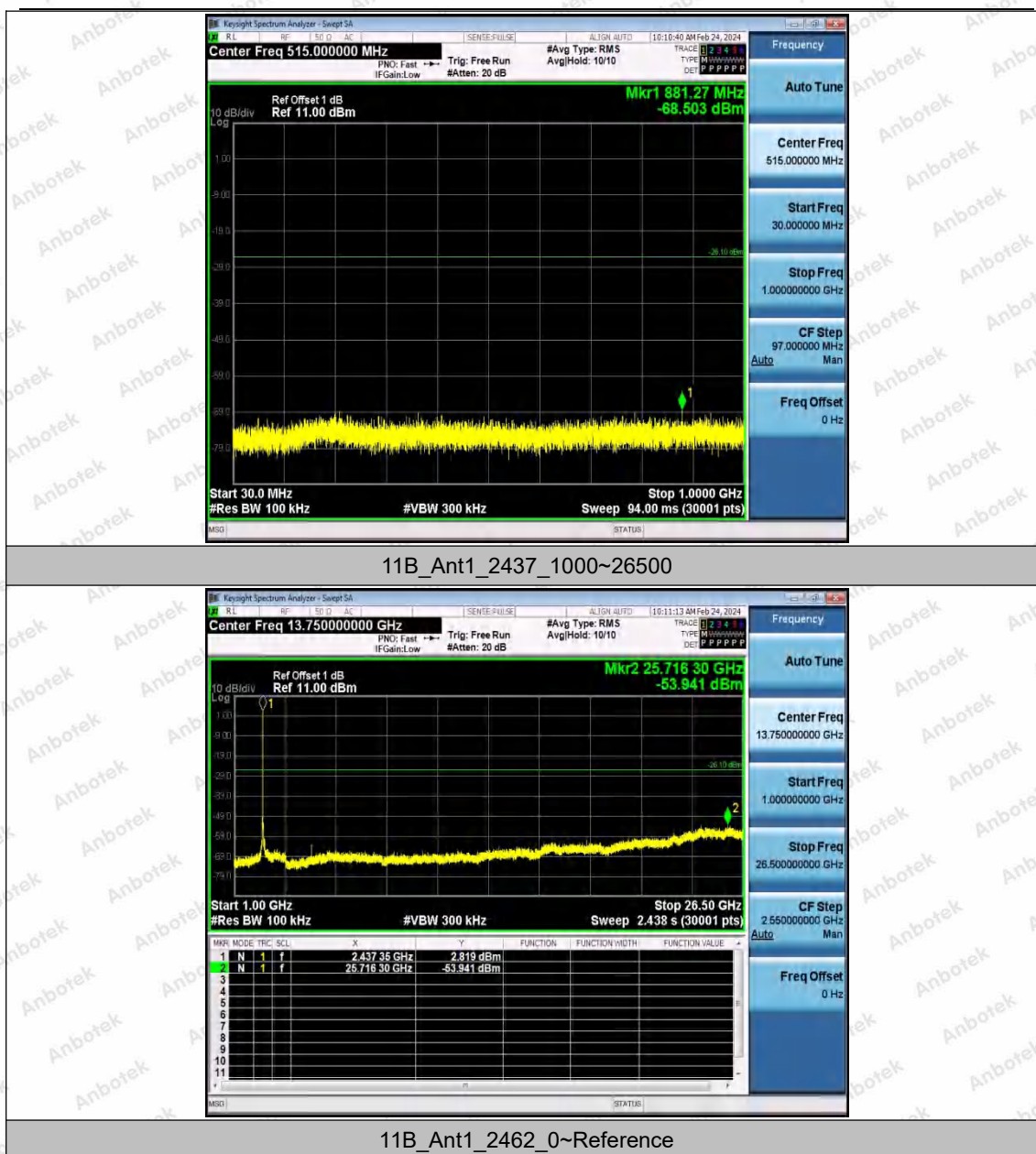
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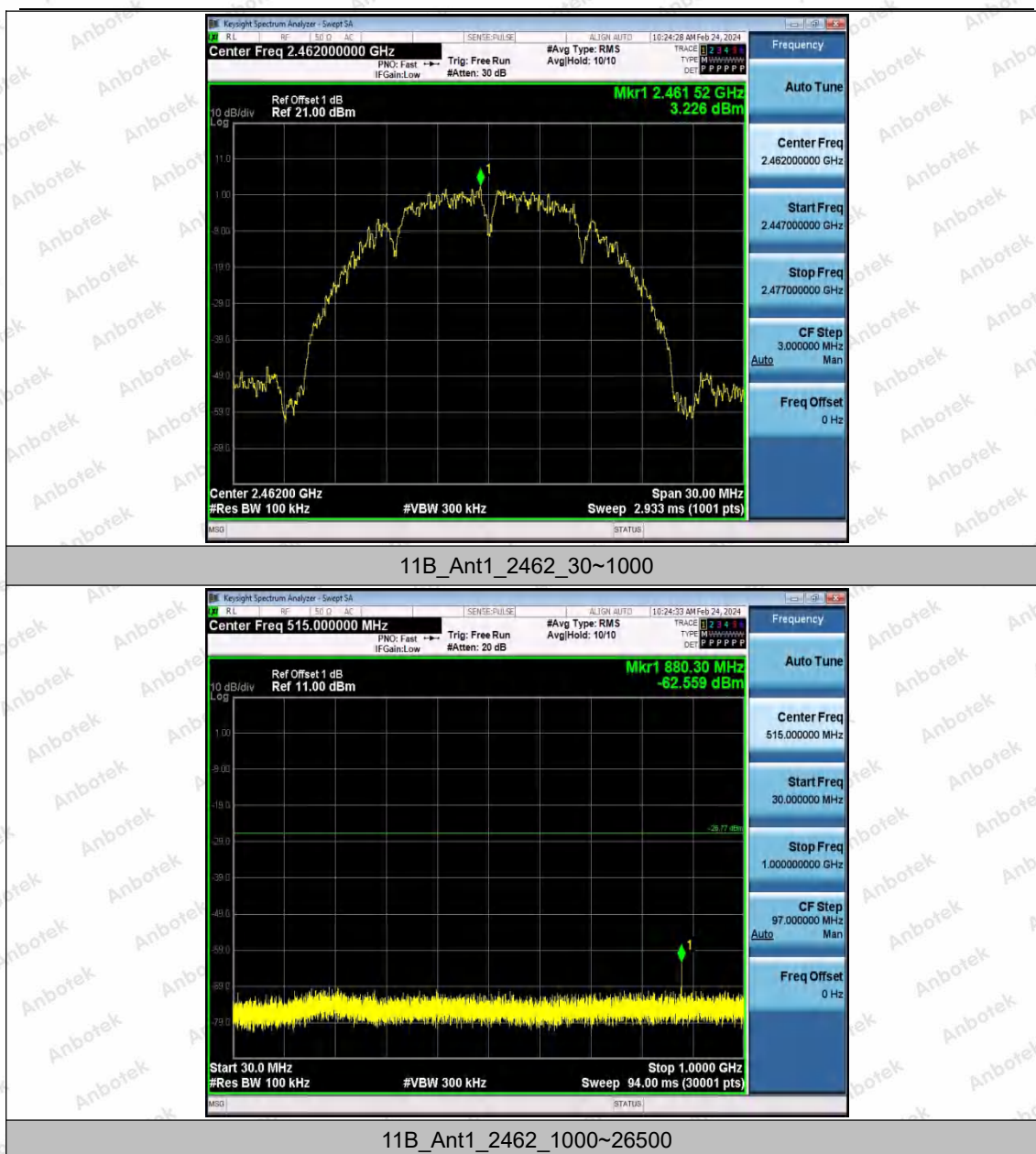
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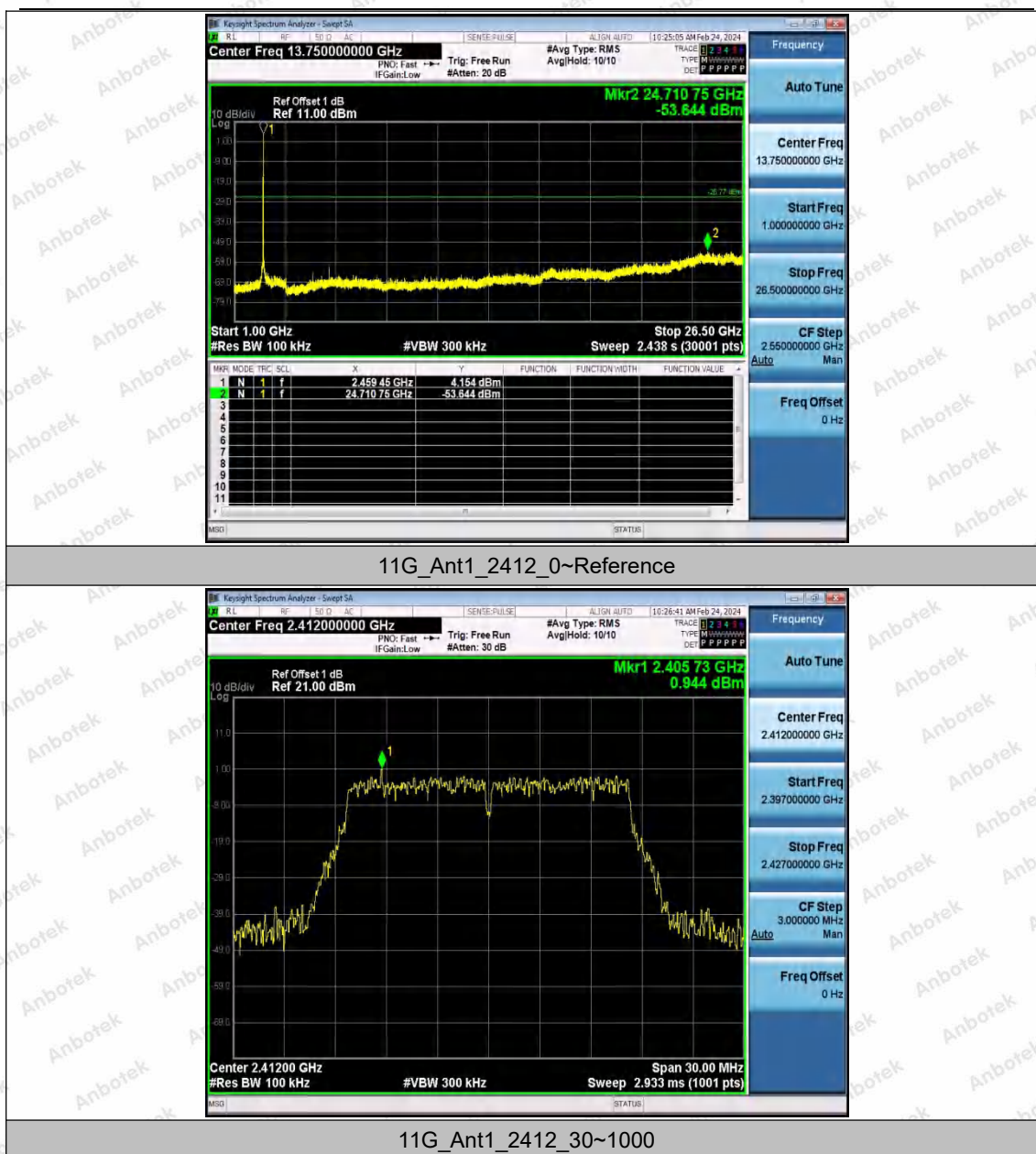
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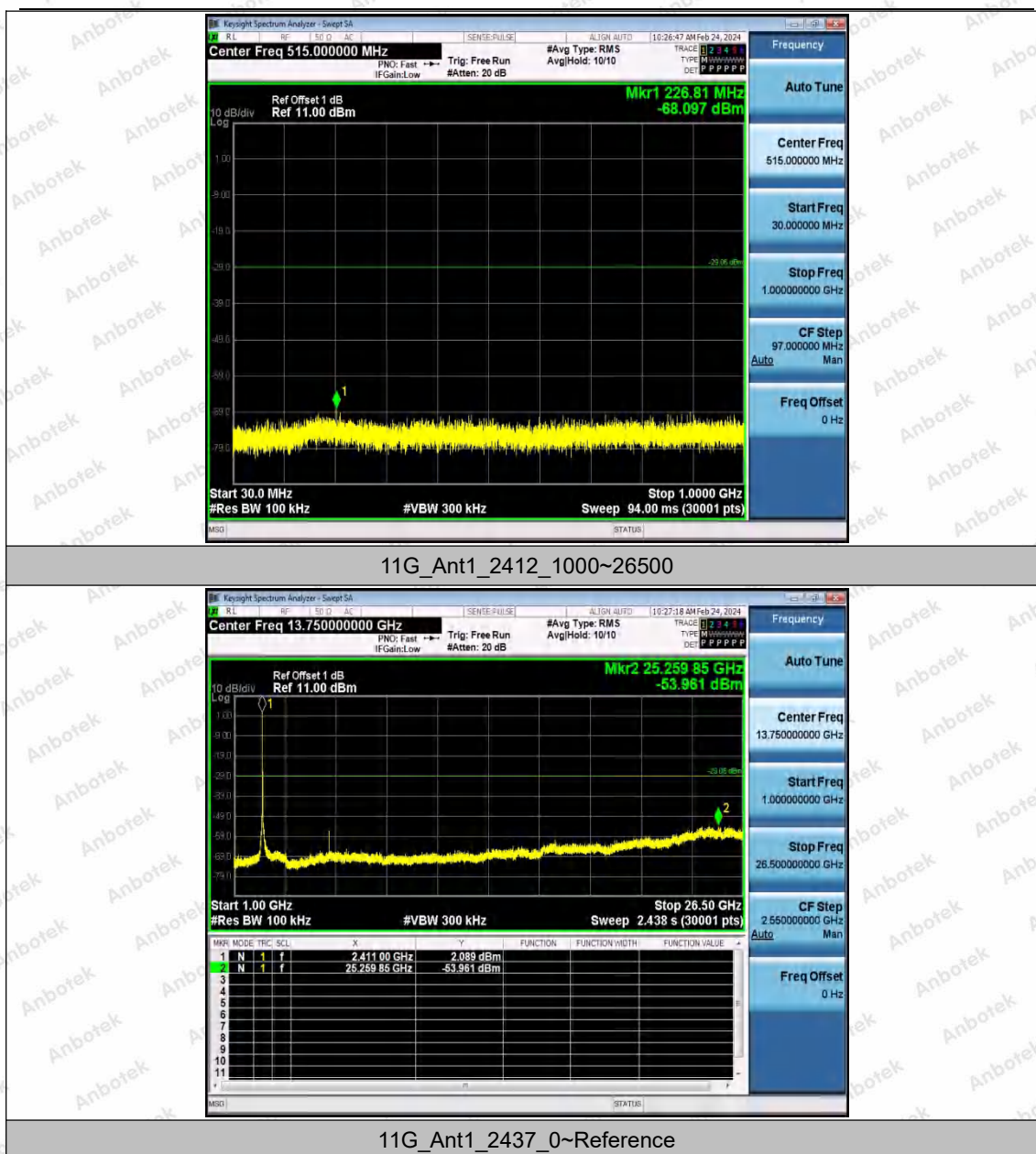
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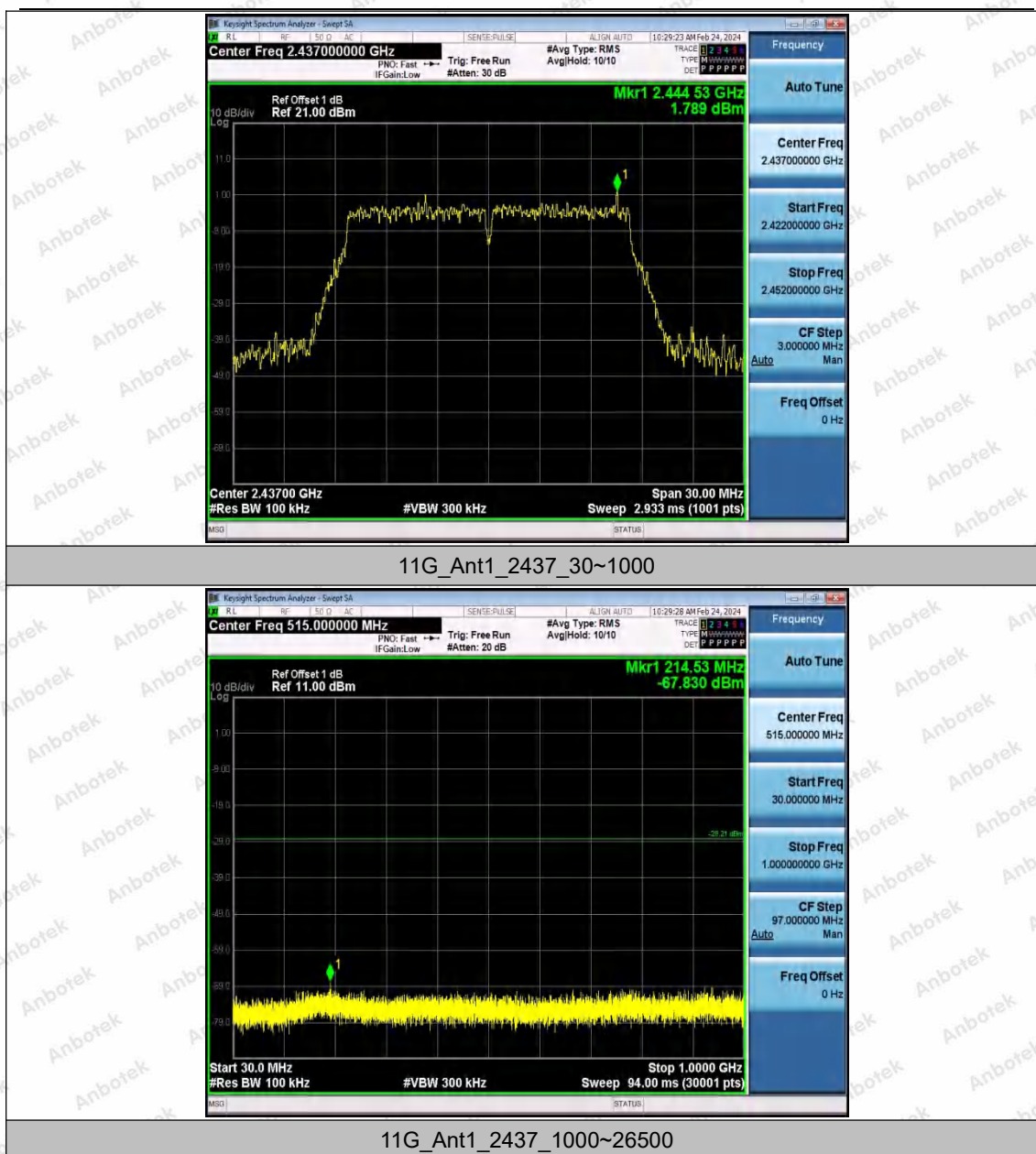
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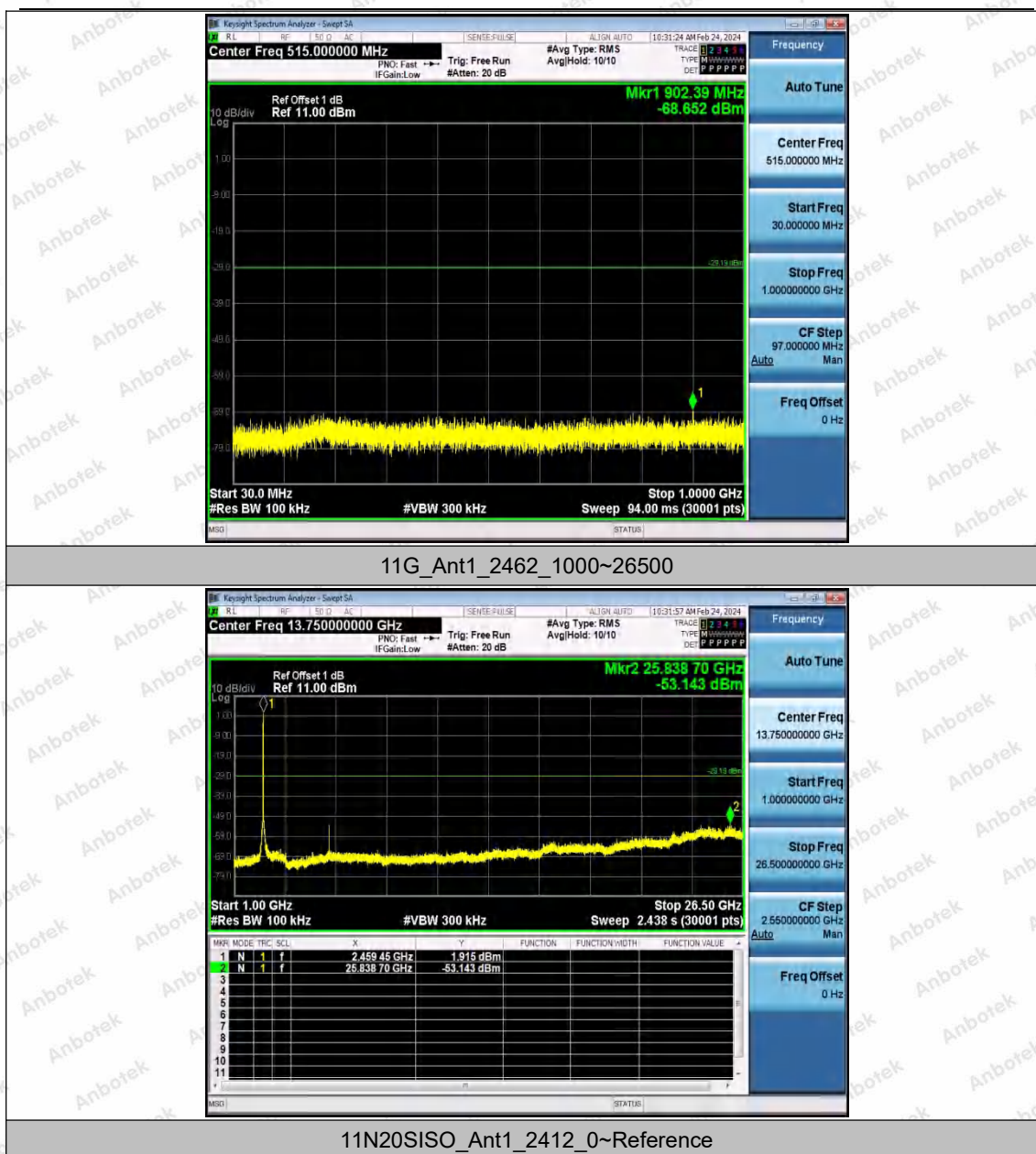
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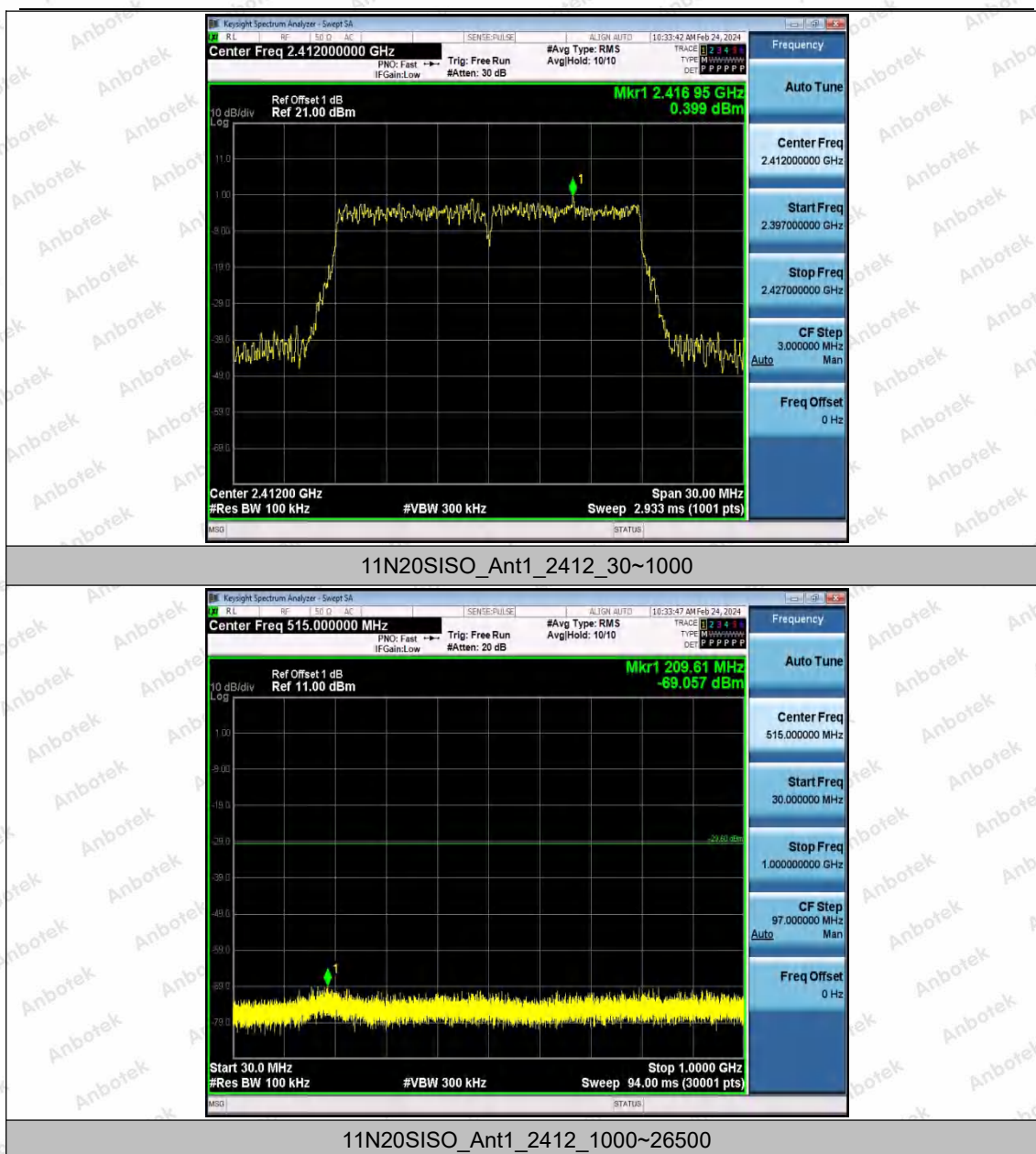
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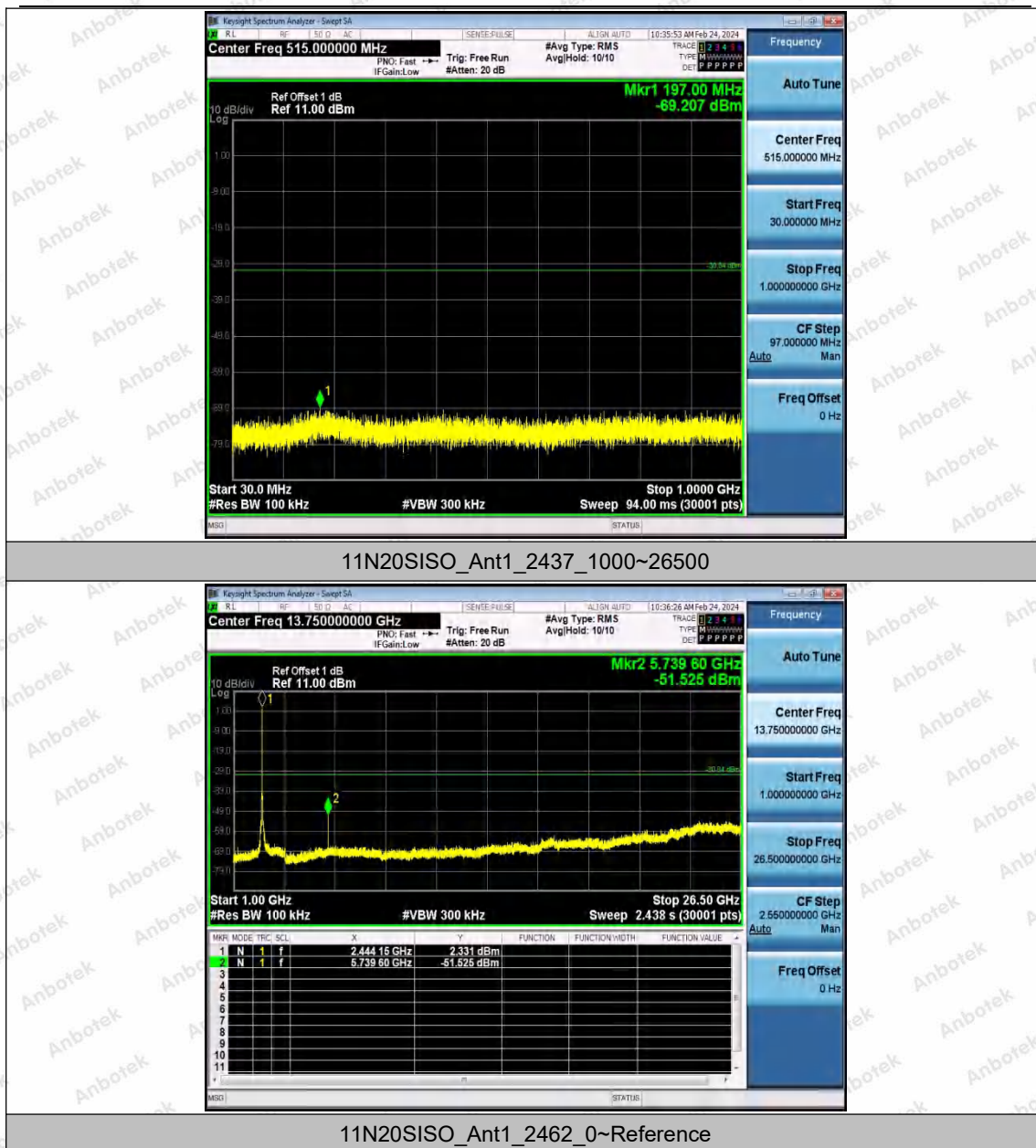
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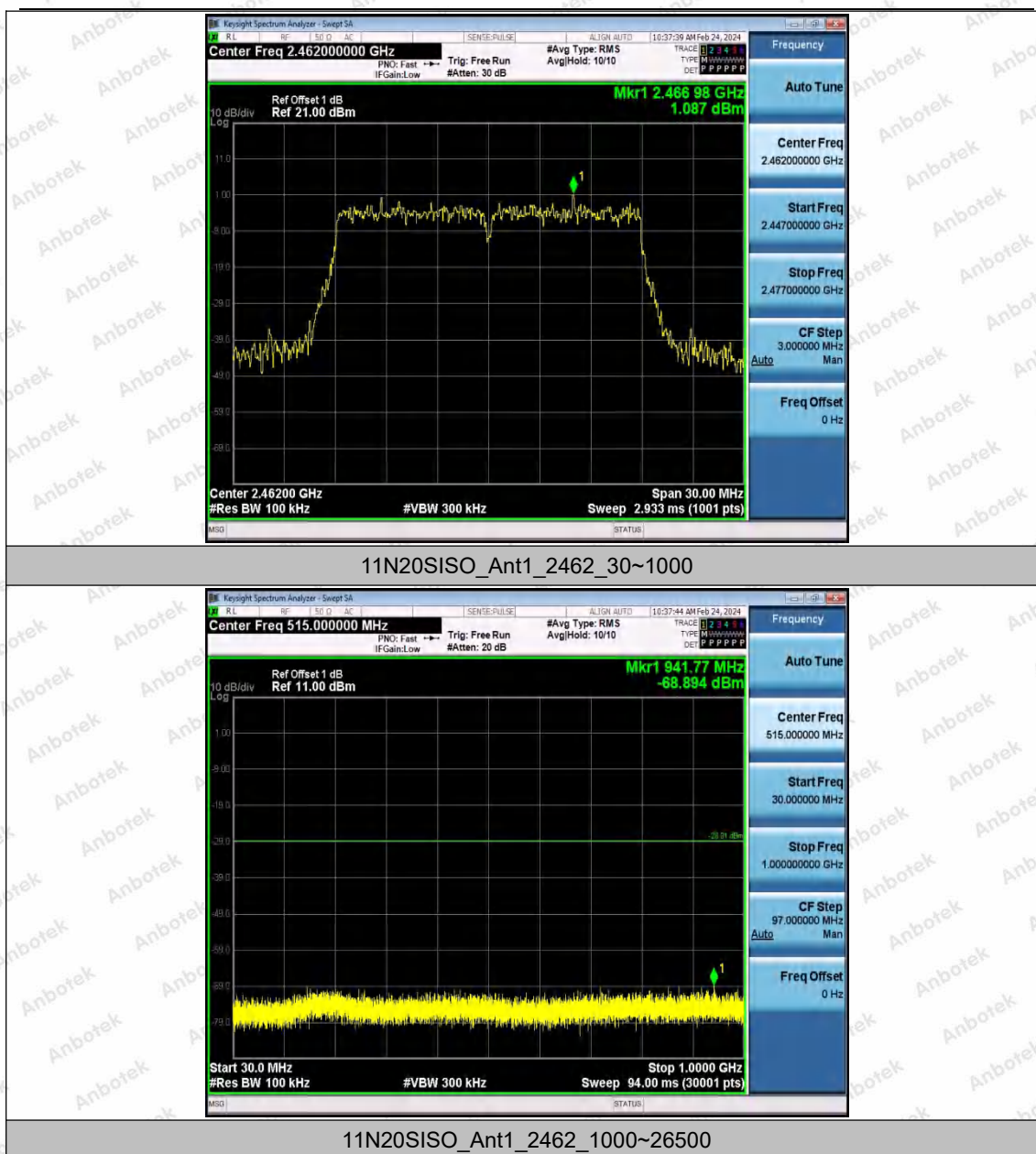
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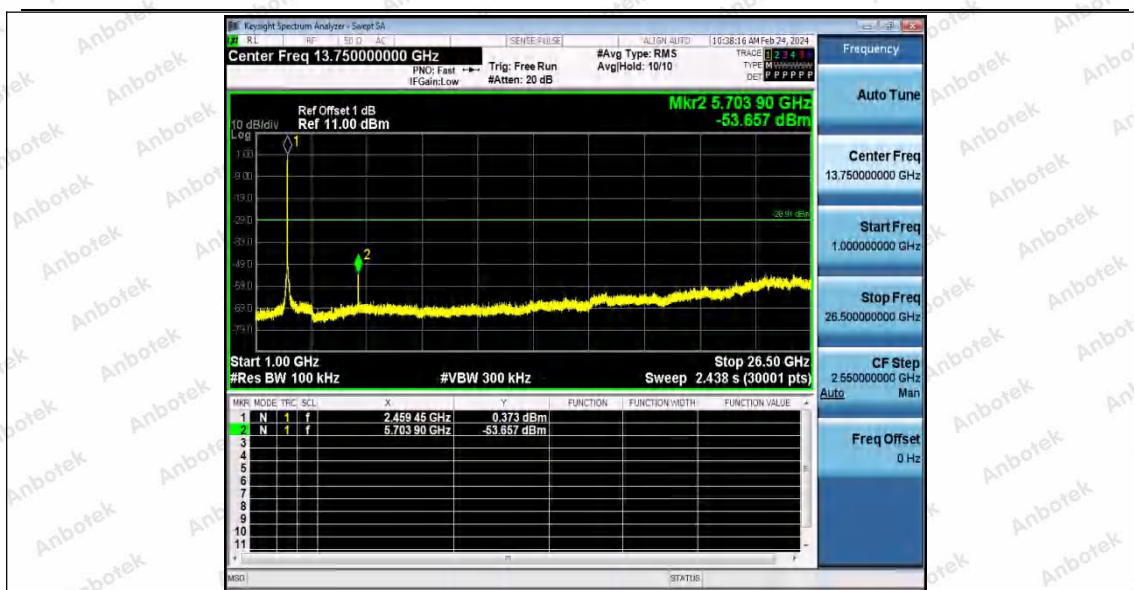
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.41	99.64	0.02
		2437	8.38	8.41	99.64	0.02
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.39	1.43	97.20	0.12
		2462	1.40	1.43	97.90	0.09
11N20SISO	Ant1	2412	1.29	1.33	96.99	0.13
		2437	1.30	1.34	97.01	0.13
		2462	1.29	1.33	96.99	0.13



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

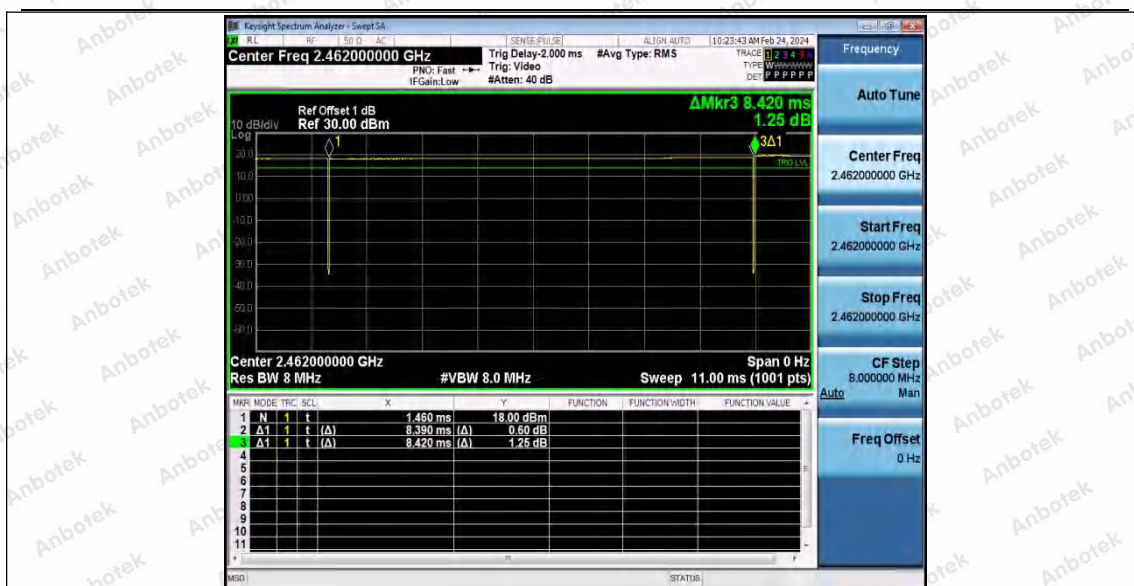
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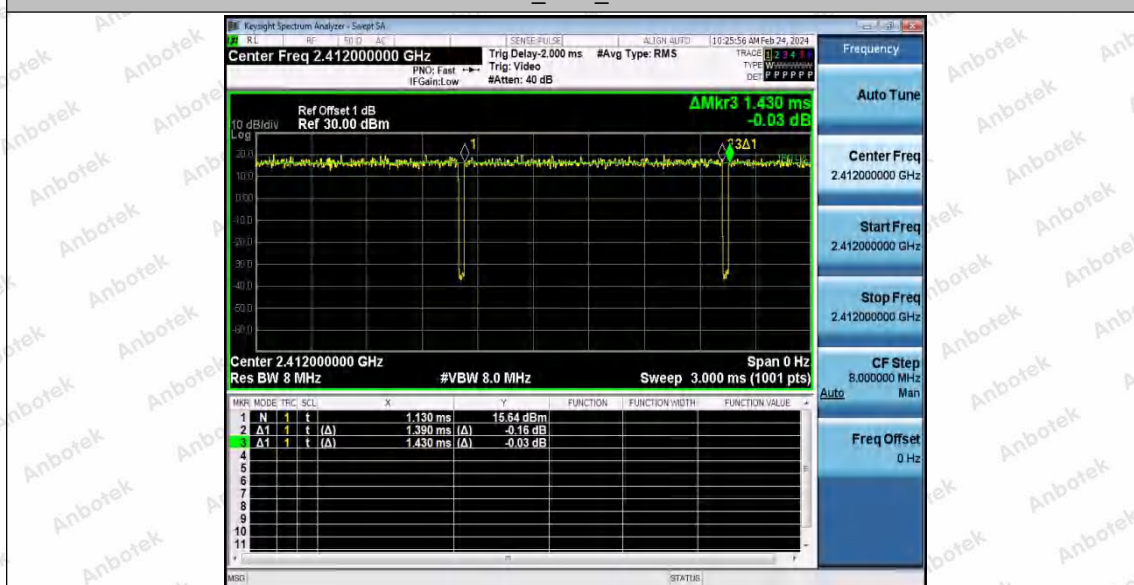


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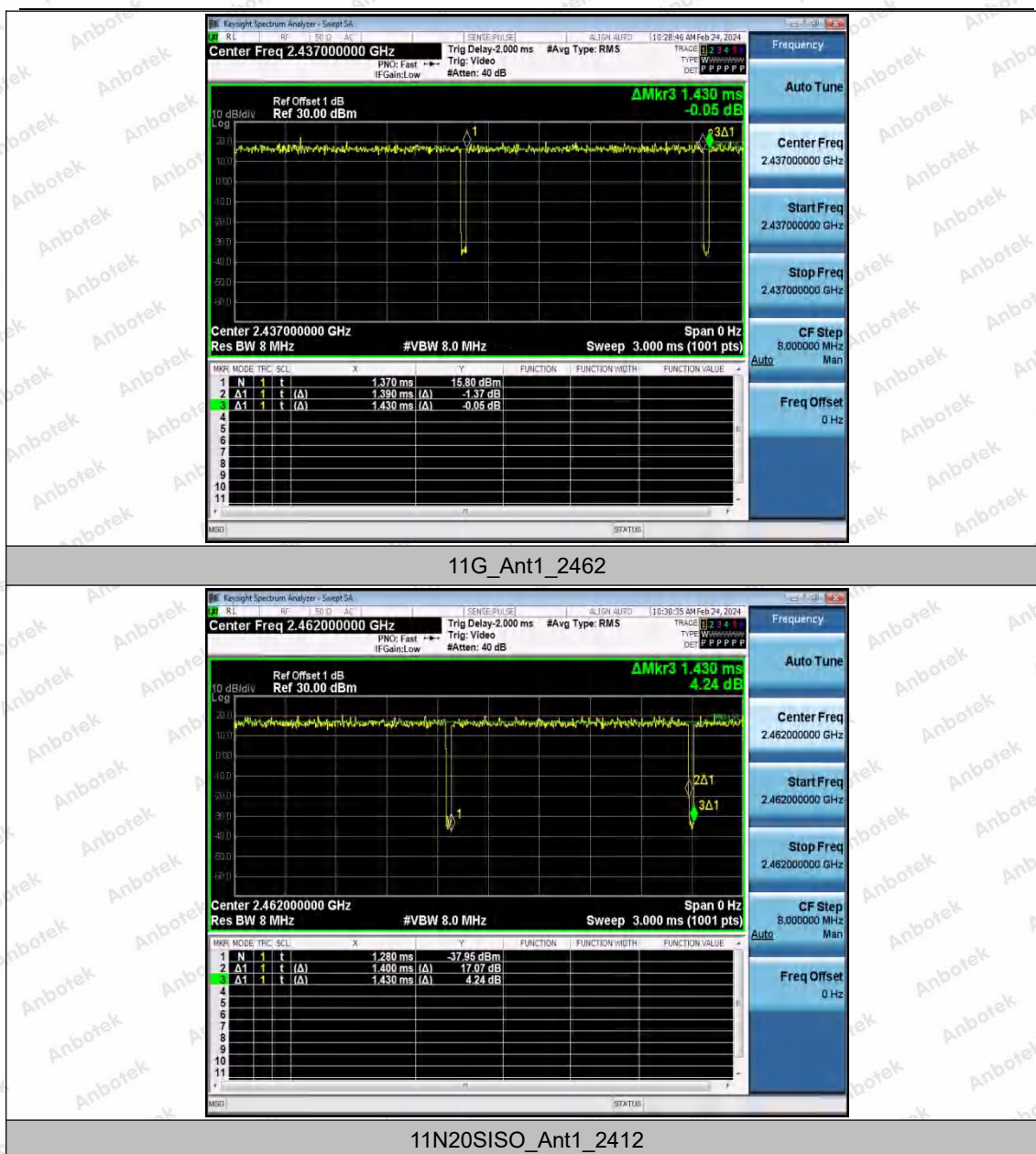


11G_Ant1_2412



11G_Ant1_2437





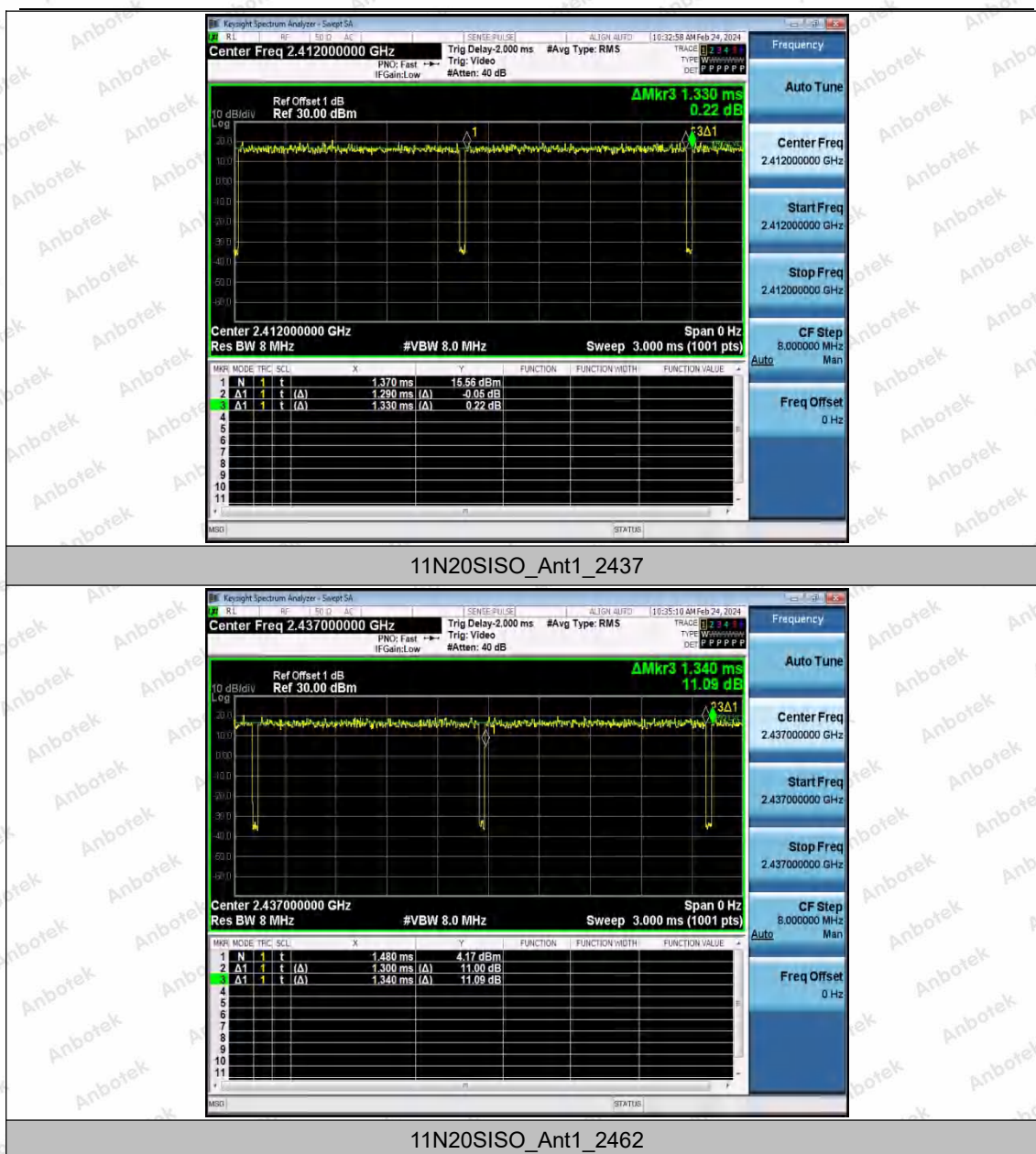
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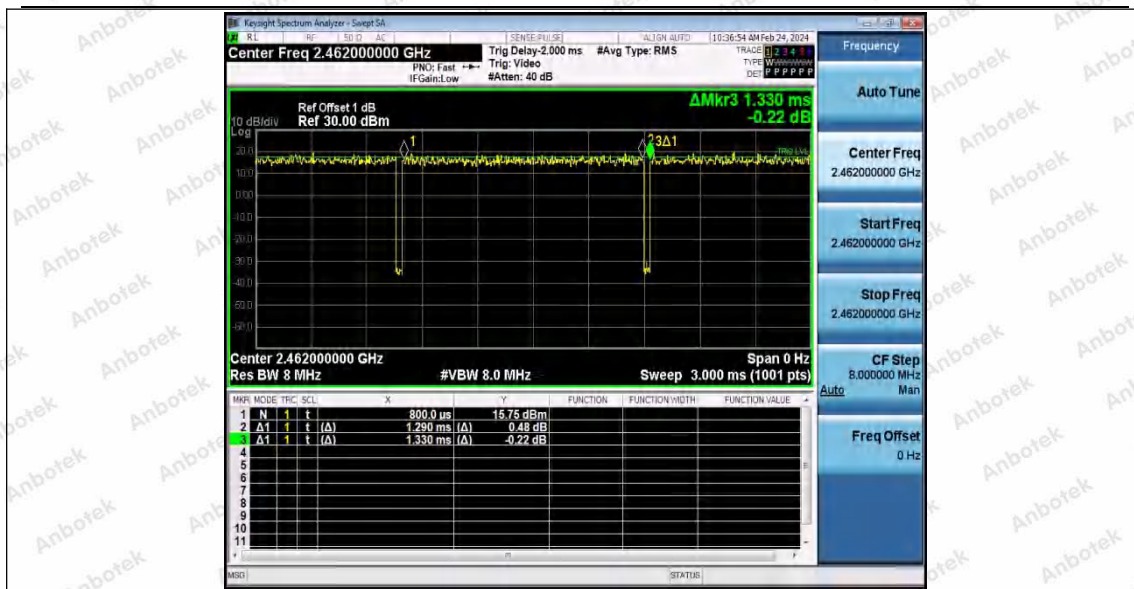
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