

Appendix Test Data

Report No:	18220WC30182401	Test Sample NO:	1-2-2
Start Test Date:	2023.09.21	Finish Test Date:	2023.09.28
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	26.4°C	Relative Humidity:	48.8%
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	9.800	2406.960	2416.760	≥0.5	PASS
		2437	10.040	2432.000	2442.040	≥0.5	PASS
		2462	10.040	2456.960	2467.000	≥0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	≥0.5	PASS
		2437	16.360	2428.800	2445.160	≥0.5	PASS
		2462	16.360	2453.840	2470.200	≥0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	≥0.5	PASS
		2437	17.000	2428.400	2445.400	≥0.5	PASS
		2462	17.280	2453.480	2470.760	≥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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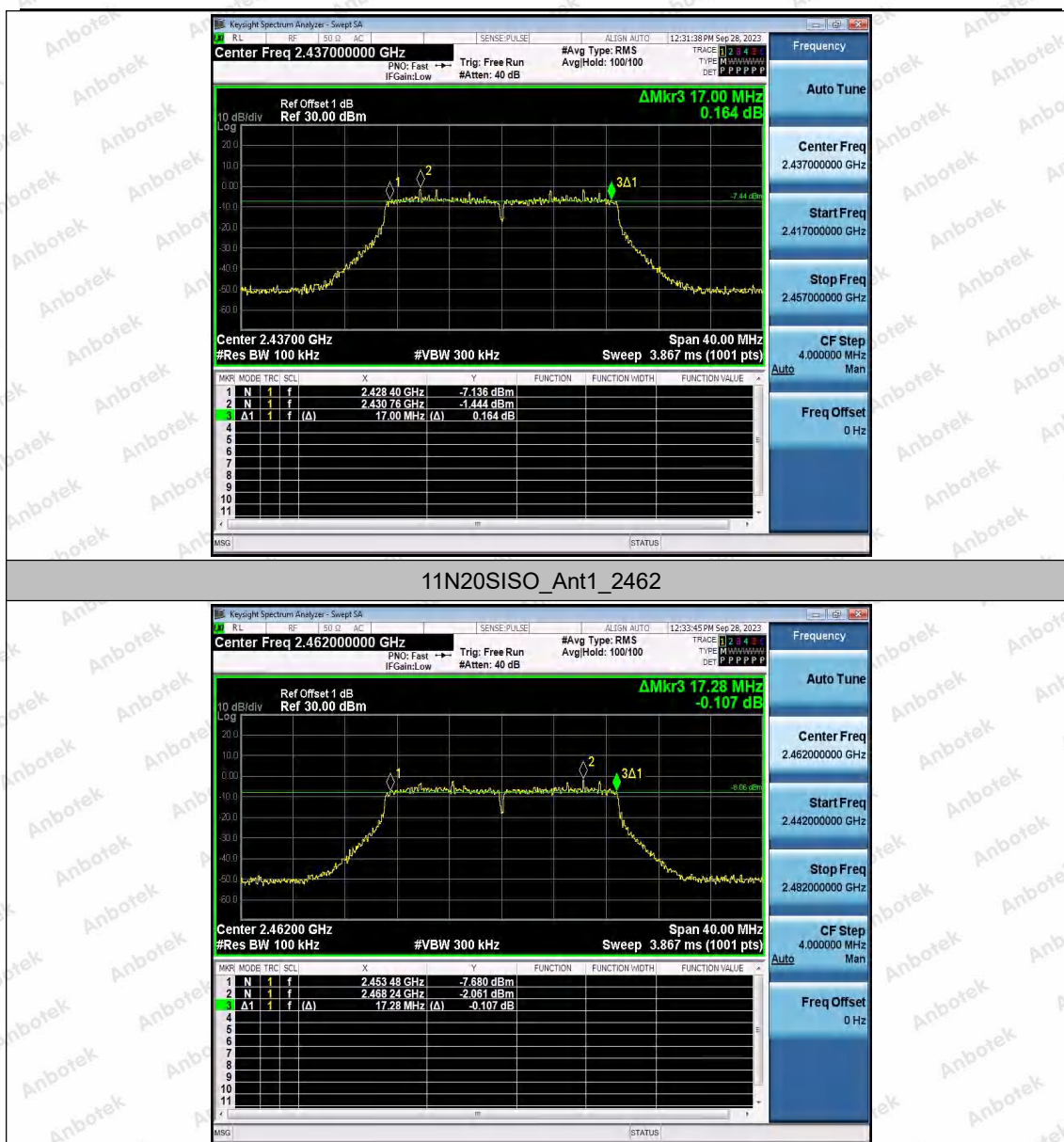
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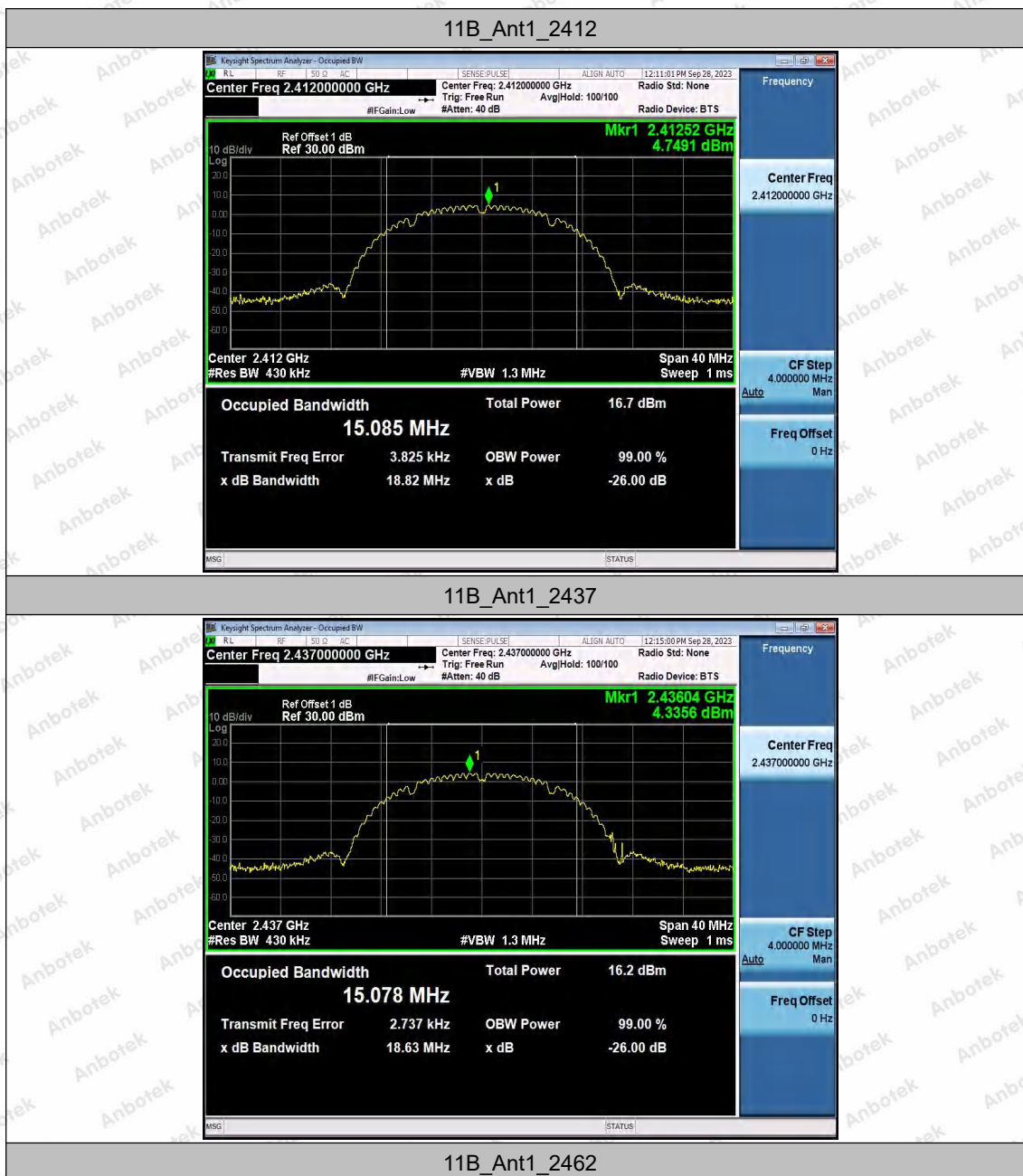
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.085	2404.4613	2419.5463	---	---
		2437	15.078	2429.4637	2444.5417	---	---
		2462	15.075	2454.4701	2469.5451	---	---
11G	Ant1	2412	17.029	2403.5330	2420.5620	---	---
		2437	17.028	2428.5157	2445.5437	---	---
		2462	17.001	2453.5216	2470.5226	---	---
11N20SISO	Ant1	2412	18.002	2402.9974	2420.9994	---	---
		2437	18.033	2427.9670	2446.0000	---	---
		2462	18.011	2453.0032	2471.0142	---	---



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	16.78	≤30.00
		2437	16.33	≤30.00
		2462	16.18	≤30.00
11G	Ant1	2412	16.03	≤30.00
		2437	15.80	≤30.00
		2462	15.63	≤30.00
11N20SISO	Ant1	2412	16.60	≤30.00
		2437	16.21	≤30.00
		2462	16.04	≤30.00



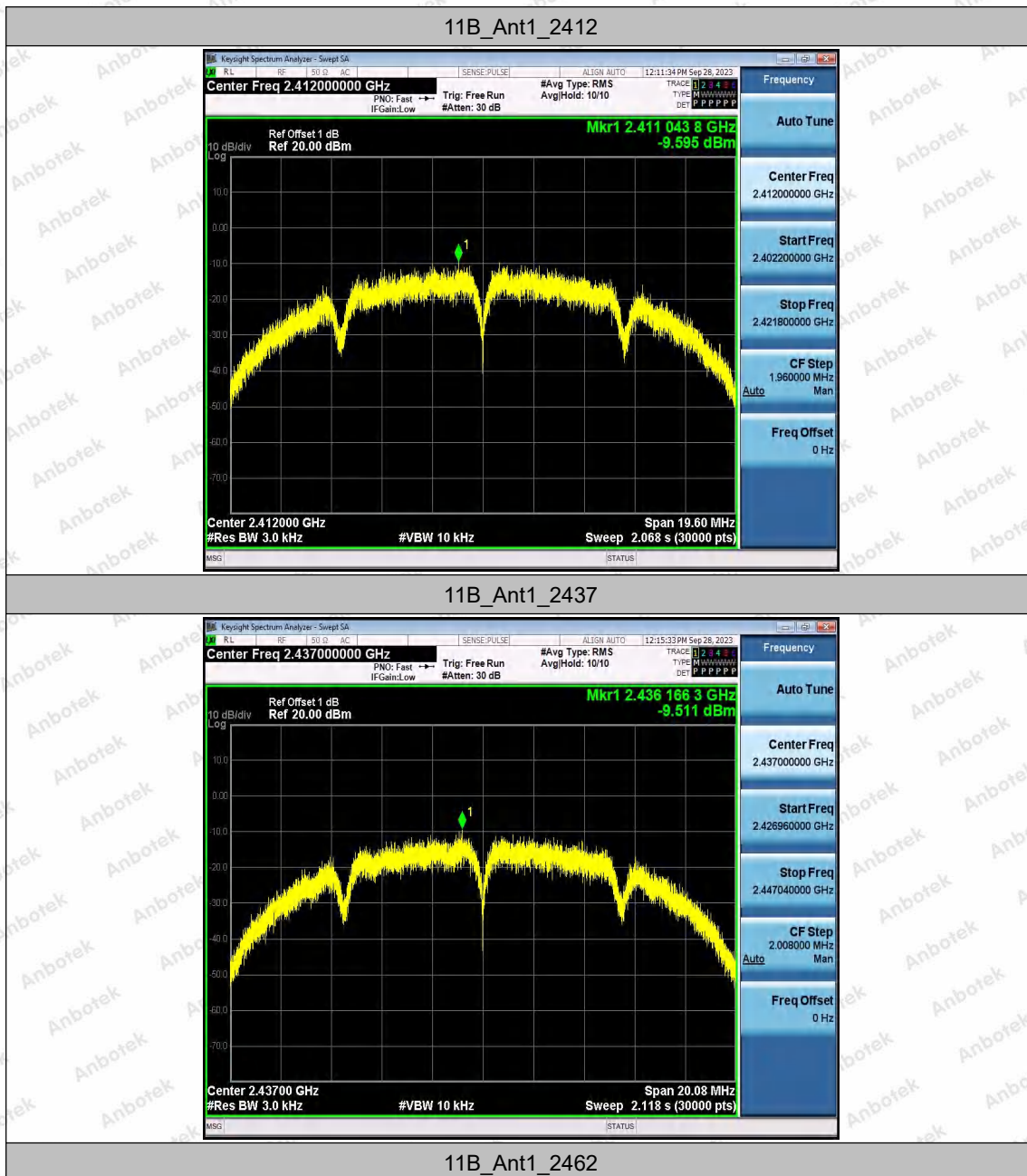
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.60	≤8.00	PASS
		2437	-9.51	≤8.00	PASS
		2462	-9.57	≤8.00	PASS
11G	Ant1	2412	-16.71	≤8.00	PASS
		2437	-15.98	≤8.00	PASS
		2462	-16.79	≤8.00	PASS
11N20SISO	Ant1	2412	-15.74	≤8.00	PASS
		2437	-16.32	≤8.00	PASS
		2462	-16.30	≤8.00	PASS



Test Graphs



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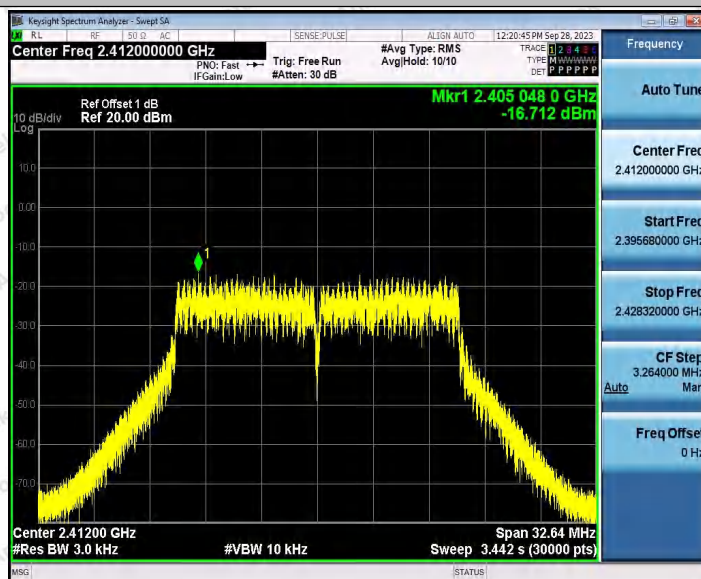


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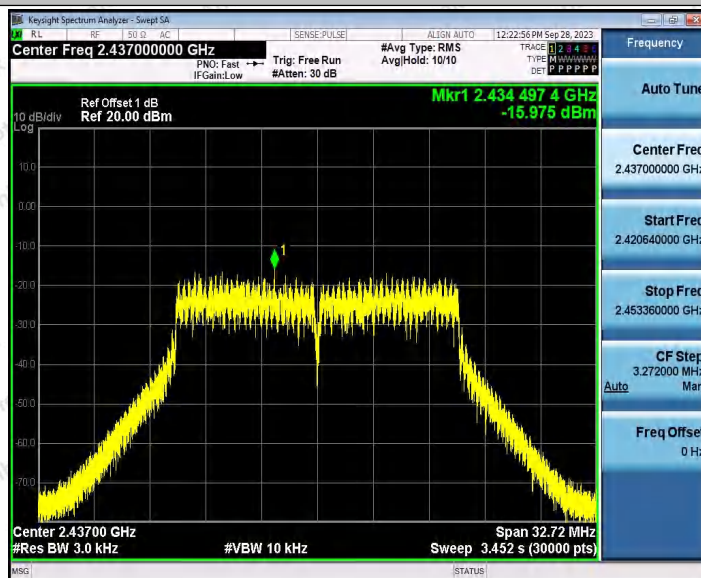




11G_Ant1_2412



11G_Ant1_2437

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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

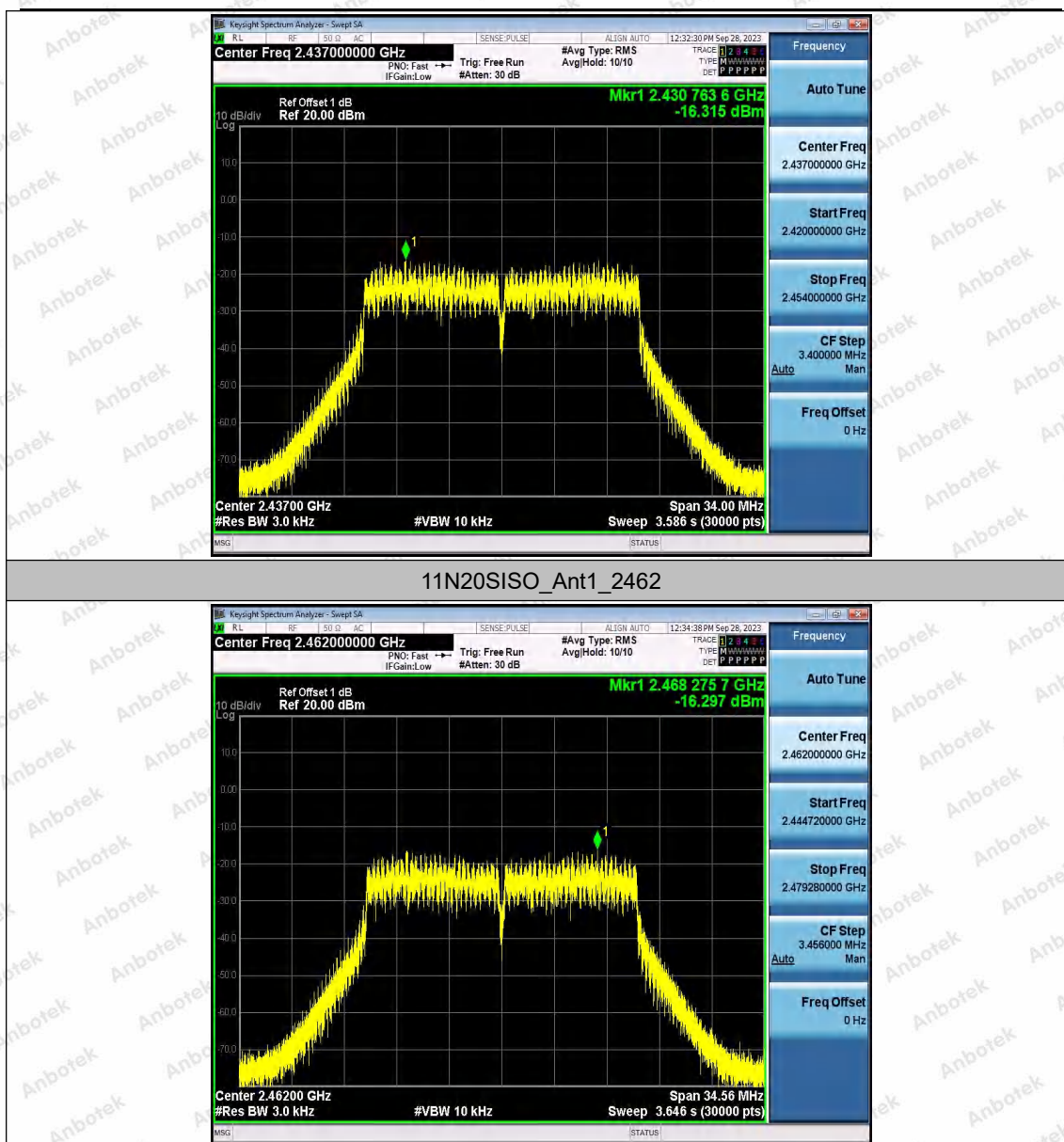
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Appendix E: Band edge measurements

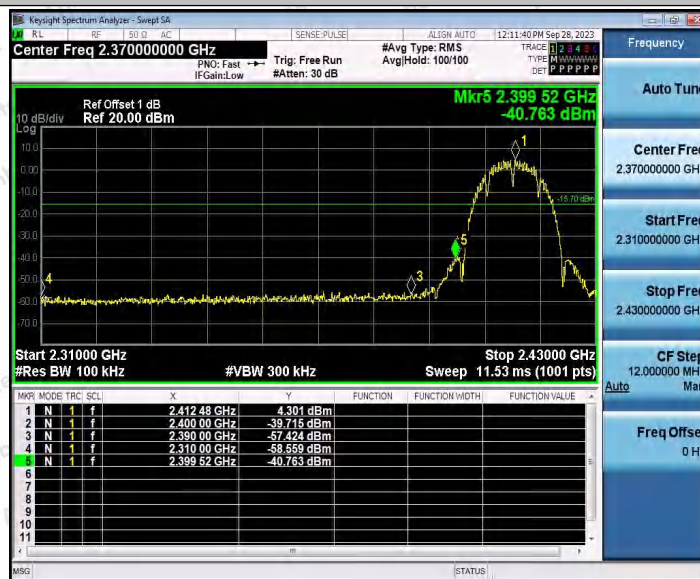
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.30	-40.76	≤-15.7	PASS
		High	2462	3.85	-55.64	≤-16.15	PASS
11G	Ant1	Low	2412	-2.54	-40.48	≤-22.54	PASS
		High	2462	-2.41	-54.29	≤-22.41	PASS
11N20SISO	Ant1	Low	2412	-1.31	-40.08	≤-21.31	PASS
		High	2462	-2.24	-55.84	≤-22.24	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

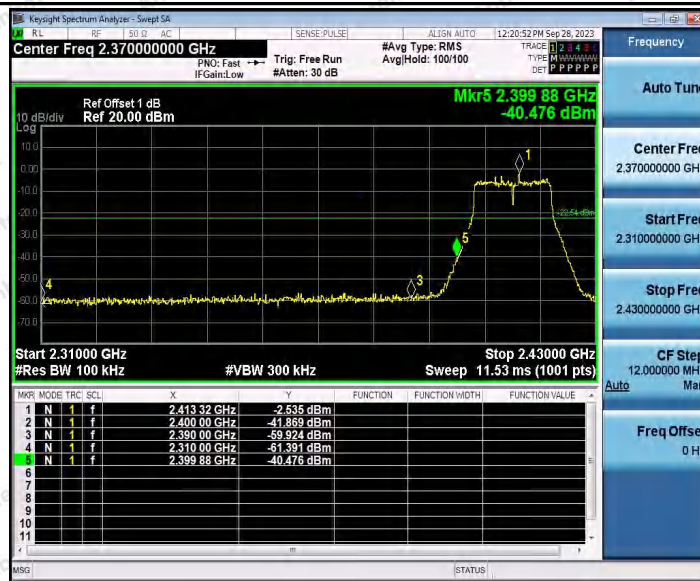
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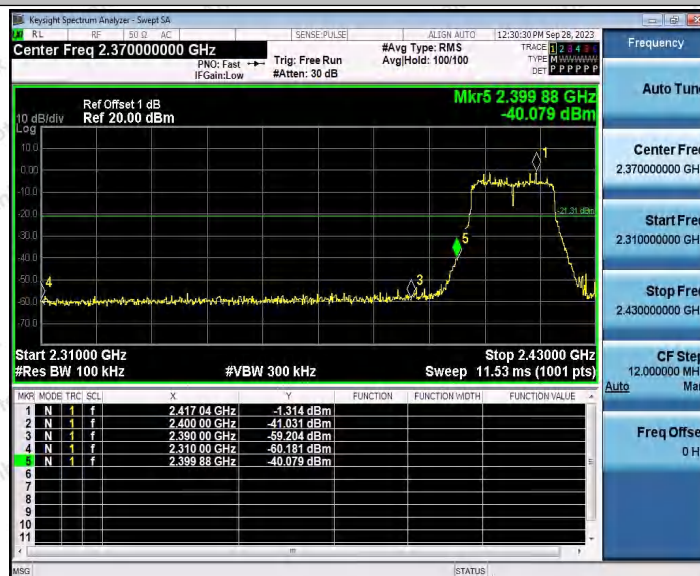




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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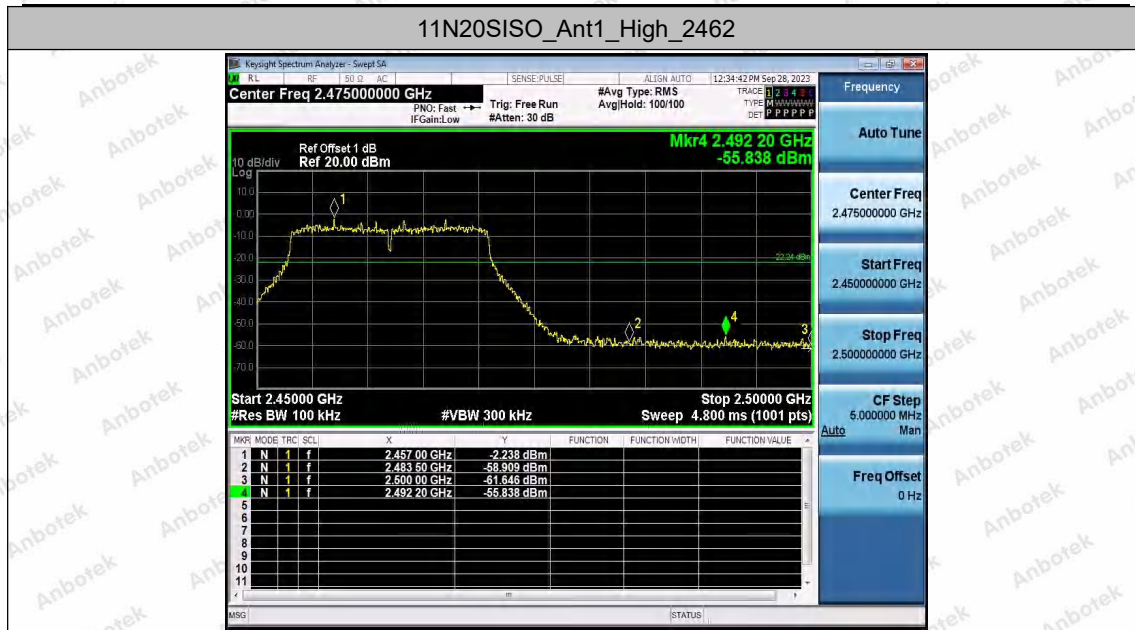


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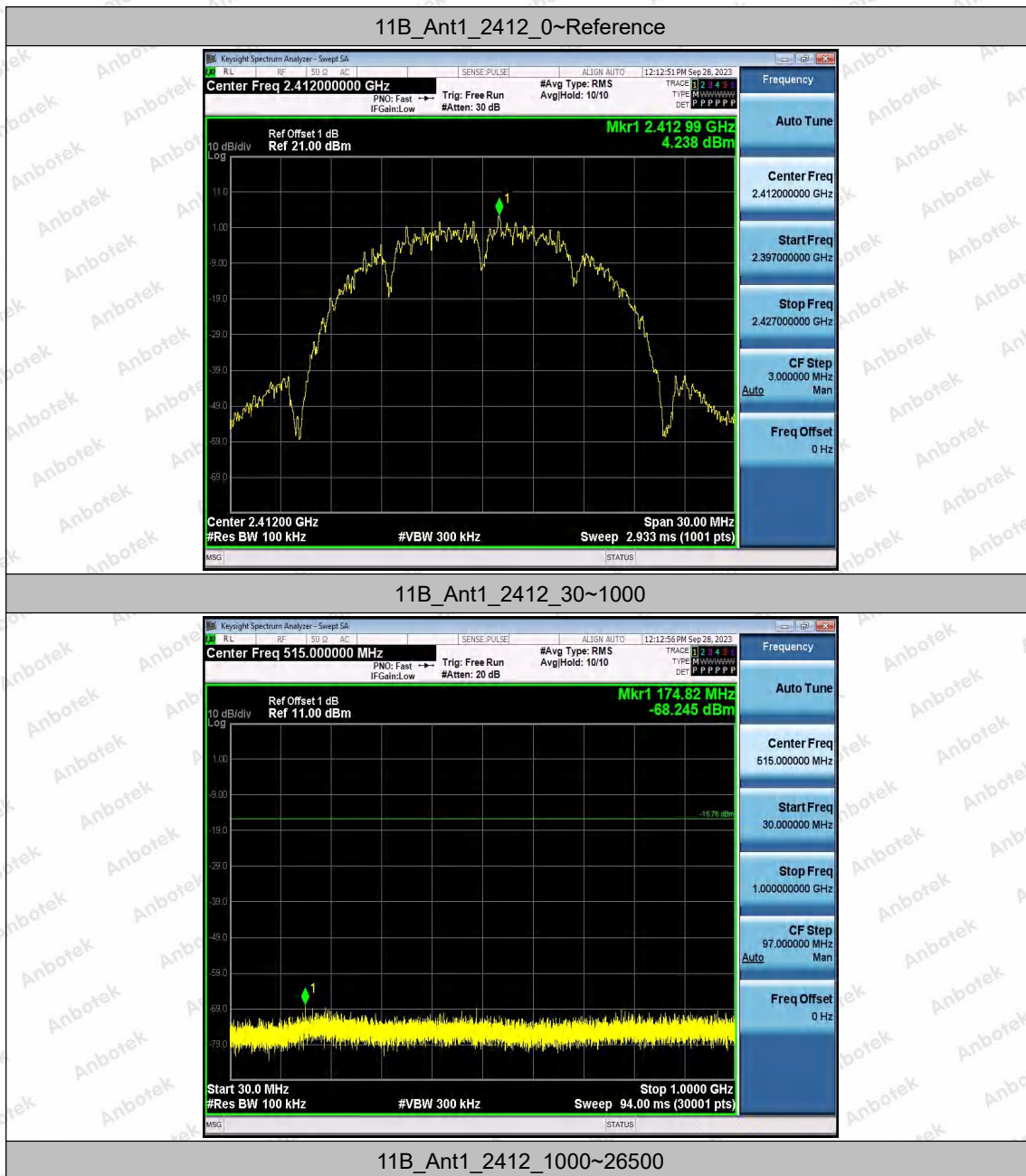
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.24	4.24	---	PASS
			30~1000	4.24	-68.25	≤-15.76	PASS
			1000~26500	4.24	-47.75	≤-15.76	PASS
		2437	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-68.3	≤-17.41	PASS
			1000~26500	2.59	-53.69	≤-17.41	PASS
		2462	Reference	3.65	3.65	---	PASS
			30~1000	3.65	-68.96	≤-16.35	PASS
			1000~26500	3.65	-52.56	≤-16.35	PASS
11G	Ant1	2412	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-68.74	≤-24.74	PASS
			1000~26500	-4.74	-43.29	≤-24.74	PASS
		2437	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-69.26	≤-25.22	PASS
			1000~26500	-5.22	-53.07	≤-25.22	PASS
		2462	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-69.54	≤-26.11	PASS
			1000~26500	-6.11	-53.66	≤-26.11	PASS
11N20SISO	Ant1	2412	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-68.37	≤-25.06	PASS
			1000~26500	-5.06	-42.18	≤-25.06	PASS
		2437	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-69.13	≤-25.6	PASS
			1000~26500	-5.60	-53.33	≤-25.6	PASS
		2462	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-68.81	≤-22.8	PASS
			1000~26500	-2.80	-53.17	≤-22.8	PASS



Test Graphs



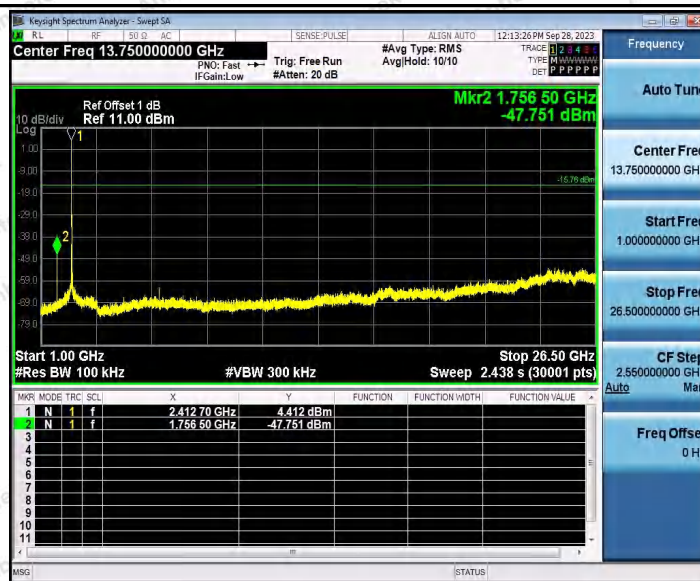
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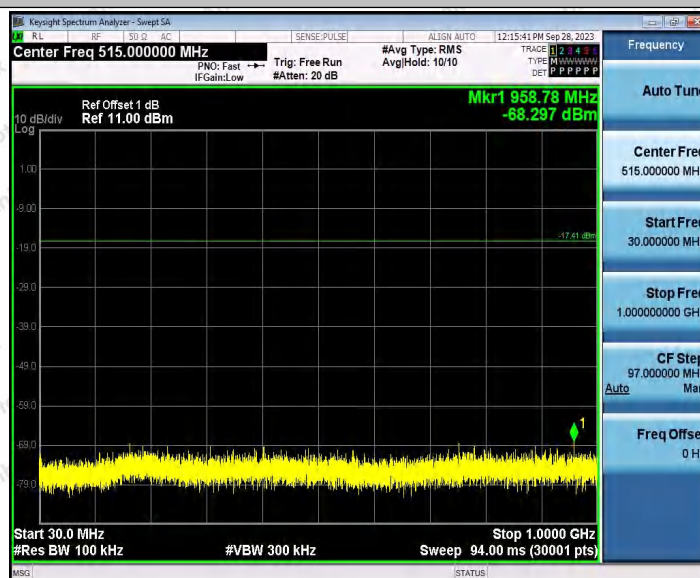




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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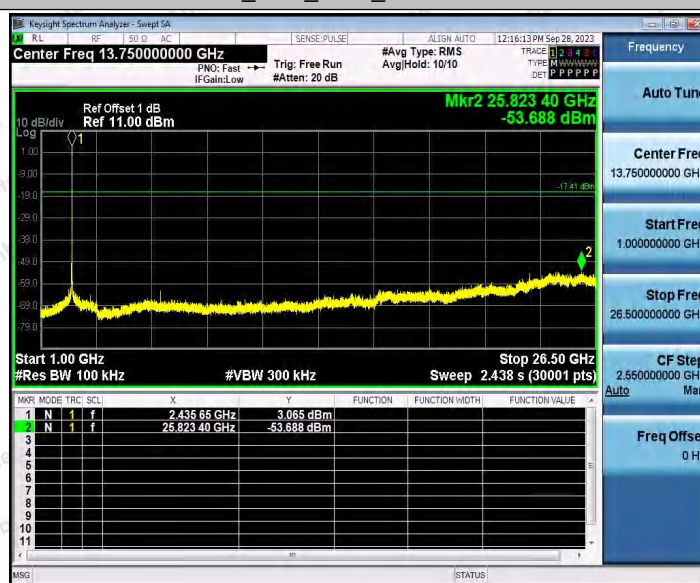
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

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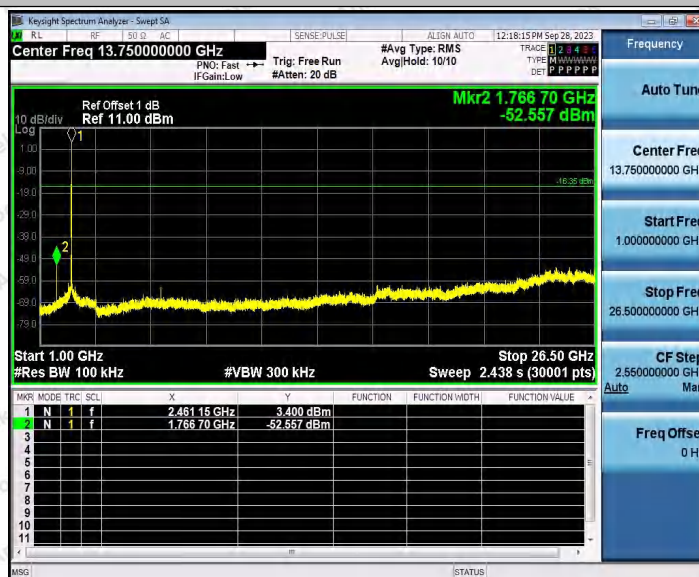


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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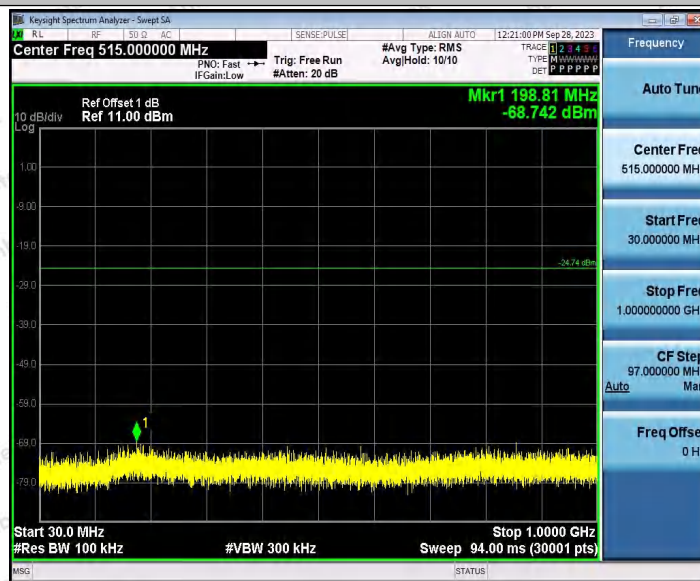
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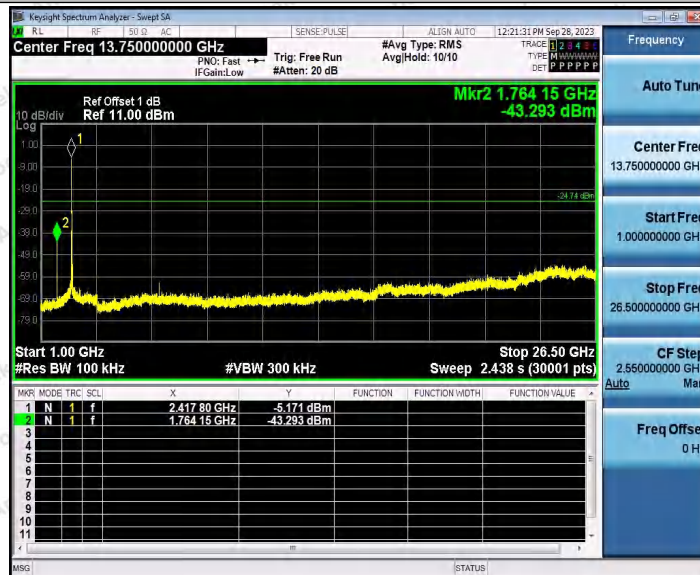
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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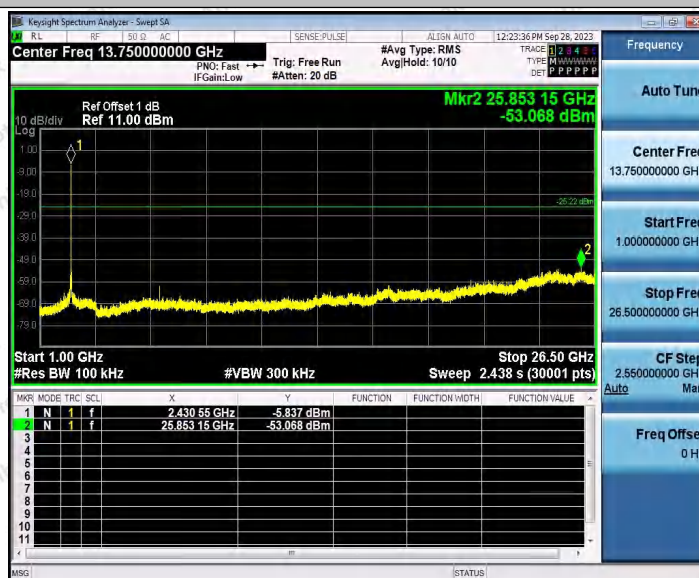




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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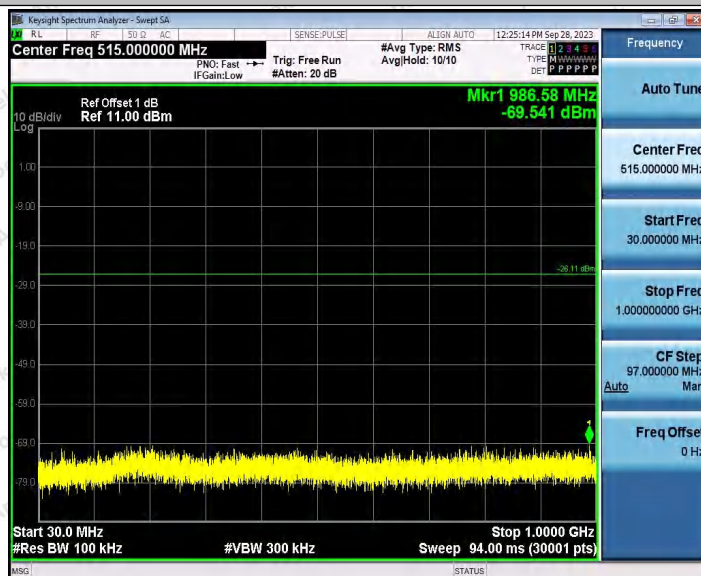
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

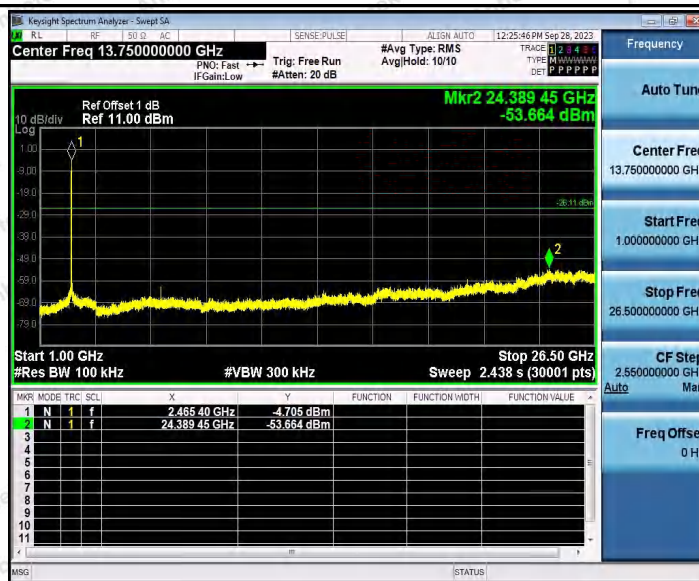
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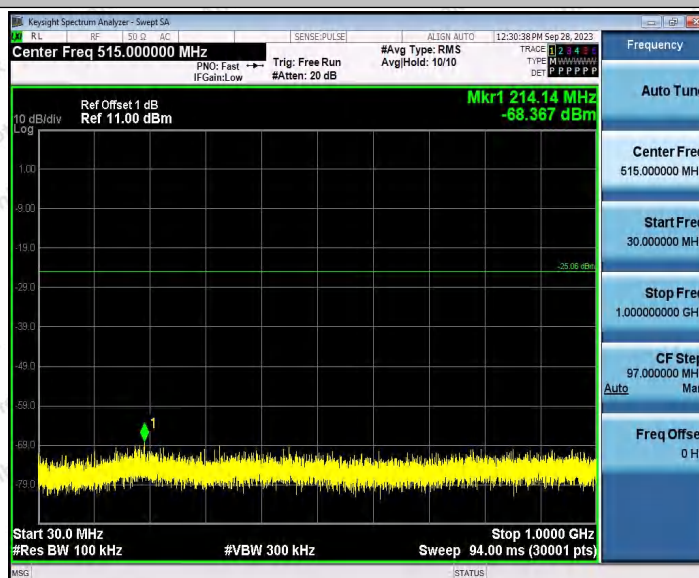




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11N20SISO_Ant1_2412_30~1000



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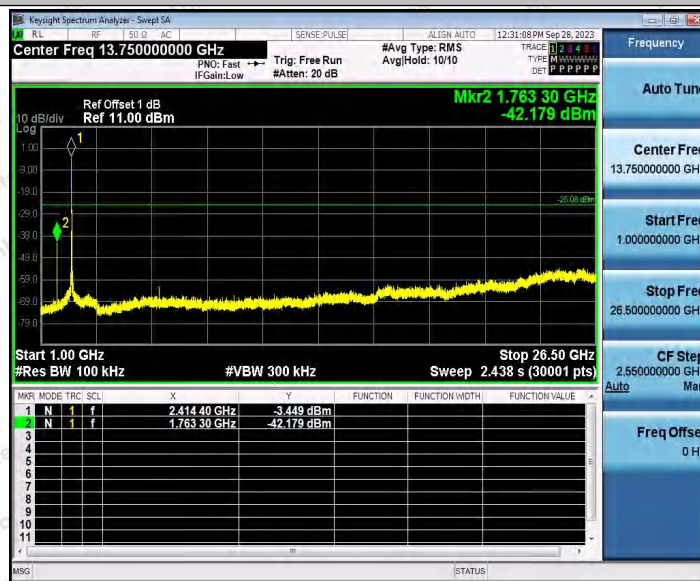
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

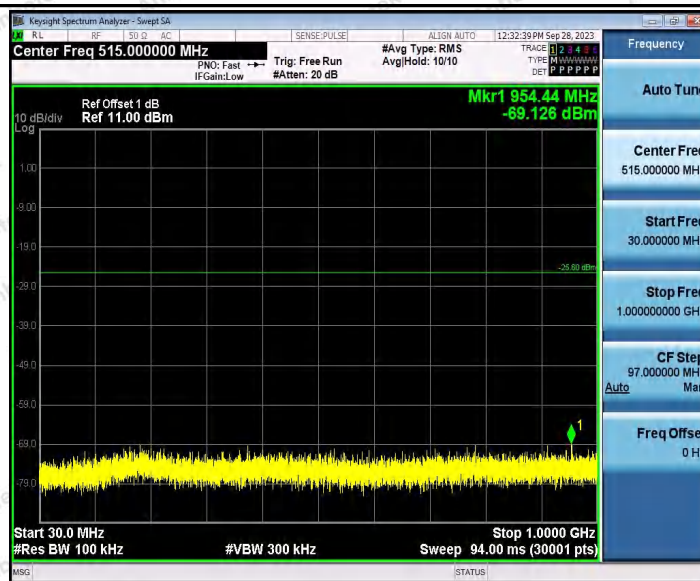
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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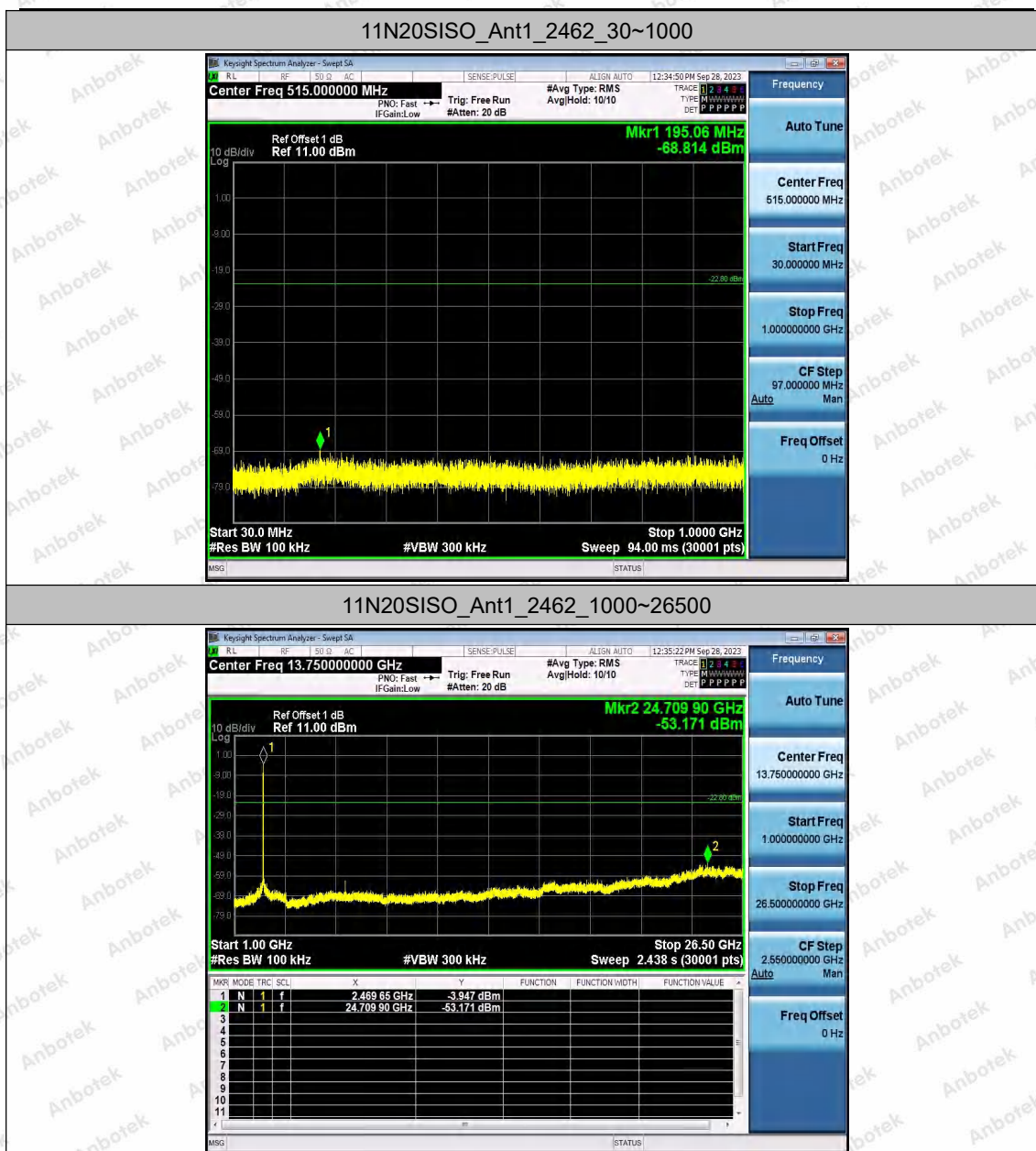


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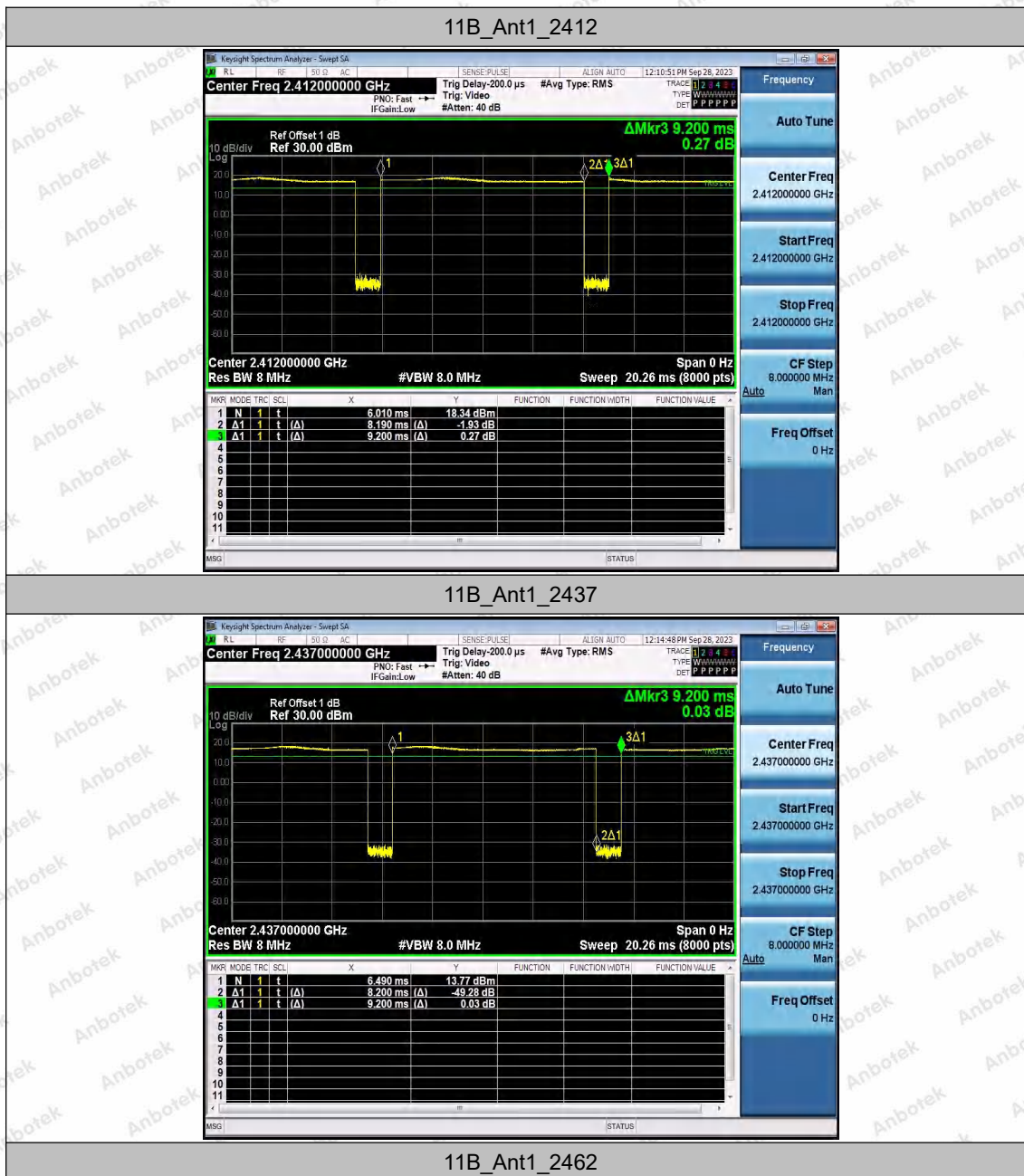
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.19	9.20	89.02	0.51
		2437	8.20	9.20	89.13	0.50
		2462	8.19	9.20	89.02	0.51
11G	Ant1	2412	1.36	2.36	57.63	2.39
		2437	1.36	2.36	57.63	2.39
		2462	1.36	2.36	57.63	2.39
11N20SISO	Ant1	2412	1.27	2.28	55.70	2.54
		2437	1.27	2.28	55.70	2.54
		2462	1.27	2.28	55.70	2.54



Test Graphs



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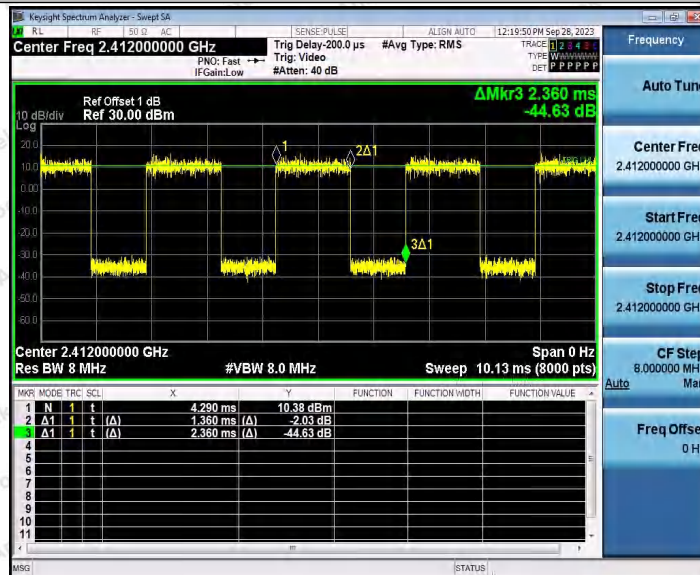


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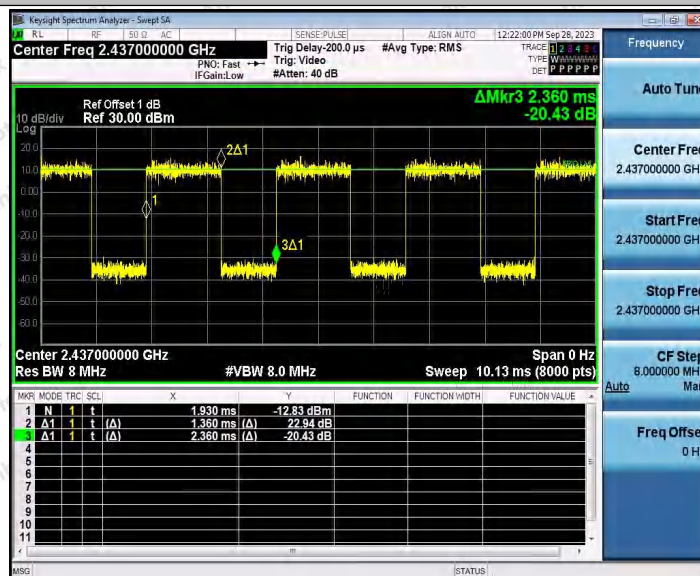




11G_Ant1_2412



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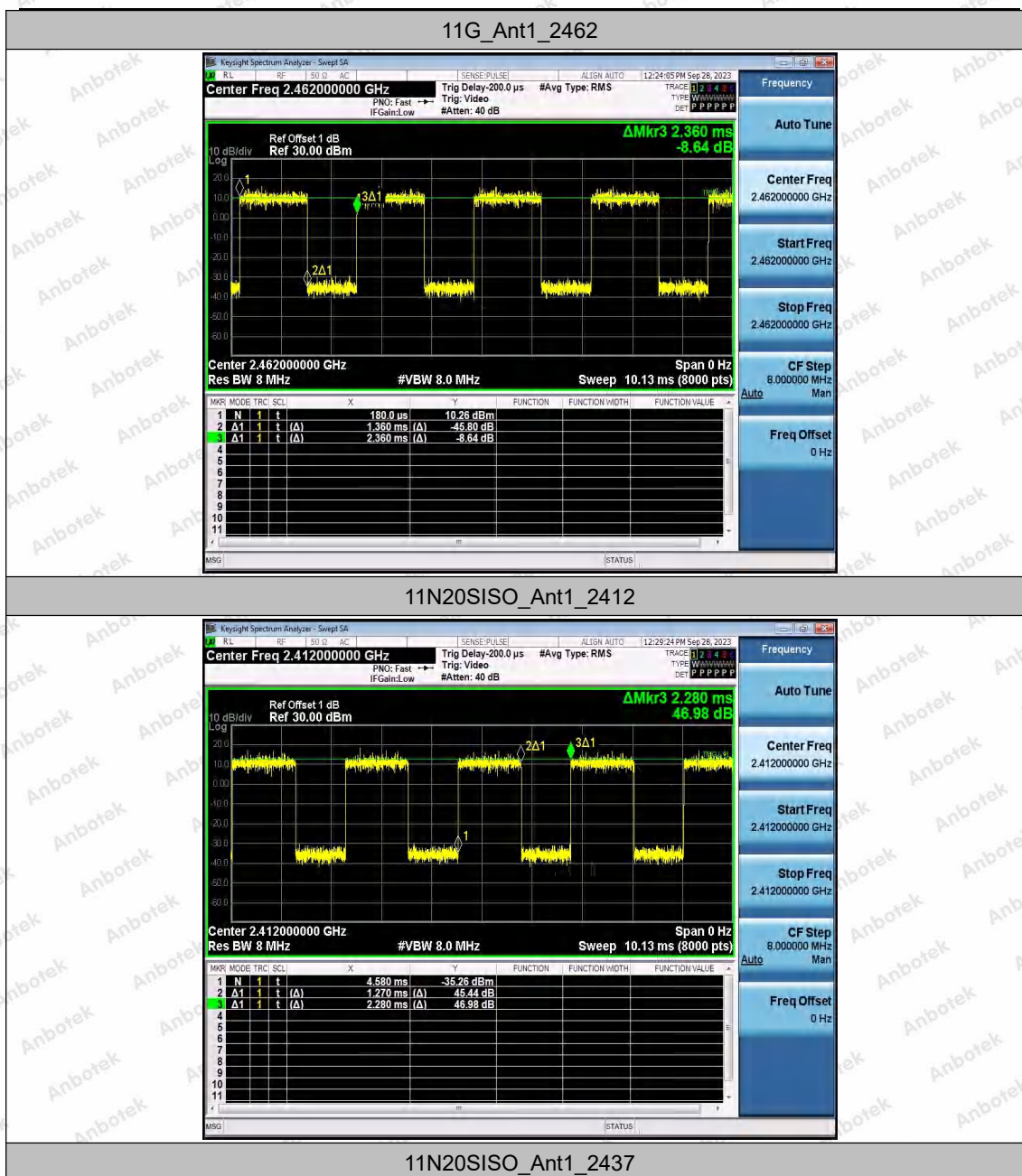


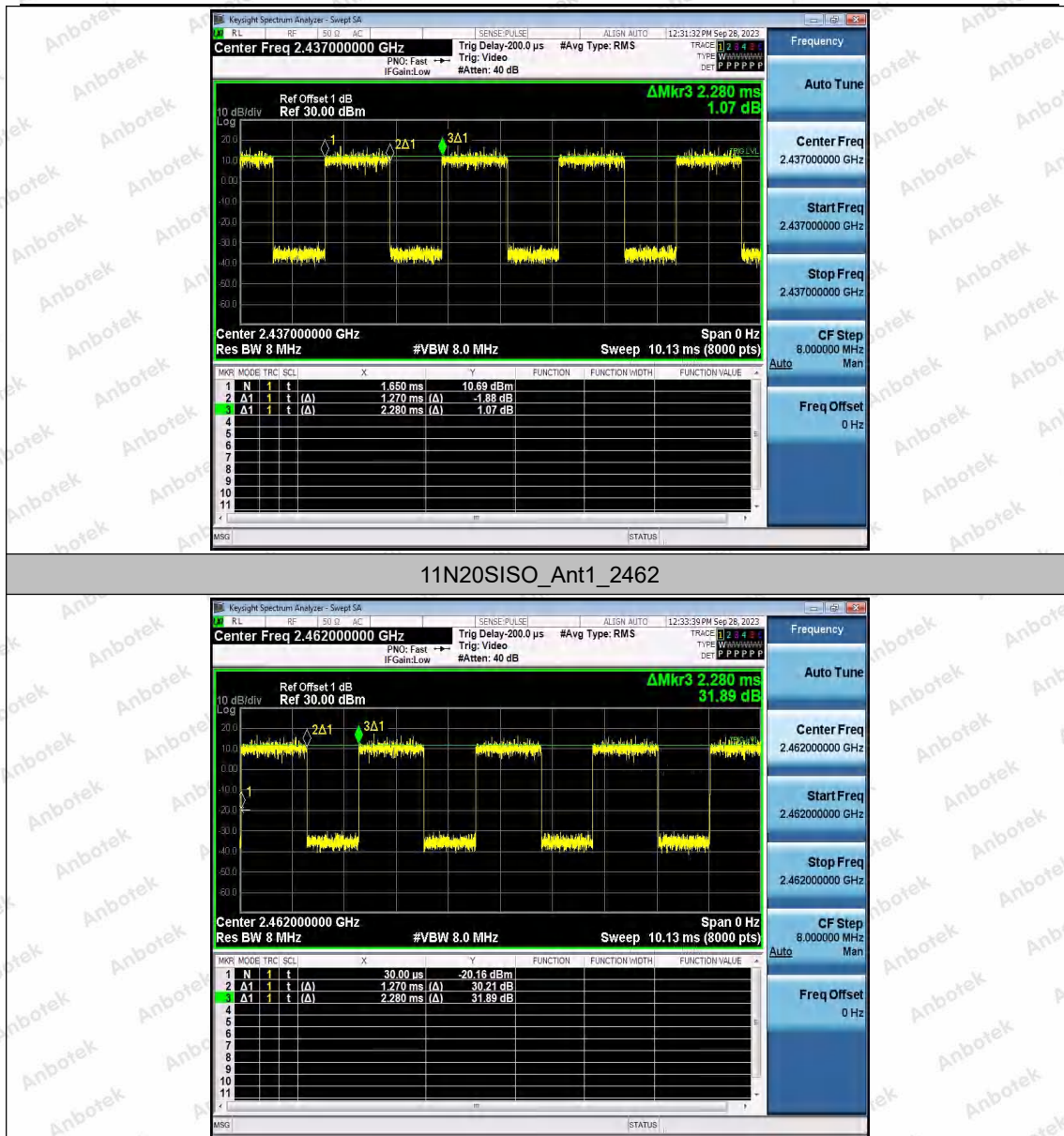
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