

Appendix Test Data

Report No.:	18220WC30098302	Test Sample No.:	1-2-2
Start Test Date:	2023.05.23	Finish Test Date:	2023.05.24
Test Engineer:	Rock Luo	Auditor:	Edward Pan
Temperature:	24.3℃	Relative Humidity:	45%
Pressure:	1012 hPa		

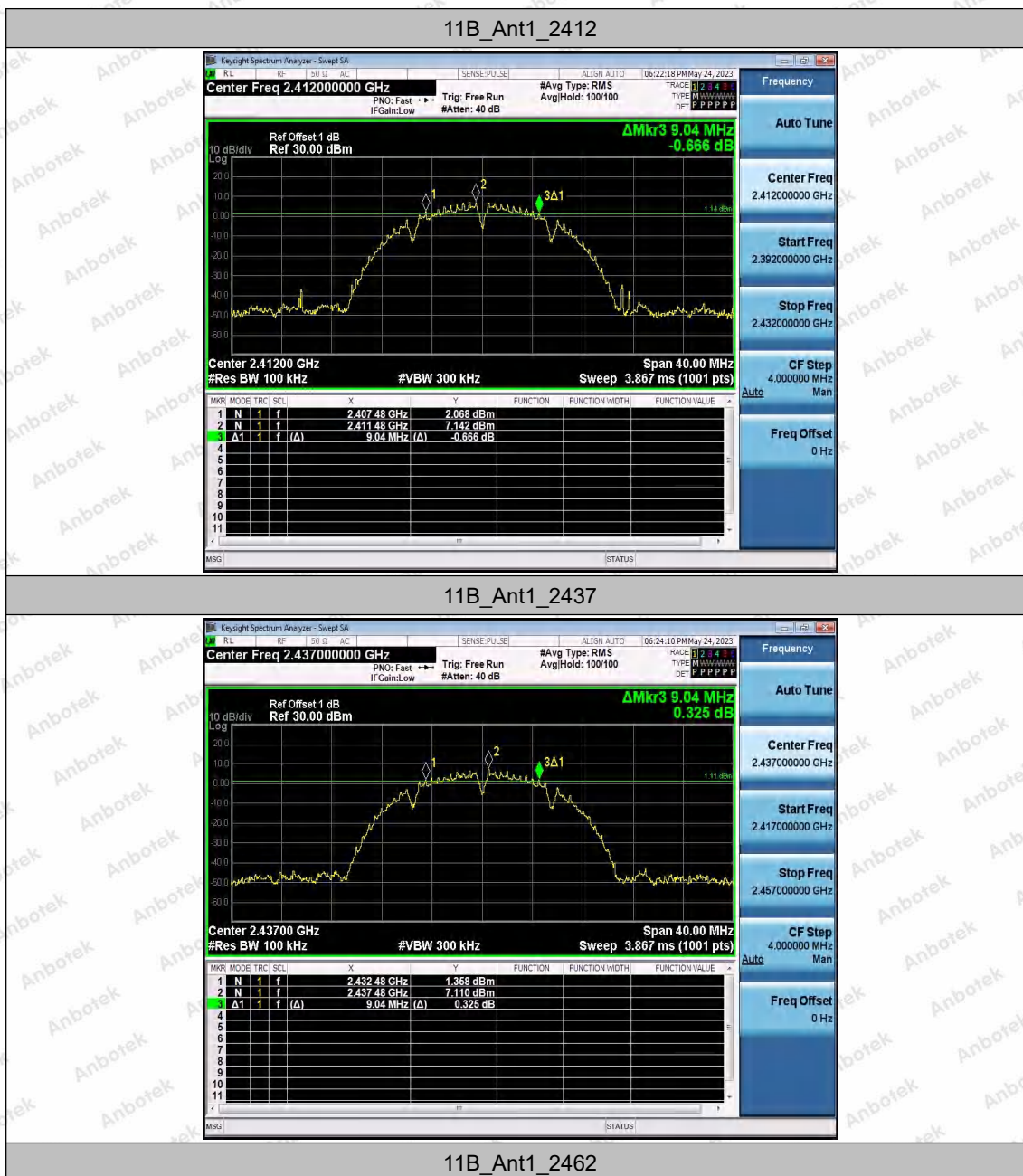
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	≥0.5	PASS
		2437	9.040	2432.480	2441.520	≥0.5	PASS
		2462	9.080	2457.480	2466.560	≥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	16.320	2453.840	2470.160	≥0.5	PASS
11N20SISO	Ant1	2412	17.120	2403.440	2420.560	≥0.5	PASS
		2437	17.560	2428.200	2445.760	≥0.5	PASS
		2462	17.560	2453.200	2470.760	≥0.5	PASS



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.016	2405.0018	2419.0178
		2437	14.013	2429.9995	2444.0125
		2462	13.993	2455.0082	2469.0012
11G	Ant1	2412	17.226	2403.3979	2420.6239
		2437	17.264	2428.4647	2445.7287
		2462	17.187	2453.4532	2470.6402
11N20SISO	Ant1	2412	18.242	2402.9151	2421.1571
		2437	18.255	2427.8985	2446.1535
		2462	18.255	2452.8481	2471.1031



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	18.76	≤30.00
		2437	18.69	≤30.00
		2462	18.67	≤30.00
11G	Ant1	2412	18.35	≤30.00
		2437	18.50	≤30.00
		2462	18.54	≤30.00
11N20SISO	Ant1	2412	18.47	≤30.00
		2437	18.47	≤30.00
		2462	18.53	≤30.00



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.48	≤8.00	PASS
		2437	-6.84	≤8.00	PASS
		2462	-6.2	≤8.00	PASS
11G	Ant1	2412	-14.54	≤8.00	PASS
		2437	-13.08	≤8.00	PASS
		2462	-13.93	≤8.00	PASS
11N20SISO	Ant1	2412	-12.04	≤8.00	PASS
		2437	-14.63	≤8.00	PASS
		2462	-13.94	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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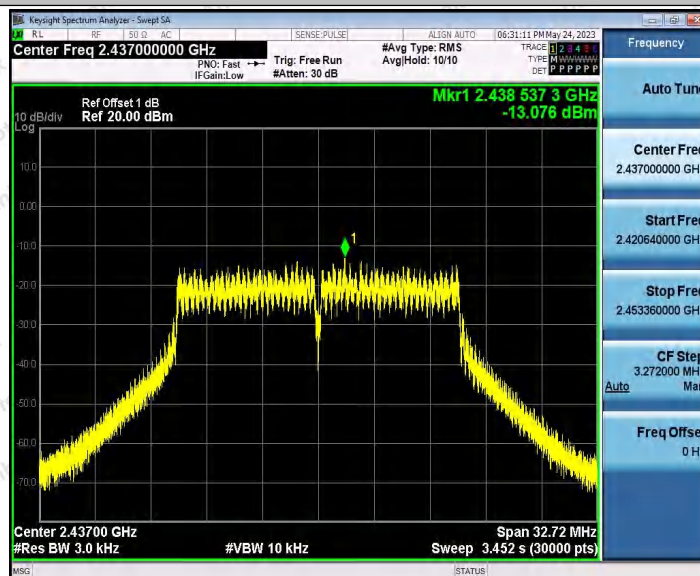




11G_Ant1_2412



11G_Ant1_2437



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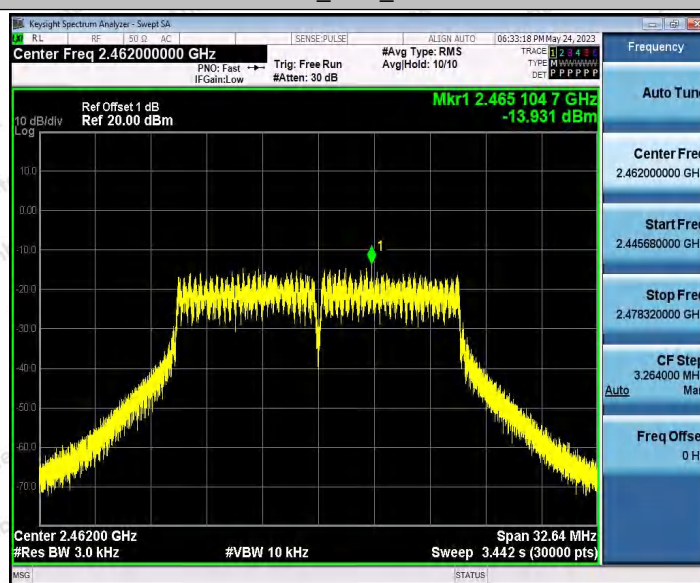
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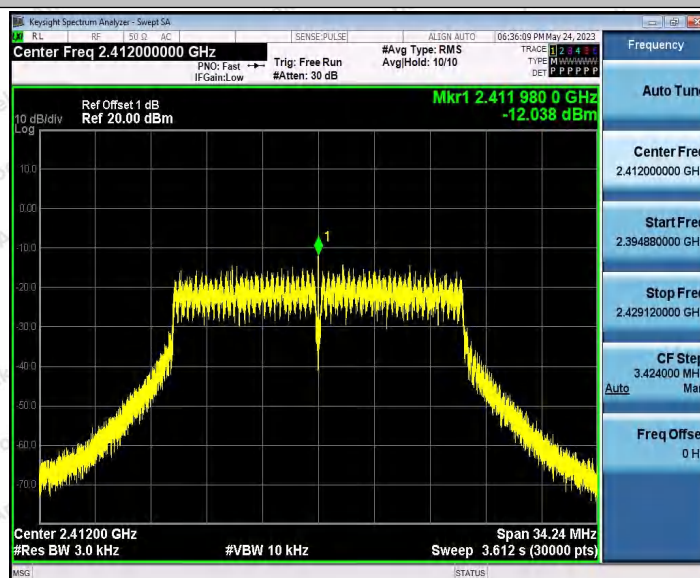
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

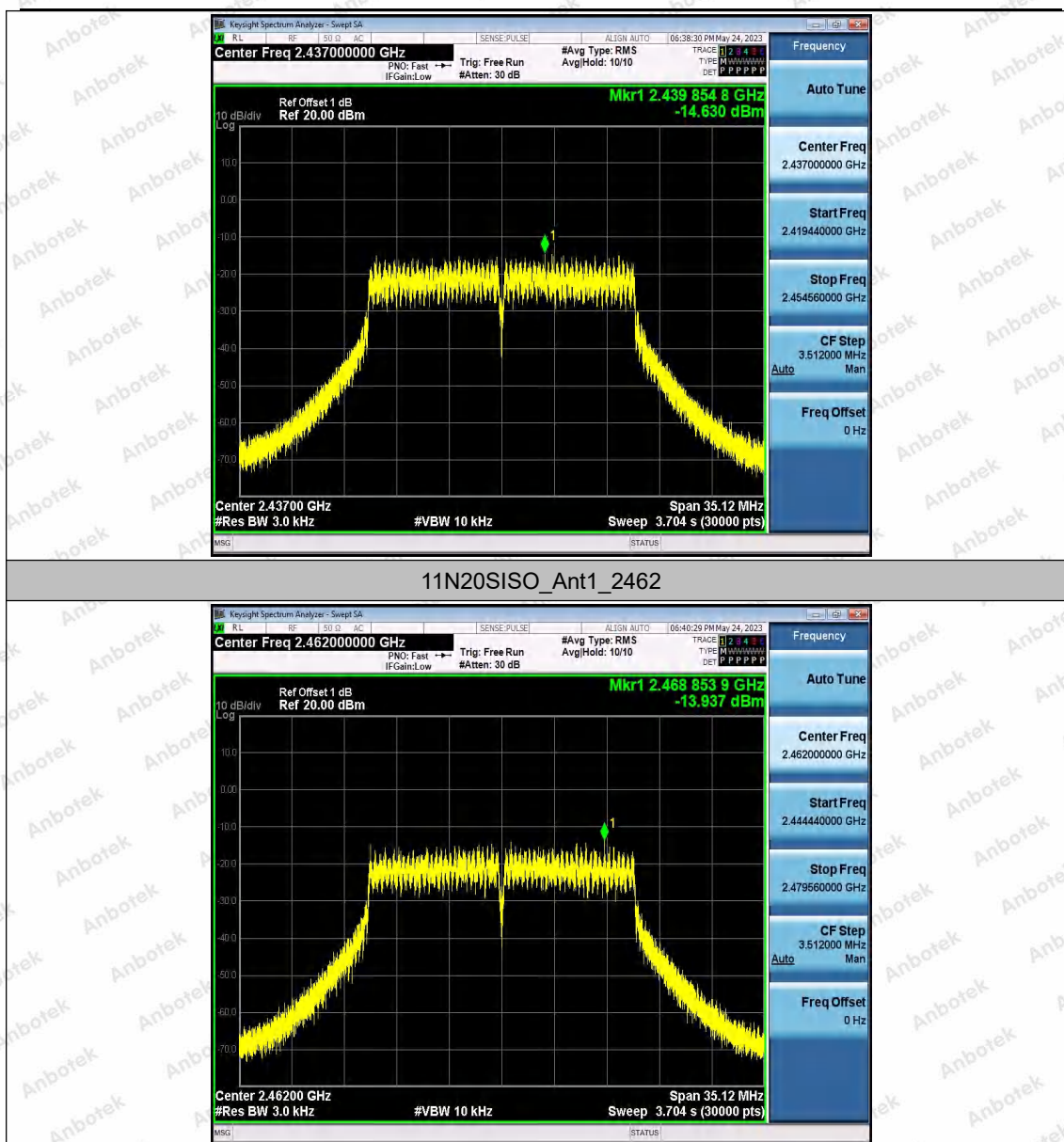
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.01	-37.04	≤-12.99	PASS
		High	2462	6.71	-53.26	≤-13.29	PASS
11G	Ant1	Low	2412	-1.04	-35.72	≤-21.04	PASS
		High	2462	-0.37	-51.66	≤-20.37	PASS
11N20SISO	Ant1	Low	2412	-0.34	-35.51	≤-20.34	PASS
		High	2462	-0.15	-53.54	≤-20.15	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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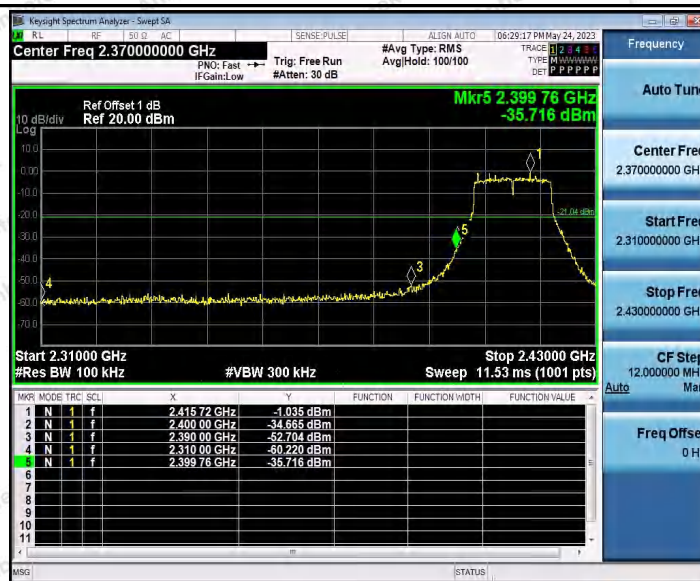


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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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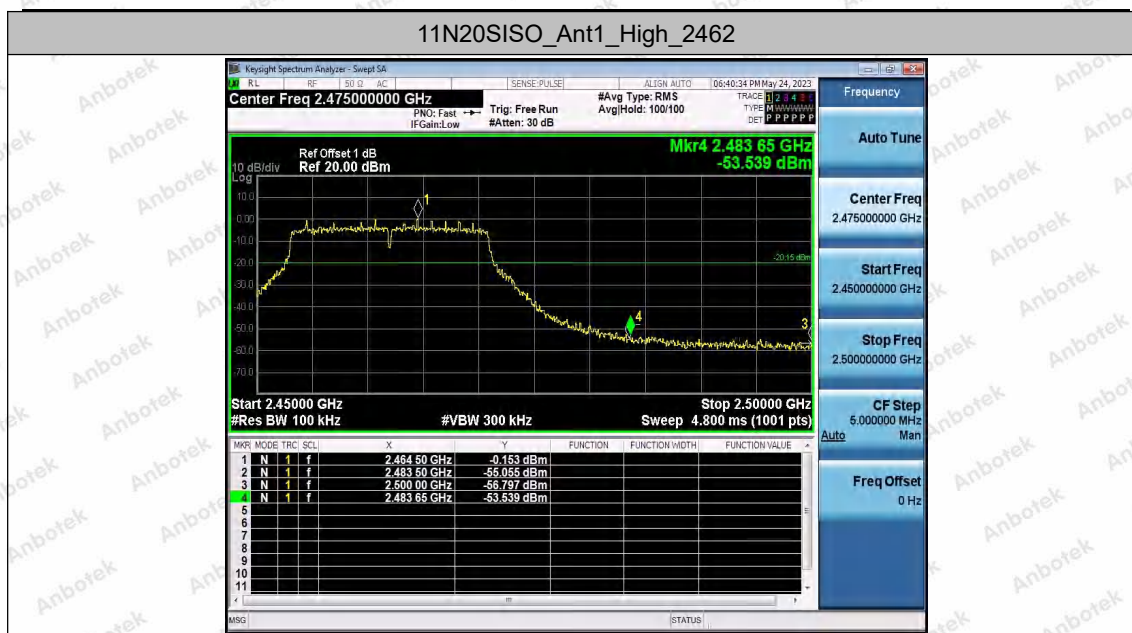


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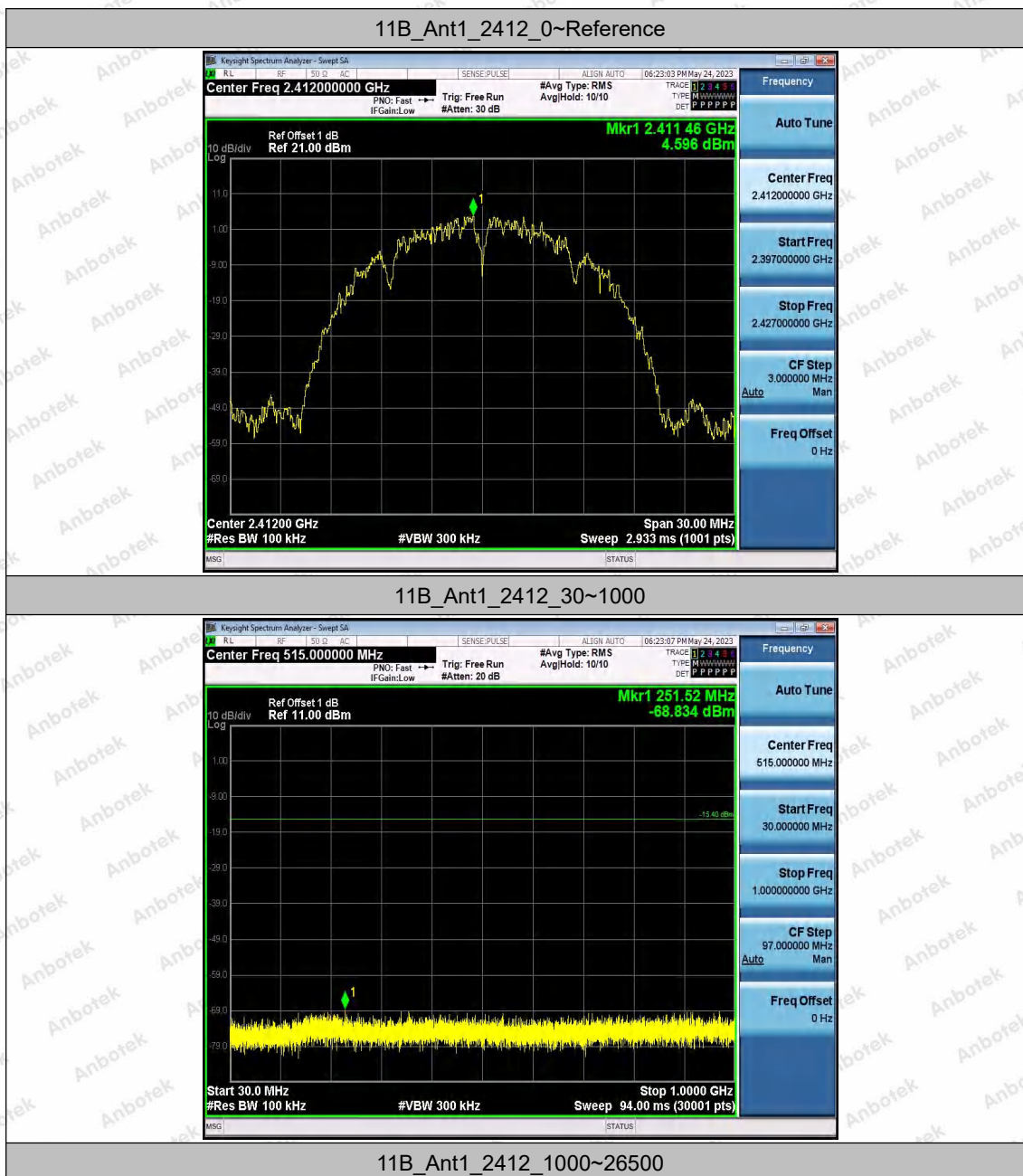
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.60	4.60	---	PASS
			30~1000	4.60	-68.83	≤-15.4	PASS
			1000~26500	4.60	-45.69	≤-15.4	PASS
		2437	Reference	5.42	5.42	---	PASS
			30~1000	5.42	-69.08	≤-14.58	PASS
			1000~26500	5.42	-45.56	≤-14.58	PASS
		2462	Reference	6.11	6.11	---	PASS
			30~1000	6.11	-68.31	≤-13.89	PASS
			1000~26500	6.11	-46.54	≤-13.89	PASS
11G	Ant1	2412	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-68.93	≤-22.74	PASS
			1000~26500	-2.74	-53.38	≤-22.74	PASS
		2437	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-68.22	≤-20.8	PASS
			1000~26500	-0.80	-53.19	≤-20.8	PASS
		2462	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-68.86	≤-22.37	PASS
			1000~26500	-2.37	-53.49	≤-22.37	PASS
11N20SISO	Ant1	2412	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-68.23	≤-21.36	PASS
			1000~26500	-1.36	-51.88	≤-21.36	PASS
		2437	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-68.26	≤-21.31	PASS
			1000~26500	-1.31	-53.46	≤-21.31	PASS
		2462	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-68.97	≤-20.46	PASS
			1000~26500	-0.46	-53.39	≤-20.46	PASS



Test Graphs



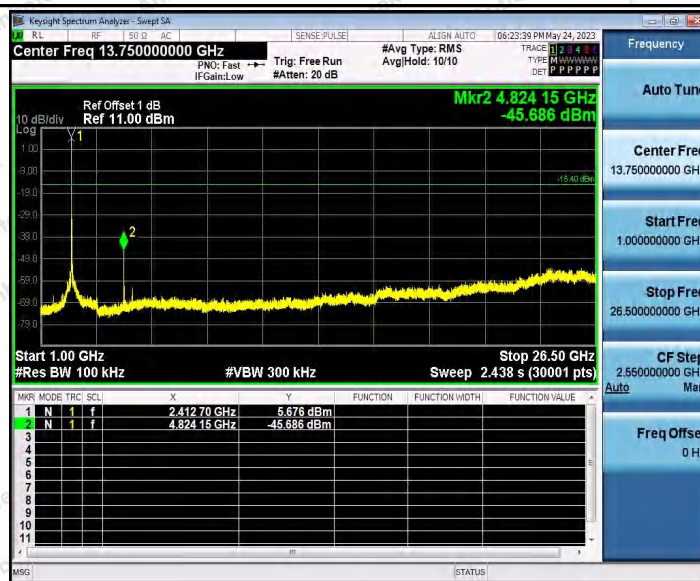
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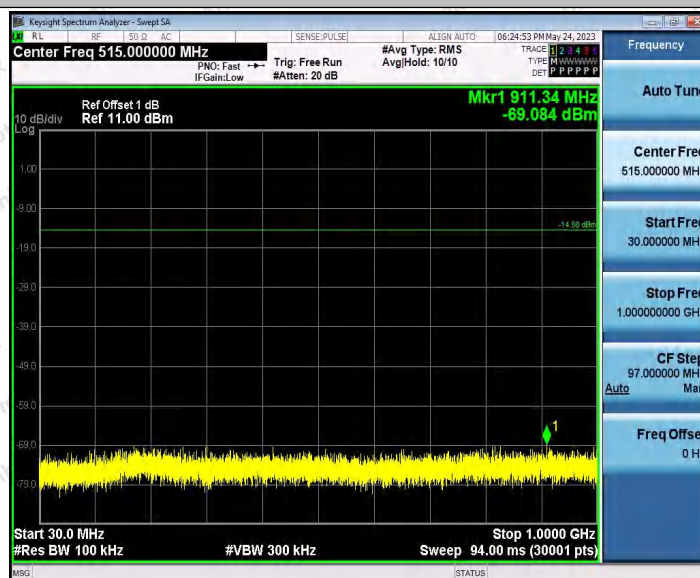




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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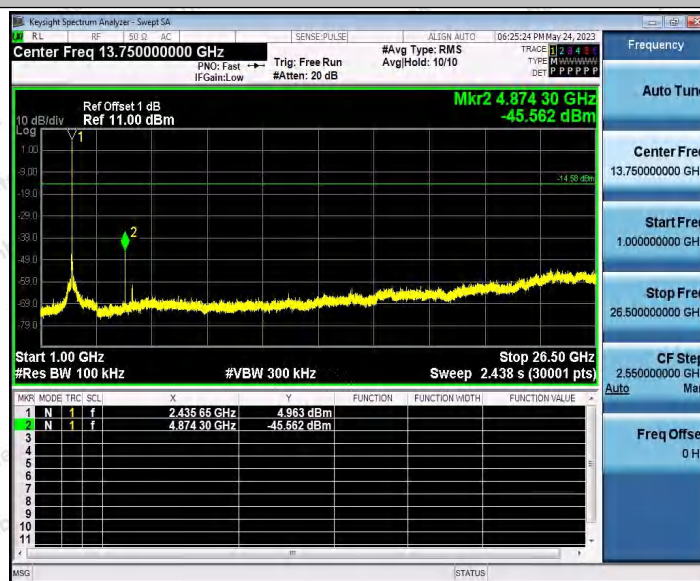
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

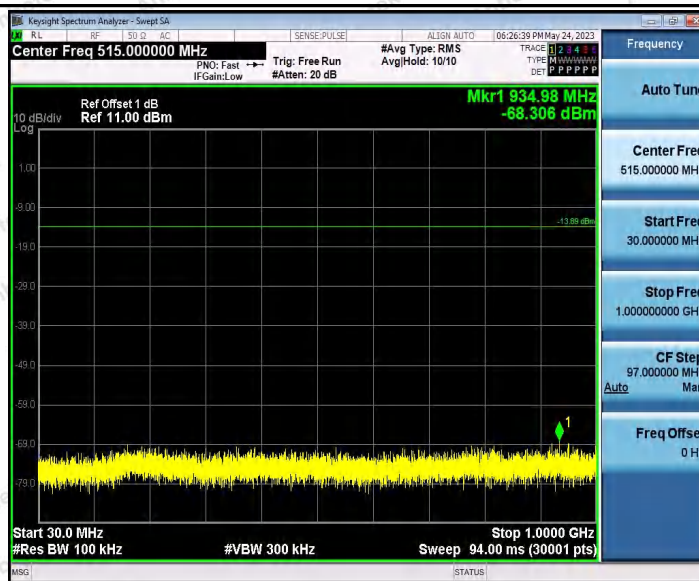
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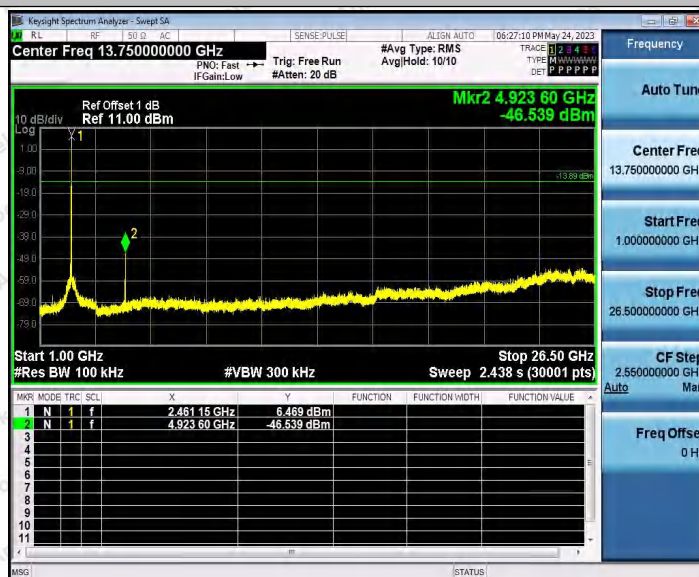


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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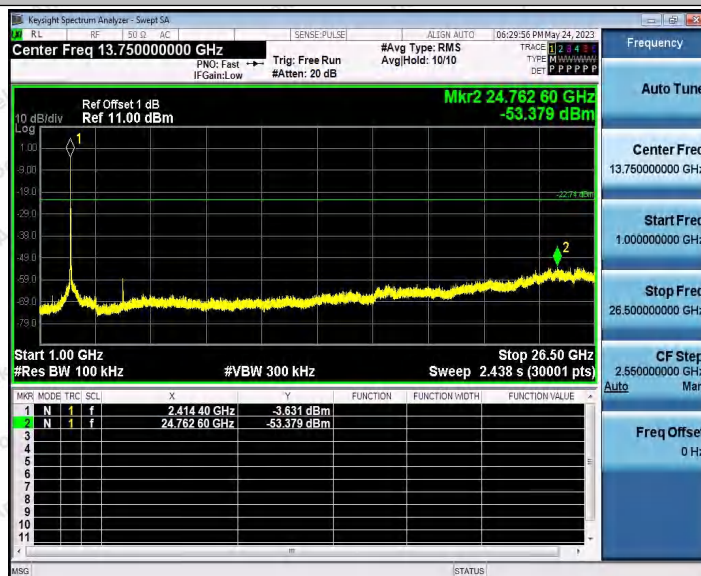
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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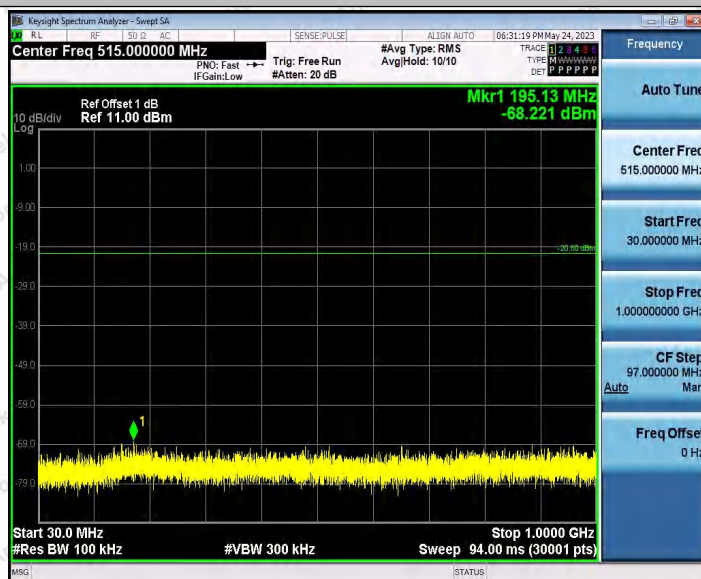


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

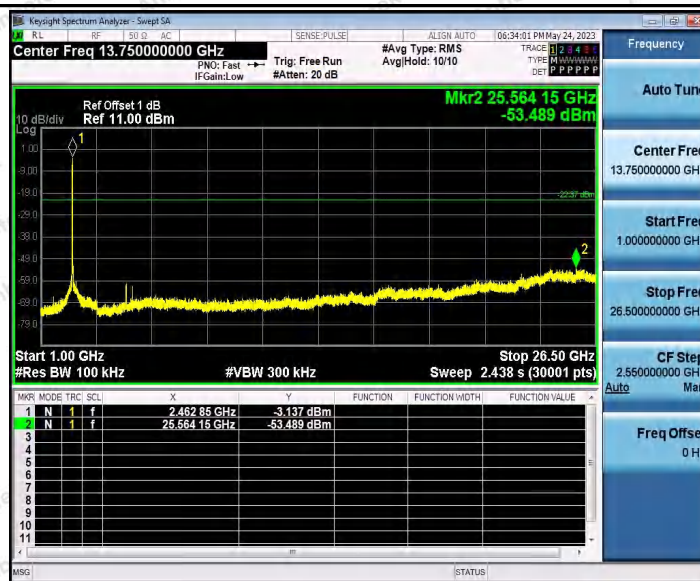
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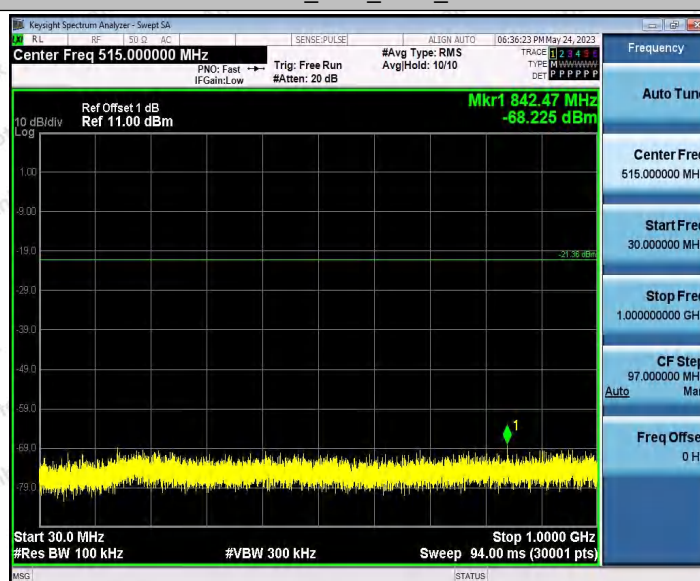




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



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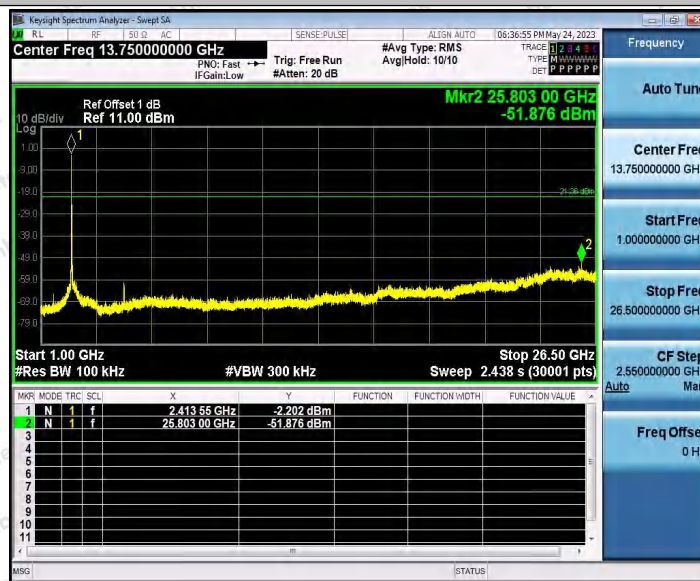
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

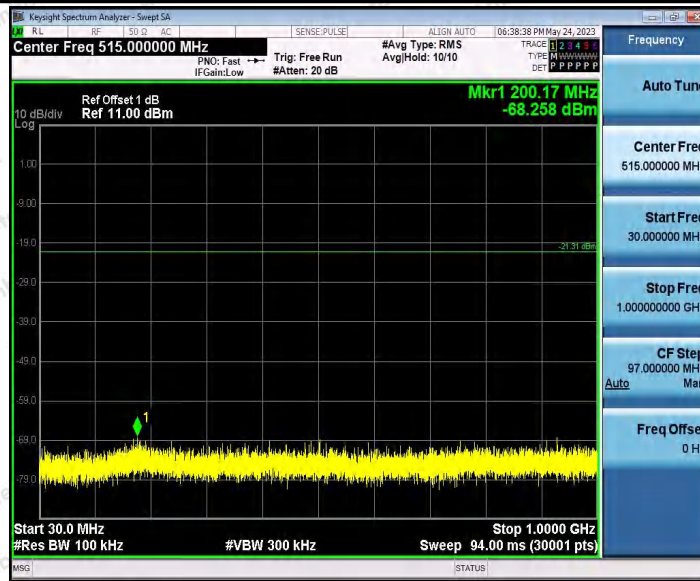
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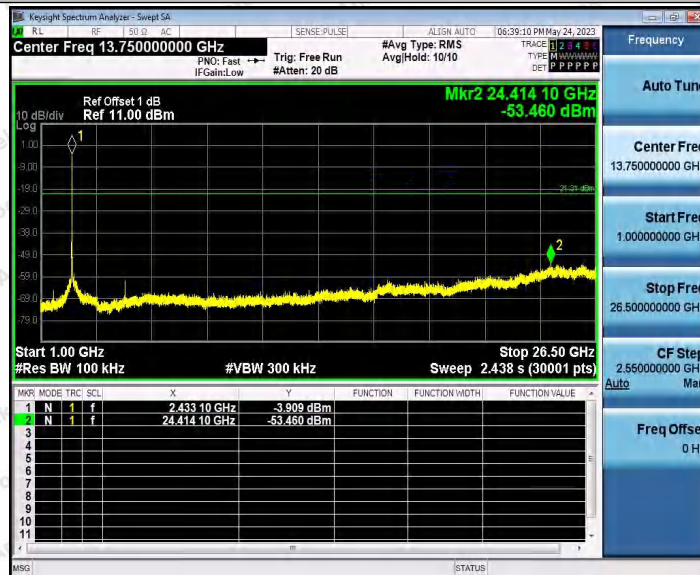


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



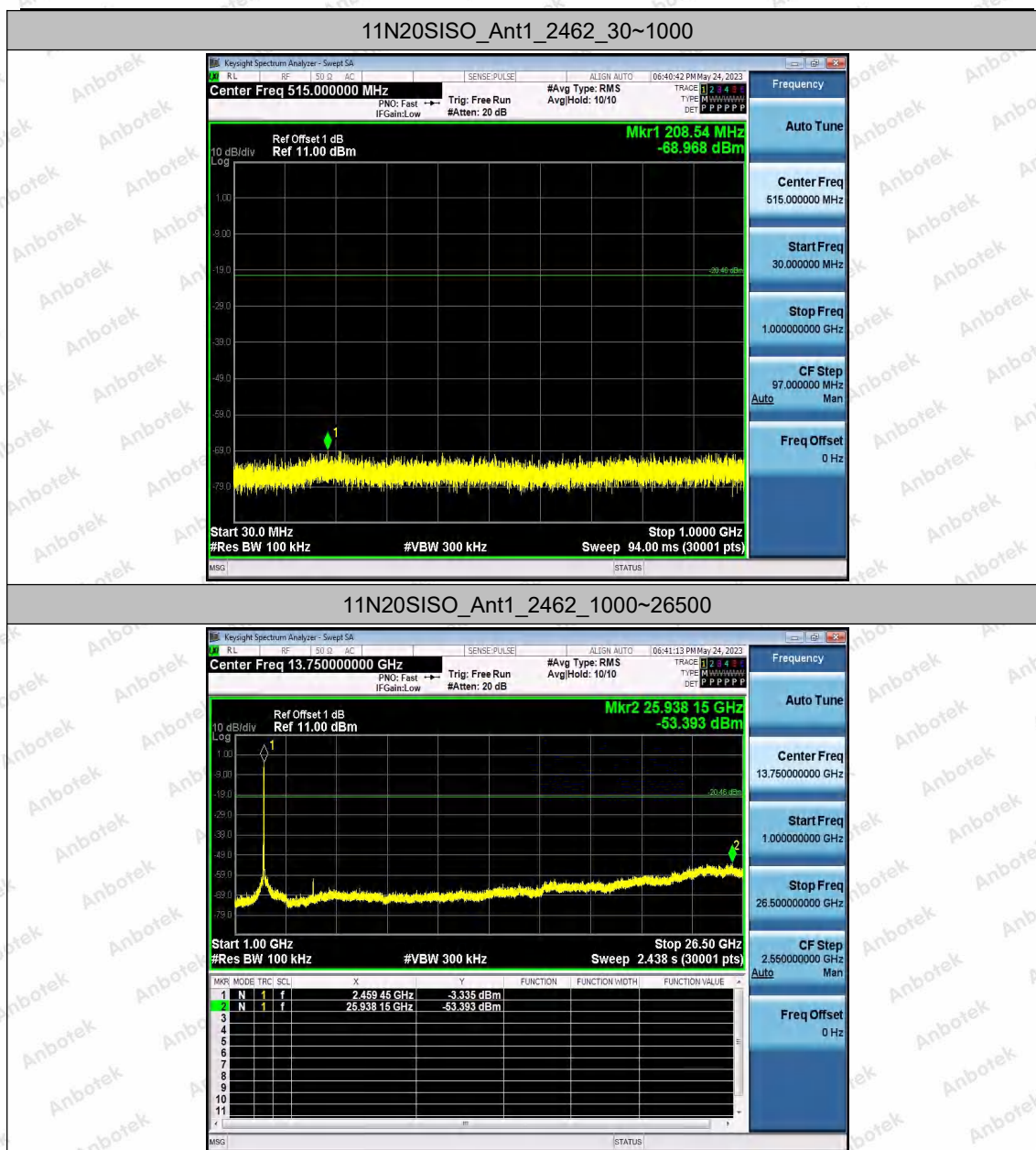
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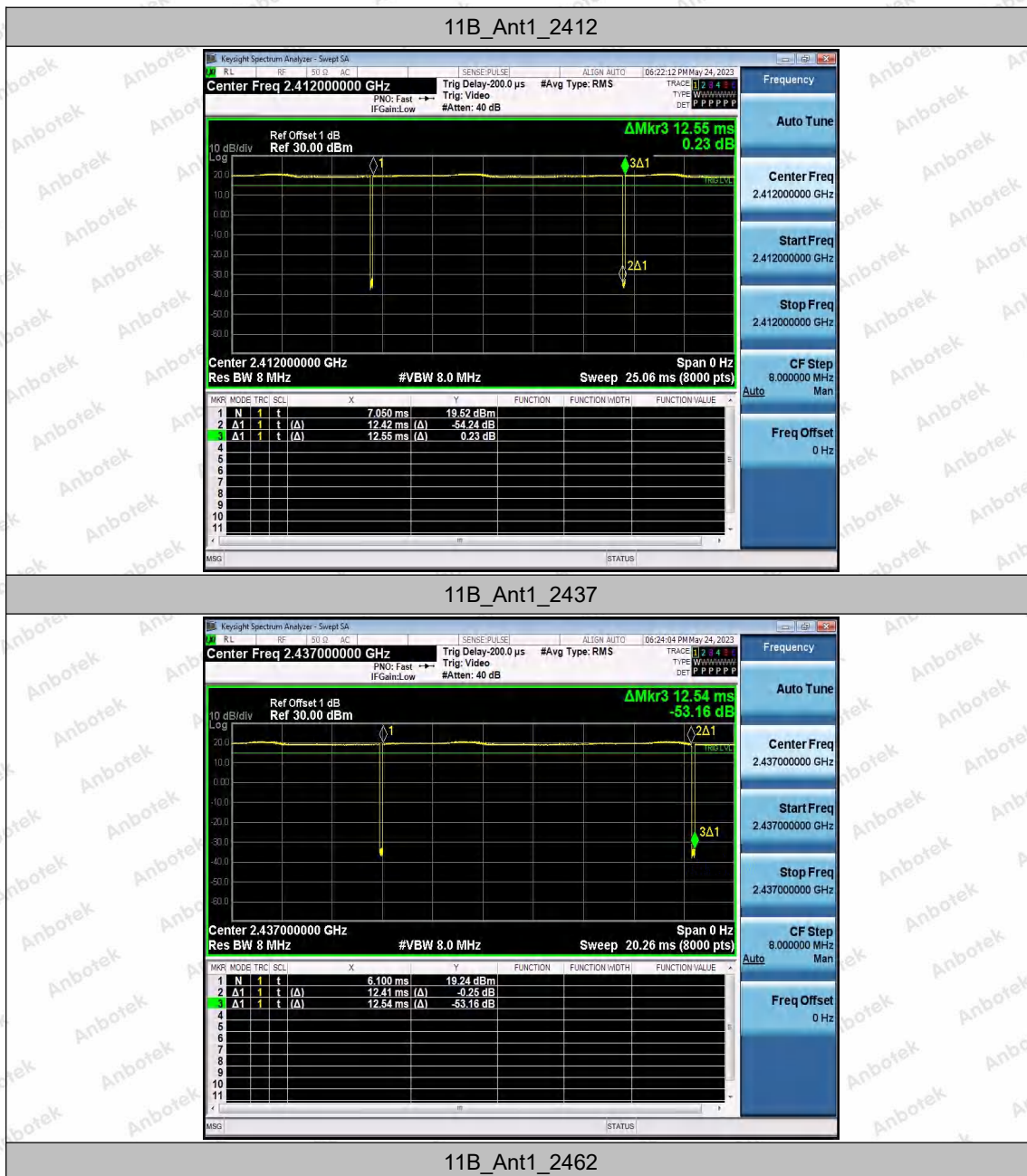
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.55	98.96	0.05
		2437	12.41	12.54	98.96	0.05
		2462	12.42	12.55	98.96	0.05
11G	Ant1	2412	2.07	2.20	94.09	0.26
		2437	2.06	2.19	94.06	0.27
		2462	2.07	2.20	94.09	0.26
11N20SISO	Ant1	2412	1.92	2.05	93.66	0.28
		2437	1.91	2.04	93.63	0.29
		2462	1.92	2.05	93.66	0.28



Test Graphs



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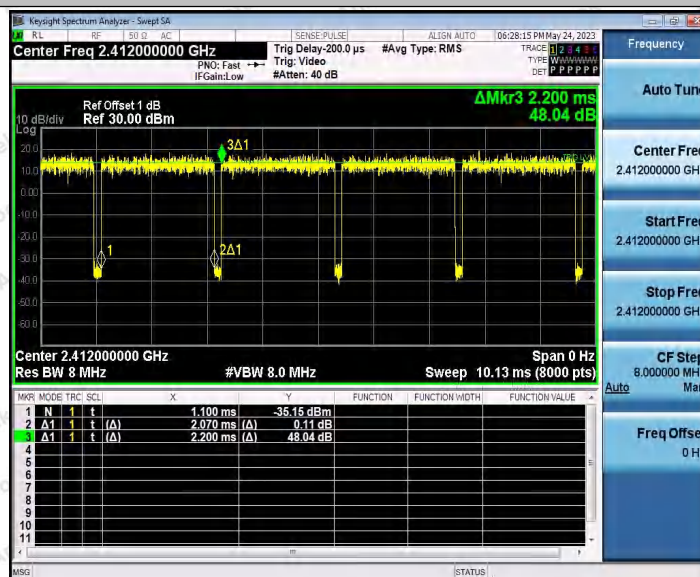


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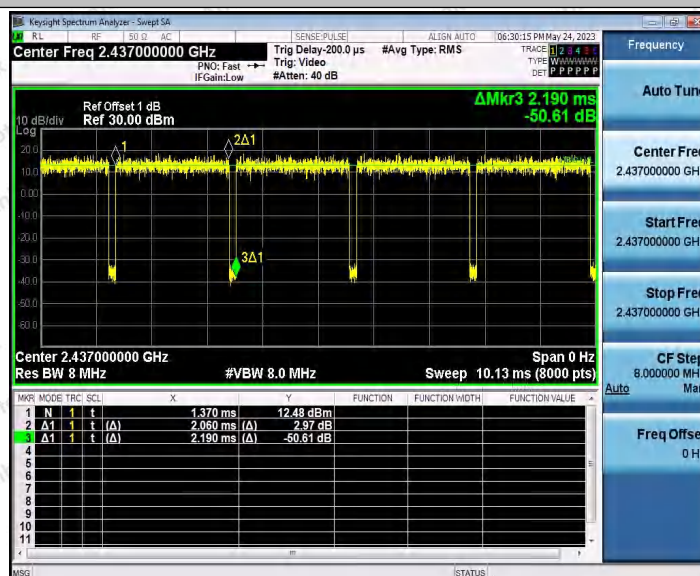




11G_Ant1_2412



11G_Ant1_2437



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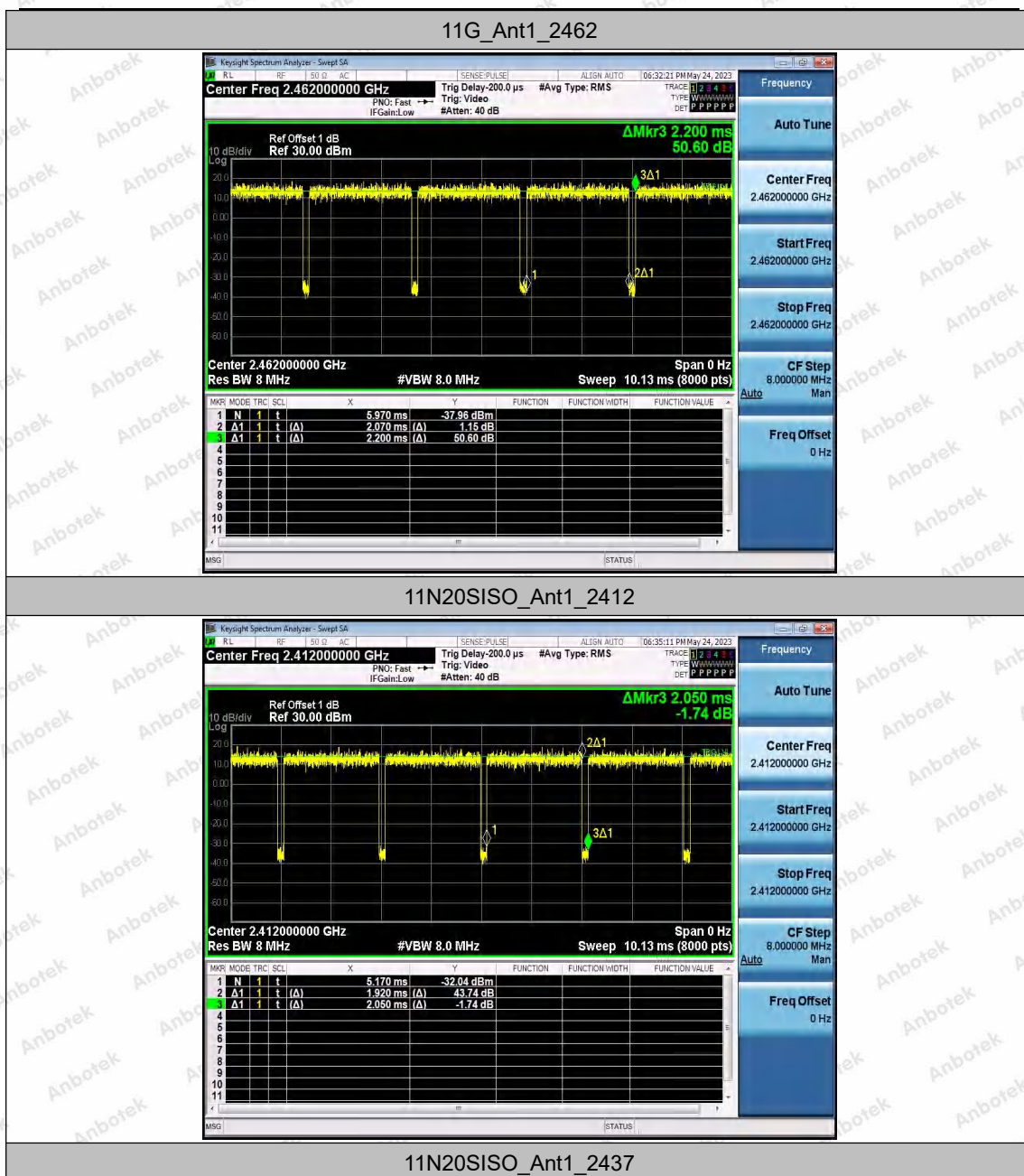


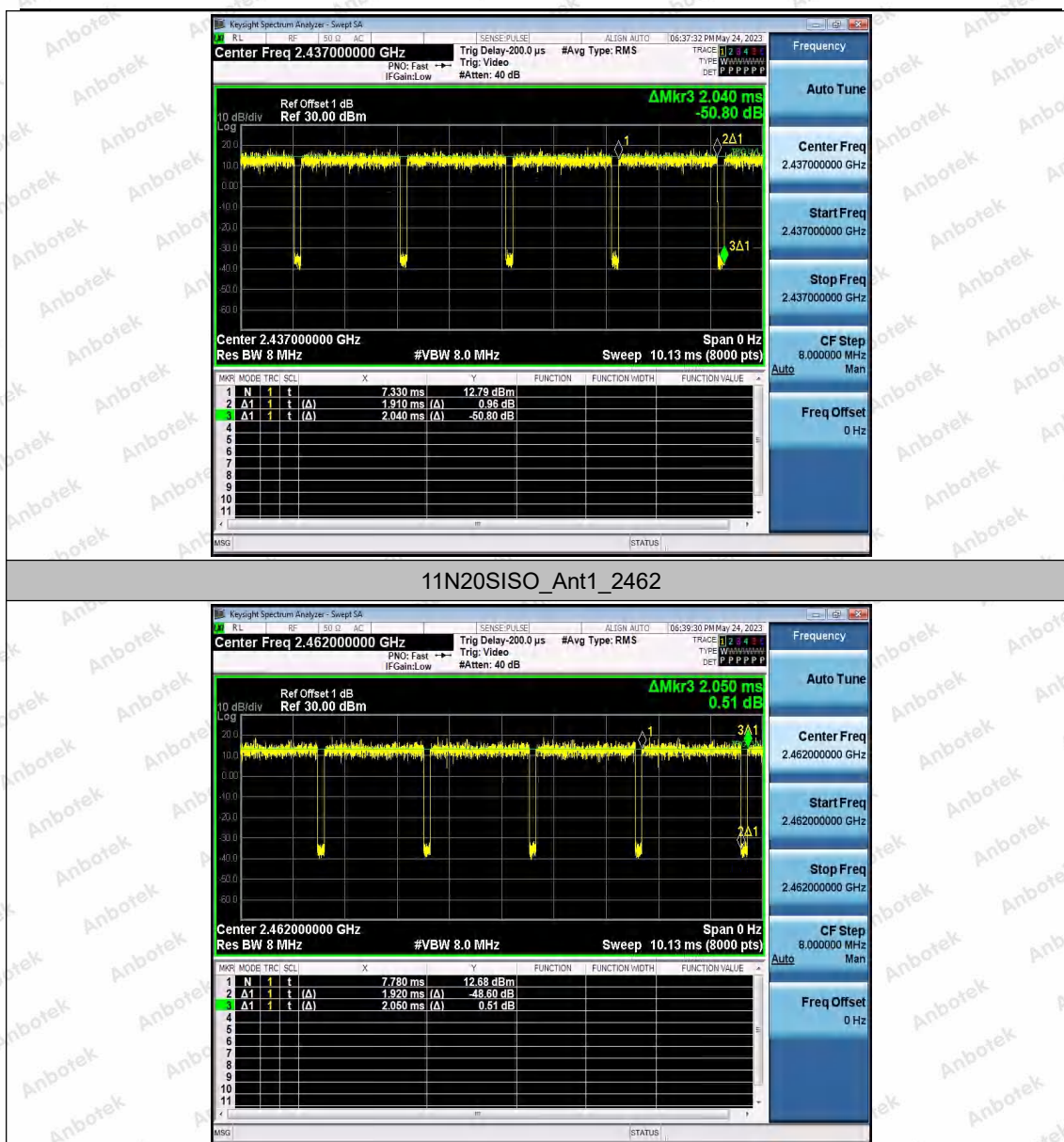
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