

Appendix Test Data

Report No.:	18220WC30170801	Test Sample No.:	1-2-2
Start Test Date:	2023.08.10	Finish Test Date:	2023.08.15
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3℃	Relative Humidity:	48%
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	10.040	2407.000	2417.040	≥0.5	PASS
		2437	9.120	2432.440	2441.560	≥0.5	PASS
		2462	10.000	2457.000	2467.000	≥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	16.400	2453.800	2470.200	≥0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	≥0.5	PASS
		2437	17.600	2428.200	2445.800	≥0.5	PASS
		2462	17.600	2453.200	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



11N20SISO_Ant1_2437

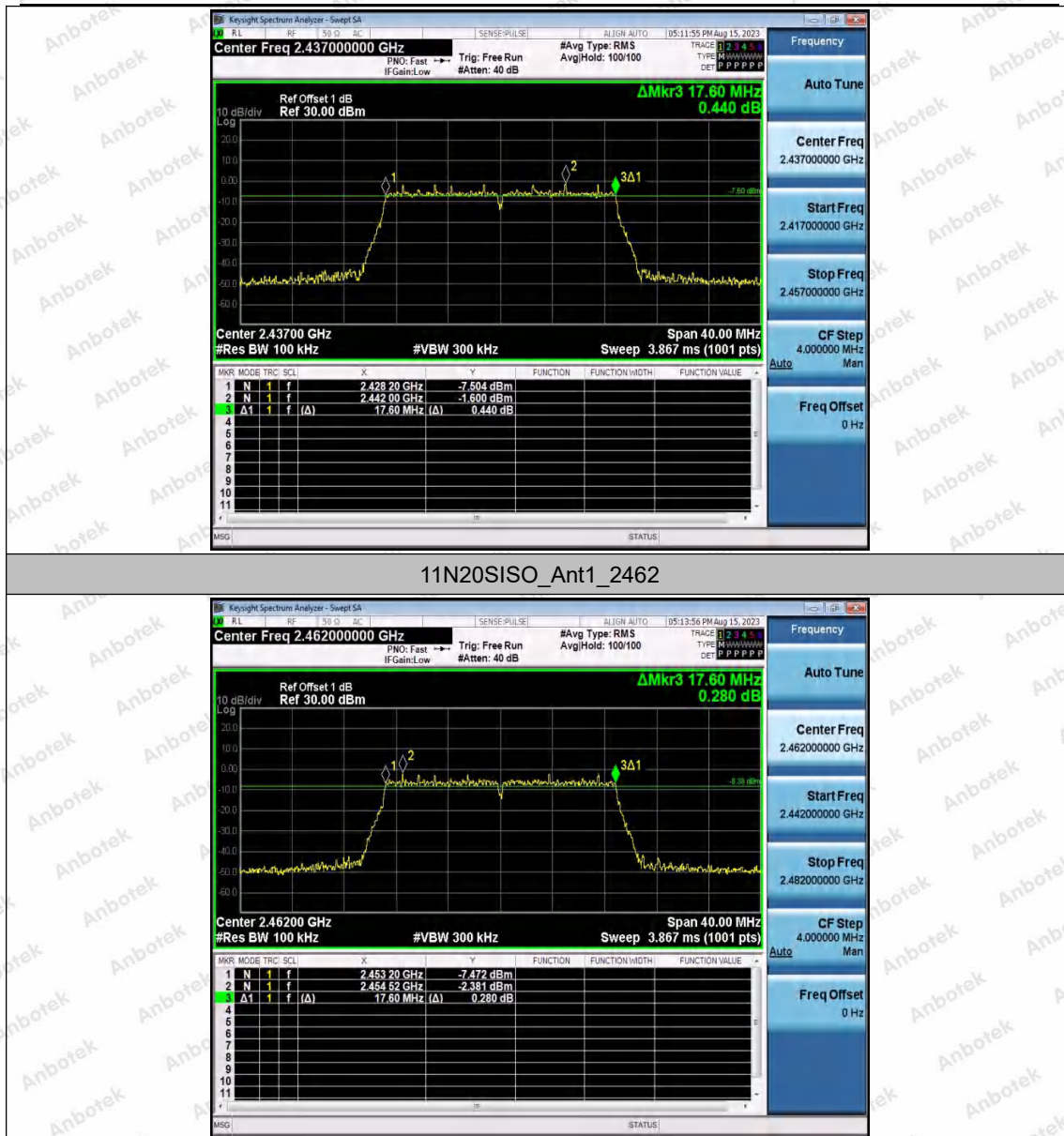
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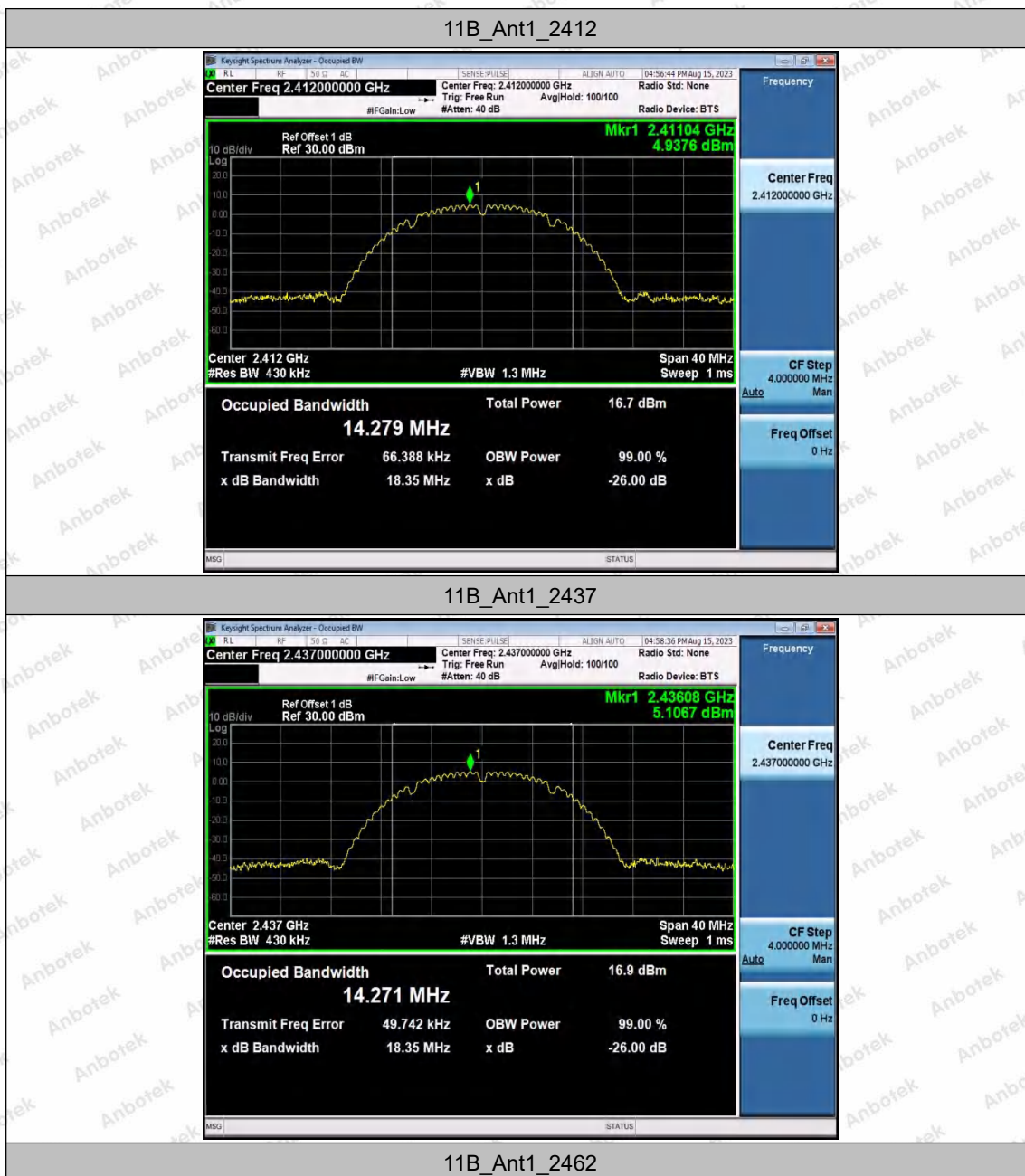
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.279	2404.9269	2419.2059
		2437	14.271	2429.9142	2444.1852
		2462	14.270	2454.8817	2469.1517
11G	Ant1	2412	17.065	2403.4787	2420.5437
		2437	17.178	2428.4351	2445.6131
		2462	17.091	2453.4855	2470.5765
11N20SISO	Ant1	2412	17.997	2403.0294	2421.0264
		2437	17.952	2428.0732	2446.0252
		2462	17.958	2453.0735	2471.0315



Test Graphs



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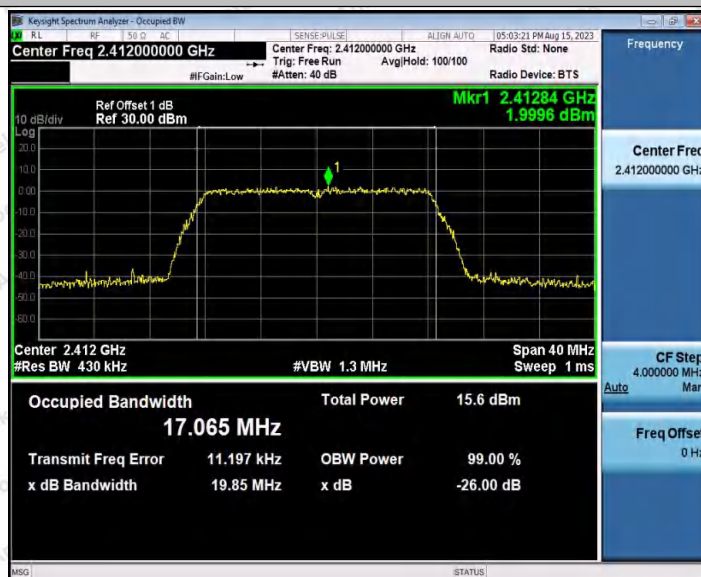


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11G_Ant1_2412



11G_Ant1_2437

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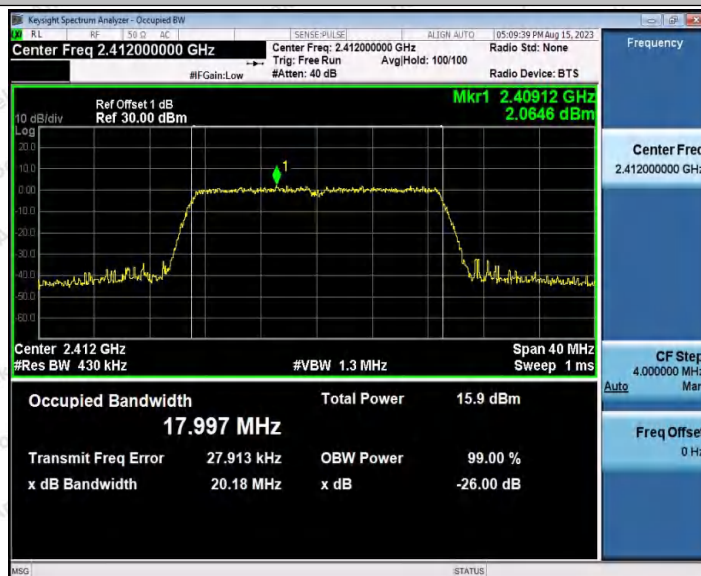
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

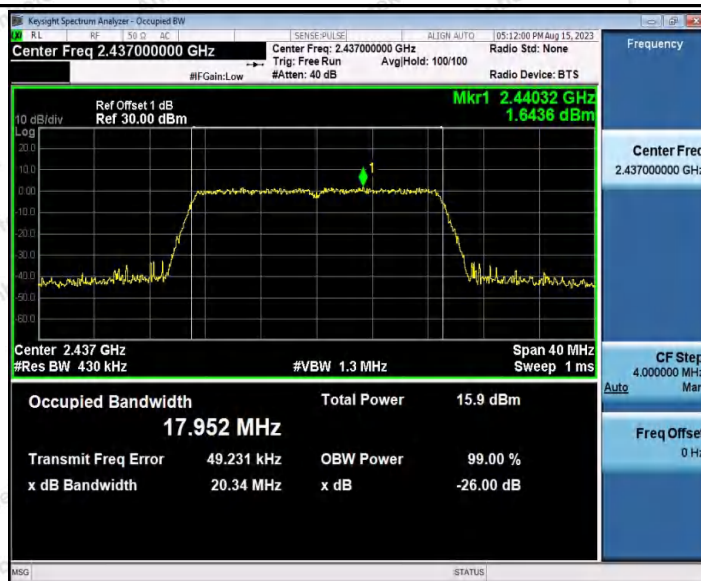
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11N20SISO_Ant1_2462



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Appendix C: Maximum output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	16.77	≤30.00
		2437	16.90	≤30.00
		2462	16.87	≤30.00
11G	Ant1	2412	16.84	≤30.00
		2437	16.72	≤30.00
		2462	16.81	≤30.00
11N20SISO	Ant1	2412	16.93	≤30.00
		2437	16.98	≤30.00
		2462	16.69	≤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	-9.40	≤8.00	PASS
		2437	-9.34	≤8.00	PASS
		2462	-9.45	≤8.00	PASS
11G	Ant1	2412	-15.83	≤8.00	PASS
		2437	-14.28	≤8.00	PASS
		2462	-14.57	≤8.00	PASS
11N20SISO	Ant1	2412	-15.61	≤8.00	PASS
		2437	-15.08	≤8.00	PASS
		2462	-16.16	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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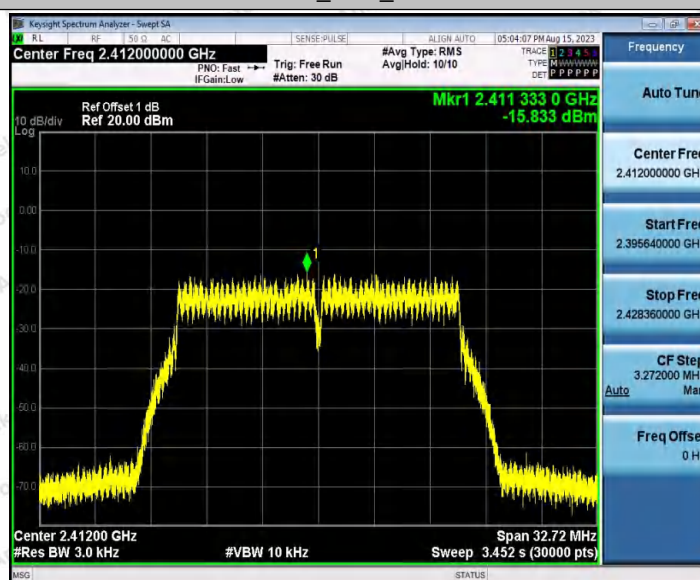


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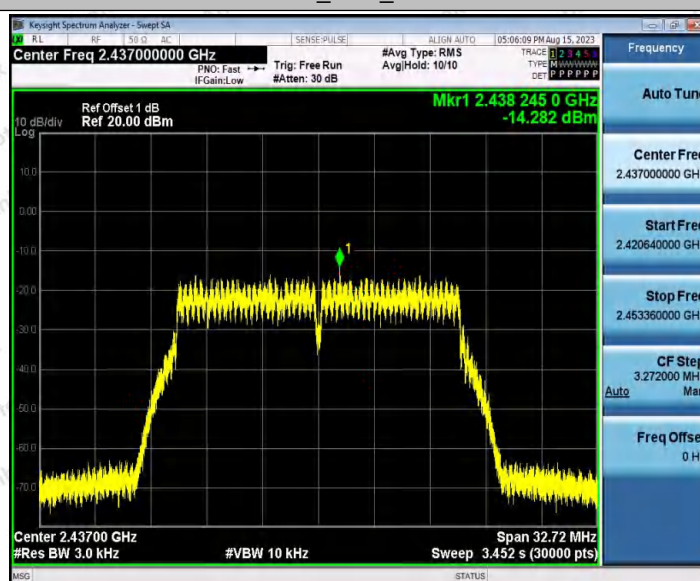




11G_Ant1_2412



11G_Ant1_2437



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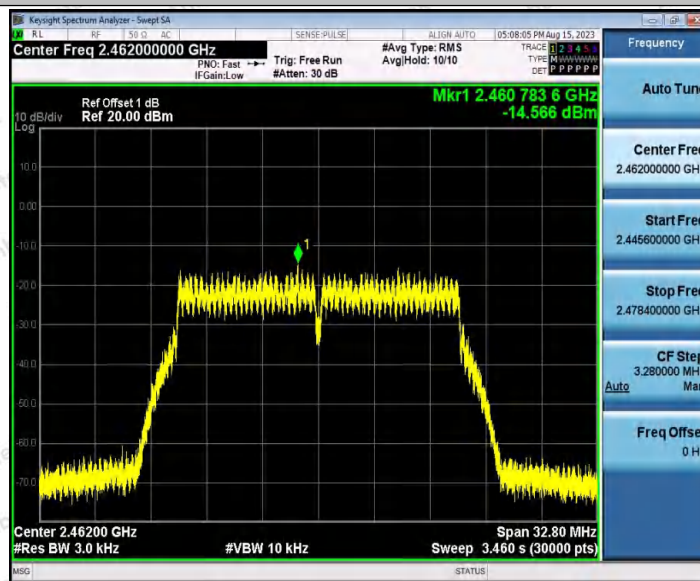
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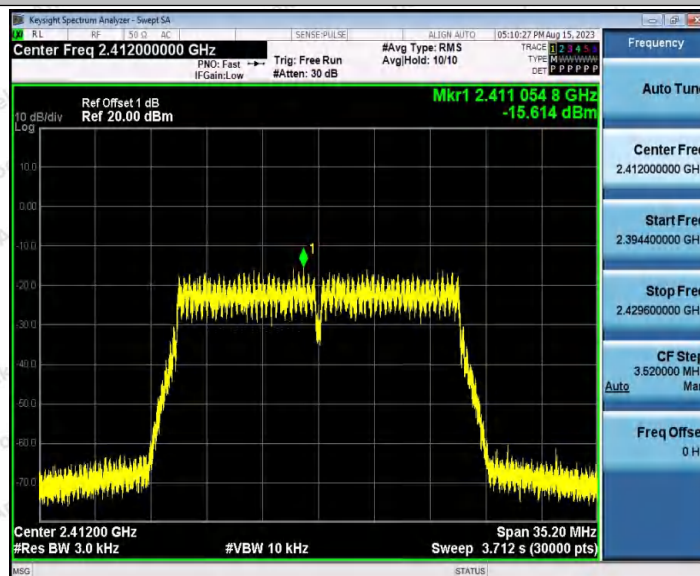
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

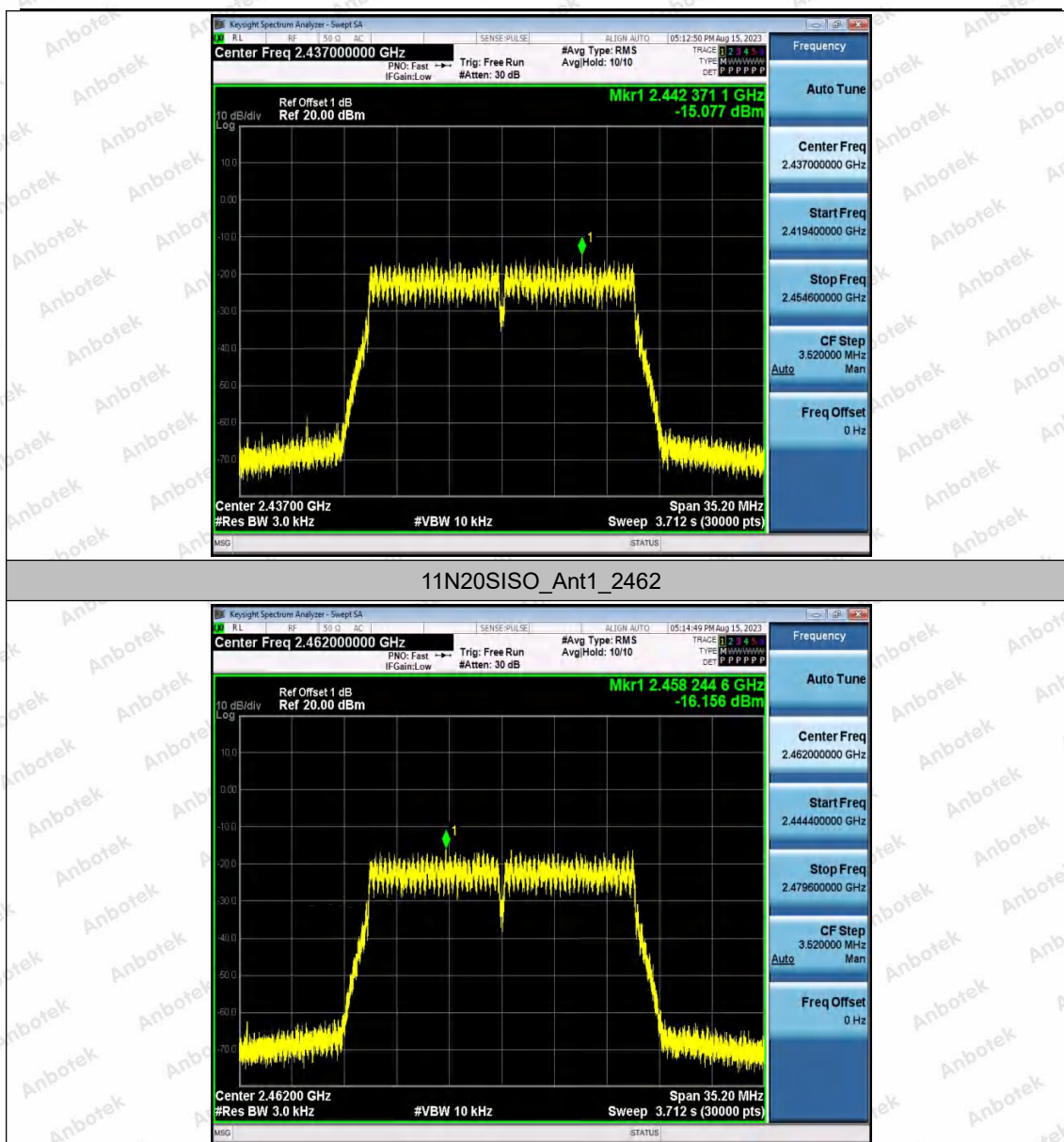
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Appendix E: Band edge measurements

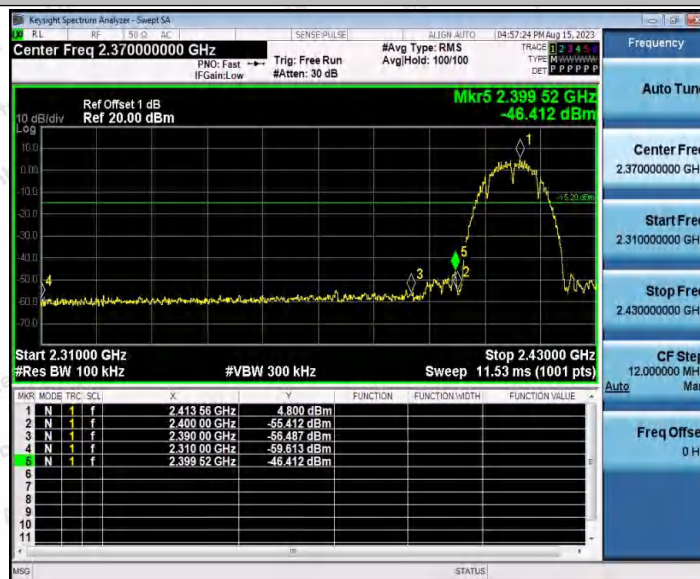
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.80	-46.41	≤-15.2	PASS
		High	2462	-4.40	-55.52	≤-15.6	PASS
11G	Ant1	Low	2412	-1.78	-48.65	≤-21.78	PASS
		High	2462	-1.29	-53.52	≤-21.29	PASS
11N20SISO	Ant1	Low	2412	-2.11	-45.80	≤-22.11	PASS
		High	2462	-1.43	-53.03	≤-21.43	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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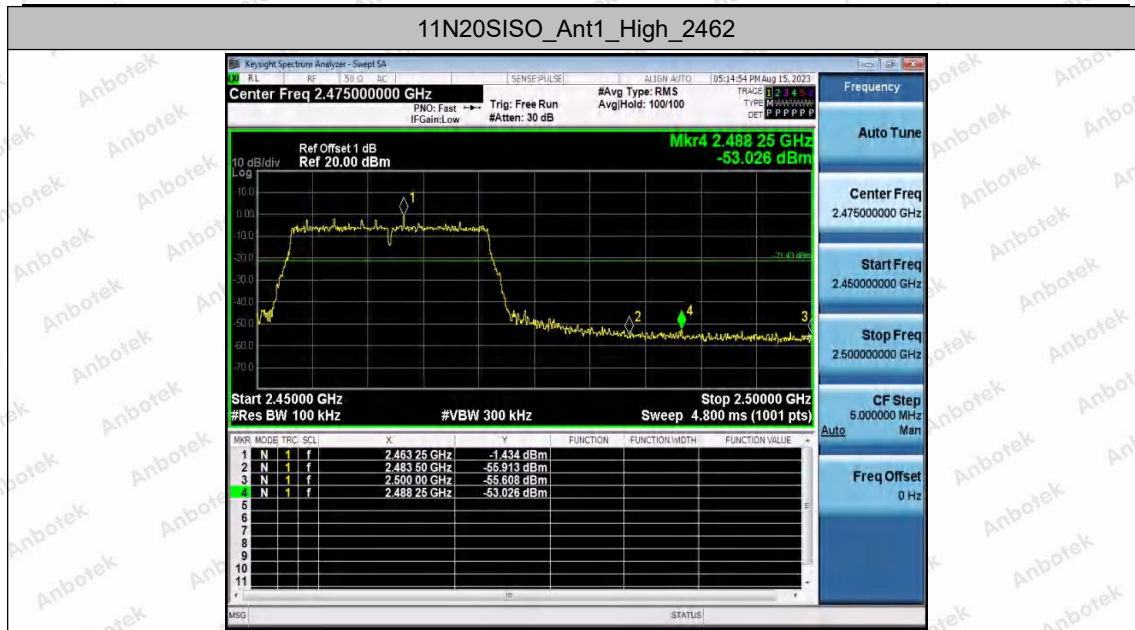


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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-67.98	≤-17.04	PASS
			1000~26500	2.96	-52.70	≤-17.04	PASS
		2437	Reference	4.74	4.74	---	PASS
			30~1000	4.74	-69.12	≤-15.26	PASS
			1000~26500	4.74	-53.71	≤-15.26	PASS
		2462	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-69.26	≤-16.68	PASS
			1000~26500	3.32	-51.68	≤-16.68	PASS
11G	Ant1	2412	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-67.99	≤-24.4	PASS
			1000~26500	-4.40	-53.36	≤-24.4	PASS
		2437	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-68.56	≤-22.06	PASS
			1000~26500	-2.06	-53.02	≤-22.06	PASS
		2462	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-68.68	≤-22.27	PASS
			1000~26500	-2.27	-53.31	≤-22.27	PASS
11N20SISO	Ant1	2412	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-68.85	≤-24.68	PASS
			1000~26500	-4.68	-53.78	≤-24.68	PASS
		2437	Reference	-4.66	-4.66	---	PASS
			30~1000	-4.66	-67.59	≤-24.66	PASS
			1000~26500	-4.66	-53.64	≤-24.66	PASS
		2462	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-68.47	≤-22.24	PASS
			1000~26500	-2.24	-53.39	≤-22.24	PASS

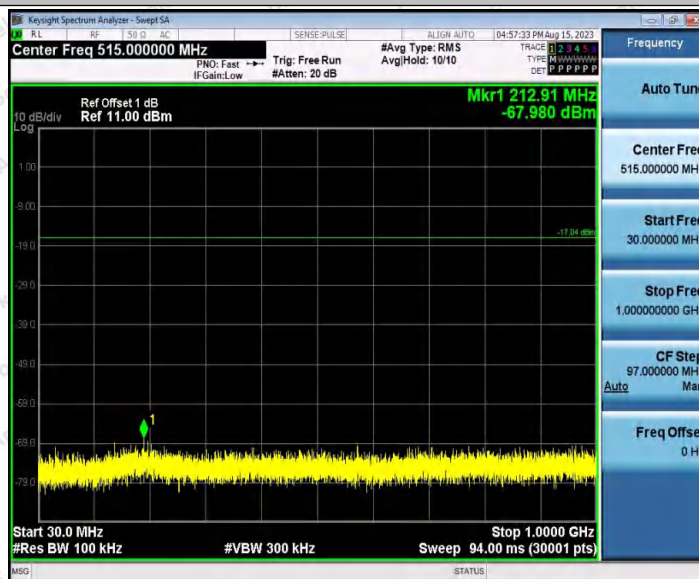


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

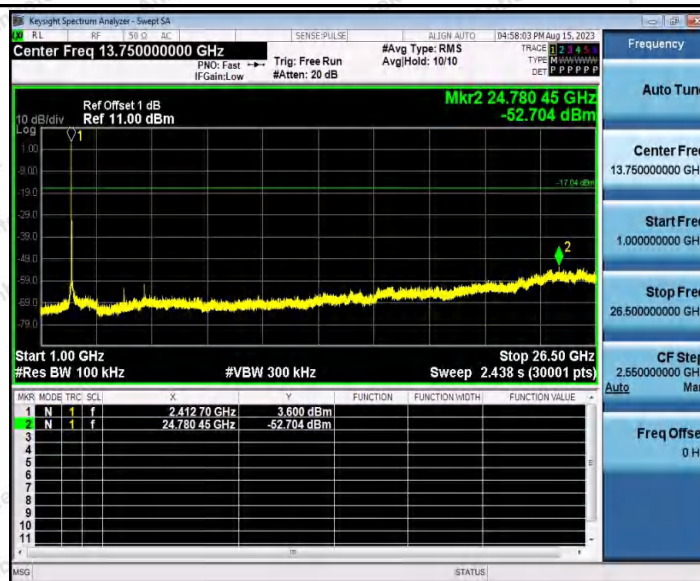
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



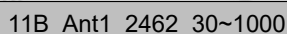
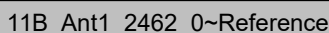
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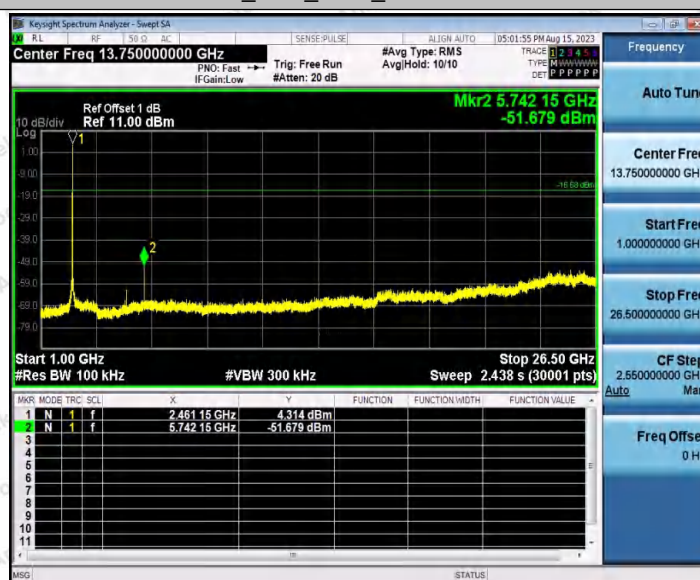
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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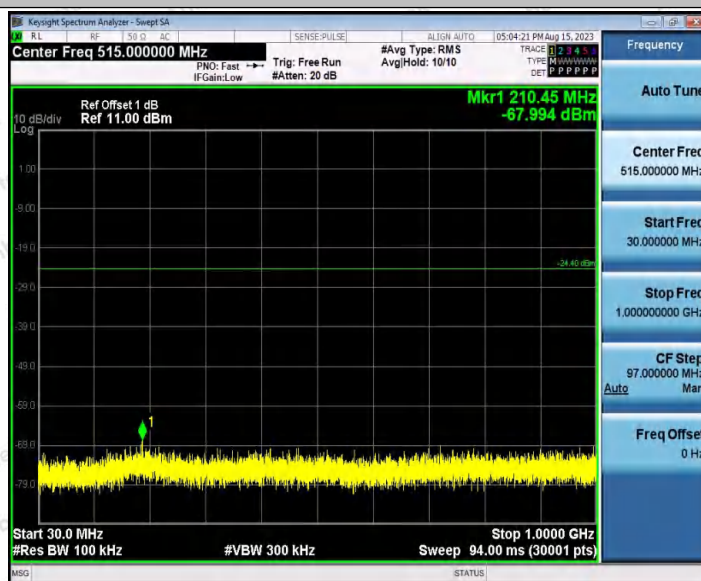
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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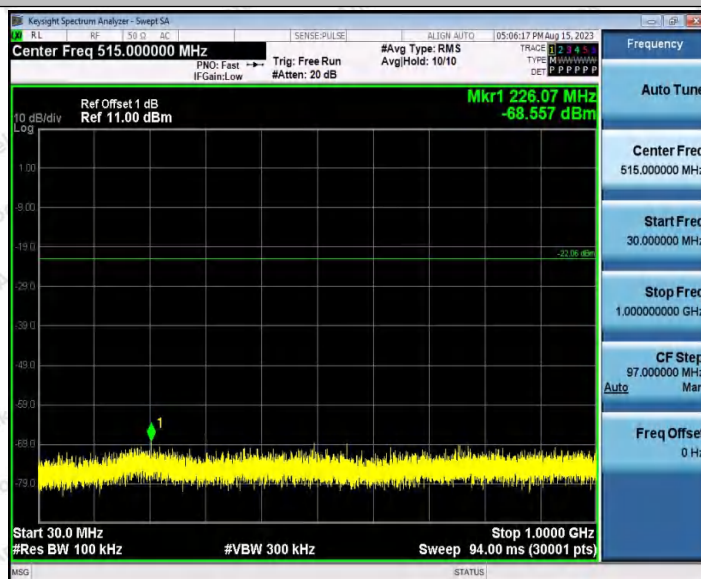


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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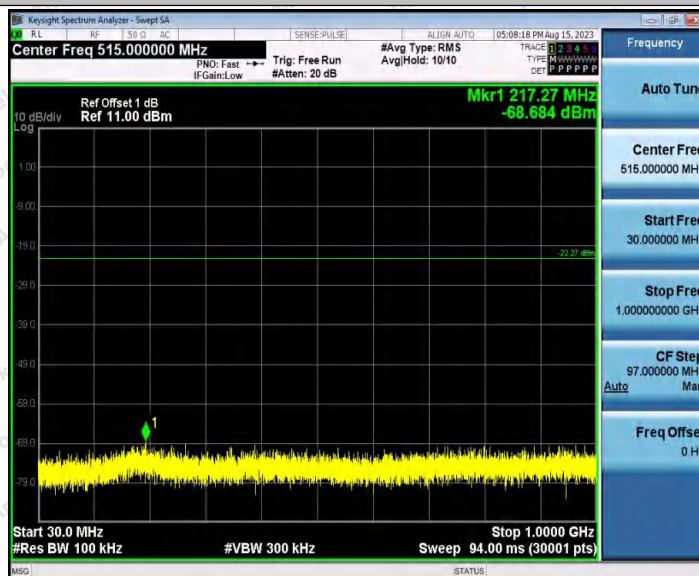
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

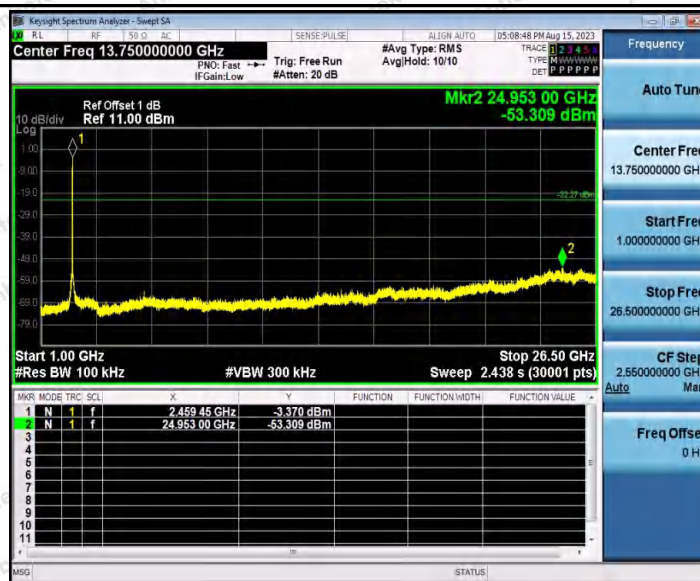
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11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

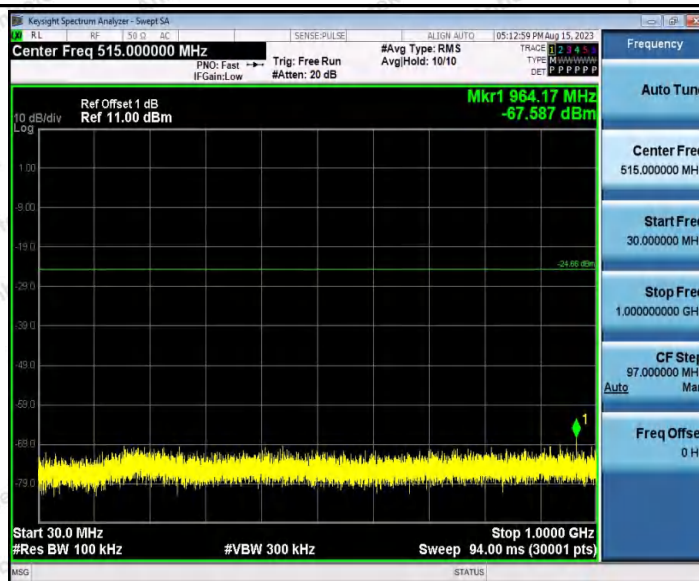
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



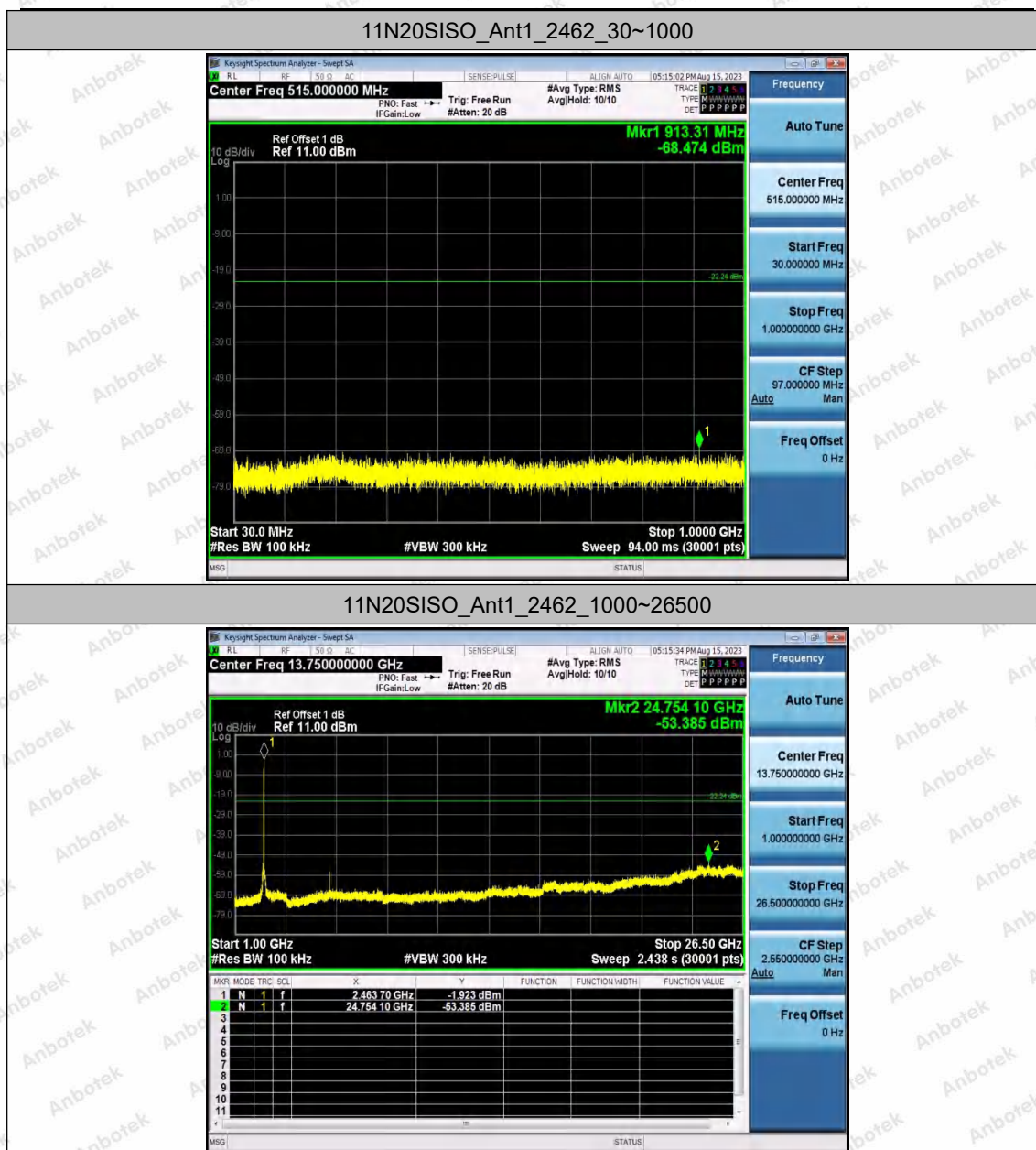
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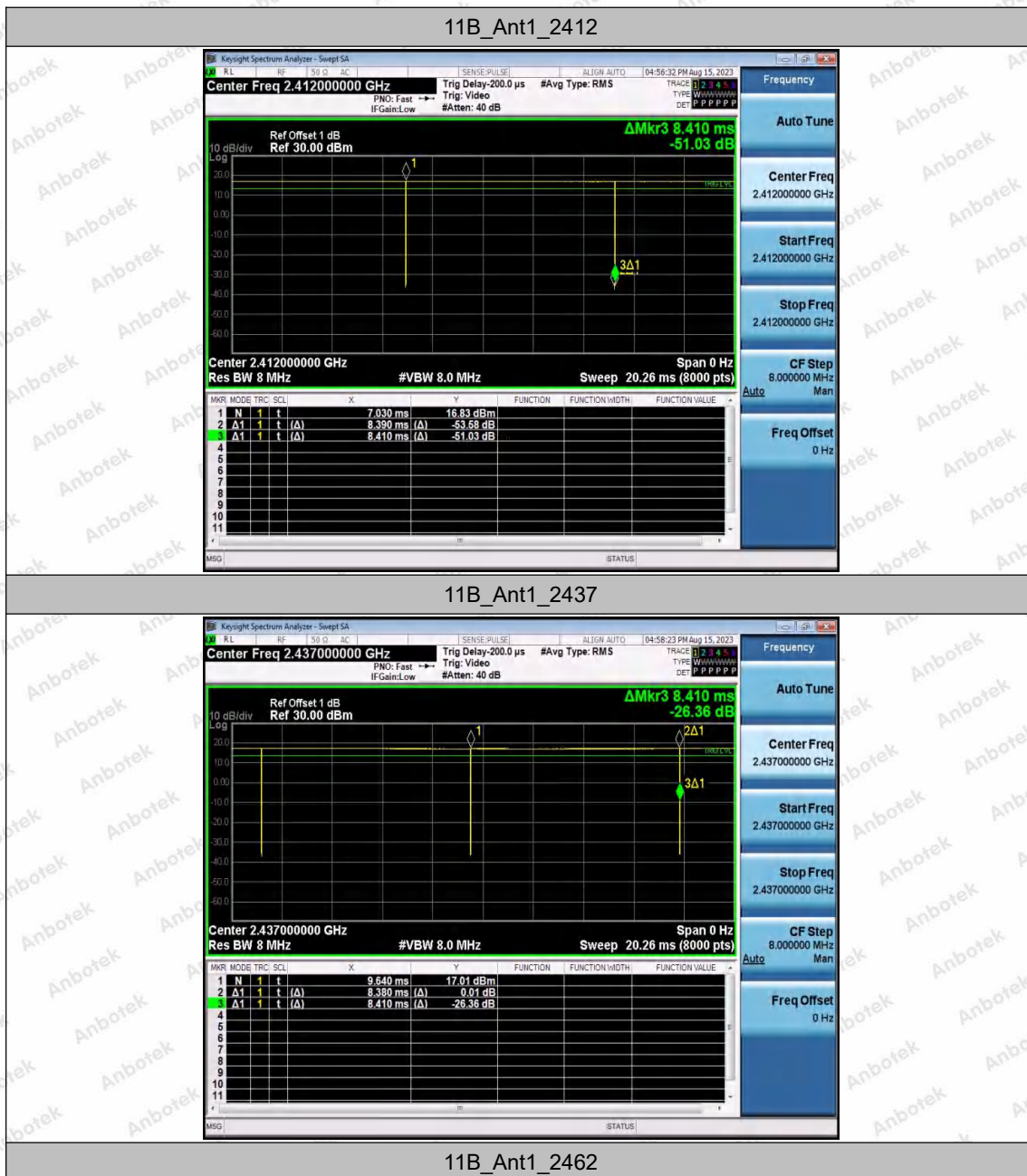
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.41	99.76	0.01
		2437	8.38	8.41	99.64	0.02
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.39	1.42	97.89	0.09
		2437	1.39	1.42	97.89	0.09
		2462	1.39	1.42	97.89	0.09
11N20SISO	Ant1	2412	1.29	1.33	96.99	0.13
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.33	97.74	0.10



Test Graphs



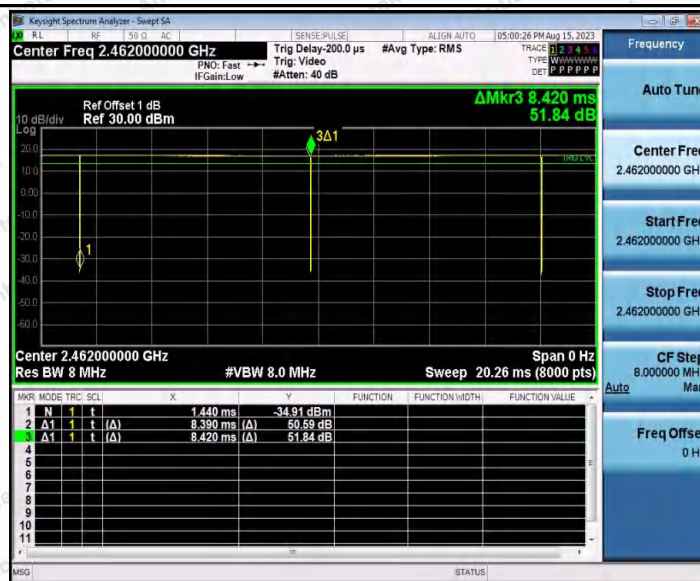
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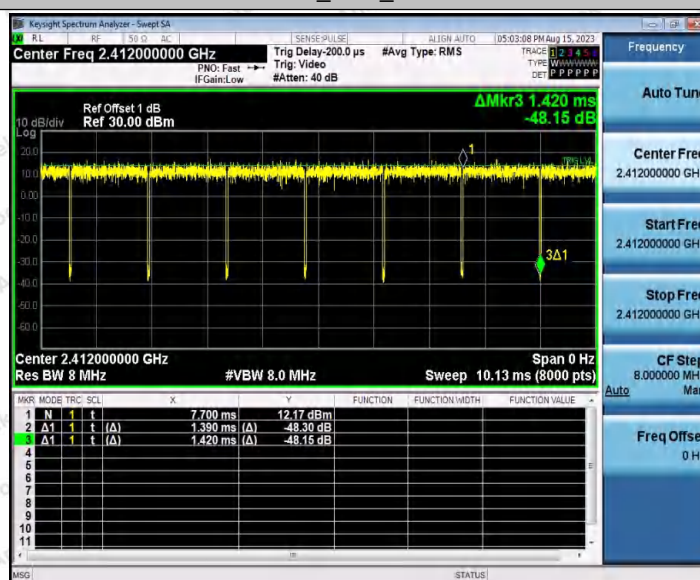


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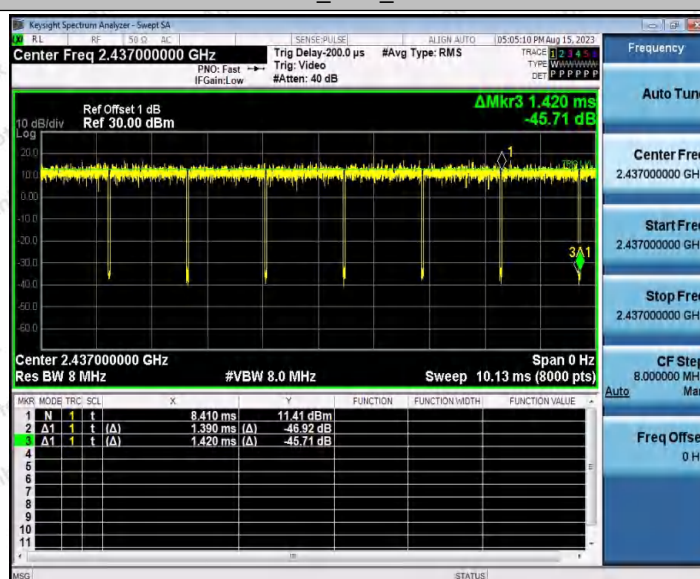




11G_Ant1_2412



11G_Ant1_2437



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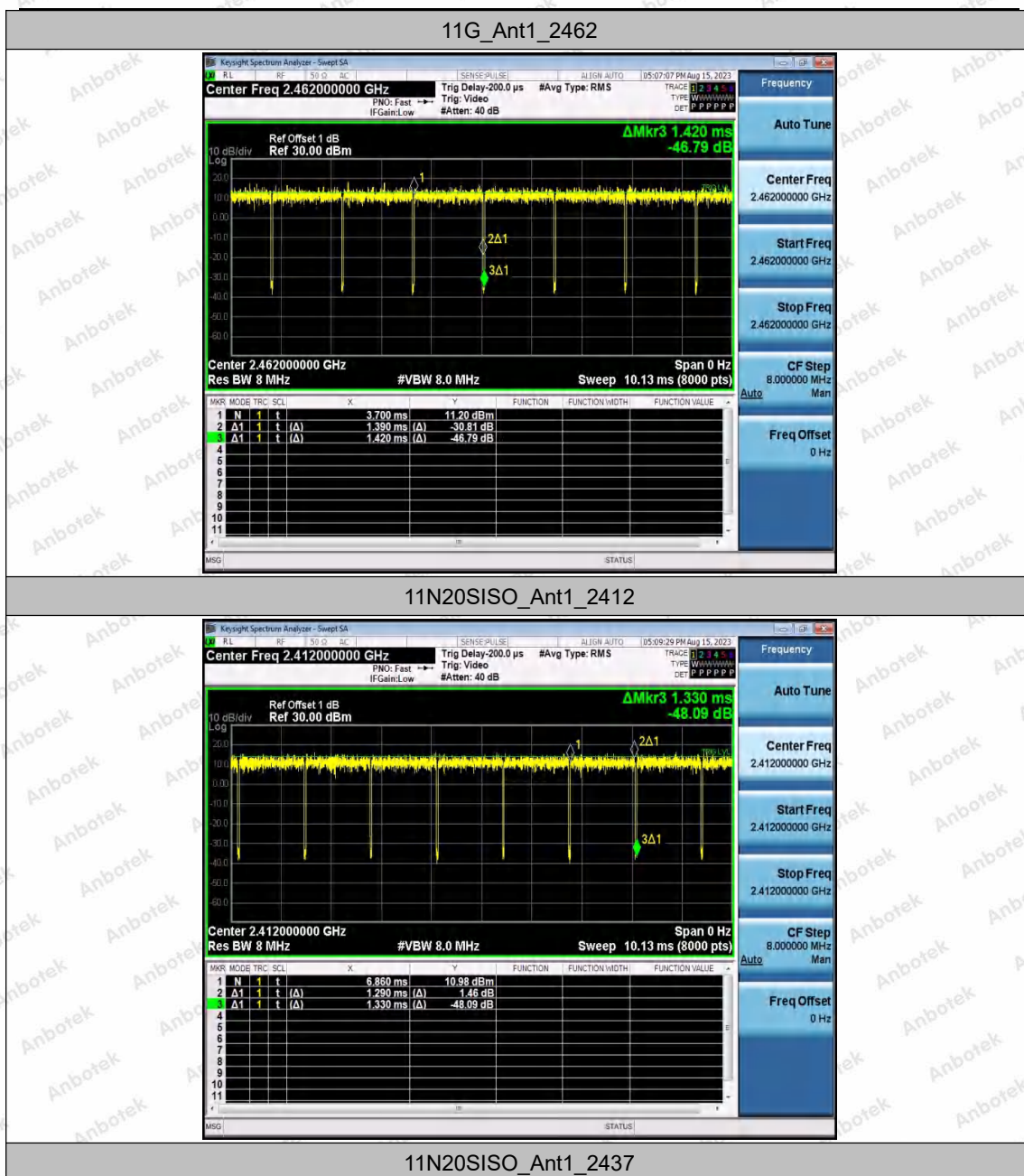


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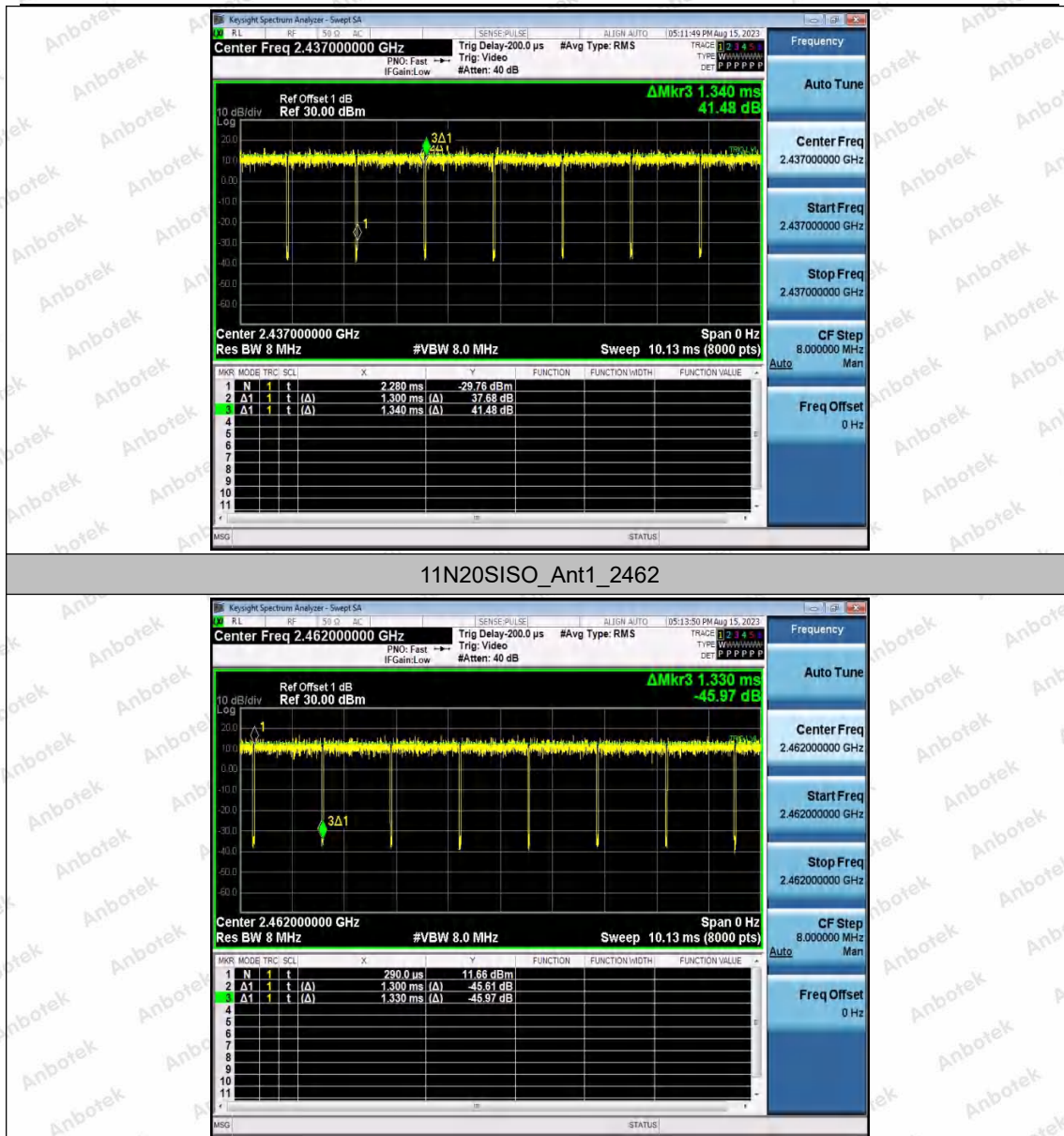
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