

Appendix Test Data

Report No.:	18220WC20200502	Test Sample No.:	1-2-2
Start Test Date:	2022.8.29	Finish Test Date:	2022.9.2
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.200	2407.480	2416.680	0.5	PASS
		2437	10.280	2431.840	2442.120	0.5	PASS
		2462	9.360	2457.240	2466.600	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.440	2428.760	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.160	2420.760	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.680	2453.160	2470.840	0.5	PASS

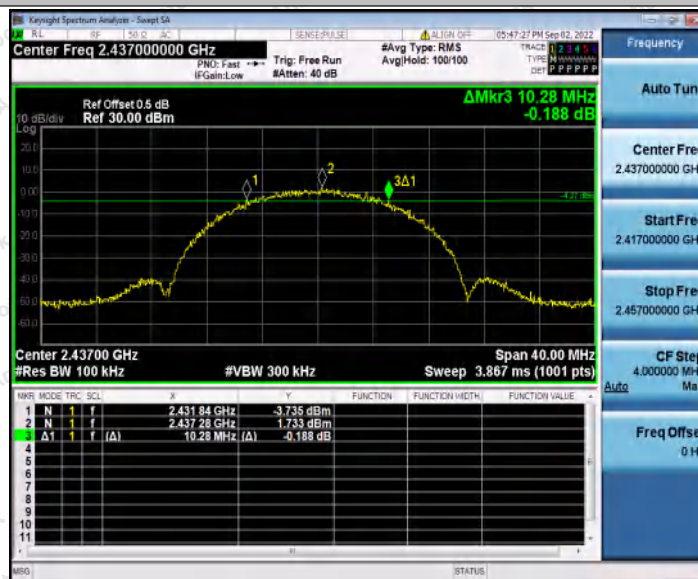


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

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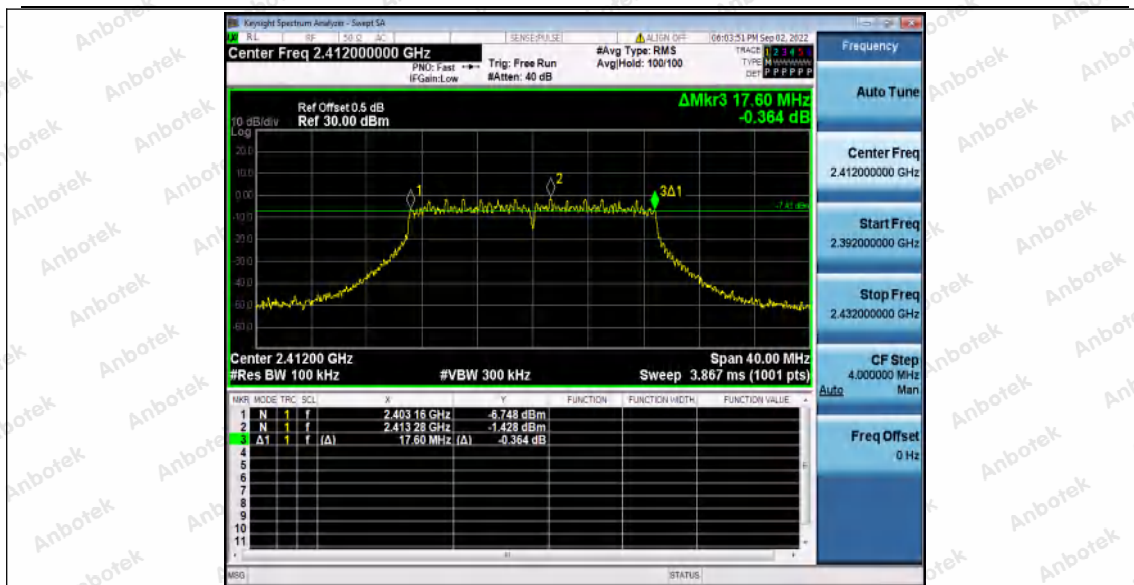


11G_Ant1_2462

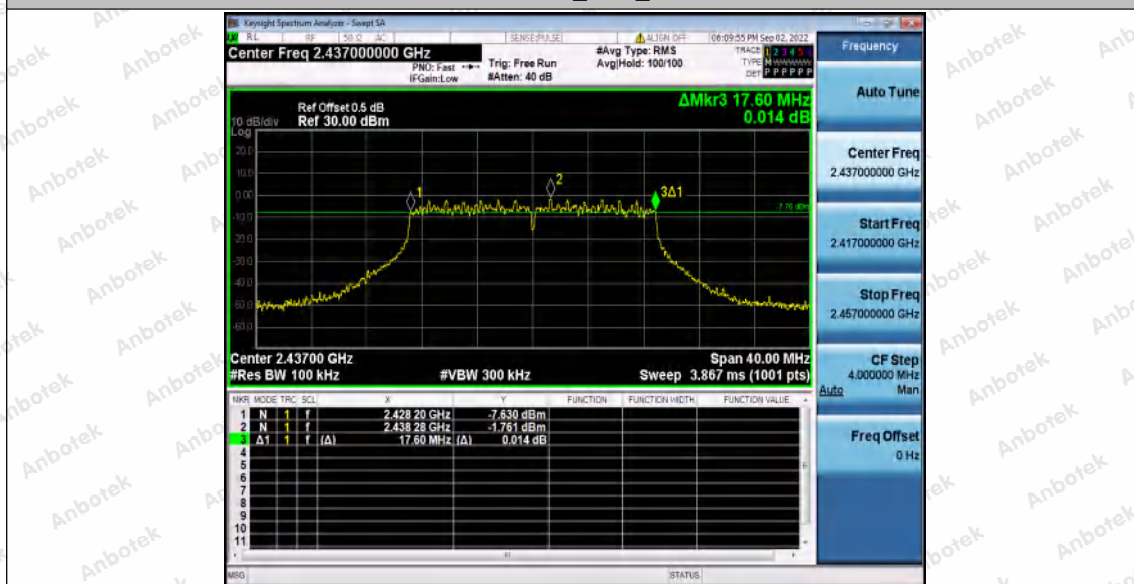


11N20SISO_Ant1_2412





11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

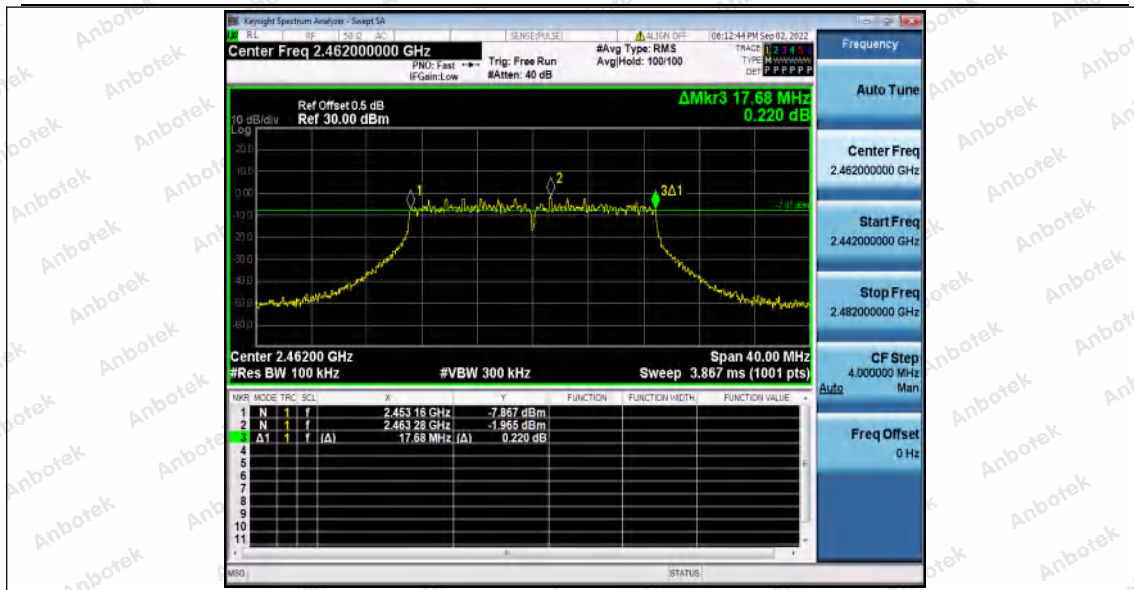
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Appendix B: Occupied Channel Bandwidth

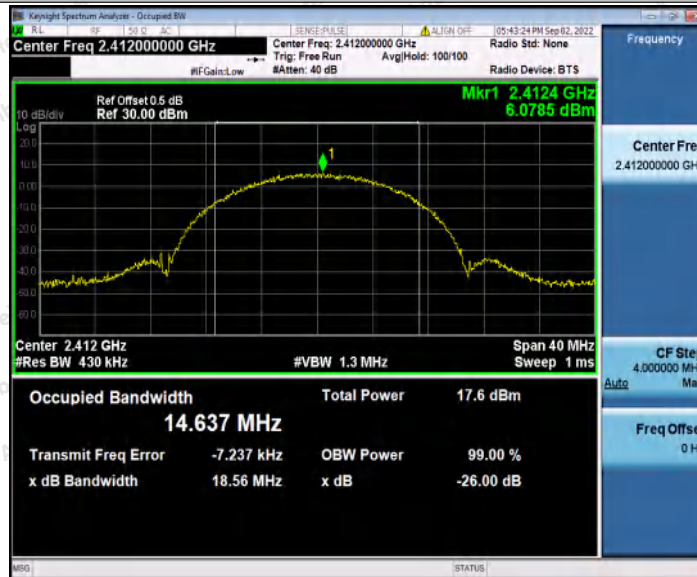
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.637	2404.6743	2419.3113
		2437	14.697	2429.6681	2444.3651
		2462	14.693	2454.6730	2469.3660
11G	Ant1	2412	16.866	2403.6544	2420.5204
		2437	16.972	2428.5857	2445.5577
		2462	17.087	2453.5415	2470.6285
11N20SISO	Ant1	2412	17.840	2403.0837	2420.9237
		2437	17.820	2428.1241	2445.9441
		2462	18.080	2452.9122	2470.9922

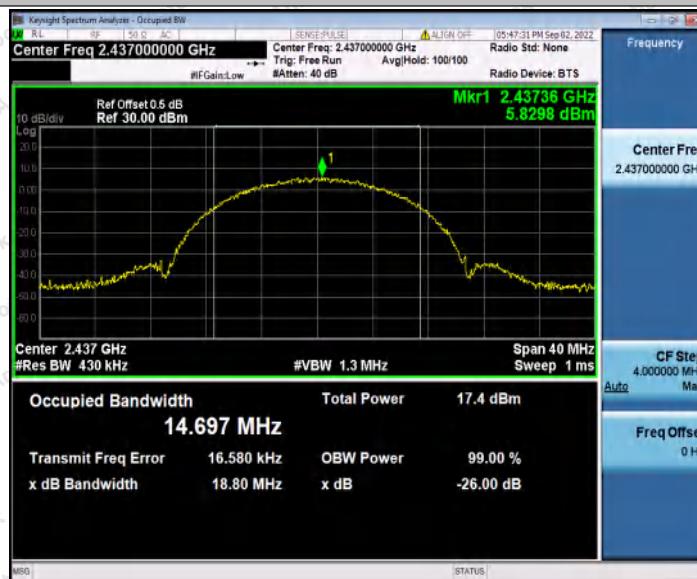


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

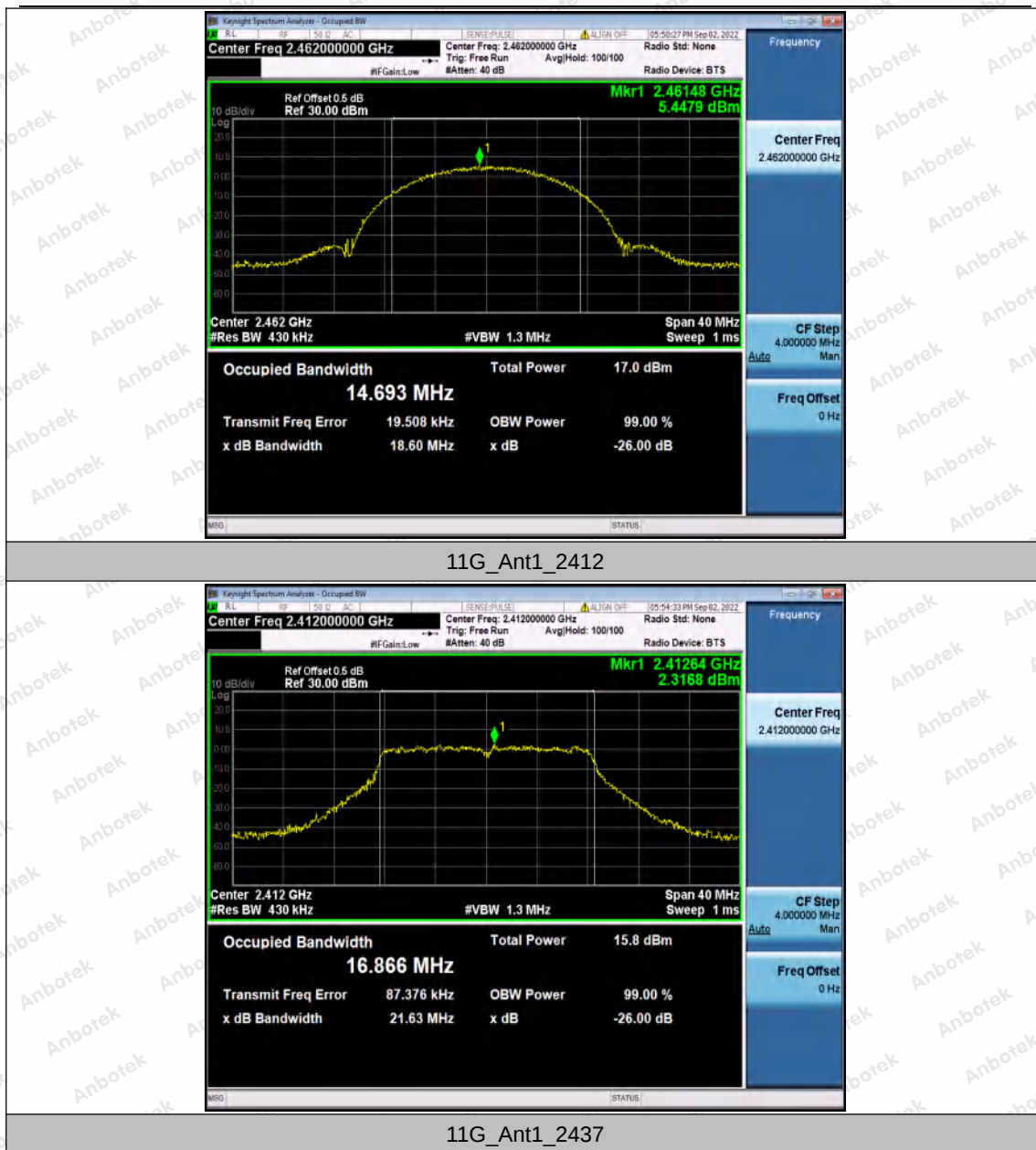
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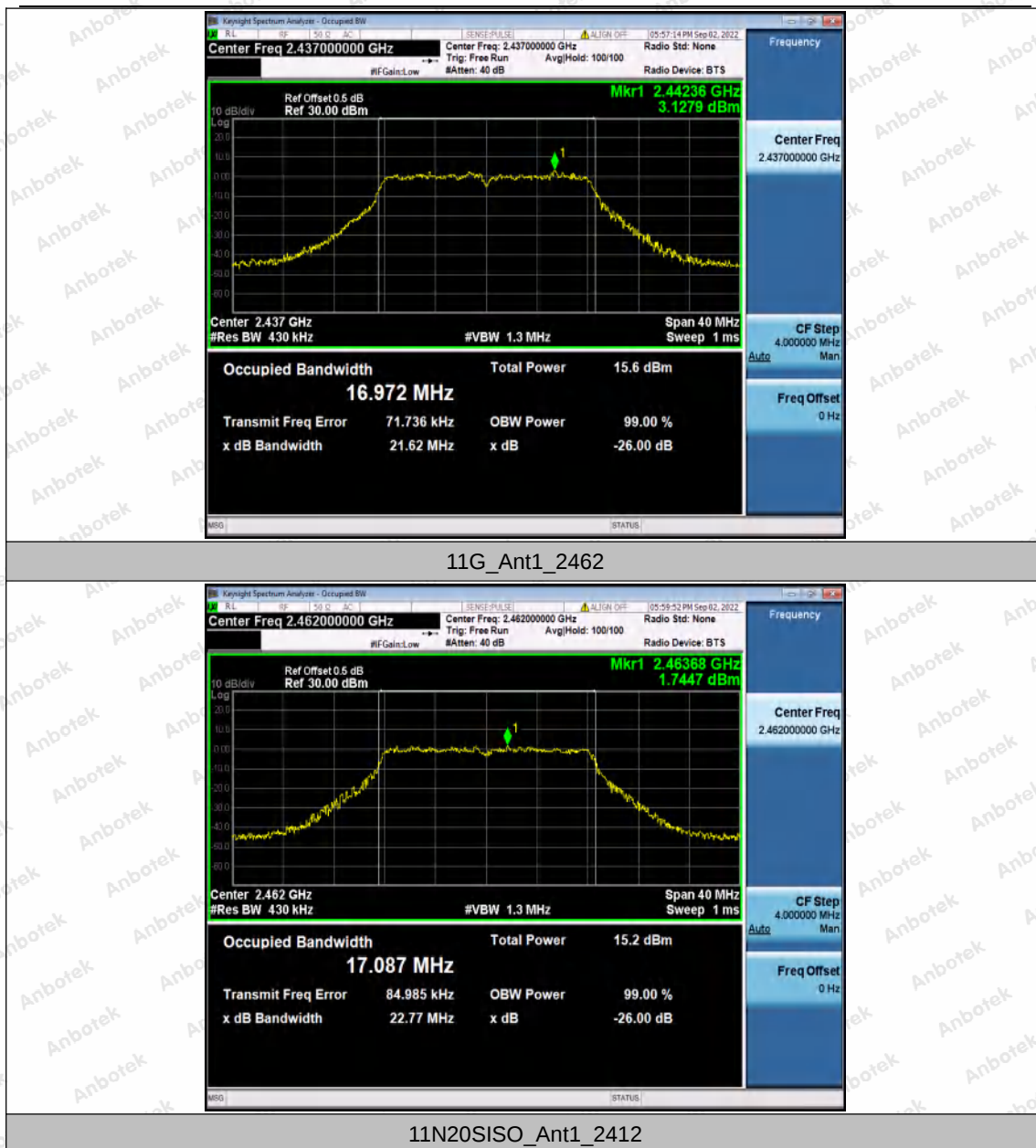
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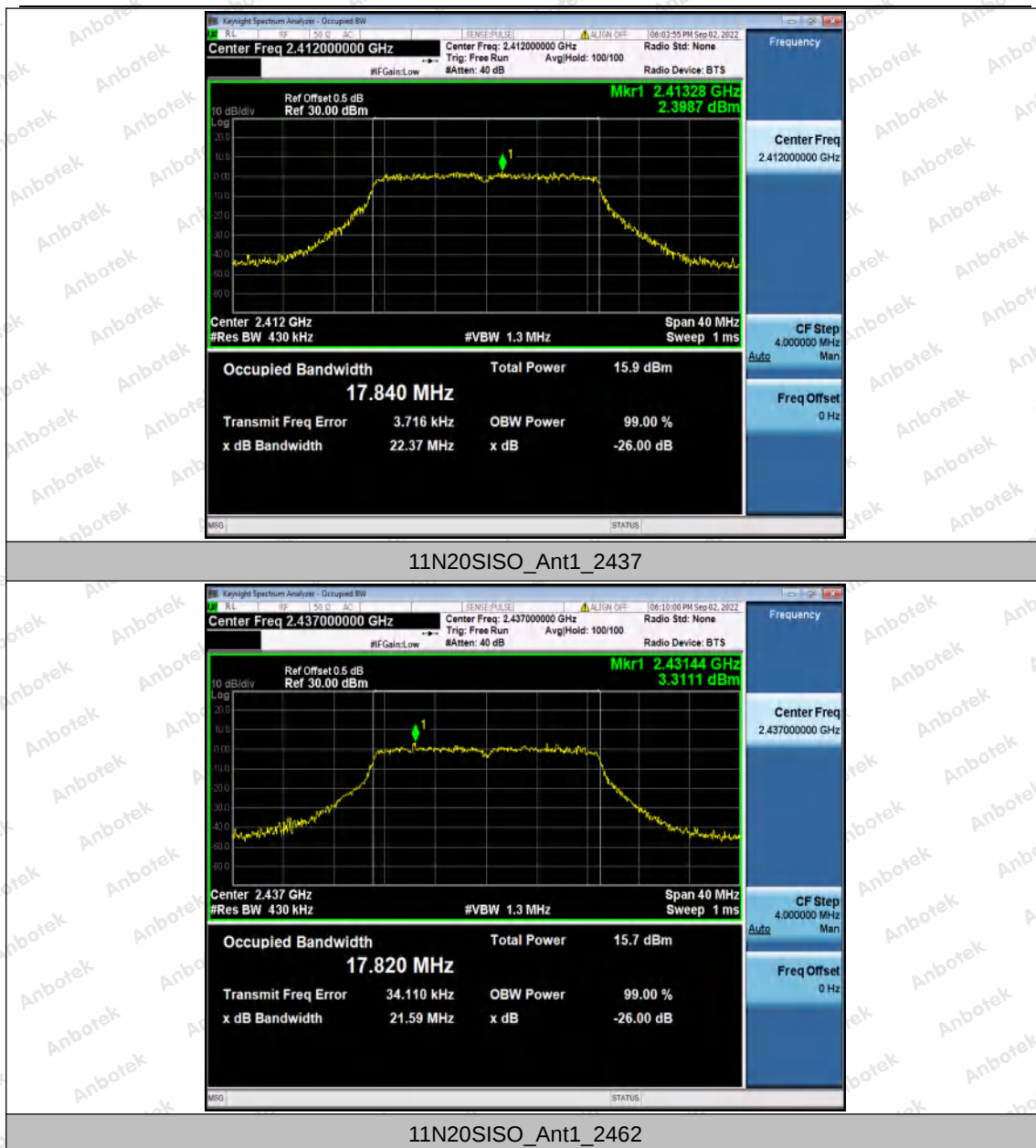
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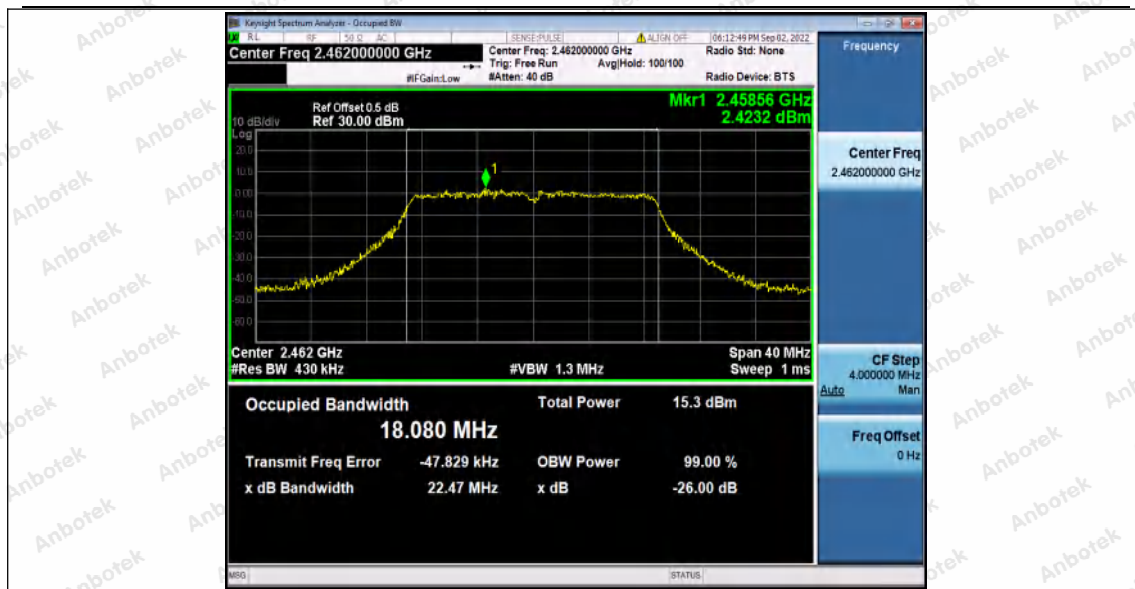
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.55	≤30.00	PASS
		2437	16.53	≤30.00	PASS
		2462	16.06	≤30.00	PASS
11G	Ant1	2412	16.60	≤30.00	PASS
		2437	16.13	≤30.00	PASS
		2462	15.98	≤30.00	PASS
11N20SISO	Ant1	2412	16.76	≤30.00	PASS
		2437	16.39	≤30.00	PASS
		2462	16.14	≤30.00	PASS



Appendix D: Maximum power spectral density

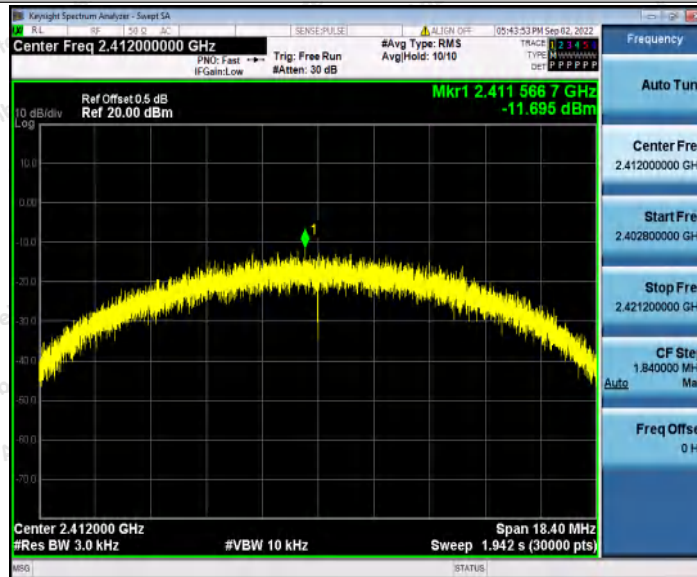
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.7	≤8.00	PASS
		2437	-12.53	≤8.00	PASS
		2462	-12.59	≤8.00	PASS
11G	Ant1	2412	-15.71	≤8.00	PASS
		2437	-16.12	≤8.00	PASS
		2462	-17.25	≤8.00	PASS
11N20SISO	Ant1	2412	-16.61	≤8.00	PASS
		2437	-15.49	≤8.00	PASS
		2462	-17.88	≤8.00	PASS

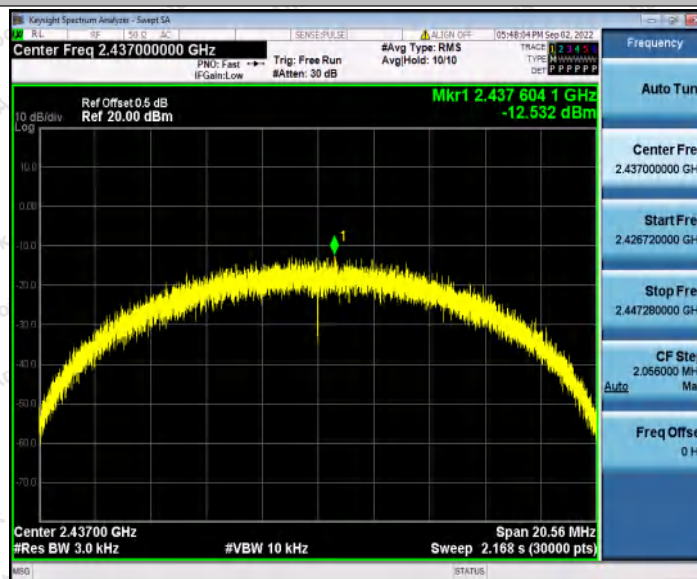


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

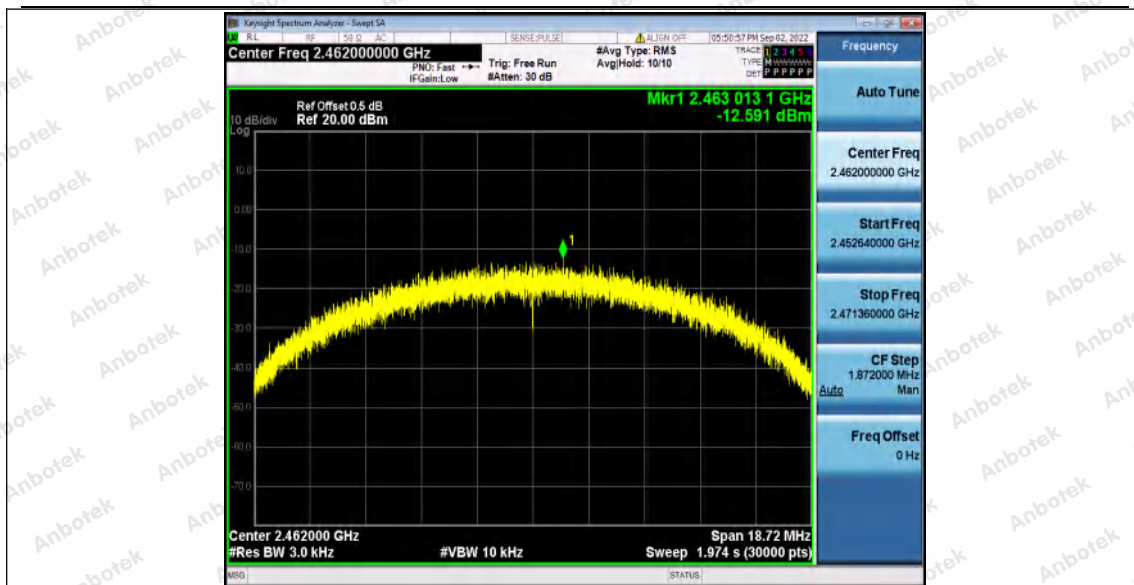
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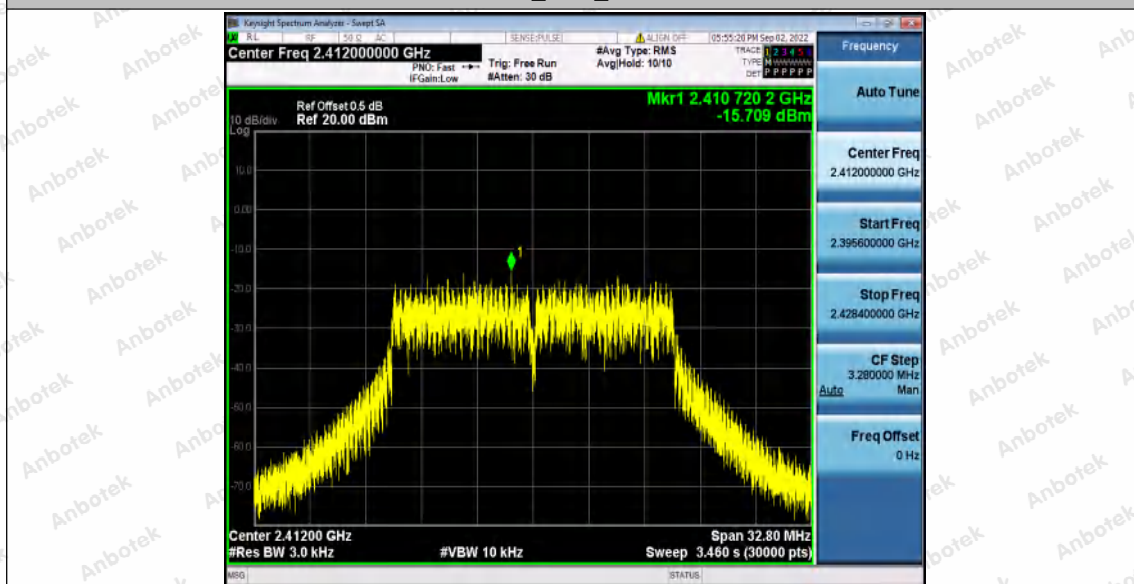


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11G_Ant1_2412



11G_Ant1_2437

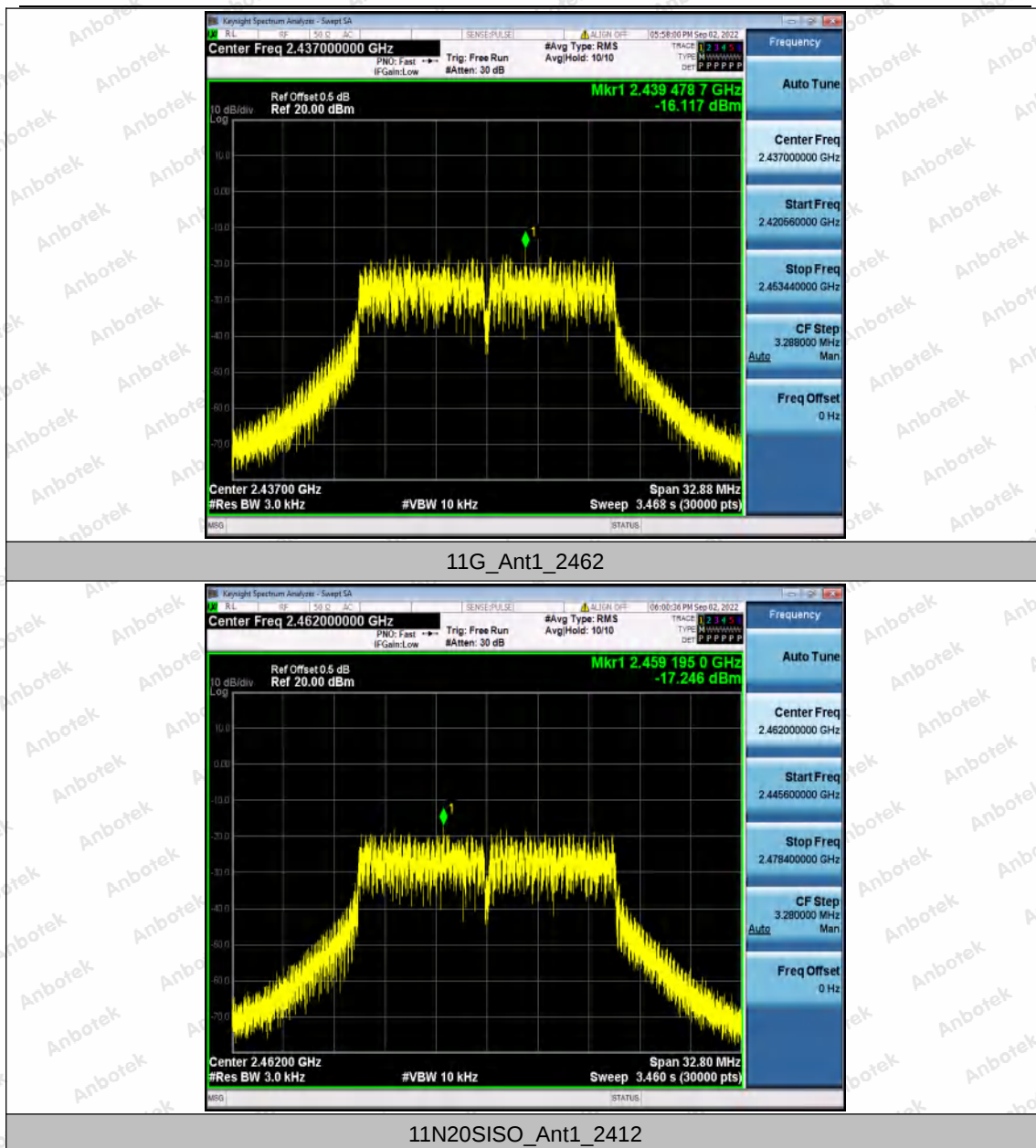
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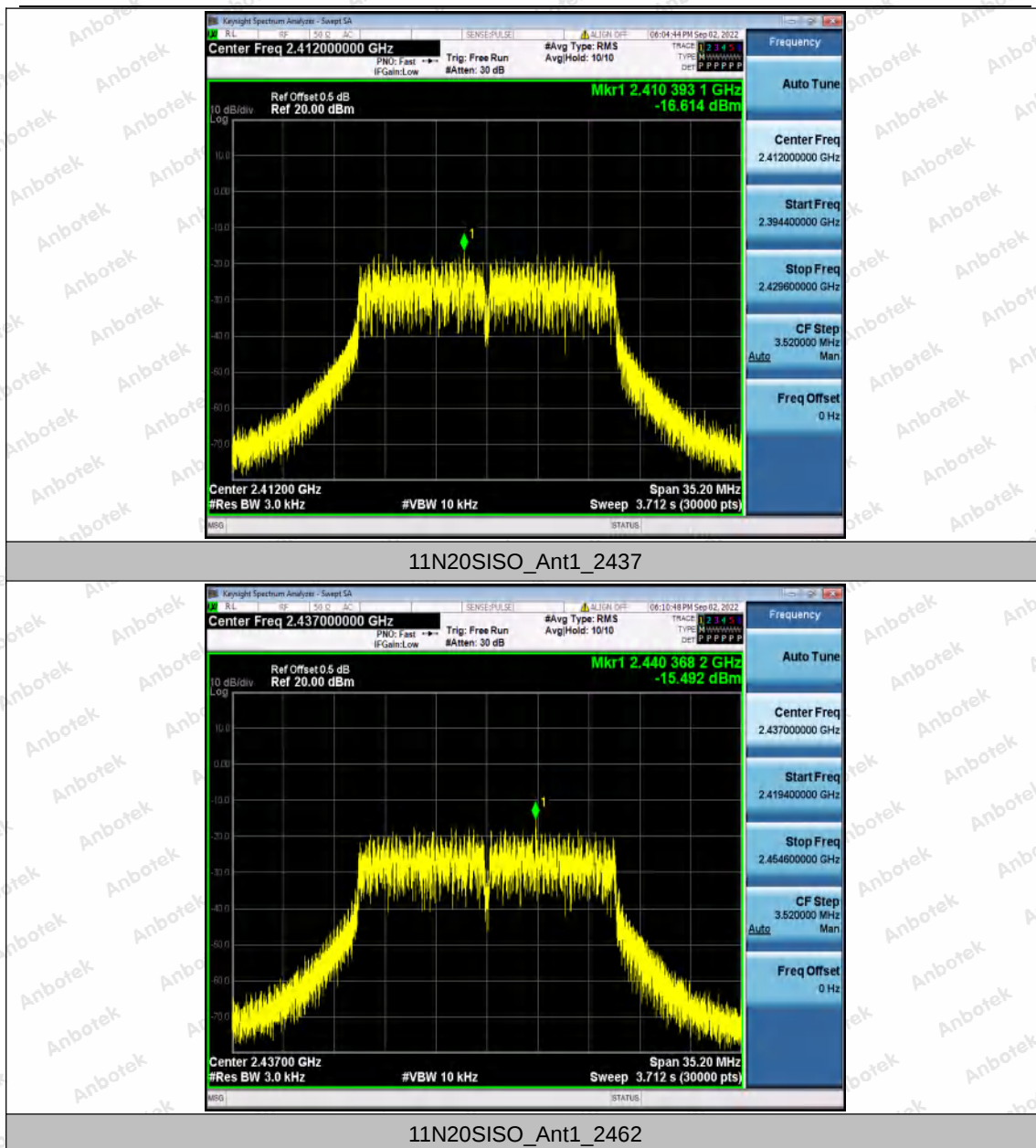
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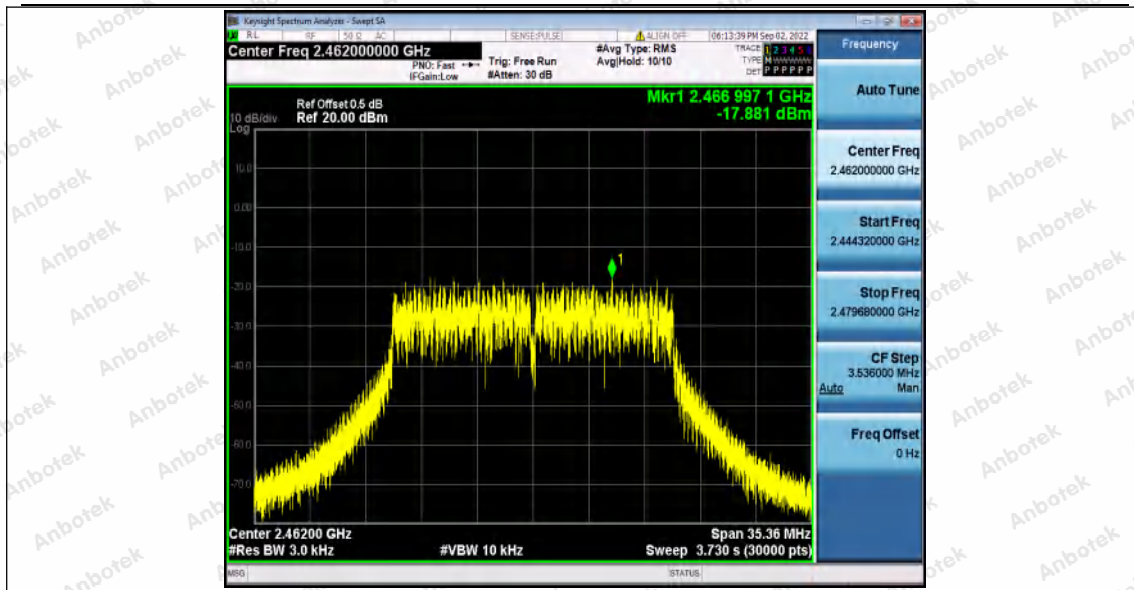
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Appendix E: Band edge measurements

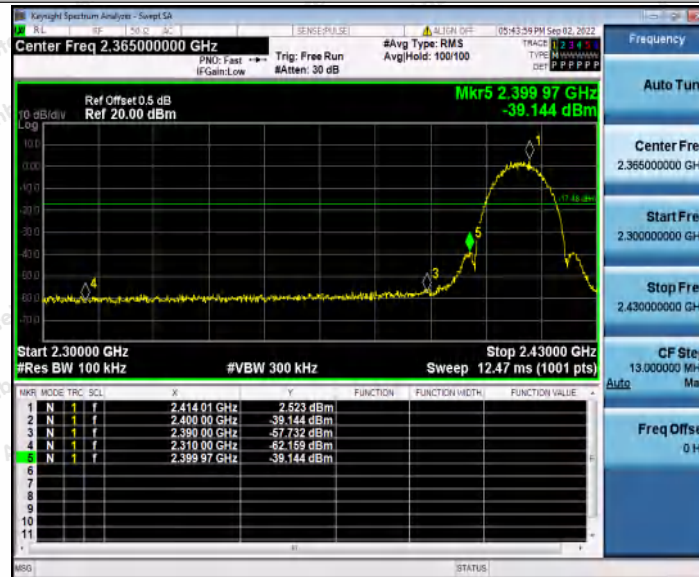
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.52	-39.14	≤-17.48	PASS
		High	2462	1.45	-56.58	≤-18.55	PASS
11G	Ant1	Low	2412	-1.82	-37.95	≤-21.82	PASS
		High	2462	-2.50	-55.99	≤-22.5	PASS
11N20SISO	Ant1	Low	2412	-1.42	-36.17	≤-21.42	PASS
		High	2462	-2.00	-55.85	≤-22	PASS

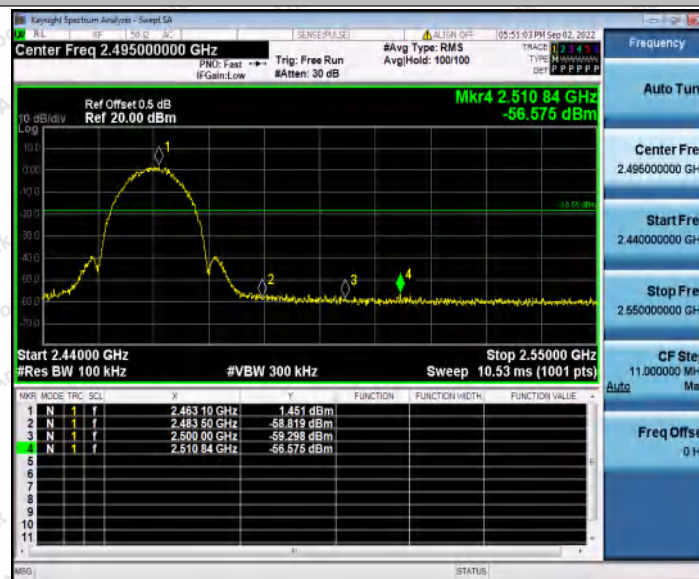


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

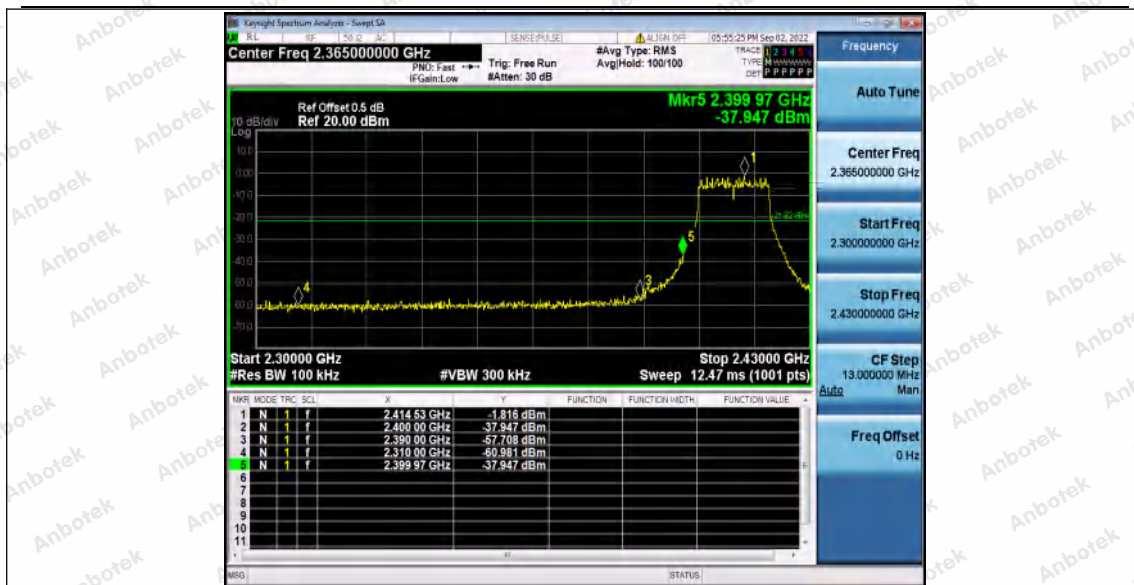
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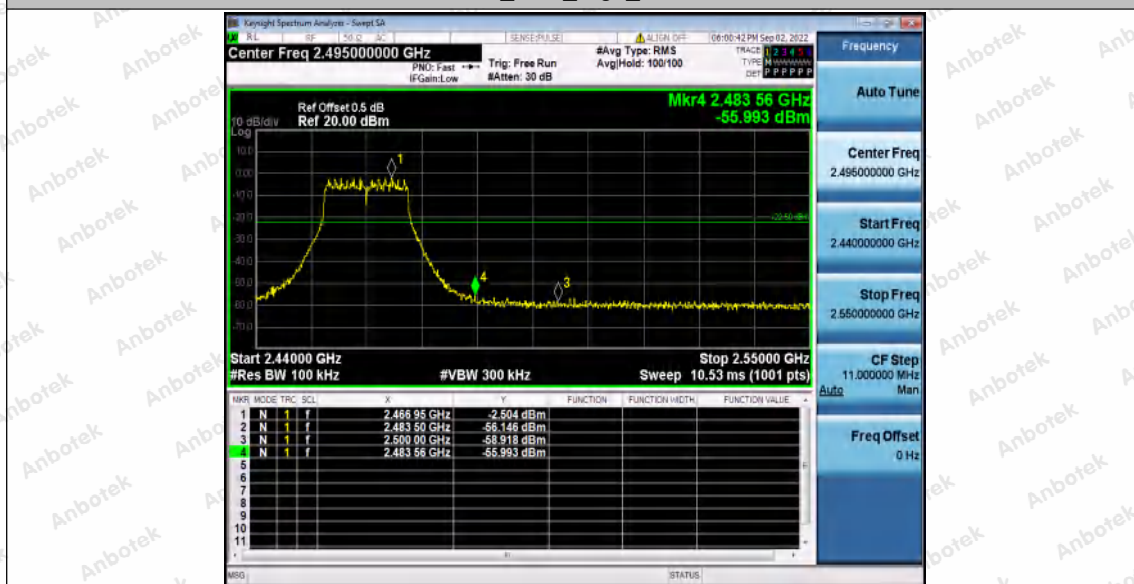


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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

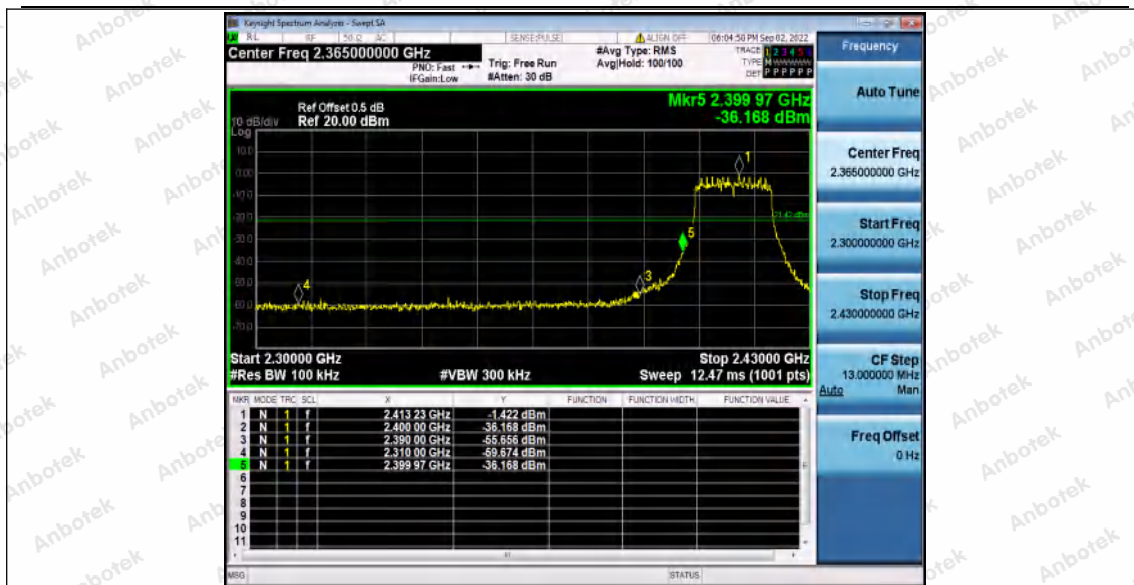
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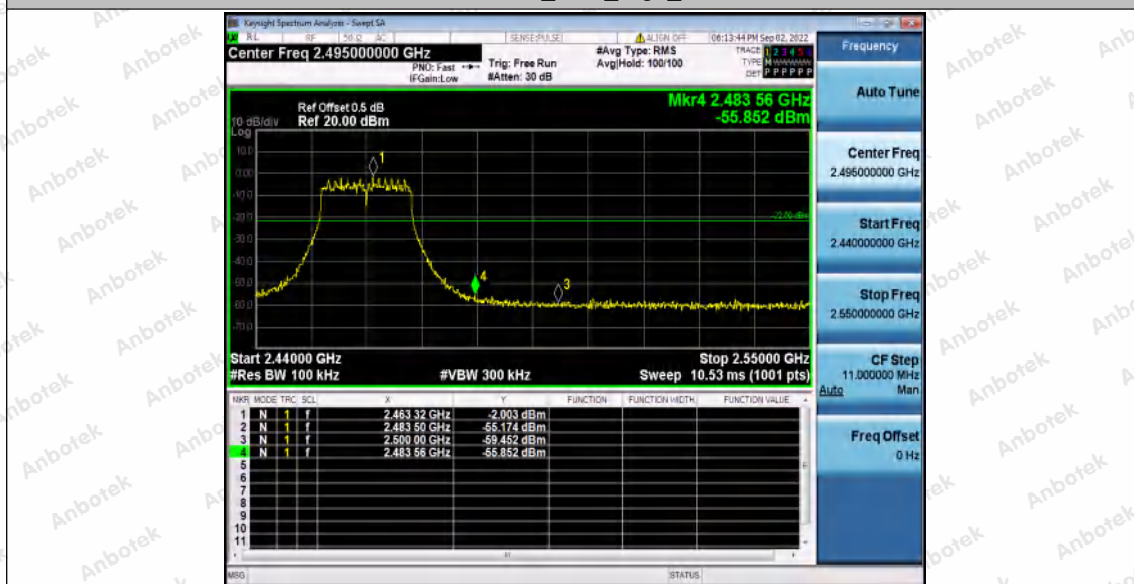


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11N20SISO_Ant1_High_2462



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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	1.83	1.83	---	PASS
			30~1000	1.83	-63.86	≤-28.17	PASS
			1000~26500	1.83	-54.7	≤-28.17	PASS
		2437	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-63.95	≤-27.75	PASS
			1000~26500	2.25	-53.72	≤-27.75	PASS
		2462	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-65.45	≤-29.45	PASS
			1000~26500	0.55	-53.79	≤-29.45	PASS
11G	Ant1	2412	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-62.05	≤-32.49	PASS
			1000~26500	-2.49	-53.94	≤-32.49	PASS
		2437	Reference	-2.52	-2.52	---	PASS
			30~1000	-2.52	-62.8	≤-32.52	PASS
			1000~26500	-2.52	-54.4	≤-32.52	PASS
		2462	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-63.83	≤-32.63	PASS
			1000~26500	-2.63	-53.55	≤-32.63	PASS
11N20SISO	Ant1	2412	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-61.37	≤-31.64	PASS
			1000~26500	-1.64	-53.66	≤-31.64	PASS
		2437	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-62.26	≤-31.74	PASS
			1000~26500	-1.74	-54.6	≤-31.74	PASS
		2462	Reference	-3.08	-3.08	---	PASS
			30~1000	-3.08	-63.13	≤-33.08	PASS
			1000~26500	-3.08	-53.5	≤-33.08	PASS

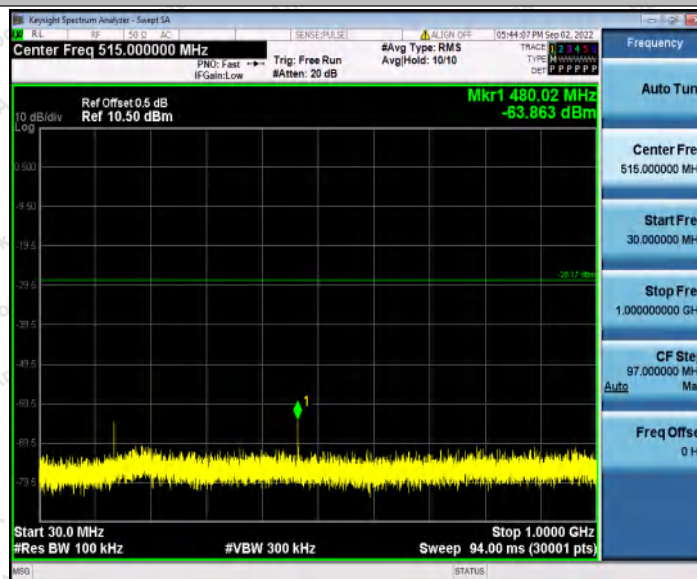


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

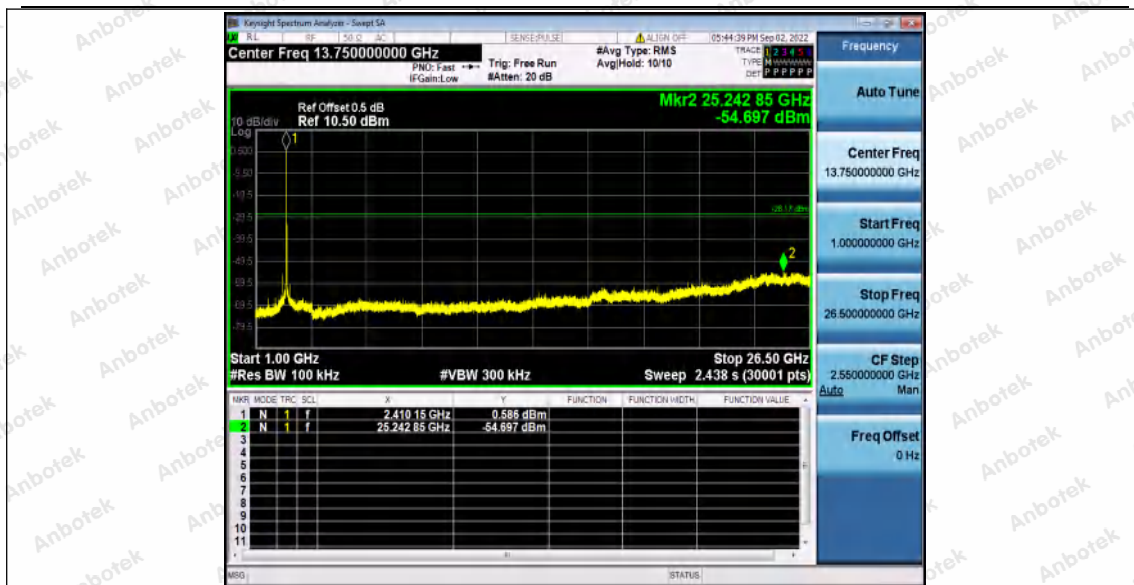
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

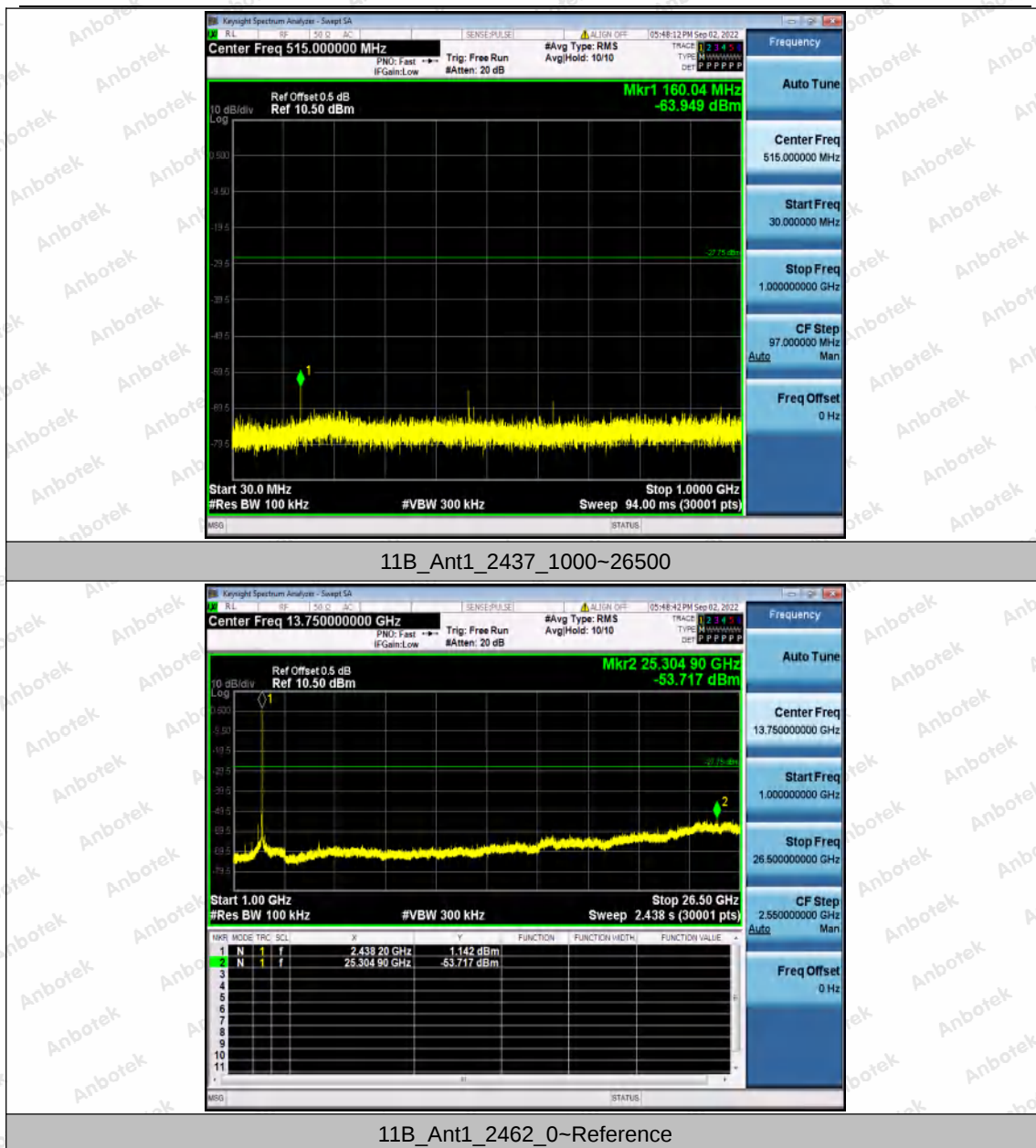
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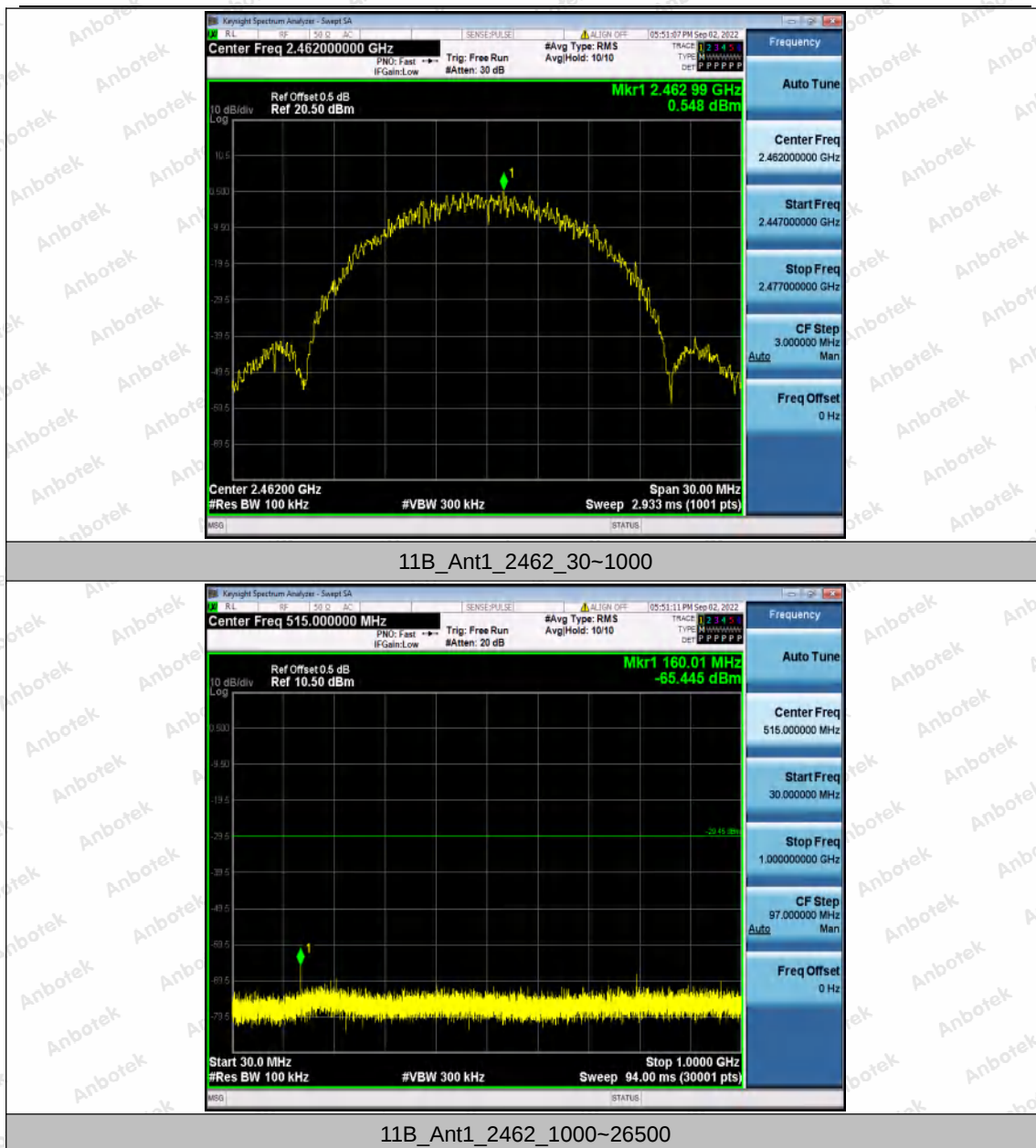
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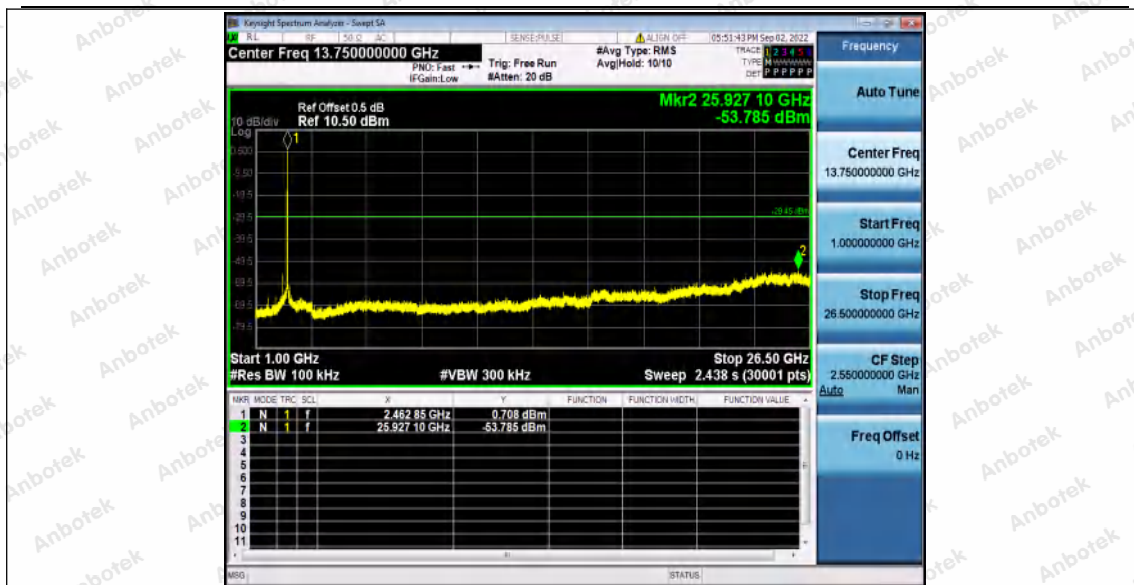
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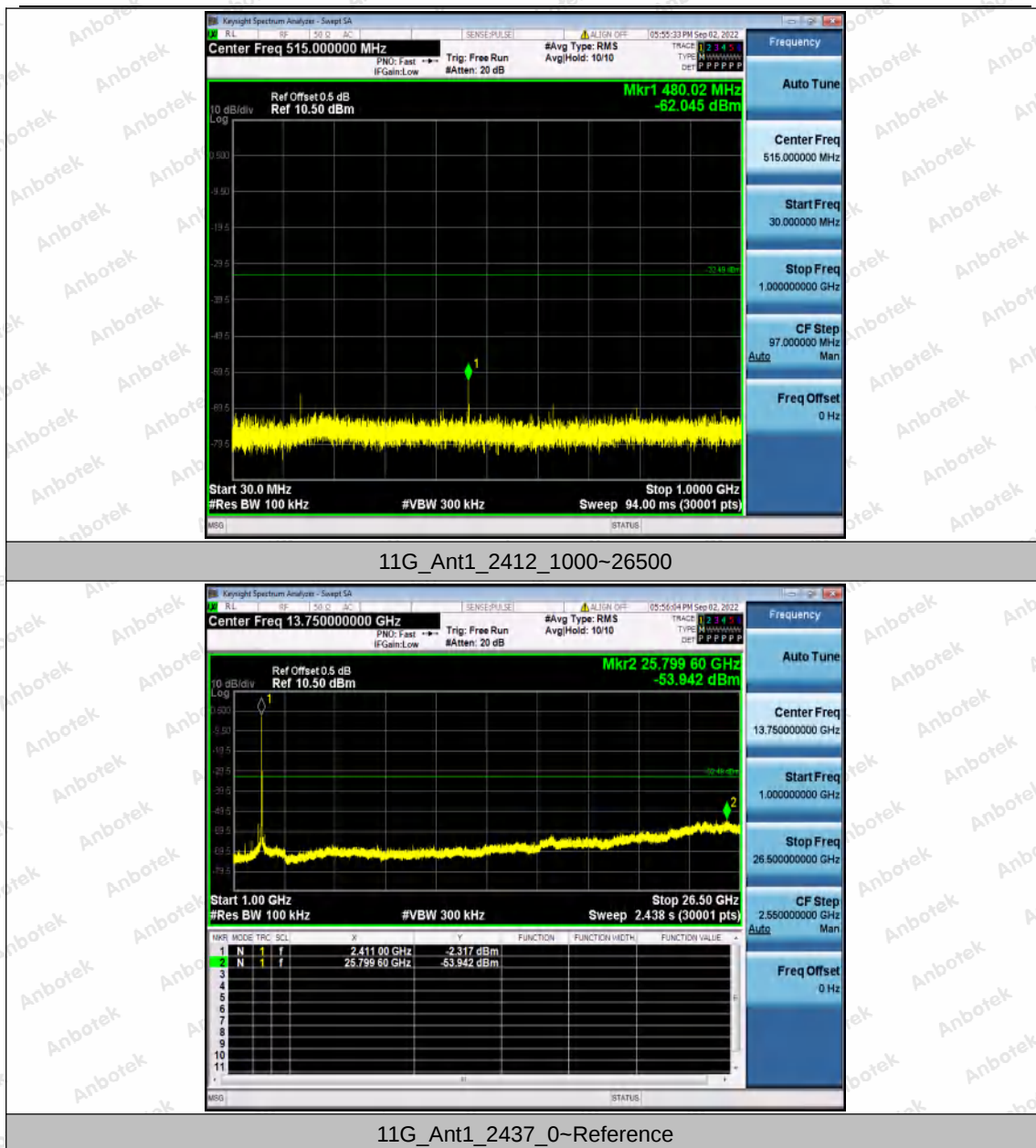


11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000





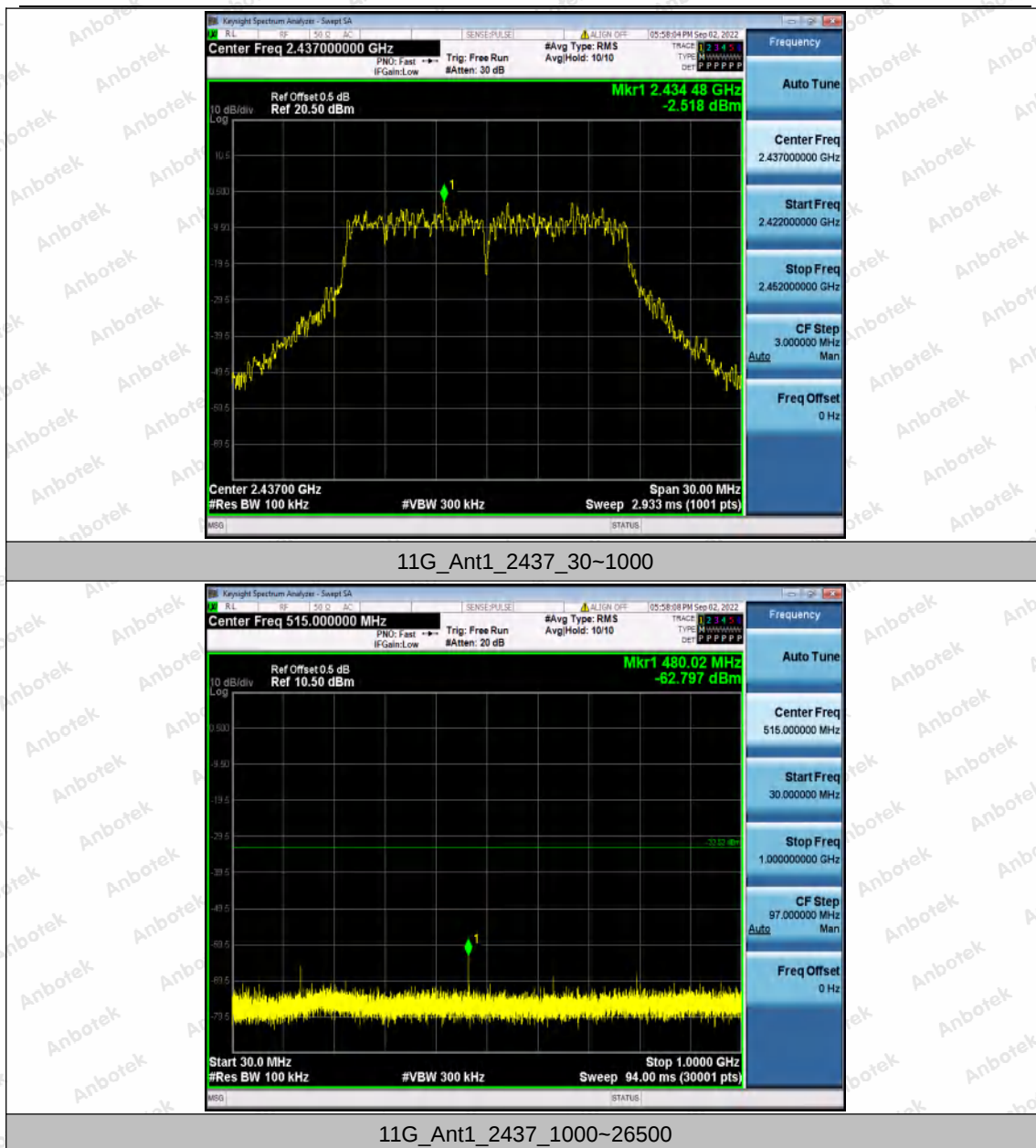
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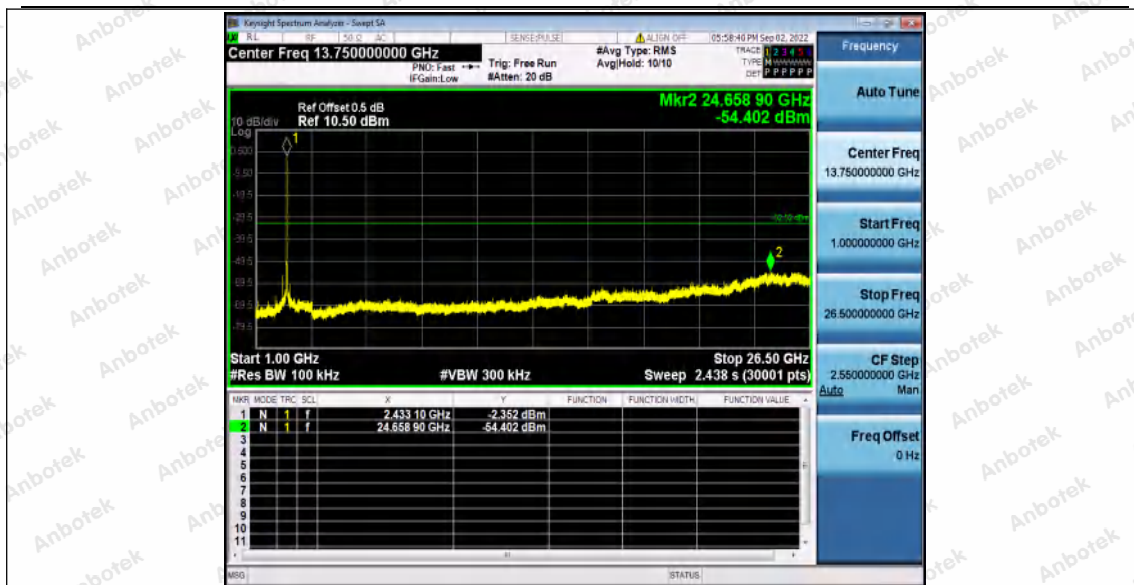
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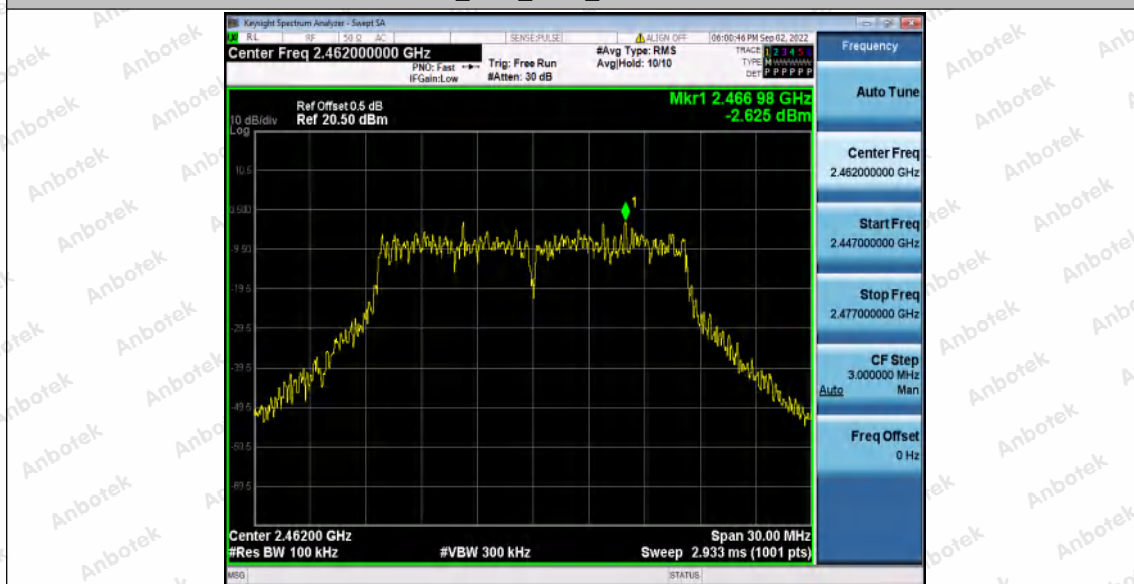


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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

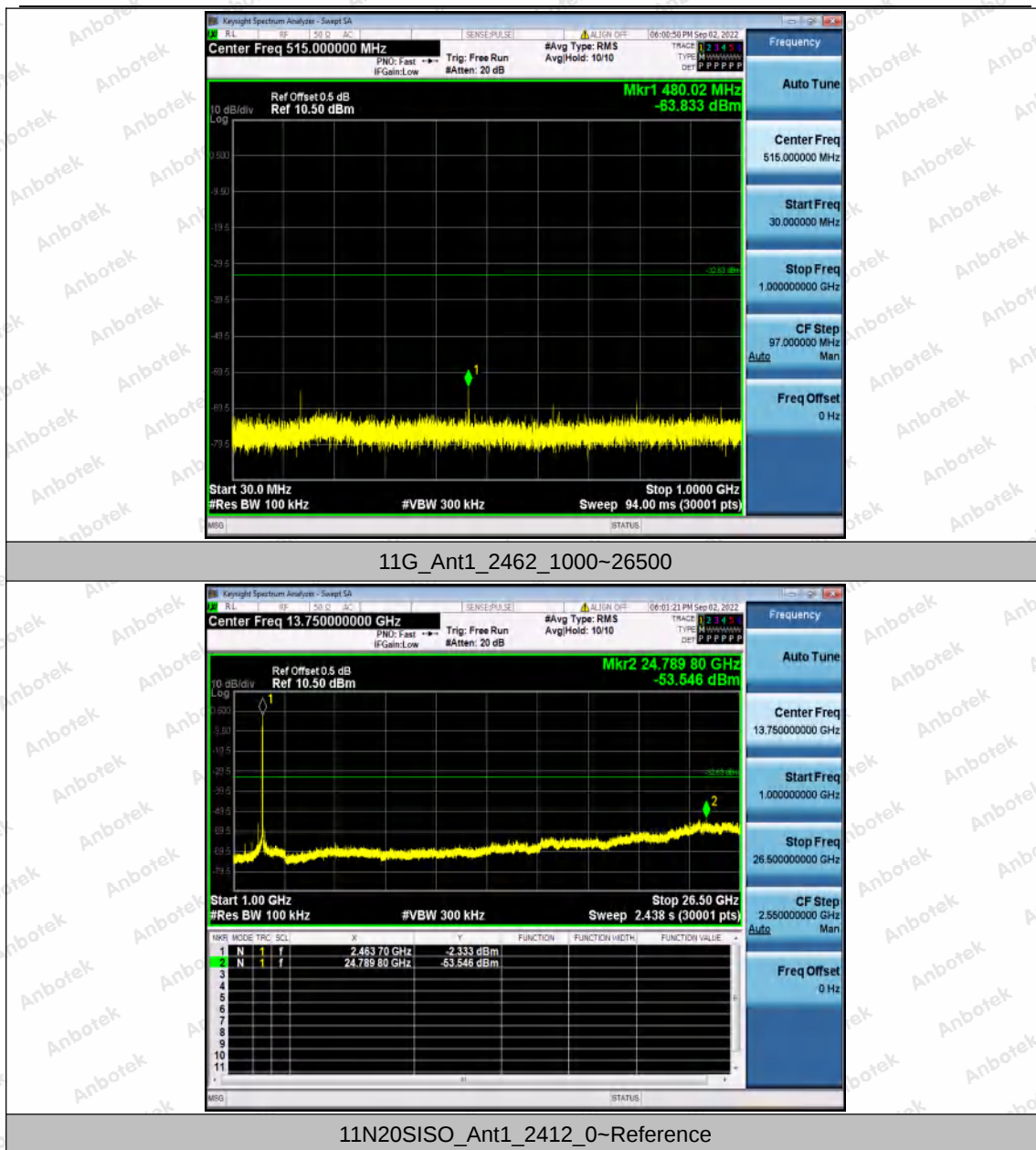
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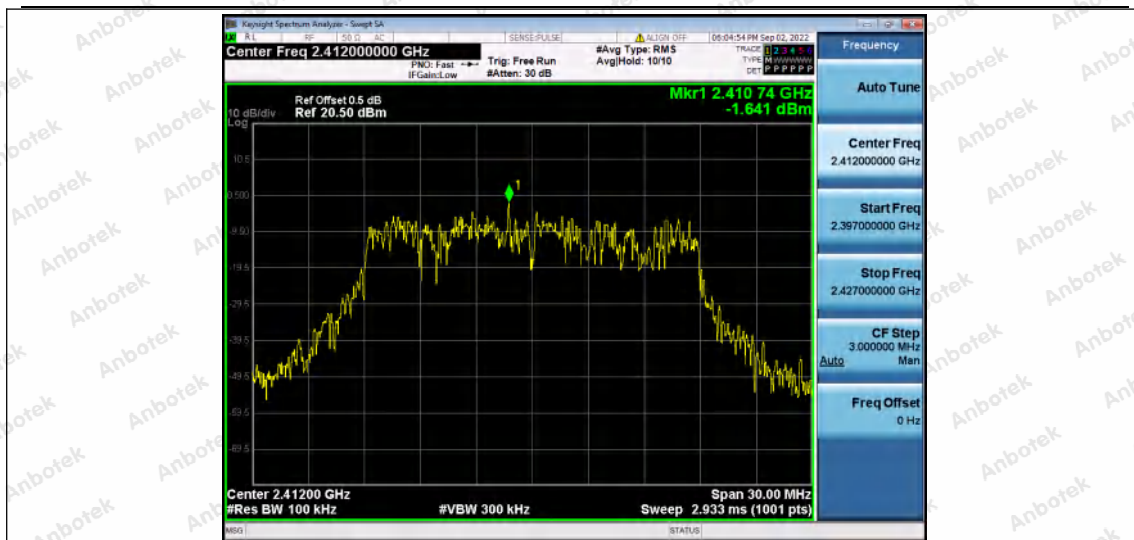
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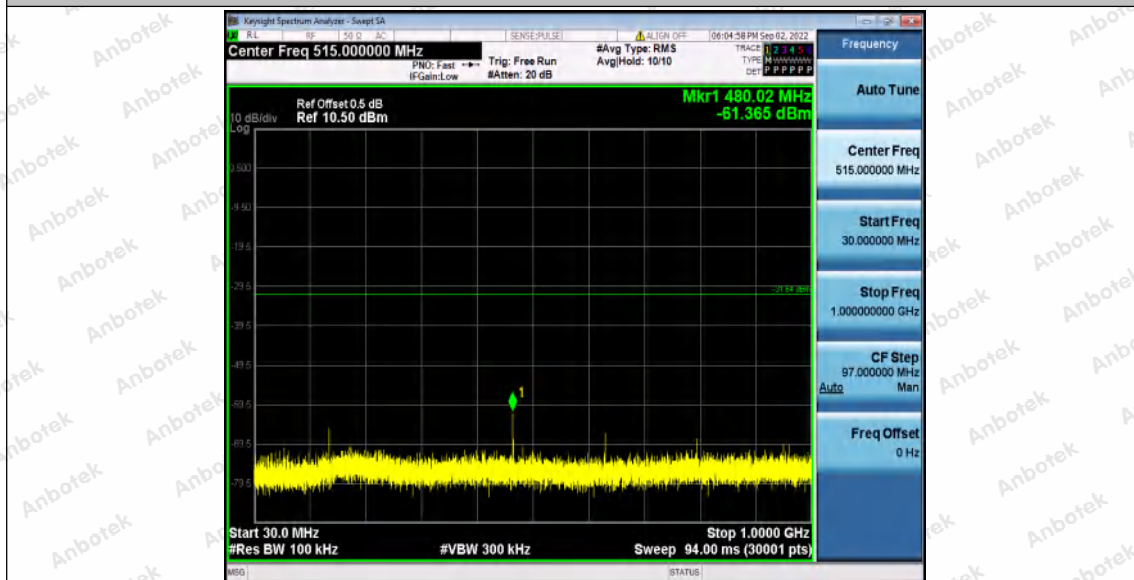


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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

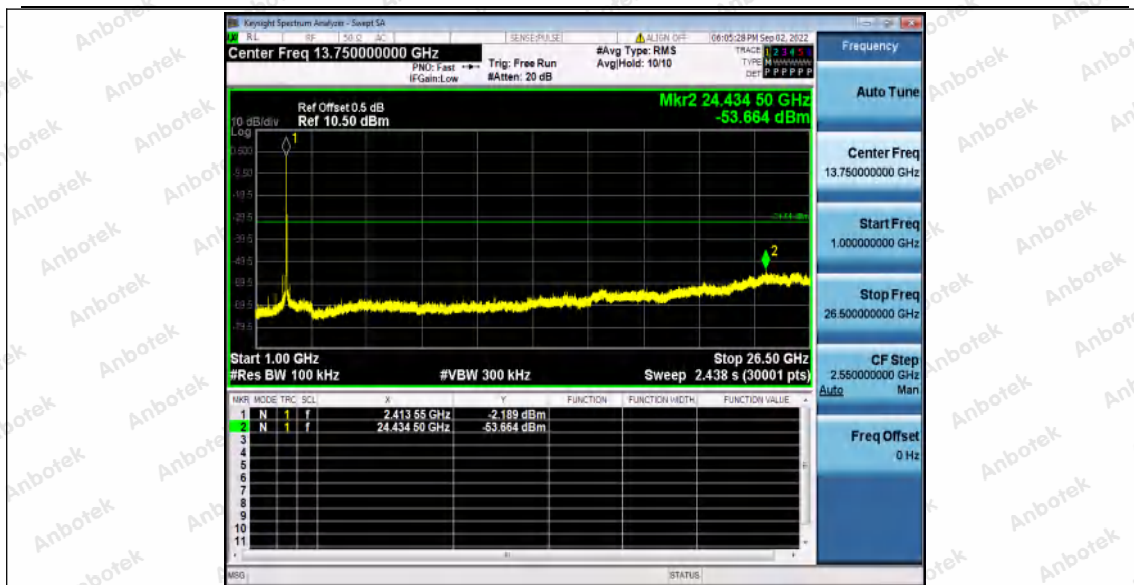
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11N20SISO_Ant1_2437_0-Reference



11N20SISO_Ant1_2437_30-1000

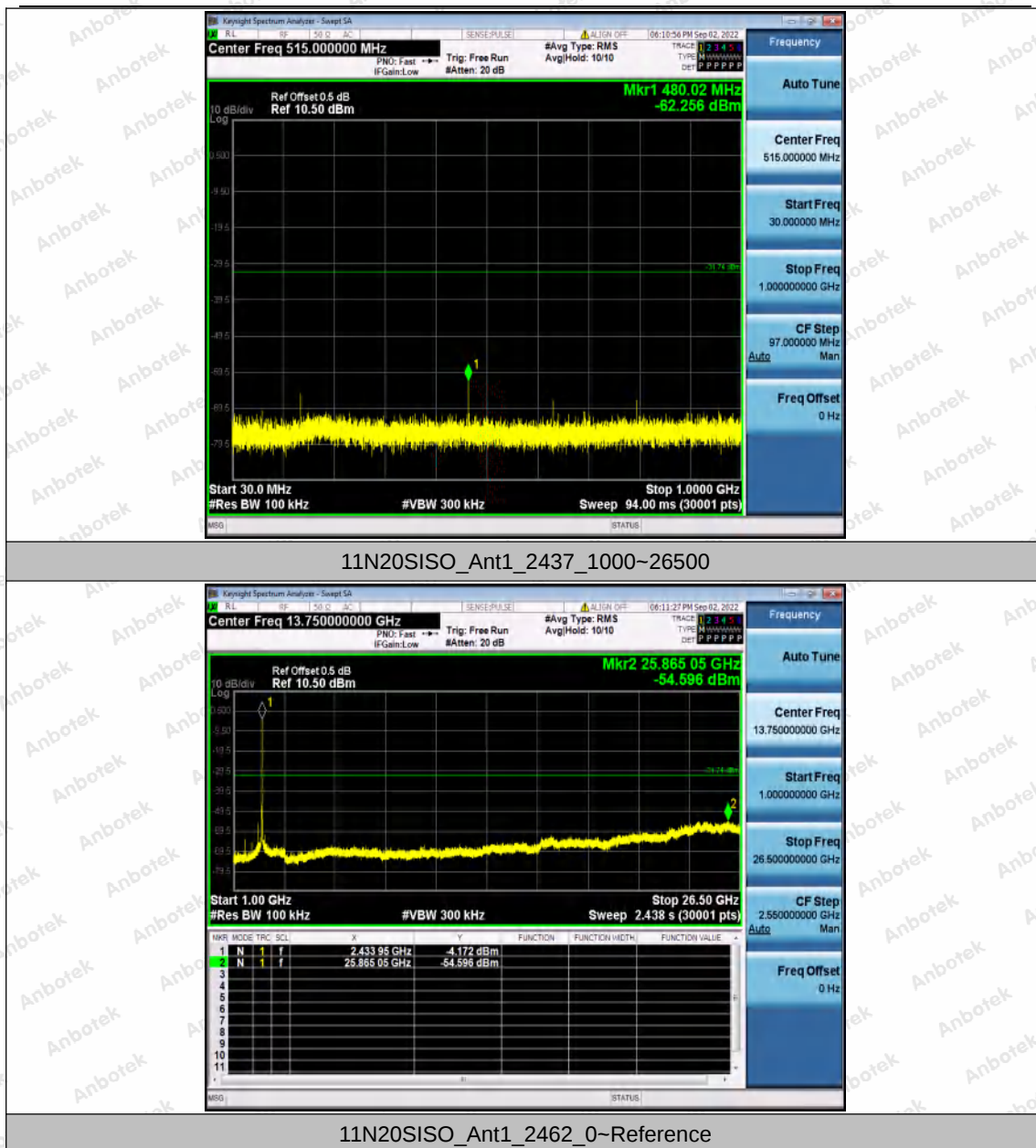
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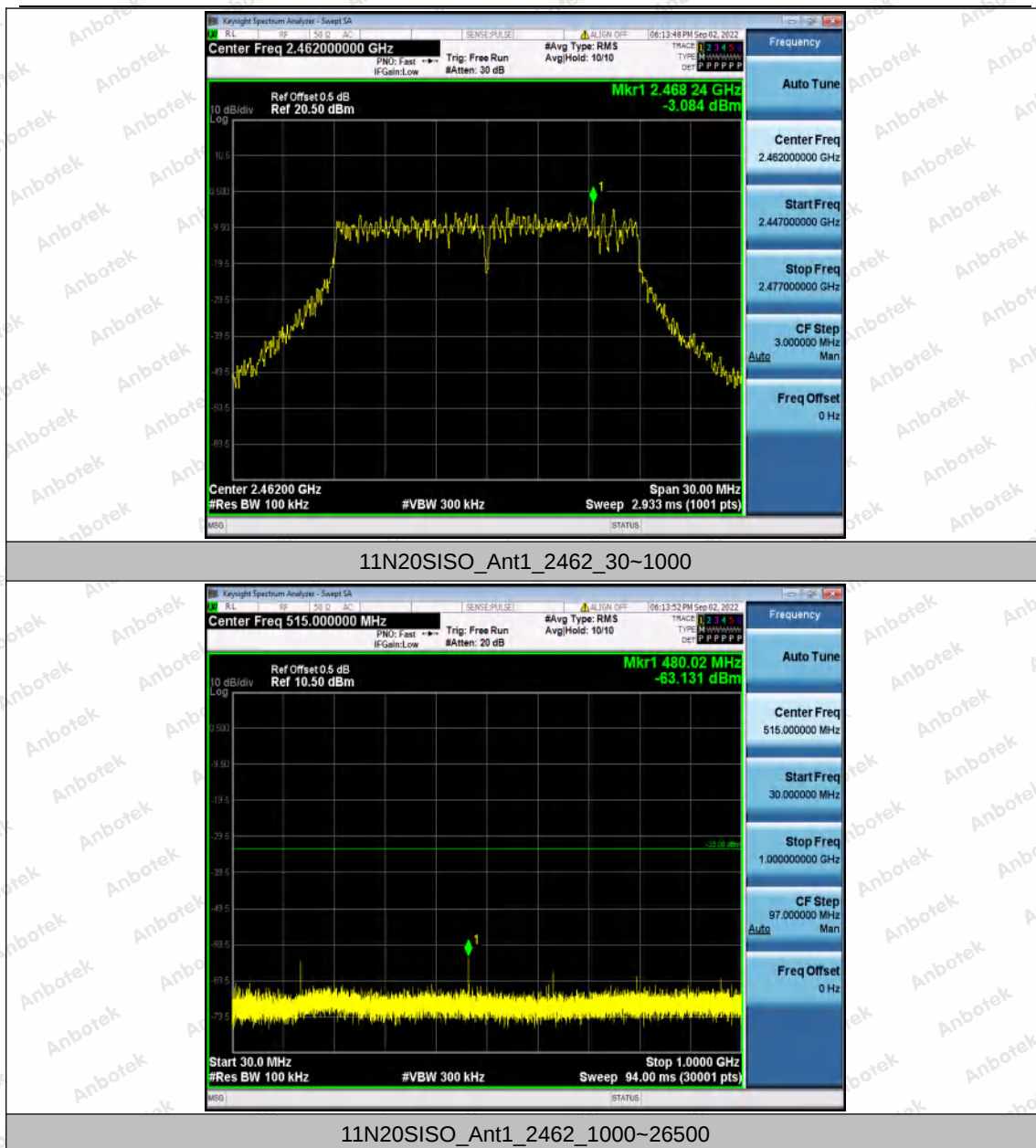
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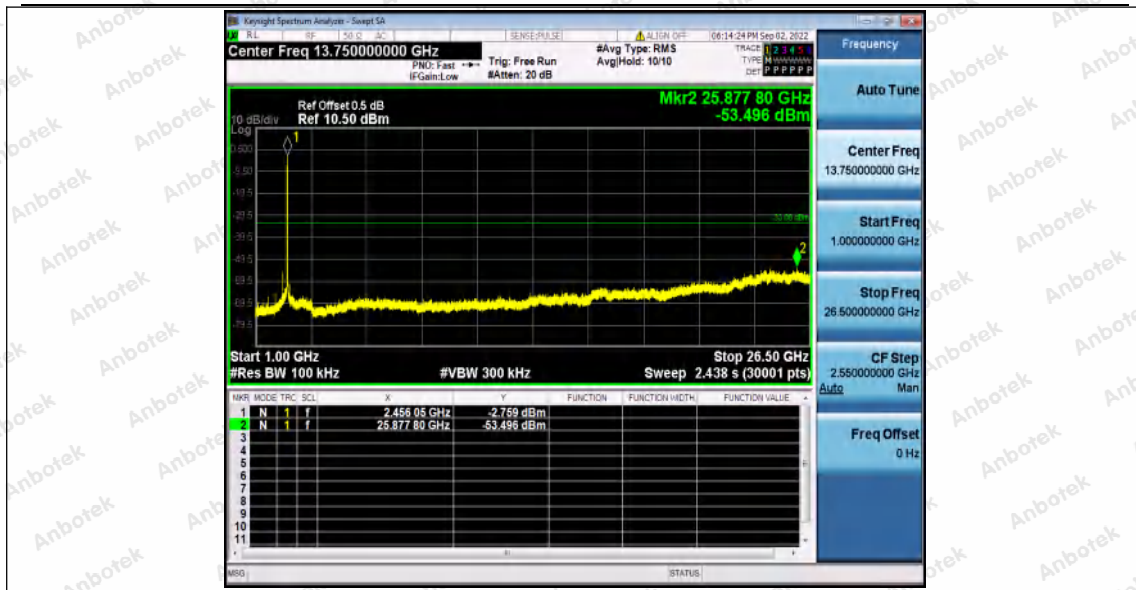
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Appendix G: Duty Cycle

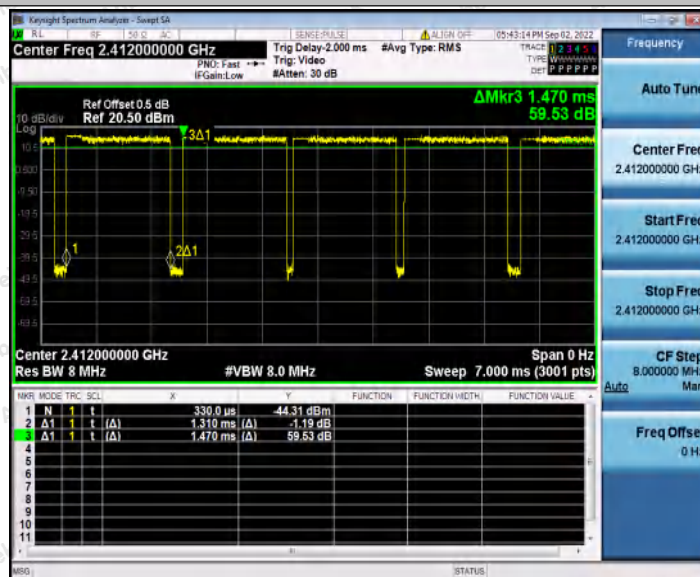
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	1.31	1.47	89.12	0.50
		2437	1.31	1.38	94.93	0.23
		2462	1.31	1.48	88.51	0.53
11G	Ant1	2412	0.25	0.39	64.10	1.93
		2437	0.25	0.42	59.52	2.25
		2462	0.25	0.38	65.79	1.82
11N20SISO	Ant1	2412	0.22	0.47	46.81	3.30
		2437	0.23	0.40	57.50	2.40
		2462	0.23	0.37	62.16	2.06

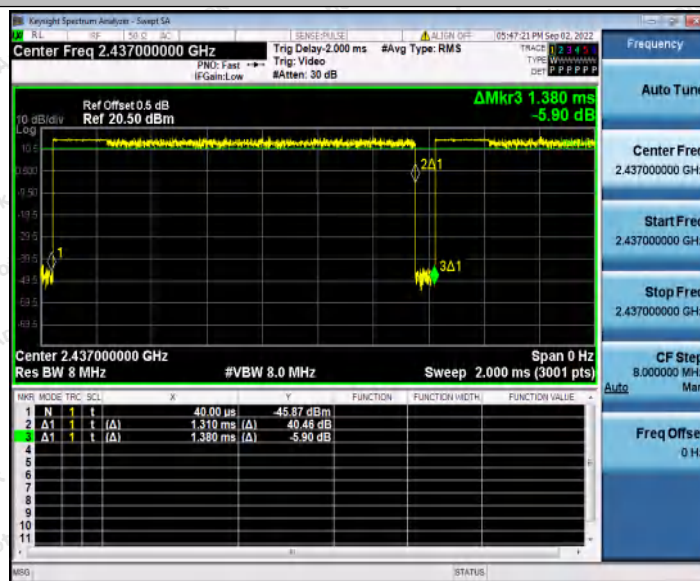


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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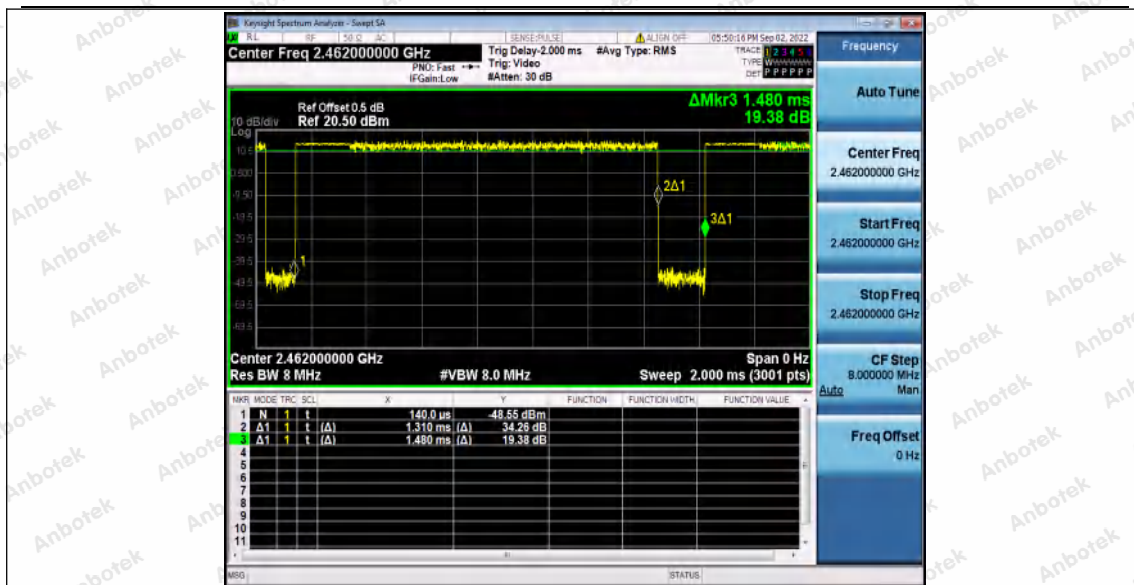


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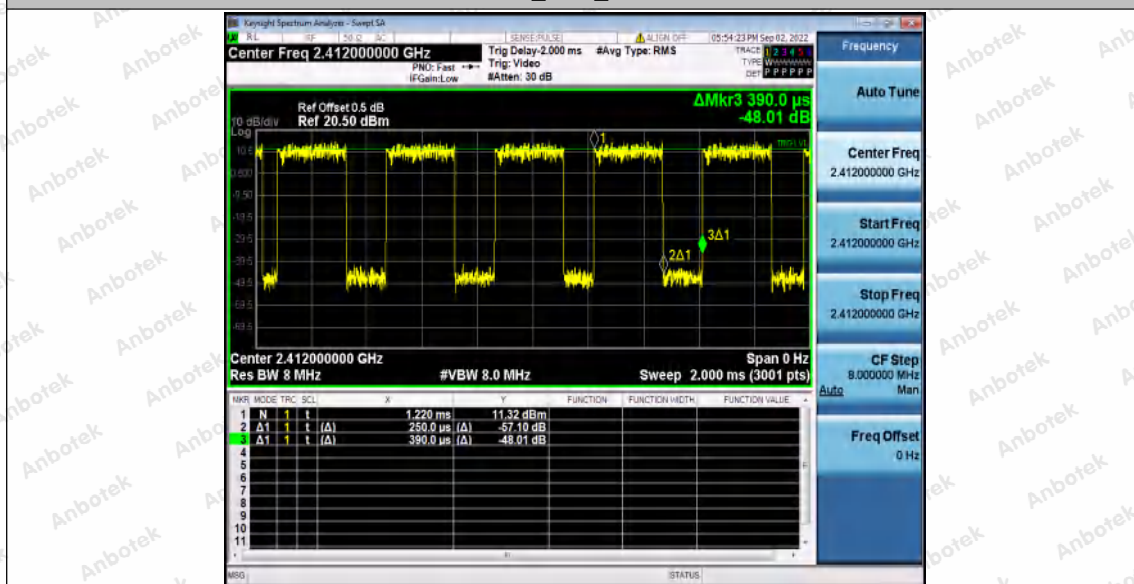
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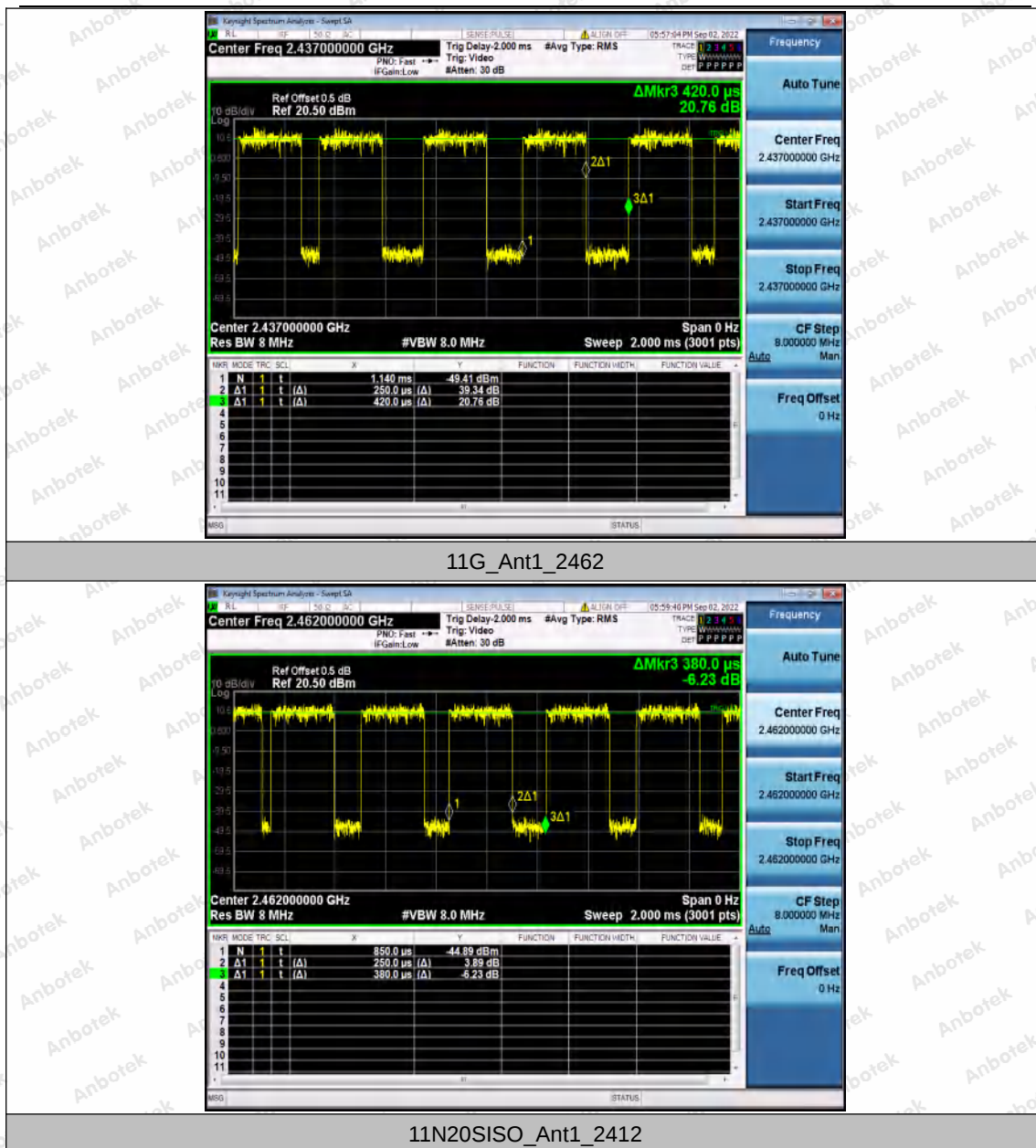


11G_Ant1_2412



11G_Ant1_2437





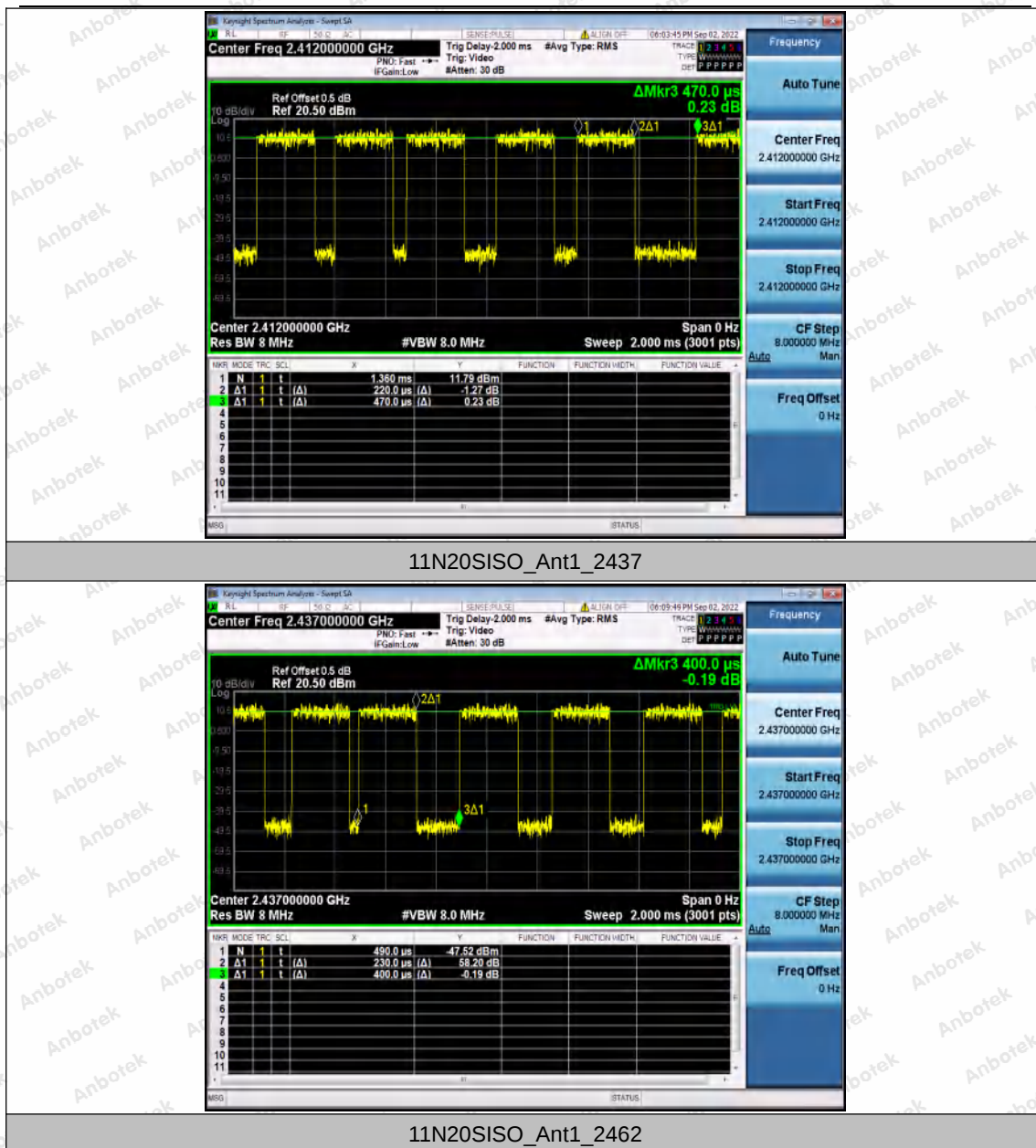
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