

Appendix Test Data

Report No.:	18220WC20089702	Test Sample No.:	1-2-2
Start Test Date:	2022.4.25	Finish Test Date:	2022.4.29
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

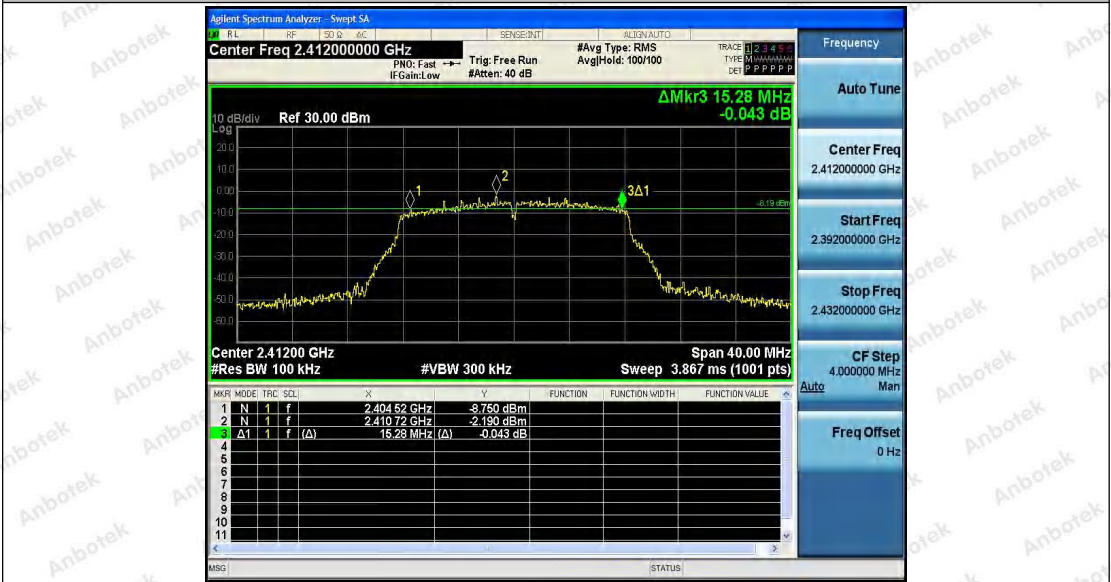
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.160	2408.440	2415.600	≥0.5	PASS
		2437	8.120	2433.440	2441.560	≥0.5	PASS
		2462	7.640	2457.920	2465.560	≥0.5	PASS
11G	Ant1	2412	15.280	2404.520	2419.800	≥0.5	PASS
		2437	15.080	2429.720	2444.800	≥0.5	PASS
		2462	15.160	2454.440	2469.600	≥0.5	PASS
11N20	Ant1	2412	15.240	2404.400	2419.640	≥0.5	PASS
		2437	16.360	2428.440	2444.800	≥0.5	PASS
		2462	15.080	2454.480	2469.560	≥0.5	PASS
11N40	Ant1	2422	32.640	2404.420	2437.060	≥0.5	PASS
		2437	35.880	2419.060	2454.940	≥0.5	PASS
		2452	33.900	2435.680	2469.580	≥0.5	PASS

Test Graphs





11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

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11N20_Ant1_2462



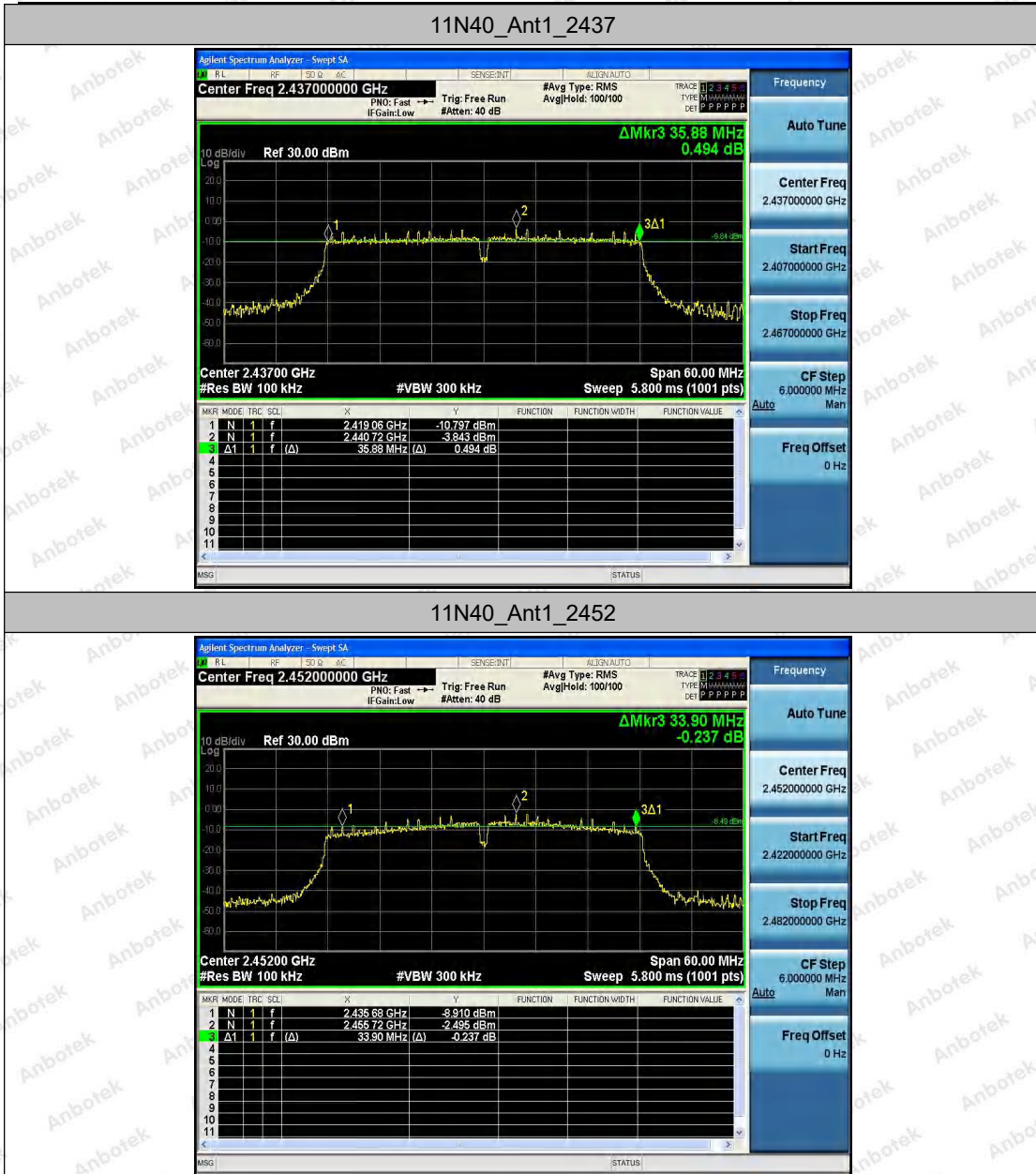
11N40_Ant1_2422



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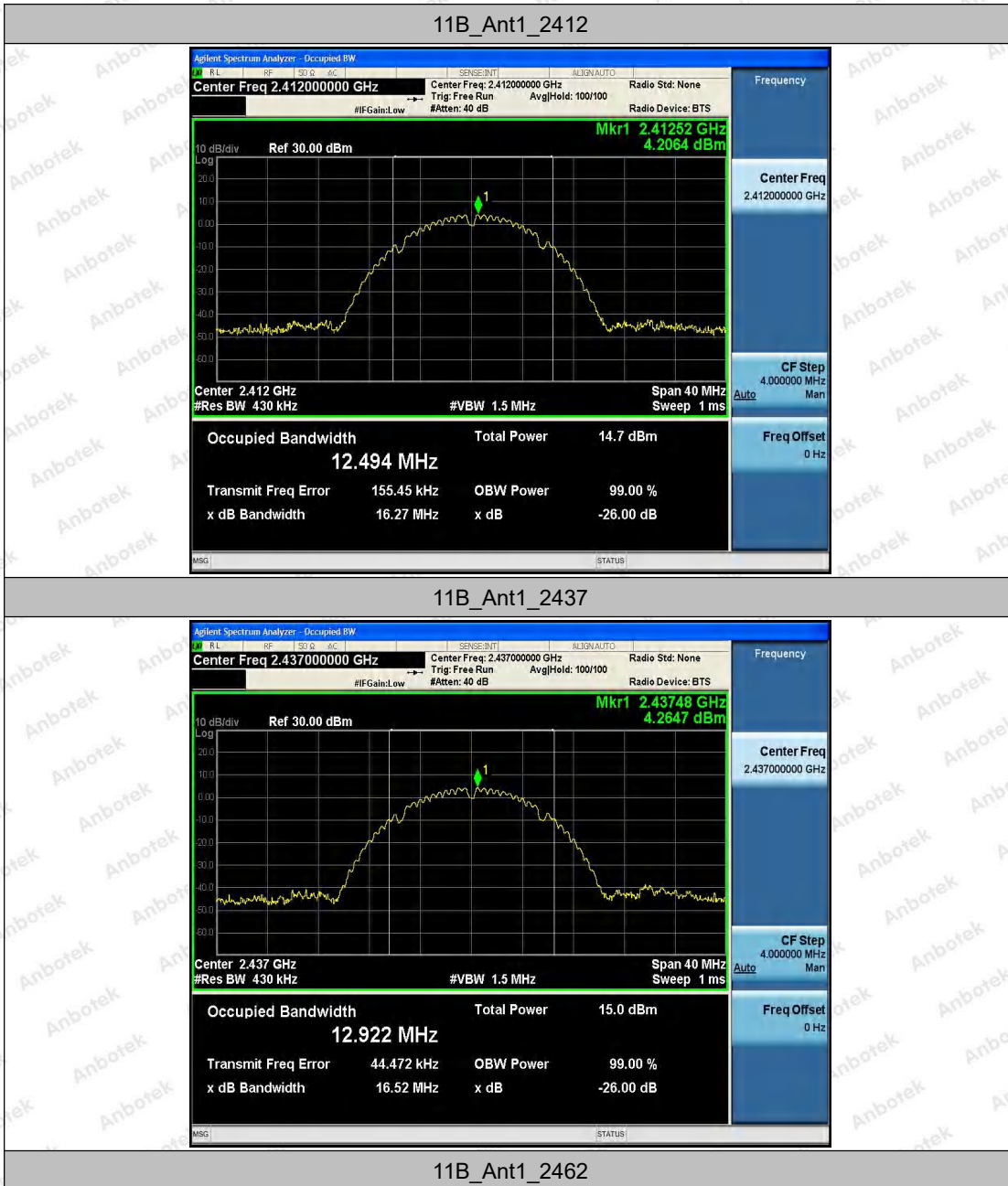
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.494	2405.908	2418.402	---	PASS
		2437	12.922	2430.583	2443.505	---	PASS
		2462	12.732	2455.578	2468.310	---	PASS
11G	Ant1	2412	16.579	2403.816	2420.395	---	PASS
		2437	16.936	2428.555	2445.491	---	PASS
		2462	16.762	2453.557	2470.319	---	PASS
11N20	Ant1	2412	17.668	2403.253	2420.921	---	PASS
		2437	17.879	2428.091	2445.970	---	PASS
		2462	17.763	2453.097	2470.860	---	PASS
11N40	Ant1	2422	35.864	2404.077	2439.941	---	PASS
		2437	36.361	2418.834	2455.195	---	PASS
		2452	35.822	2434.181	2470.003	---	PASS

Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

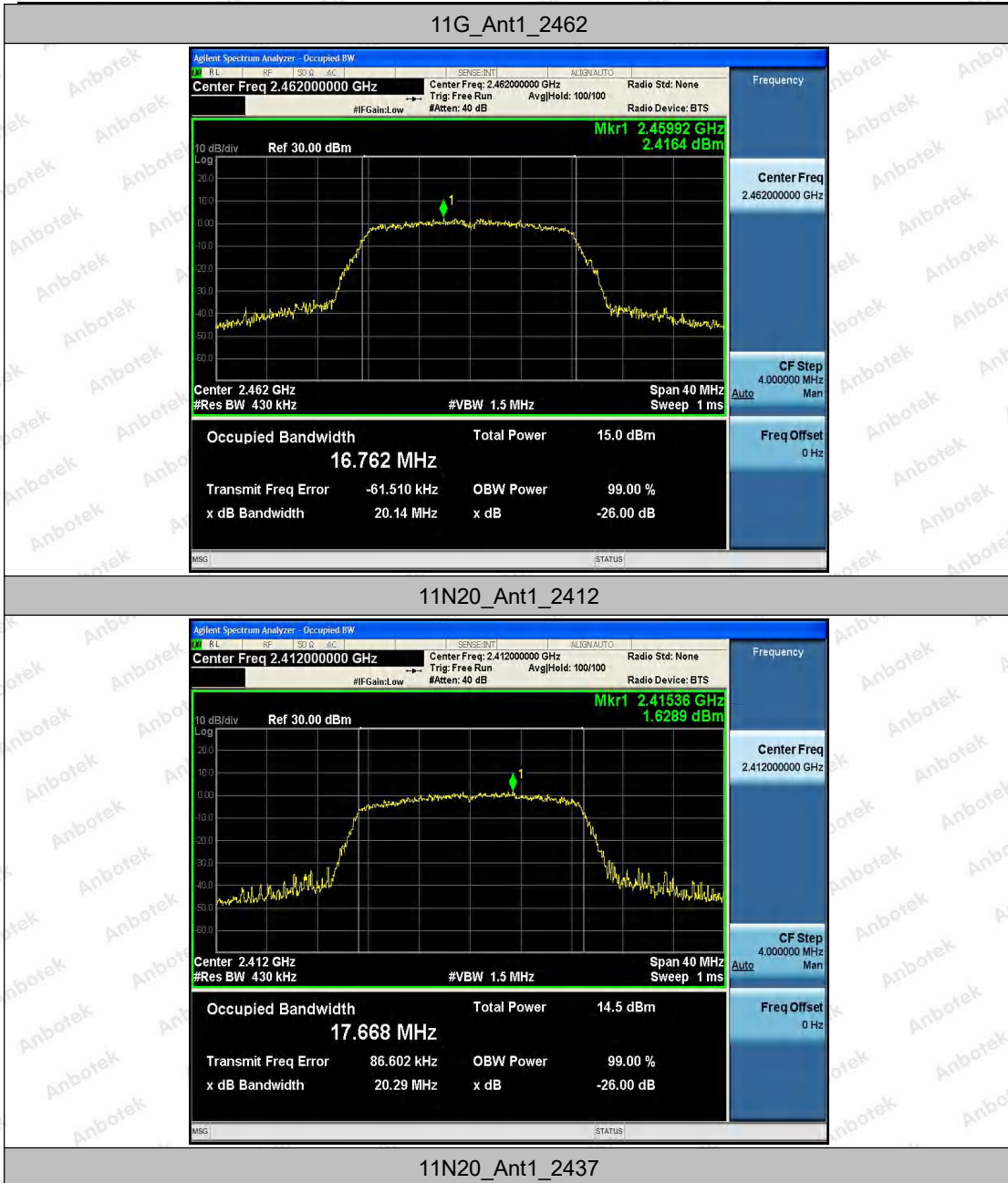


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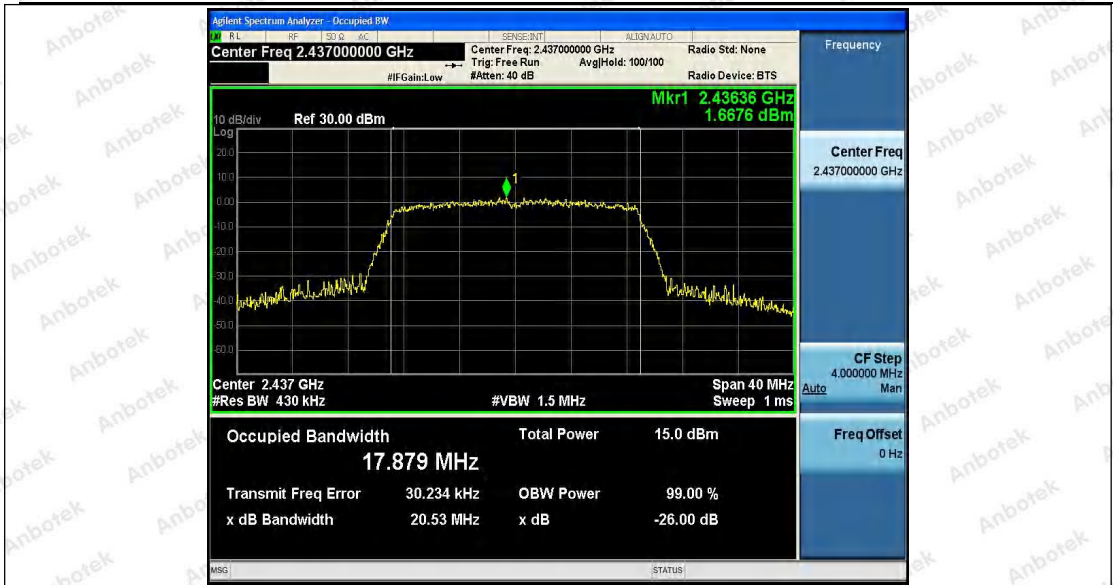


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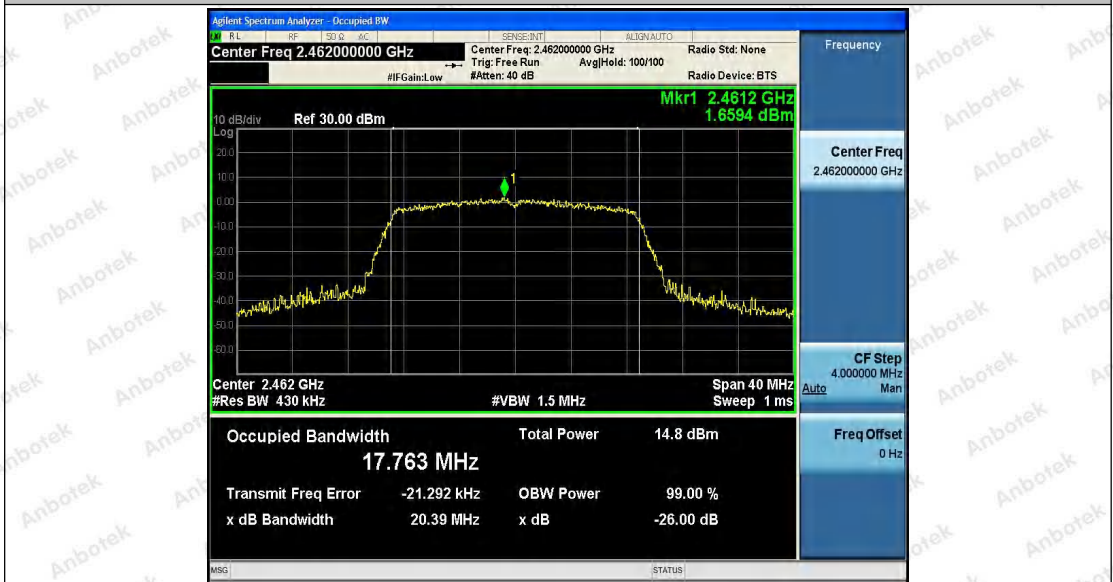
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11N20_Ant1_2462



11N40_Ant1_2422

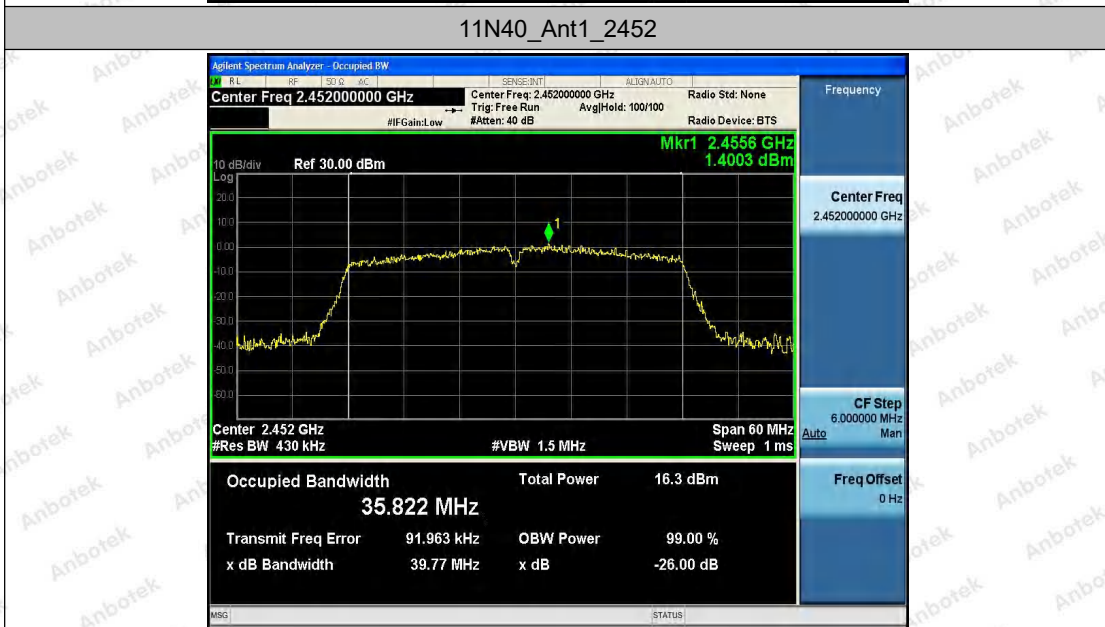
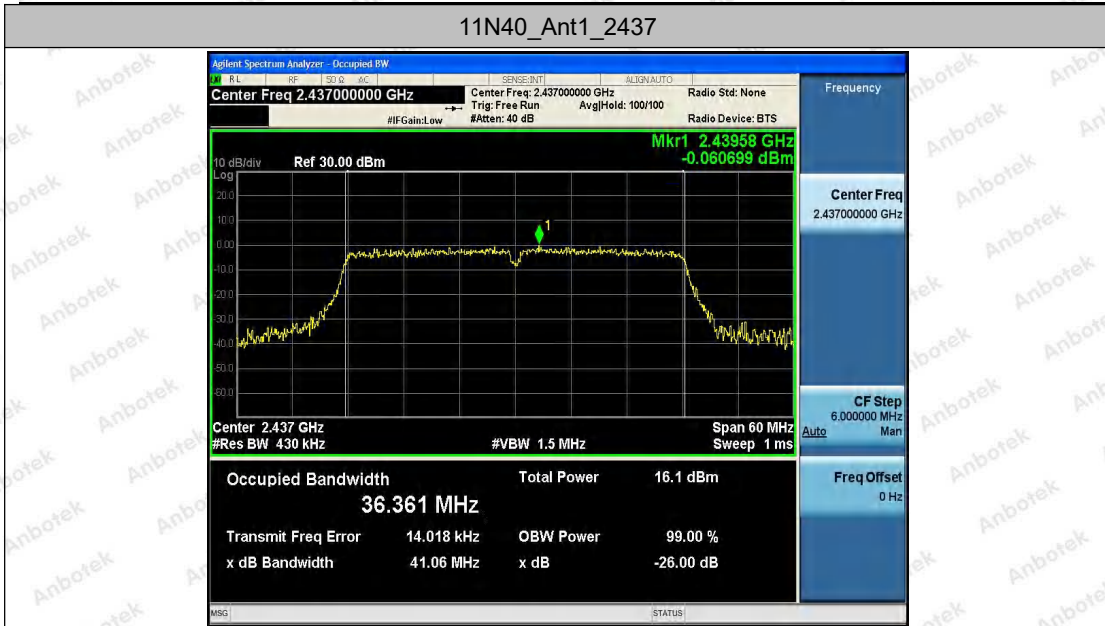


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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.70	≤30	PASS
		2437	15.00	≤30	PASS
		2462	15.12	≤30	PASS
11G	Ant1	2412	15.75	≤30	PASS
		2437	16.06	≤30	PASS
		2462	16.08	≤30	PASS
11N20	Ant1	2412	15.67	≤30	PASS
		2437	16.09	≤30	PASS
		2462	15.99	≤30	PASS
11N40	Ant1	2422	15.68	≤30	PASS
		2437	14.67	≤30	PASS
		2452	15.82	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.66	≤8	PASS
		2437	-10.64	≤8	PASS
		2462	-8.96	≤8	PASS
11G	Ant1	2412	-15.46	≤8	PASS
		2437	-15.75	≤8	PASS
		2462	-14.8	≤8	PASS
11N20	Ant1	2412	-15.52	≤8	PASS
		2437	-16.11	≤8	PASS
		2462	-15.22	≤8	PASS
11N40	Ant1	2422	-17.02	≤8	PASS
		2437	-17.13	≤8	PASS
		2452	-16.74	≤8	PASS

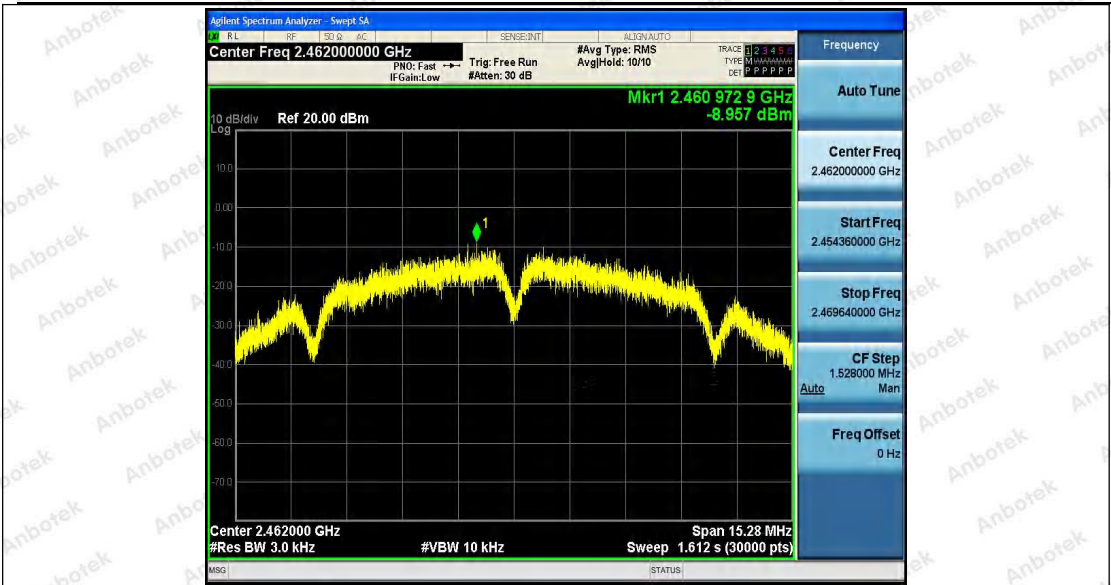
Test Graphs



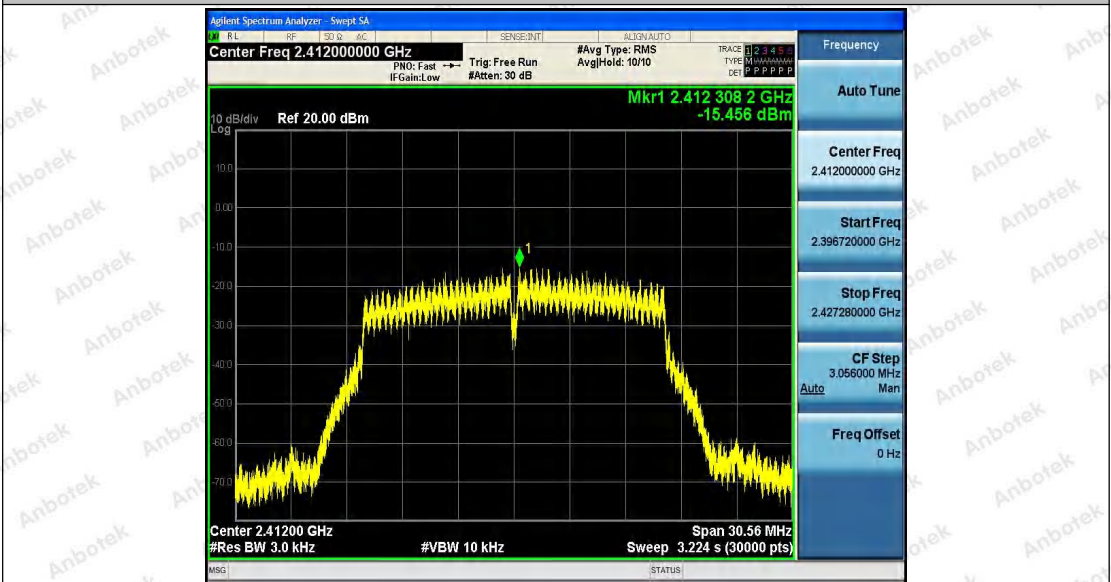
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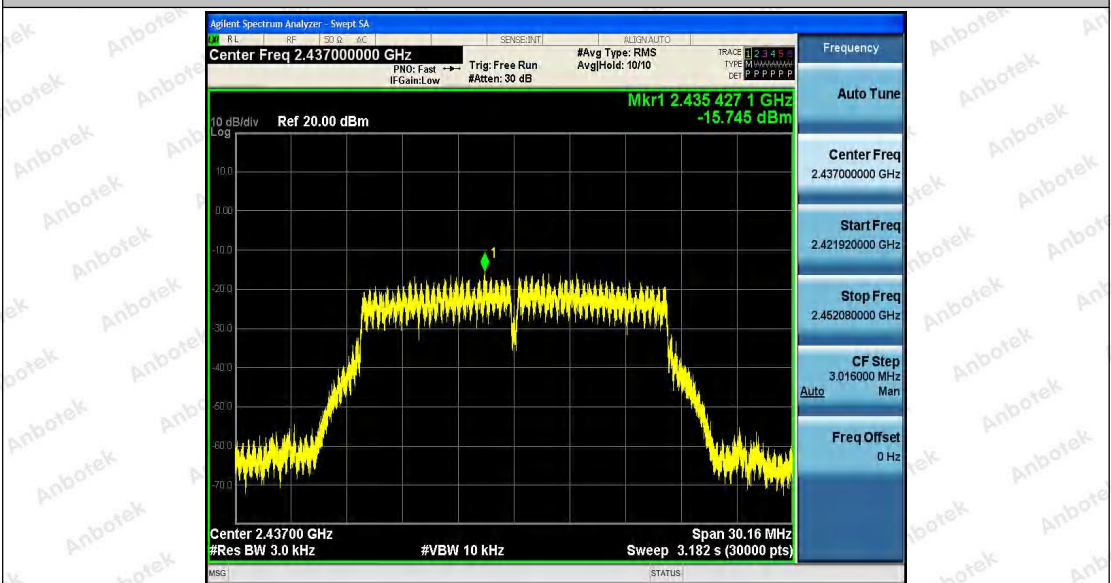
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11G_Ant1_2412



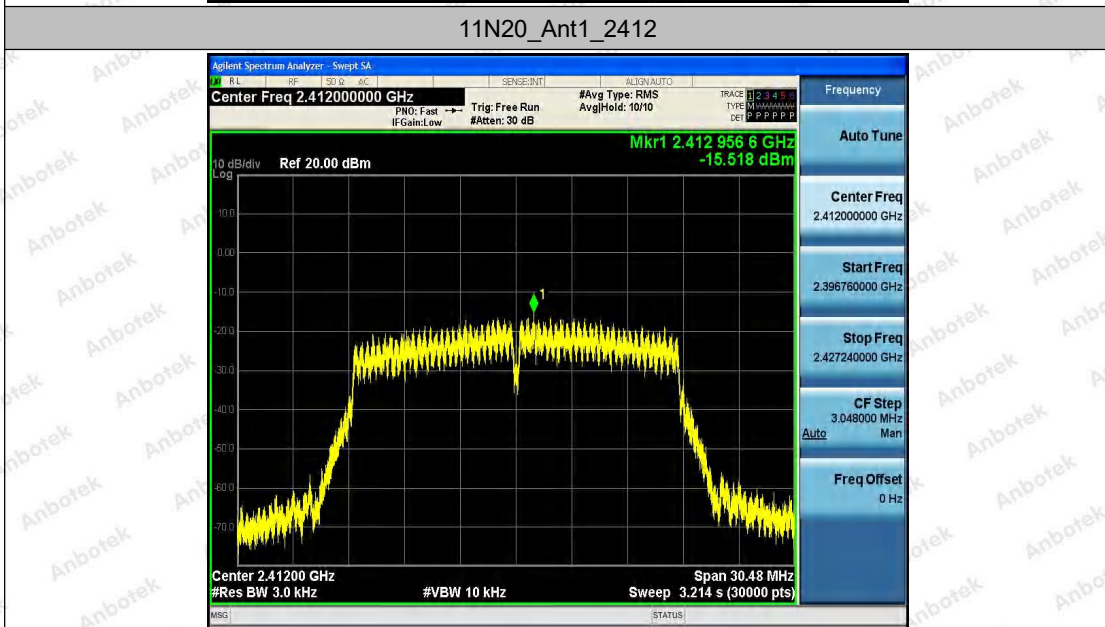
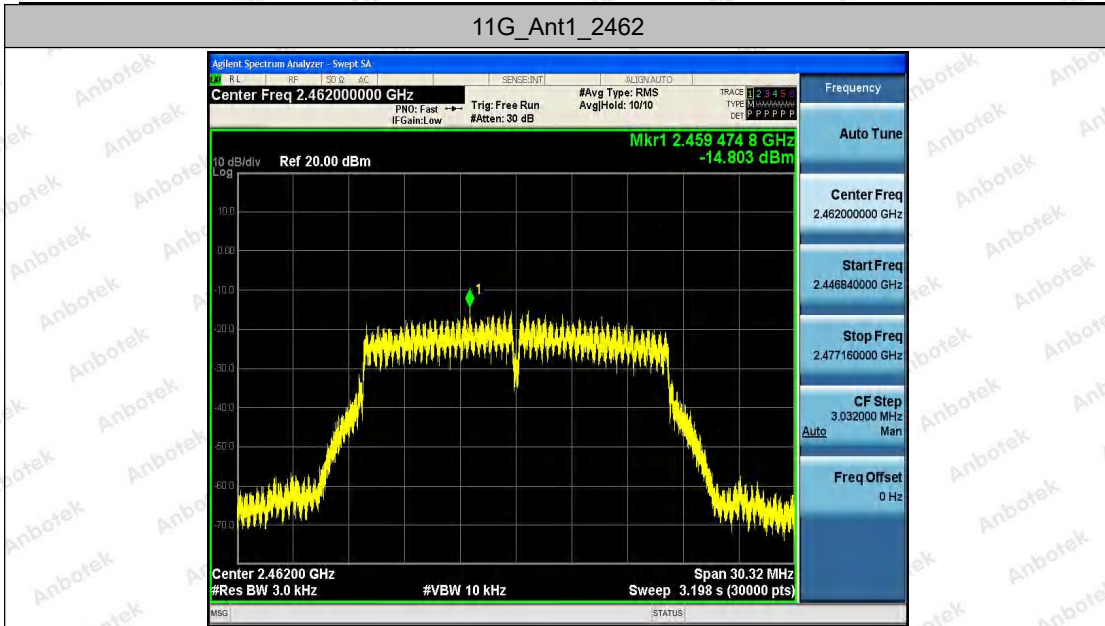
11G_Ant1_2437



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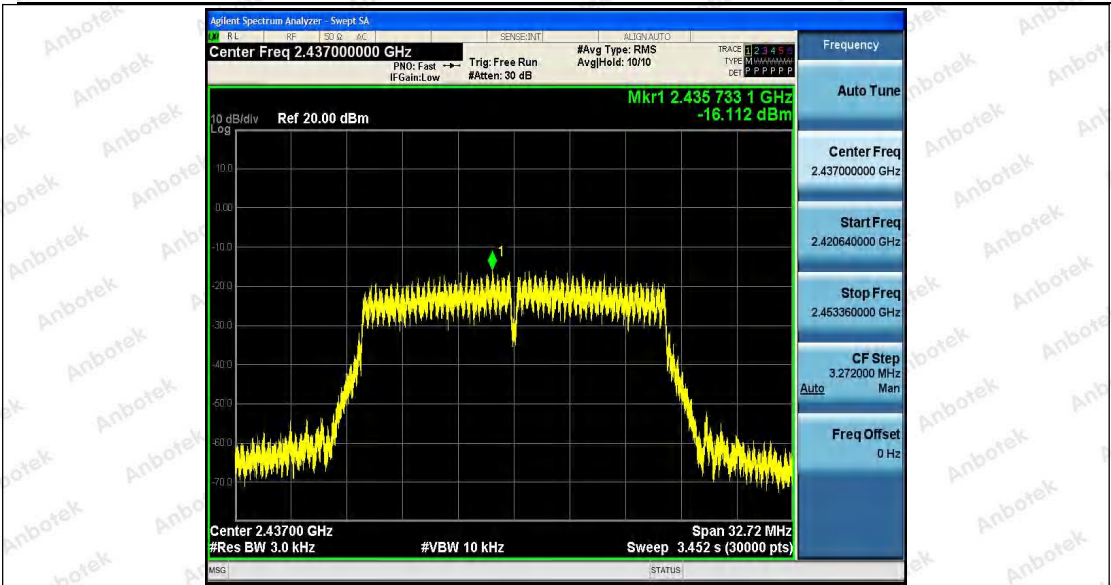
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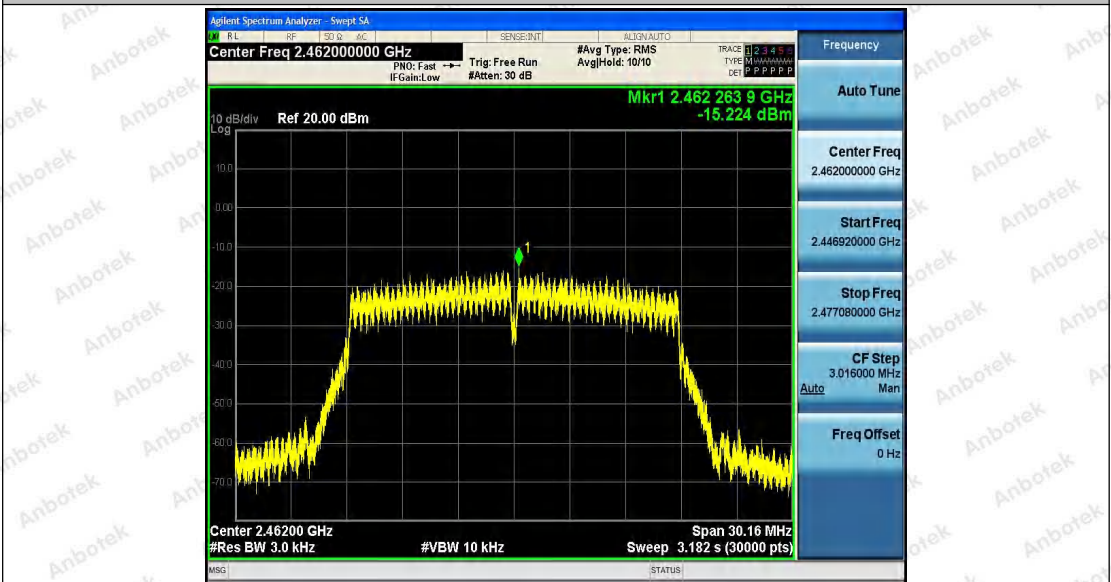
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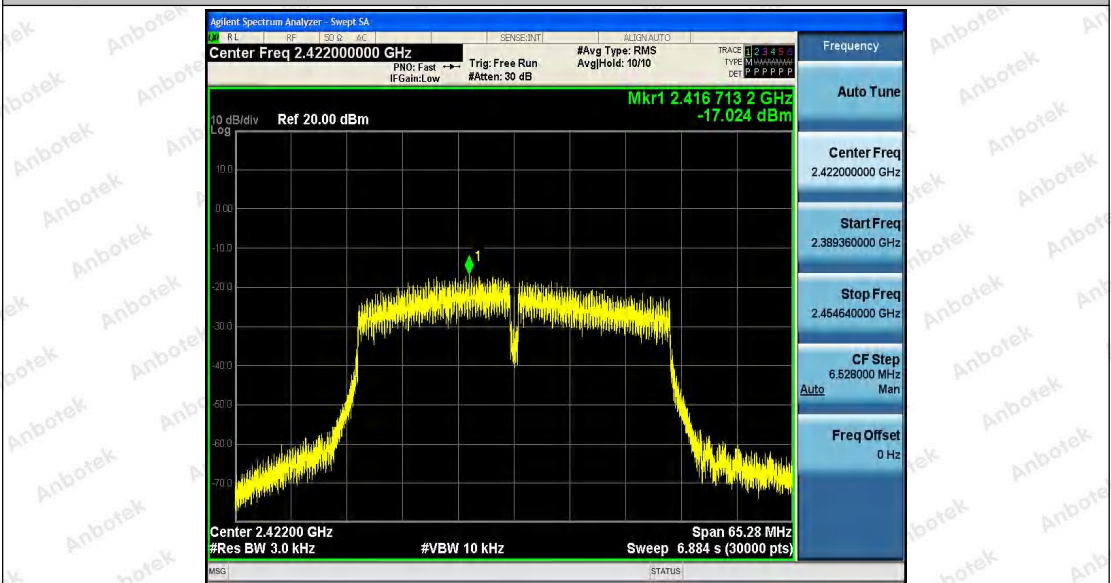
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11N20_Ant1_2462



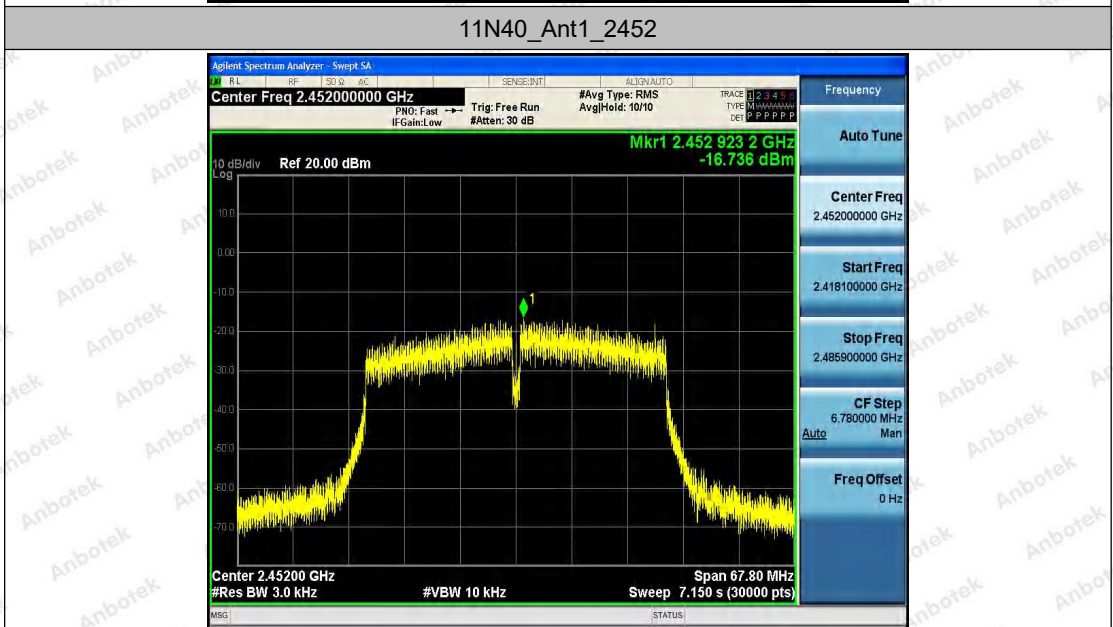
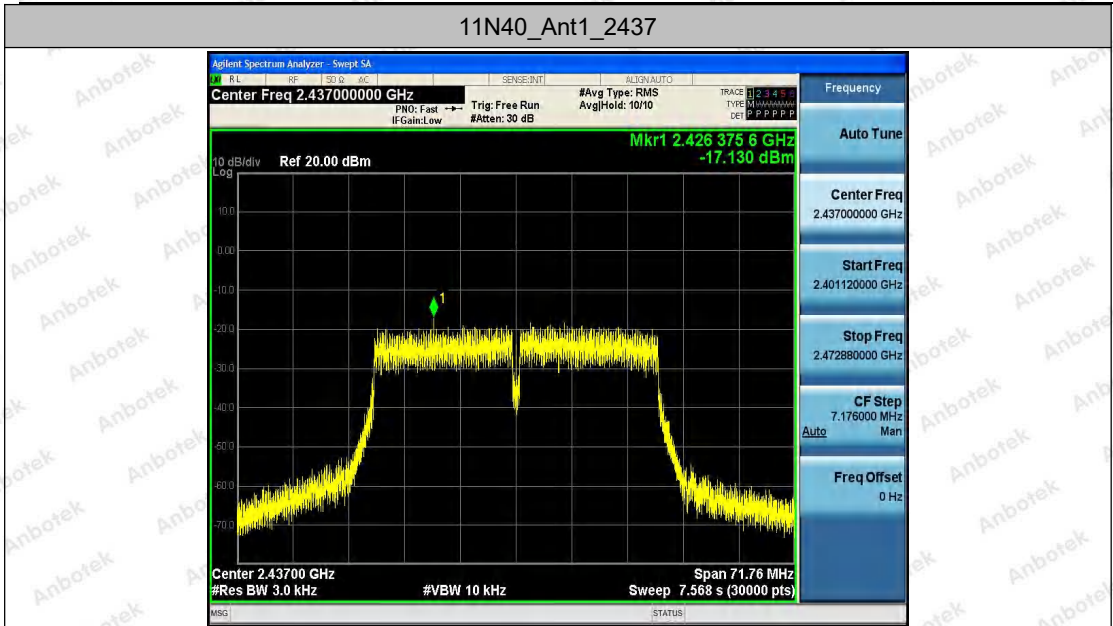
11N40_Ant1_2422



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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.00	-48.51	≤-13	PASS
		High	2462	7.77	-51.54	≤-12.23	PASS
11G	Ant1	Low	2412	-1.14	-46.1	≤-21.14	PASS
		High	2462	-0.62	-53.08	≤-20.62	PASS
11N20	Ant1	Low	2412	-0.96	-45.31	≤-20.96	PASS
		High	2462	-0.98	-52.28	≤-20.98	PASS
11N40	Ant1	Low	2422	-1.60	-41.16	≤-21.6	PASS
		High	2452	-2.71	-44.52	≤-22.71	PASS

Test Graphs





11G_Ant1_High_2462



11N20_Ant1_Low_2412



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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.78	3.78	---	PASS
			30~1000	3.78	-69.94	≤-16.22	PASS
			1000~26500	3.78	-51.91	≤-16.22	PASS
		2437	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-68.7	≤-16.46	PASS
			1000~26500	3.54	-50.89	≤-16.46	PASS
		2462	Reference	4.16	4.16	---	PASS
			30~1000	4.16	-69.78	≤-15.84	PASS
			1000~26500	4.16	-53.05	≤-15.84	PASS
11G	Ant1	2412	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-69.37	≤-21.11	PASS
			1000~26500	-1.11	-55.14	≤-21.11	PASS
		2437	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-70.43	≤-21.86	PASS
			1000~26500	-1.86	-54.6	≤-21.86	PASS
		2462	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-70.43	≤-21.61	PASS
			1000~26500	-1.61	-55.13	≤-21.61	PASS
11N20	Ant1	2412	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-70.66	≤-22.54	PASS
			1000~26500	-2.54	-55.35	≤-22.54	PASS
		2437	Reference	-2.35	-2.35	---	PASS
			30~1000	-2.35	-70.59	≤-22.35	PASS
			1000~26500	-2.35	-56.24	≤-22.35	PASS
		2462	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-70.4	≤-21.44	PASS
			1000~26500	-1.44	-55.73	≤-21.44	PASS
11N40	Ant1	2422	Reference	-2.58	-2.58	---	PASS
			30~1000	-2.58	-70.45	≤-22.58	PASS
			1000~26500	-2.58	-54.45	≤-22.58	PASS
		2437	Reference	-4.16	-4.16	---	PASS
			30~1000	-4.16	-70.3	≤-24.16	PASS
			1000~26500	-4.16	-55.09	≤-24.16	PASS
		2452	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-69.88	≤-22.9	PASS
			1000~26500	-2.90	-55.48	≤-22.9	PASS

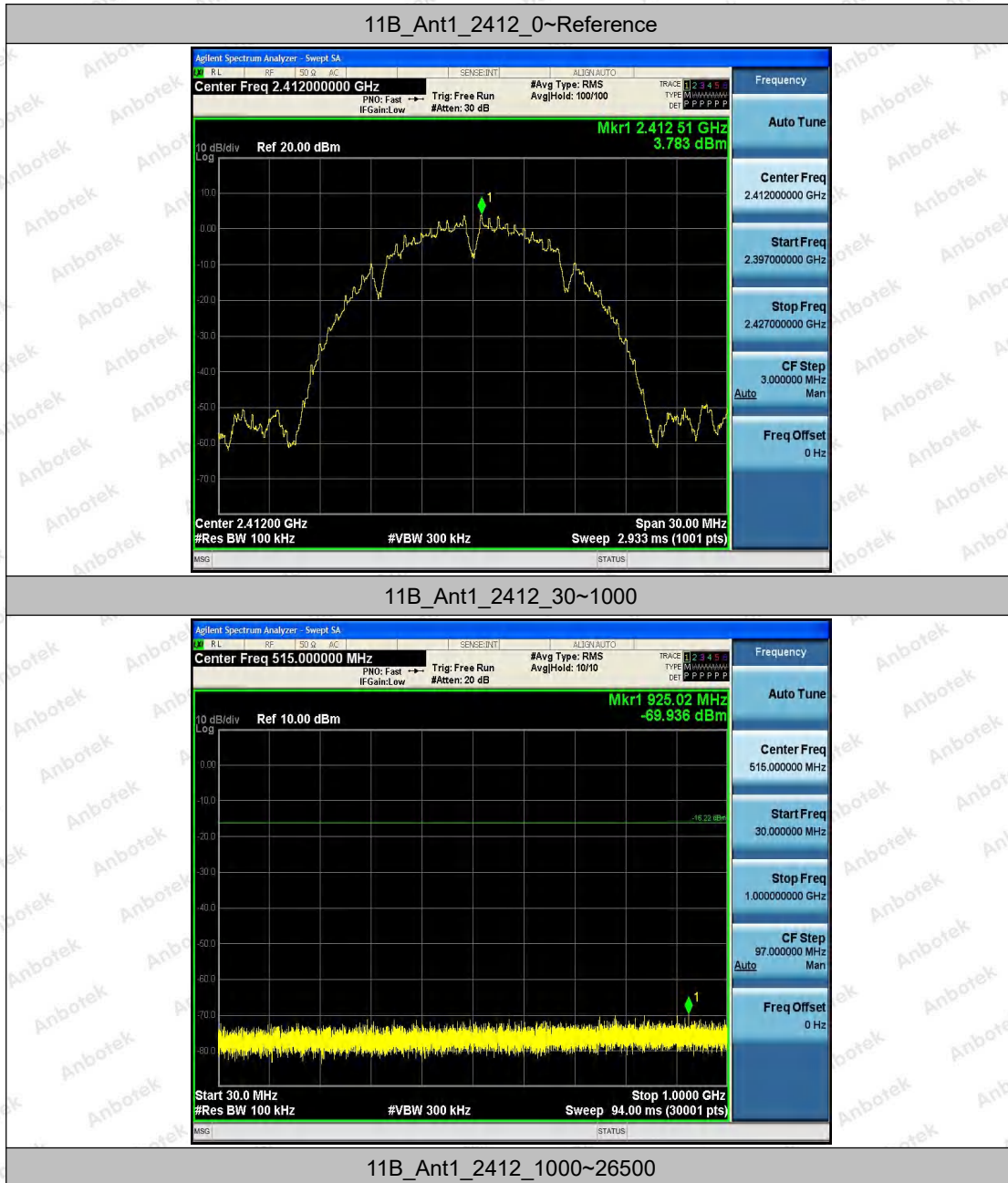
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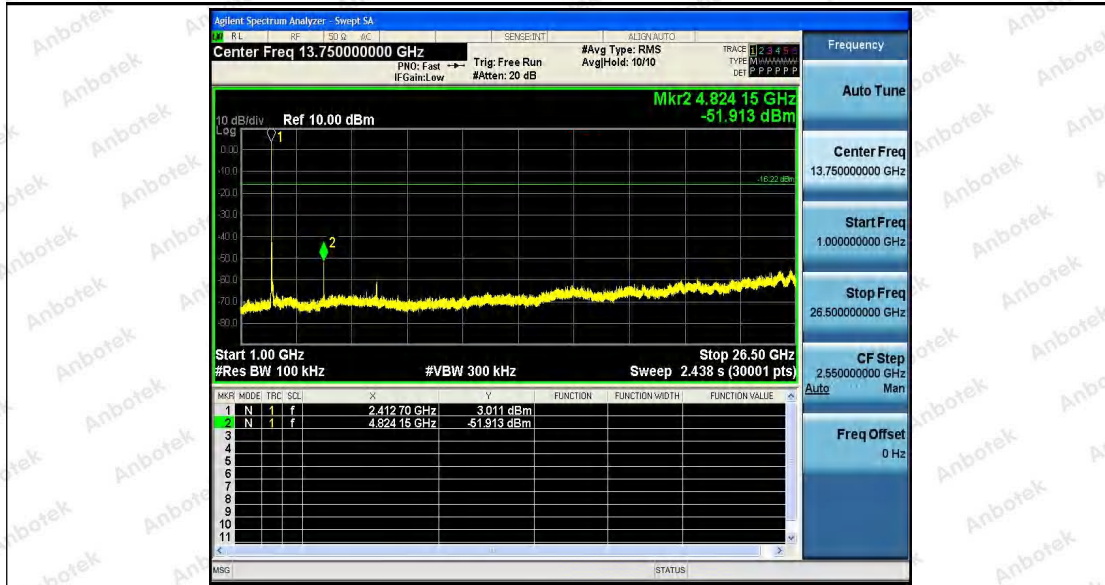
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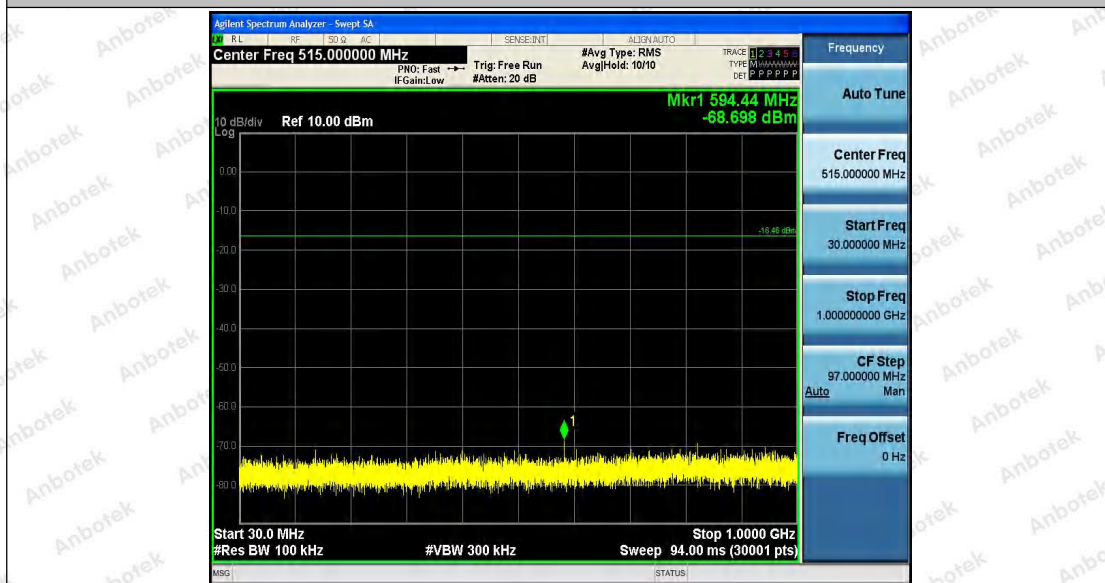




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

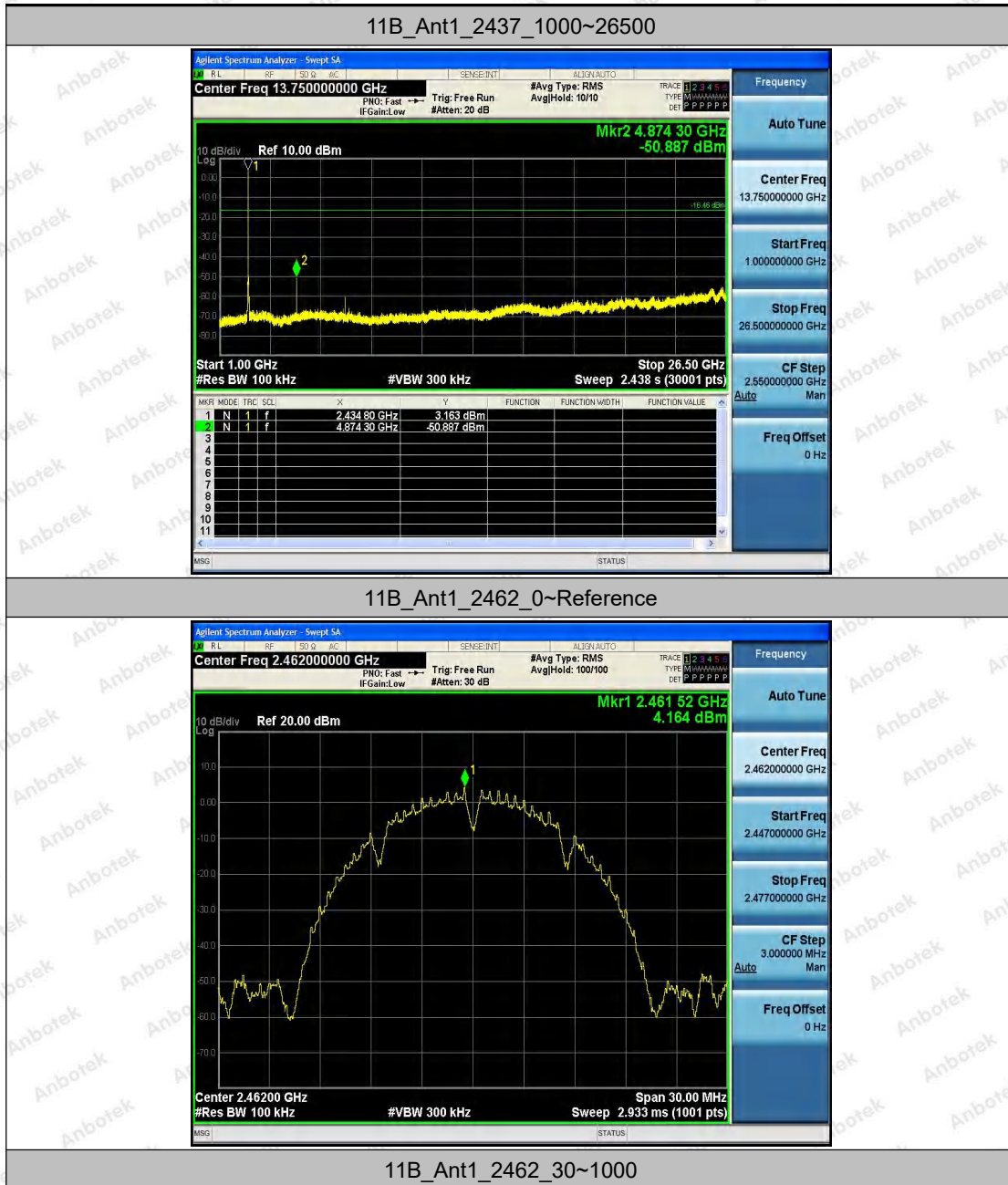


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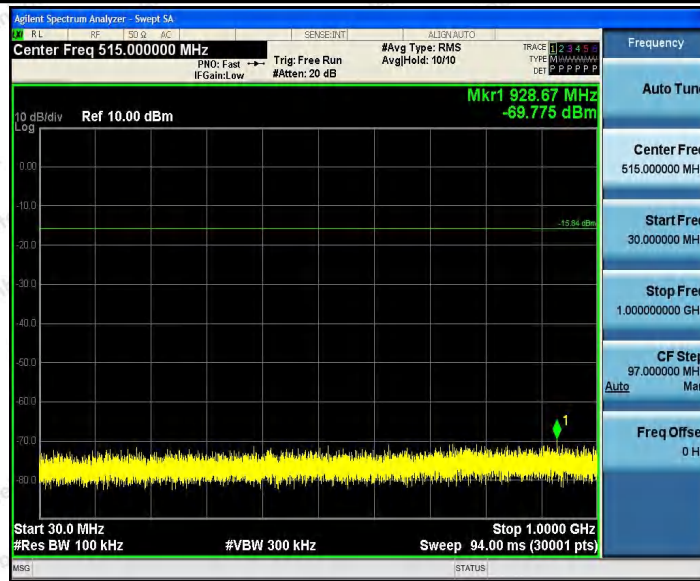


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

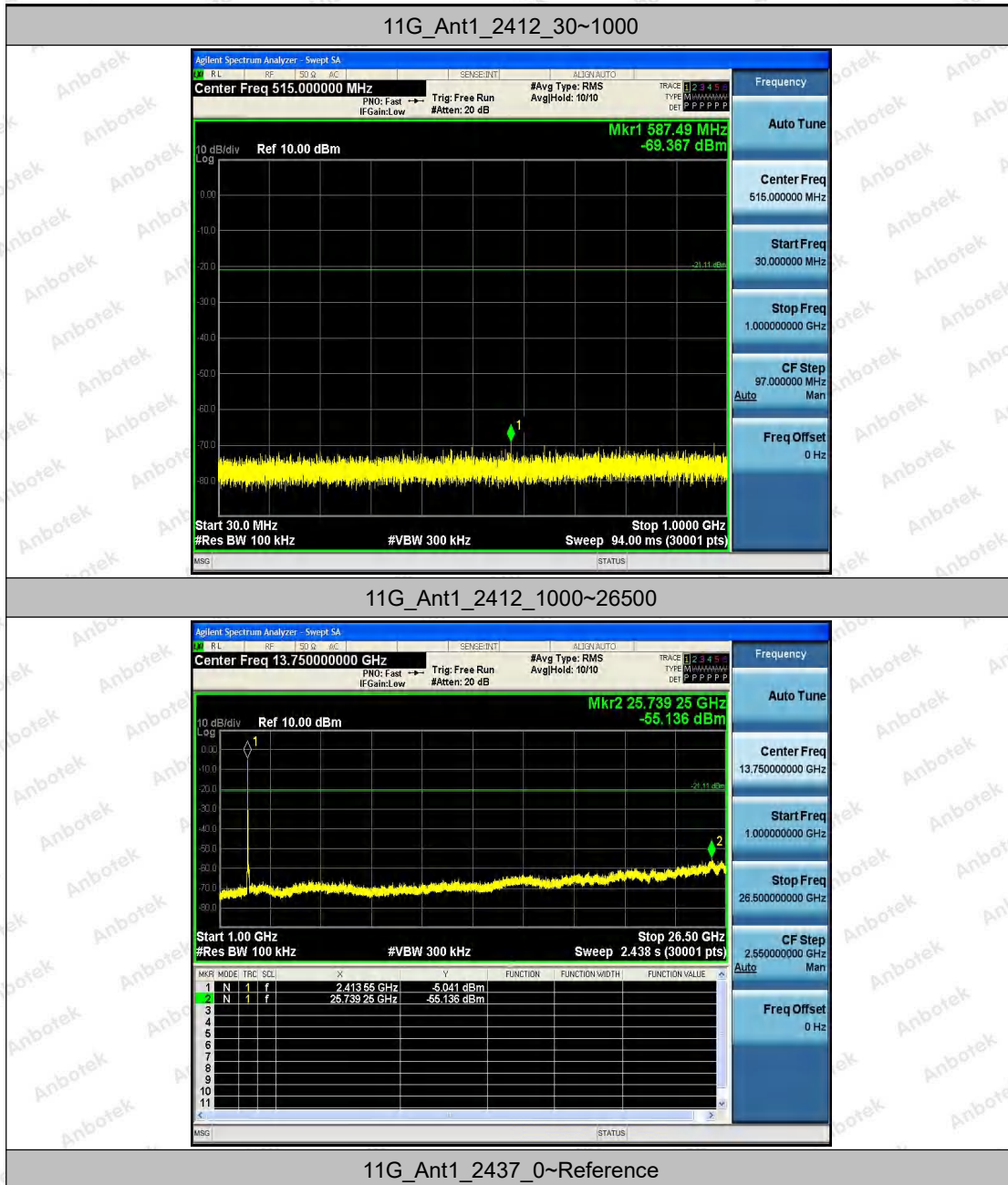


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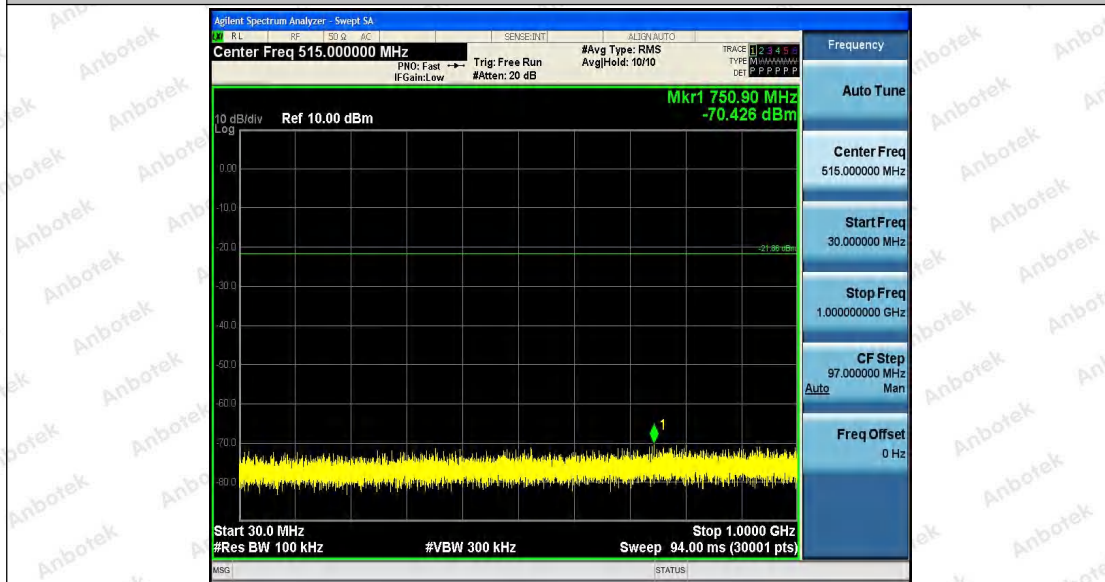
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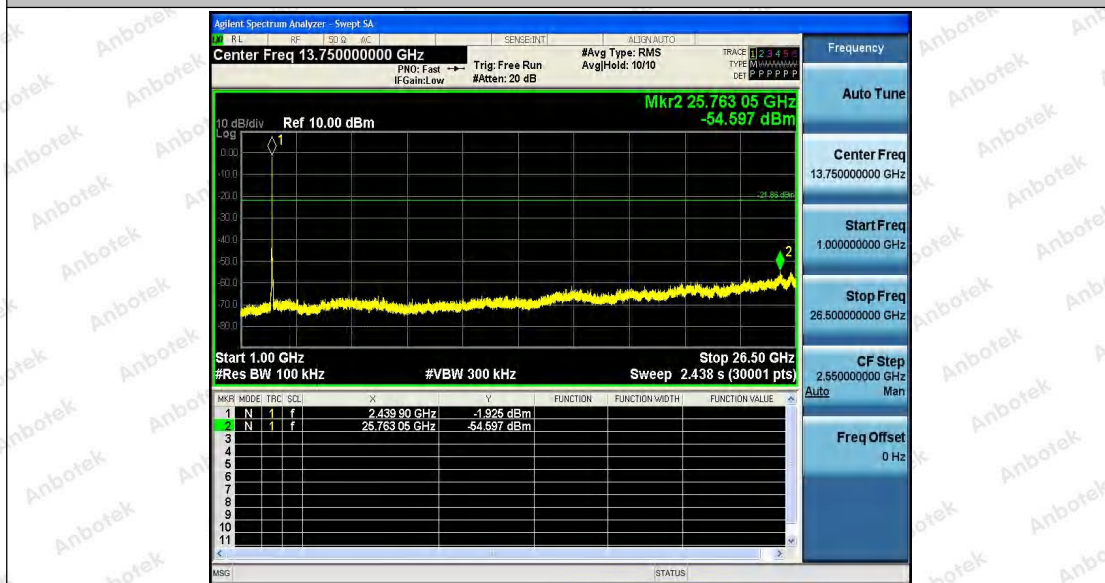
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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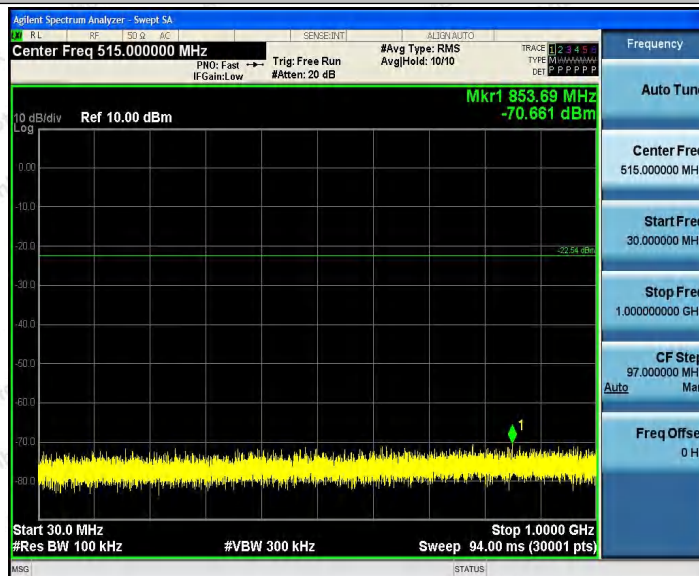
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11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000

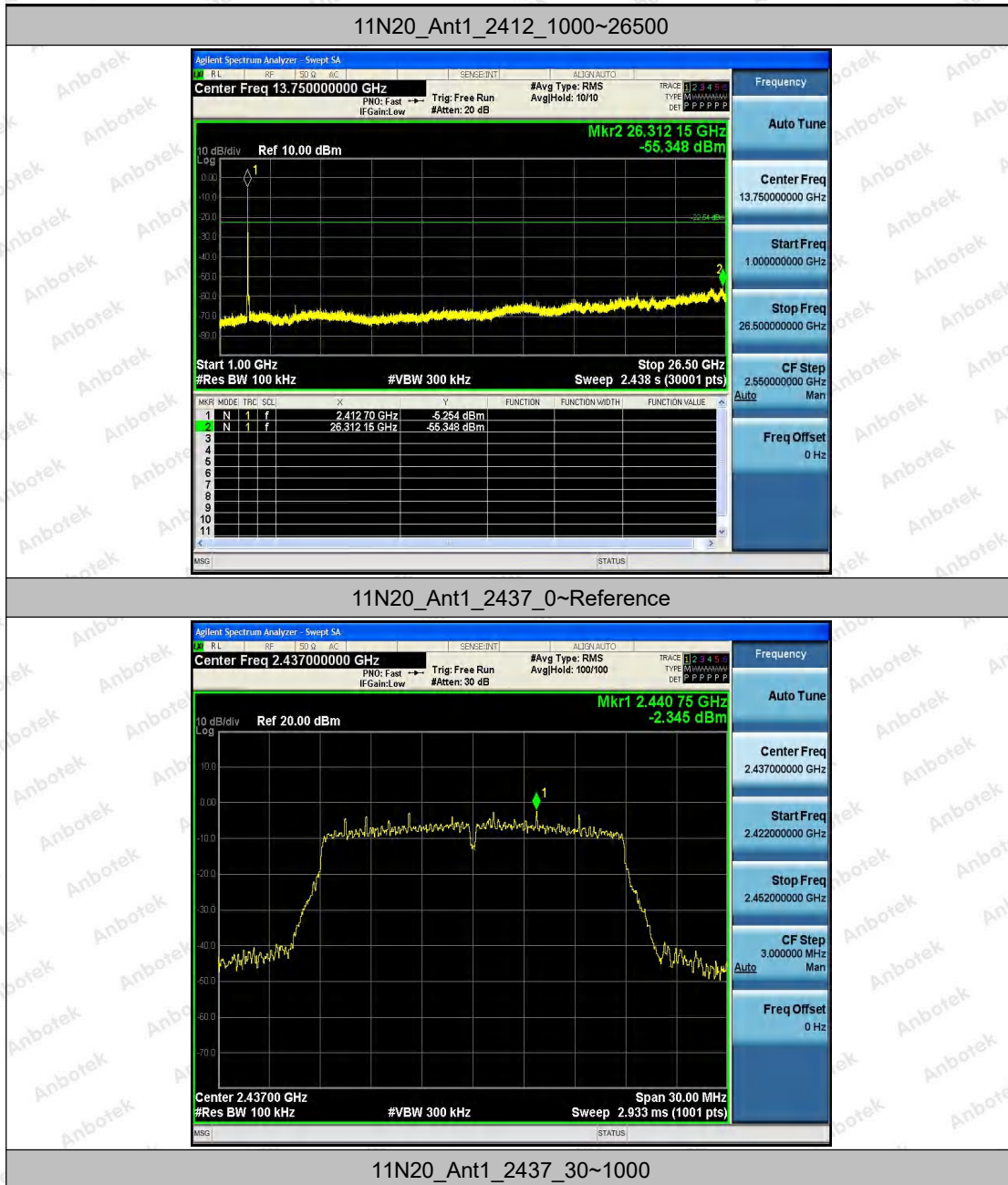


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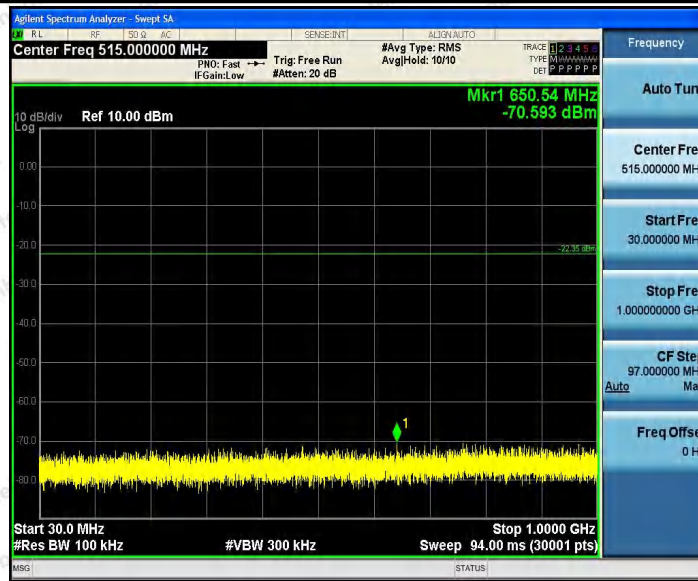
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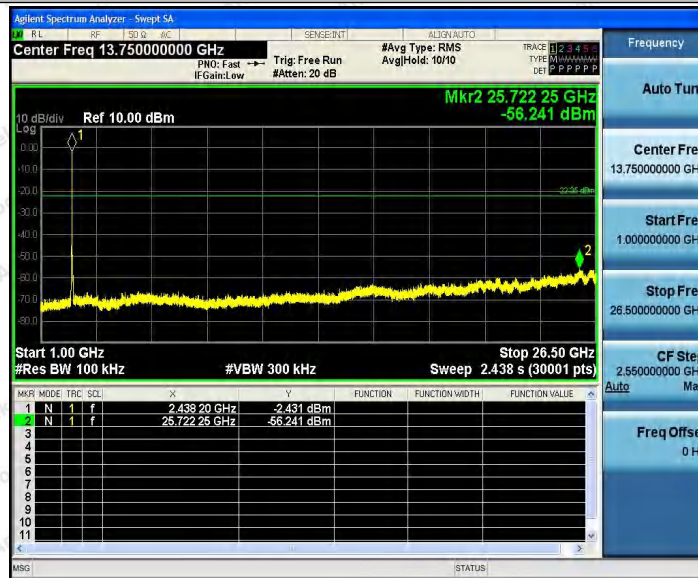
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11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

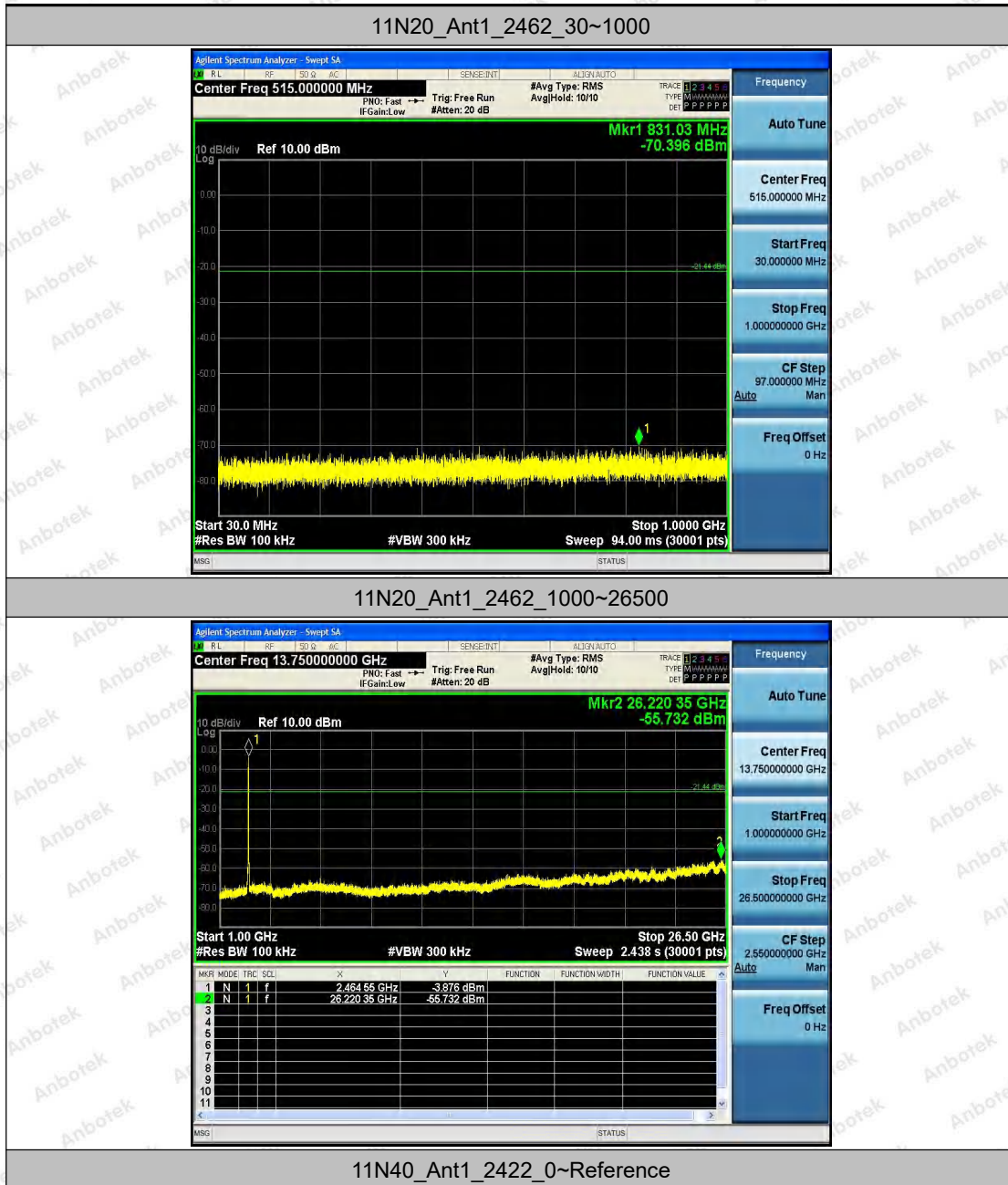


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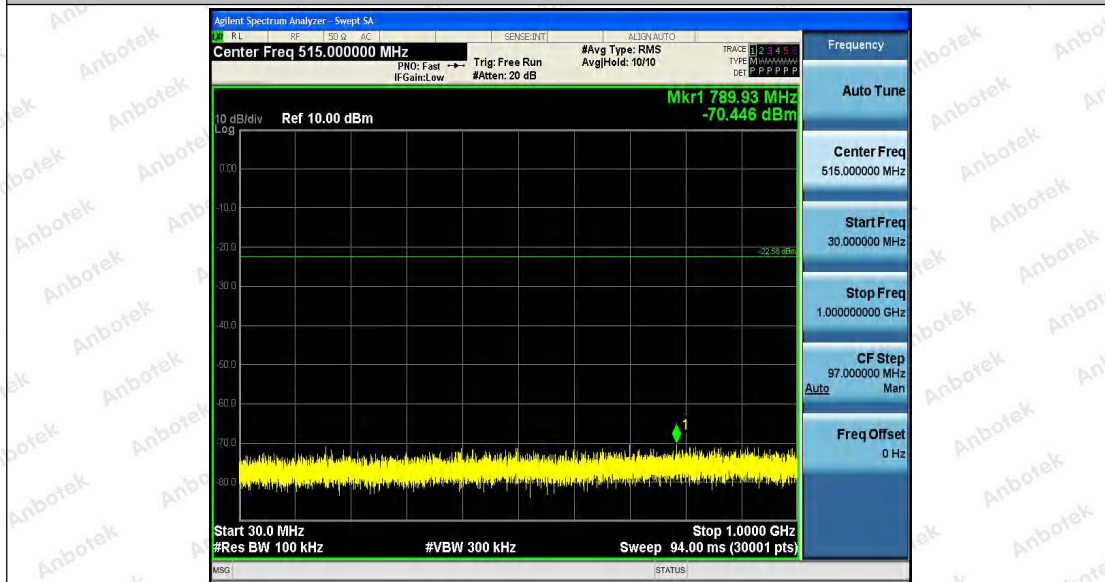
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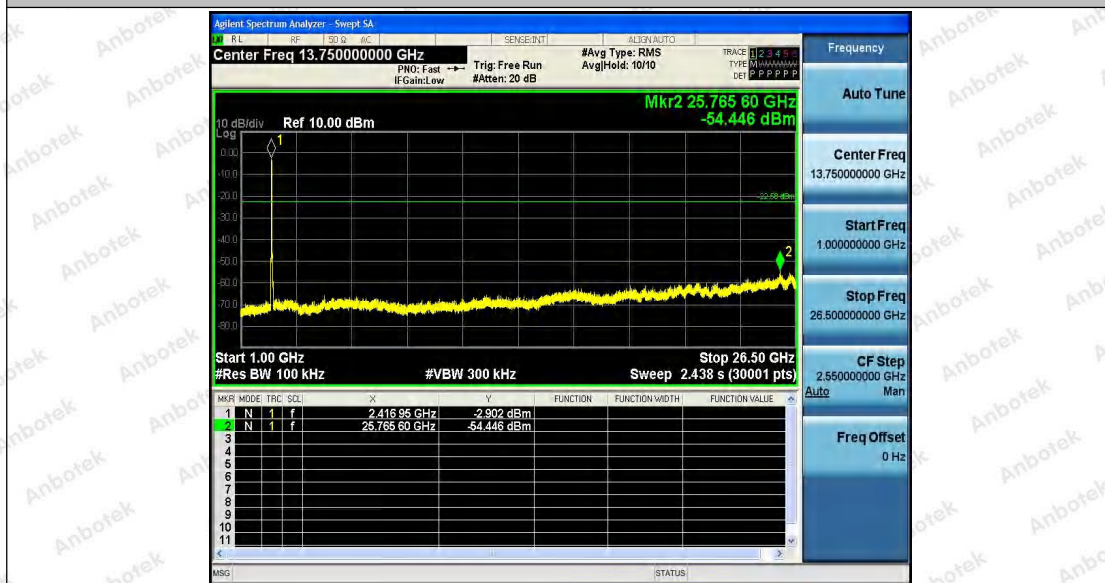
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11N40_Ant1_2422_30~1000



11N40_Ant1_2422_1000~26500

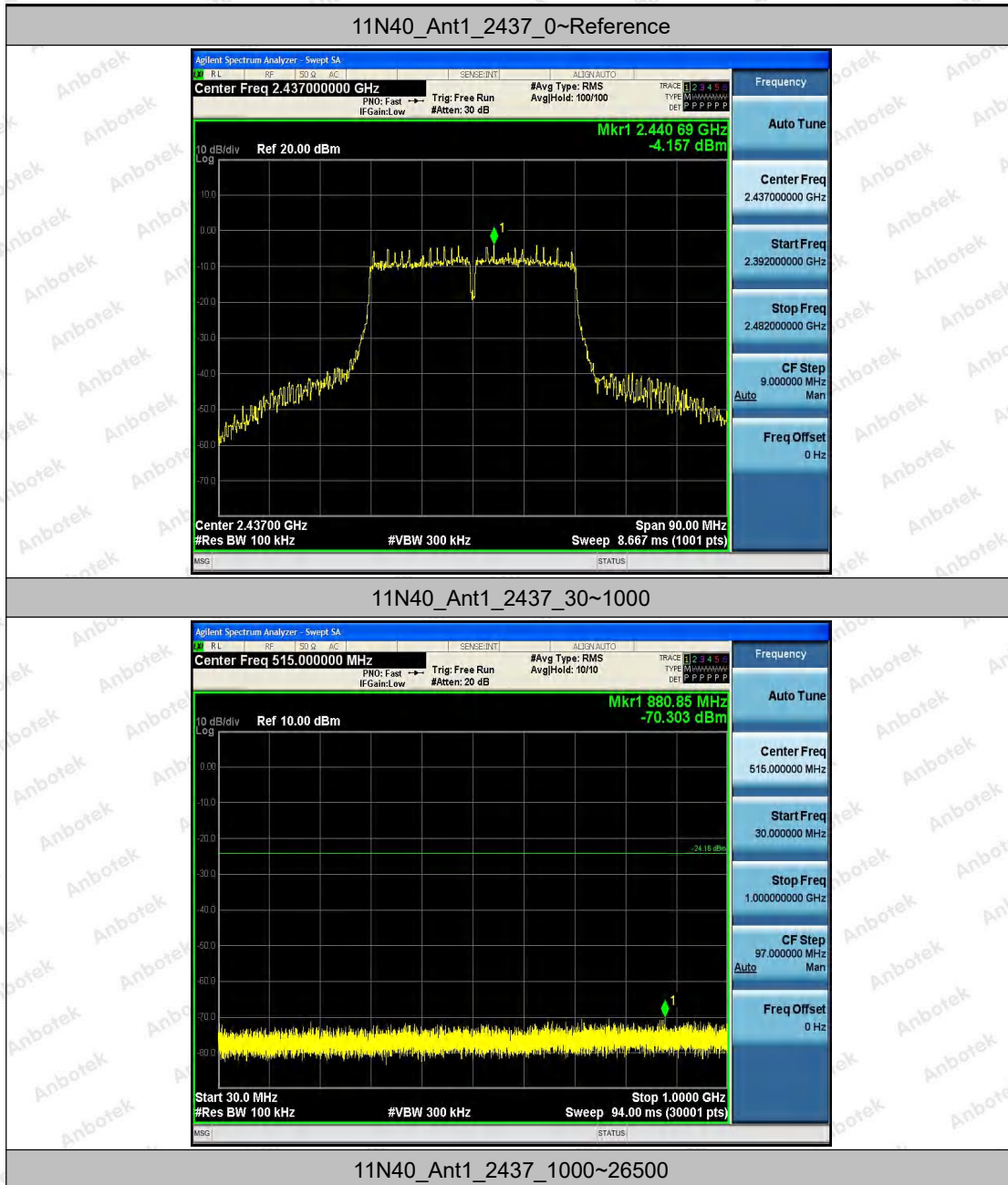


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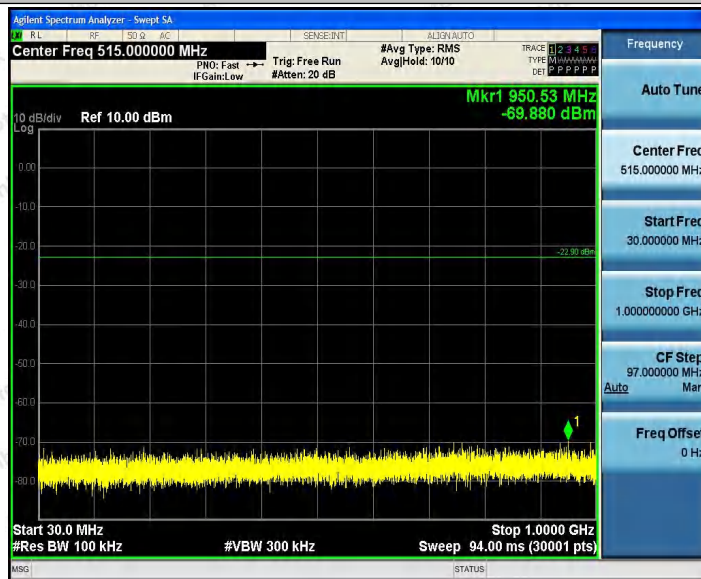
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11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000

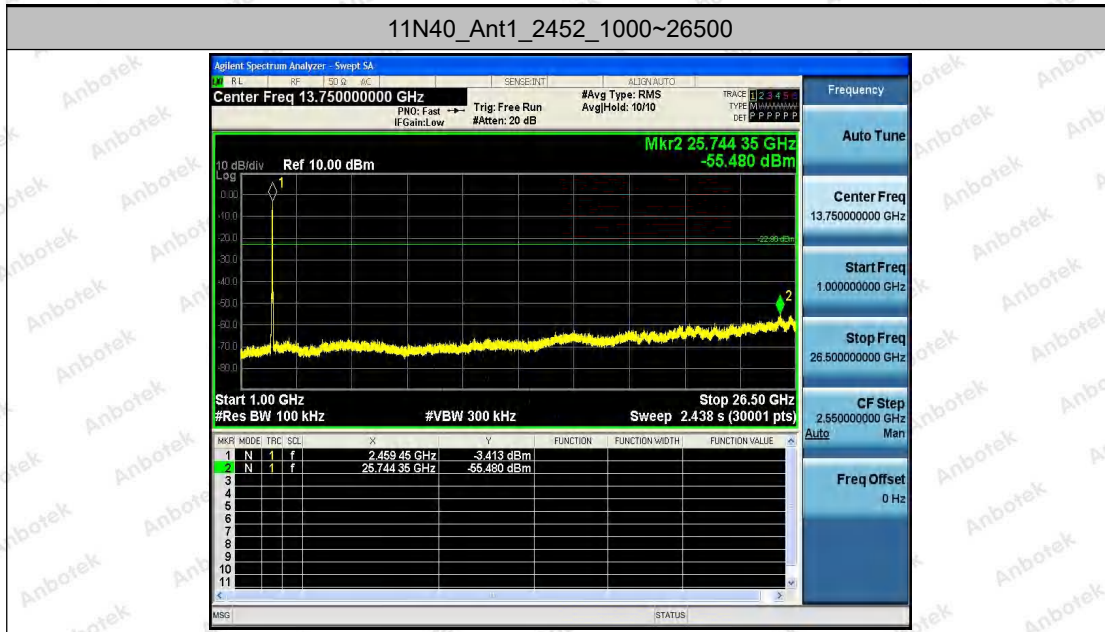


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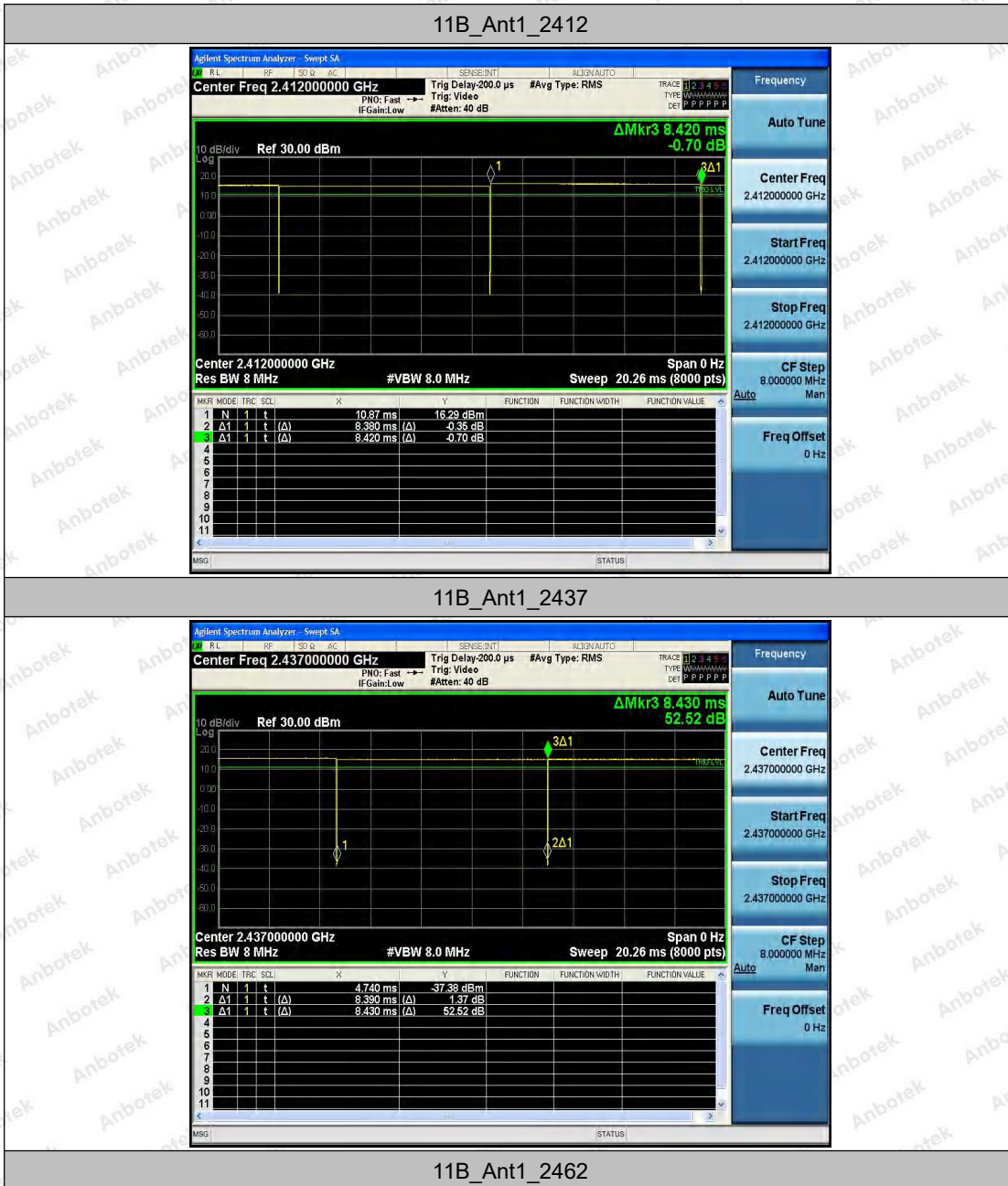
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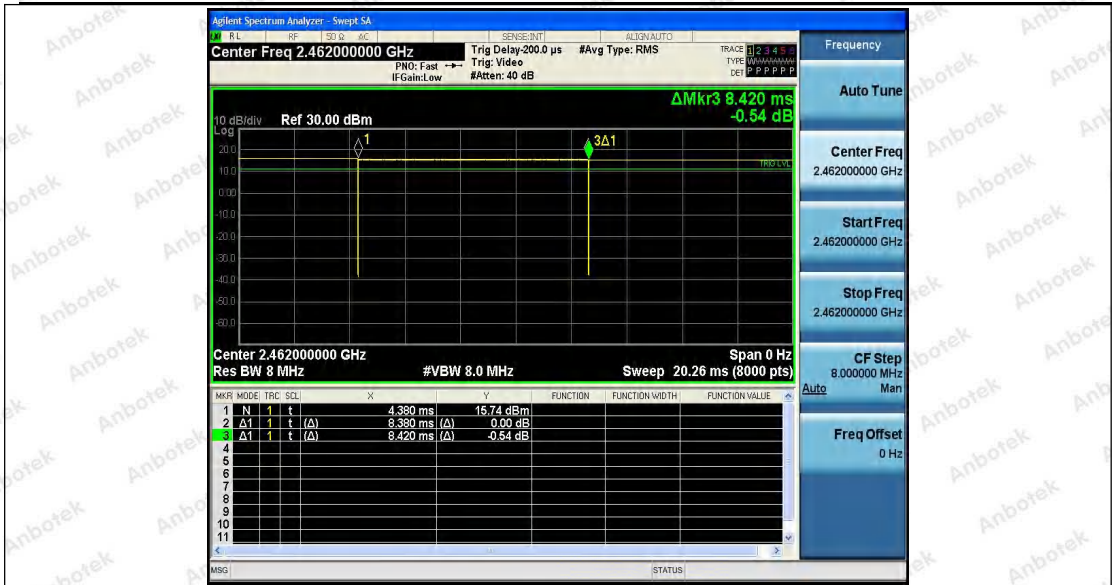
Appendix G: Duty Cycle

Test Result

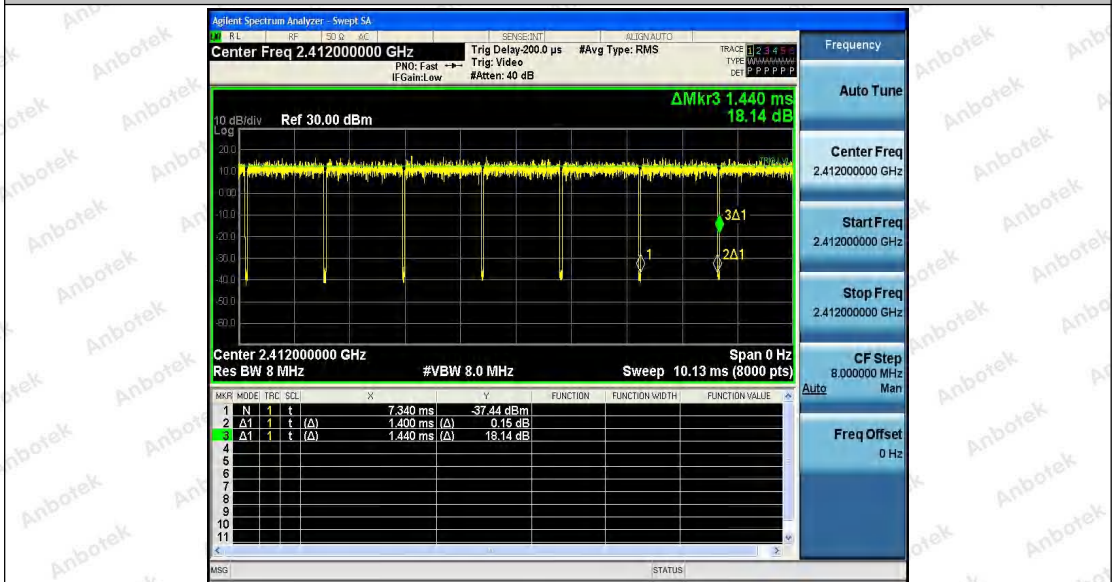
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.42	99.52	---	PASS
		2437	8.39	8.43	99.53	---	PASS
		2462	8.38	8.42	99.52	---	PASS
11G	Ant1	2412	1.40	1.44	97.22	---	PASS
		2437	1.40	1.44	97.22	---	PASS
		2462	1.39	1.44	96.53	---	PASS
11N20	Ant1	2412	1.29	1.34	96.27	---	PASS
		2437	1.29	1.33	96.99	---	PASS
		2462	1.28	1.33	96.24	---	PASS
11N40	Ant1	2422	0.63	0.68	92.65	---	PASS
		2437	0.63	0.68	92.65	---	PASS
		2452	0.63	0.68	92.65	---	PASS

Test Graphs

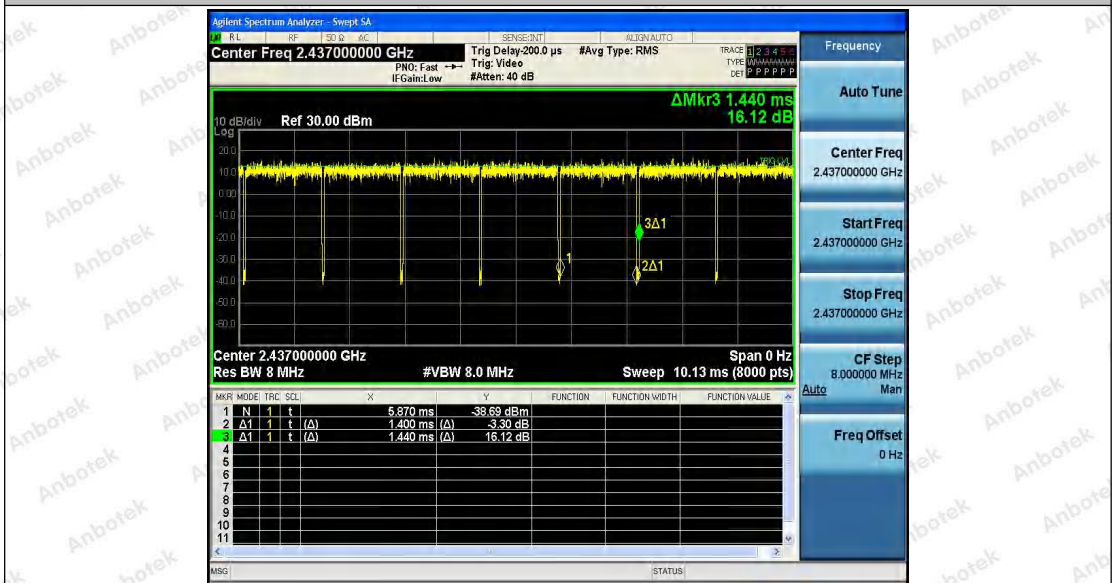




11G_Ant1_2412



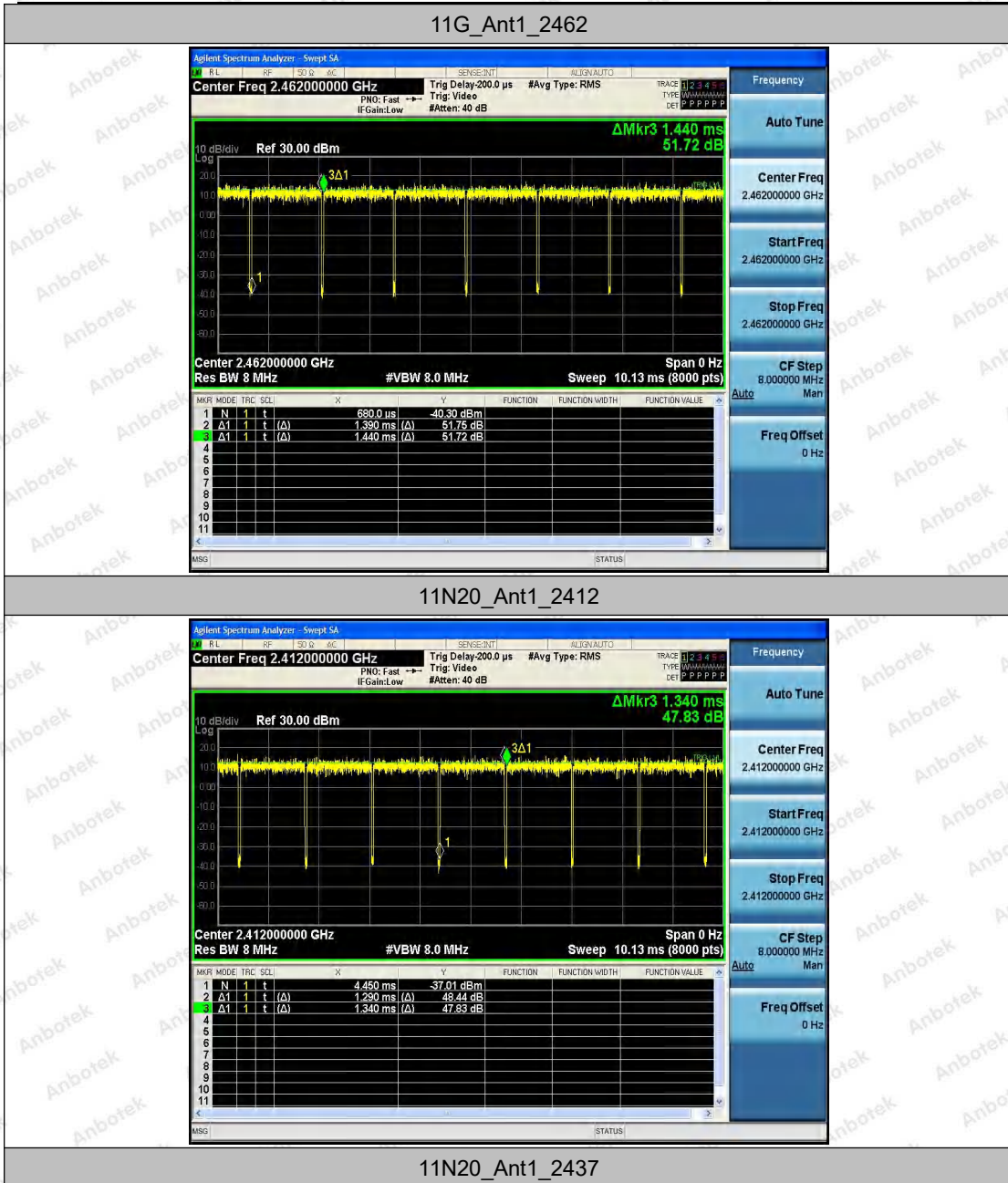
11G_Ant1_2437

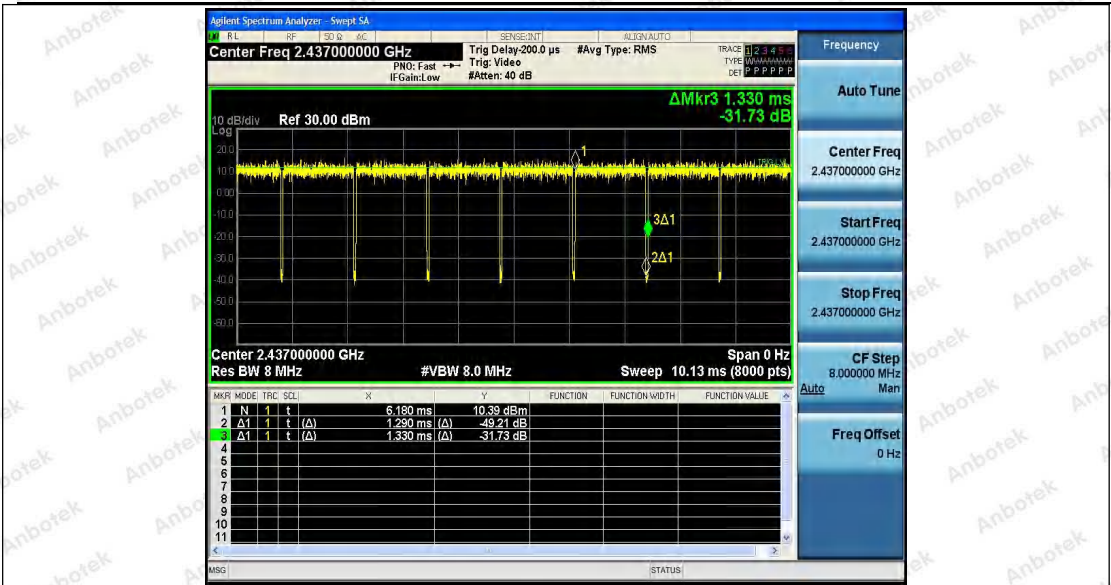


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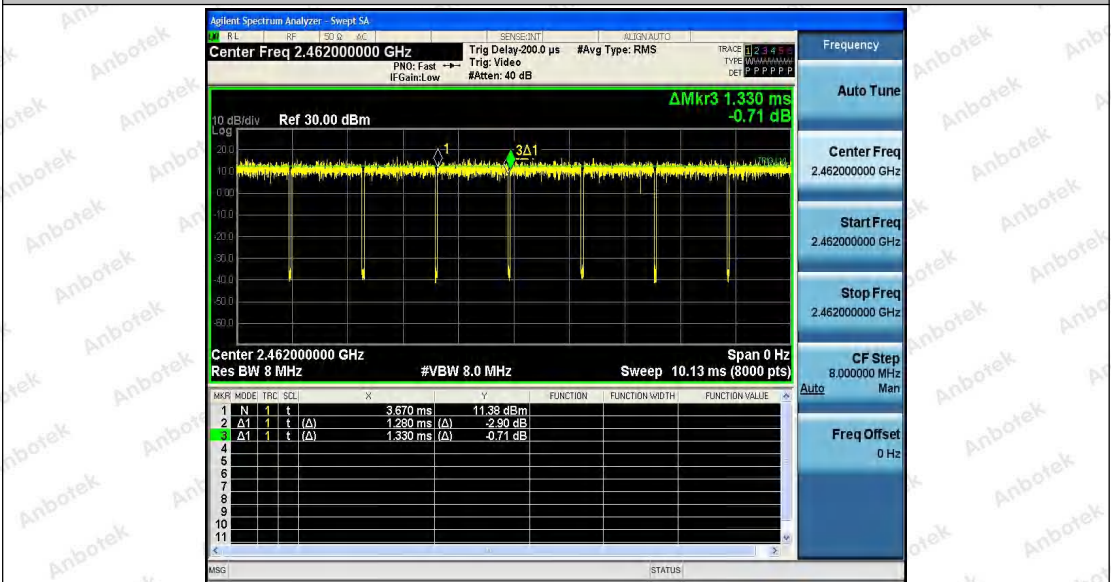
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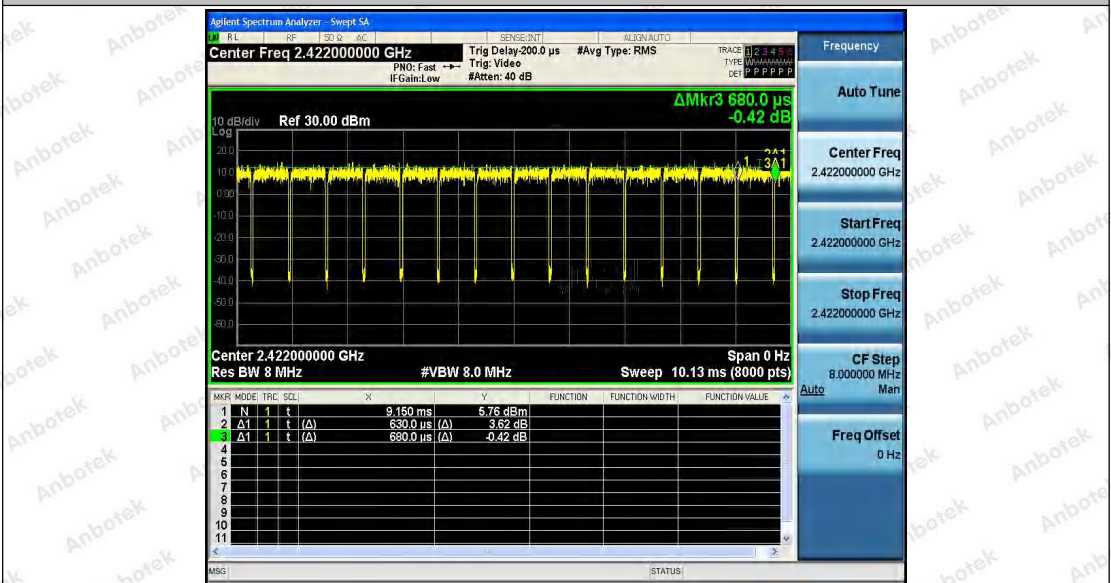




11N20_Ant1_2462



11N40_Ant1_2422

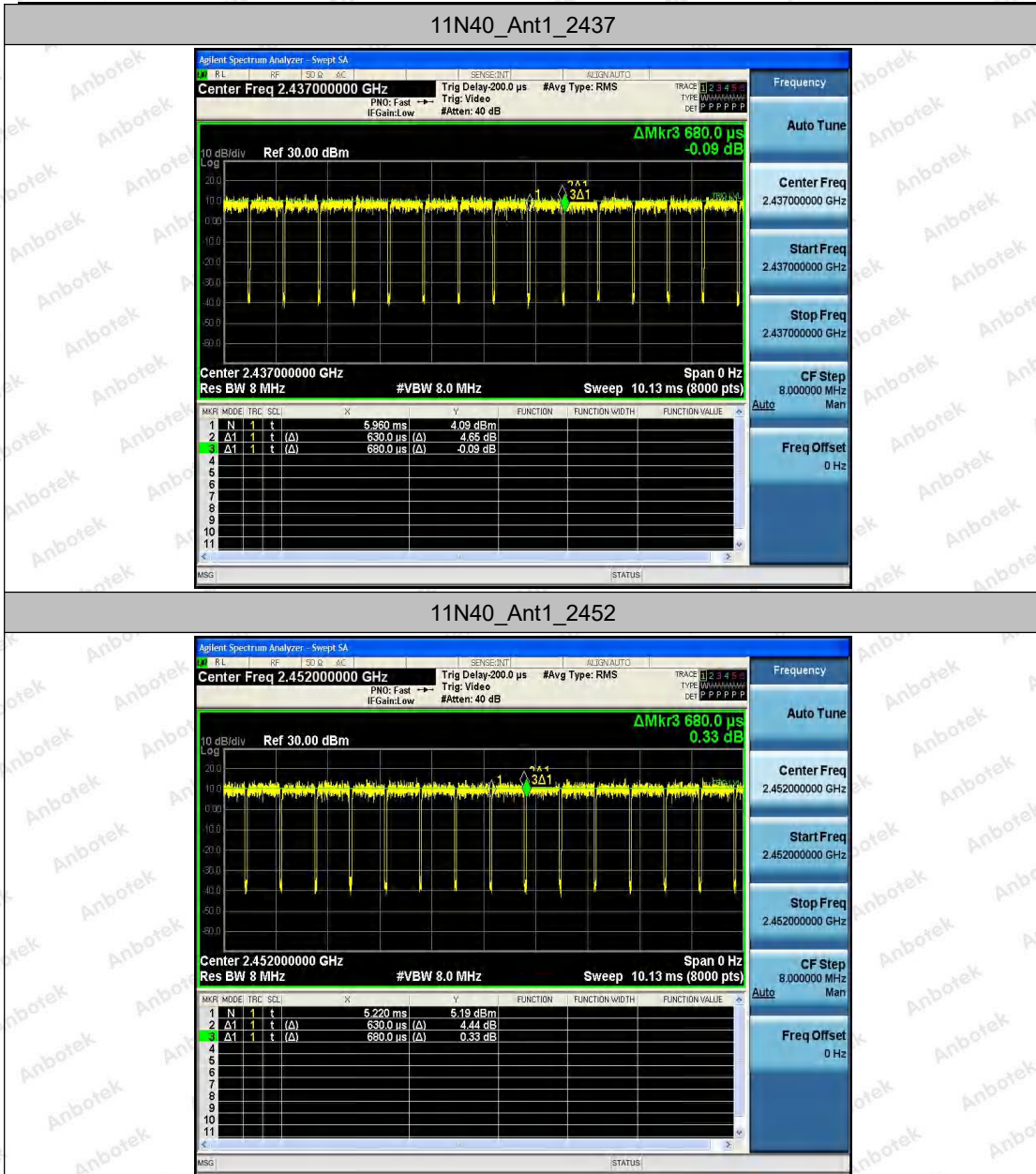


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