

Appendix Test Data

Report No.:	18220WC10273602	Test Sample No.:	1-2-2
Start Test Date:	2021.12.14	Finish Test Date:	2021.12.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	7.640	2407.960	2415.600	≥0.5	PASS
		2437	8.640	2432.920	2441.560	≥0.5	PASS
		2462	9.080	2457.440	2466.520	≥0.5	PASS
11G	Ant1	2412	15.120	2404.080	2419.200	≥0.5	PASS
		2437	13.920	2430.680	2444.600	≥0.5	PASS
		2462	15.000	2454.800	2469.800	≥0.5	PASS
11N20	Ant1	2412	15.760	2403.800	2419.560	≥0.5	PASS
		2437	14.520	2430.080	2444.600	≥0.5	PASS
		2462	17.120	2453.400	2470.520	≥0.5	PASS
11N40	Ant1	2422	35.280	2404.360	2439.640	≥0.5	PASS
		2437	35.100	2419.480	2454.580	≥0.5	PASS
		2452	35.160	2434.420	2469.580	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



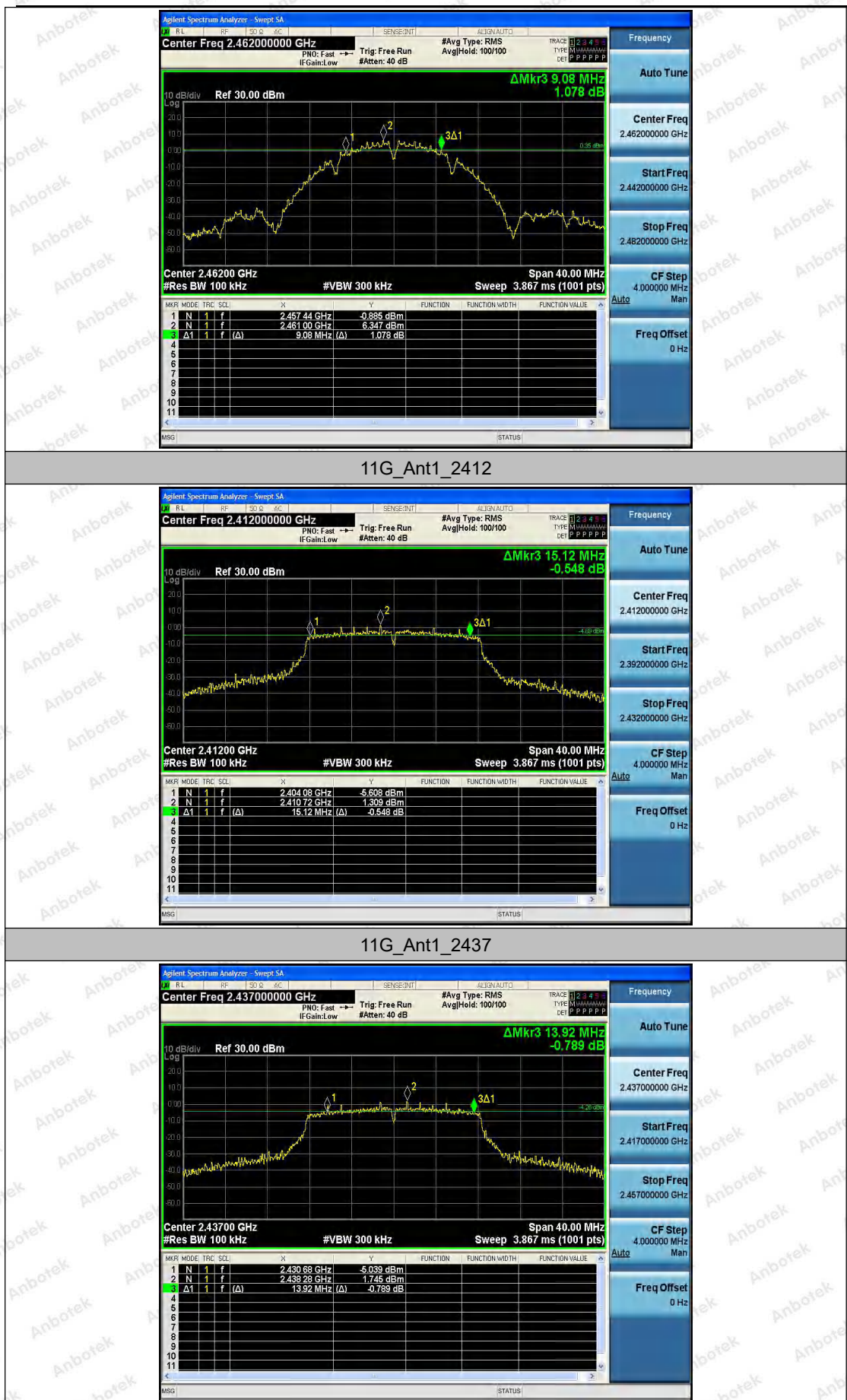
11B_Ant1_2462

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11G_Ant1_2462



11N20_Ant1_2412



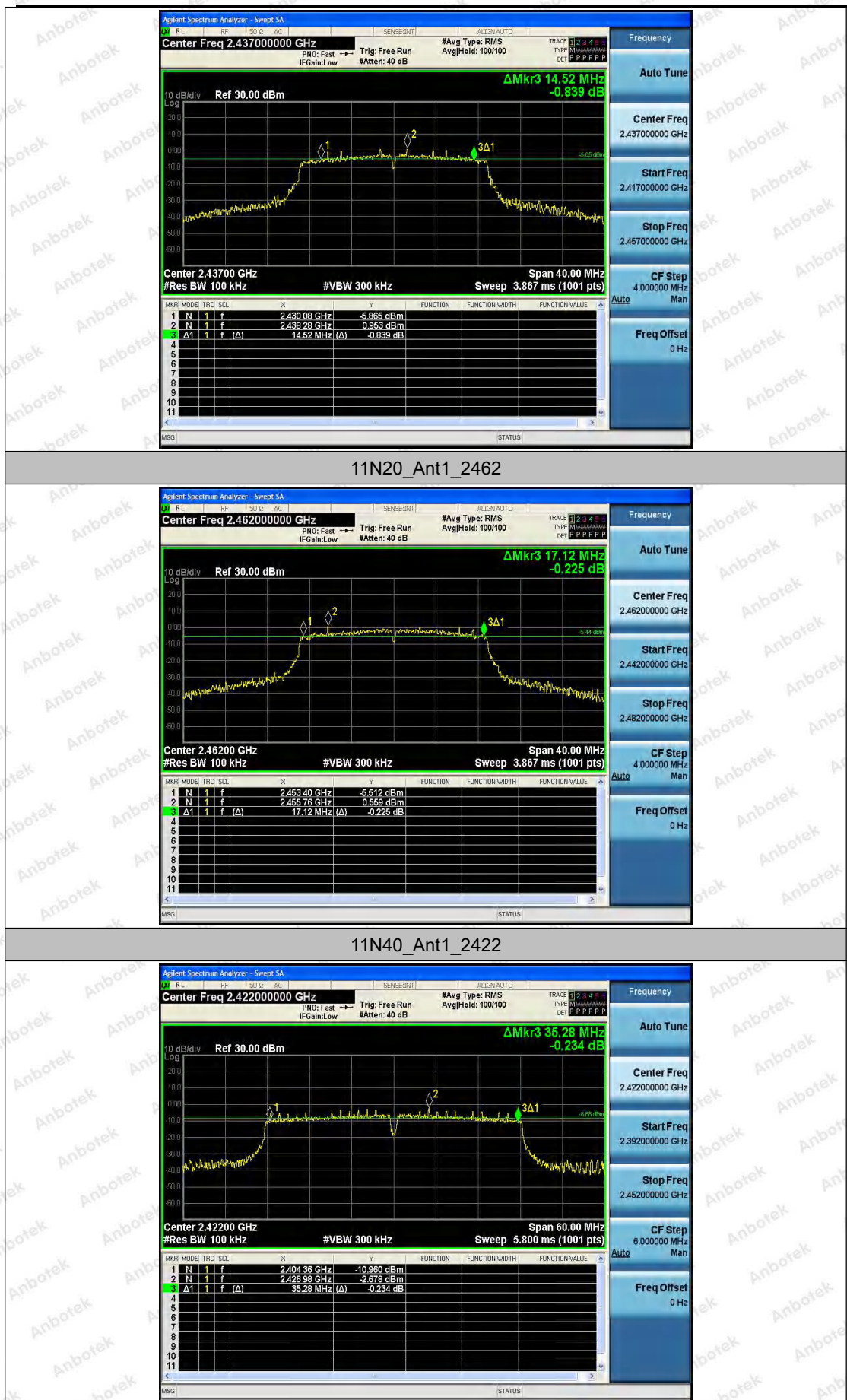
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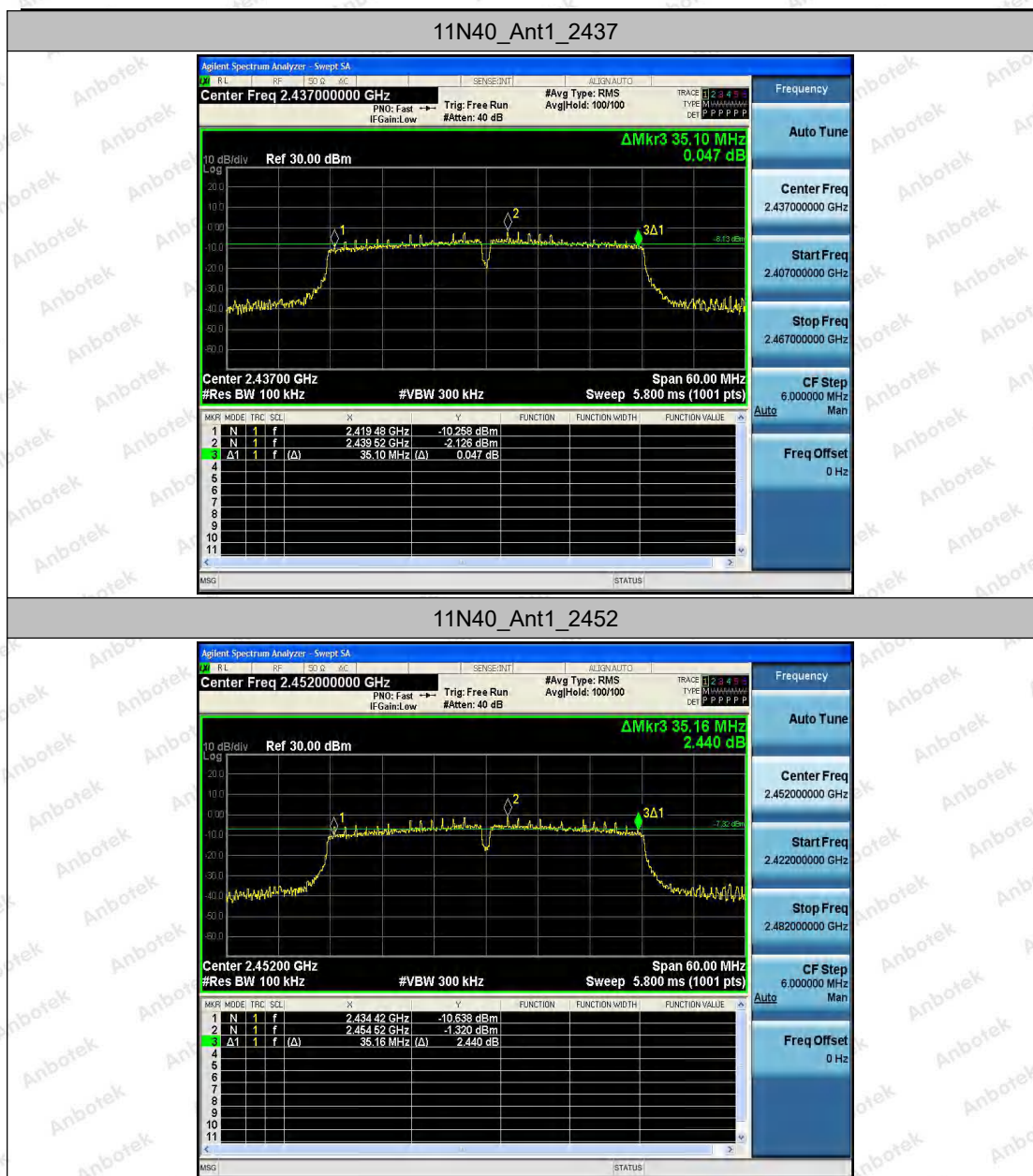


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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.514	2405.153	2418.667	---	PASS
		2437	13.393	2430.361	2443.754	---	PASS
		2462	13.285	2455.366	2468.651	---	PASS
11G	Ant1	2412	16.977	2403.425	2420.402	---	PASS
		2437	16.938	2428.620	2445.558	---	PASS
		2462	16.818	2453.618	2470.436	---	PASS
11N20	Ant1	2412	17.976	2402.939	2420.915	---	PASS
		2437	17.879	2428.124	2446.003	---	PASS
		2462	17.912	2453.027	2470.939	---	PASS
11N40	Ant1	2422	36.137	2403.913	2440.050	---	PASS
		2437	36.024	2419.082	2455.106	---	PASS
		2452	36.020	2434.075	2470.095	---	PASS

Test Graphs

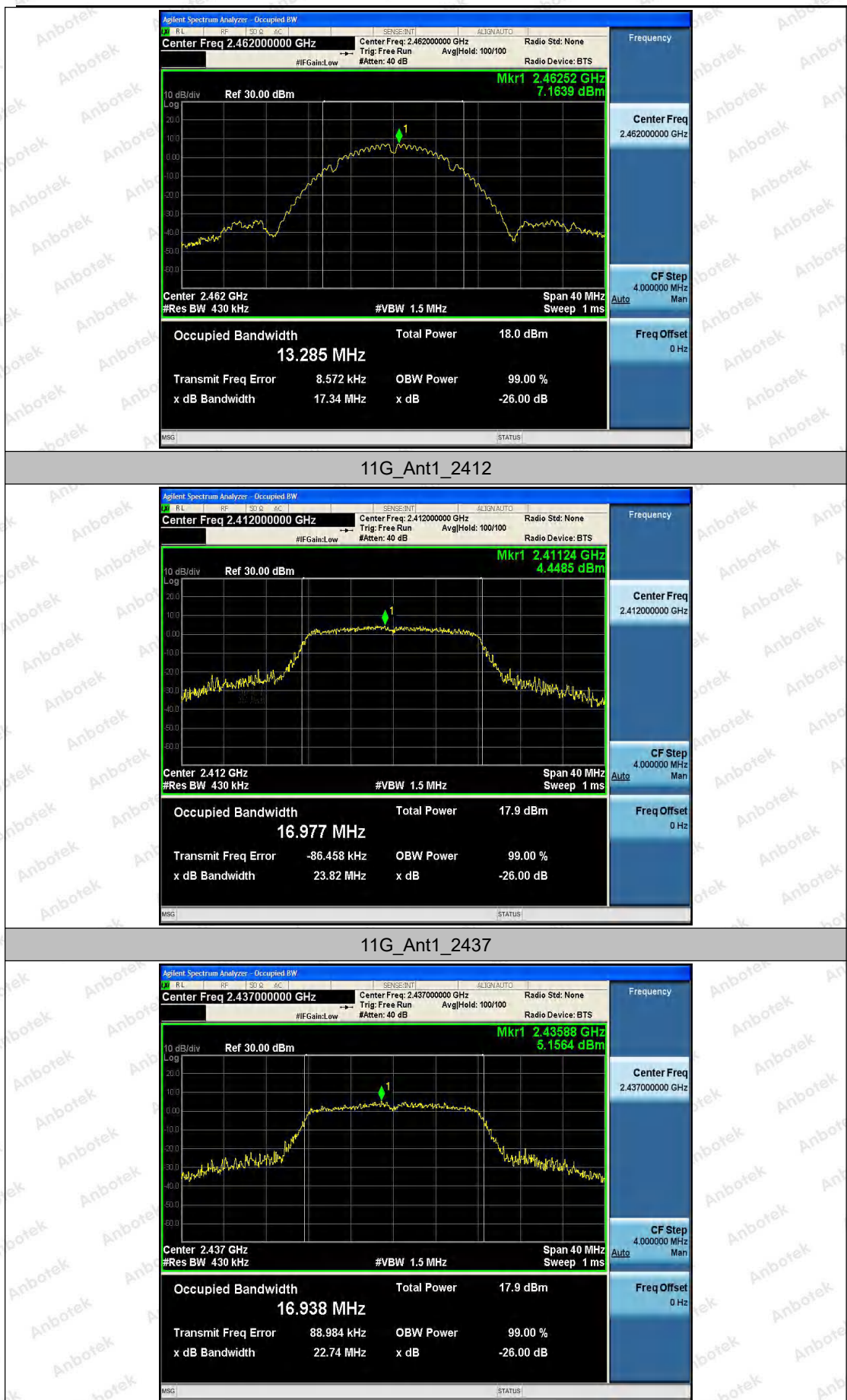


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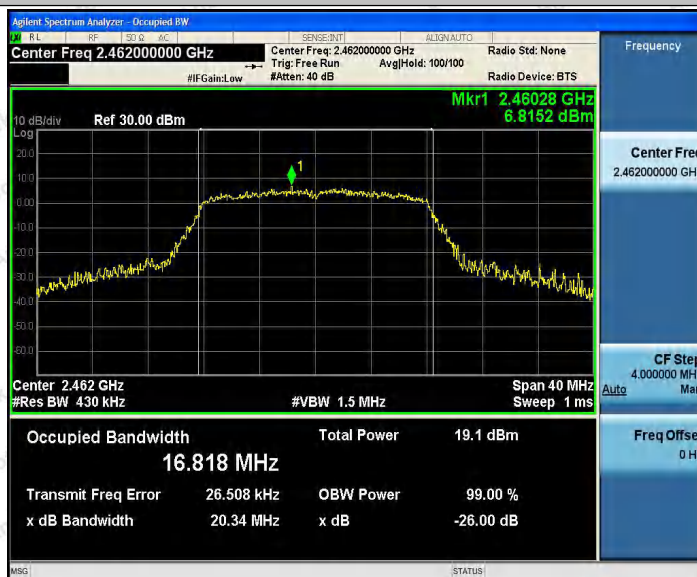
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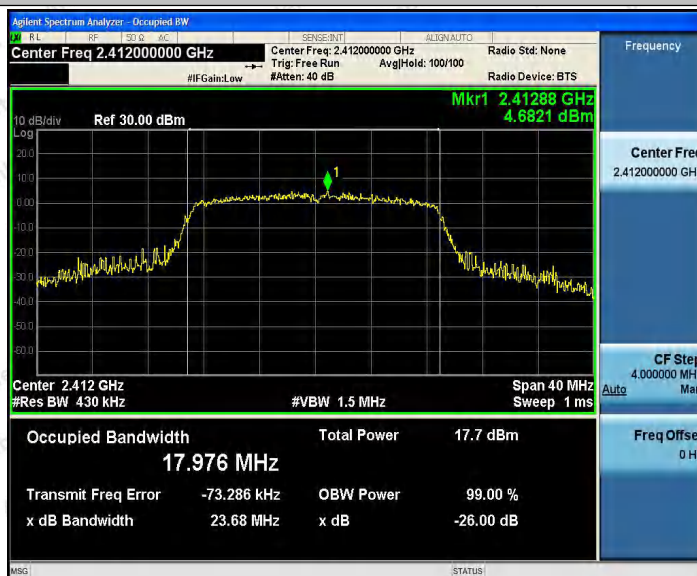
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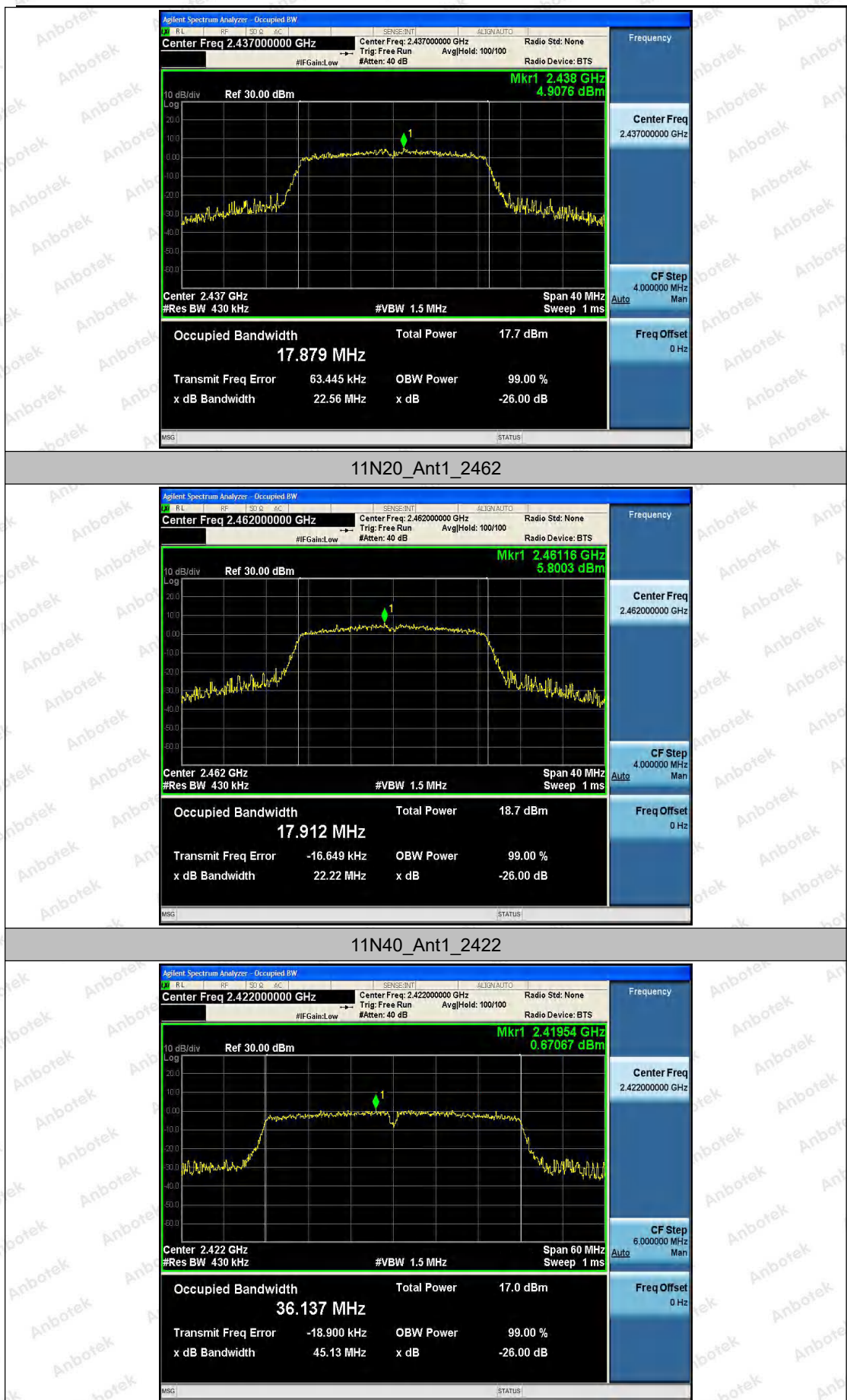
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

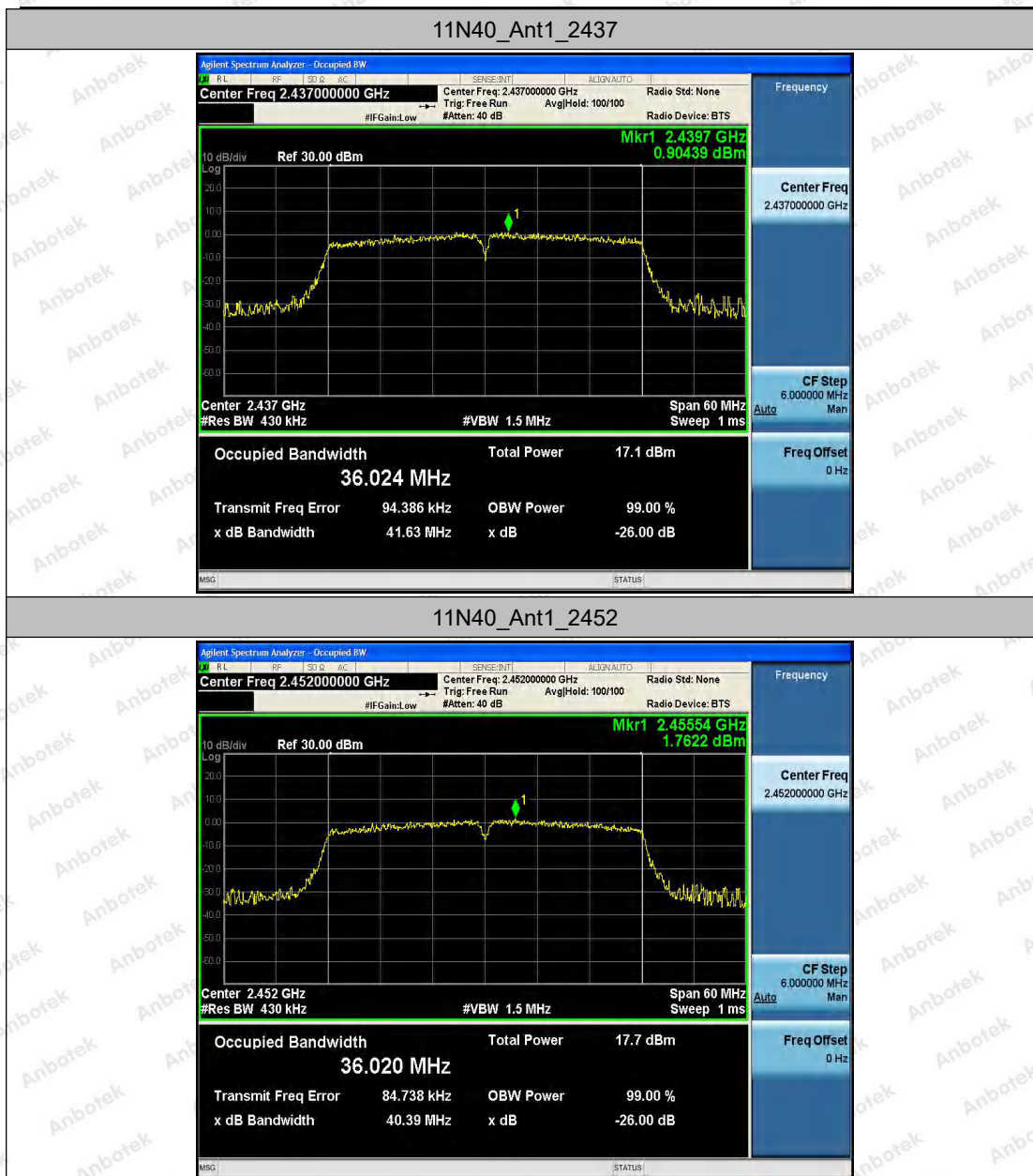


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Appendix C: Maximum conducted output power

Test Result

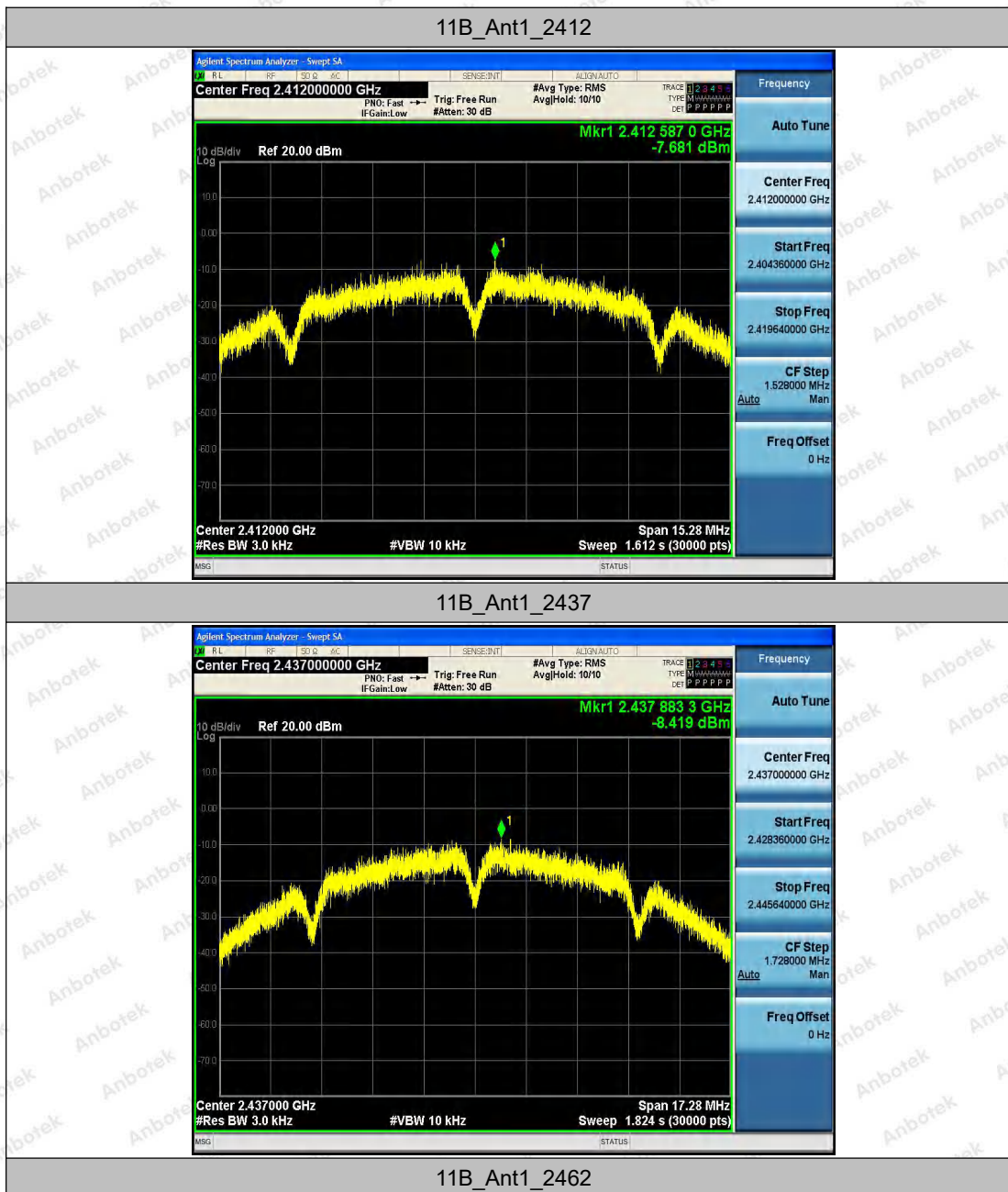
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.74	≤30	PASS
		2437	16.72	≤30	PASS
		2462	18.00	≤30	PASS
11G	Ant1	2412	19.01	≤30	PASS
		2437	18.92	≤30	PASS
		2462	20.07	≤30	PASS
11N20	Ant1	2412	18.72	≤30	PASS
		2437	18.76	≤30	PASS
		2462	19.71	≤30	PASS
11N40	Ant1	2422	16.07	≤30	PASS
		2437	16.11	≤30	PASS
		2452	17.03	≤30	PASS

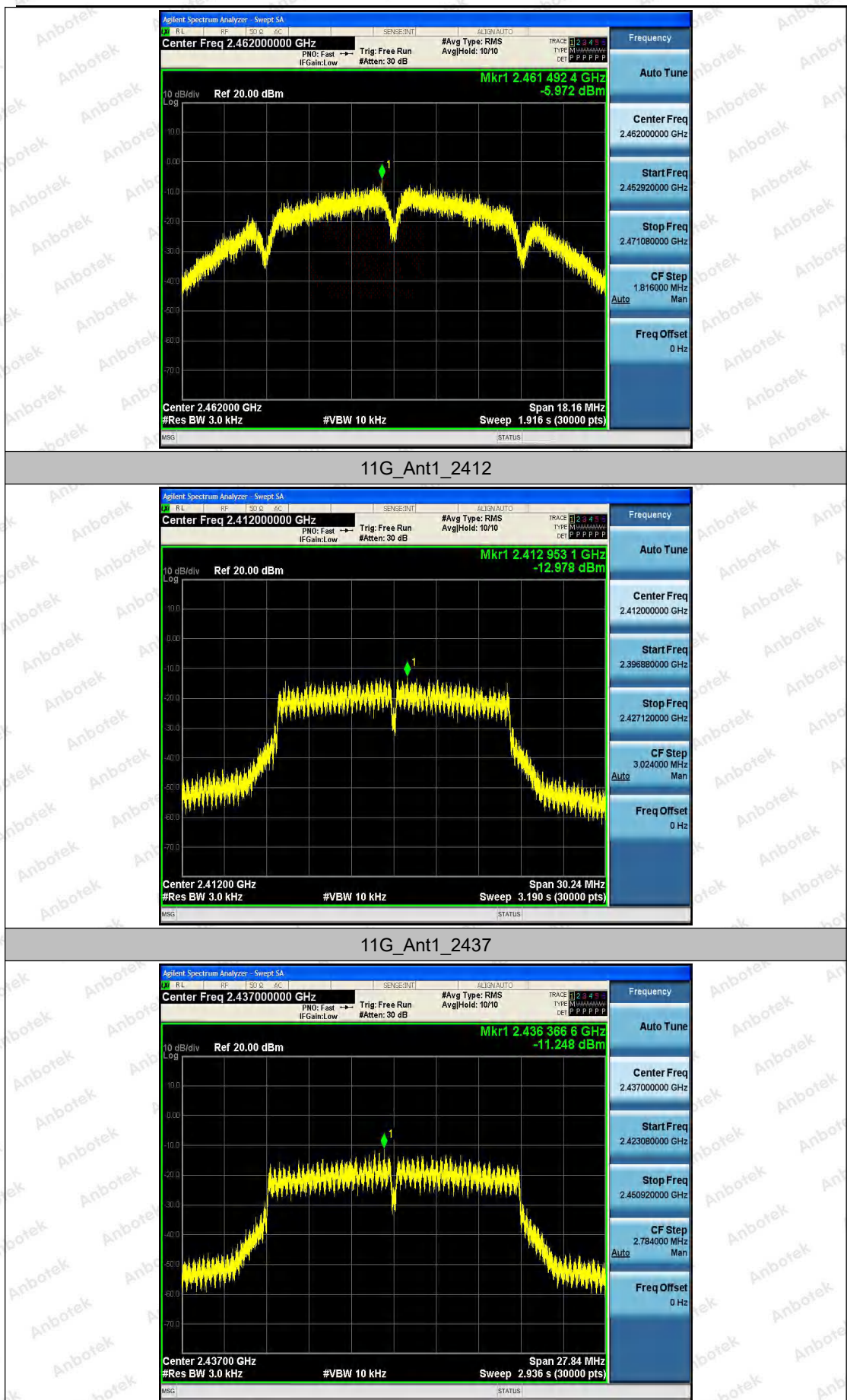
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.68	≤8	PASS
		2437	-8.42	≤8	PASS
		2462	-5.97	≤8	PASS
11G	Ant1	2412	-12.98	≤8	PASS
		2437	-11.25	≤8	PASS
		2462	-11.4	≤8	PASS
11N20	Ant1	2412	-13.62	≤8	PASS
		2437	-12.56	≤8	PASS
		2462	-11.54	≤8	PASS
11N40	Ant1	2422	-15.31	≤8	PASS
		2437	-15.17	≤8	PASS
		2452	-15.21	≤8	PASS

Test Graphs



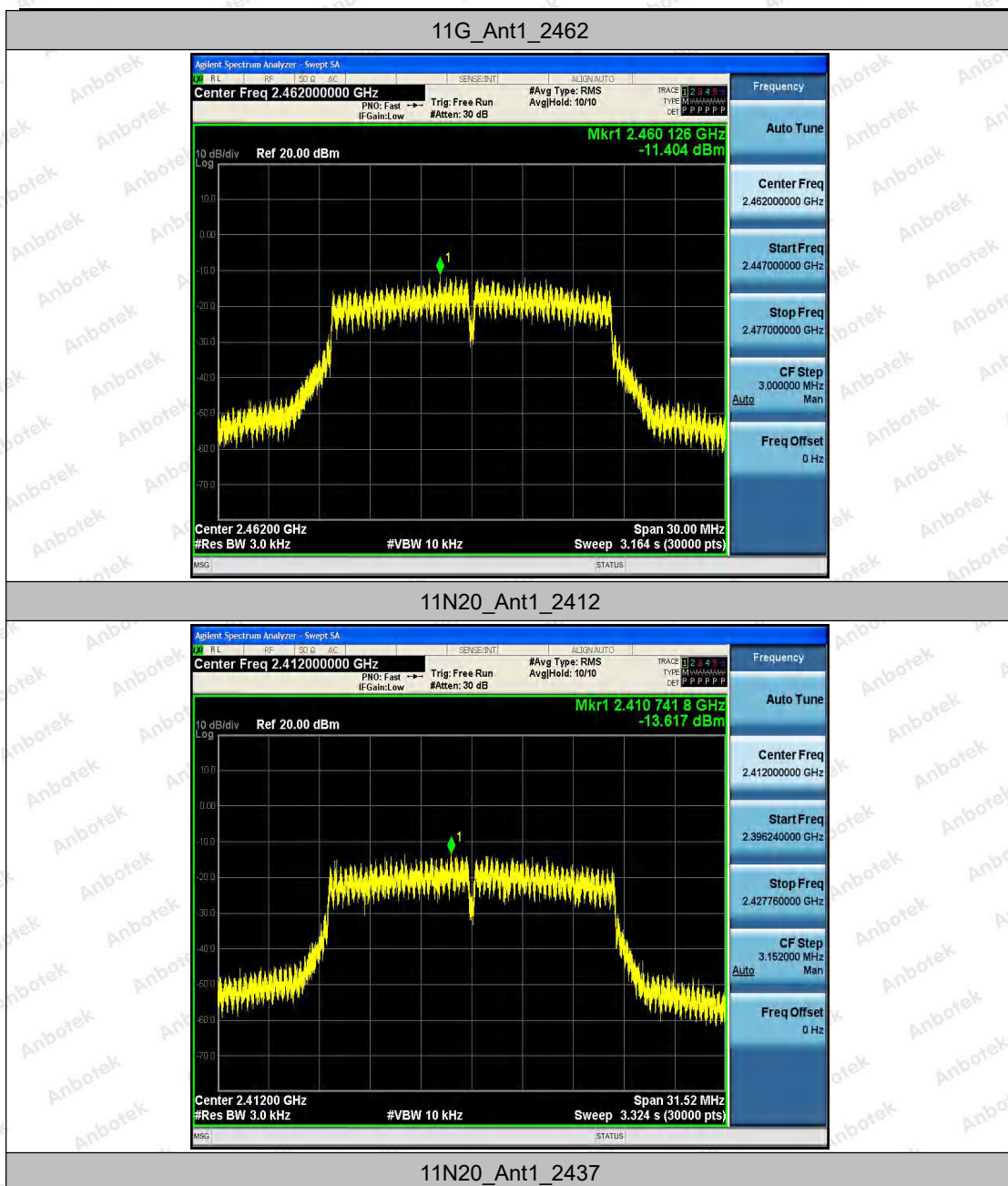


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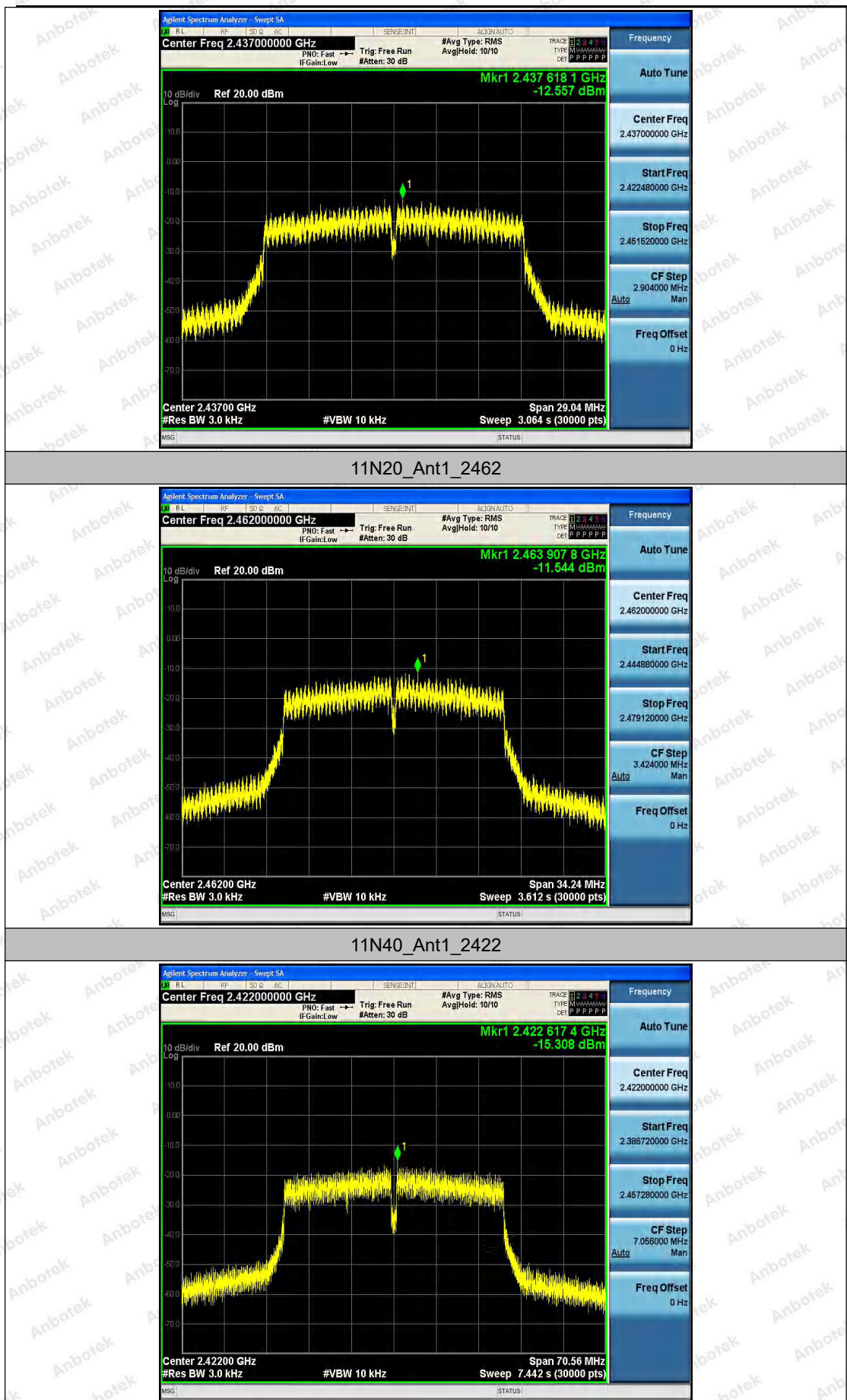


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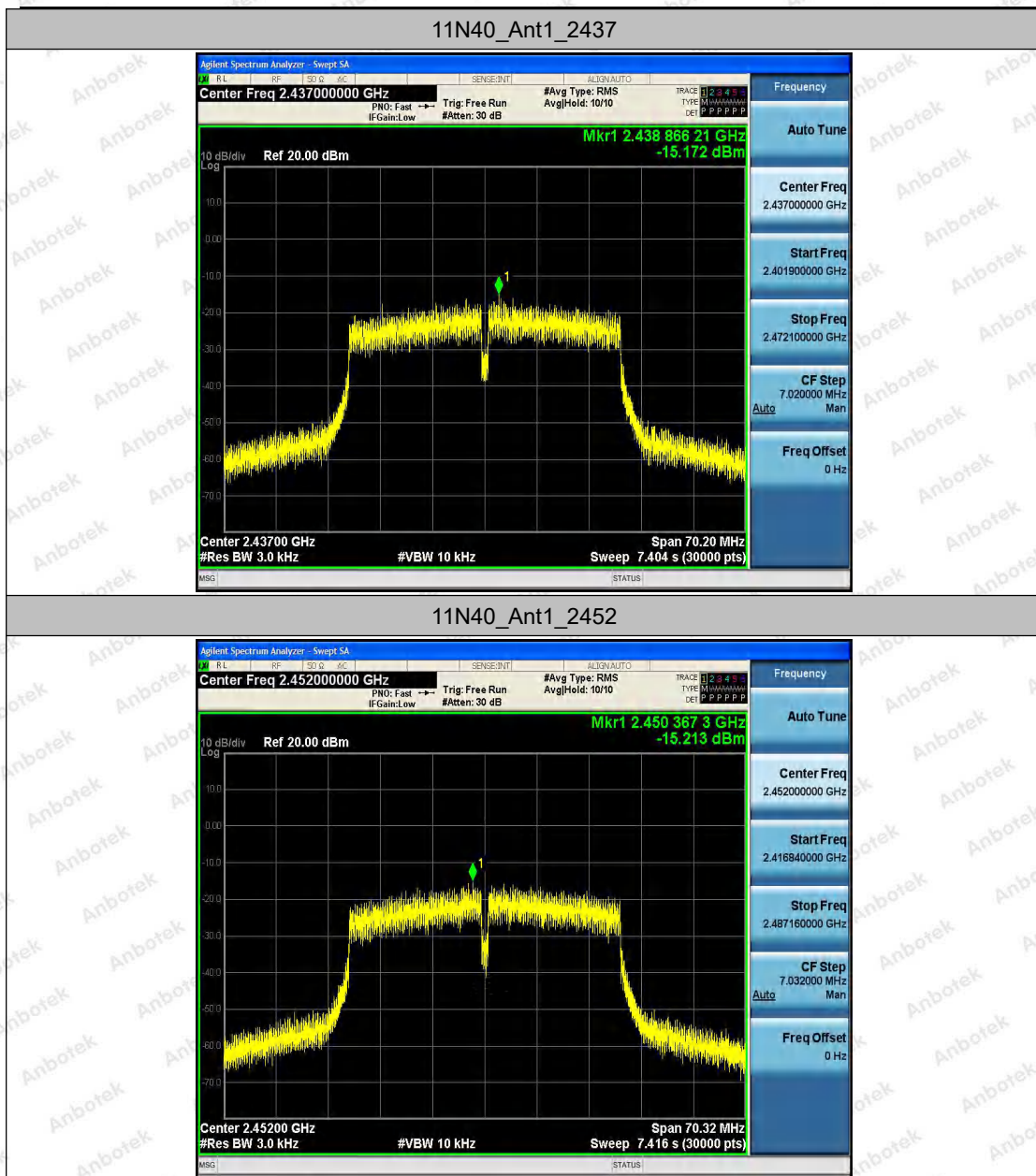


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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.44	-33.8	≤-14.56	PASS
		High	2462	6.95	-49.26	≤-13.05	PASS
11G	Ant1	Low	2412	1.75	-28.81	≤-18.26	PASS
		High	2462	2.16	-44.69	≤-17.84	PASS
11N20	Ant1	Low	2412	1.38	-27.14	≤-18.62	PASS
		High	2462	1.92	-42.84	≤-18.08	PASS
11N40	Ant1	Low	2422	-2.61	-33.18	≤-22.61	PASS
		High	2452	-1.22	-36.2	≤-21.22	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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11G_Ant1_High_2462



11N20_Ant1_Low_2412



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11N20_Ant1_High_2462



11N40_Ant1_Low_2422



11N40_Ant1_High_2452

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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	5.79	5.79	---	PASS
			30~1000	5.79	-53.97	≤-14.21	PASS
			1000~26500	5.79	-47.39	≤-14.21	PASS
		2437	Reference	4.77	4.77	---	PASS
			30~1000	4.77	-52.65	≤-15.23	PASS
			1000~26500	4.77	-47.16	≤-15.23	PASS
		2462	Reference	6.99	6.99	---	PASS
			30~1000	6.99	-51.93	≤-13.01	PASS
			1000~26500	6.99	-47.92	≤-13.01	PASS
11G	Ant1	2412	Reference	0.96	0.96	---	PASS
			30~1000	0.96	-50.58	≤-19.04	PASS
			1000~26500	0.96	-56.18	≤-19.04	PASS
		2437	Reference	1.78	1.78	---	PASS
			30~1000	1.78	-53.42	≤-18.22	PASS
			1000~26500	1.78	-55.64	≤-18.22	PASS
		2462	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-51.9	≤-18.2	PASS
			1000~26500	1.80	-55.95	≤-18.2	PASS
11N20	Ant1	2412	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-49.92	≤-18.89	PASS
			1000~26500	1.11	-55.14	≤-18.89	PASS
		2437	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-51.31	≤-18.99	PASS
			1000~26500	1.02	-55.46	≤-18.99	PASS
		2462	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-51.36	≤-17.7	PASS
			1000~26500	2.30	-55.85	≤-17.7	PASS
11N40	Ant1	2422	Reference	-2.35	-2.35	---	PASS
			30~1000	-2.35	-52.78	≤-22.35	PASS
			1000~26500	-2.35	-54.21	≤-22.35	PASS
		2437	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-50.75	≤-22.51	PASS
			1000~26500	-2.51	-55.45	≤-22.51	PASS
		2452	Reference	-1.26	-1.26	---	PASS
			30~1000	-1.26	-55.76	≤-21.26	PASS
			1000~26500	-1.26	-55.98	≤-21.26	PASS

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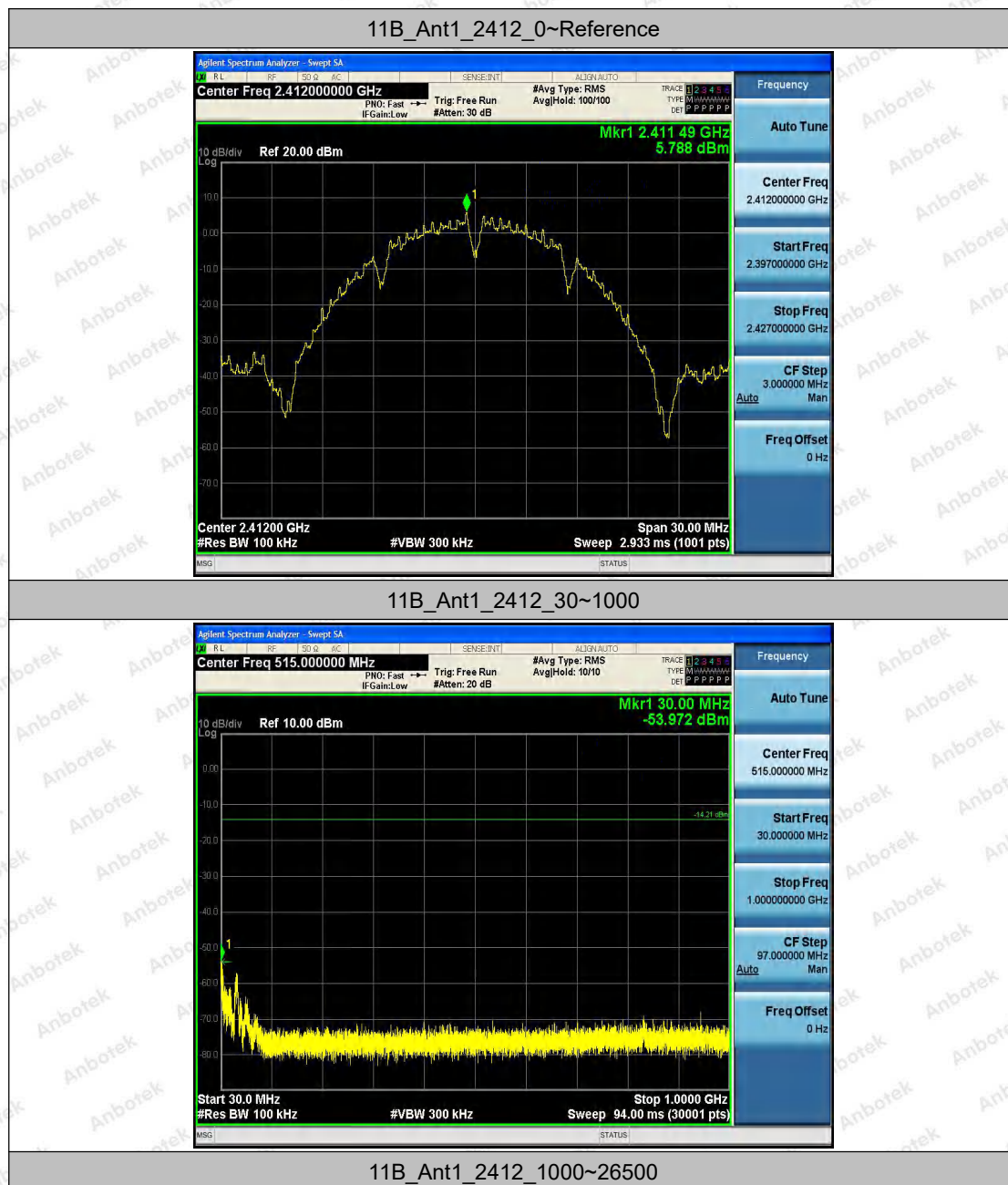


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Test Graphs

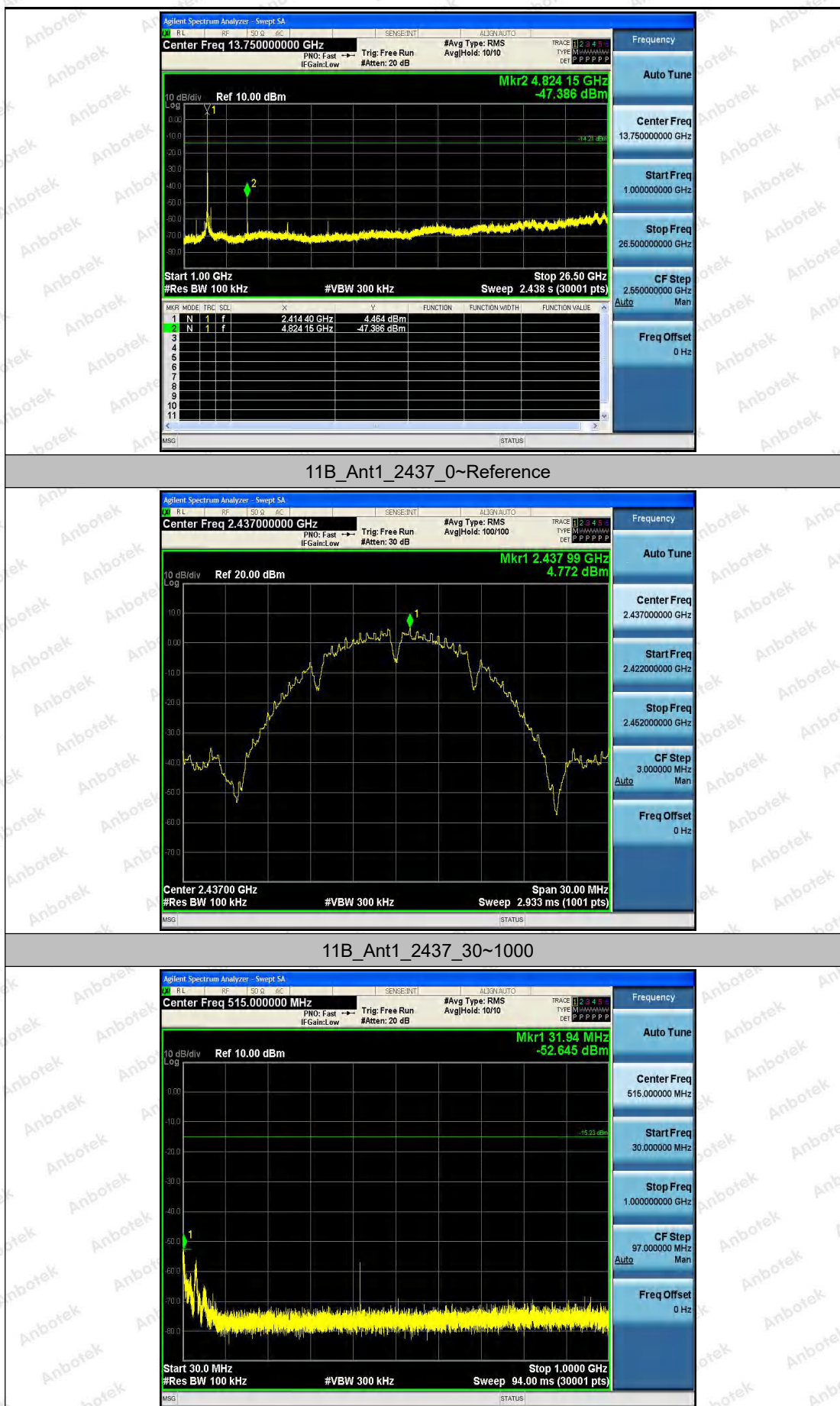


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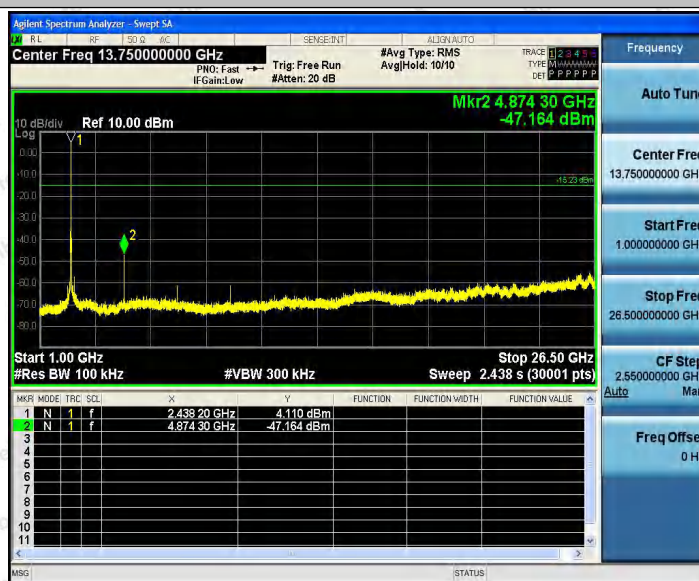
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



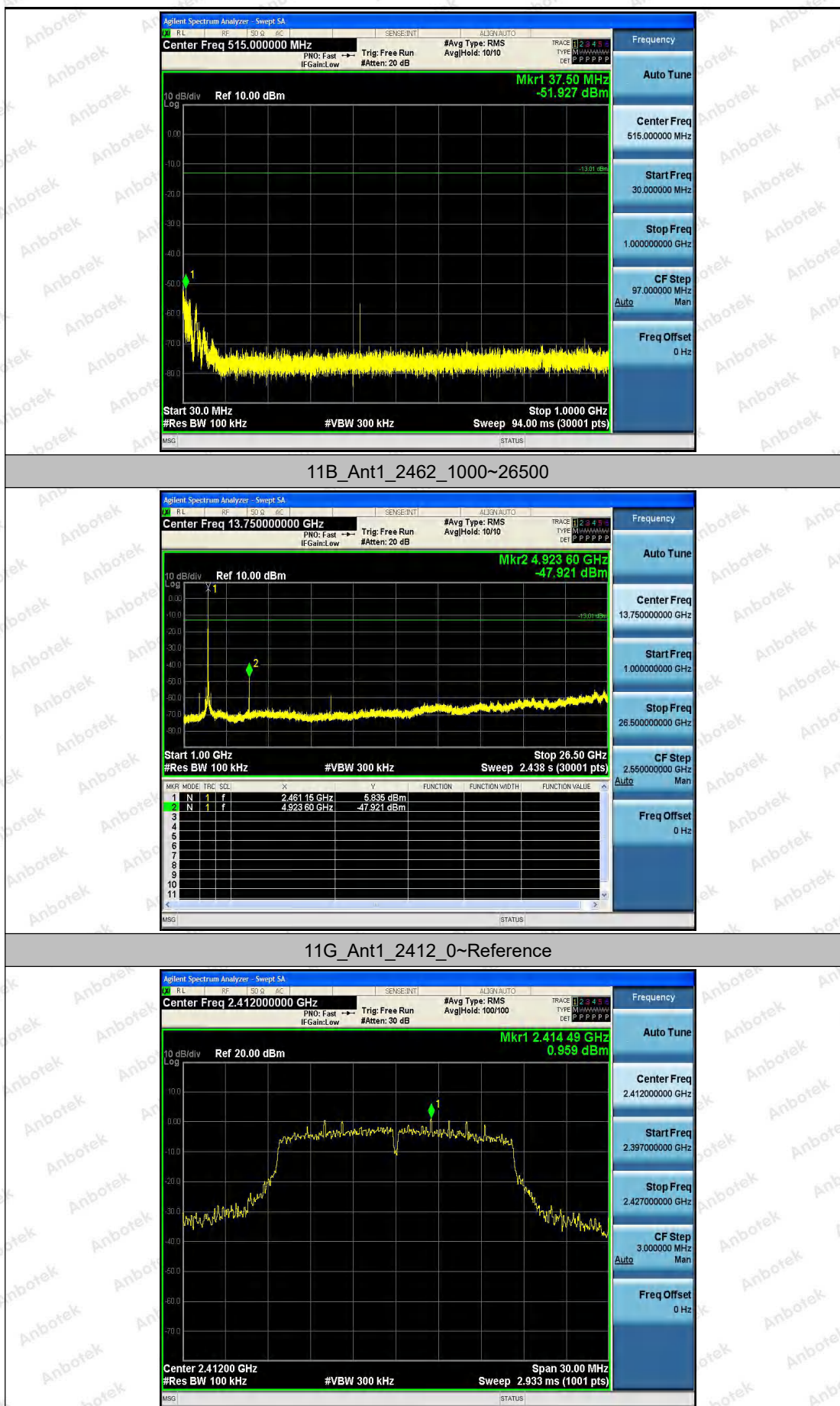
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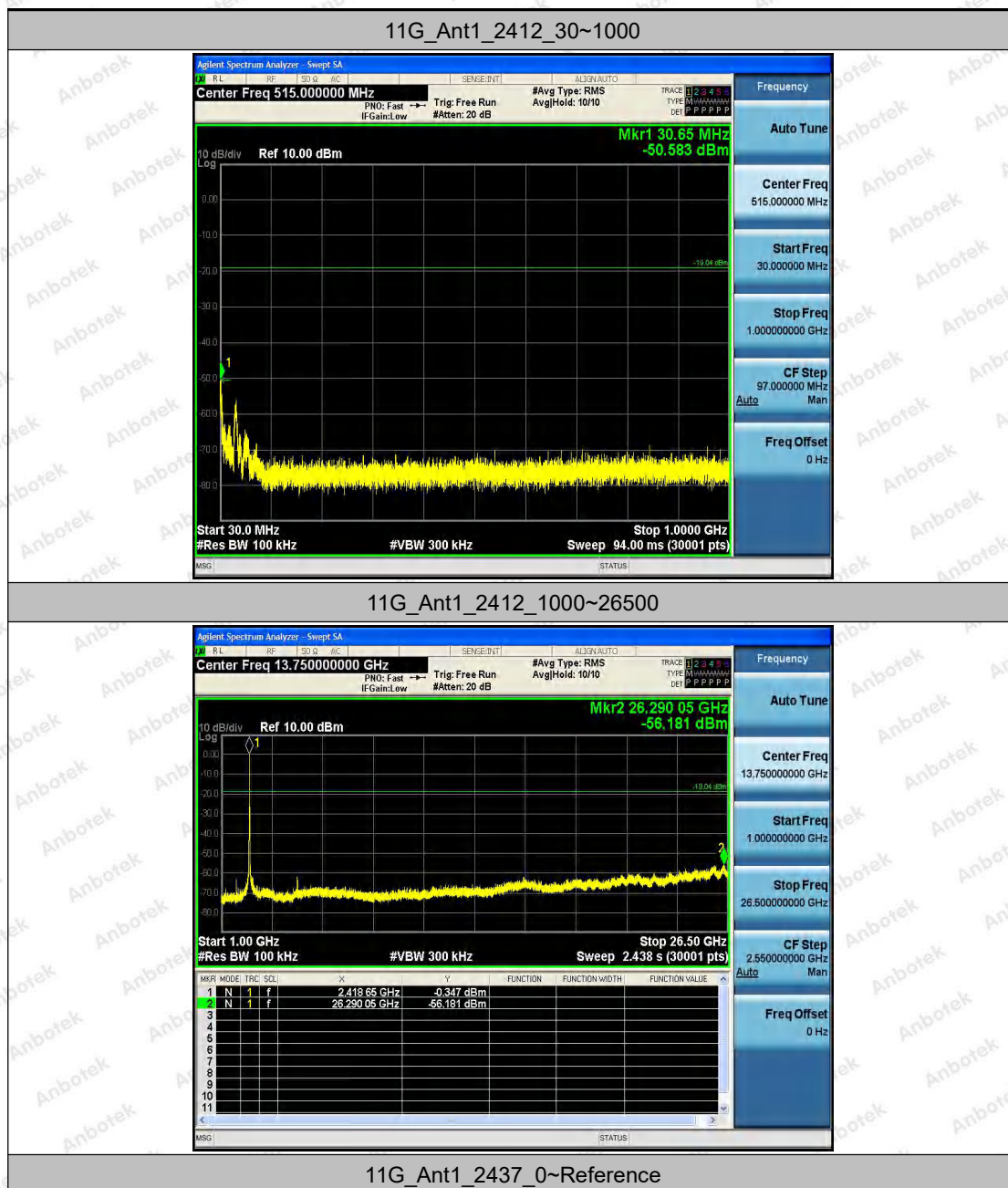


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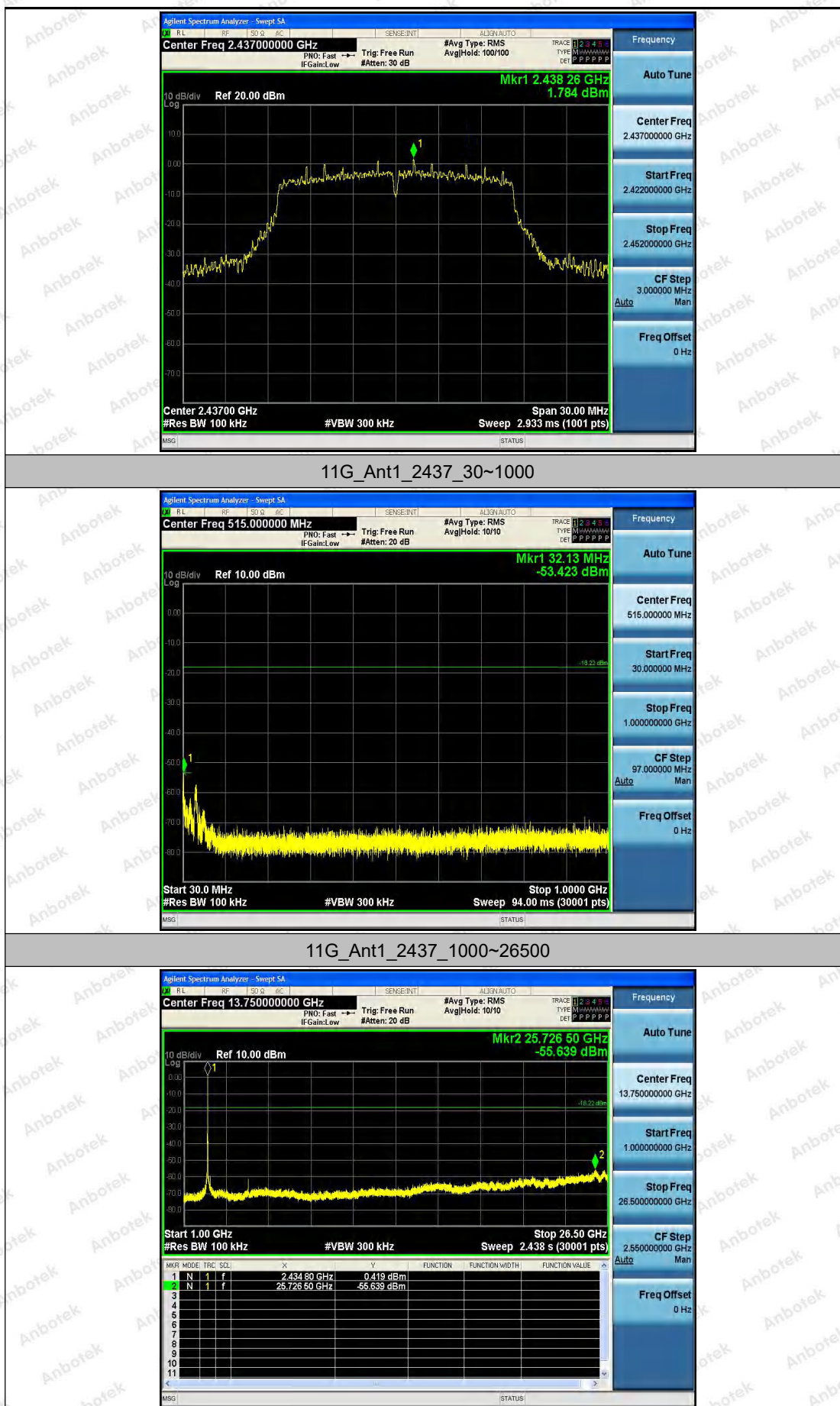


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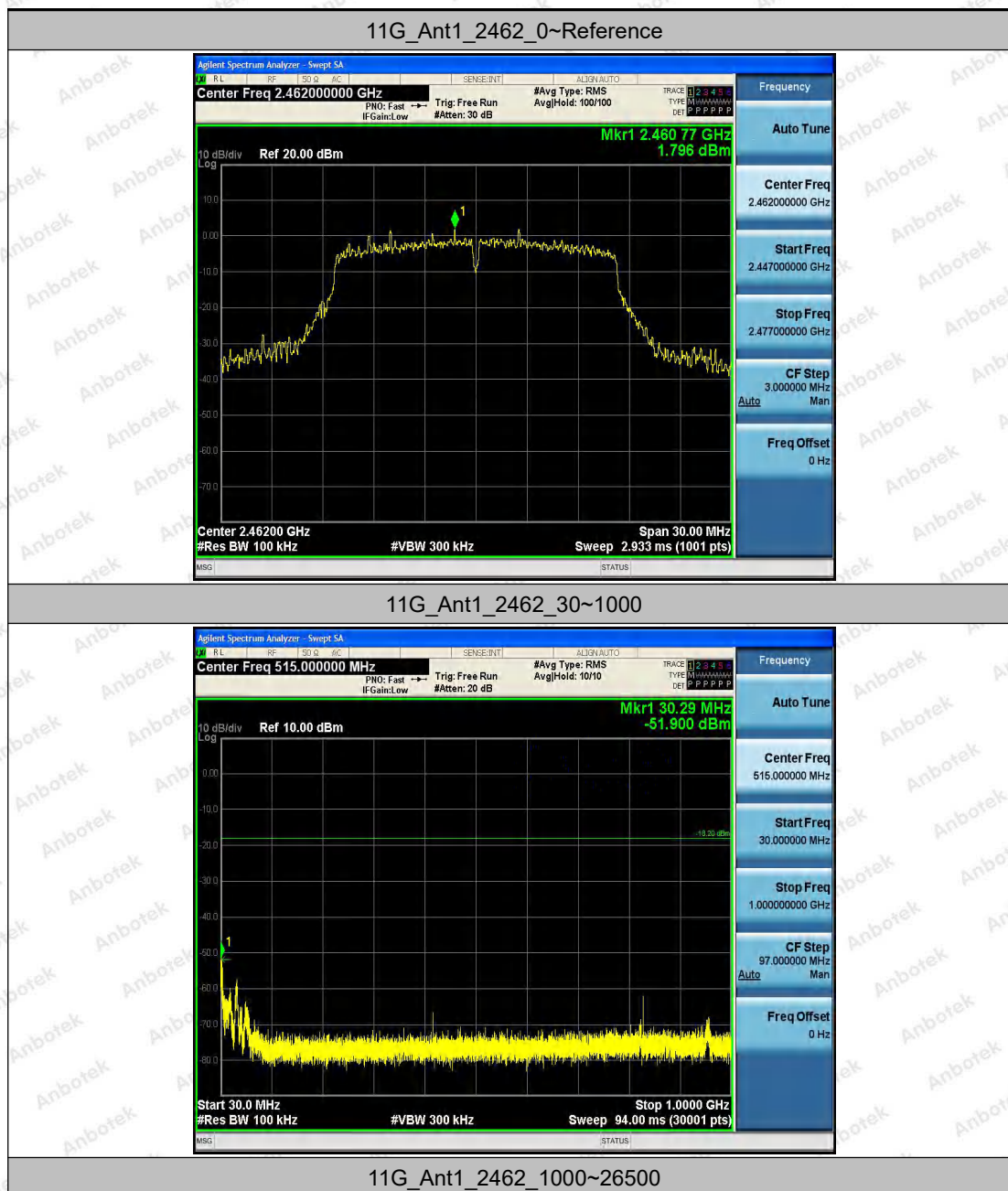


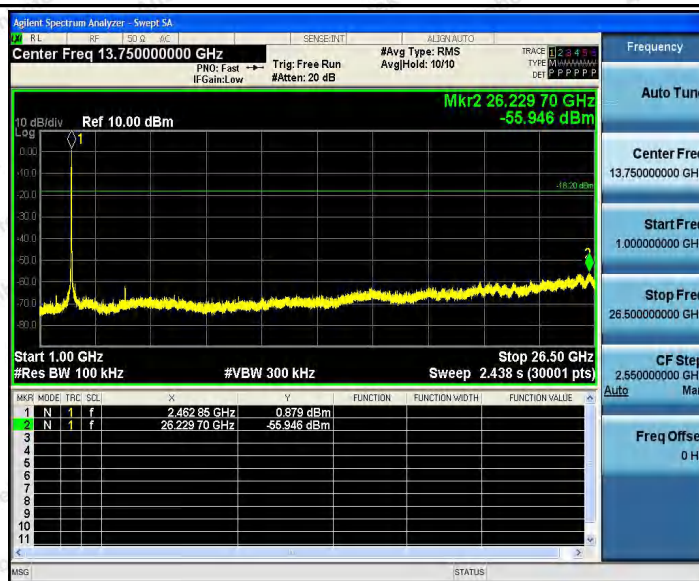
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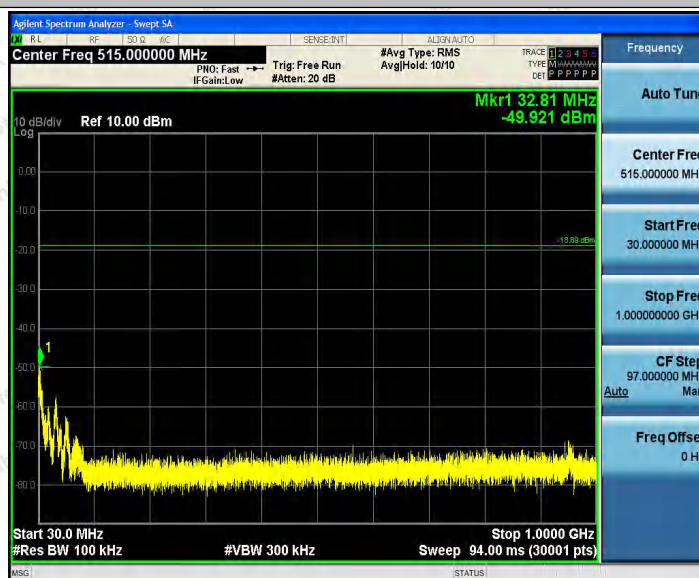




11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000



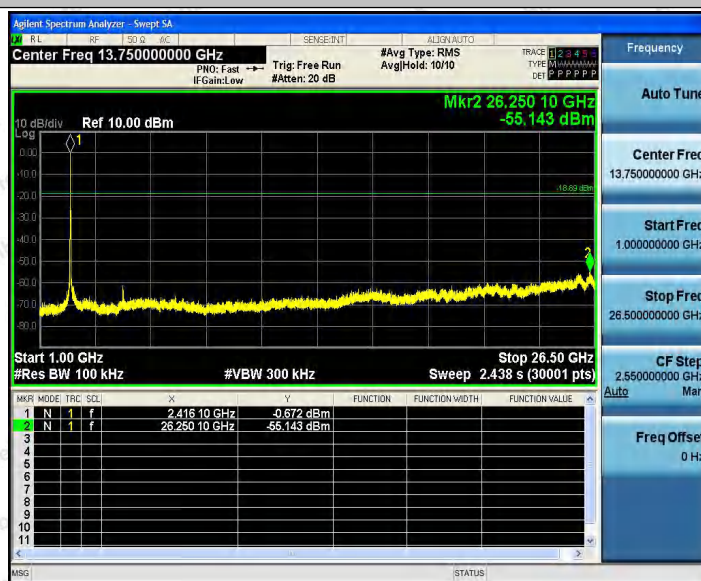
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11N20_Ant1_2412_1000~26500



11N20_Ant1_2437_0~Reference



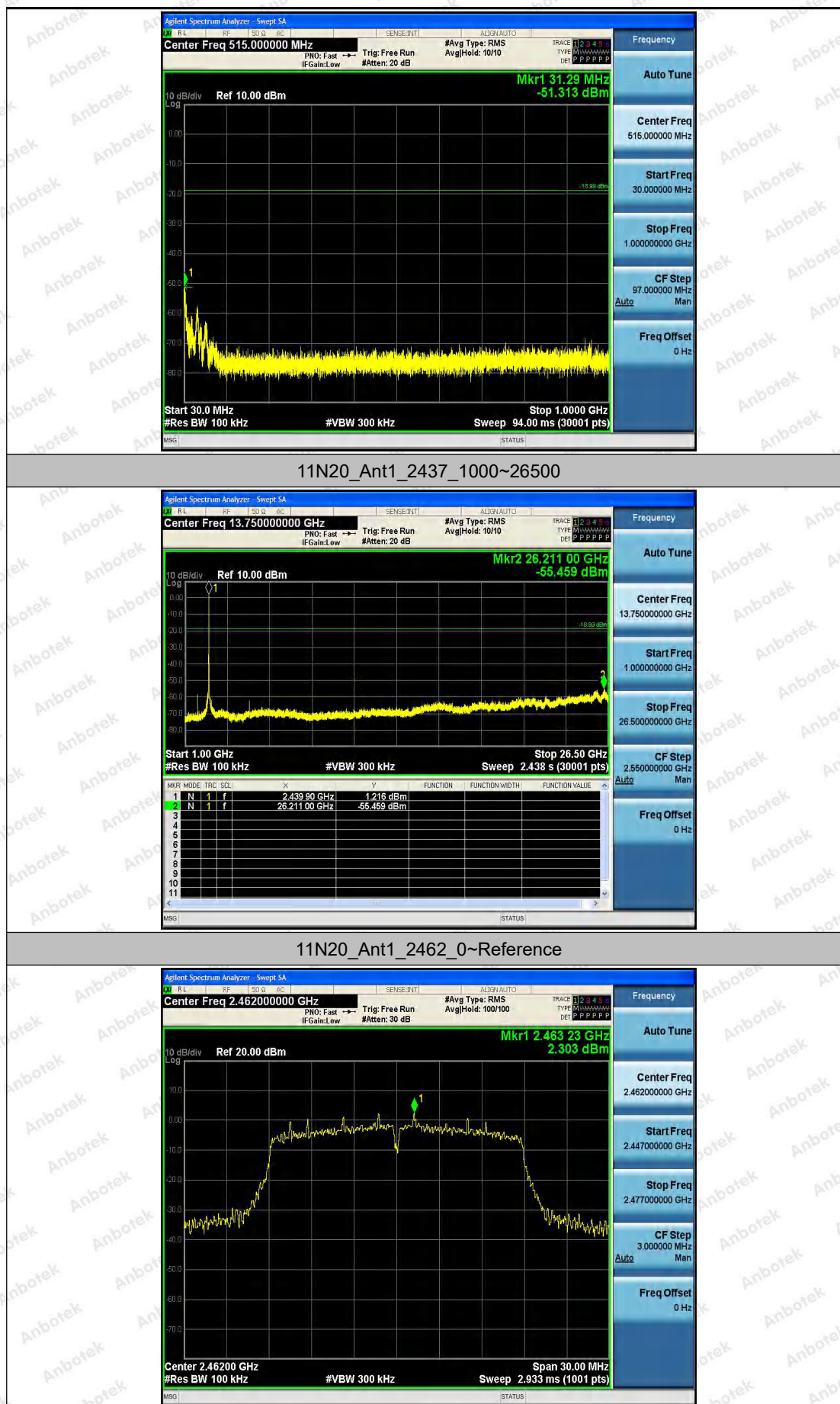
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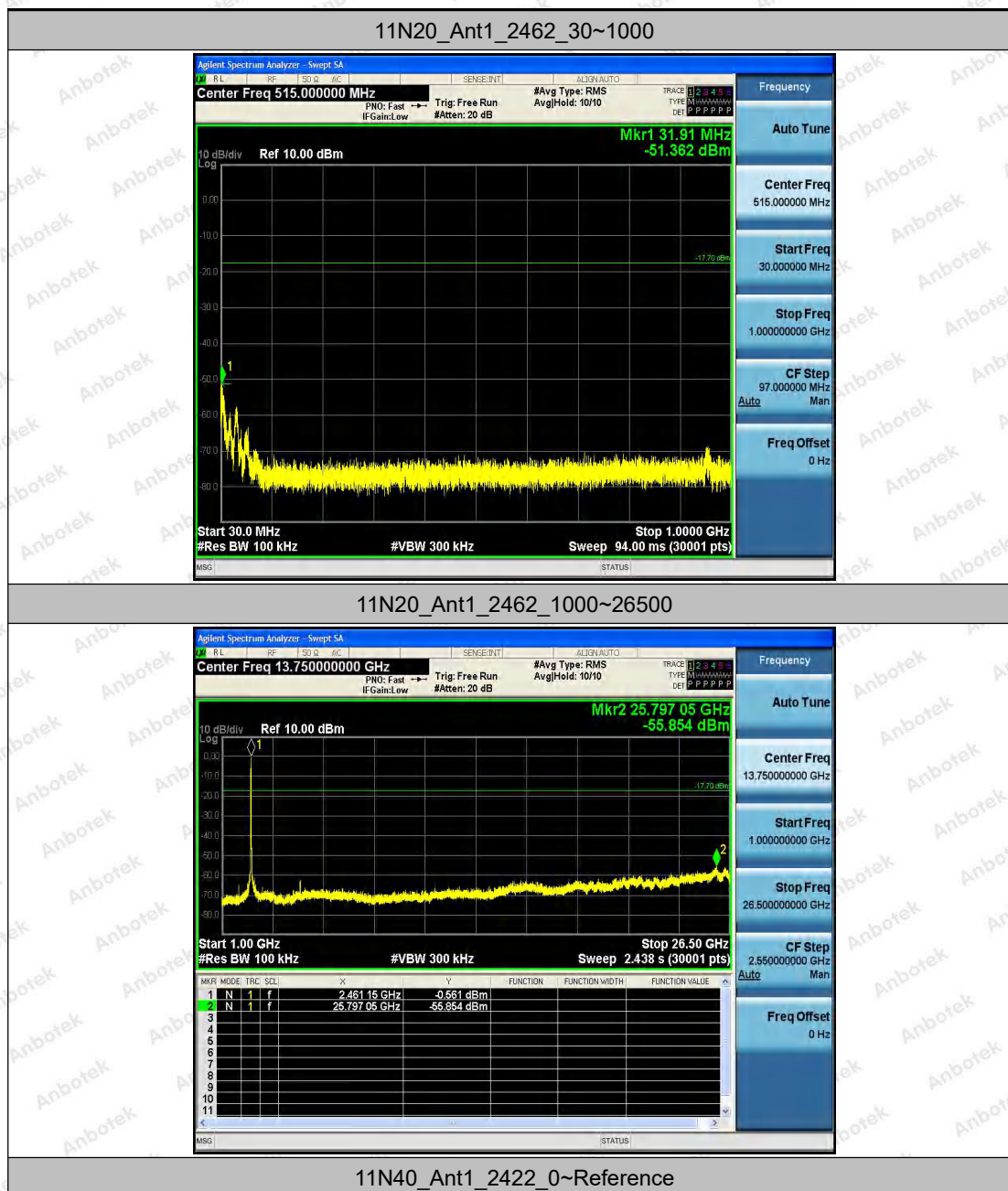


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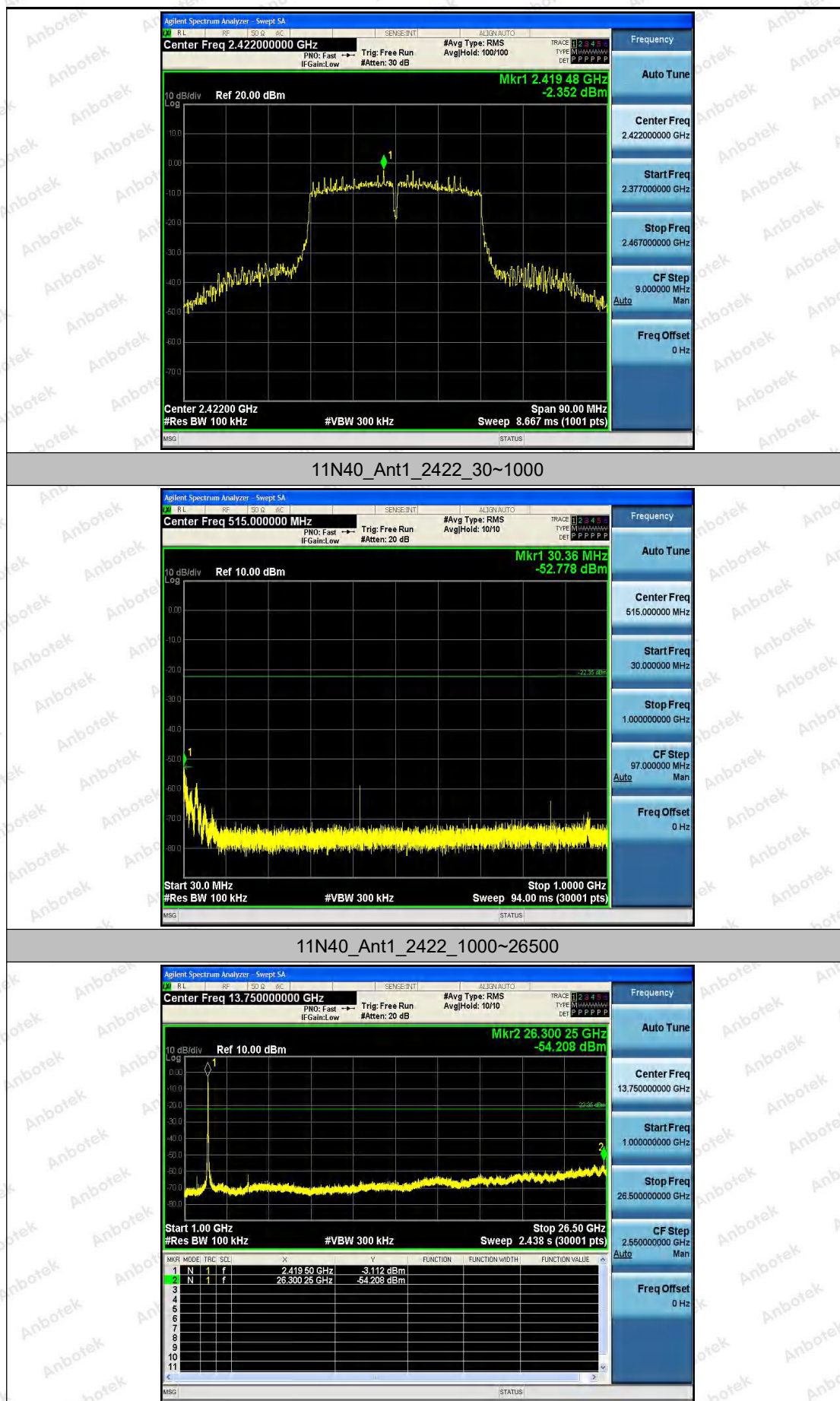


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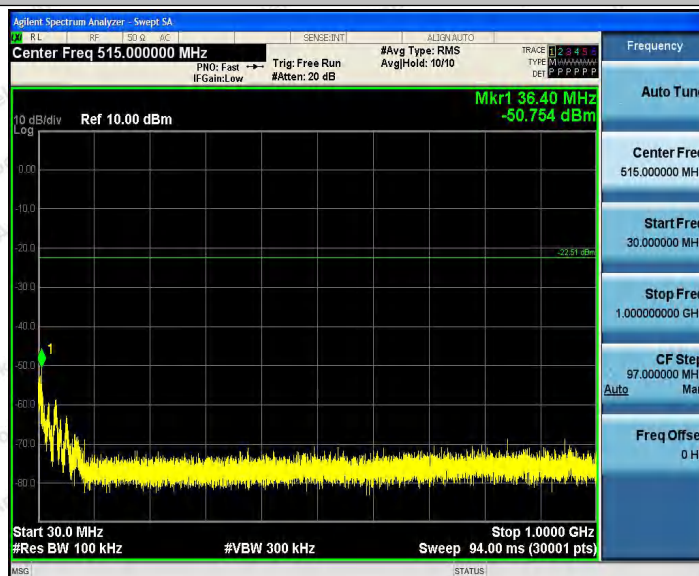
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11N40_Ant1_2437_0~Reference



11N40_Ant1_2437_30~1000



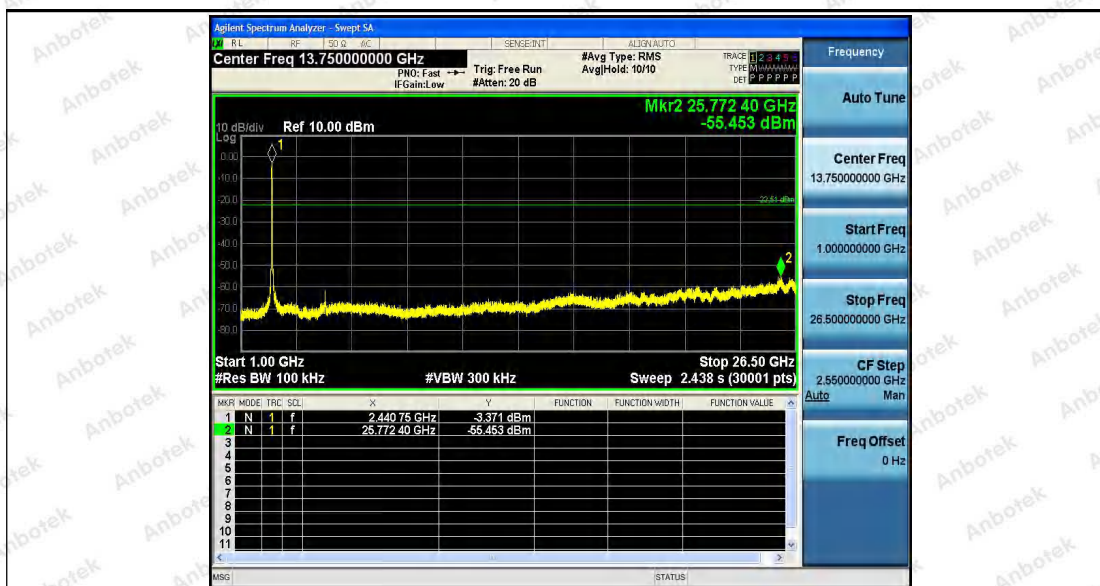
11N40_Ant1_2437_1000~26500

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11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000

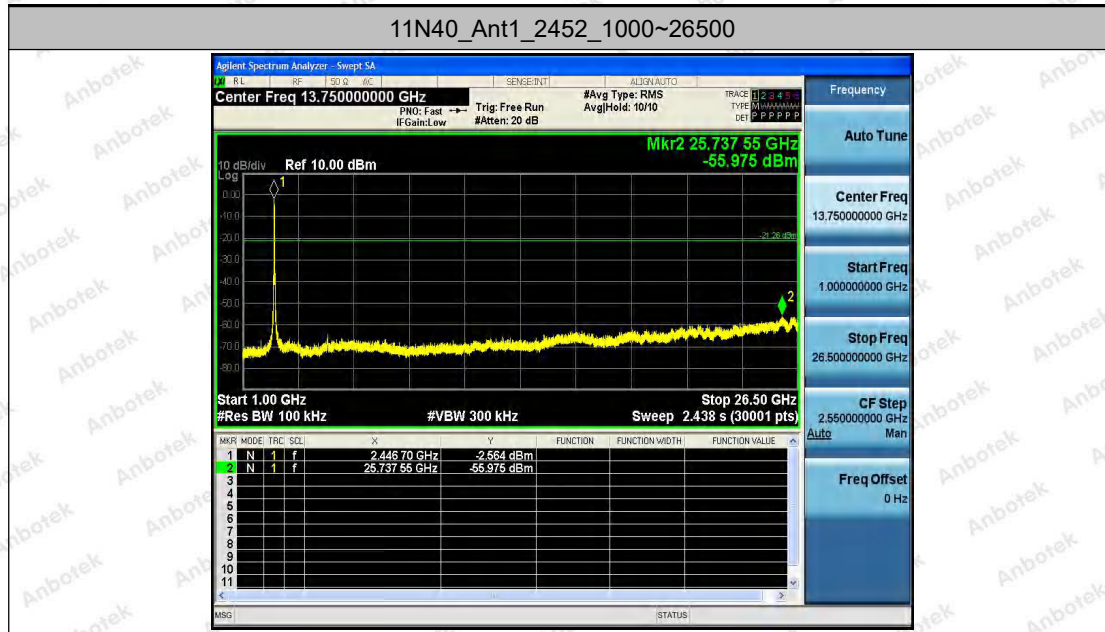


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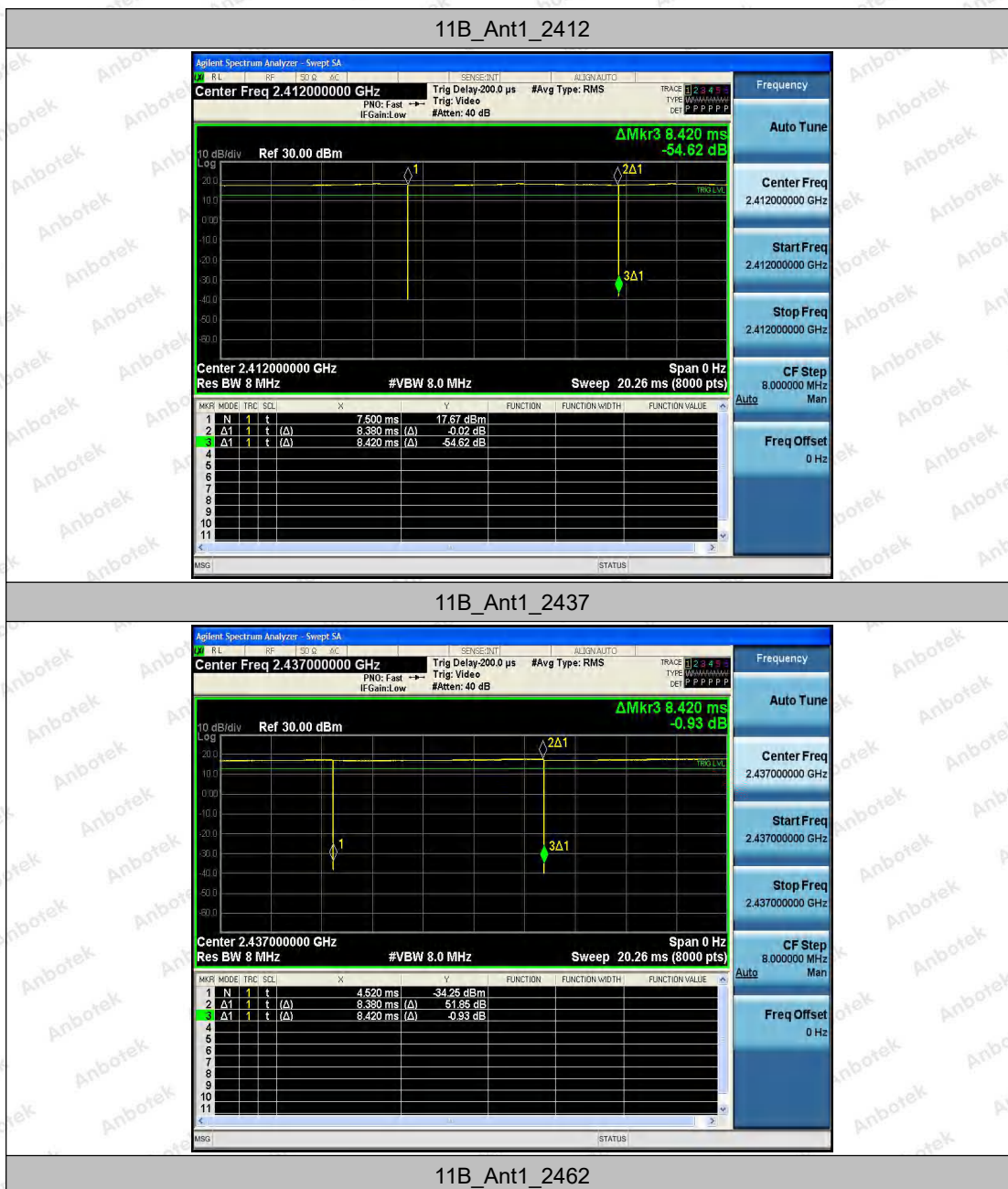
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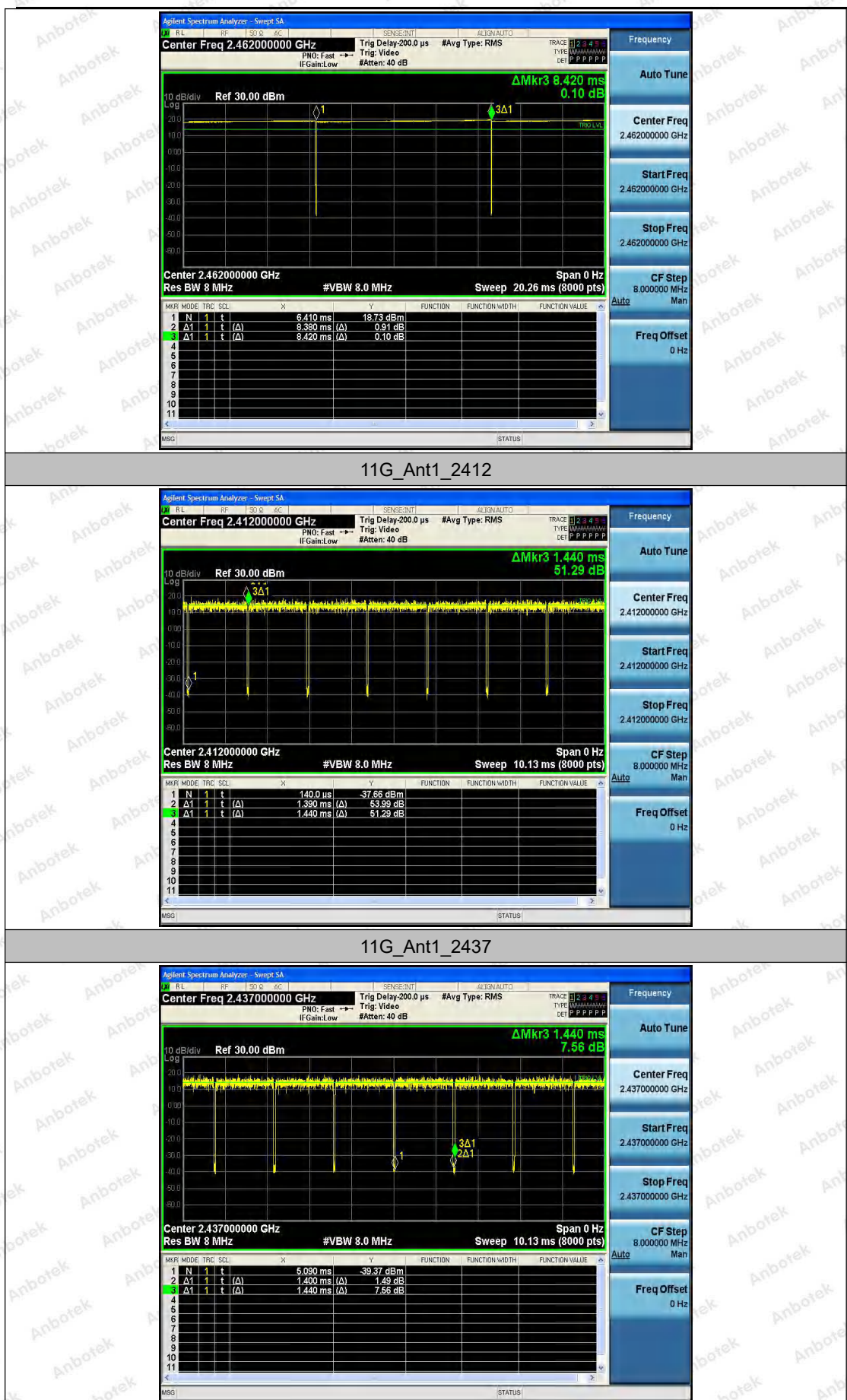
Appendix G: Duty Cycle

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	8.38	8.42	99.52	---	PASS
		2462	8.38	8.42	99.52	---	PASS
11G	Ant1	2412	1.39	1.44	96.53	---	PASS
		2437	1.40	1.44	97.22	---	PASS
		2462	1.40	1.44	97.22	---	PASS
11N20	Ant1	2412	1.29	1.34	96.27	---	PASS
		2437	1.28	1.33	96.24	---	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





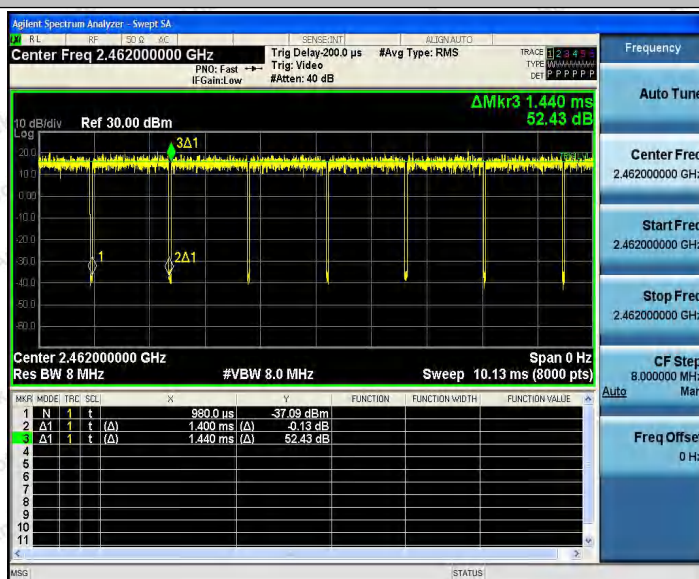
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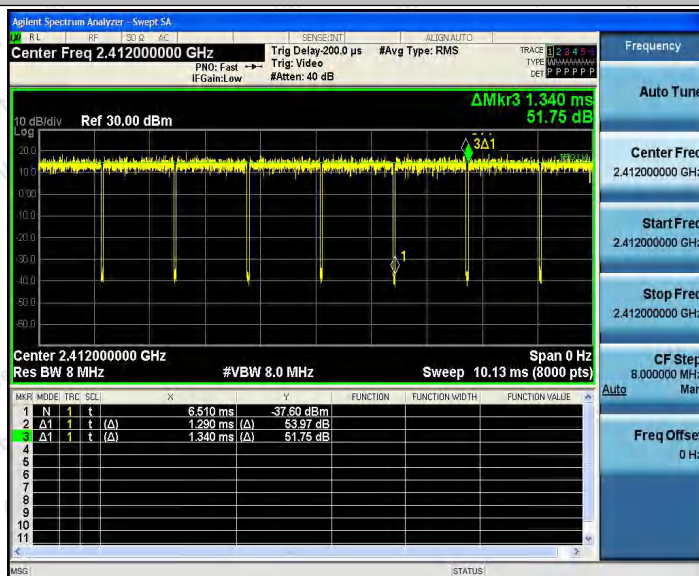
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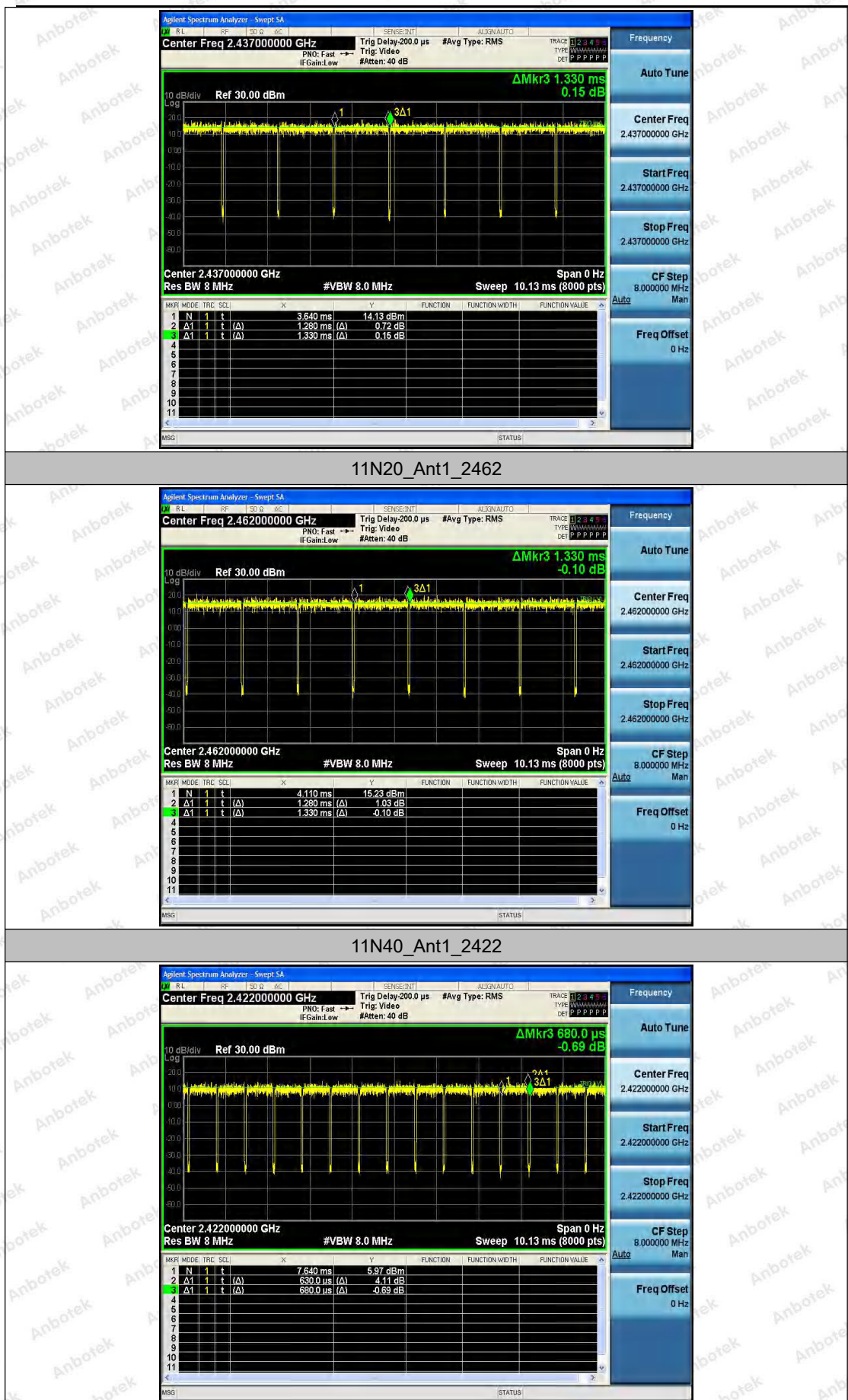
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

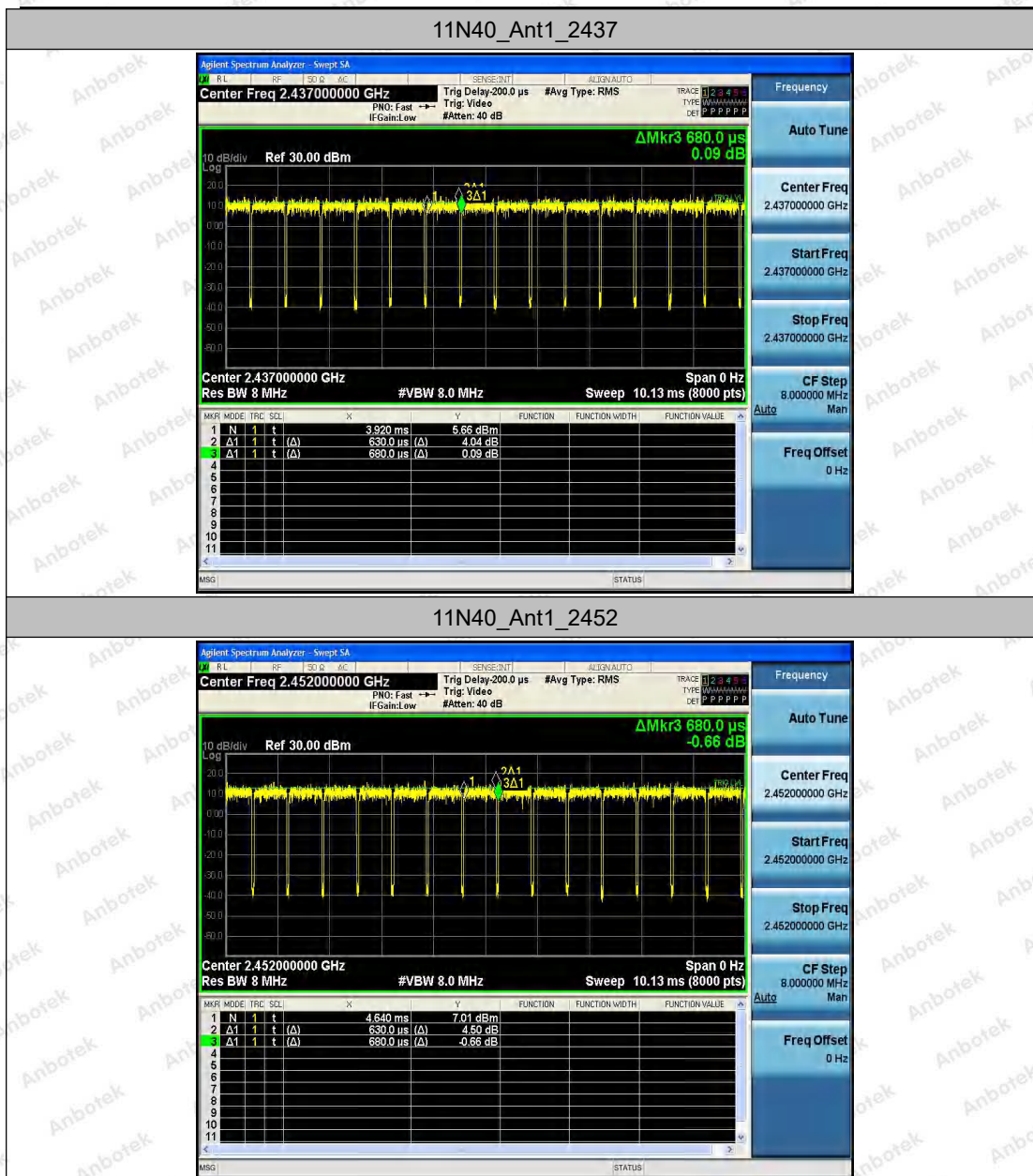


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