

Appendix Test Data

Report No.:	18220WC10187202	Test Date:	2021.8.25
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.600	2407.480	2416.080	≥0.5	PASS
		2437	8.680	2432.400	2441.080	≥0.5	PASS
		2462	8.680	2457.920	2466.600	≥0.5	PASS
11G	Ant1	2412	16.480	2403.760	2420.240	≥0.5	PASS
		2437	16.520	2428.720	2445.240	≥0.5	PASS
		2462	16.520	2453.720	2470.240	≥0.5	PASS
11N20	Ant1	2412	17.600	2403.200	2420.800	≥0.5	PASS
		2437	17.400	2428.400	2445.800	≥0.5	PASS
		2462	17.400	2453.400	2470.800	≥0.5	PASS
11N40	Ant1	2422	33.240	2405.080	2438.320	≥0.5	PASS
		2437	33.000	2420.320	2453.320	≥0.5	PASS
		2452	32.640	2435.680	2468.320	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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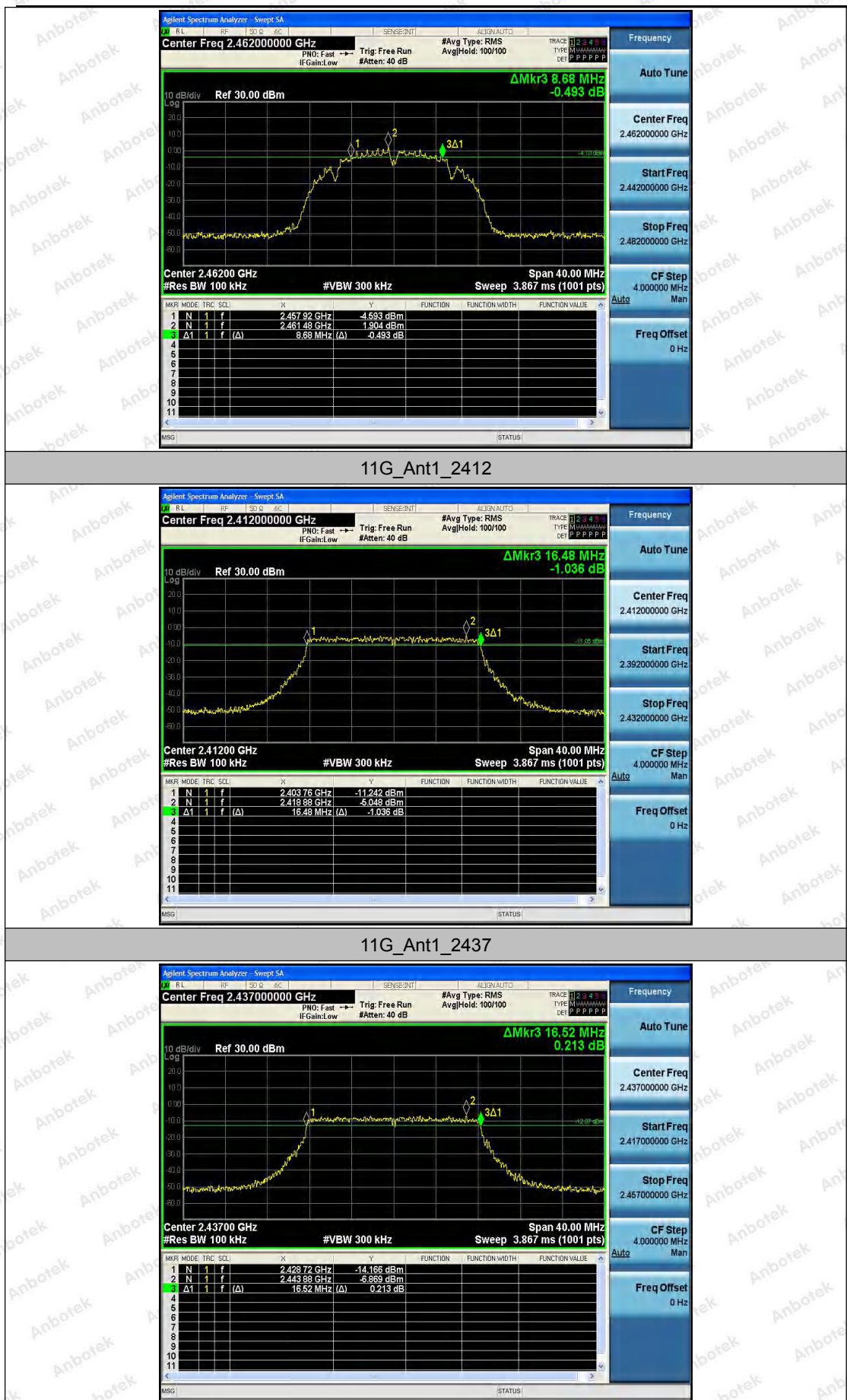
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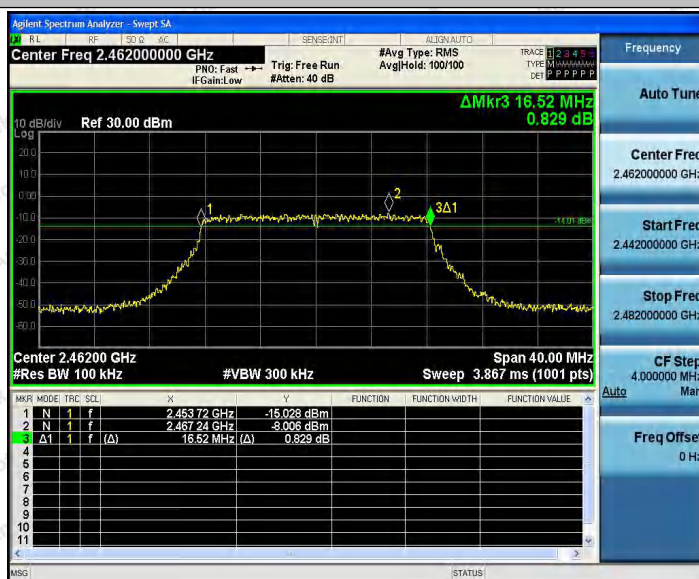
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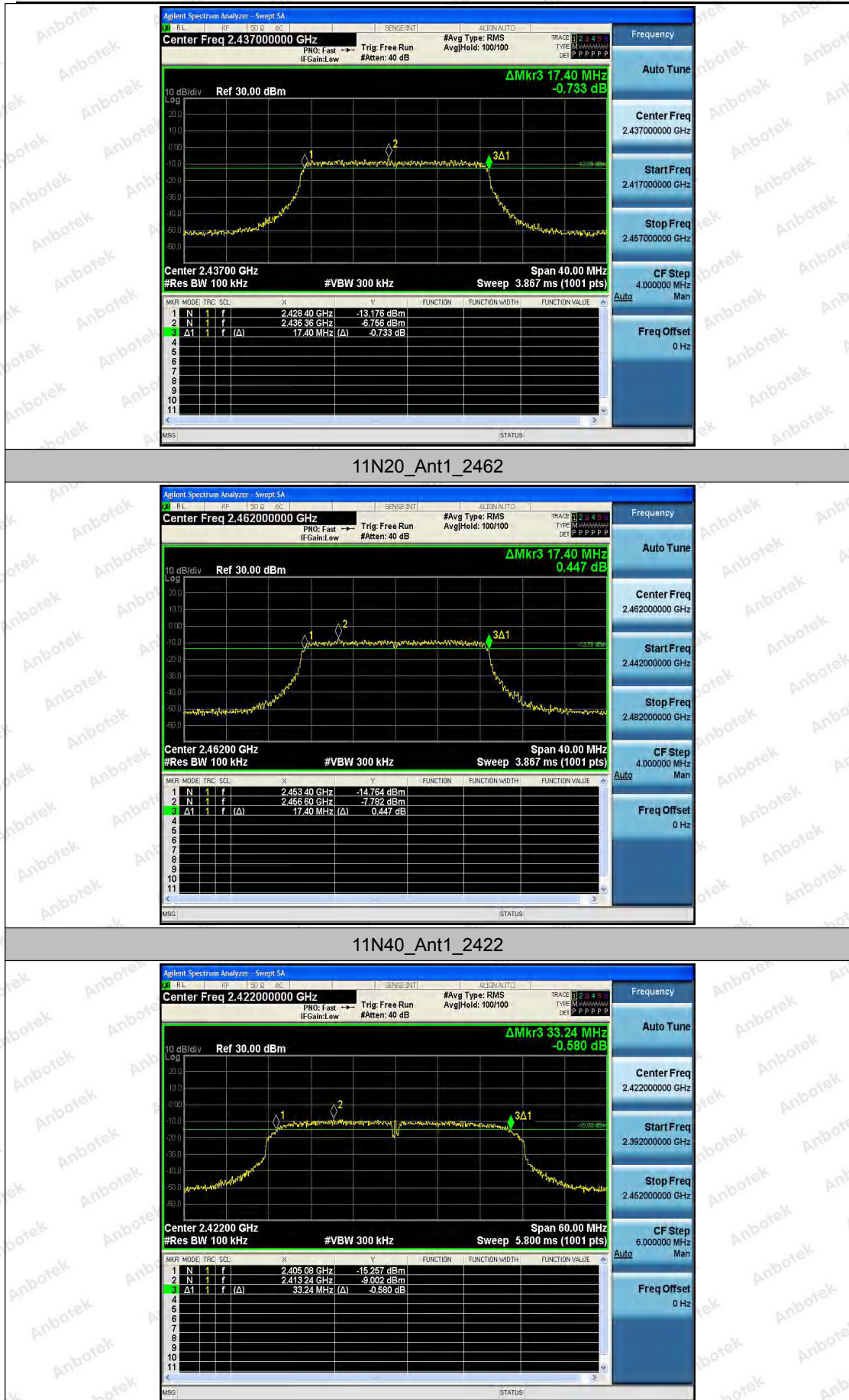
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

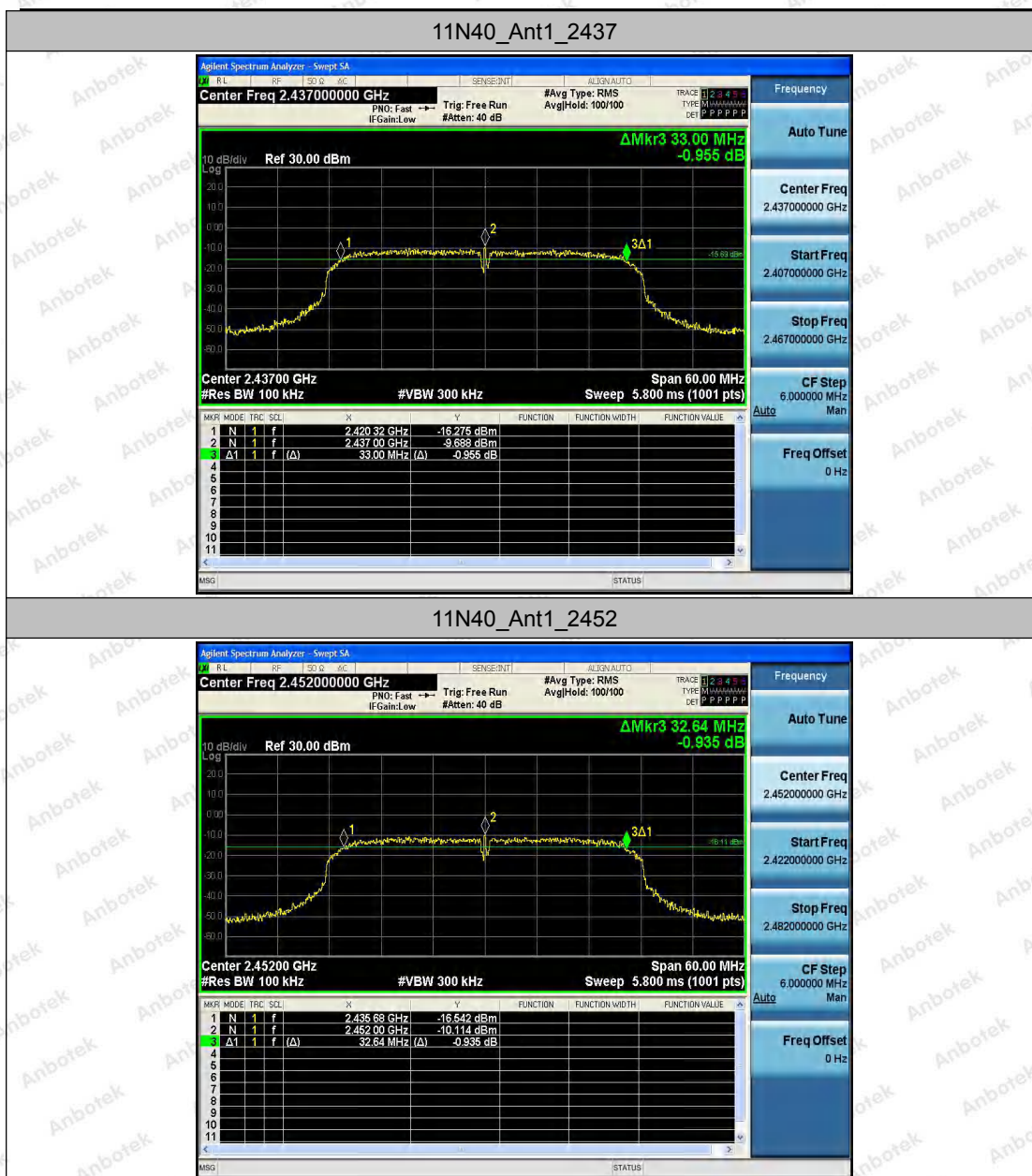


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.126	2405.413	2418.539	---	PASS
		2437	13.128	2430.418	2443.546	---	PASS
		2462	13.107	2455.480	2468.587	---	PASS
11G	Ant1	2412	16.601	2403.704	2420.305	---	PASS
		2437	16.641	2428.683	2445.324	---	PASS
		2462	16.636	2453.716	2470.352	---	PASS
11N20	Ant1	2412	17.450	2403.257	2420.707	---	PASS
		2437	17.428	2428.287	2445.715	---	PASS
		2462	17.409	2453.311	2470.720	---	PASS
11N40	Ant1	2422	34.487	2404.647	2439.134	---	PASS
		2437	34.633	2419.662	2454.295	---	PASS
		2452	34.541	2434.746	2469.287	---	PASS

Test Graphs

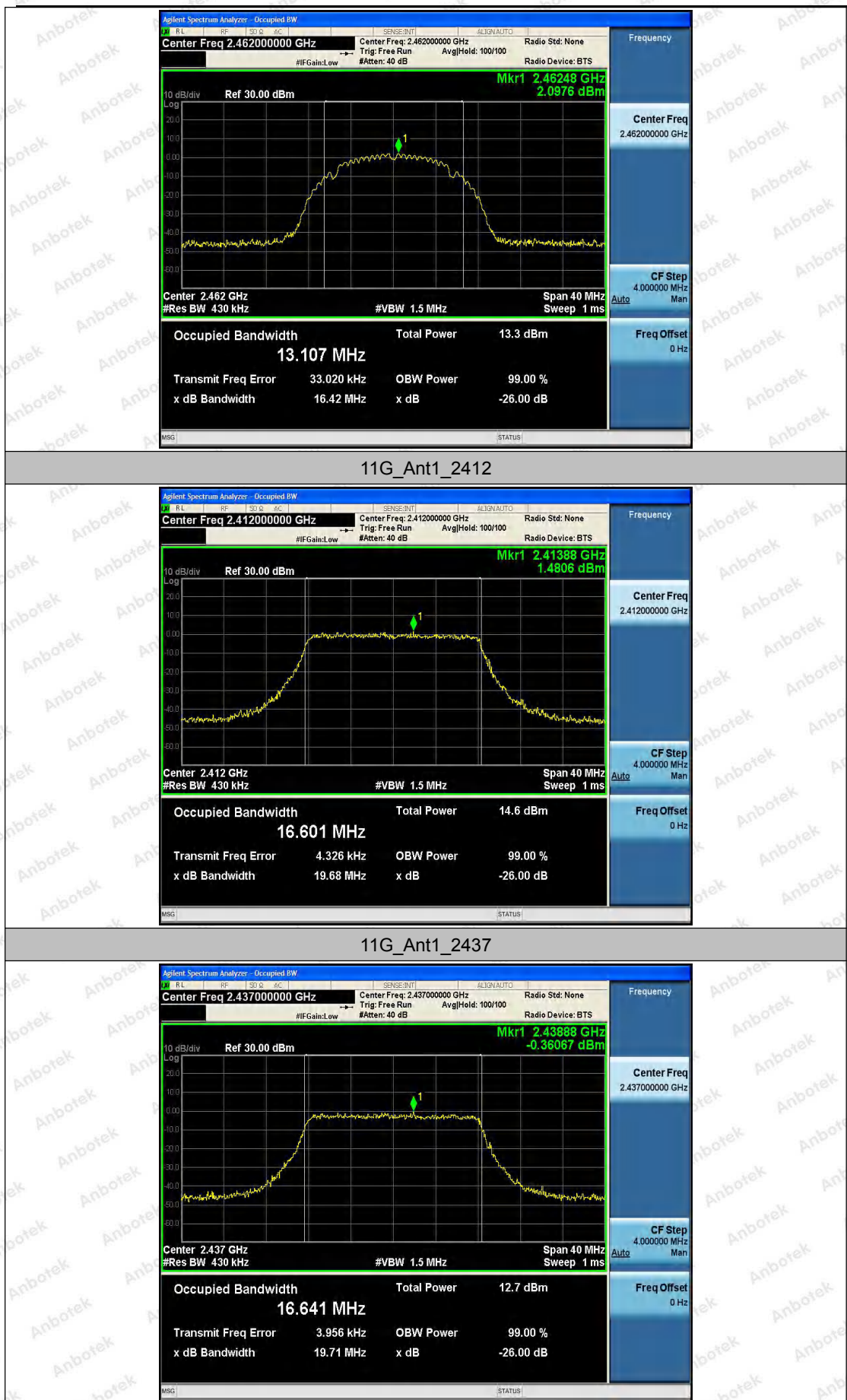


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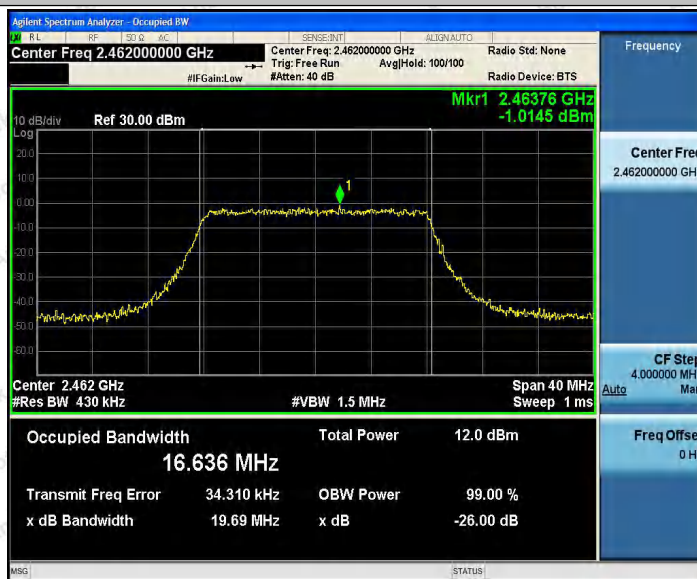
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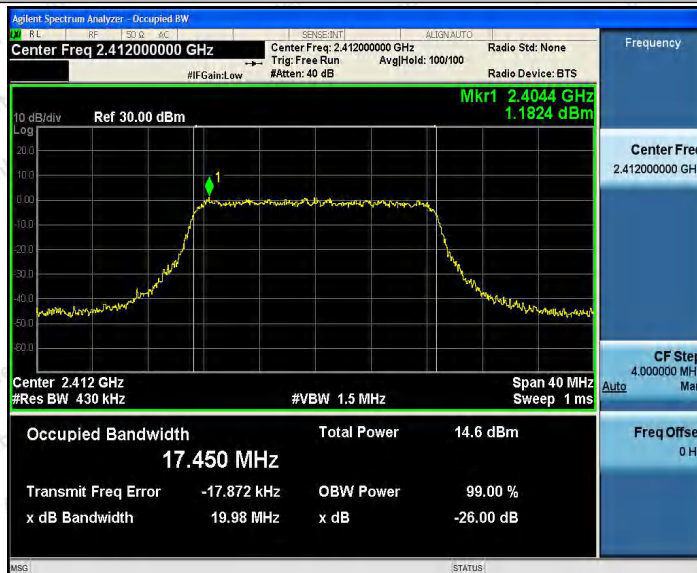
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11G_Ant1_2462



11N20_Ant1_2412



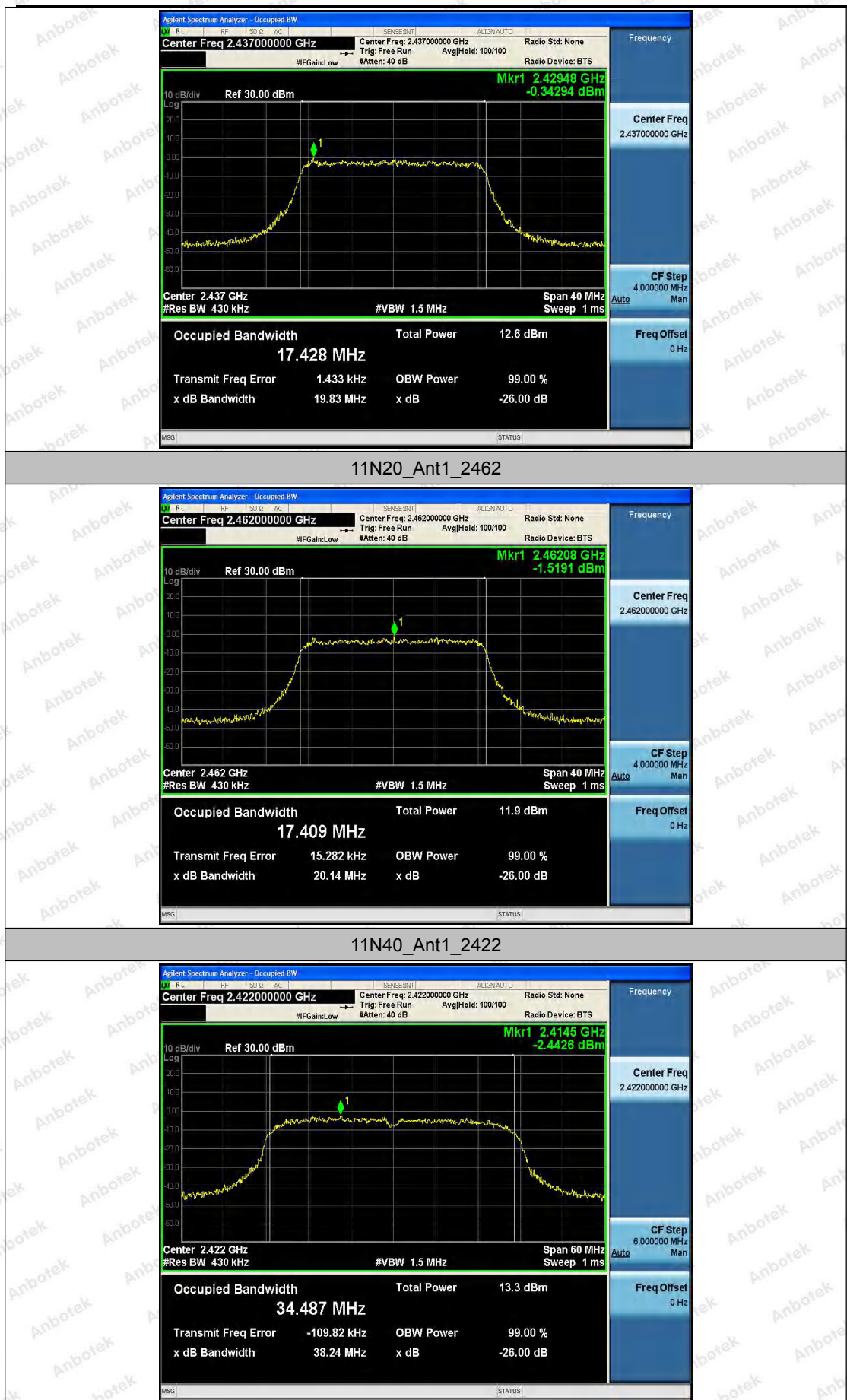
11N20_Ant1_2437

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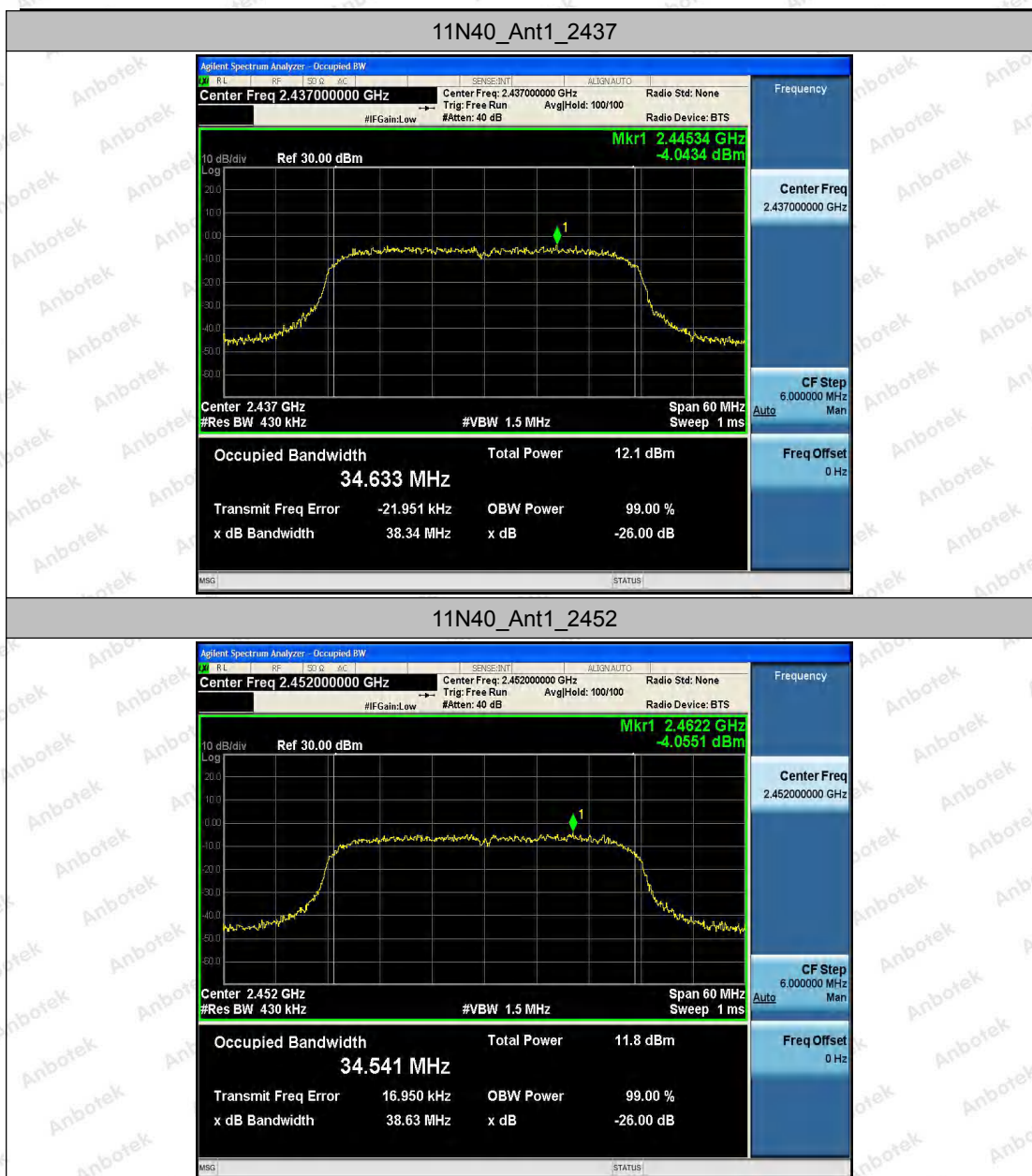


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Appendix C: Maximum conducted output power

Test Result

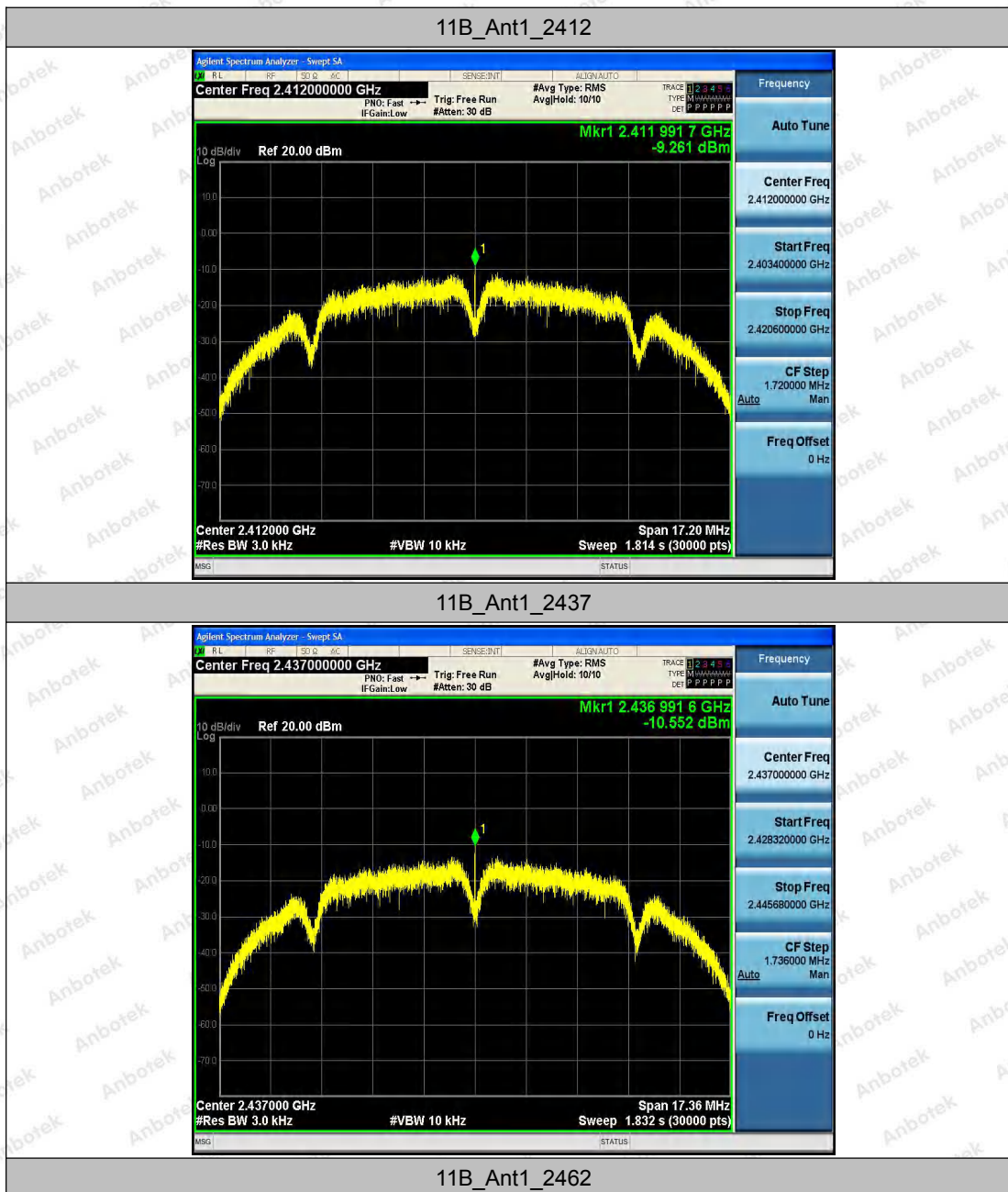
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.54	≤30	PASS
		2437	14.33	≤30	PASS
		2462	13.33	≤30	PASS
11G	Ant1	2412	15.26	≤30	PASS
		2437	13.38	≤30	PASS
		2462	12.66	≤30	PASS
11N20	Ant1	2412	15.32	≤30	PASS
		2437	13.33	≤30	PASS
		2462	12.55	≤30	PASS
11N40	Ant1	2422	12.38	≤30	PASS
		2437	11.11	≤30	PASS
		2452	10.81	≤30	PASS

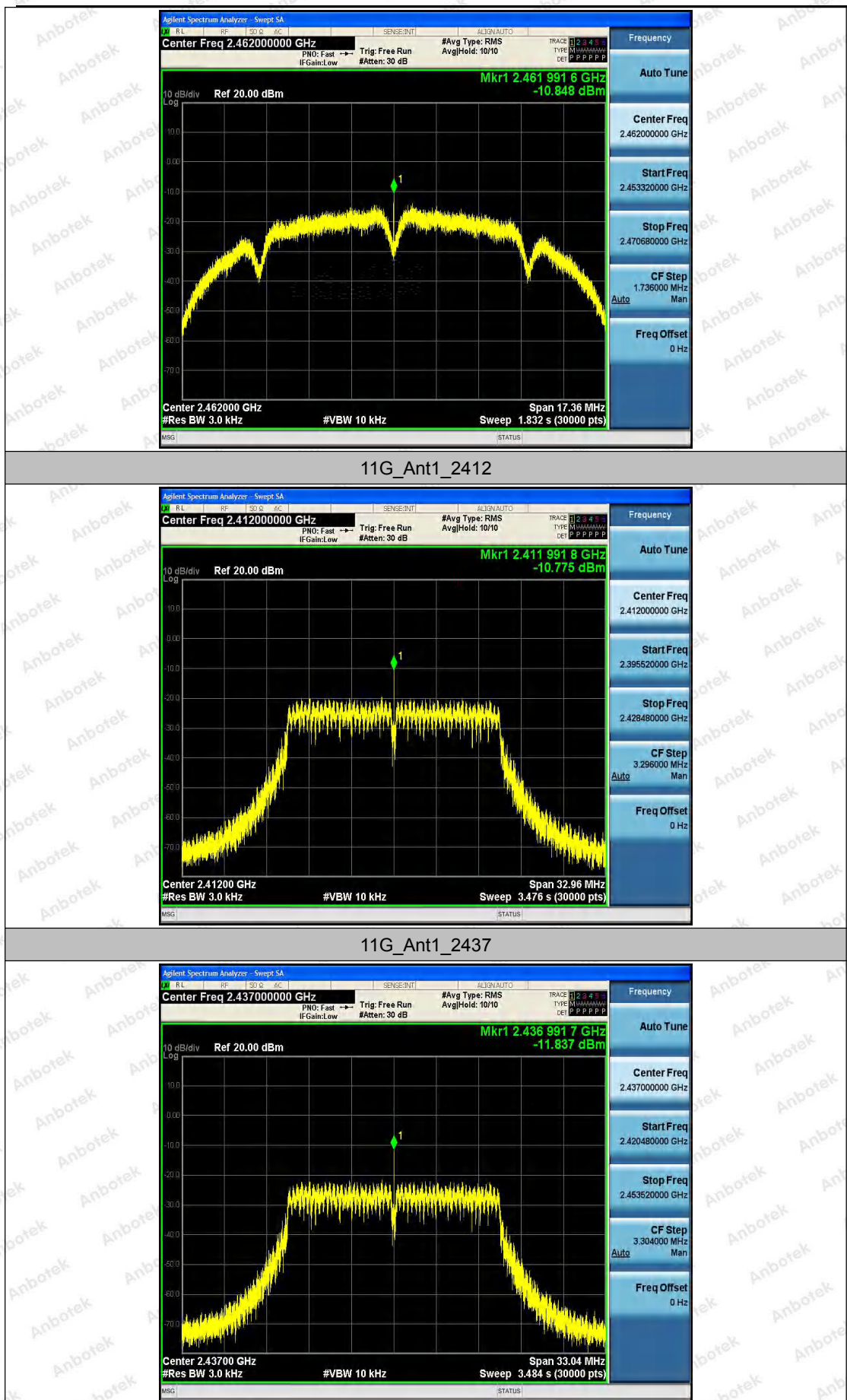
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.26	≤8	PASS
		2437	-10.55	≤8	PASS
		2462	-10.85	≤8	PASS
11G	Ant1	2412	-10.78	≤8	PASS
		2437	-11.84	≤8	PASS
		2462	-12.18	≤8	PASS
11N20	Ant1	2412	-11.22	≤8	PASS
		2437	-11.6	≤8	PASS
		2462	-11.86	≤8	PASS
11N40	Ant1	2422	-12.09	≤8	PASS
		2437	-12.2	≤8	PASS
		2452	-12.29	≤8	PASS

Test Graphs





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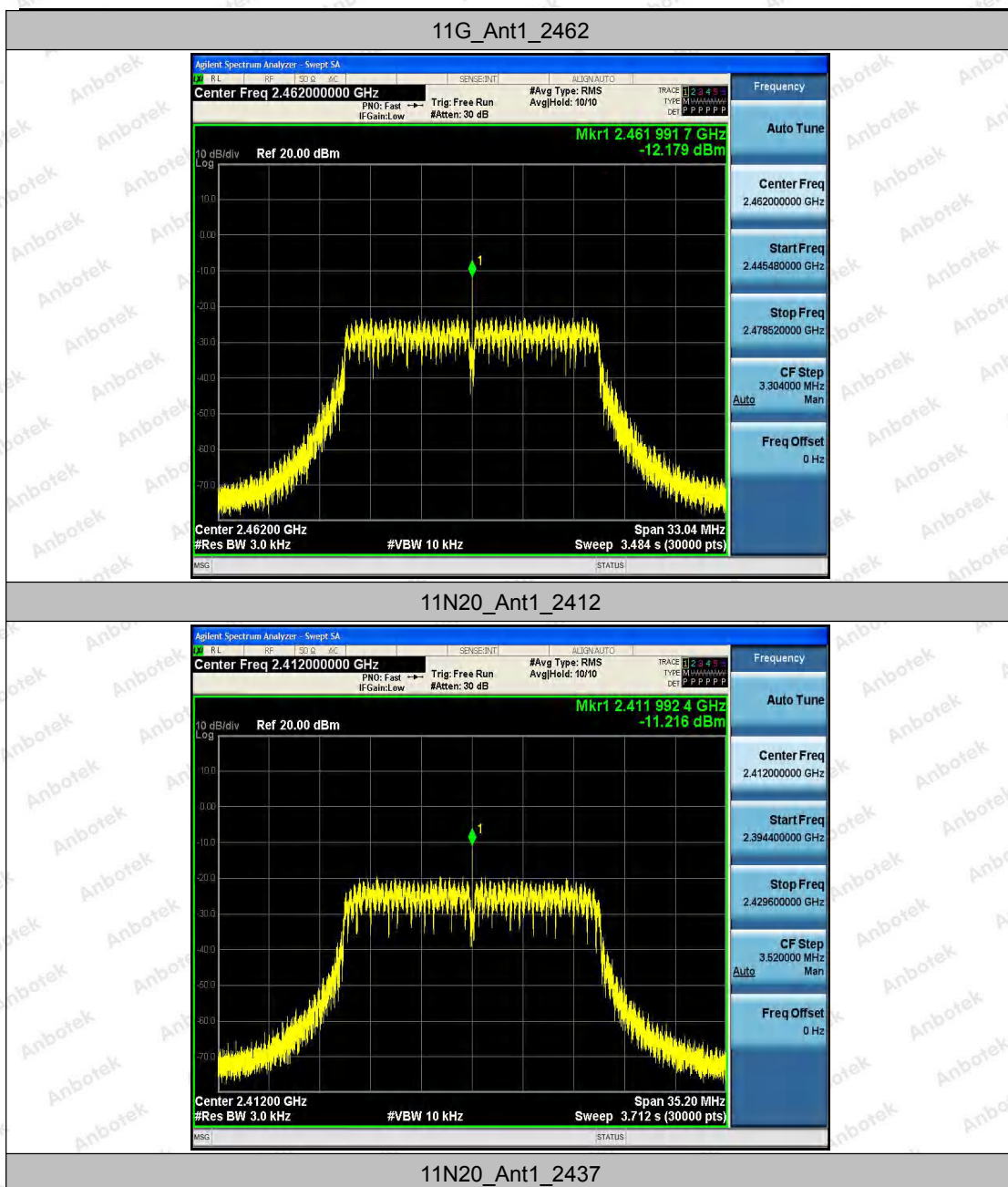
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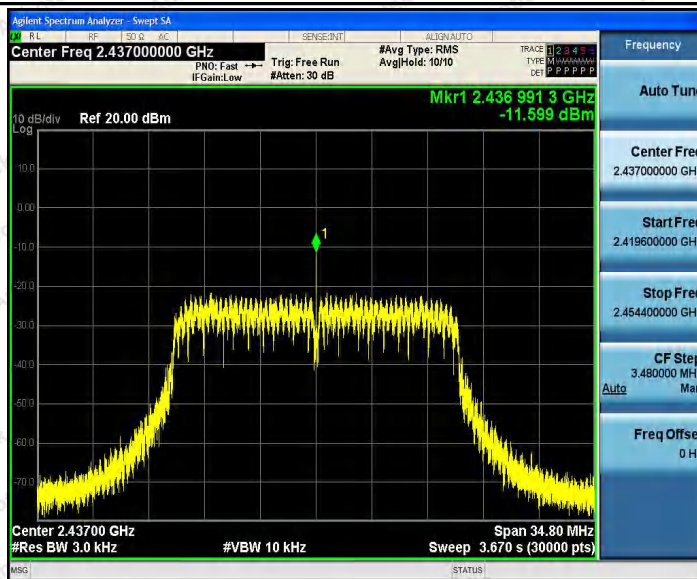


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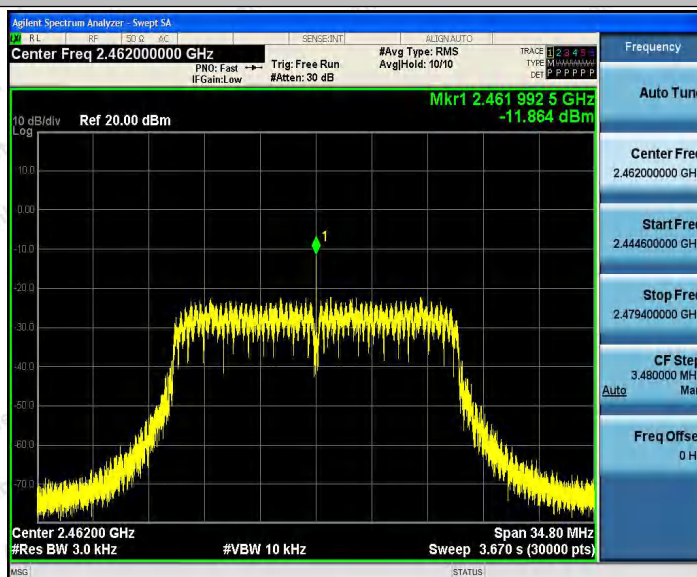
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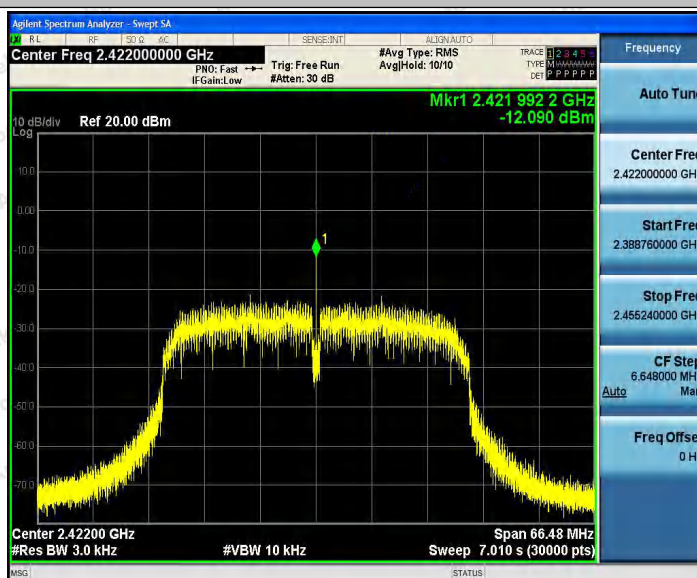




11N20_Ant1_2462



11N40_Ant1_2422

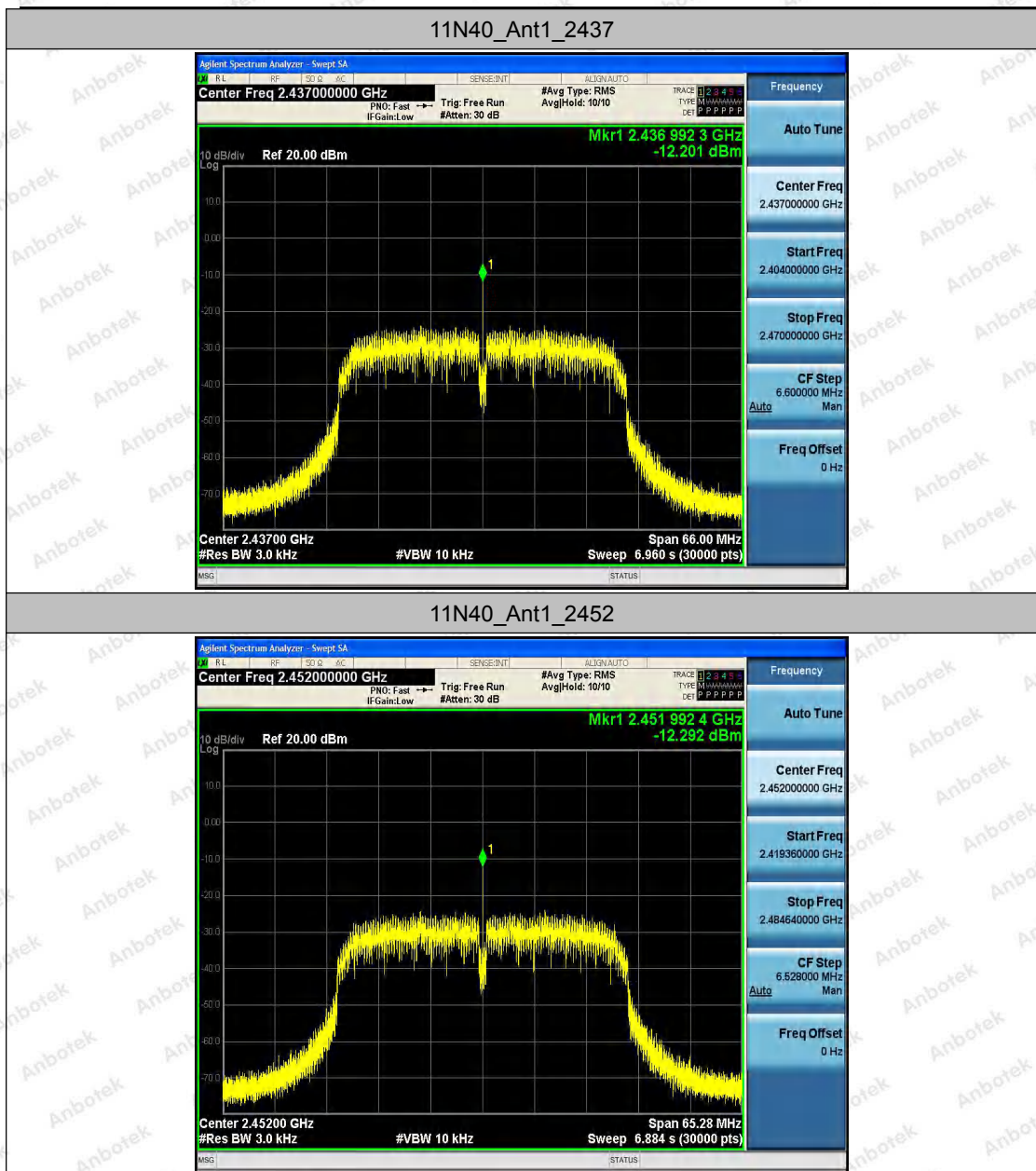


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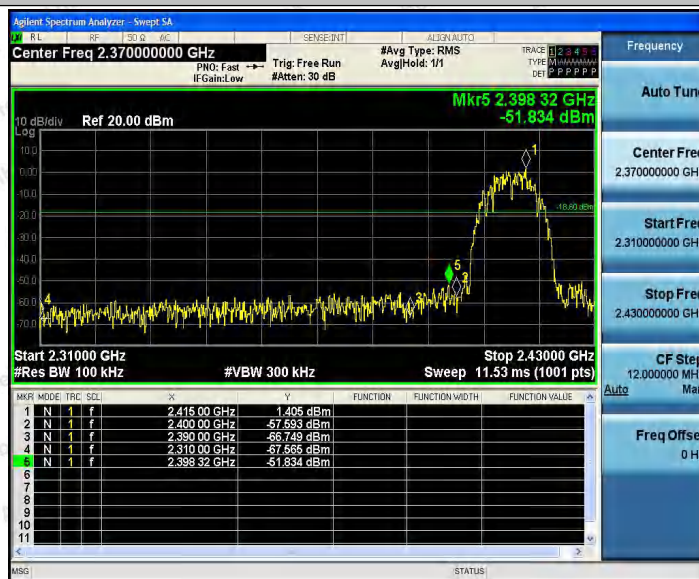
Appendix E: Band edge measurements

Test Result

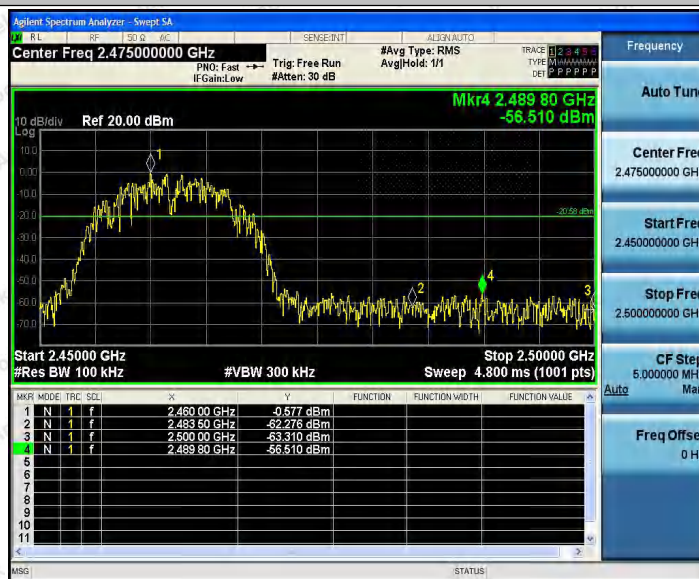
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.41	-51.83	≤ -18.6	PASS
		High	2462	-0.58	-56.51	≤ -20.58	PASS
11G	Ant1	Low	2412	-6.97	-47.35	≤ -26.97	PASS
		High	2462	-8.80	-55.66	≤ -28.8	PASS
11N20	Ant1	Low	2412	-6.70	-44.14	≤ -26.7	PASS
		High	2462	-9.46	-54.33	≤ -29.46	PASS
11N40	Ant1	Low	2422	-10.56	-49.23	≤ -30.56	PASS
		High	2452	-11.19	-55.43	≤ -31.19	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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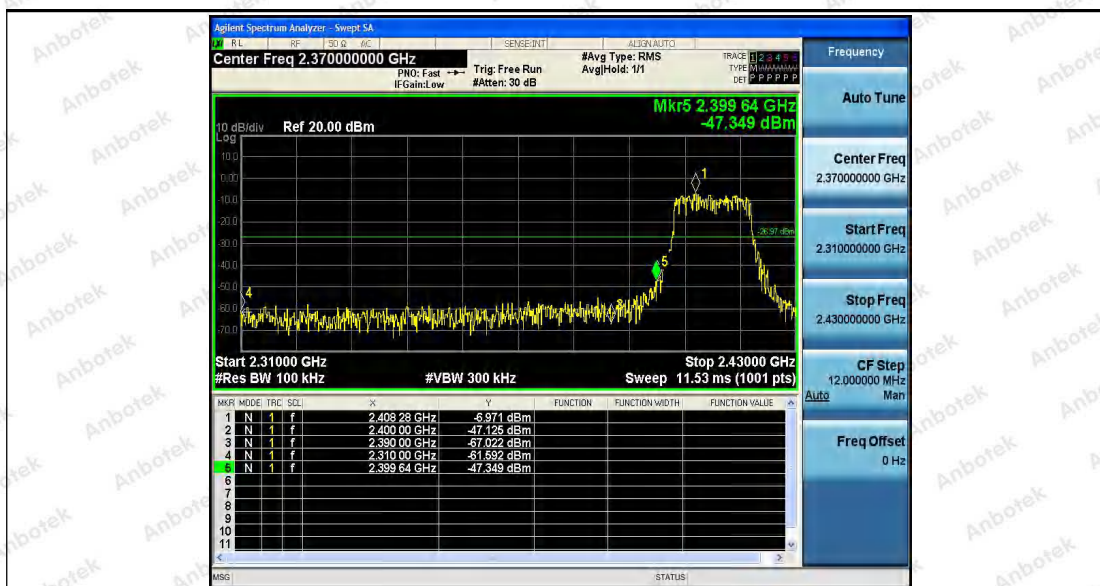
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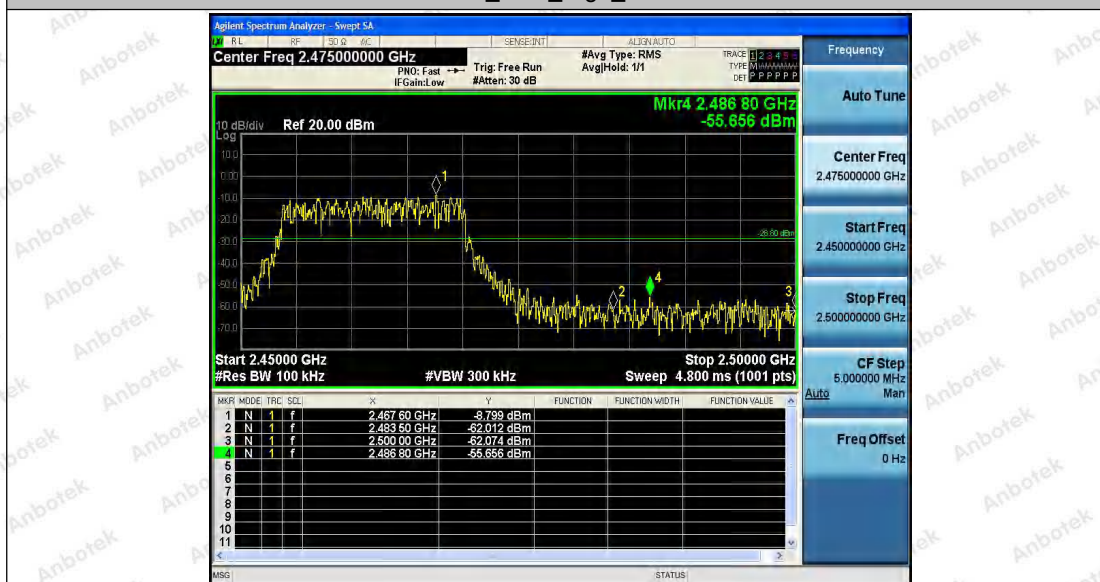
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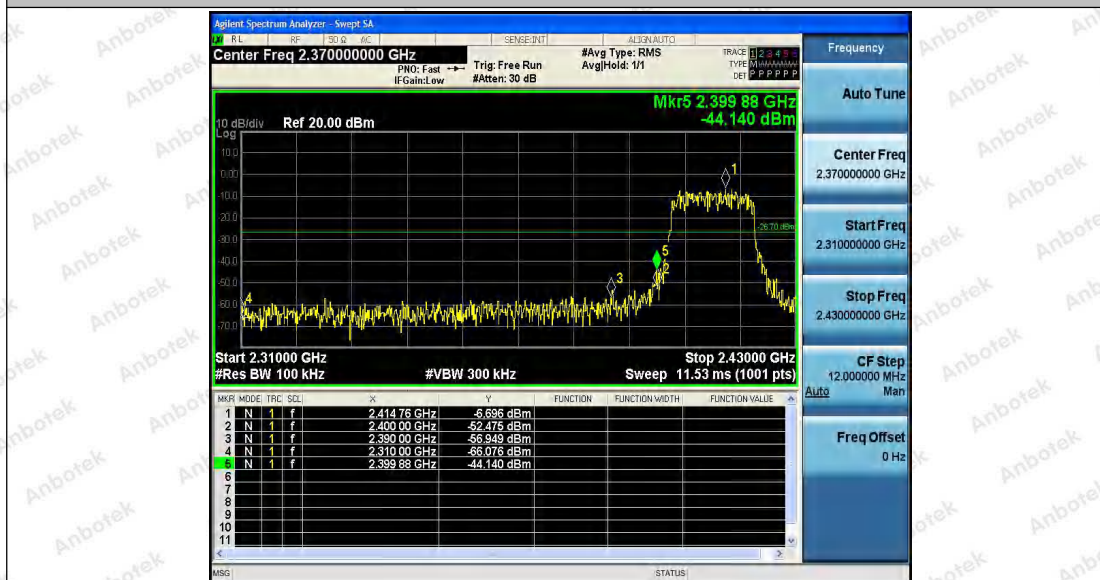
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11G_Ant1_High_2462



11N20_Ant1_Low_2412



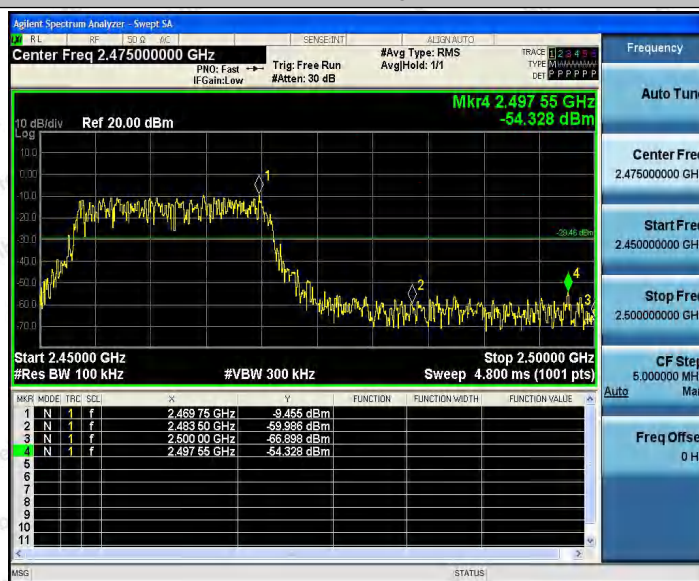
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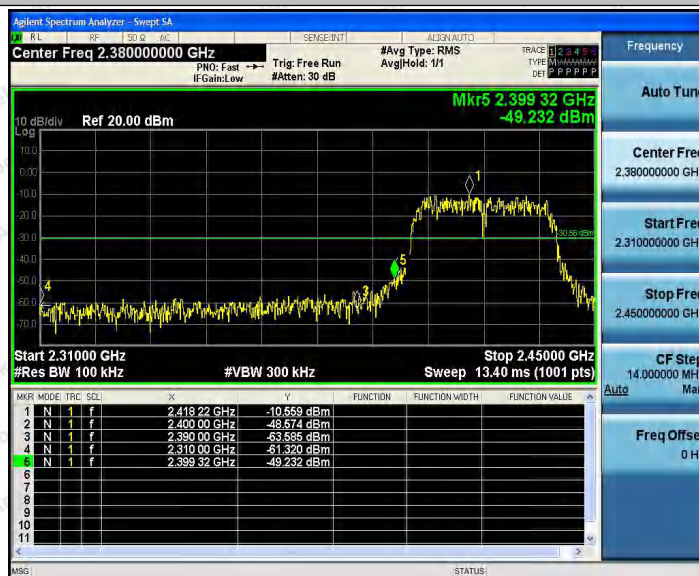
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11N20_Ant1_High_2462



11N40_Ant1_Low_2422



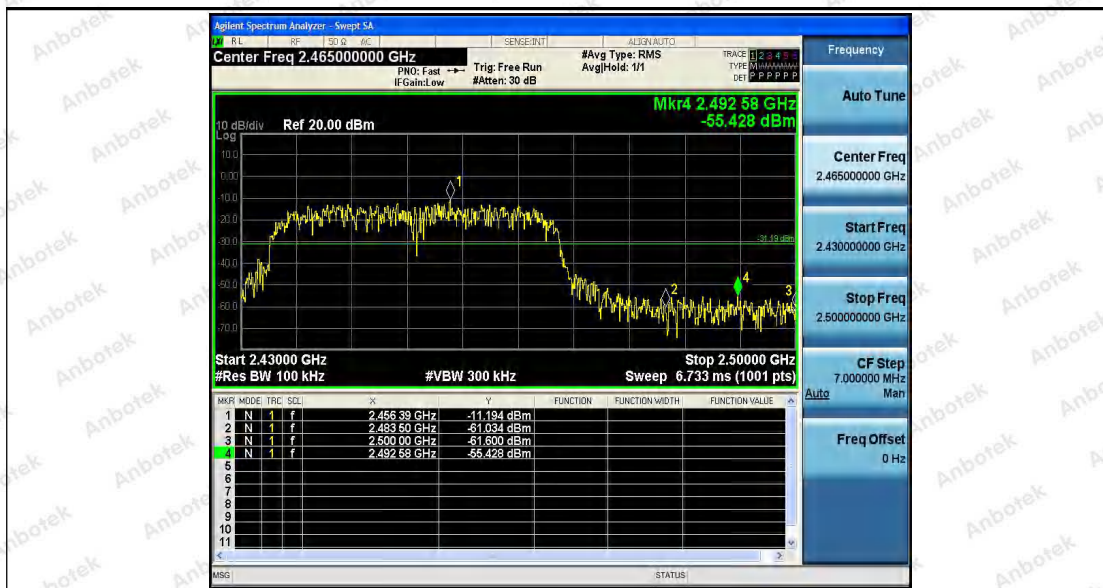
11N40_Ant1_High_2452

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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.83	4.83	---	PASS
			30~1000	4.83	-55.87	≤-15.17	PASS
			1000~26500	4.83	-42.03	≤-15.17	PASS
		2437	Reference	2.42	2.42	---	PASS
			30~1000	2.42	-55.59	≤-17.58	PASS
			1000~26500	2.42	-45.02	≤-17.58	PASS
		2462	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-53.97	≤-18.19	PASS
			1000~26500	1.81	-47.89	≤-18.19	PASS
11G	Ant1	2412	Reference	-5.48	-5.48	---	PASS
			30~1000	-5.48	-59.96	≤-25.48	PASS
			1000~26500	-5.48	-49.69	≤-25.48	PASS
		2437	Reference	-7.38	-7.38	---	PASS
			30~1000	-7.38	-59.54	≤-27.38	PASS
			1000~26500	-7.38	-50.3	≤-27.38	PASS
		2462	Reference	-8.11	-8.11	---	PASS
			30~1000	-8.11	-60.02	≤-28.11	PASS
			1000~26500	-8.11	-50.31	≤-28.11	PASS
11N20	Ant1	2412	Reference	-5.61	-5.61	---	PASS
			30~1000	-5.61	-59.72	≤-25.61	PASS
			1000~26500	-5.61	-50.07	≤-25.61	PASS
		2437	Reference	-7.33	-7.33	---	PASS
			30~1000	-7.33	-60.37	≤-27.33	PASS
			1000~26500	-7.33	-50.41	≤-27.33	PASS
		2462	Reference	-8.09	-8.09	---	PASS
			30~1000	-8.09	-60.2	≤-28.09	PASS
			1000~26500	-8.09	-50.35	≤-28.09	PASS
11N40	Ant1	2422	Reference	-9.25	-9.25	---	PASS
			30~1000	-9.25	-61.77	≤-29.25	PASS
			1000~26500	-9.25	-50.07	≤-29.25	PASS
		2437	Reference	-9.85	-9.85	---	PASS
			30~1000	-9.85	-61.76	≤-29.85	PASS
			1000~26500	-9.85	-50.19	≤-29.85	PASS
		2452	Reference	-9.72	-9.72	---	PASS
			30~1000	-9.72	-62.56	≤-29.72	PASS
			1000~26500	-9.72	-50.16	≤-29.72	PASS

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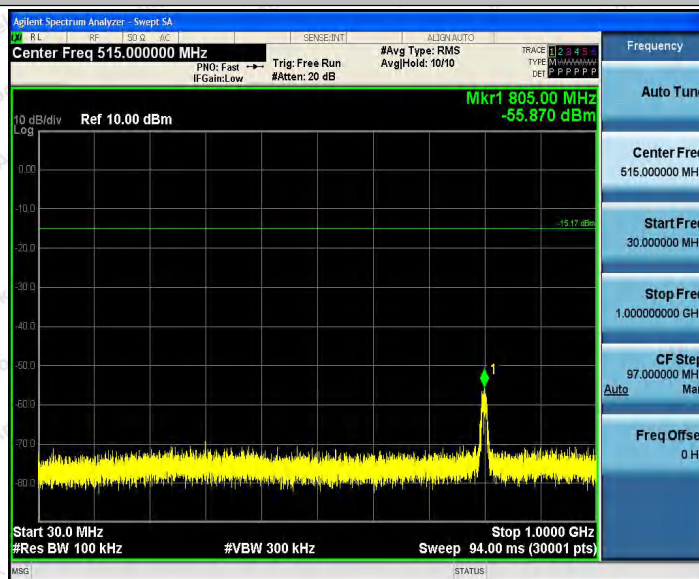
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Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

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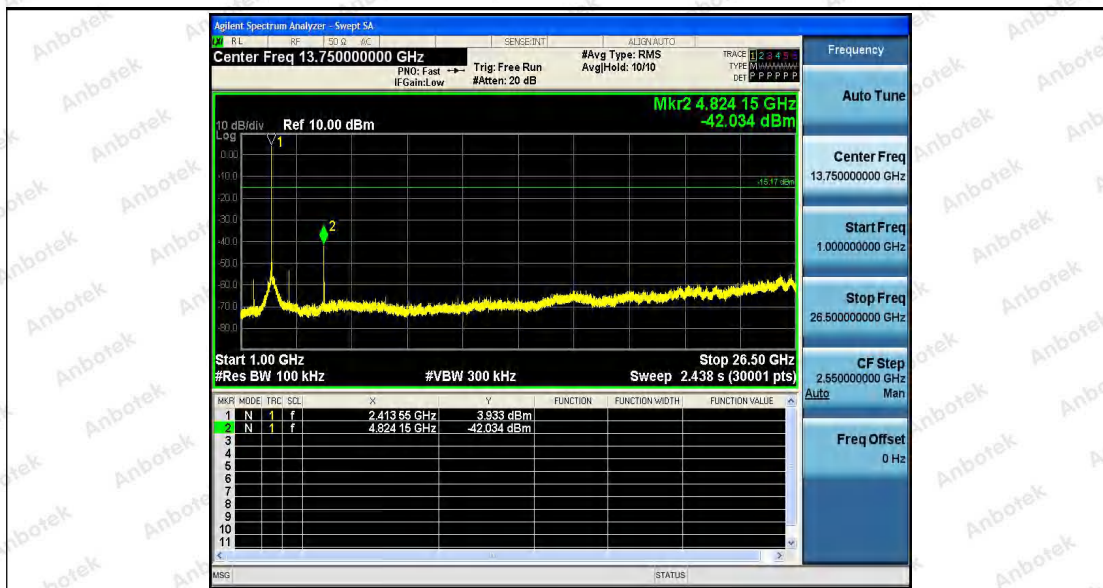
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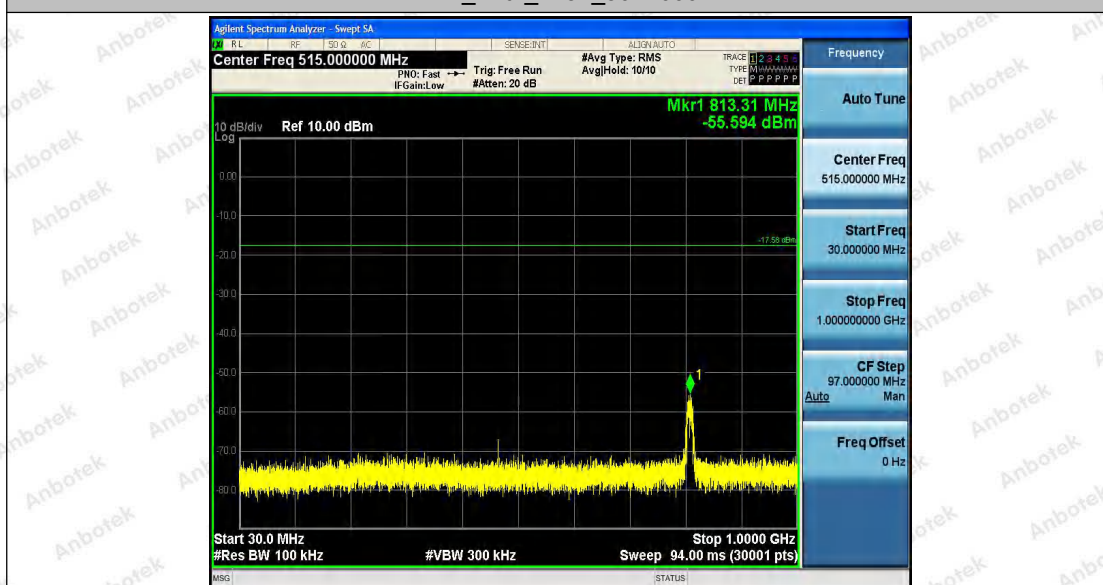
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



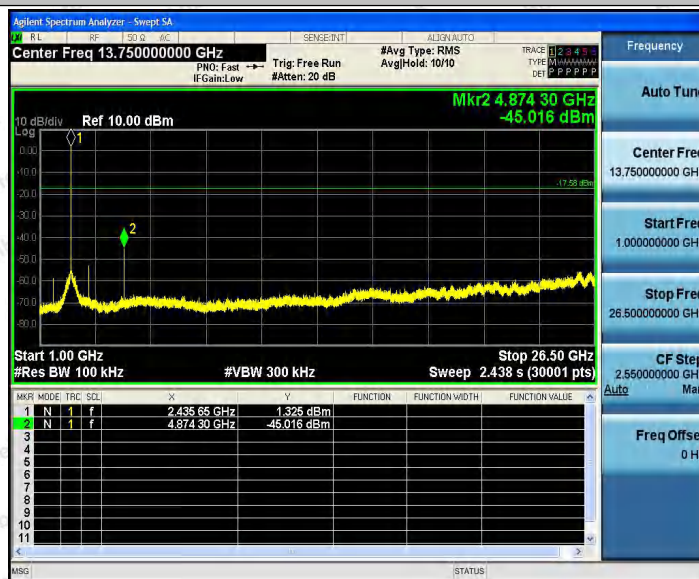
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



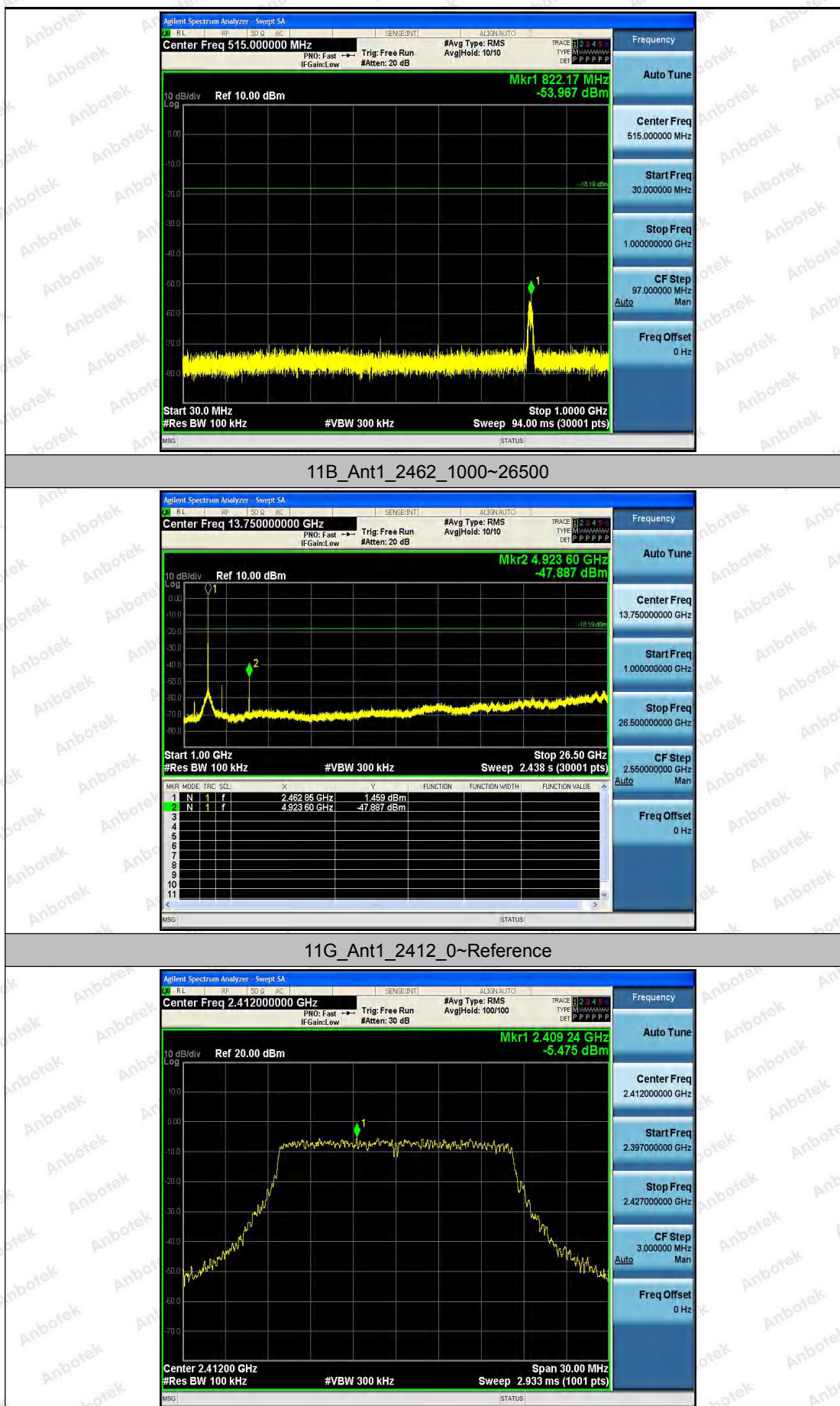
11B_Ant1_2462_30~1000

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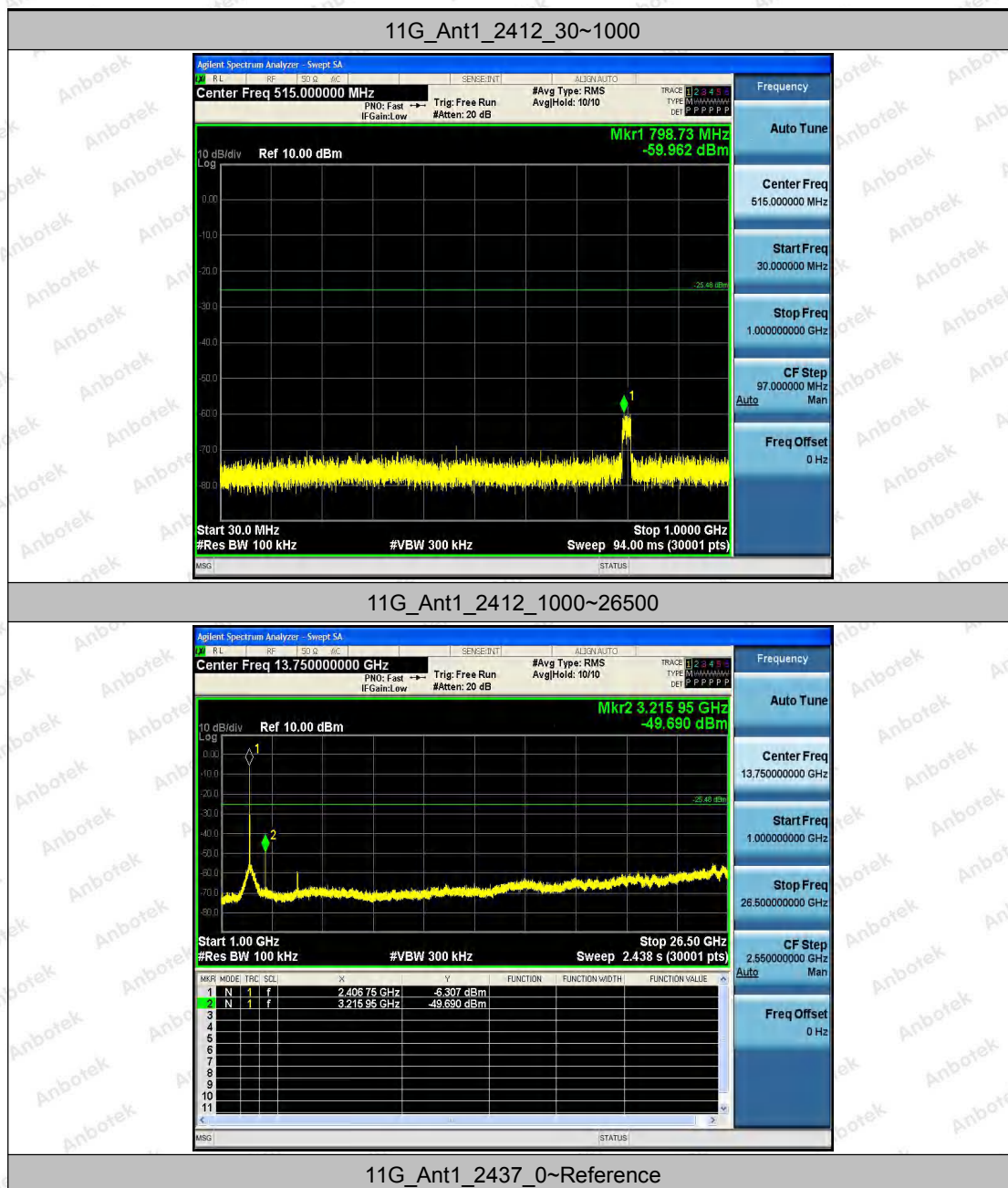


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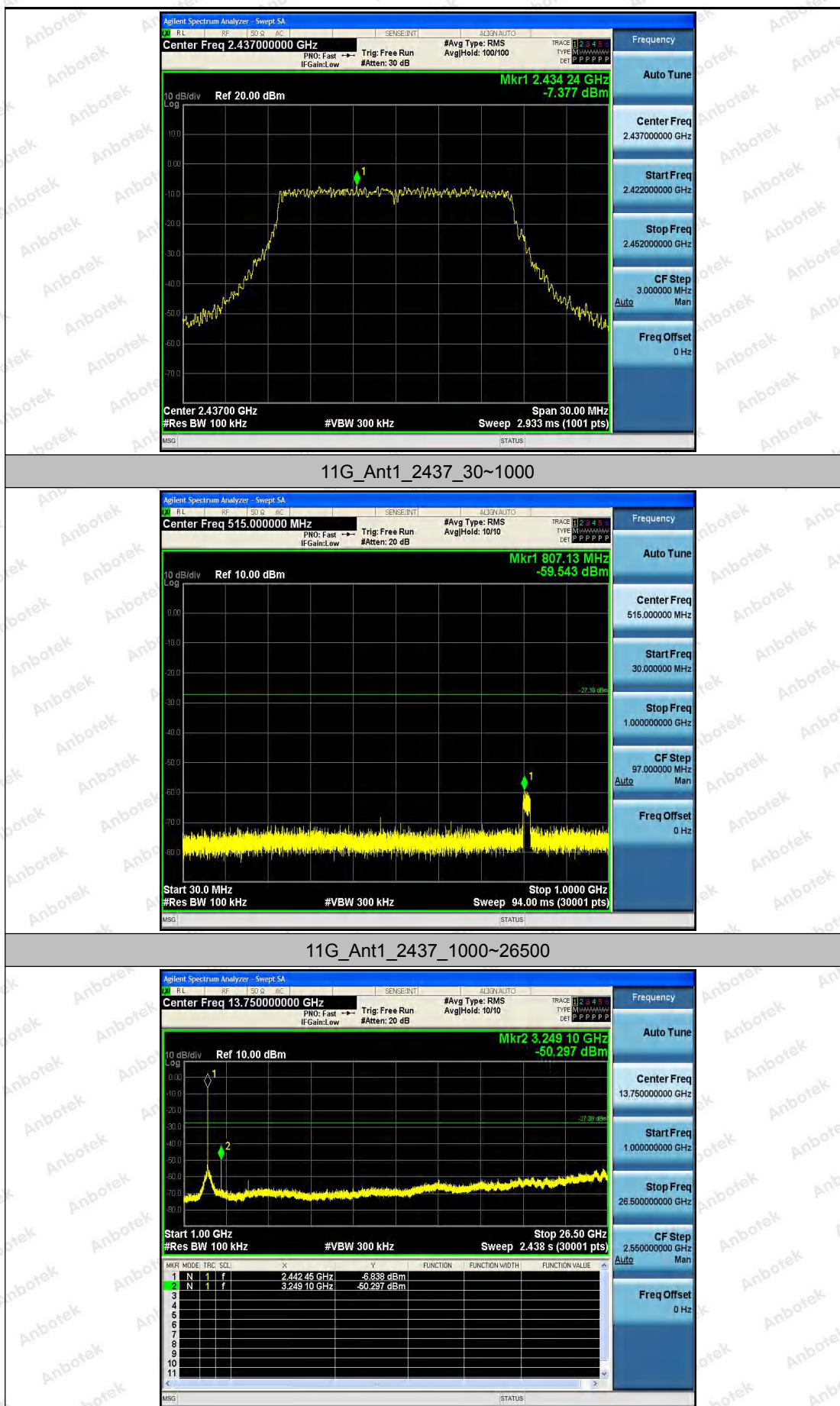


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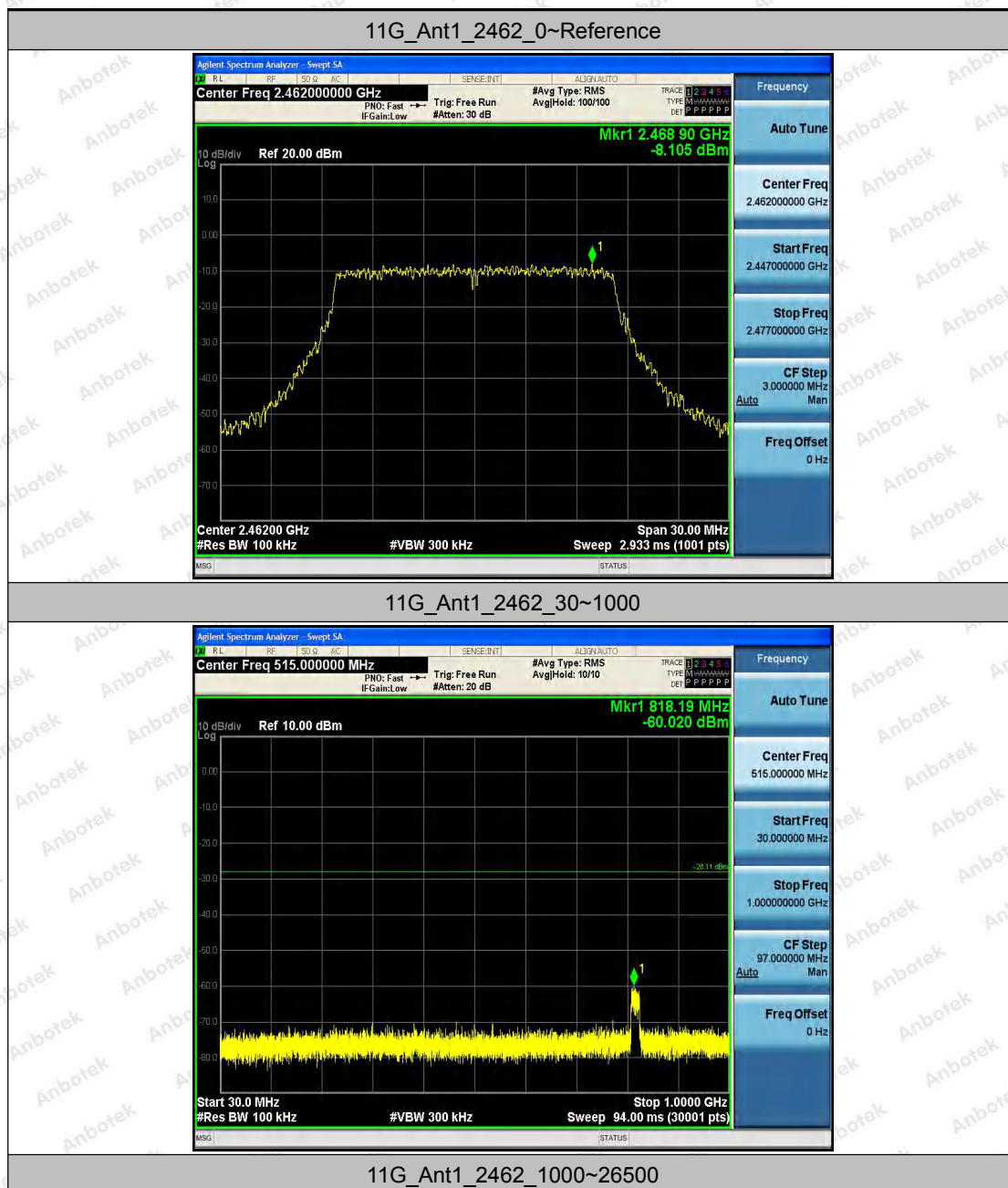


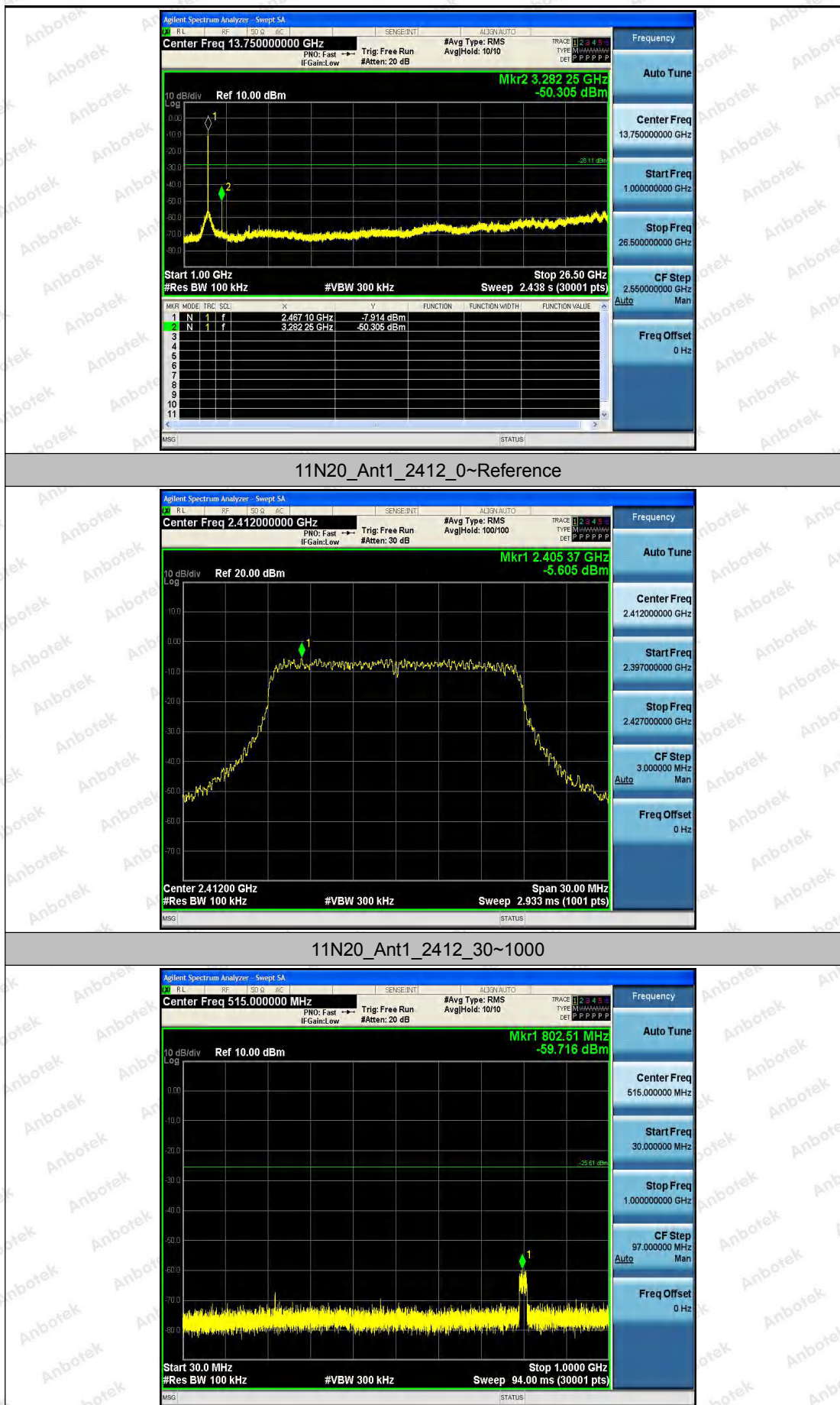
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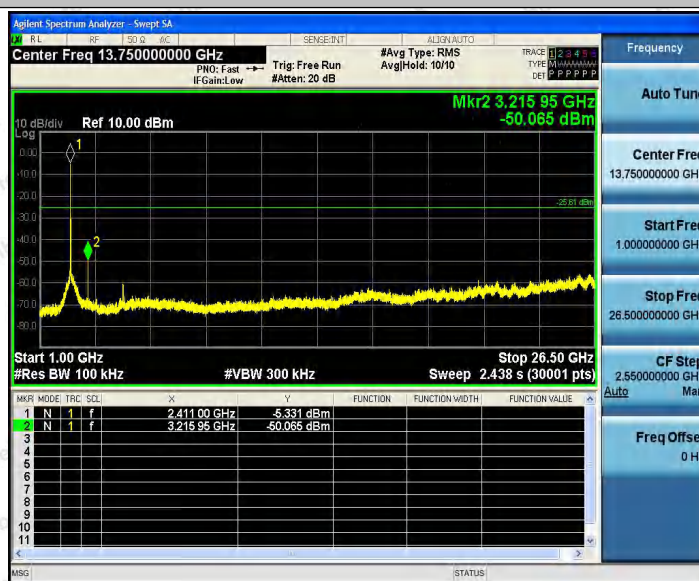
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

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11N20_Ant1_2412_1000~26500



11N20_Ant1_2437_0~Reference



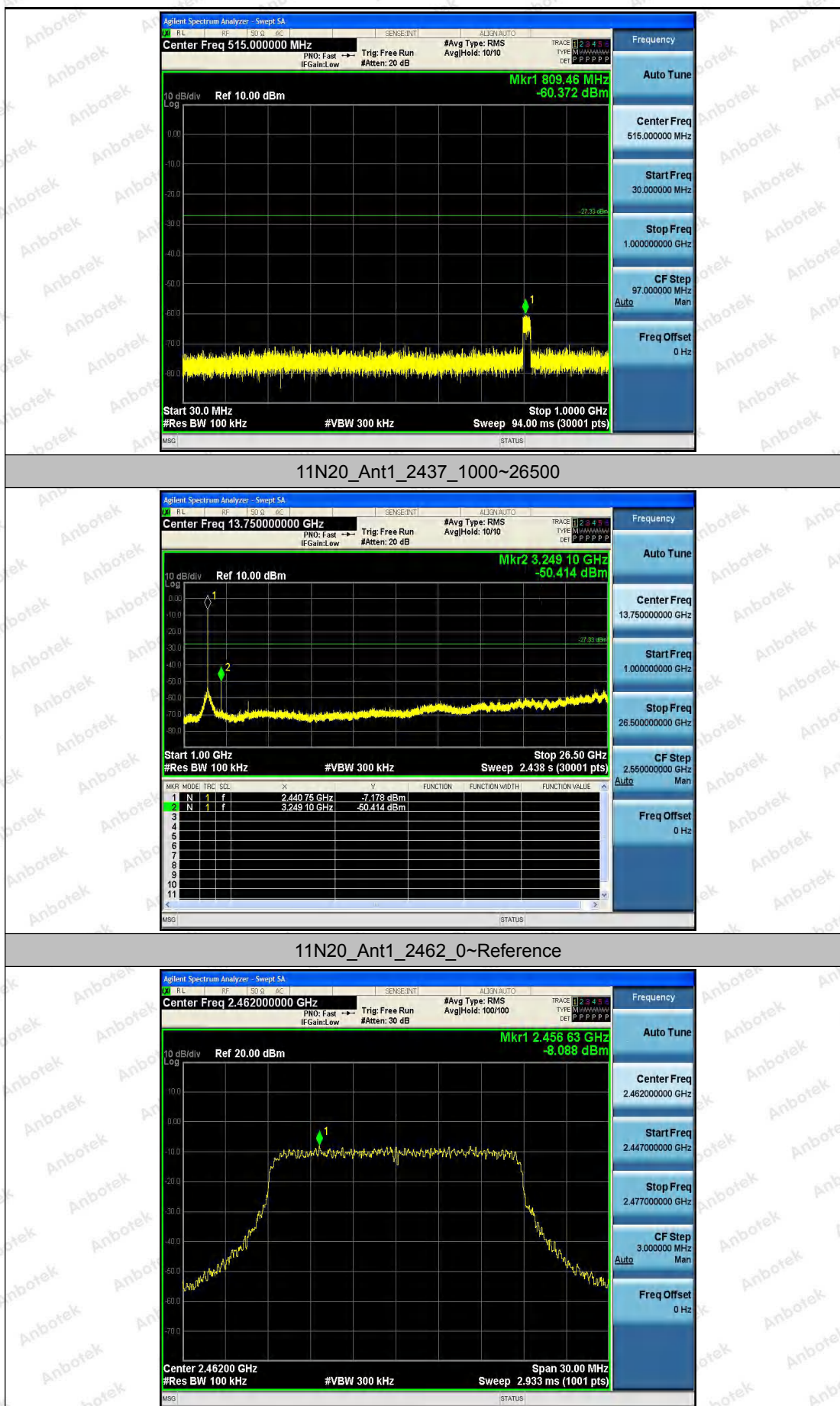
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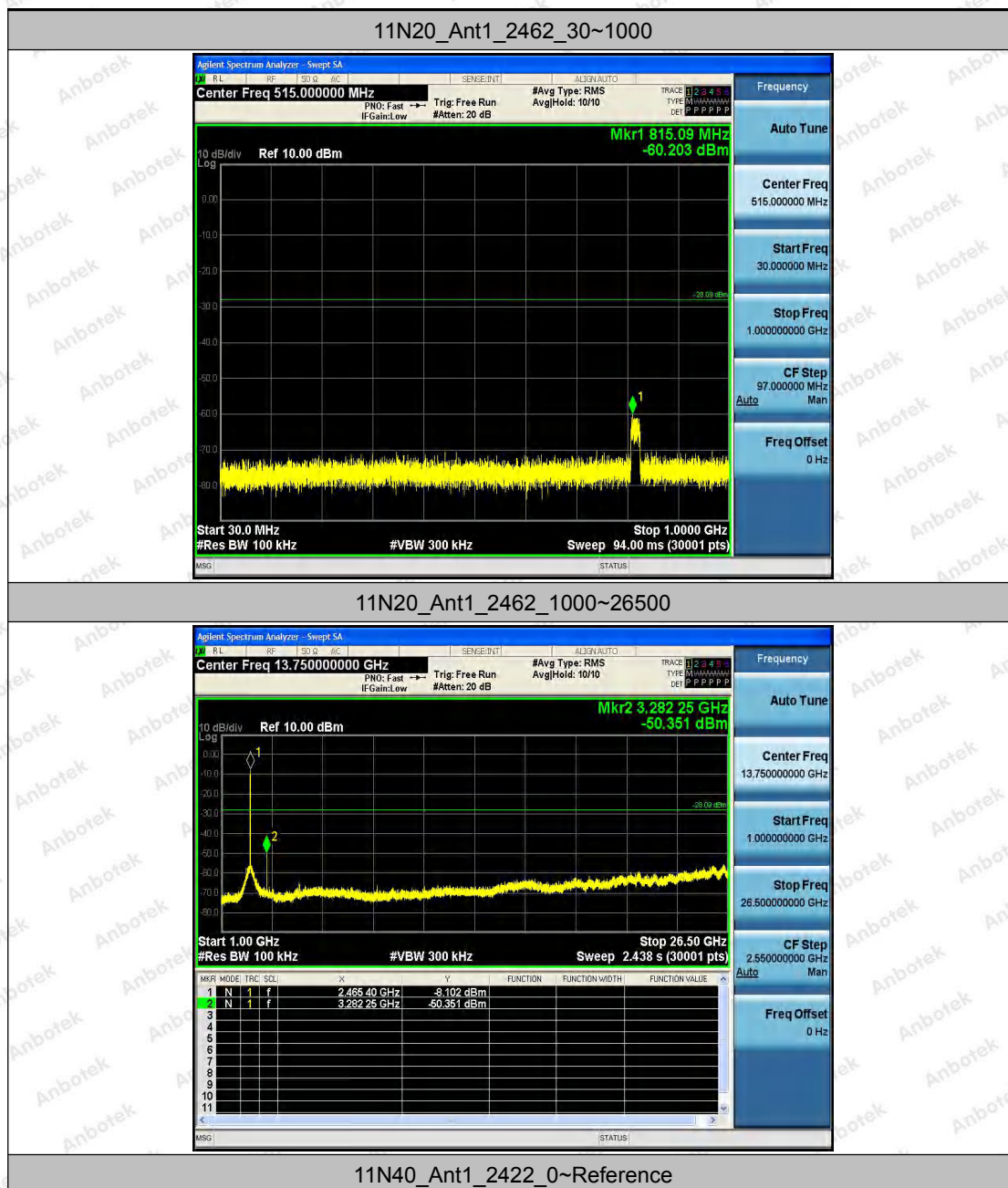


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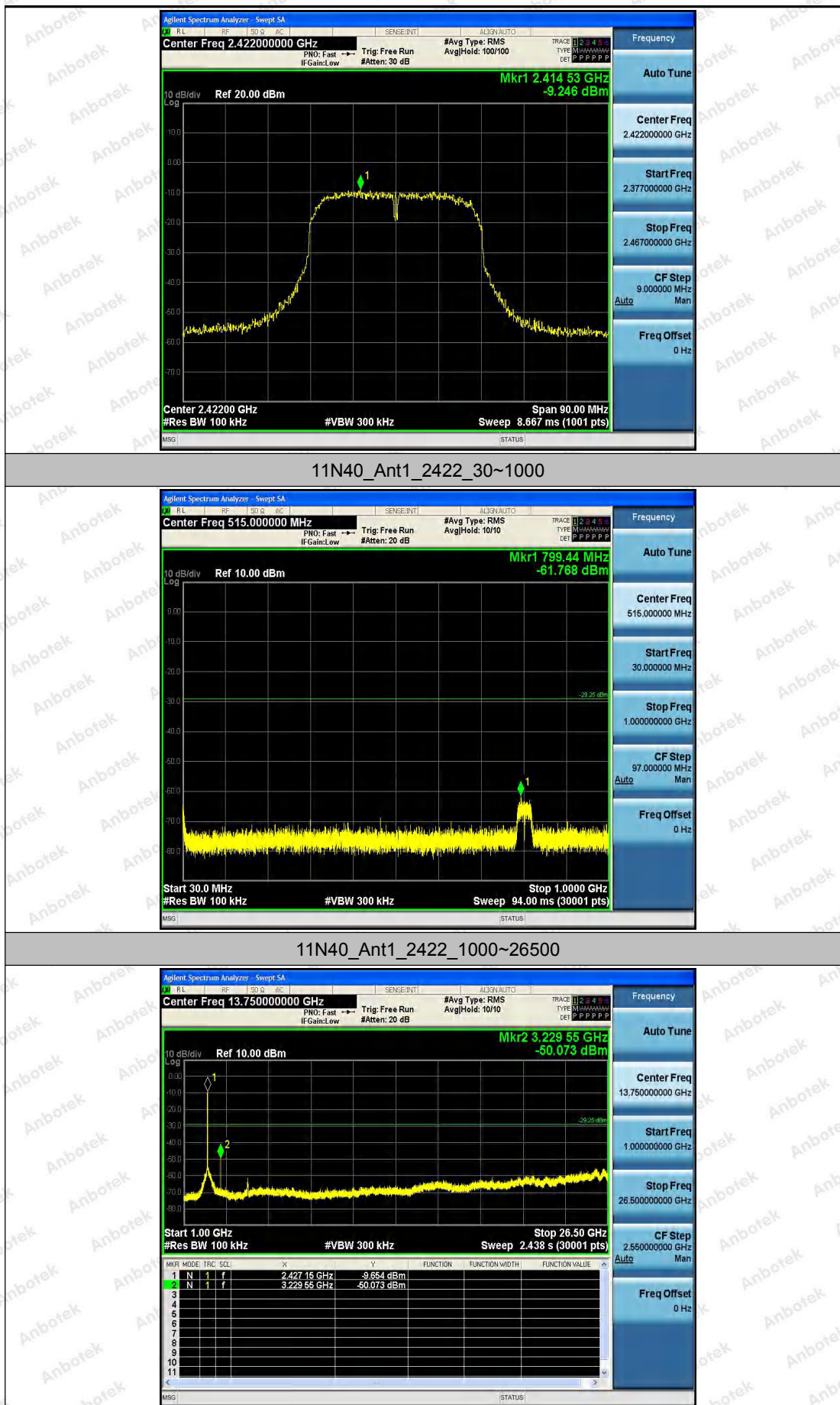


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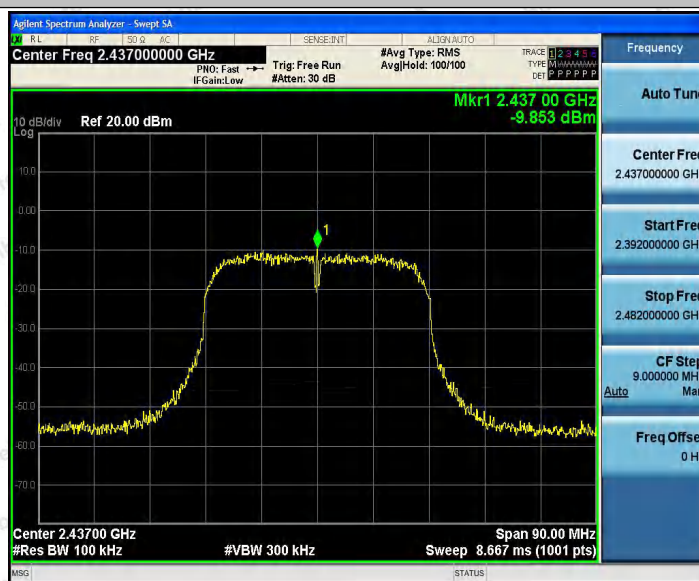
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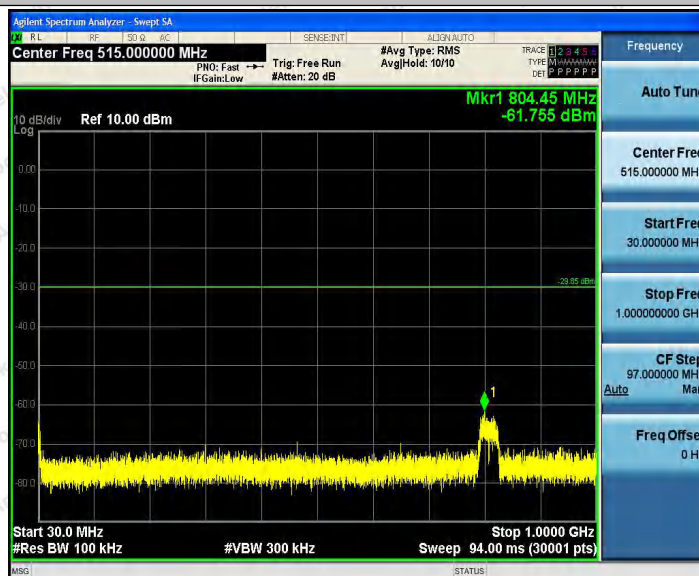
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11N40_Ant1_2437_30~1000



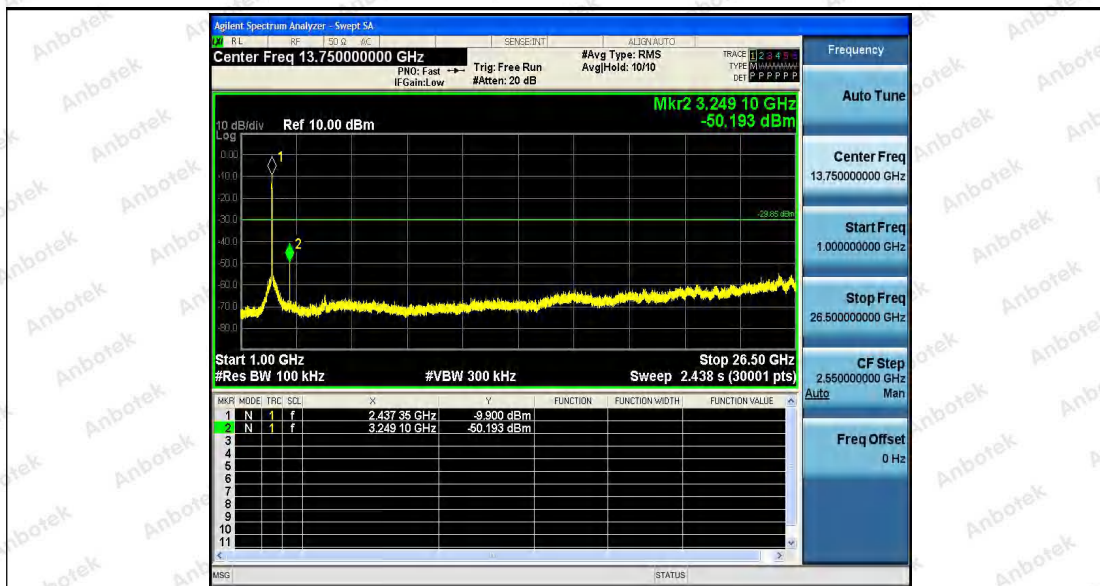
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

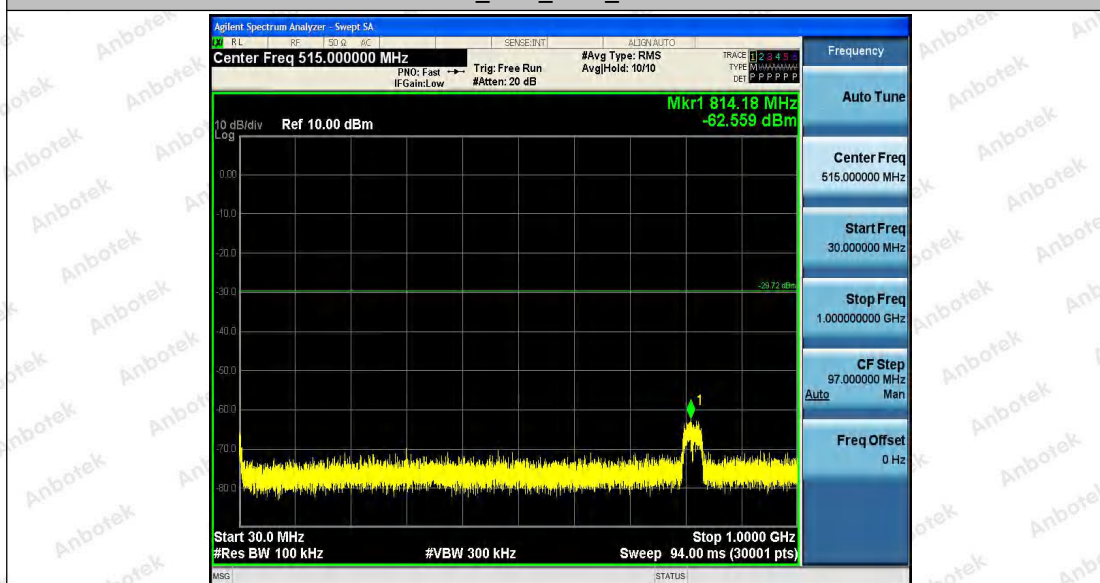
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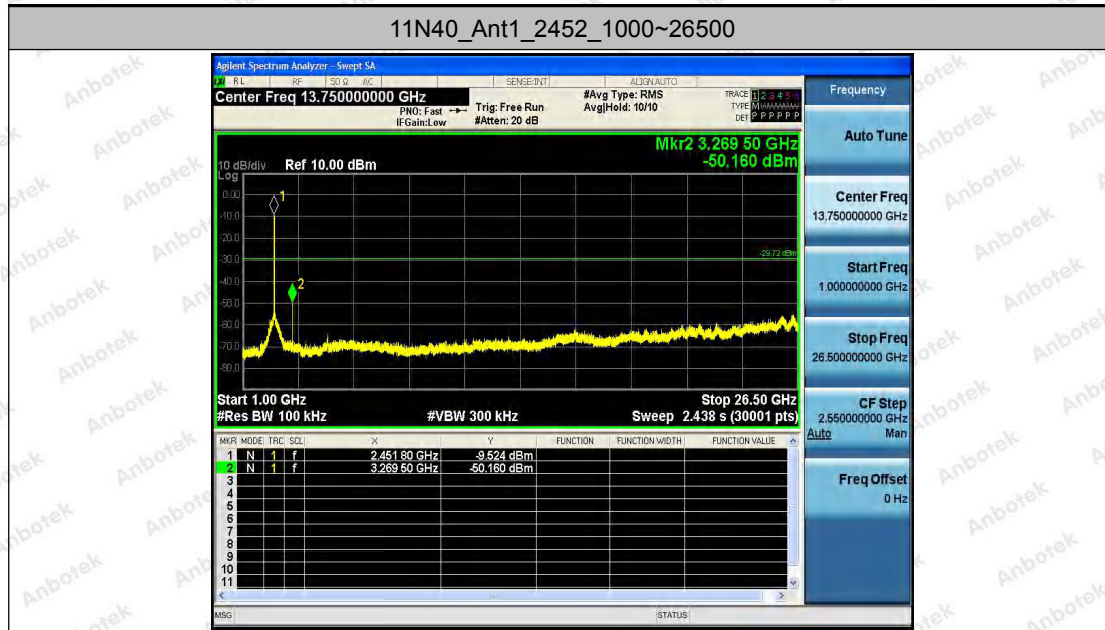


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Hotline
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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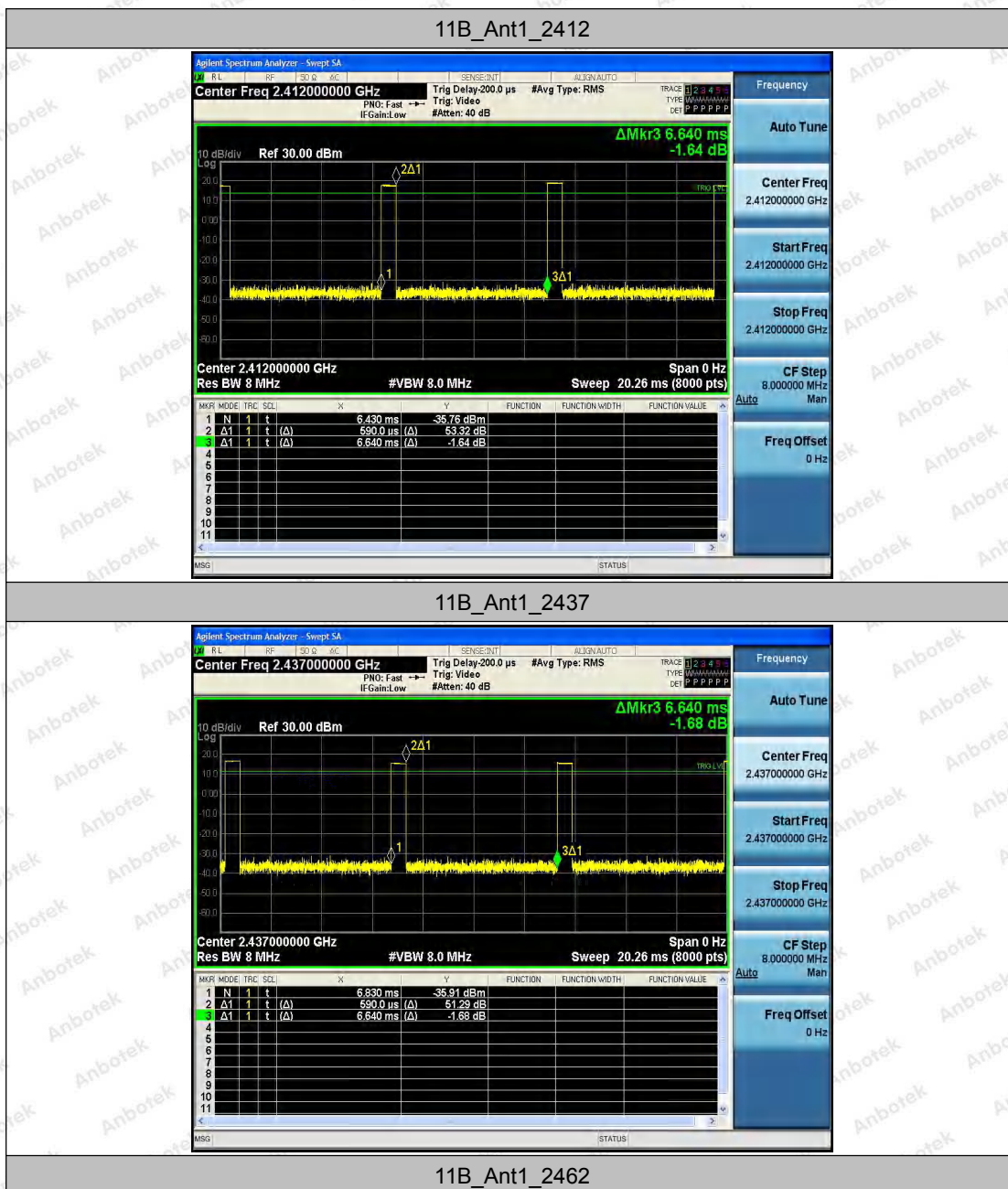
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	0.59	6.64	8.89	---	PASS
		2437	0.59	6.64	8.89	---	PASS
		2462	0.59	6.64	8.89	---	PASS
11G	Ant1	2412	0.58	6.63	8.75	---	PASS
		2437	0.59	6.63	8.90	---	PASS
		2462	0.58	6.63	8.75	---	PASS
11N20	Ant1	2412	0.56	6.61	8.47	---	PASS
		2437	0.56	6.60	8.48	---	PASS
		2462	0.56	6.60	8.48	---	PASS
11N40	Ant1	2422	0.58	6.63	8.75	---	PASS
		2437	0.58	6.63	8.75	---	PASS
		2452	0.58	6.63	8.75	---	PASS

Test Graphs

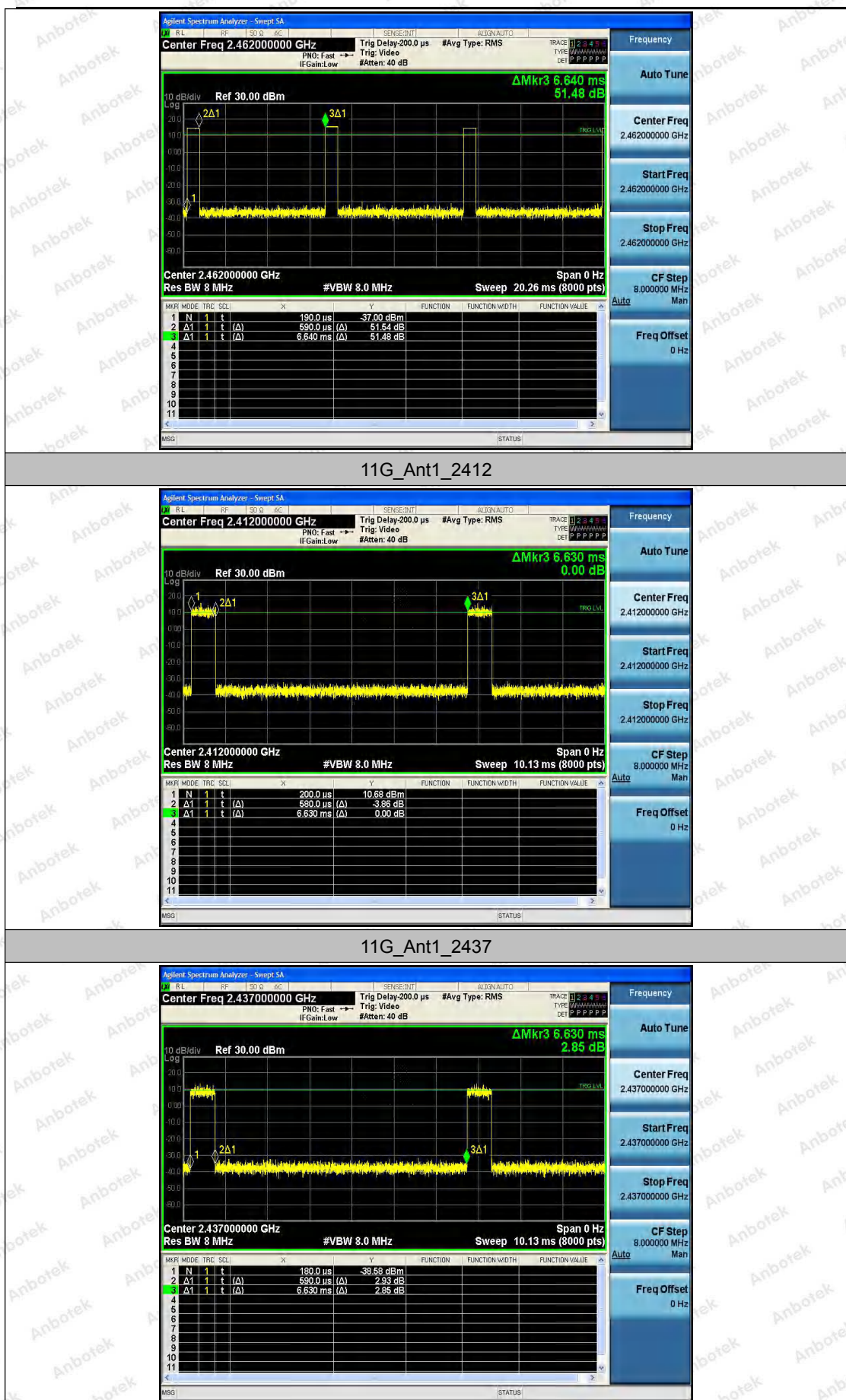


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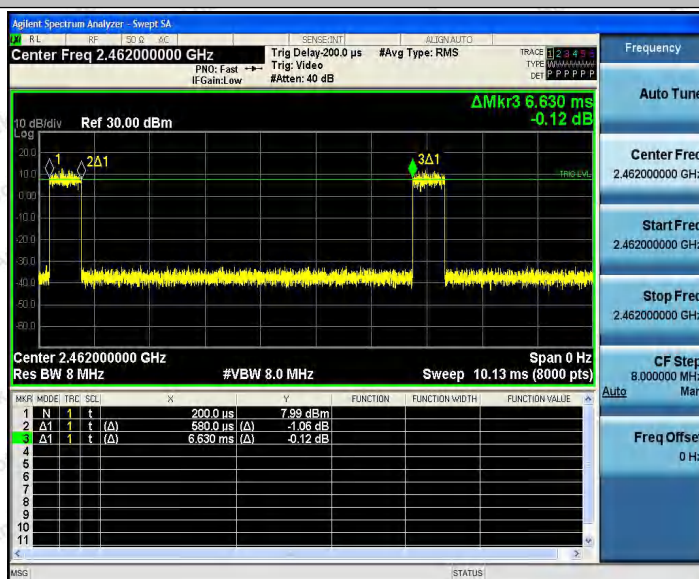
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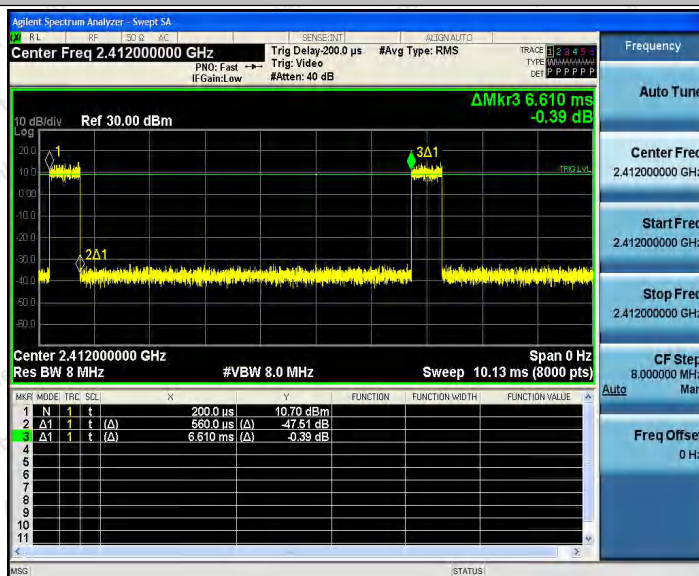
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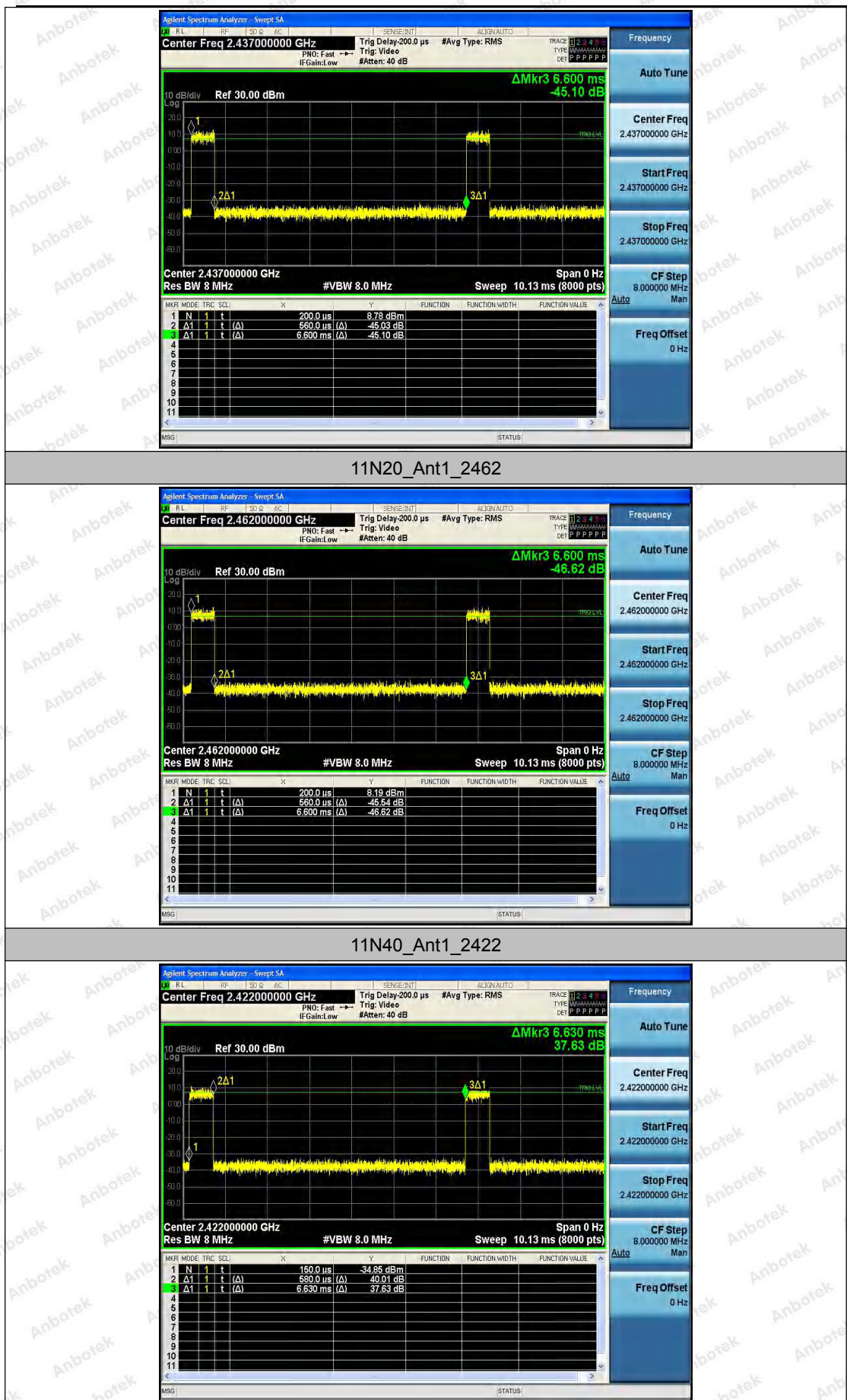
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11N20_Ant1_2412



11N20_Ant1_2437

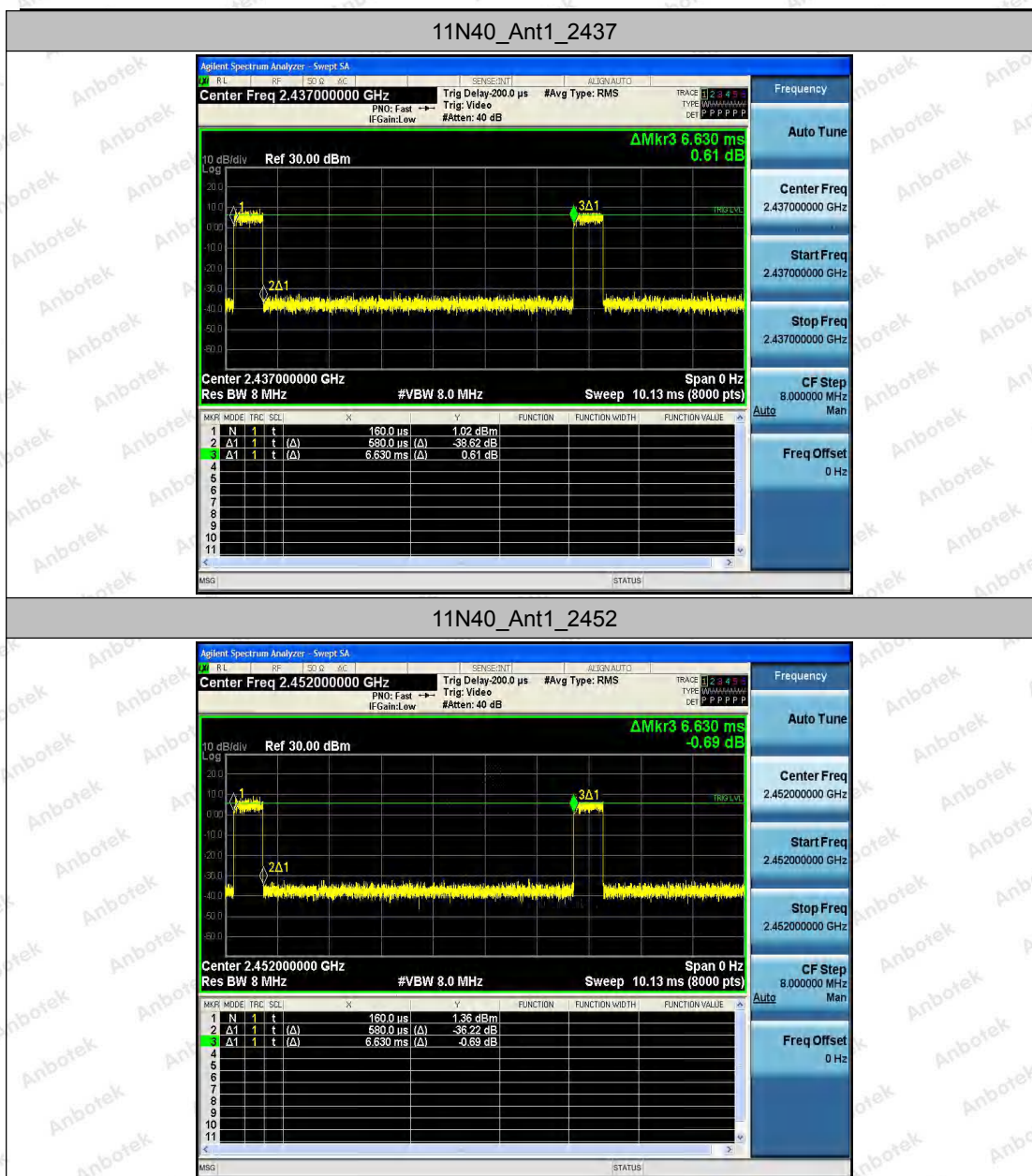


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