

Appendix Test Data

Report No.:	18220WC30044603	Test Sample No.:	1-2-2
Start Test Date:	2023.03.21	Finish Test Date:	2023.04.10
Test Engineer:	<i>Jonny He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.7°C	Relative Humidity:	43%
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	8.040	2407.960	2416.000	≥0.5	PASS
		2437	8.040	2433.480	2441.520	≥0.5	PASS
		2462	8.520	2458.000	2466.520	≥0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	≥0.5	PASS
		2437	15.120	2429.440	2444.560	≥0.5	PASS
		2462	15.120	2454.440	2469.560	≥0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.440	2419.560	≥0.5	PASS
		2437	15.120	2429.440	2444.560	≥0.5	PASS
		2462	15.120	2454.440	2469.560	≥0.5	PASS
11N40SISO	Ant1	2422	35.100	2404.420	2439.520	≥0.5	PASS
		2437	33.840	2419.420	2453.260	≥0.5	PASS
		2452	35.100	2434.480	2469.580	≥0.5	PASS
11AX20SISO	Ant1	2412	16.360	2404.440	2420.800	≥0.5	PASS
		2437	15.120	2429.440	2444.560	≥0.5	PASS
		2462	16.360	2454.440	2470.800	≥0.5	PASS
11AX40SISO	Ant1	2422	35.100	2404.420	2439.520	≥0.5	PASS
		2437	33.780	2419.480	2453.260	≥0.5	PASS
		2452	35.940	2434.480	2470.420	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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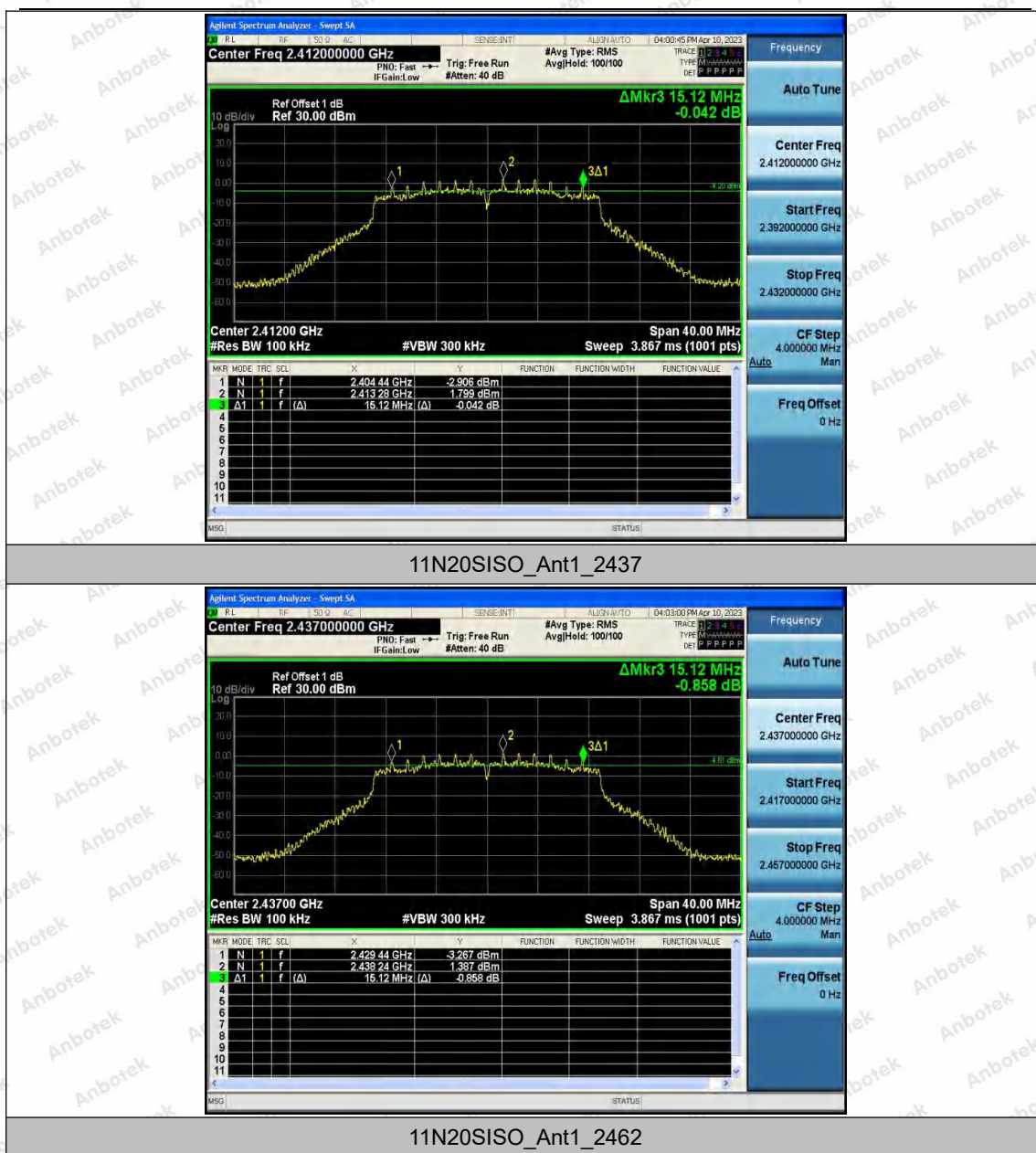


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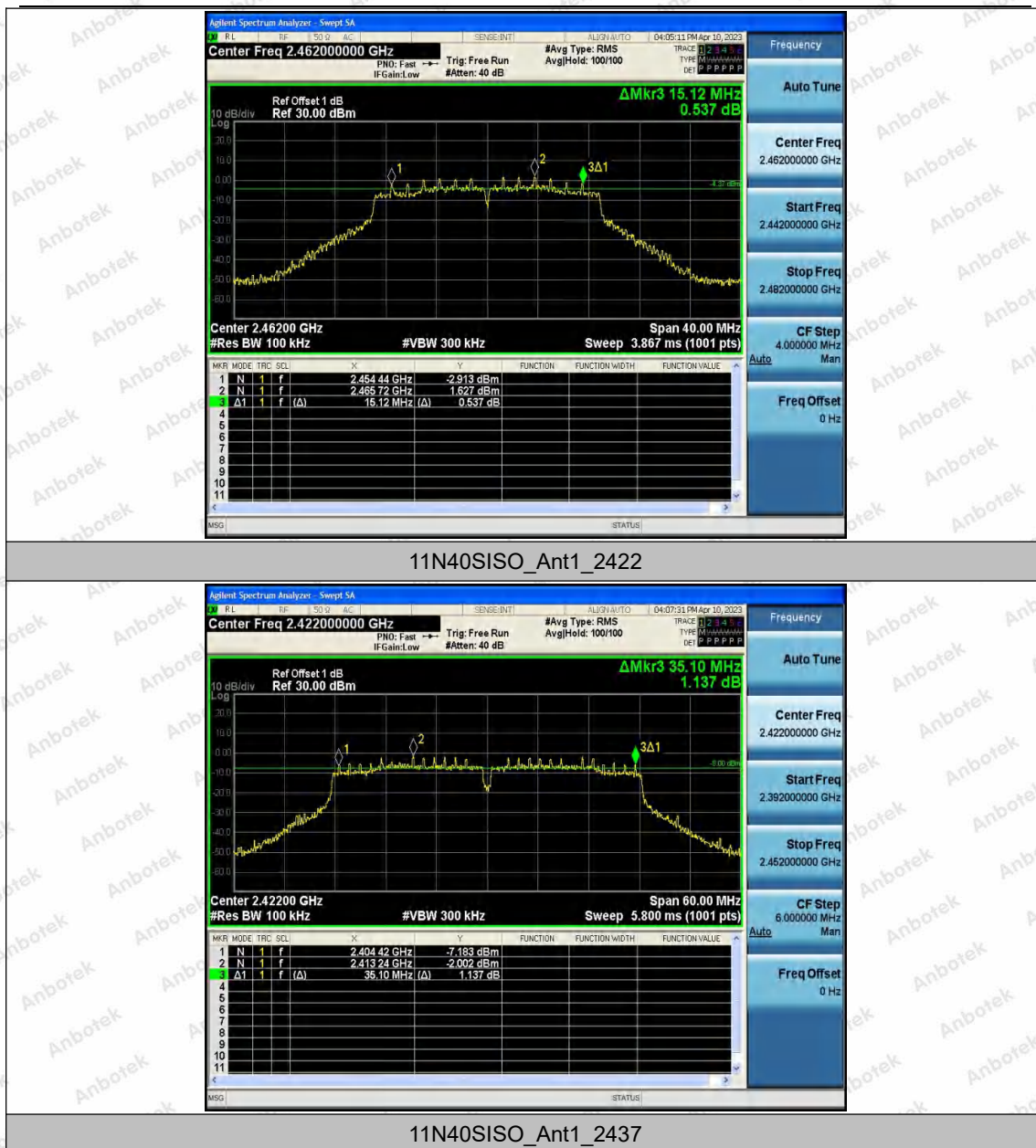
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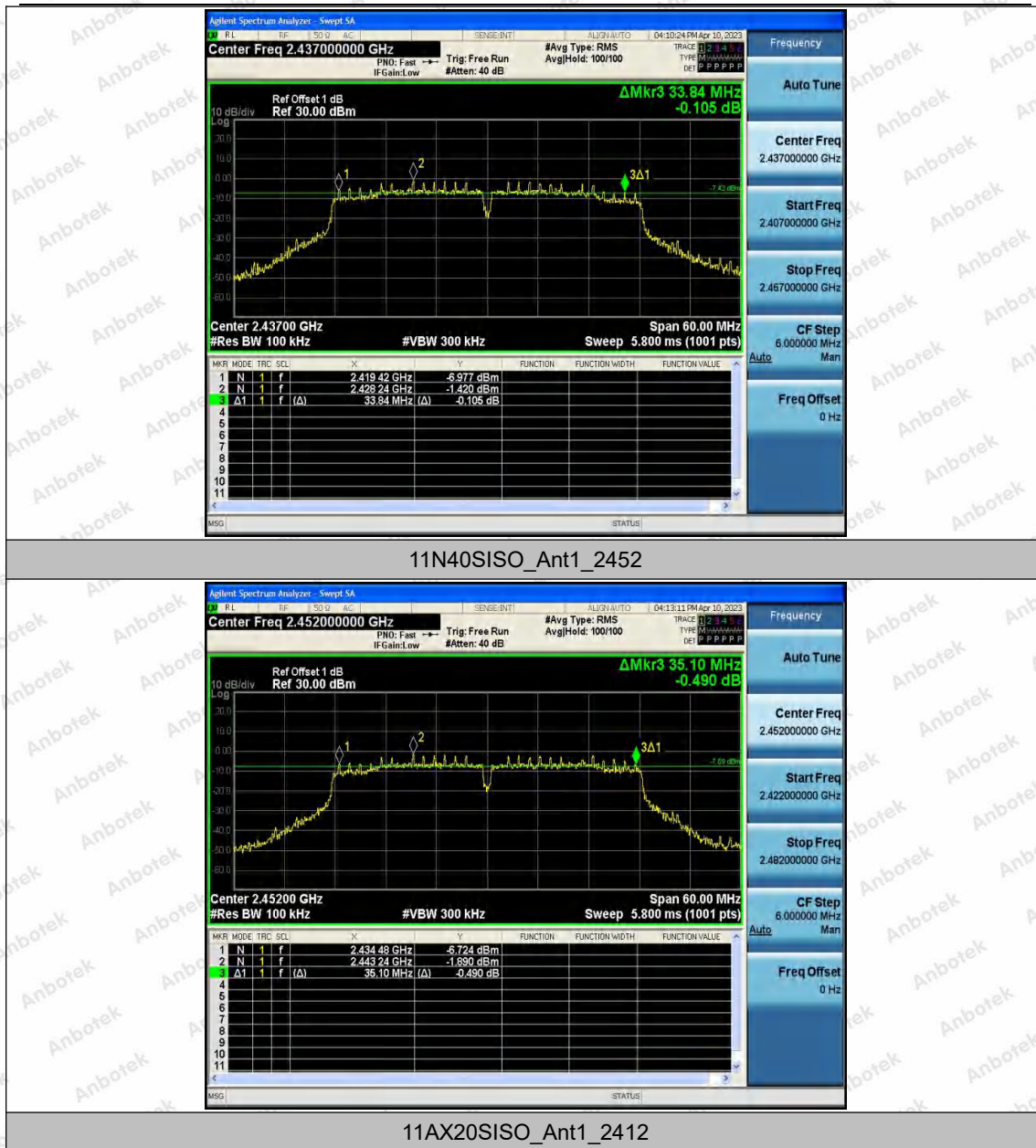


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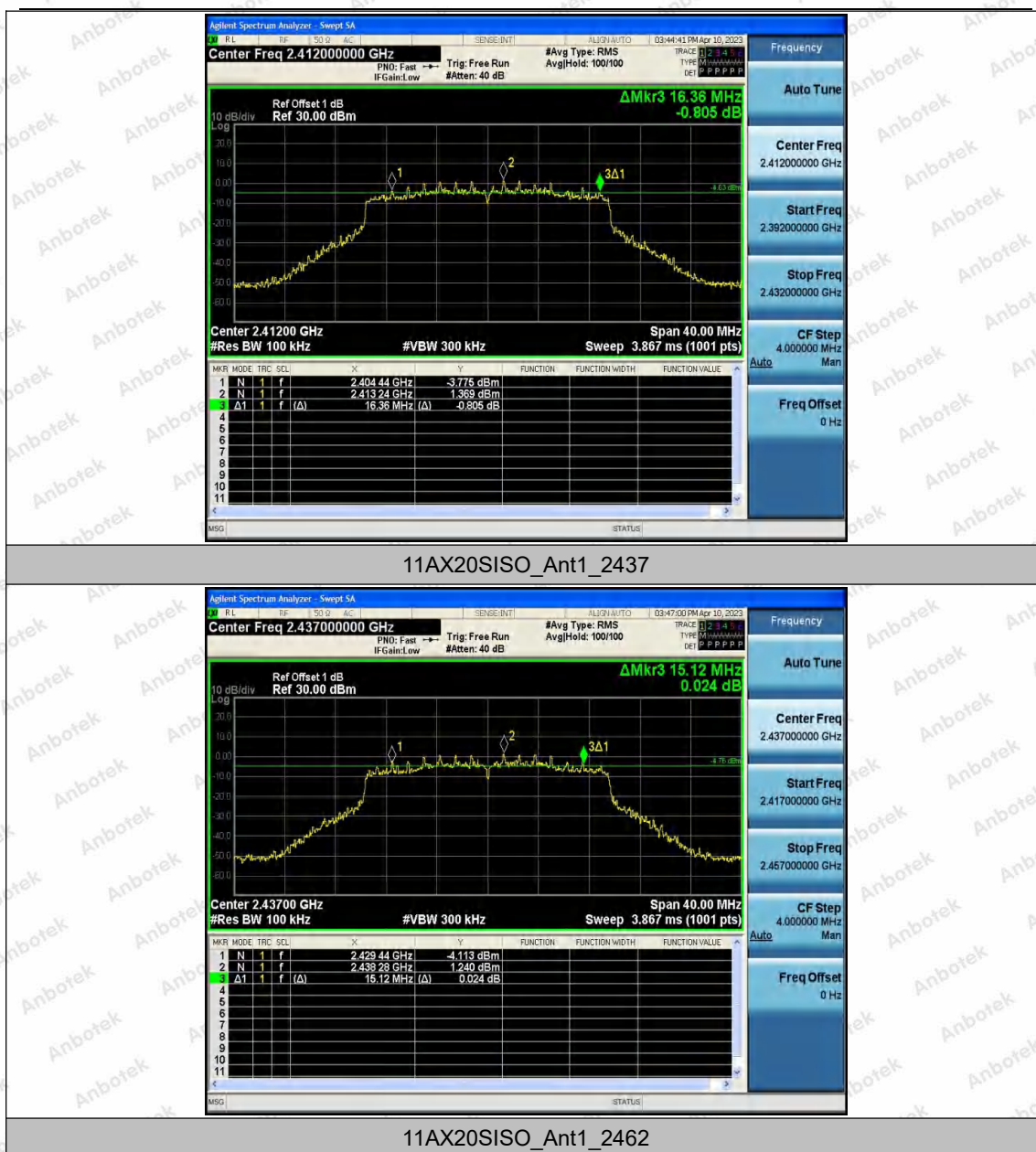


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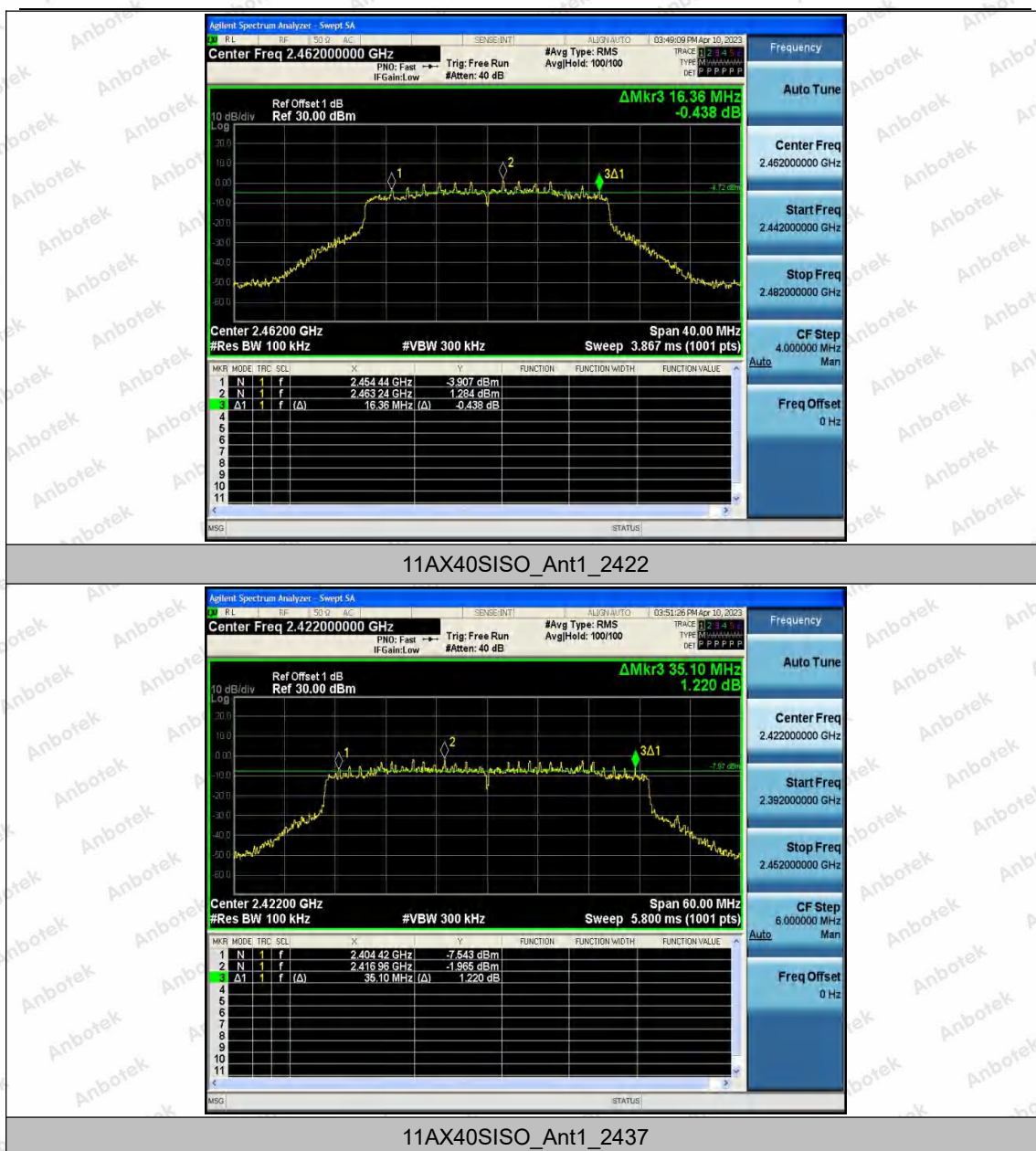
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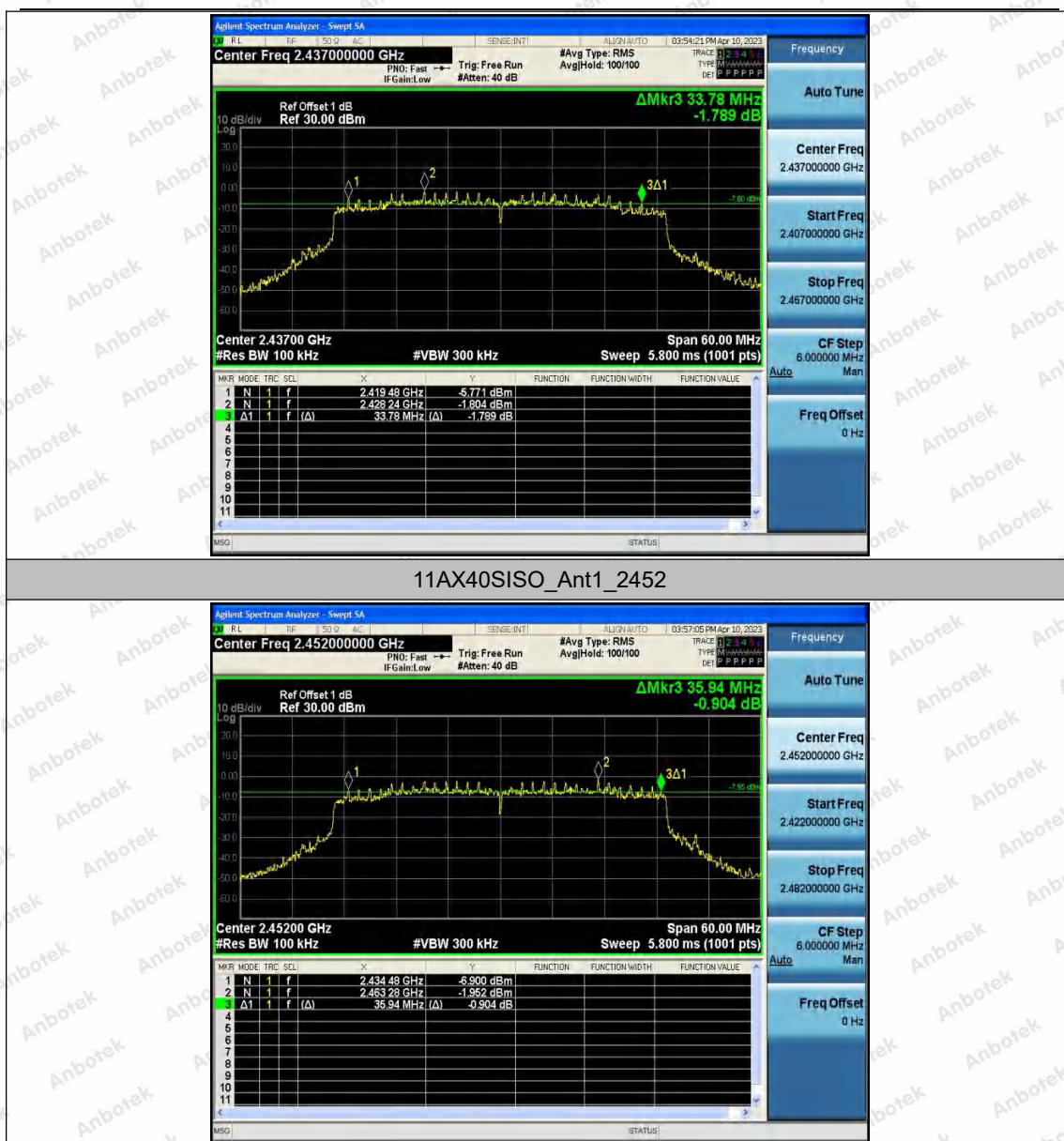
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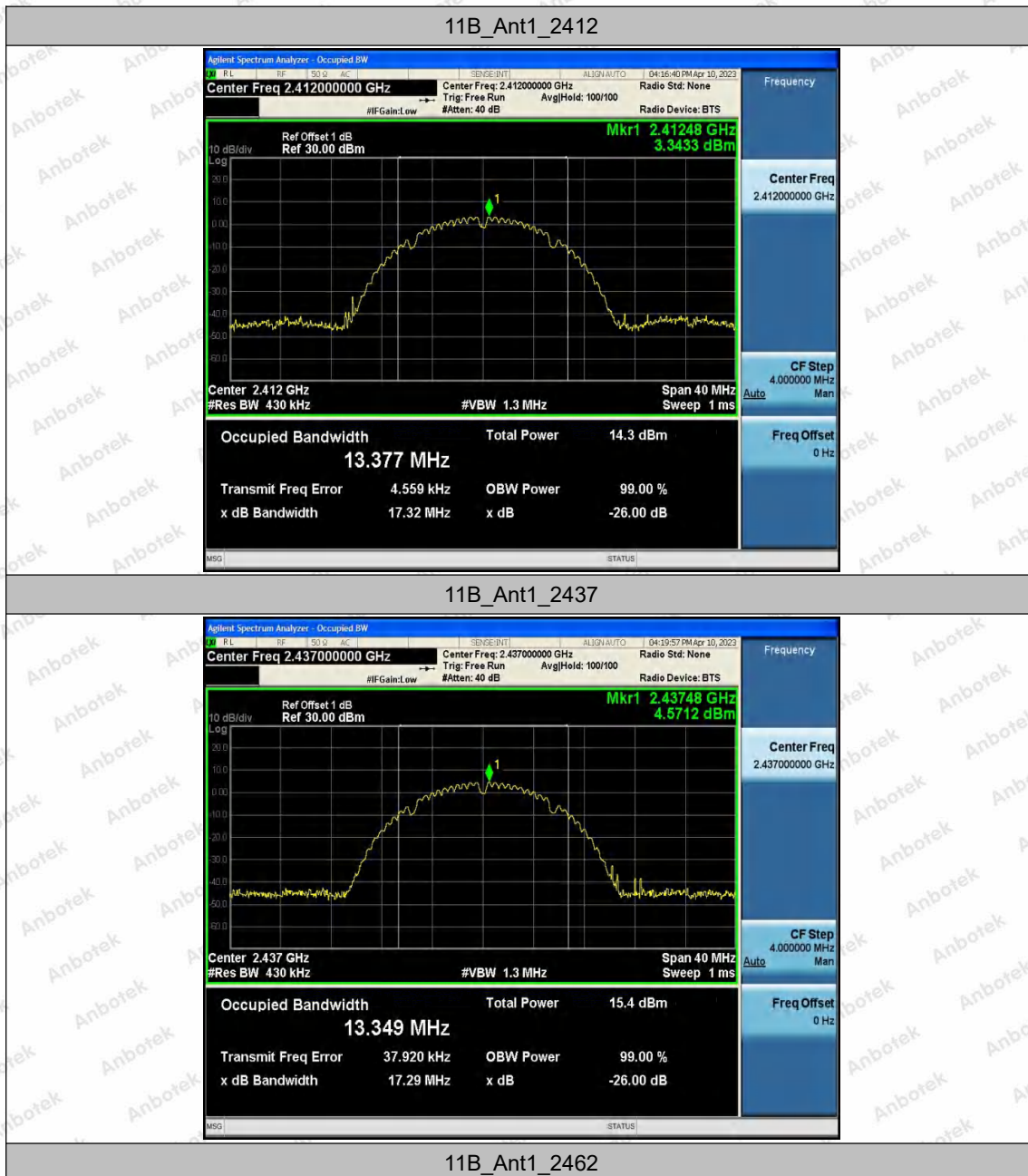
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.377	2405.3161	2418.6931	---	---
		2437	13.349	2430.3634	2443.7124	---	---
		2462	13.545	2455.3032	2468.8482	---	---
11G	Ant1	2412	16.814	2403.6408	2420.4548	---	---
		2437	16.781	2428.6783	2445.4593	---	---
		2462	16.861	2453.6400	2470.5010	---	---
11N20SISO	Ant1	2412	17.885	2403.0658	2420.9508	---	---
		2437	17.873	2428.0739	2445.9469	---	---
		2462	17.913	2453.0421	2470.9551	---	---
11N40SISO	Ant1	2422	36.023	2404.0044	2440.0274	---	---
		2437	35.838	2418.9676	2454.8056	---	---
		2452	35.948	2434.1081	2470.0561	---	---
11AX20SISO	Ant1	2412	18.899	2402.5837	2421.4827	---	---
		2437	18.934	2427.5742	2446.5082	---	---
		2462	18.914	2452.5675	2471.4815	---	---
11AX40SISO	Ant1	2422	37.578	2403.1935	2440.7715	---	---
		2437	37.414	2418.2095	2455.6235	---	---
		2452	37.574	2433.3201	2470.8941	---	---



Test Graphs



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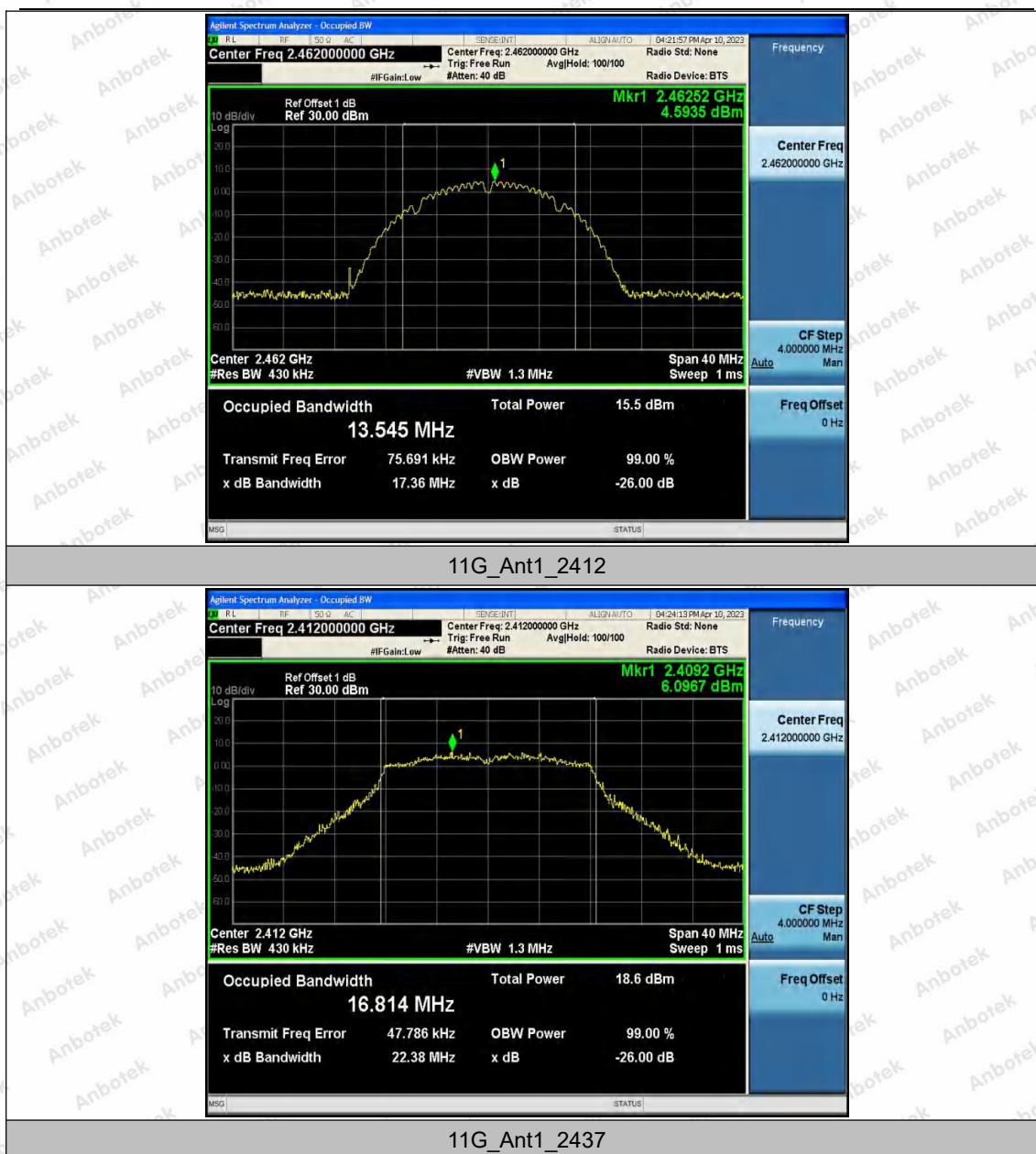


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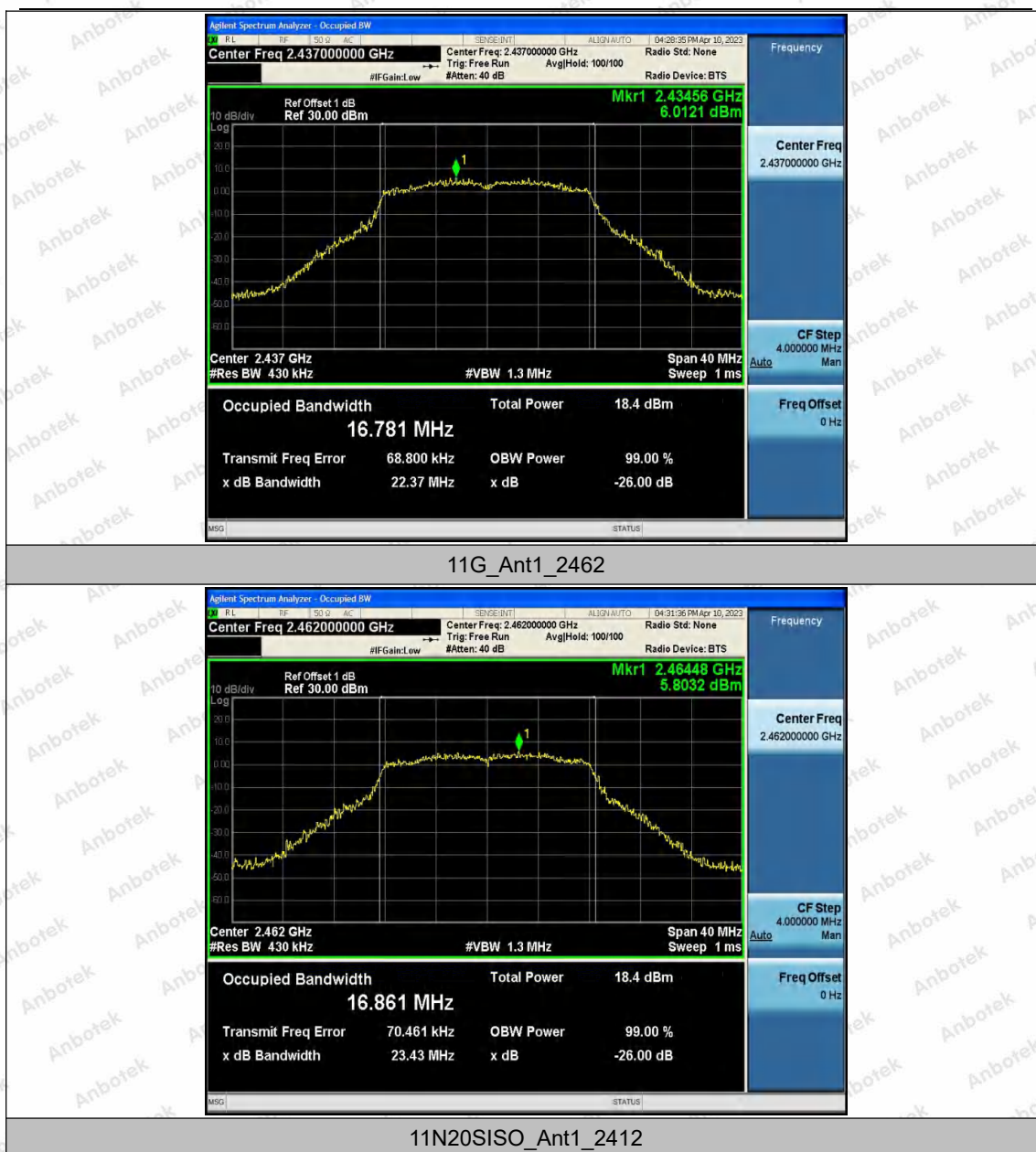
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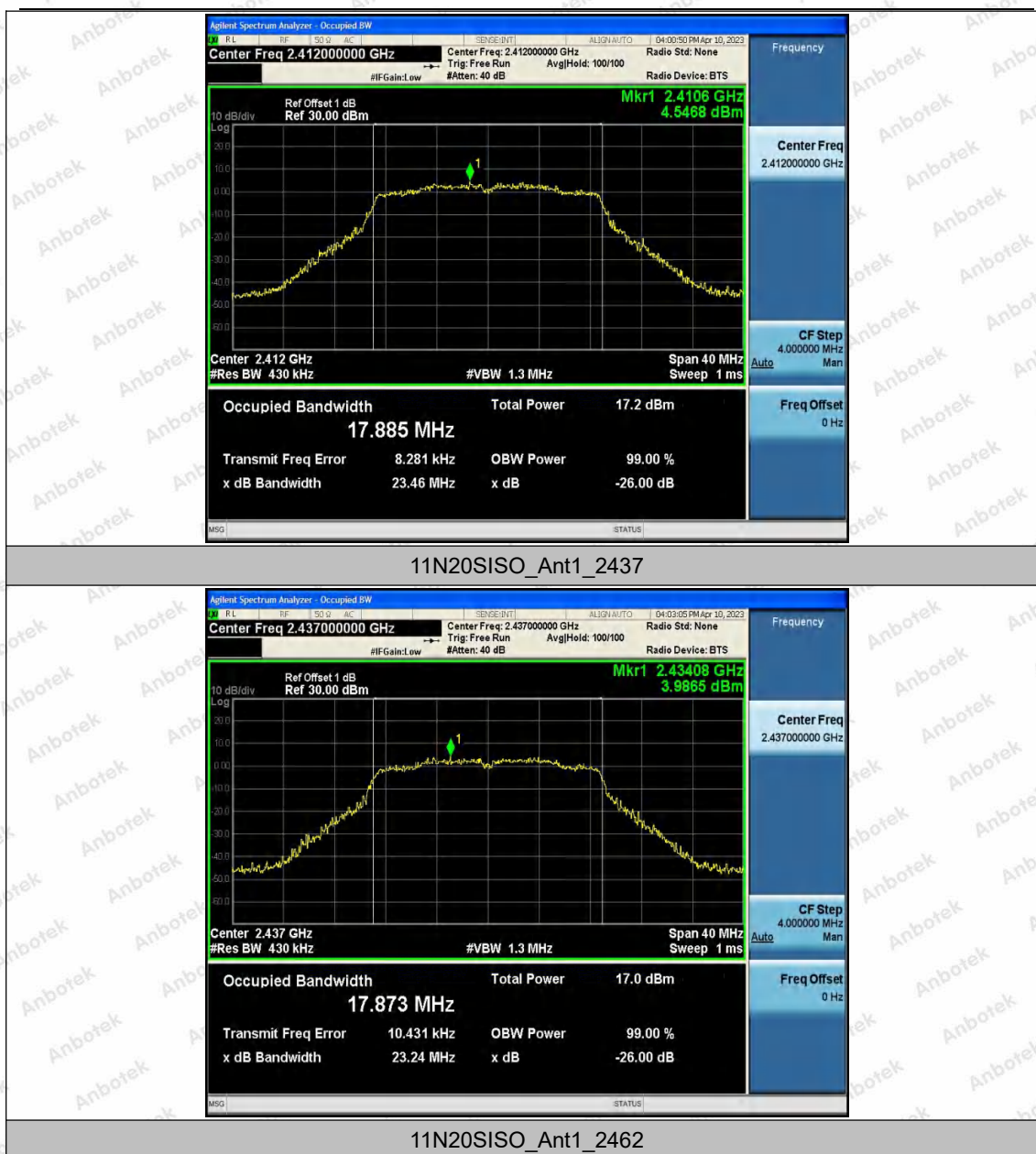
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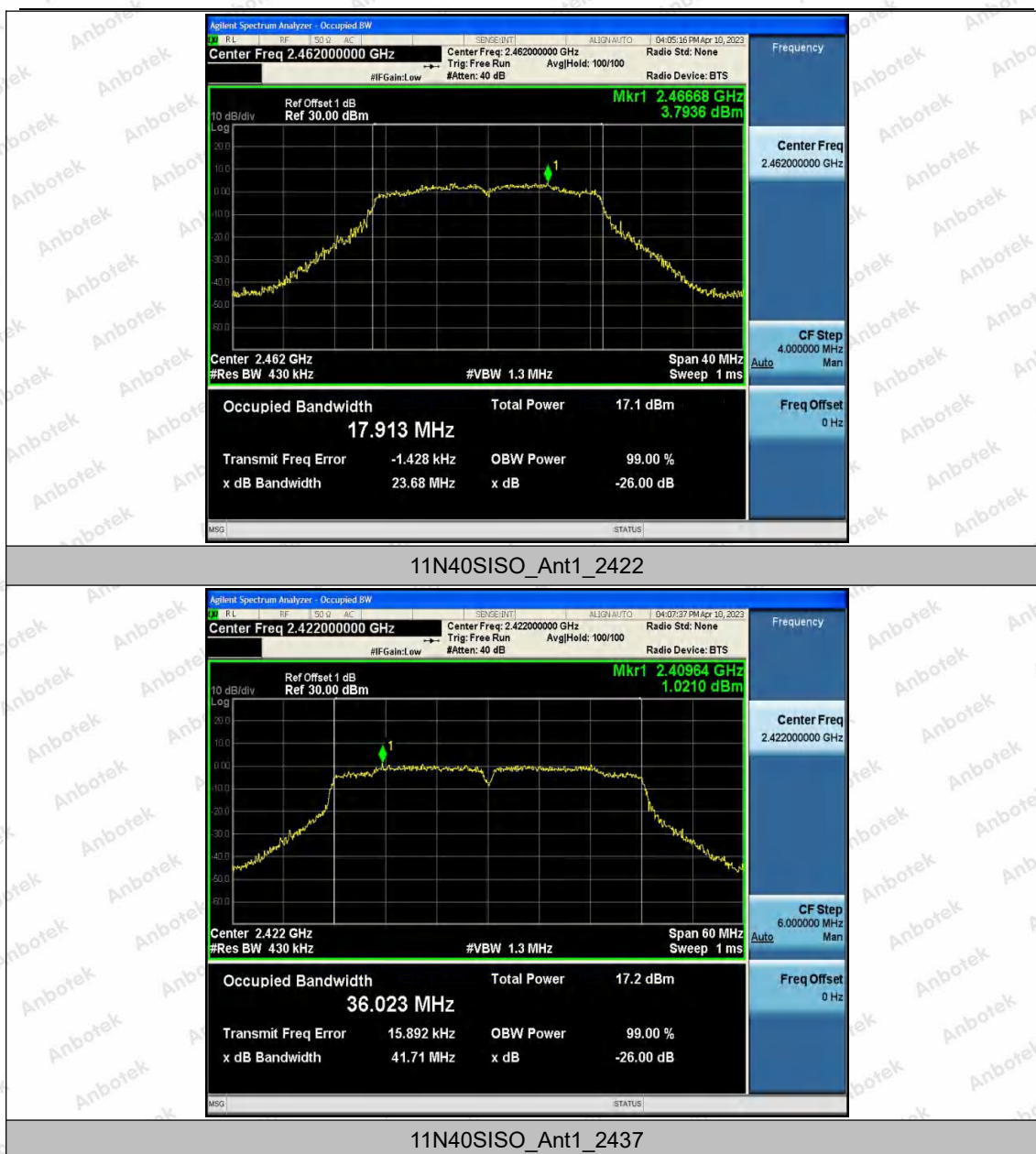
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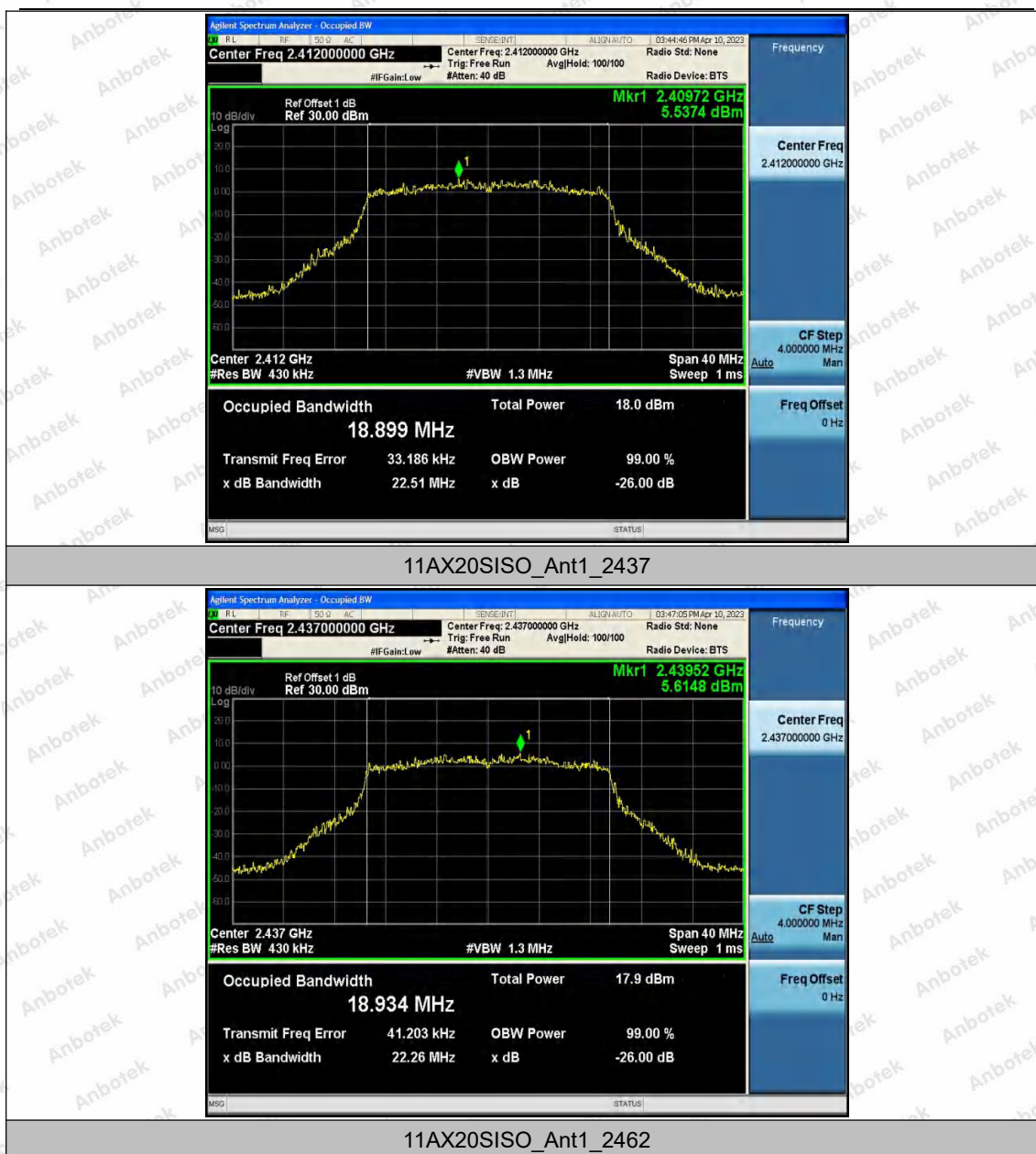
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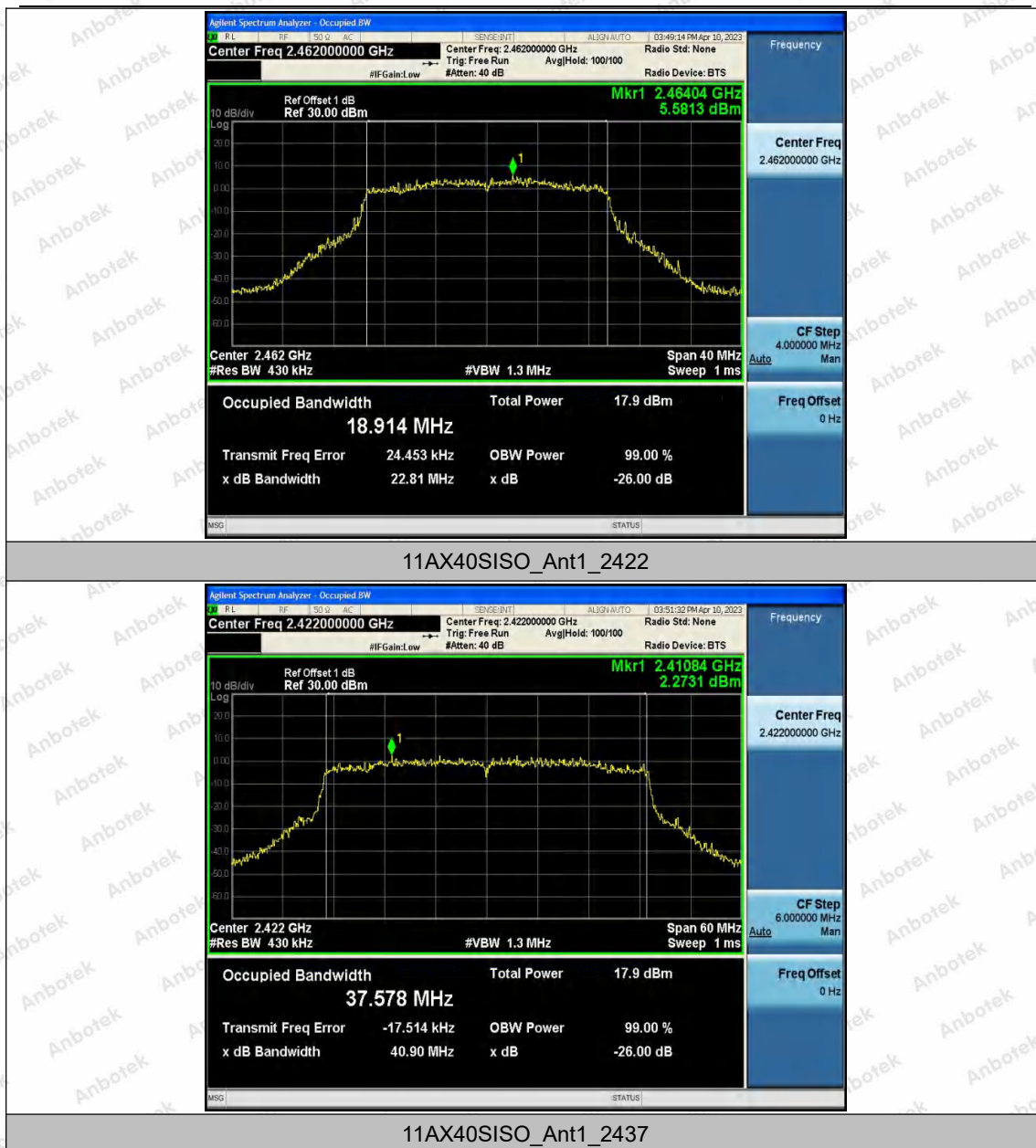
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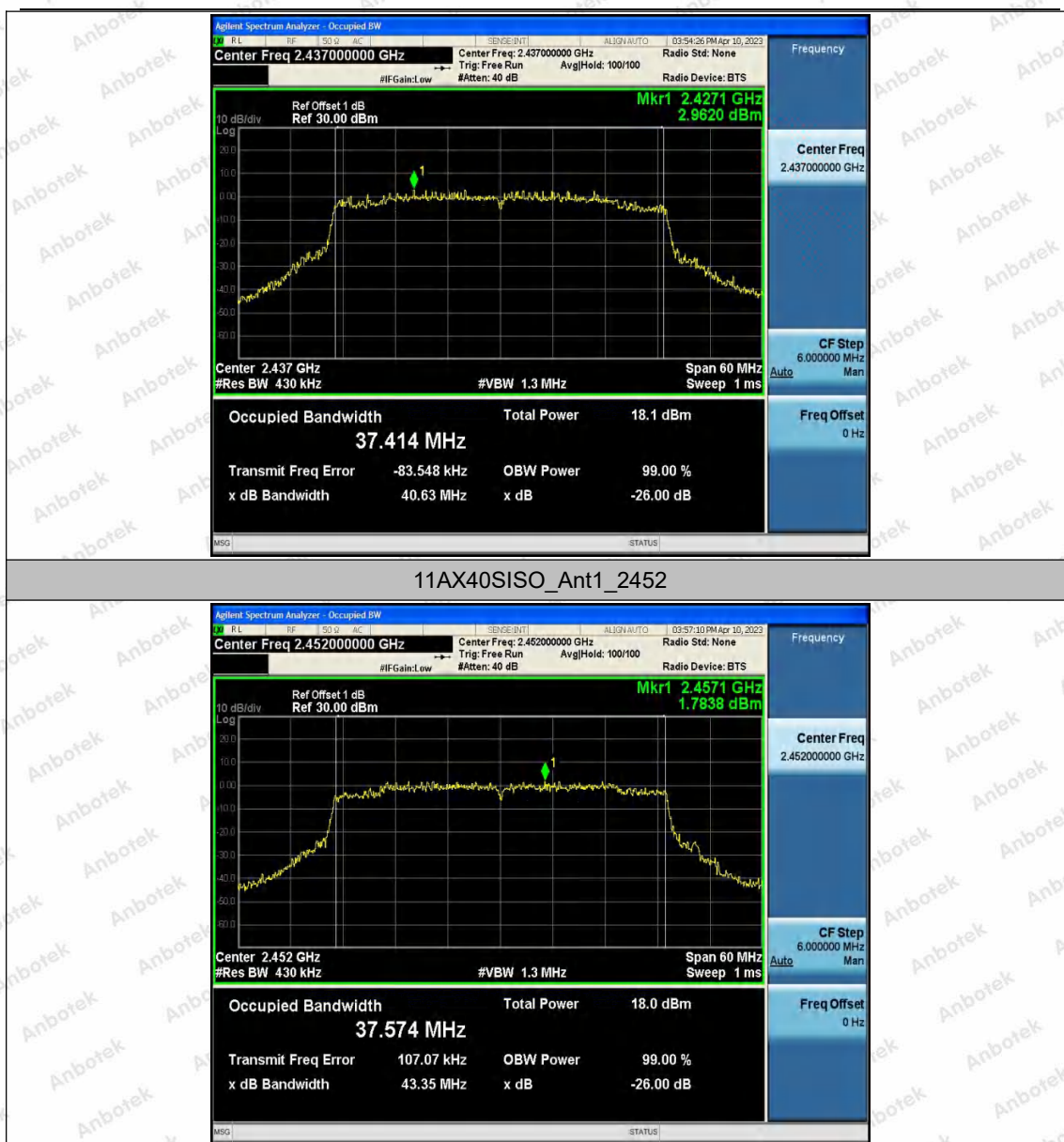
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.61	≤30.00
		2437	15.41	≤30.00
		2462	15.60	≤30.00
11G	Ant1	2412	19.57	≤30.00
		2437	19.42	≤30.00
		2462	19.48	≤30.00
11N20SISO	Ant1	2412	18.17	≤30.00
		2437	18.10	≤30.00
		2462	18.25	≤30.00
11N40SISO	Ant1	2422	16.30	≤30.00
		2437	16.50	≤30.00
		2452	16.11	≤30.00
11AX20SISO	Ant1	2412	18.56	≤30.00
		2437	18.49	≤30.00
		2462	18.56	≤30.00
11AX40SISO	Ant1	2422	16.37	≤30.00
		2437	16.70	≤30.00
		2452	16.44	≤30.00



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.66	≤8.00	PASS
		2437	-10.07	≤8.00	PASS
		2462	-10.23	≤8.00	PASS
11G	Ant1	2412	-11.68	≤8.00	PASS
		2437	-12.55	≤8.00	PASS
		2462	-12.34	≤8.00	PASS
11N20SISO	Ant1	2412	-12.16	≤8.00	PASS
		2437	-13.58	≤8.00	PASS
		2462	-12.42	≤8.00	PASS
11N40SISO	Ant1	2422	-16.01	≤8.00	PASS
		2437	-15.99	≤8.00	PASS
		2452	-16.52	≤8.00	PASS
11AX20SISO	Ant1	2412	-15.1	≤8.00	PASS
		2437	-15.15	≤8.00	PASS
		2462	-13.24	≤8.00	PASS
11AX40SISO	Ant1	2422	-18.05	≤8.00	PASS
		2437	-17.47	≤8.00	PASS
		2452	-16.98	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

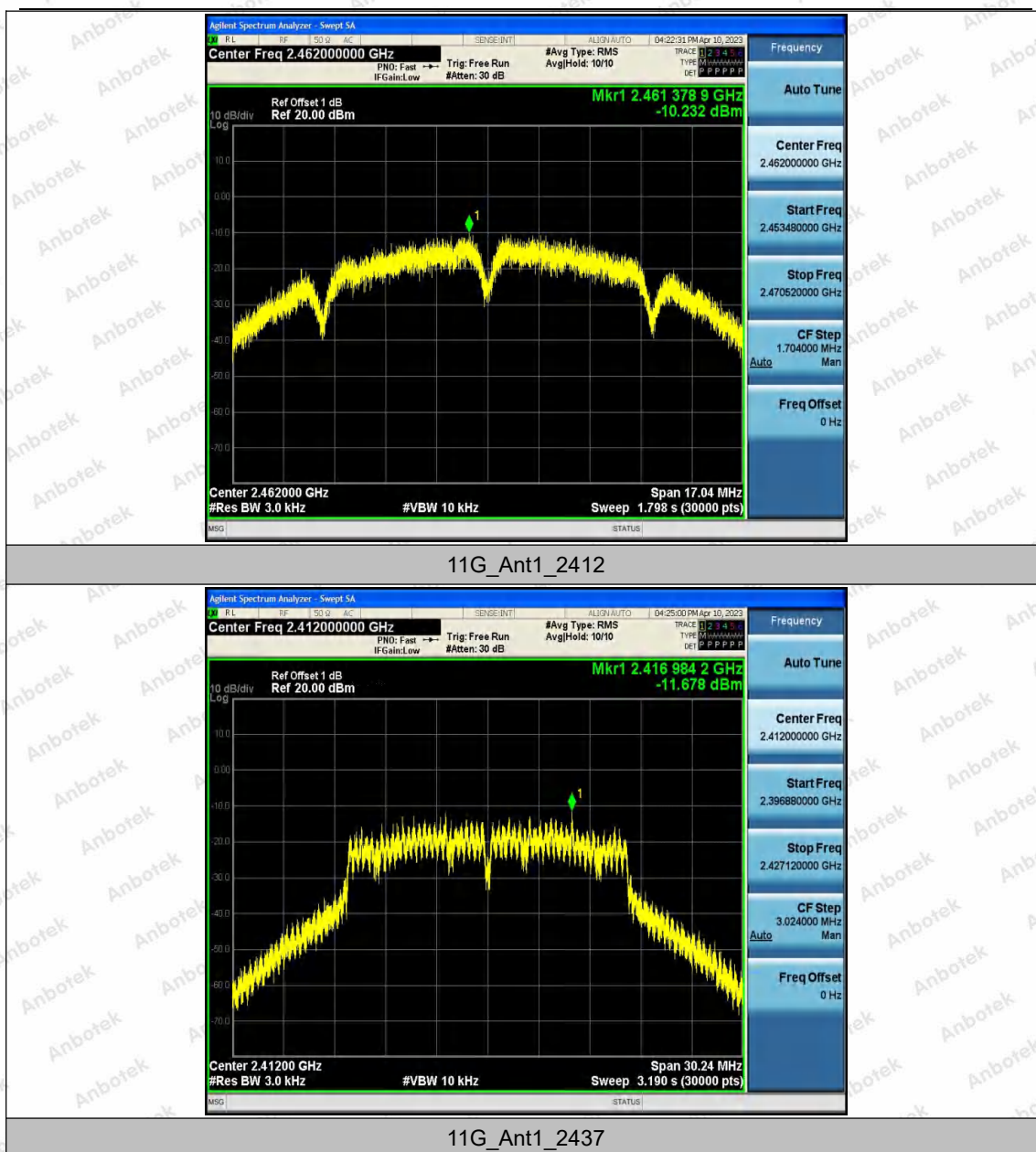
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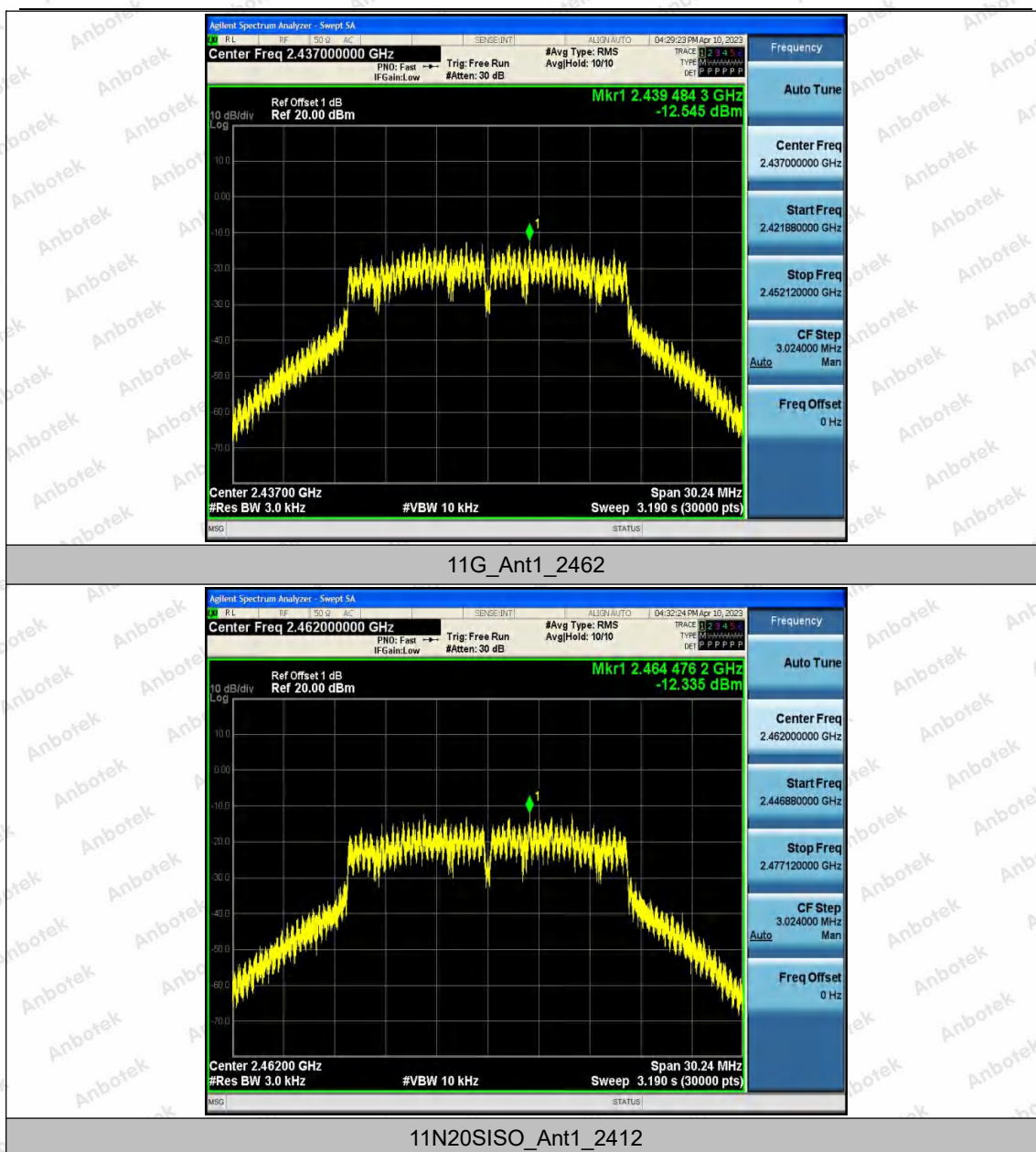
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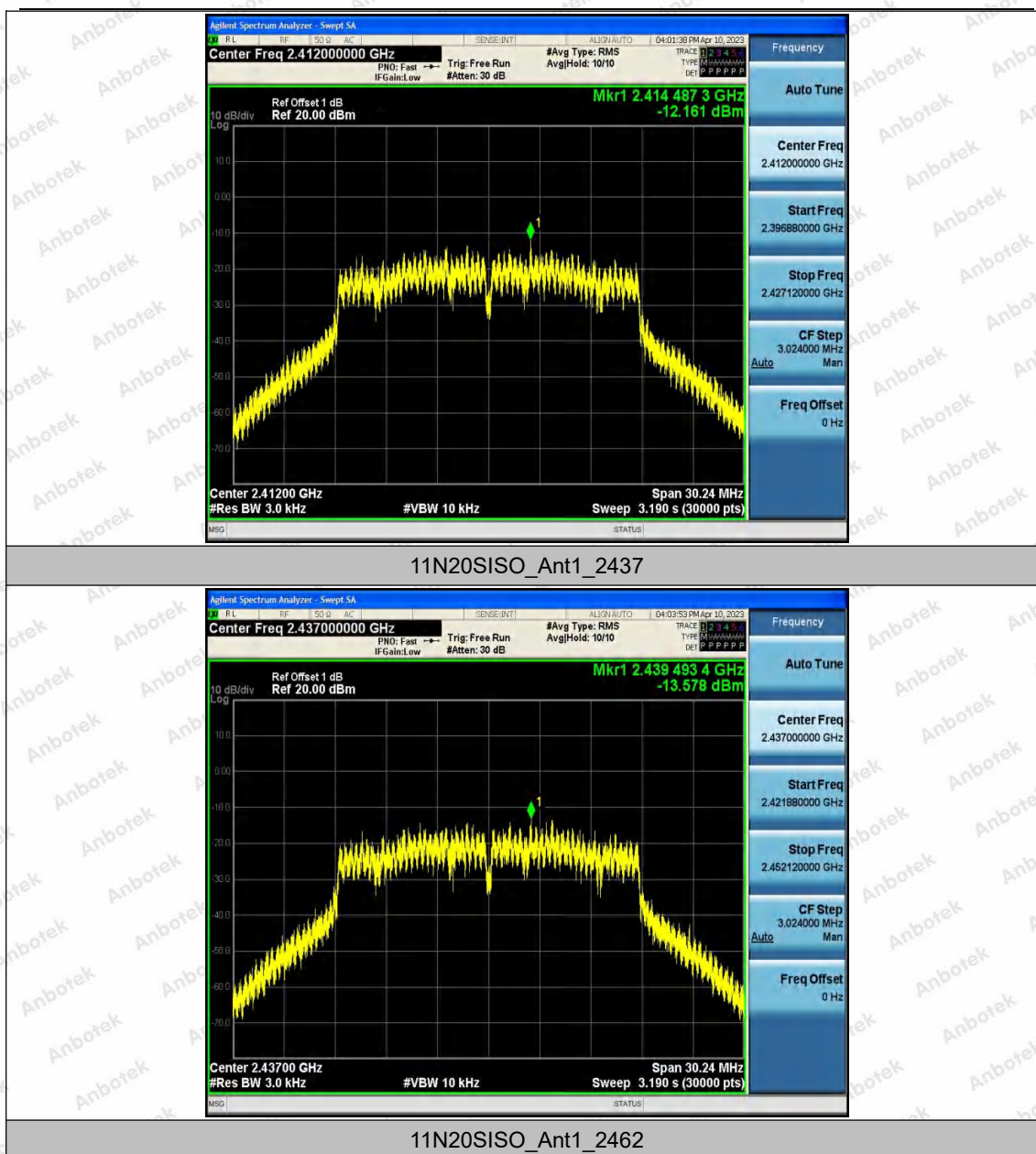
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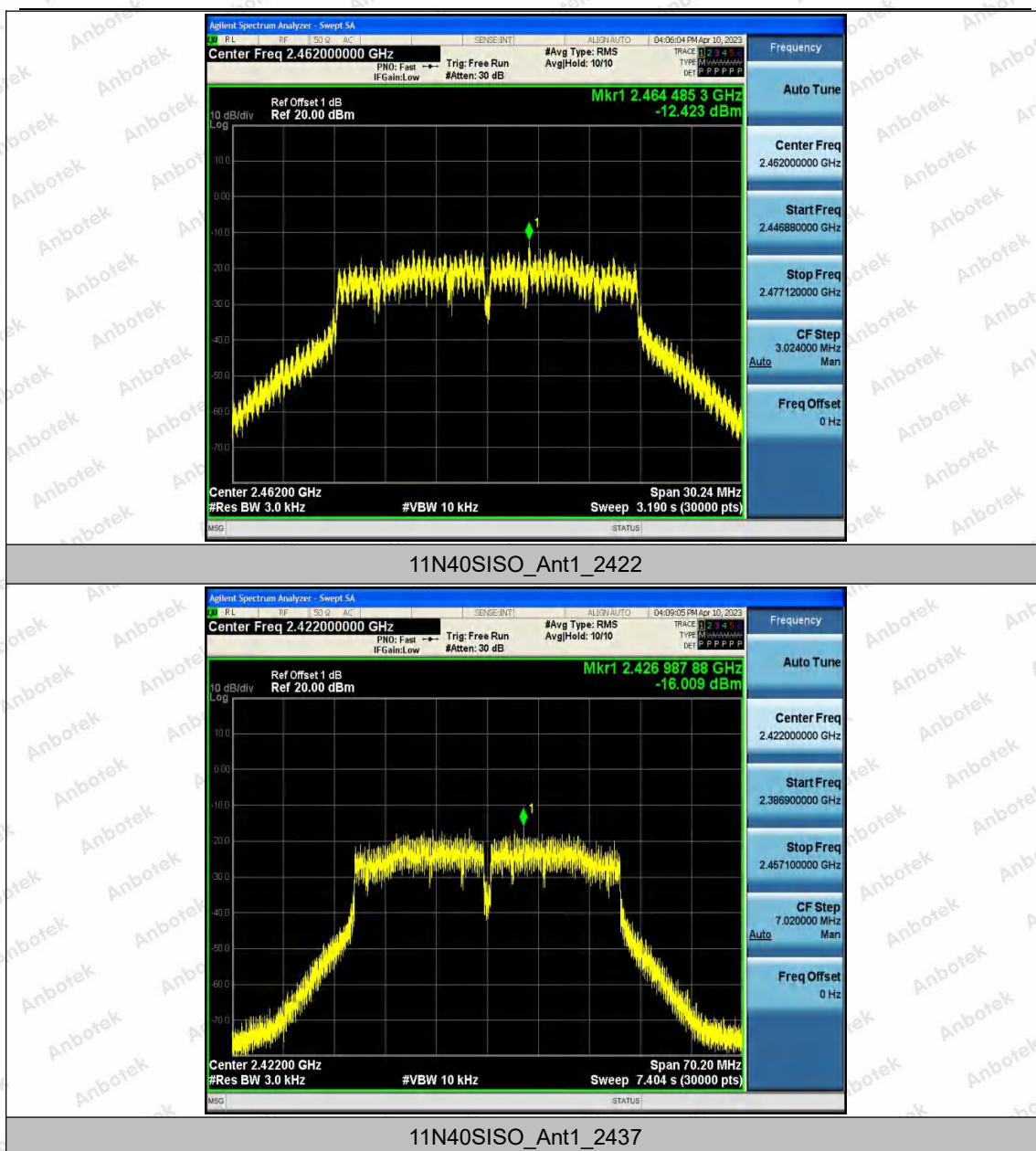
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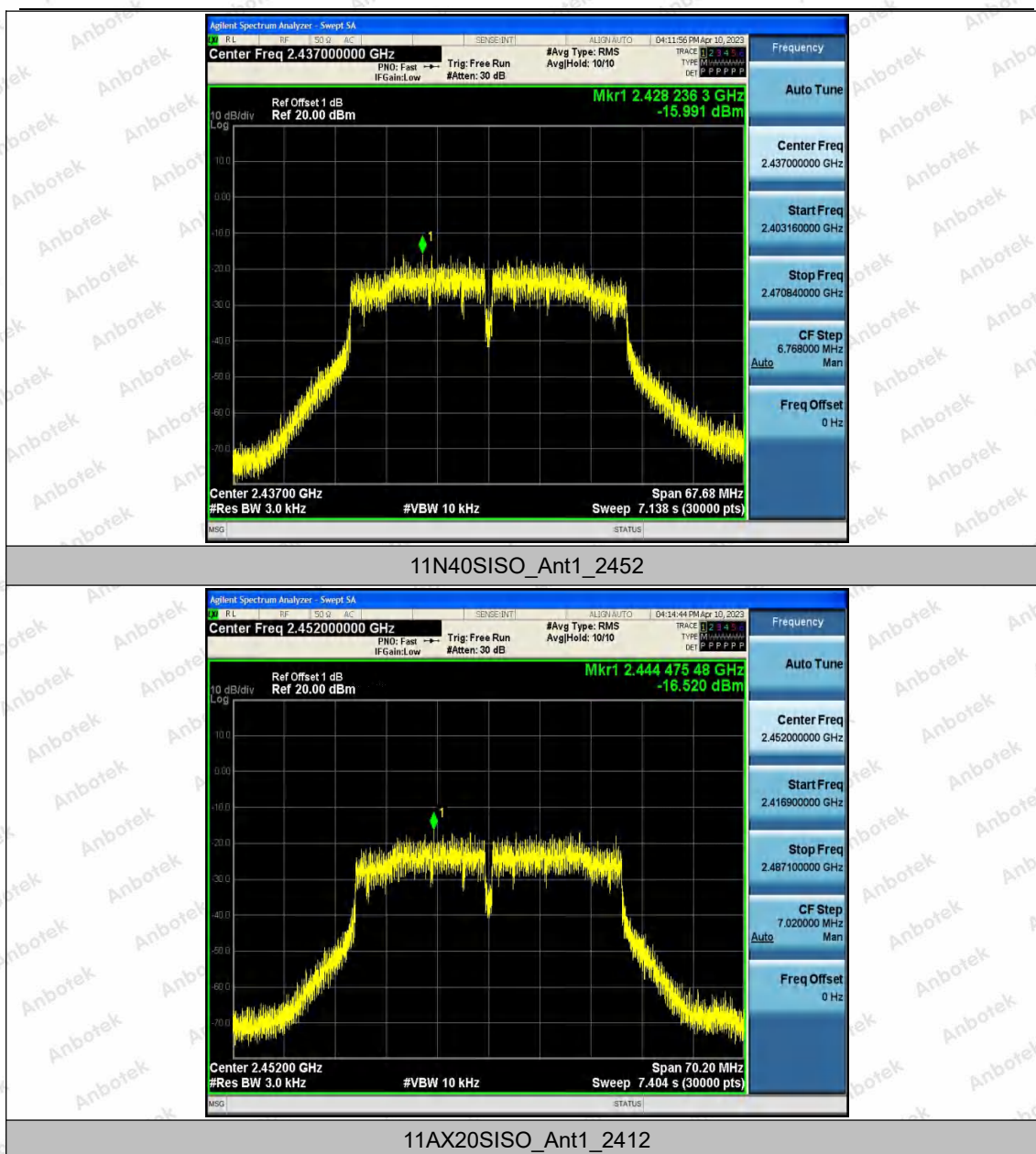
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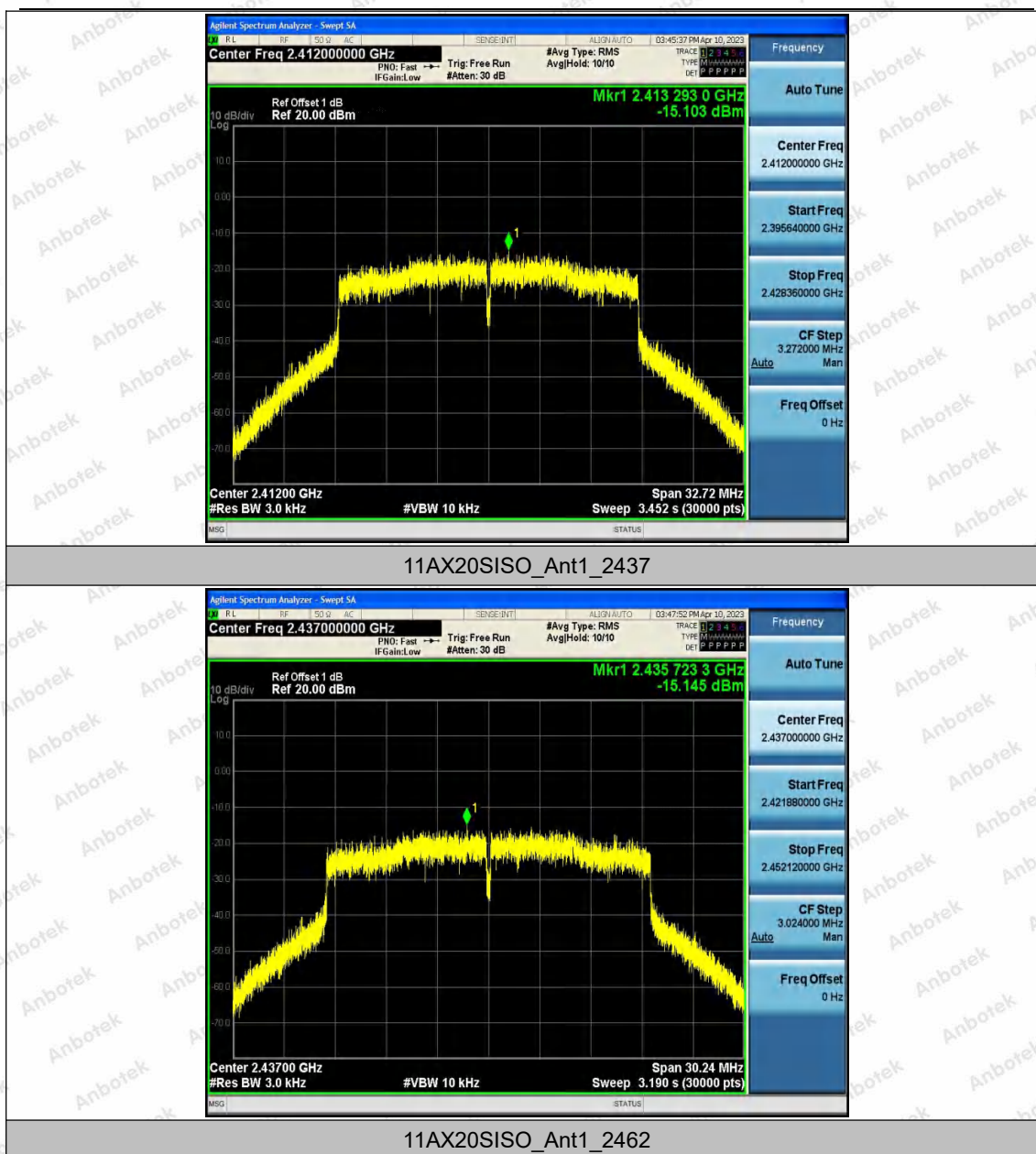
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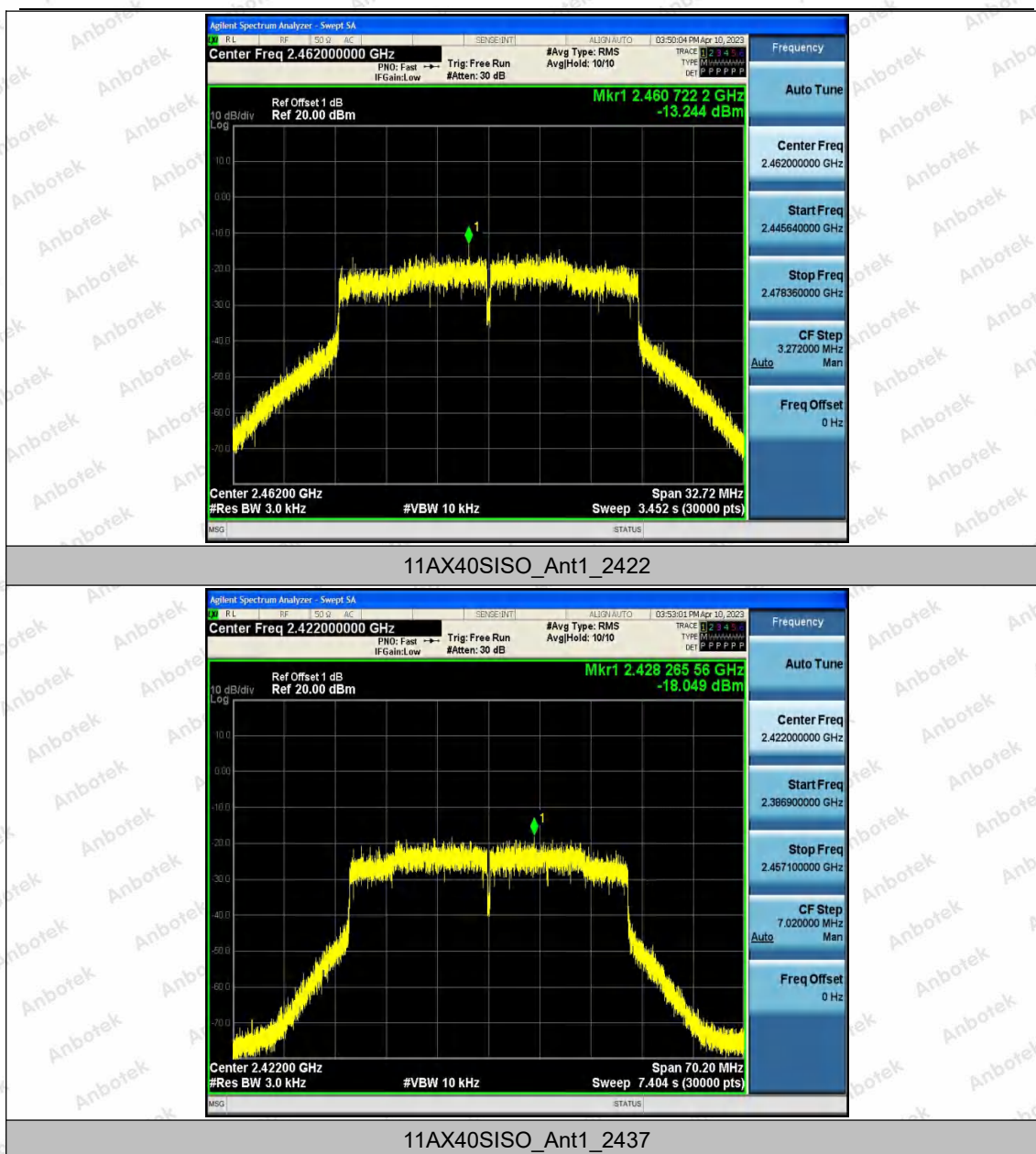
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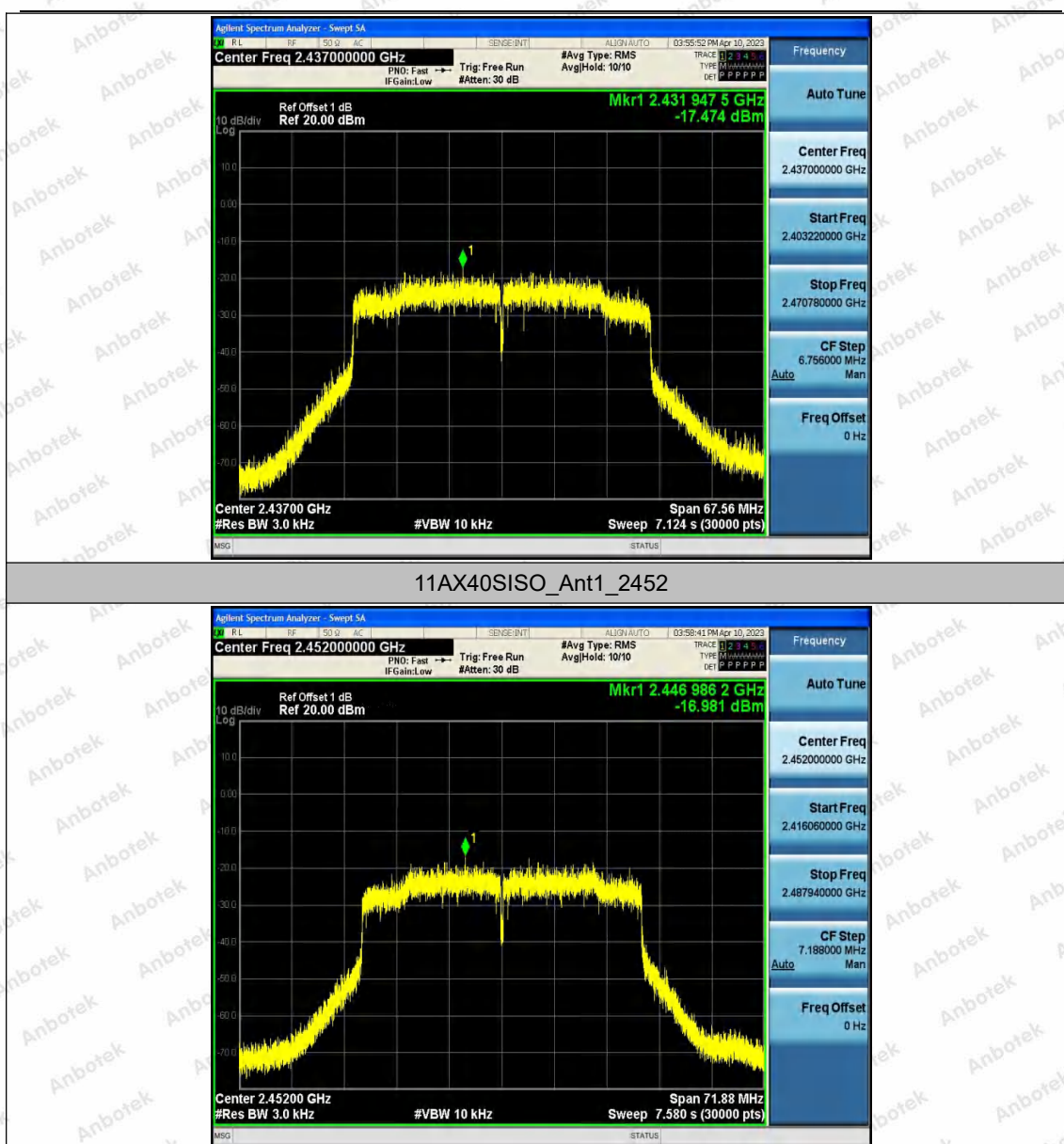
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Appendix E: Band edge measurements

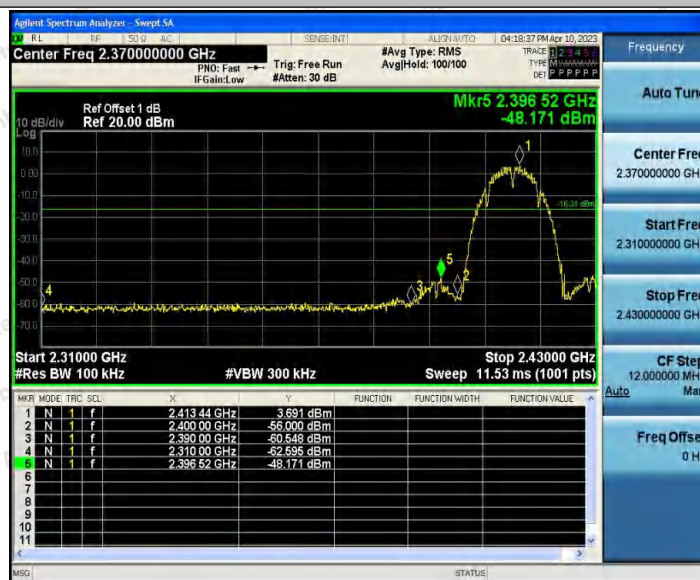
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.69	-48.17	≤-16.31	PASS
		High	2462	4.01	-56.6	≤-15.99	PASS
11G	Ant1	Low	2412	2.91	-27.51	≤-17.09	PASS
		High	2462	2.98	-52.76	≤-17.02	PASS
11N20SISO	Ant1	Low	2412	1.48	-29.33	≤-18.52	PASS
		High	2462	1.56	-55.23	≤-18.44	PASS
11N40SISO	Ant1	Low	2422	-1.78	-31.57	≤-21.78	PASS
		High	2452	-1.74	-45.58	≤-21.74	PASS
11AX20SISO	Ant1	Low	2412	1.34	-30.24	≤-18.66	PASS
		High	2462	1.44	-54.81	≤-18.56	PASS
11AX40SISO	Ant1	Low	2422	-2.12	-32.75	≤-22.12	PASS
		High	2452	-1.97	-46.31	≤-21.97	PASS

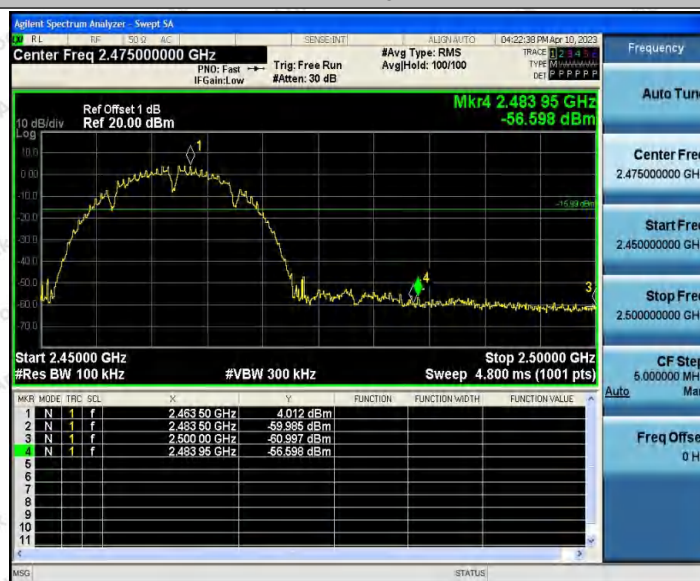


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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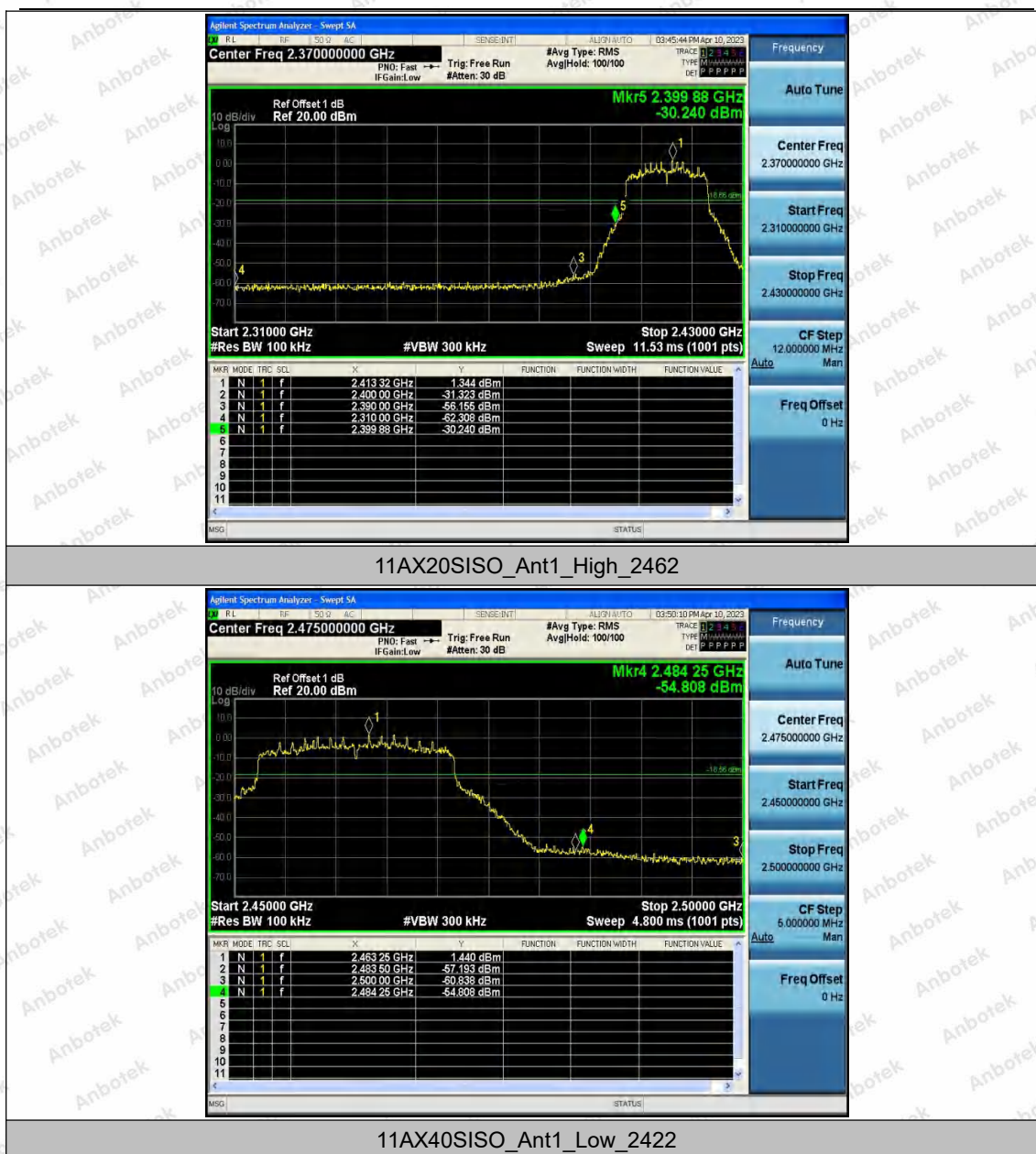
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-69.46	≤-16.63	PASS
			1000~26500	3.37	-54.2	≤-16.63	PASS
		2437	Reference	2.27	2.27	---	PASS
			30~1000	2.27	-62.13	≤-17.73	PASS
			1000~26500	2.27	-53.82	≤-17.73	PASS
		2462	Reference	3.46	3.46	---	PASS
			30~1000	3.46	-68.37	≤-16.54	PASS
			1000~26500	3.46	-54.88	≤-16.54	PASS
11G	Ant1	2412	Reference	2.90	2.90	---	PASS
			30~1000	2.90	-69.64	≤-17.1	PASS
			1000~26500	2.90	-54.58	≤-17.1	PASS
		2437	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-69.31	≤-18.07	PASS
			1000~26500	1.93	-54.32	≤-18.07	PASS
		2462	Reference	1.78	1.78	---	PASS
			30~1000	1.78	-68.69	≤-18.22	PASS
			1000~26500	1.78	-54.15	≤-18.22	PASS
11N20SISO	Ant1	2412	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-58.76	≤-19.08	PASS
			1000~26500	0.92	-54.12	≤-19.08	PASS
		2437	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-67.53	≤-18.48	PASS
			1000~26500	1.52	-54.83	≤-18.48	PASS
		2462	Reference	1.55	1.55	---	PASS
			30~1000	1.55	-69.63	≤-18.45	PASS
			1000~26500	1.55	-54.83	≤-18.45	PASS
11N40SISO	Ant1	2422	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-60.41	≤-23.14	PASS
			1000~26500	-3.14	-54.47	≤-23.14	PASS
		2437	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-69.18	≤-22.03	PASS
			1000~26500	-2.03	-53.89	≤-22.03	PASS
		2452	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-69.08	≤-21.98	PASS

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11AX20SISO	Ant1	2412	1000~26500	-1.98	-54.21	≤ -21.98	PASS
			Reference	1.13	1.13	---	PASS
			30~1000	1.13	-69.82	≤ -18.87	PASS
		2437	1000~26500	1.13	-54.41	≤ -18.87	PASS
			Reference	0.96	0.96	---	PASS
			30~1000	0.96	-69.36	≤ -19.04	PASS
		2462	1000~26500	0.96	-55.08	≤ -19.04	PASS
			Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-69.22	≤ -22.42	PASS
11AX40SISO	Ant1	2422	1000~26500	-2.42	-54.12	≤ -22.42	PASS
			Reference	-2.22	-2.22	---	PASS
			30~1000	-2.22	-69.39	≤ -22.22	PASS
		2437	1000~26500	-2.22	-54.95	≤ -22.22	PASS
			Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-69.78	≤ -21.96	PASS
		2452	1000~26500	-1.96	-54.6	≤ -21.96	PASS
			Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-68.65	≤ -22.27	PASS
			1000~26500	-2.27	-53.65	≤ -22.27	PASS

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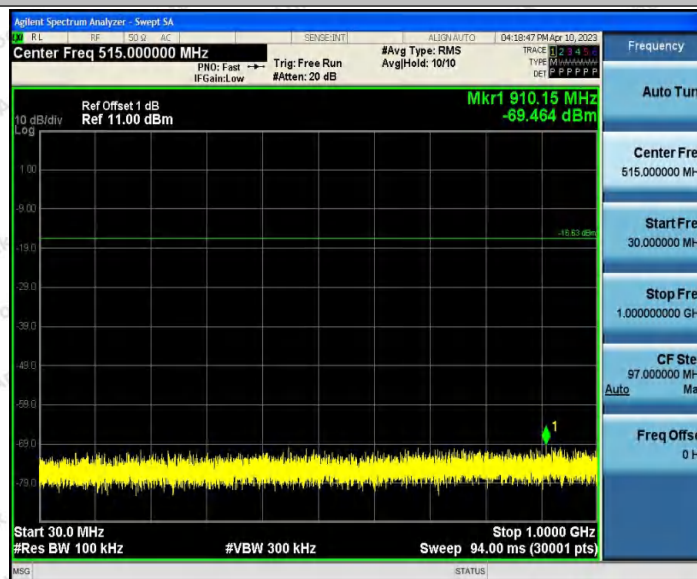


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

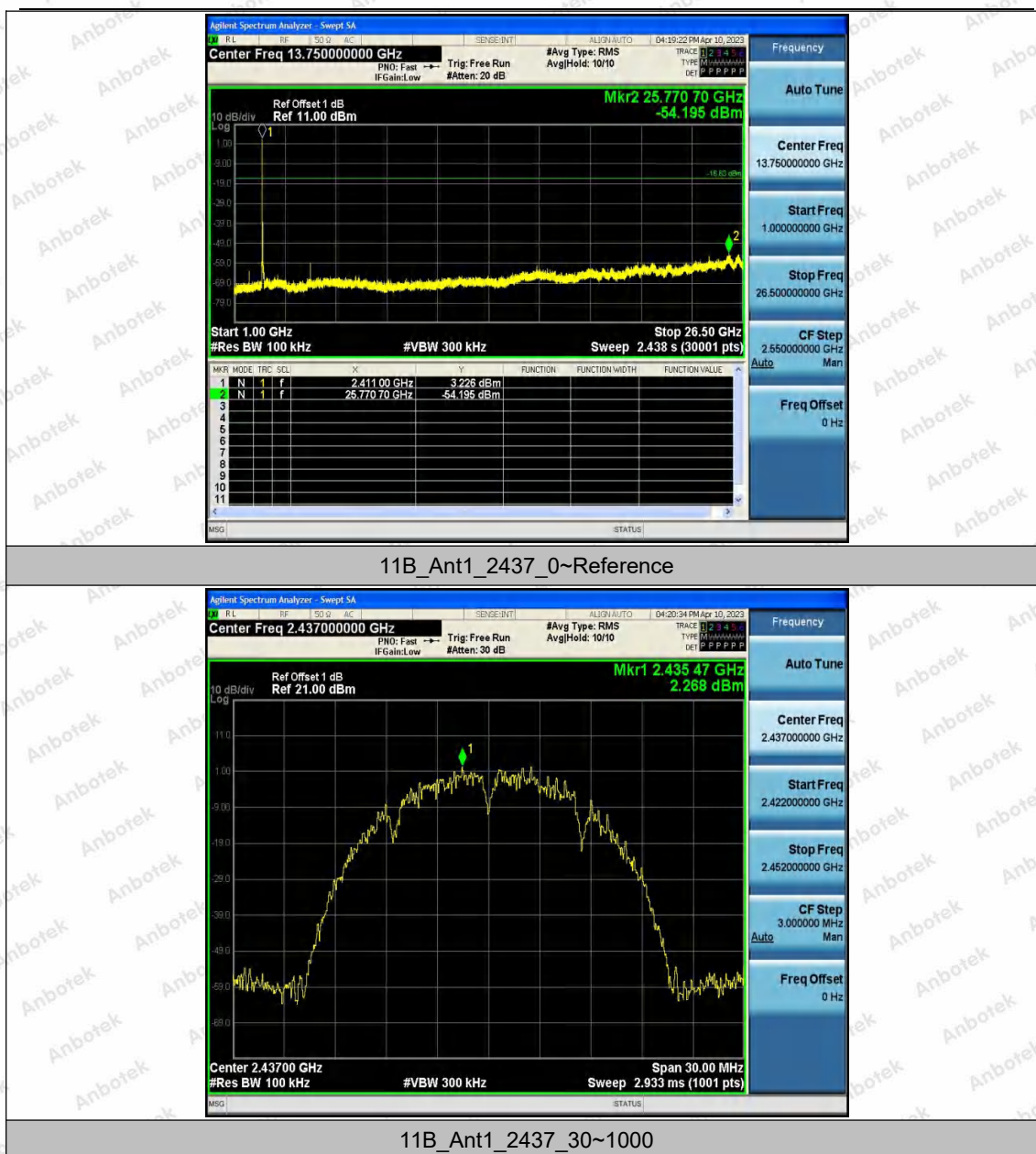
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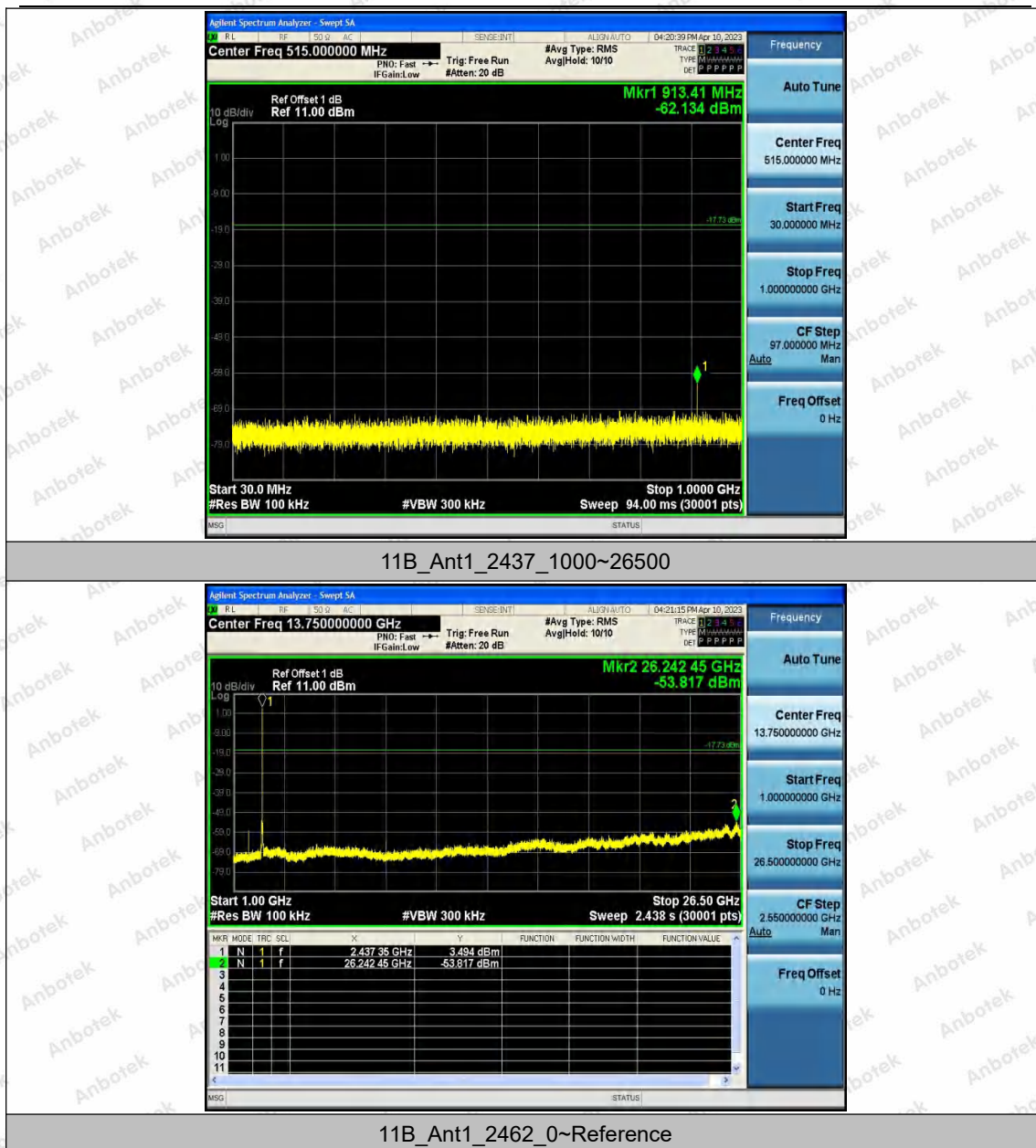
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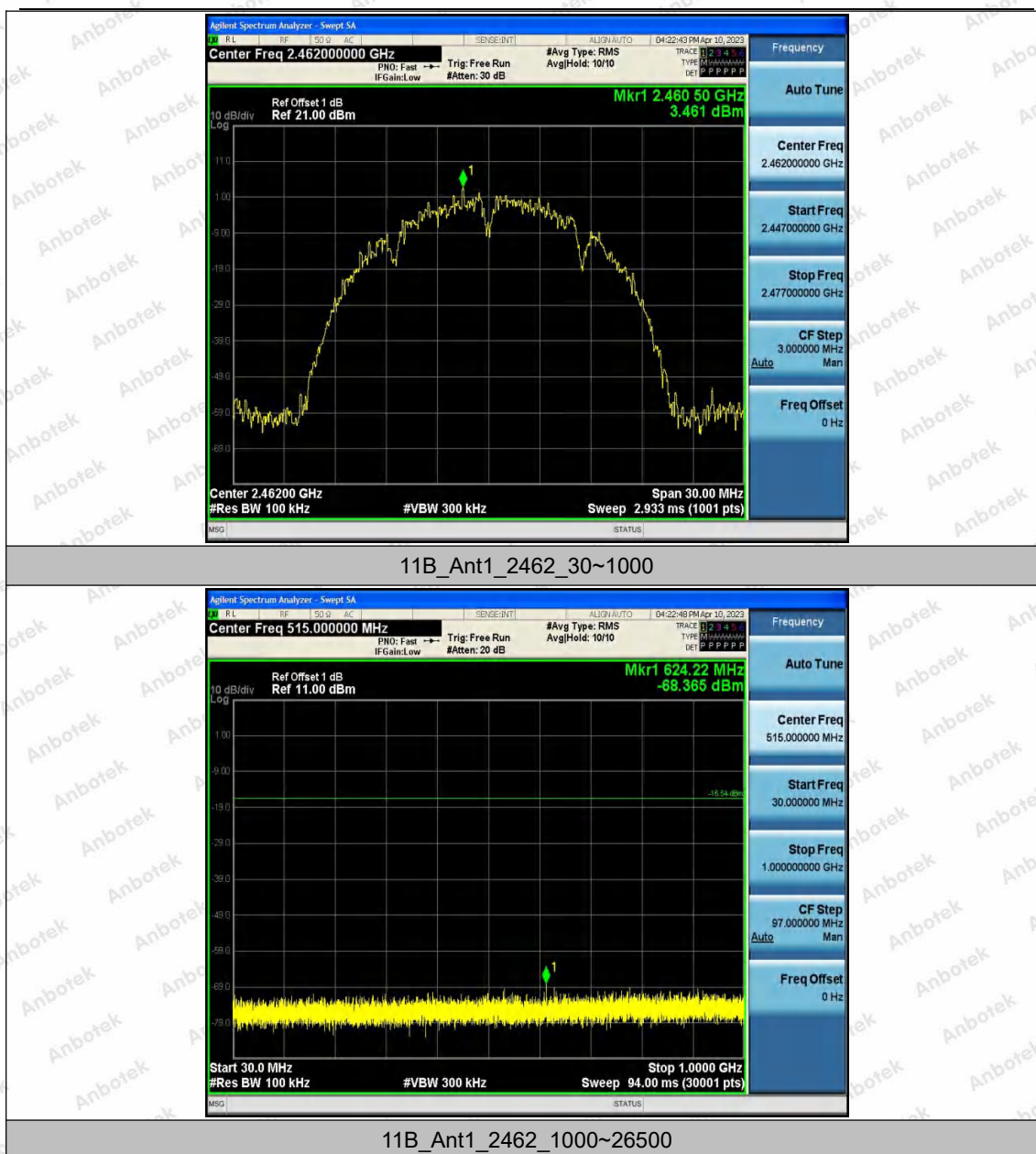
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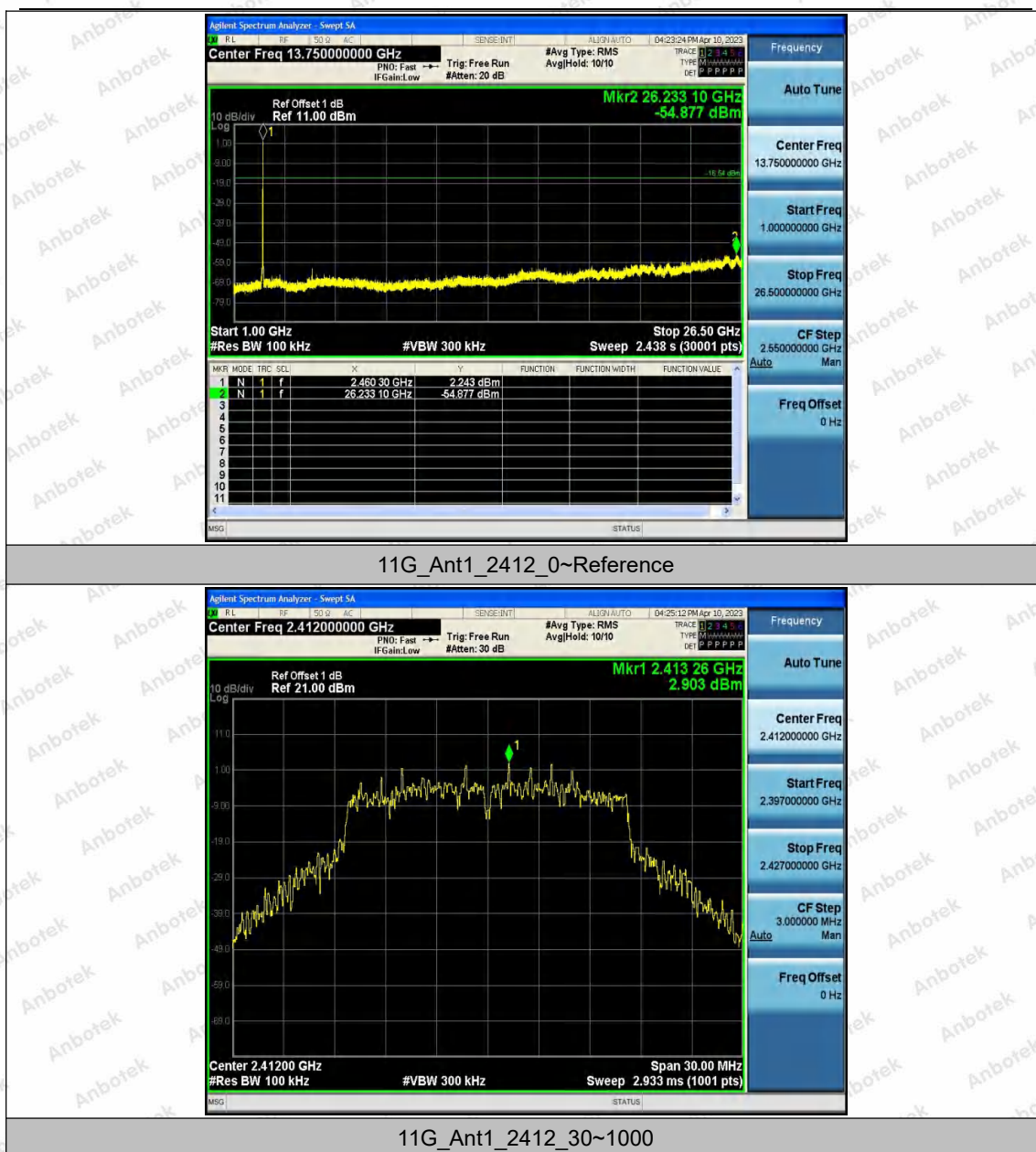
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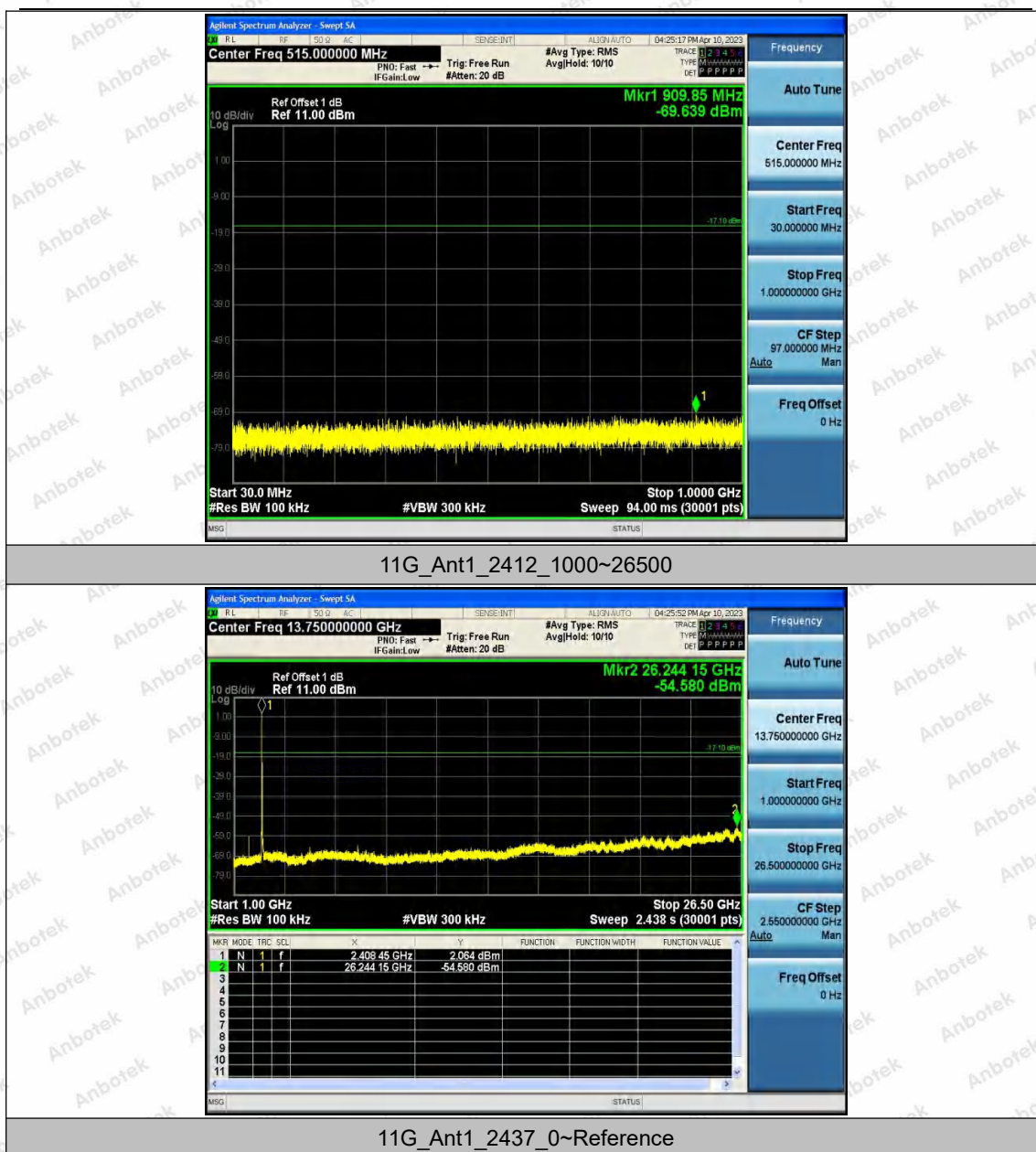
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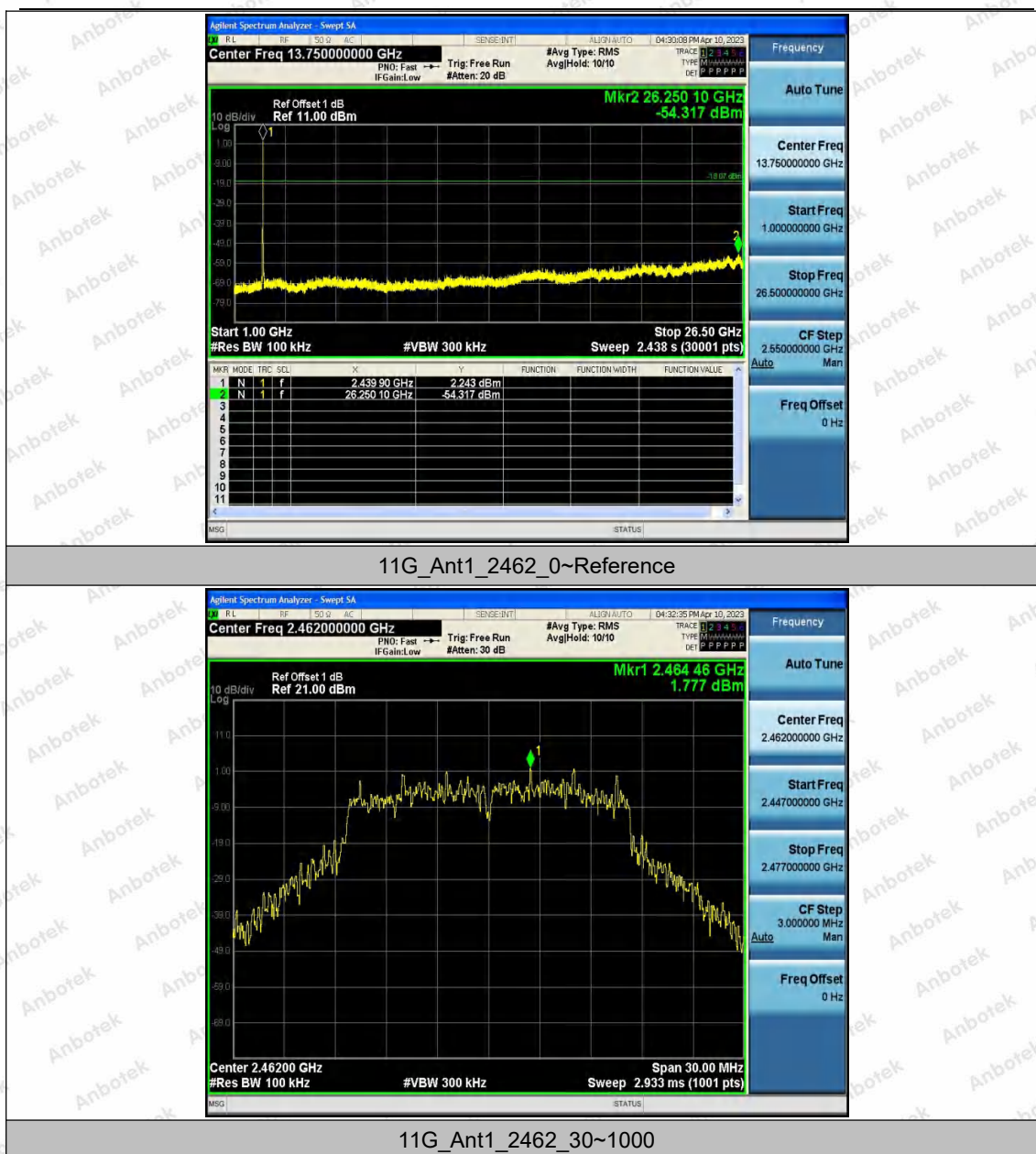
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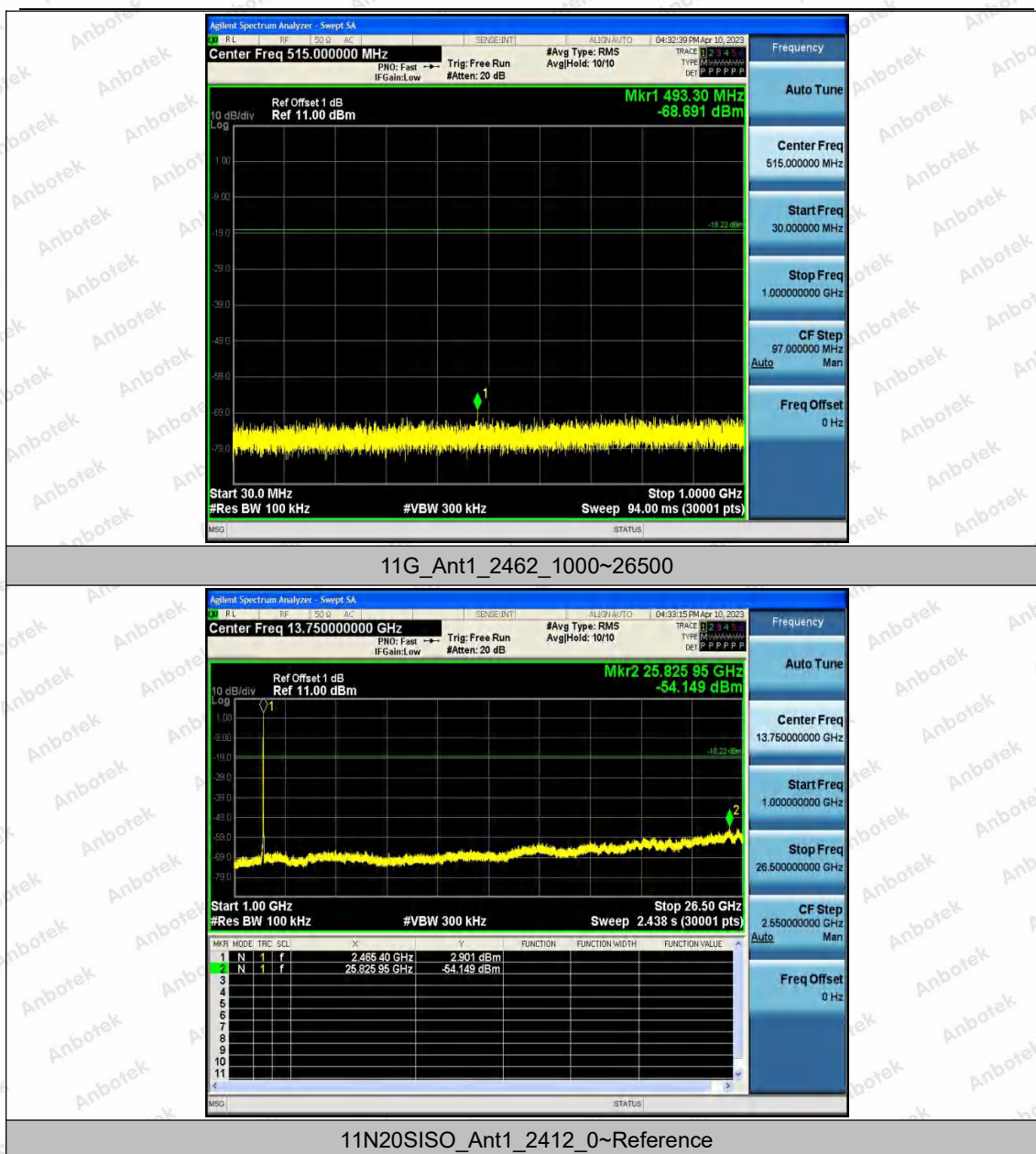
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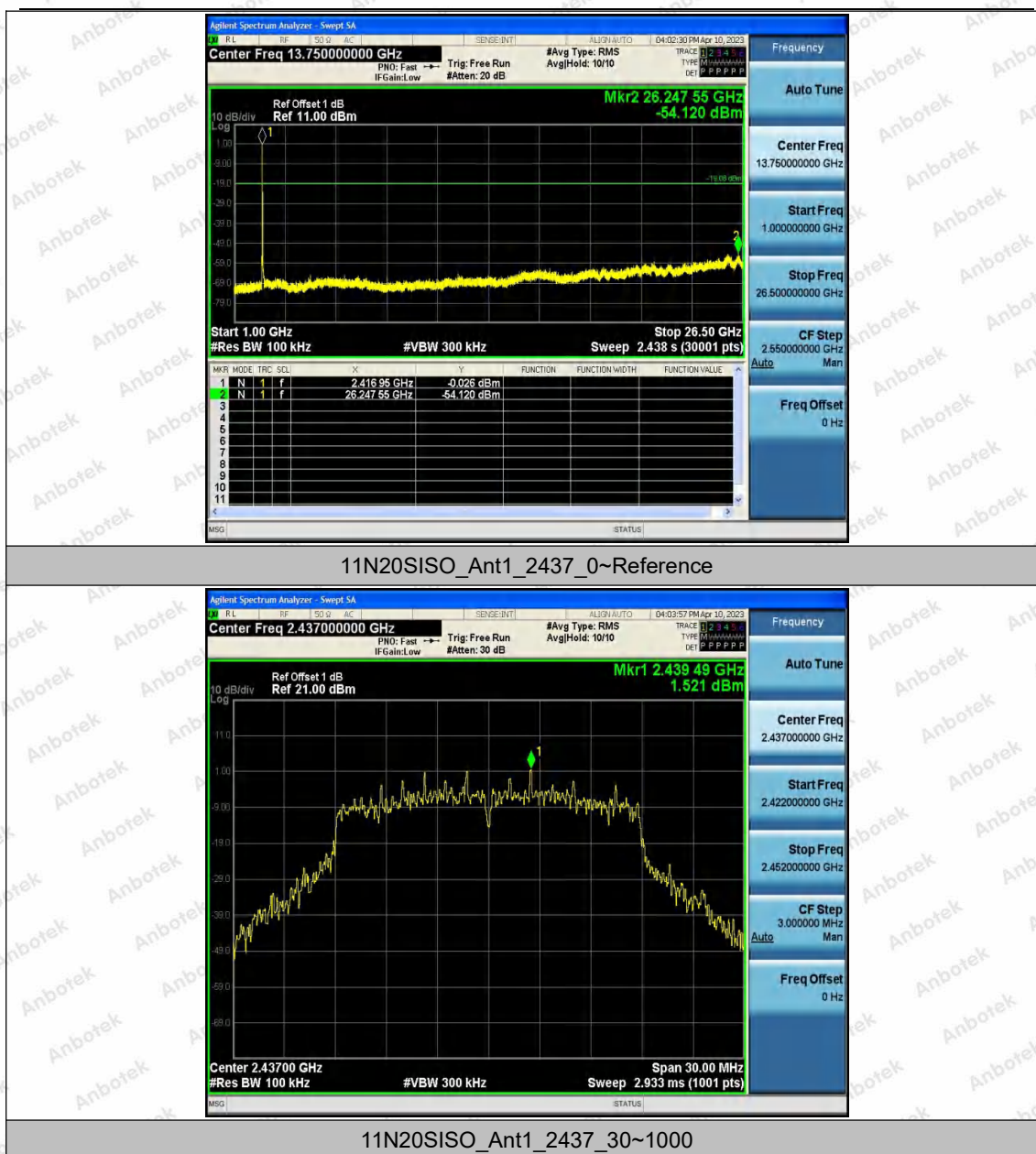
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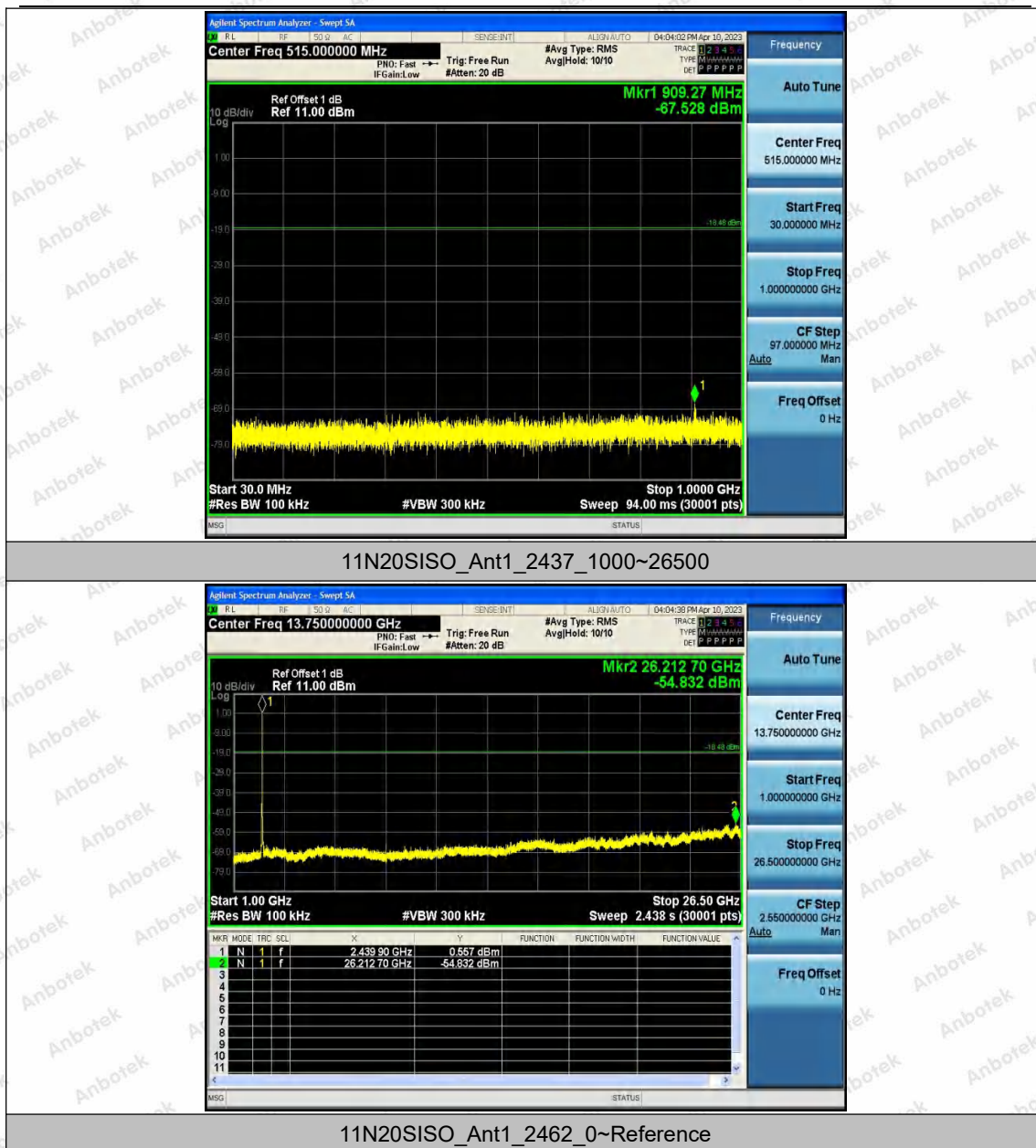
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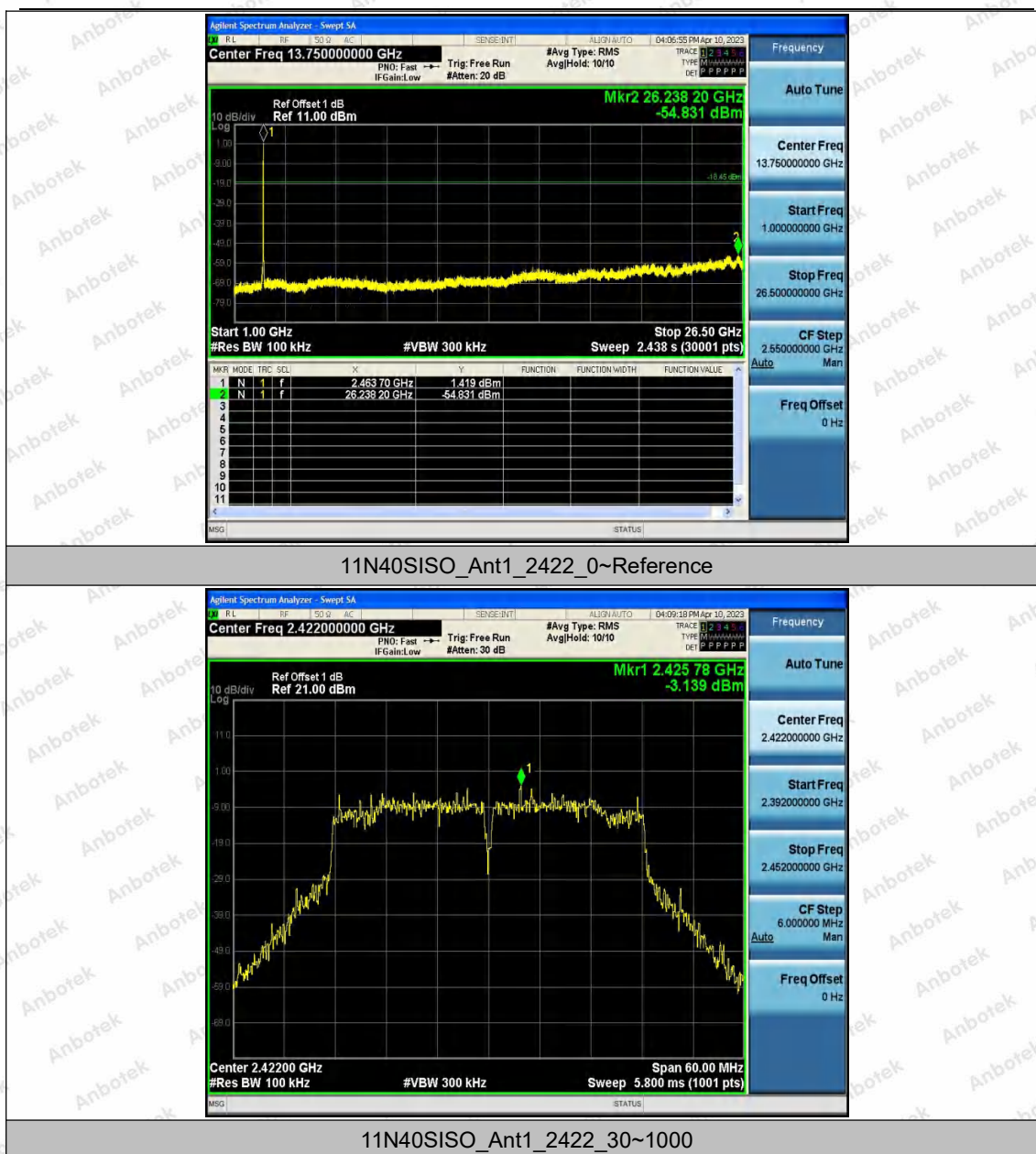
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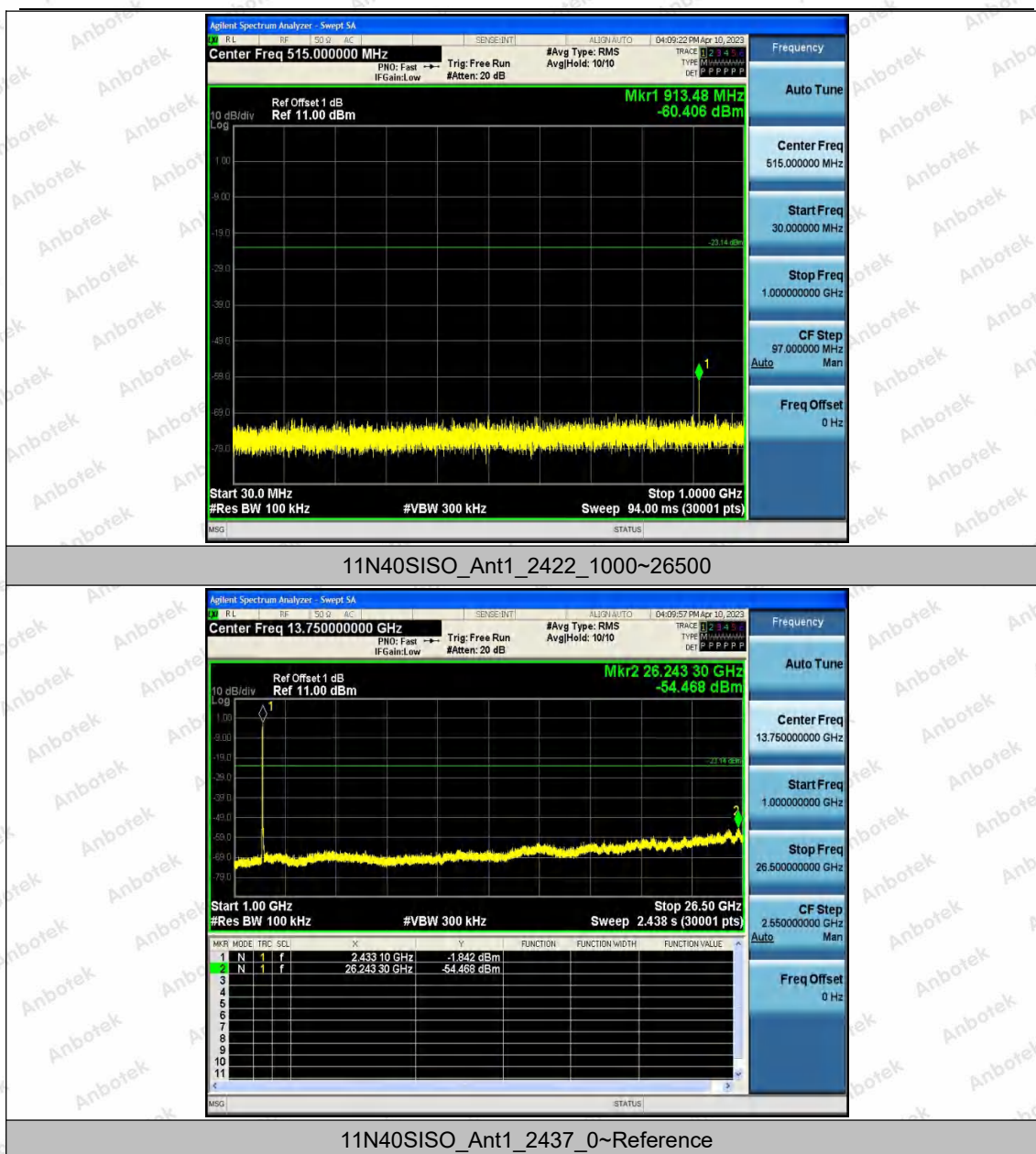


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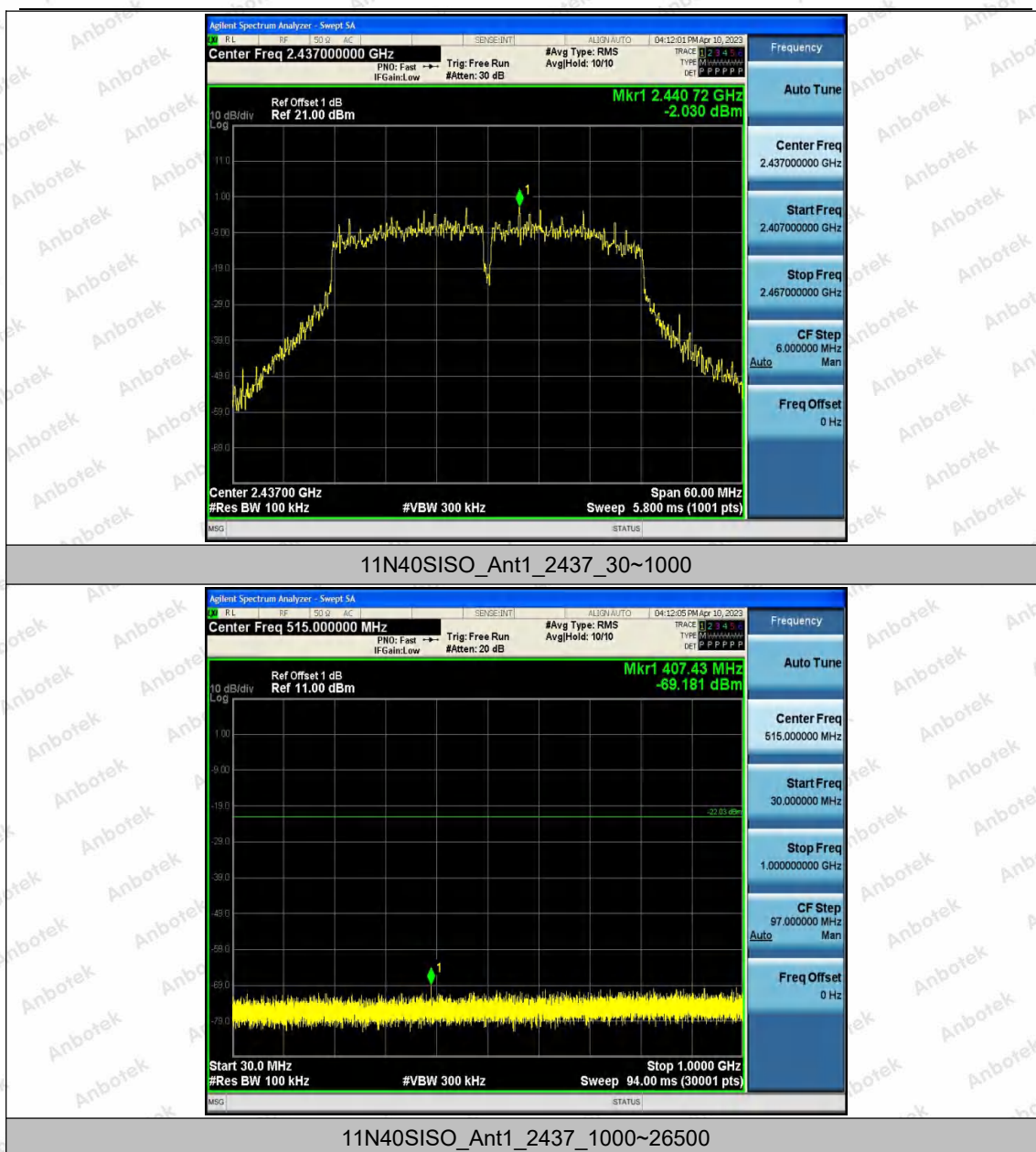
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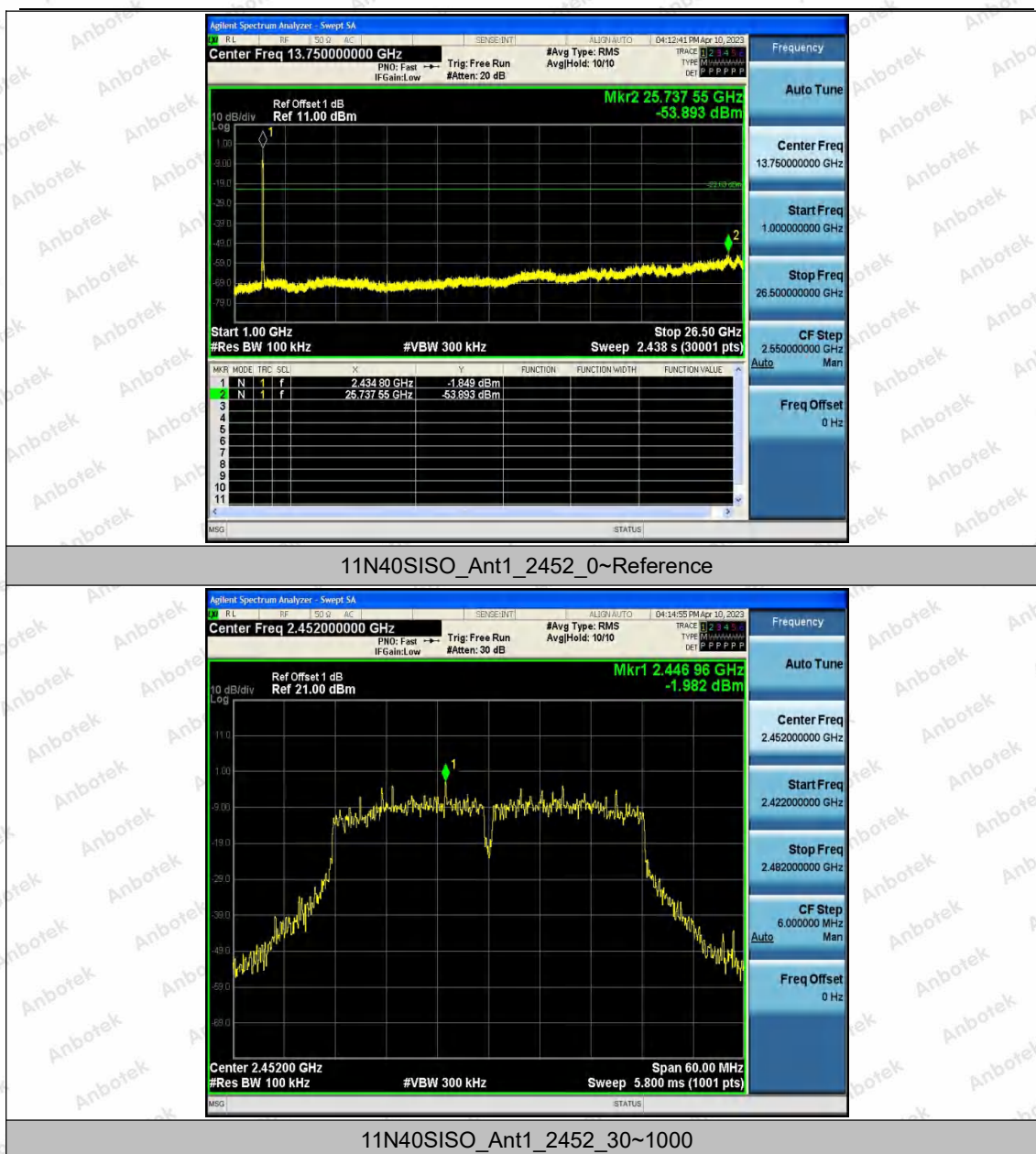
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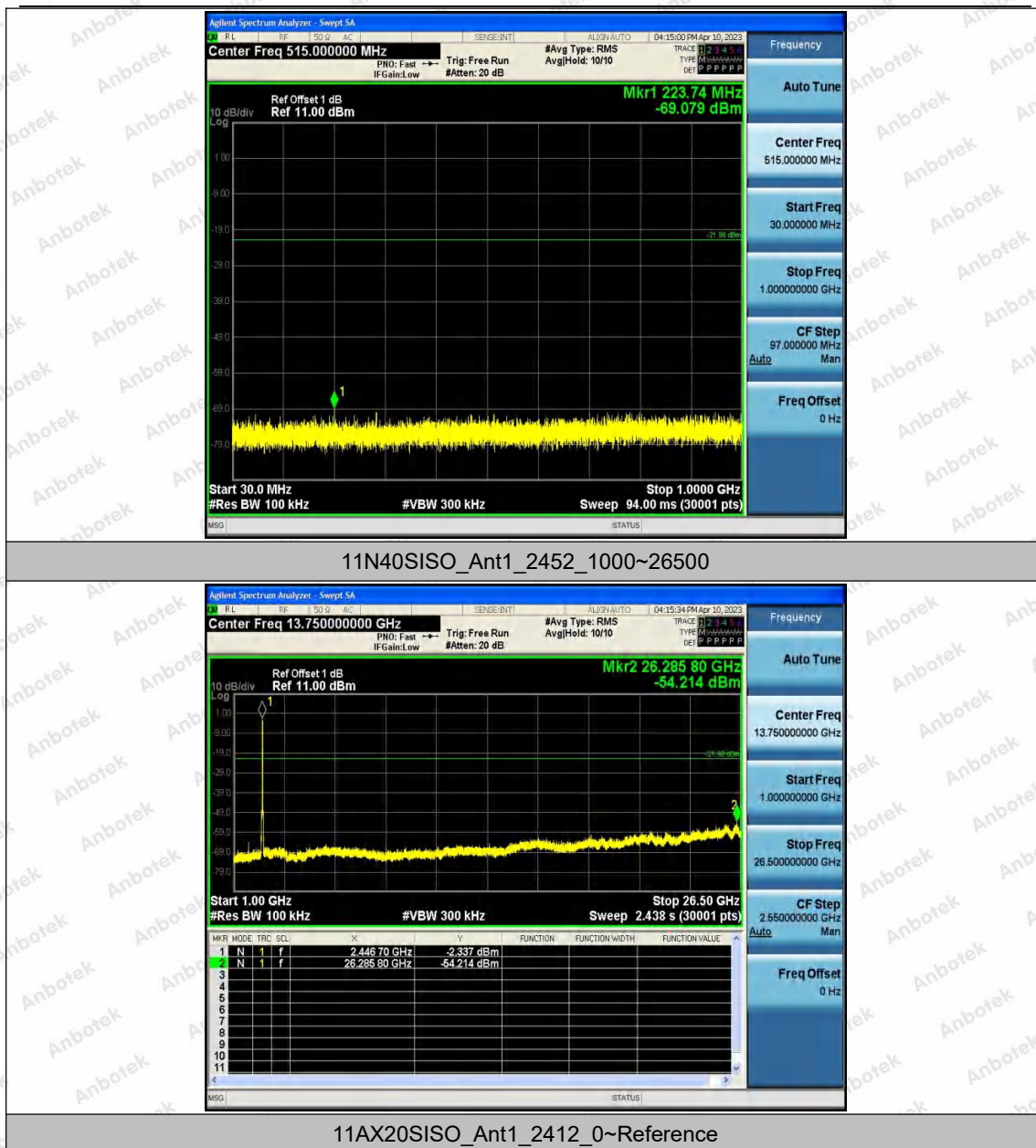
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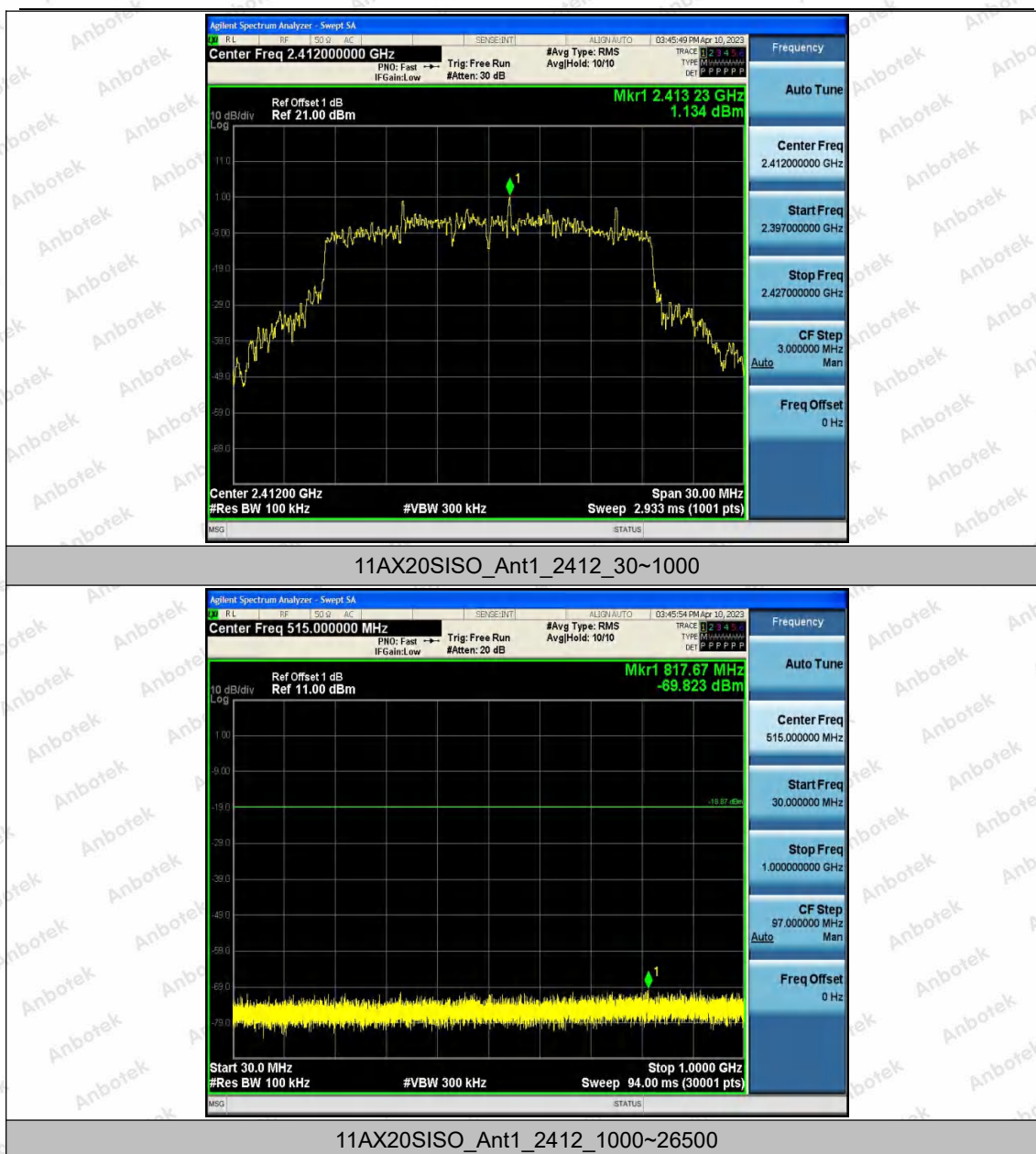
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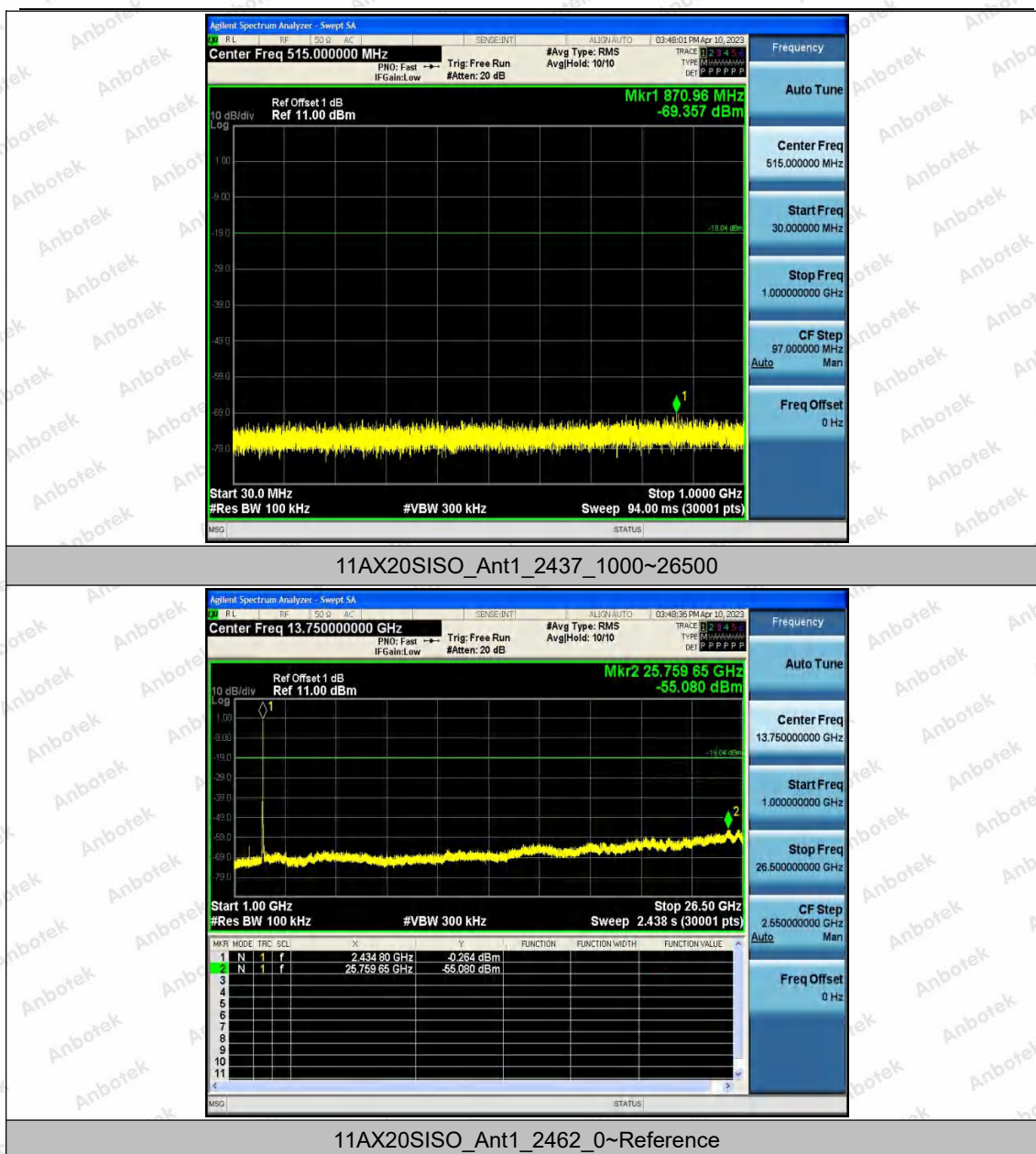


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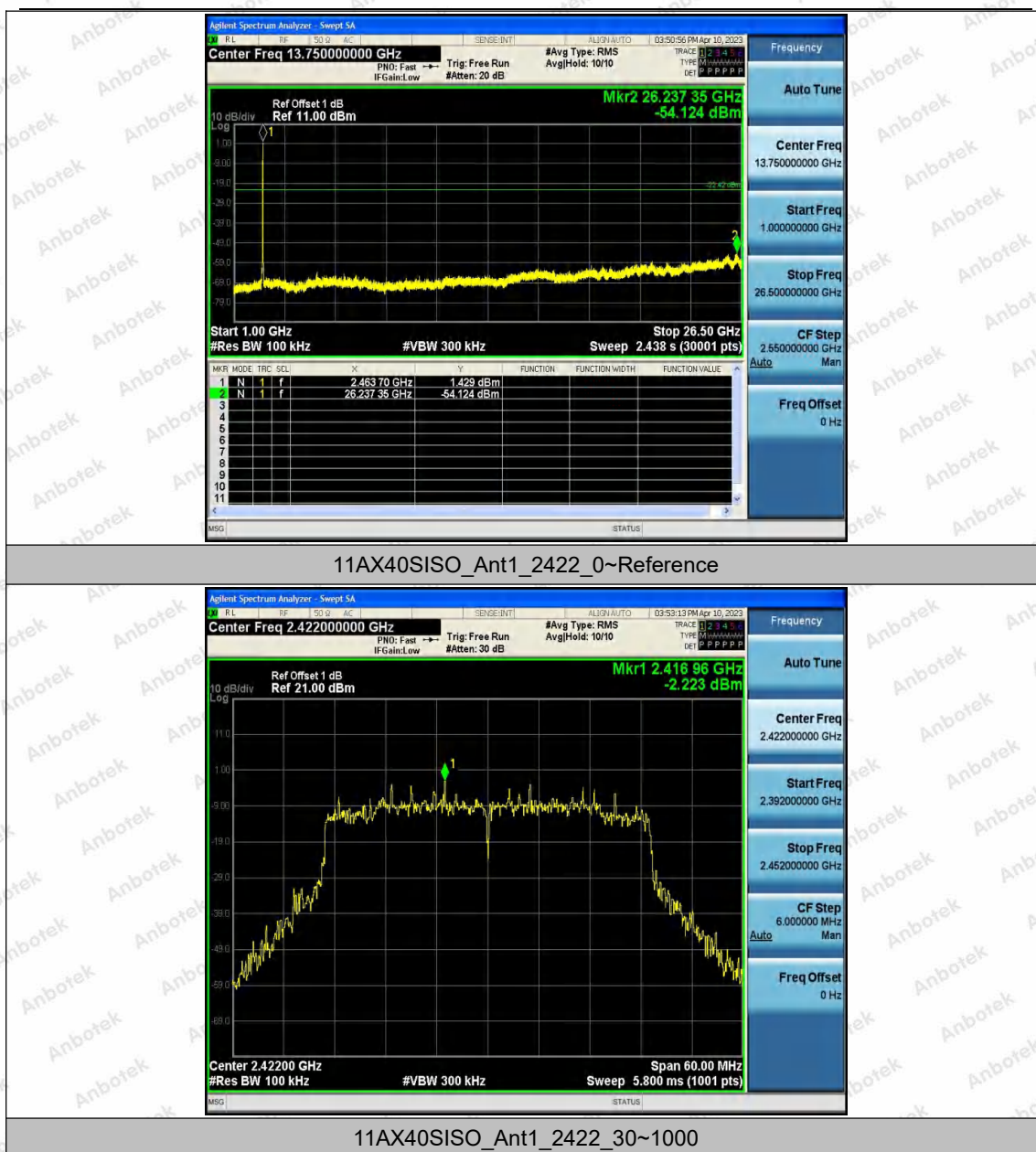
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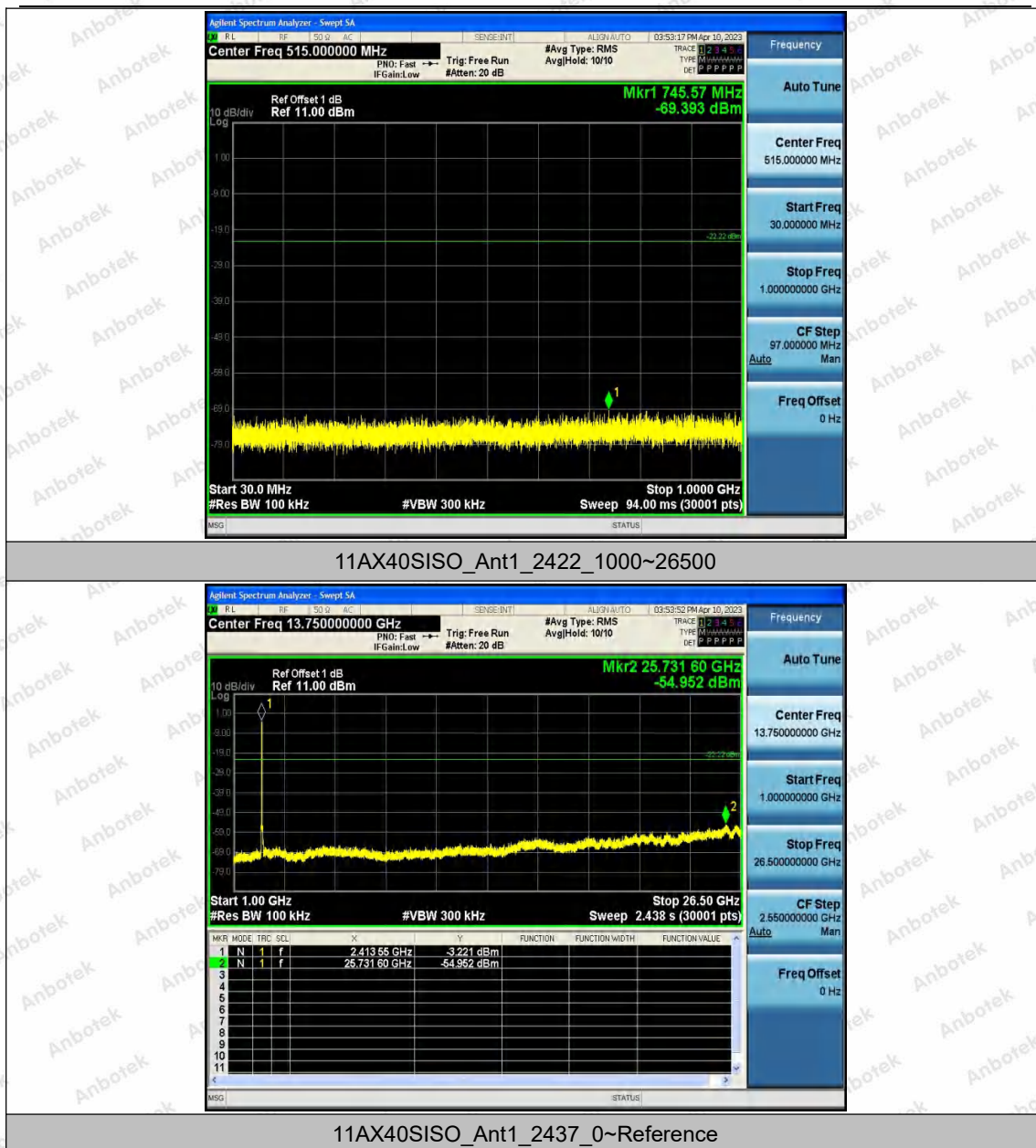
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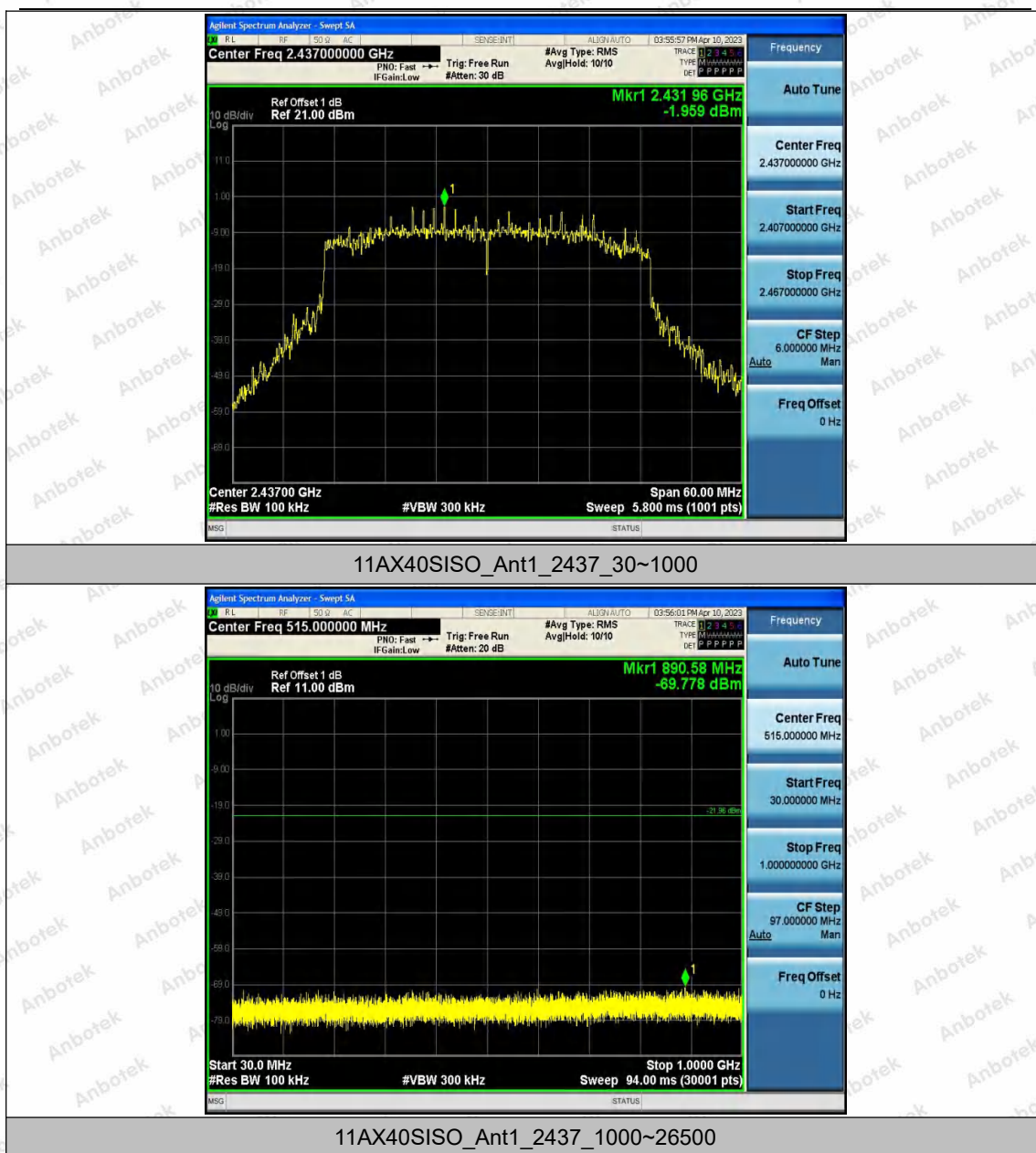
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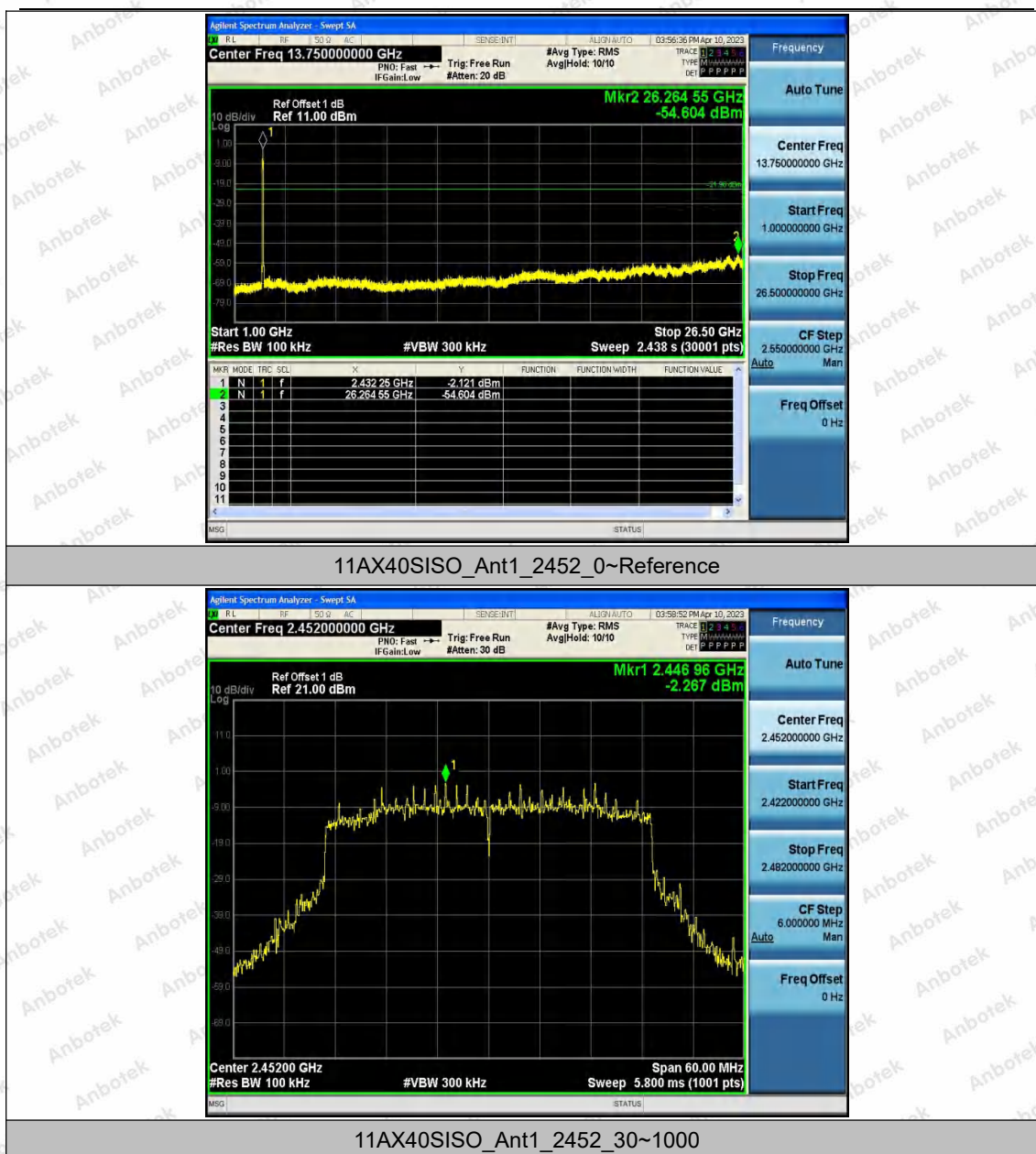
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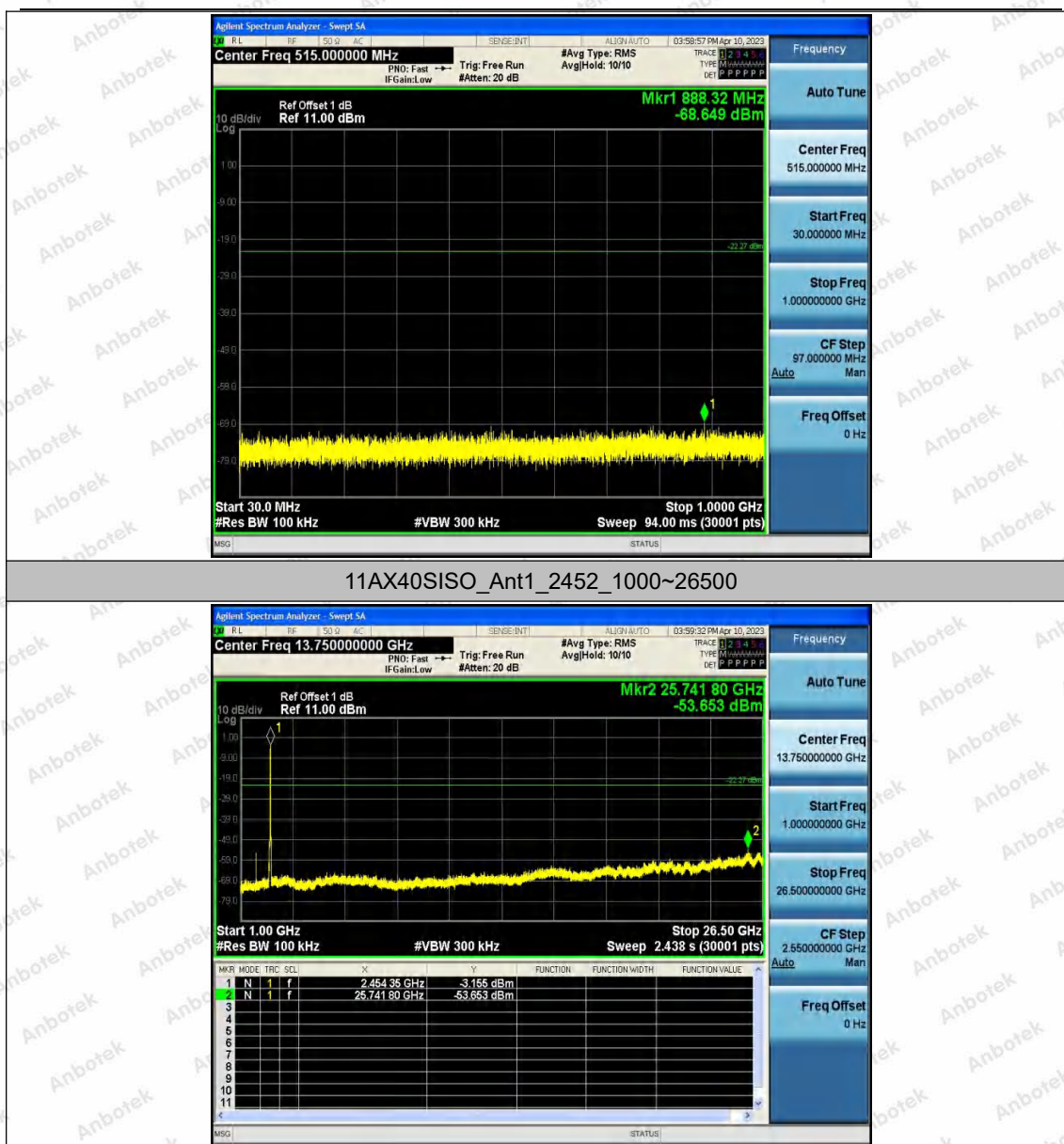
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.42	99.52	0.02
		2437	8.39	8.42	99.64	0.02
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.39	1.44	96.53	0.15
		2462	1.39	1.44	96.53	0.15
11N20SISO	Ant1	2412	1.30	1.35	96.30	0.16
		2437	1.30	1.35	96.30	0.16
		2462	1.30	1.34	97.01	0.13
11N40SISO	Ant1	2422	0.65	0.70	92.86	0.32
		2437	0.65	0.69	94.20	0.26
		2452	0.65	0.69	94.20	0.26
11AX20SISO	Ant1	2412	0.25	0.30	83.33	0.79
		2437	0.26	0.31	83.87	0.76
		2462	0.26	0.31	83.87	0.76
11AX40SISO	Ant1	2422	0.18	0.22	81.82	0.87
		2437	0.18	0.23	78.26	1.06
		2452	0.18	0.22	81.82	0.87



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

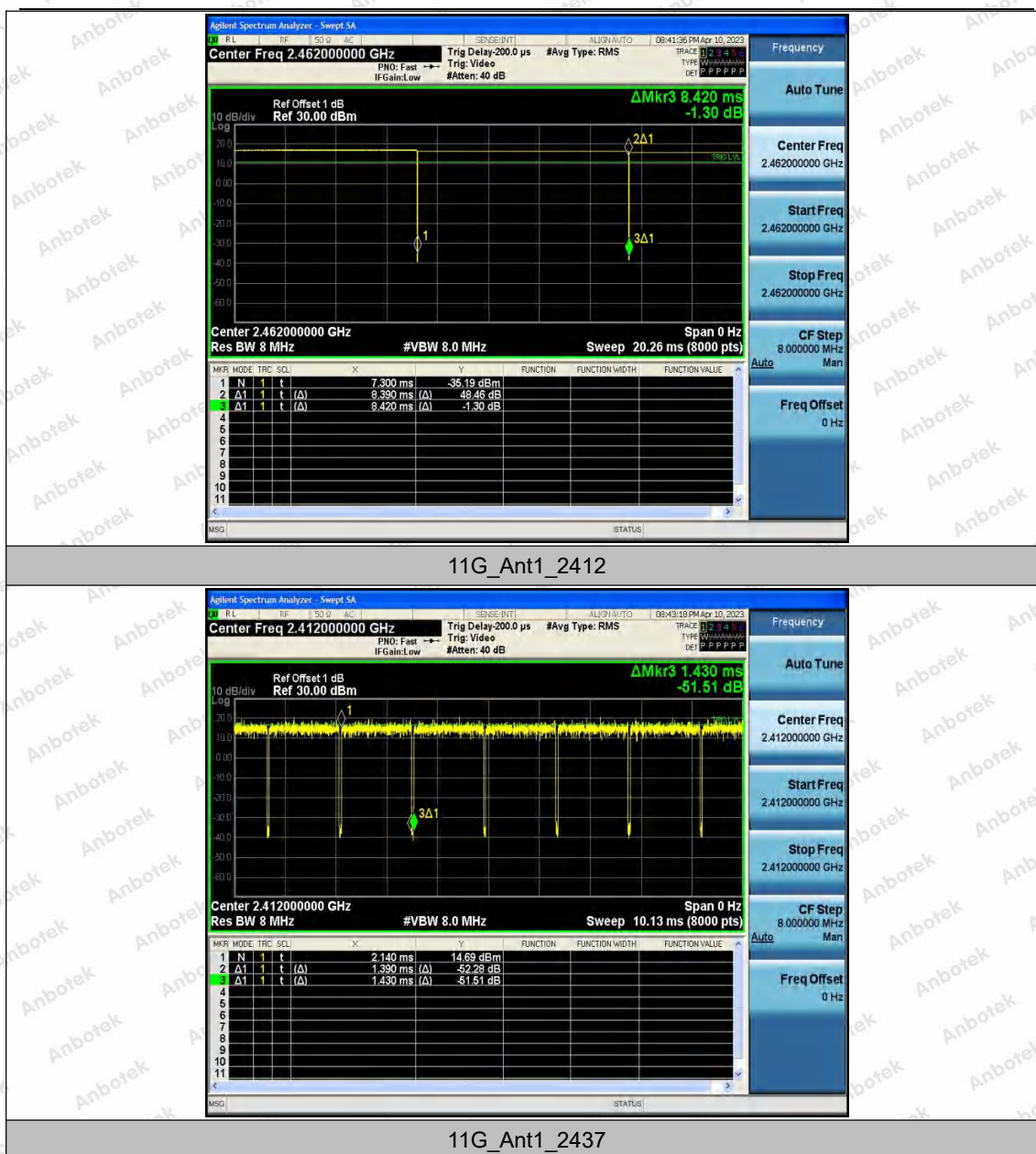
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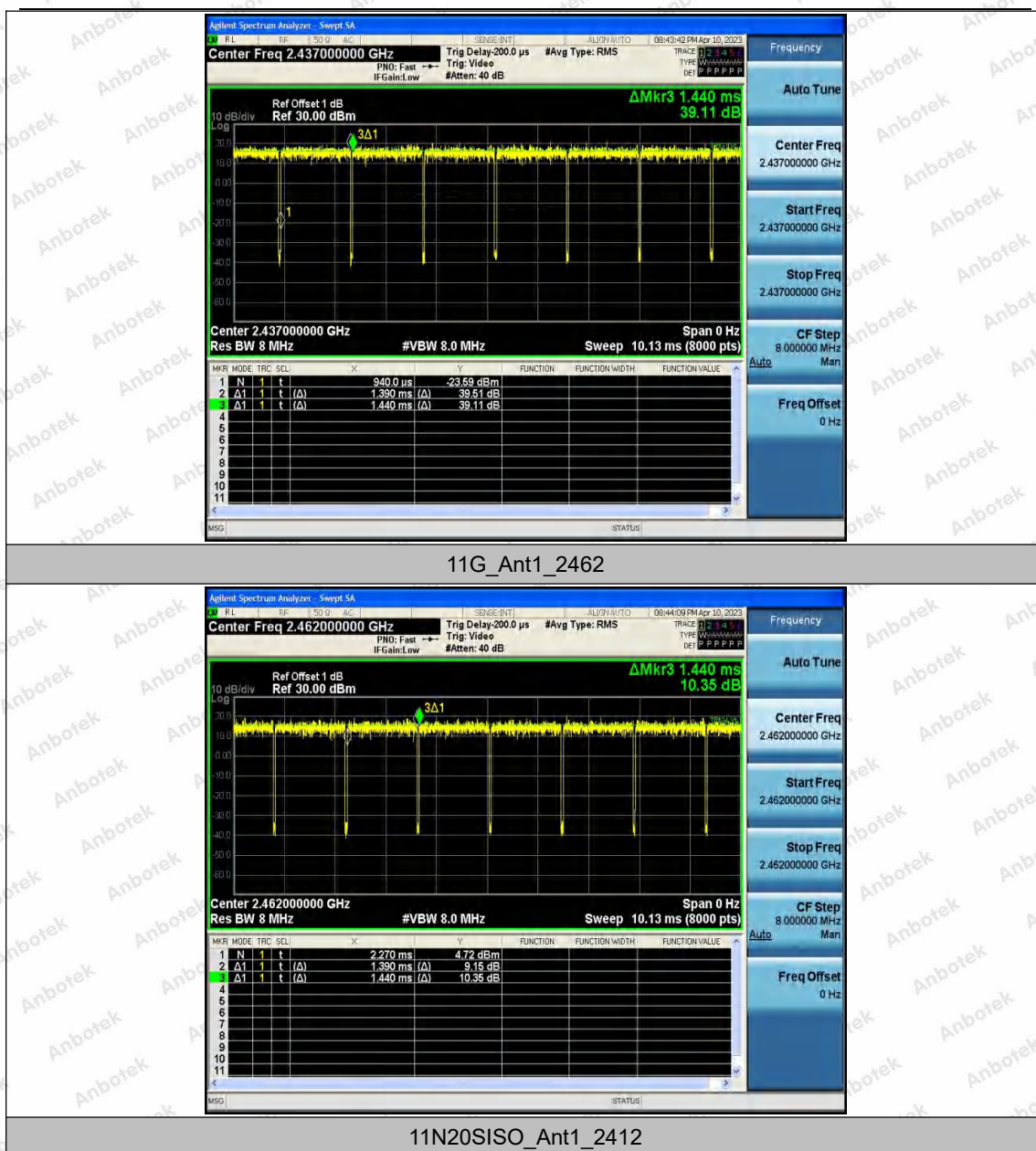
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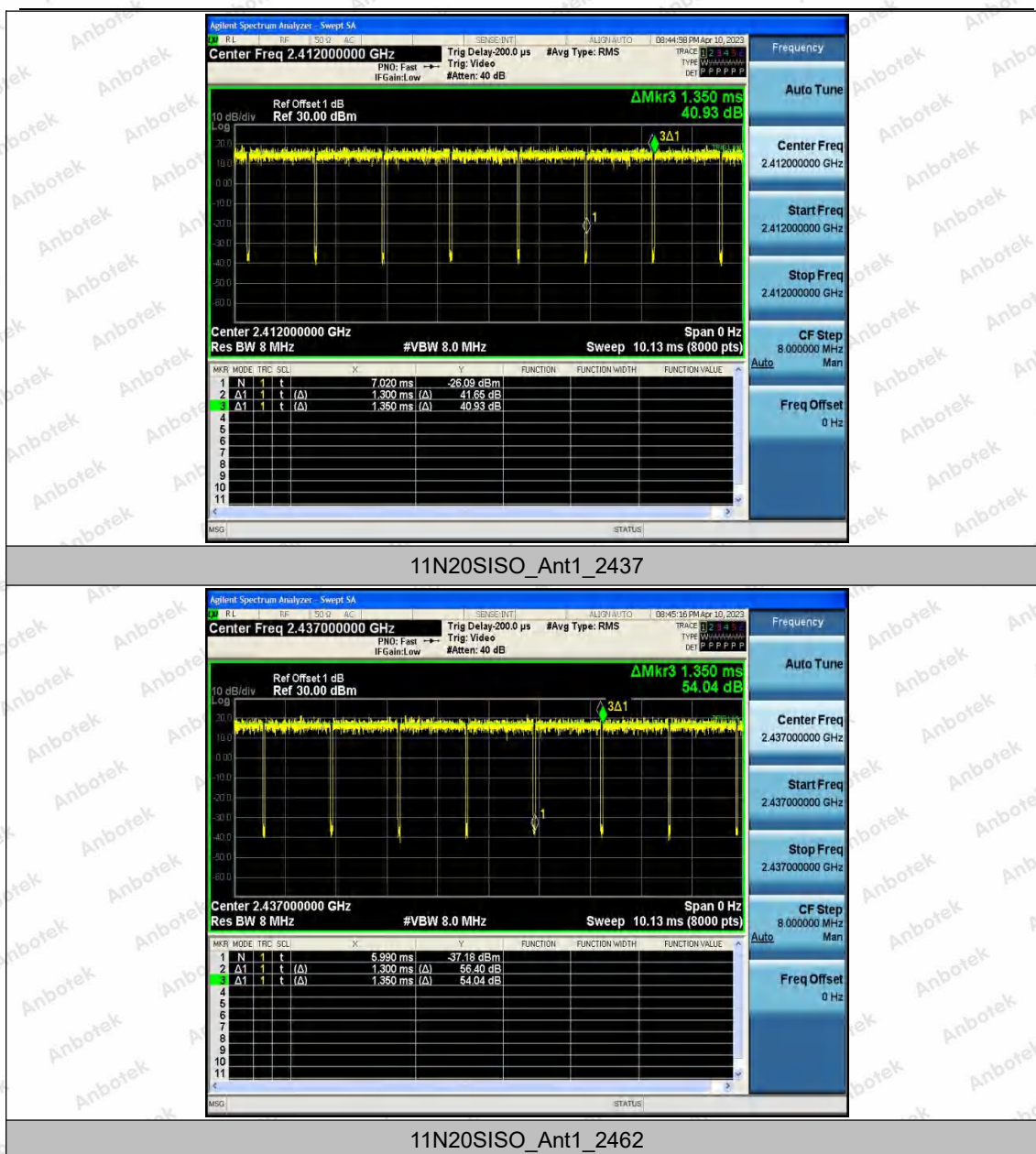
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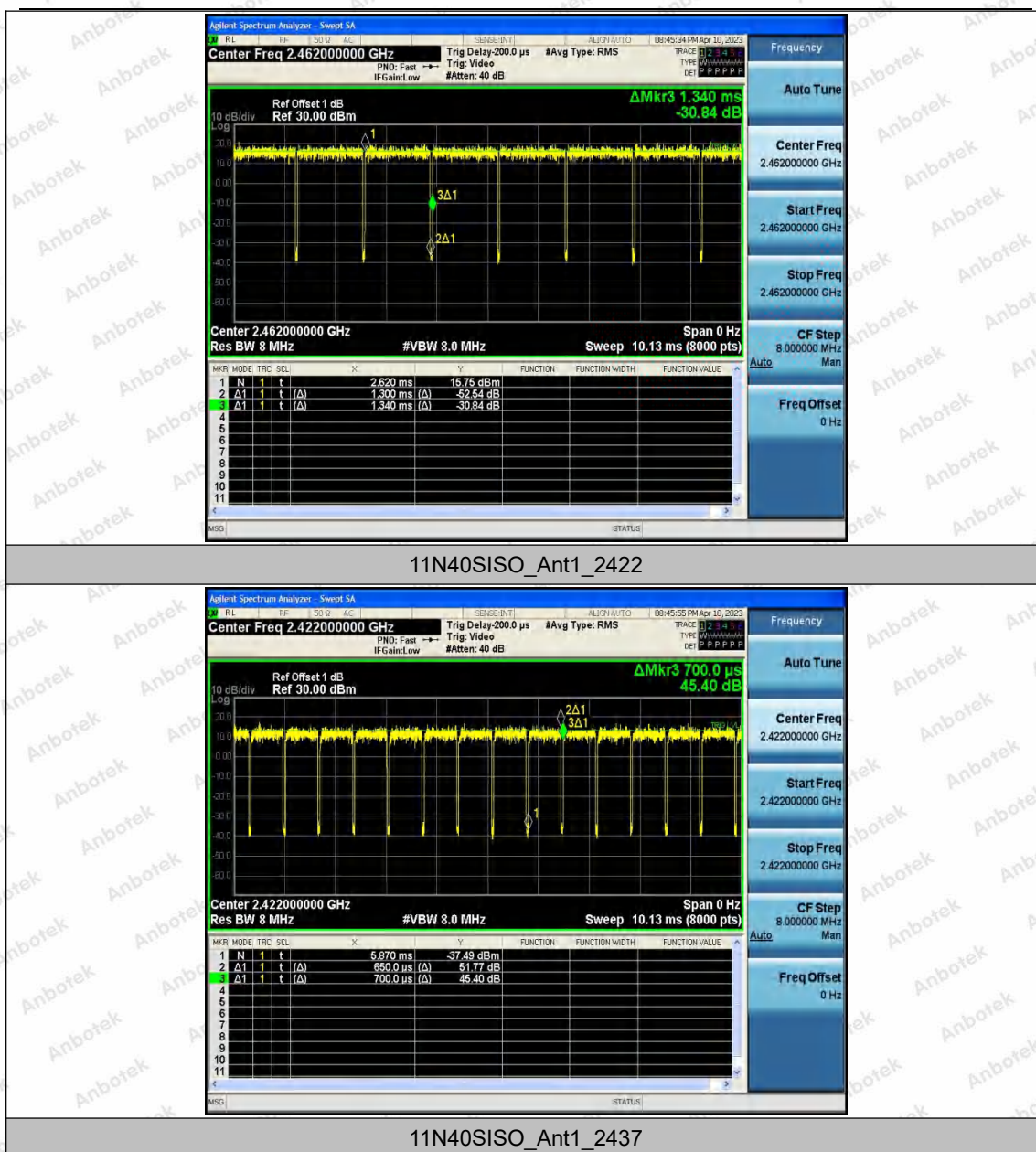
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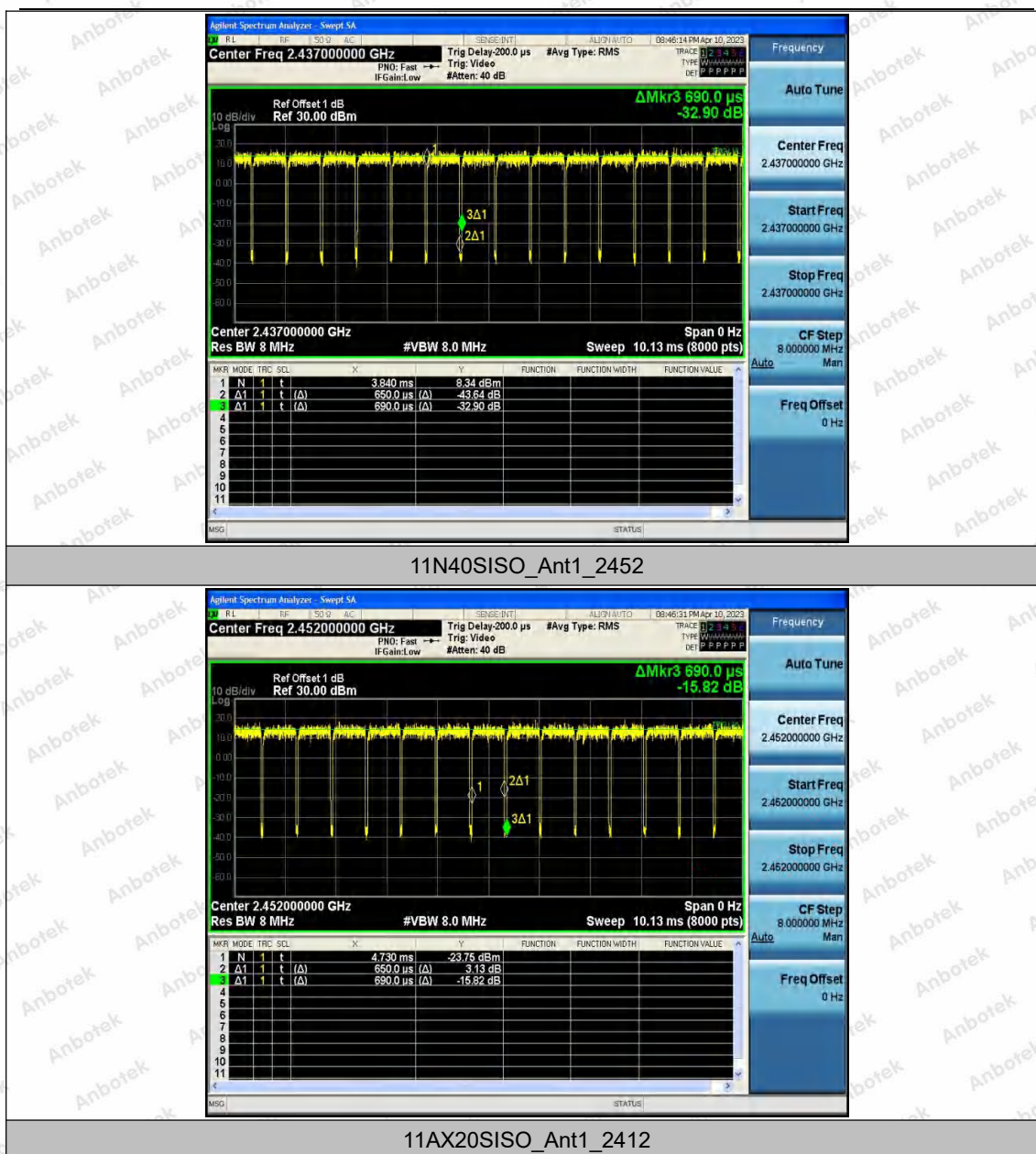
Shenzhen Anbotek Compliance Laboratory Limited

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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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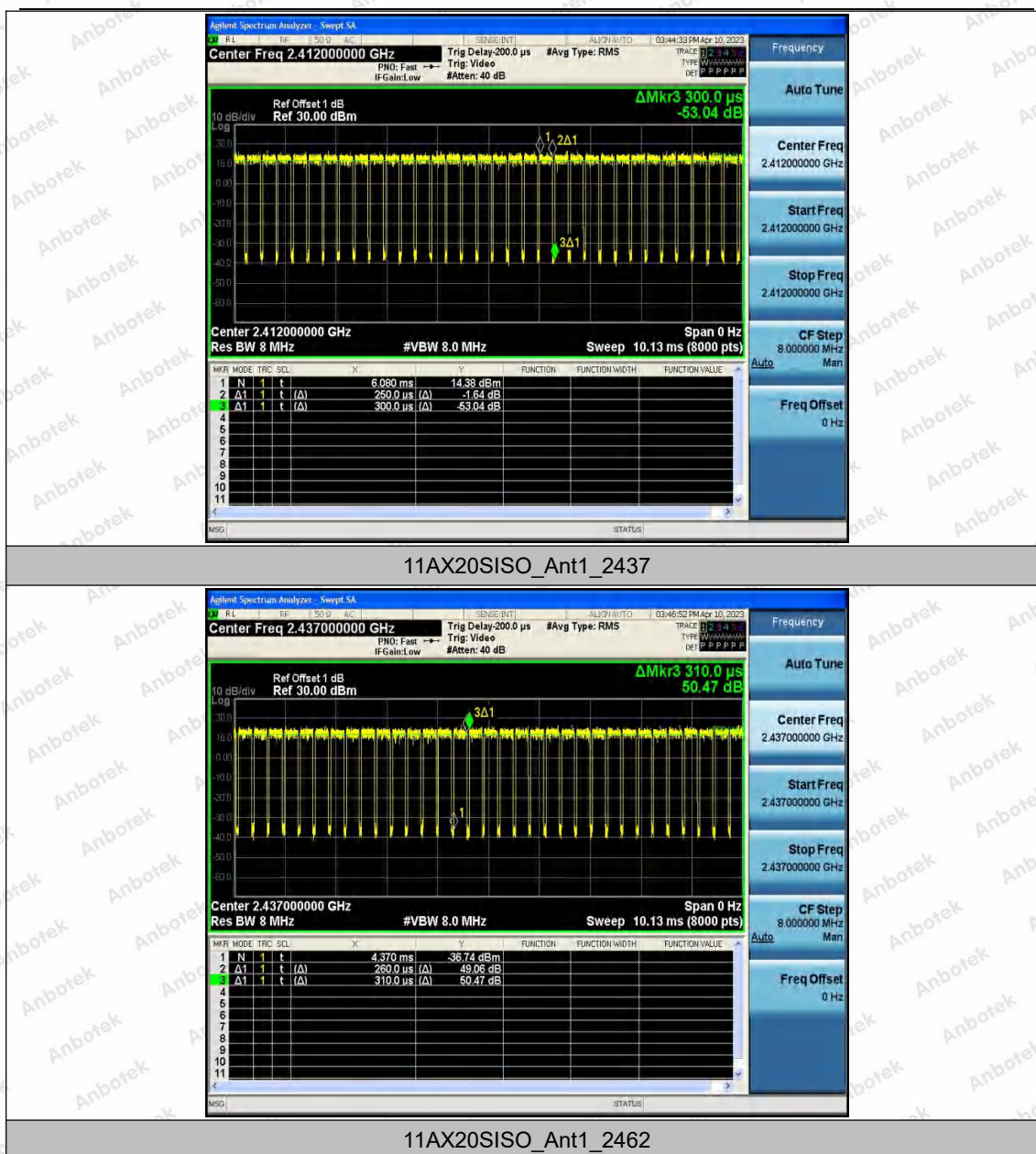
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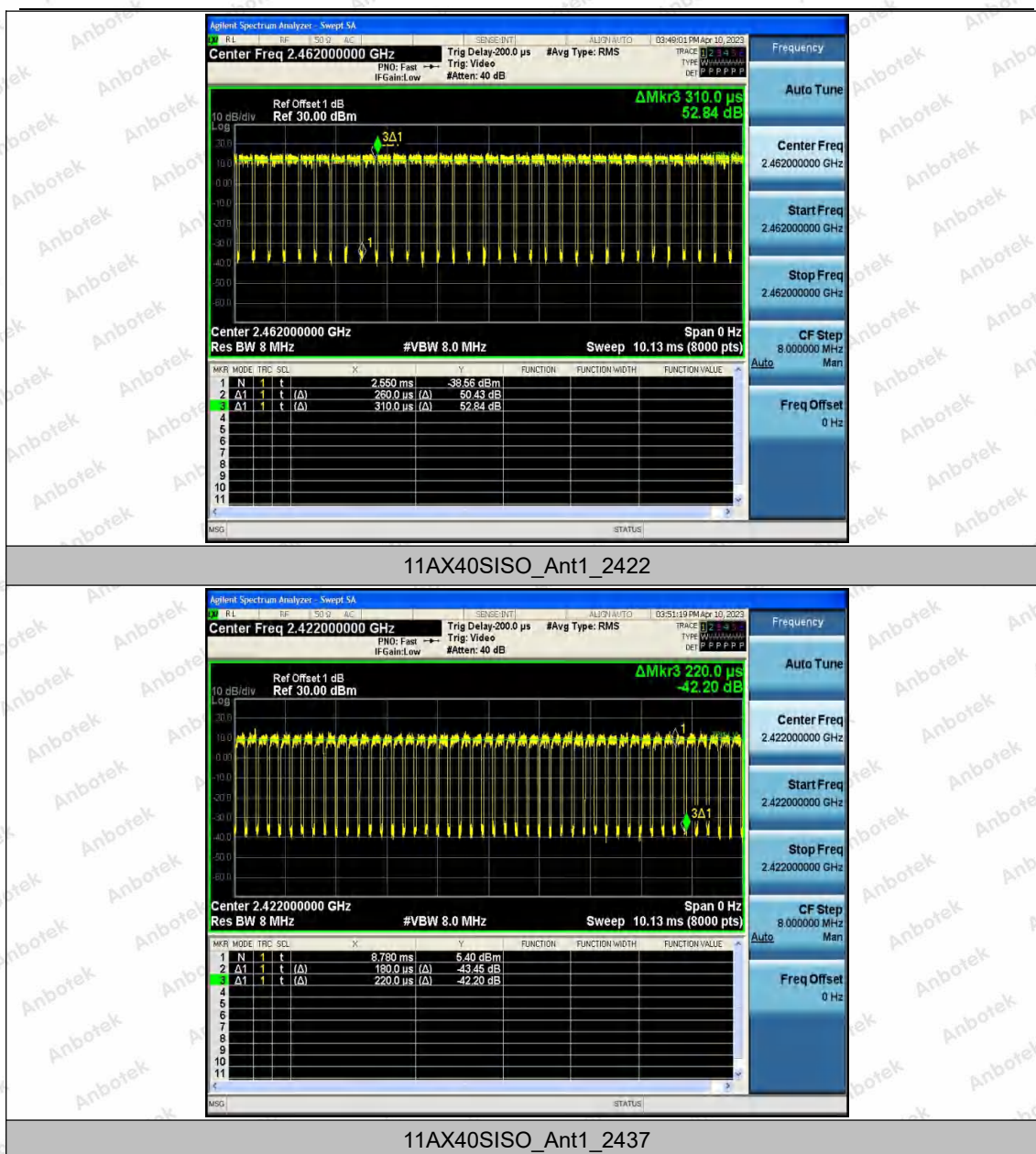
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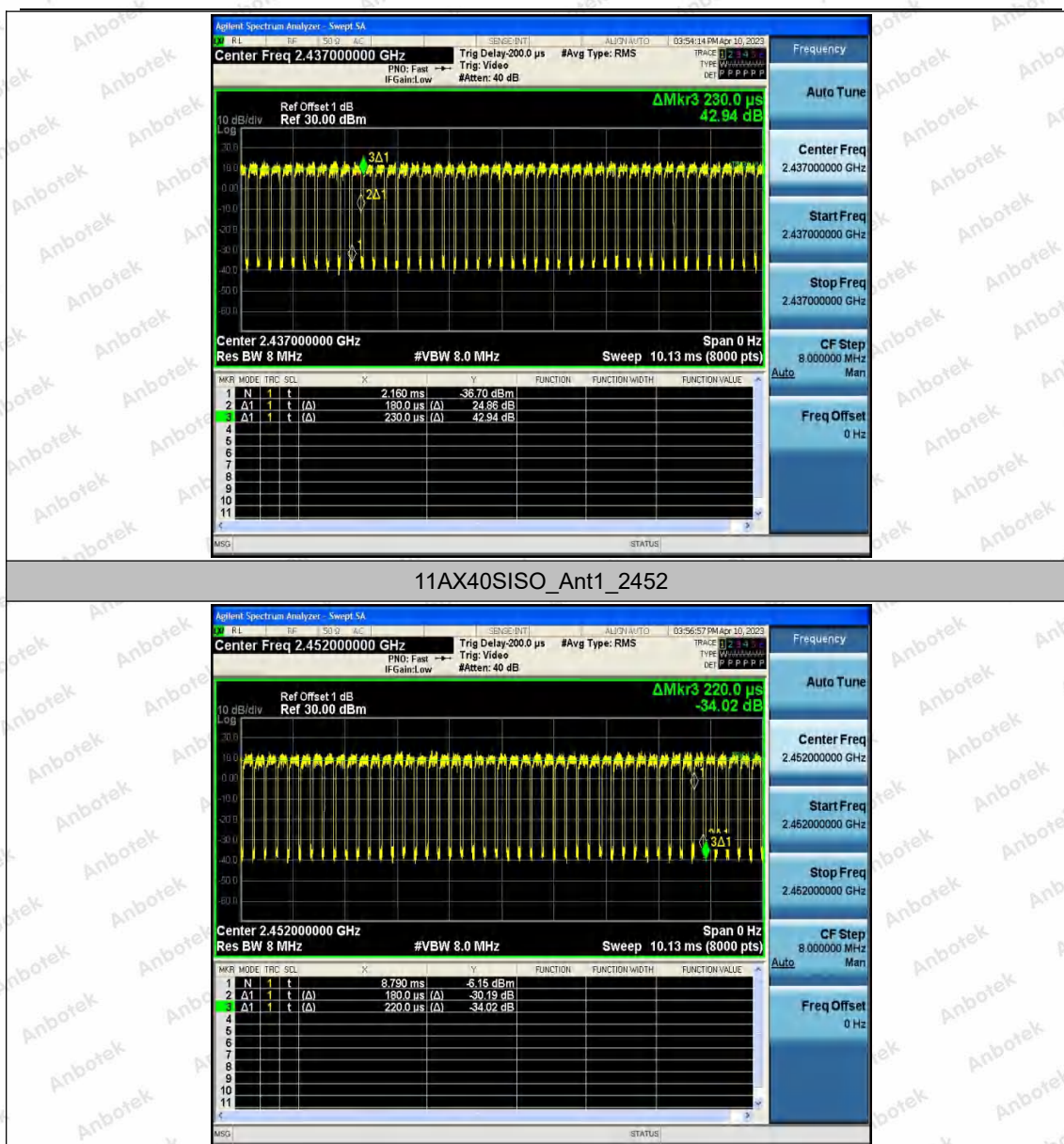
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