

Appendix Test Data

Report No.:	18220WC40024202	Test Sample No.:	1-2-2
Start Test Date:	2024.2.29	Finish Test Date:	2024.2.29
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.680	2408.280	2415.960	0.5	PASS
		2437	7.760	2433.120	2440.880	0.5	PASS
		2462	8.200	2457.920	2466.120	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.400	2428.760	2445.160	0.5	PASS
		2462	16.400	2453.760	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.640	2453.160	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	35.680	2418.840	2454.520	0.5	PASS
		2452	36.400	2438.800	2475.200	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462





11G_Ant1_2412



11G_Ant1_2437





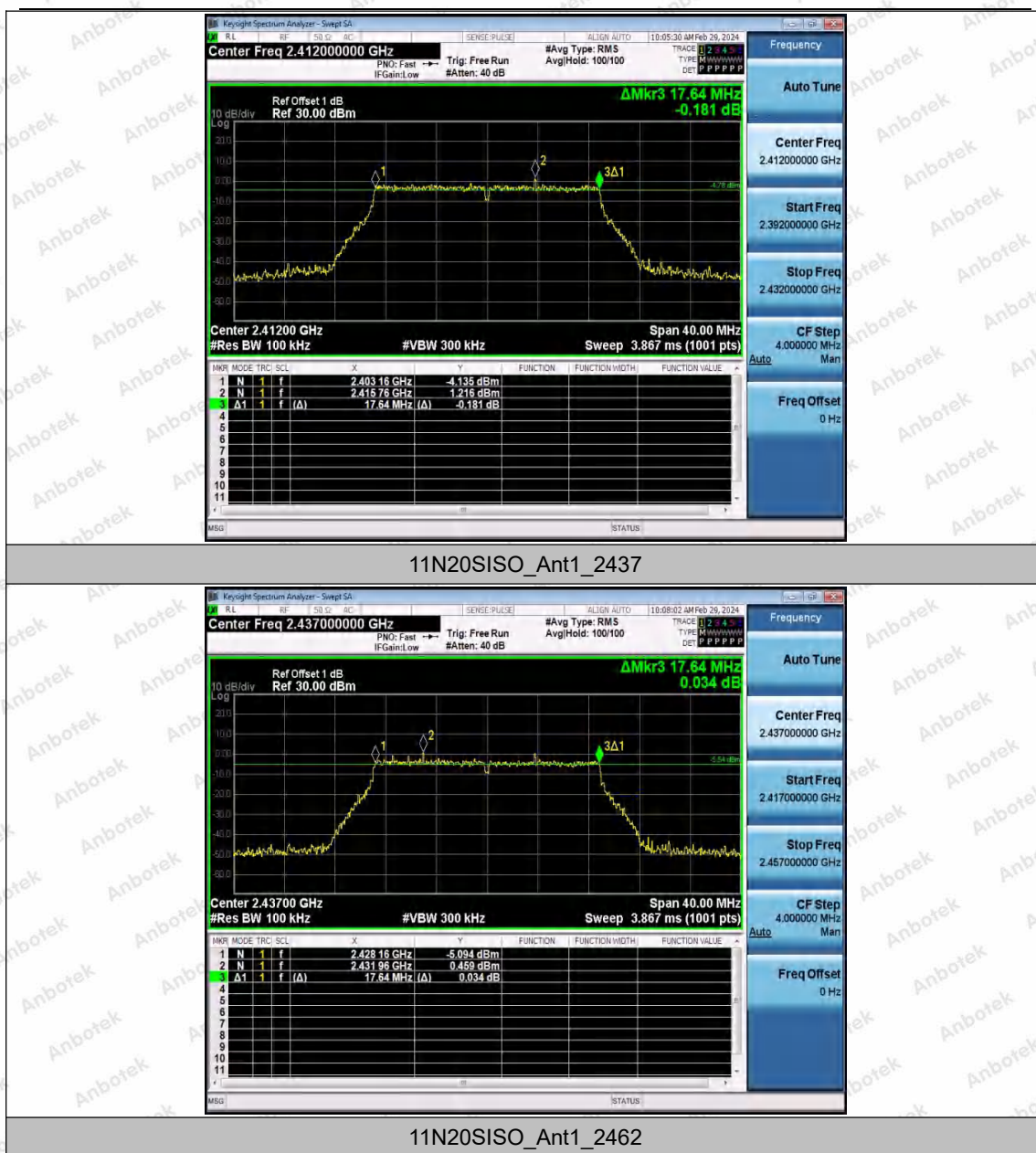
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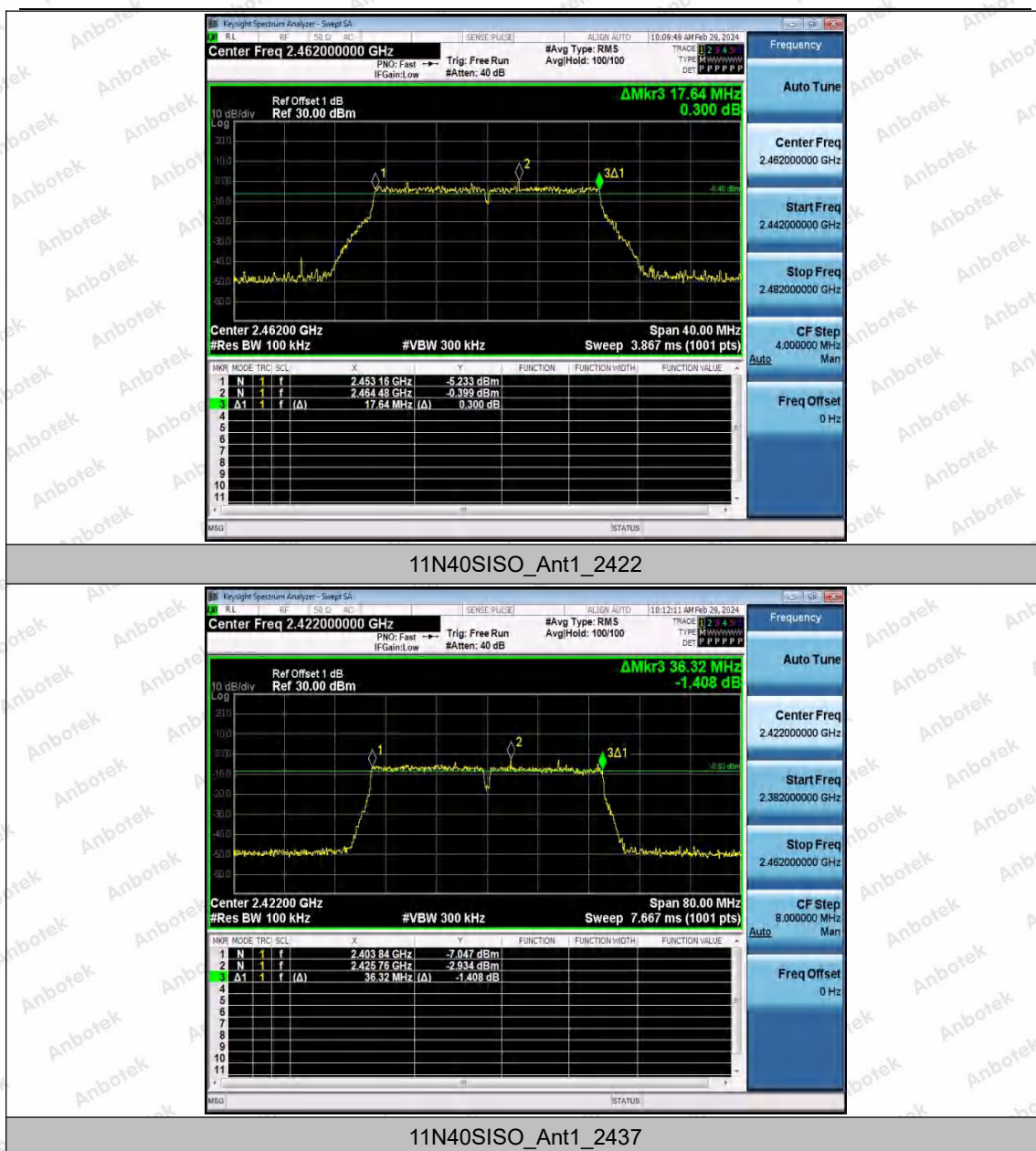
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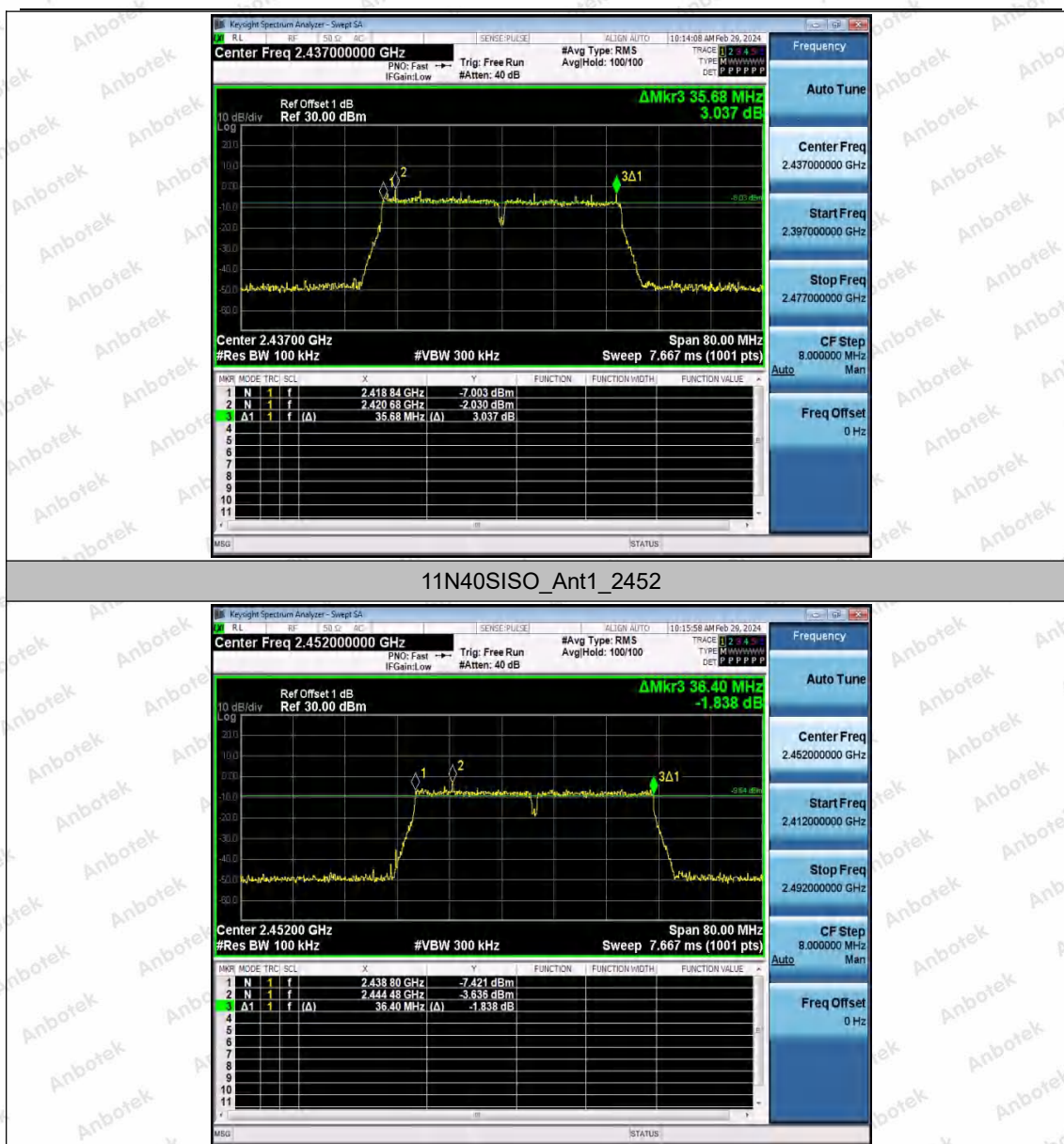
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Appendix B: Occupied Channel Bandwidth

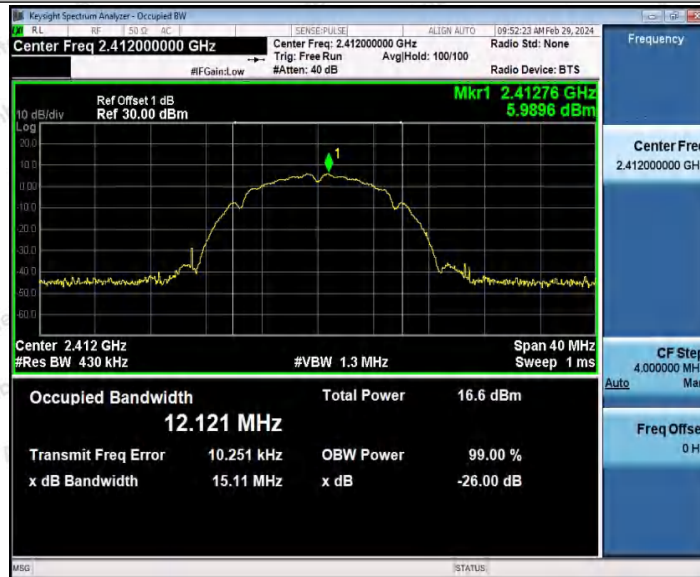
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.121	2405.9498	2418.0708	---	---
		2437	12.145	2430.8998	2443.0448	---	---
		2462	12.142	2455.9550	2468.0970	---	---
11G	Ant1	2412	17.428	2403.2933	2420.7213	---	---
		2437	17.445	2428.1827	2445.6277	---	---
		2462	17.488	2453.2702	2470.7582	---	---
11N20SISO	Ant1	2412	18.325	2402.8499	2421.1749	---	---
		2437	18.380	2427.7816	2446.1616	---	---
		2462	18.445	2452.7762	2471.2212	---	---
11N40SISO	Ant1	2422	36.484	2403.7556	2440.2396	---	---
		2437	36.743	2418.5877	2455.3307	---	---
		2452	36.779	2438.6217	2475.4007	---	---



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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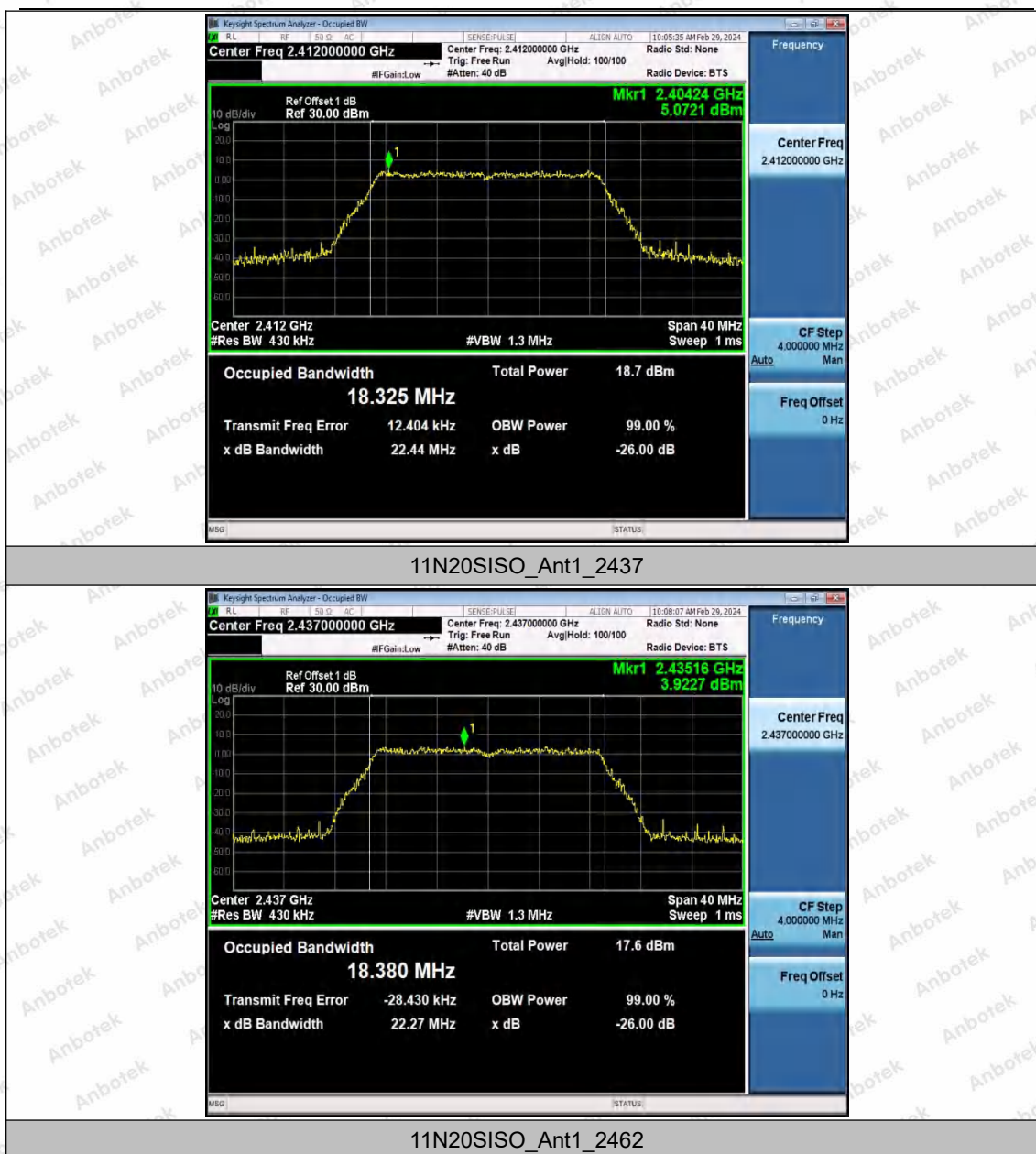
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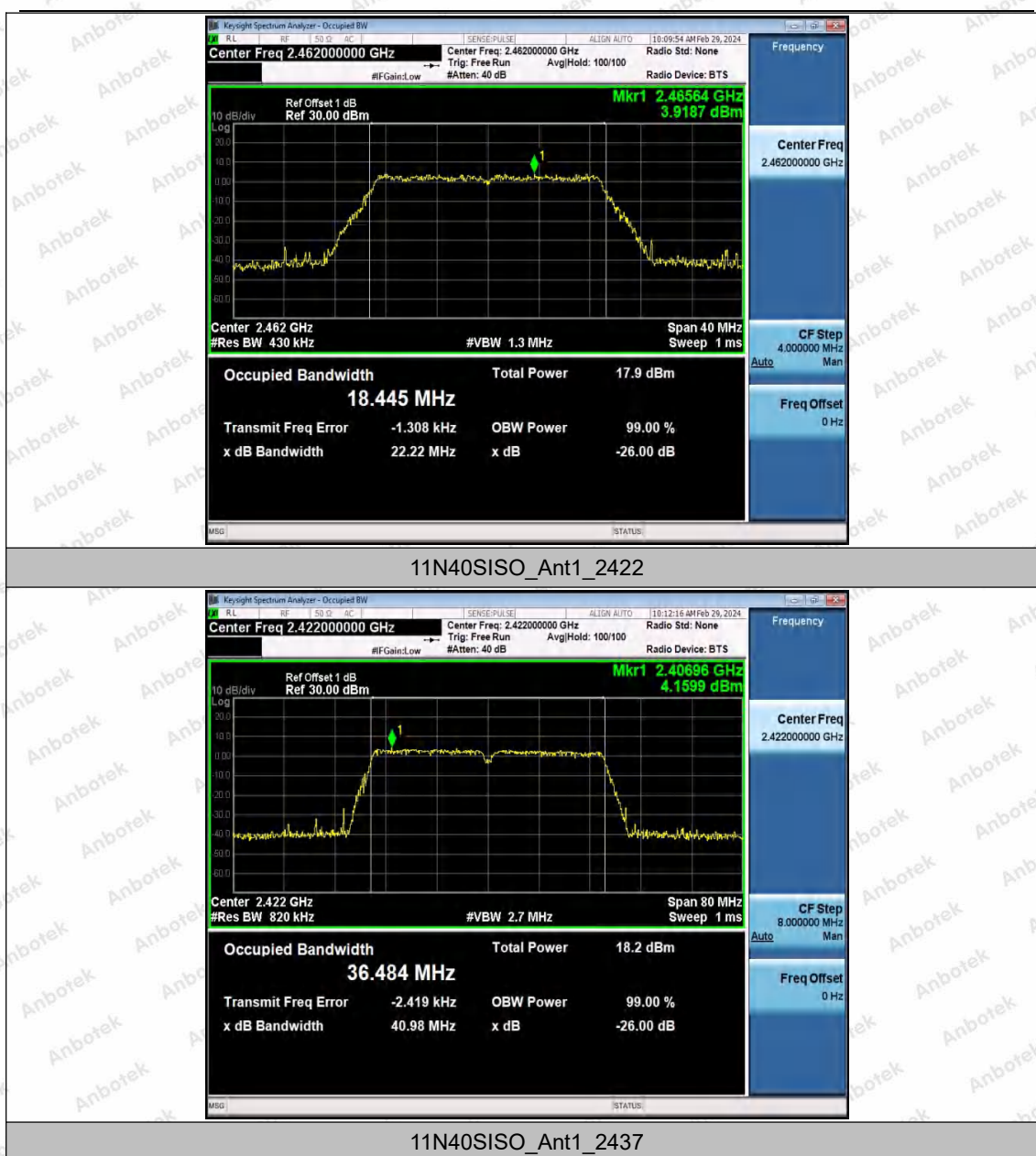
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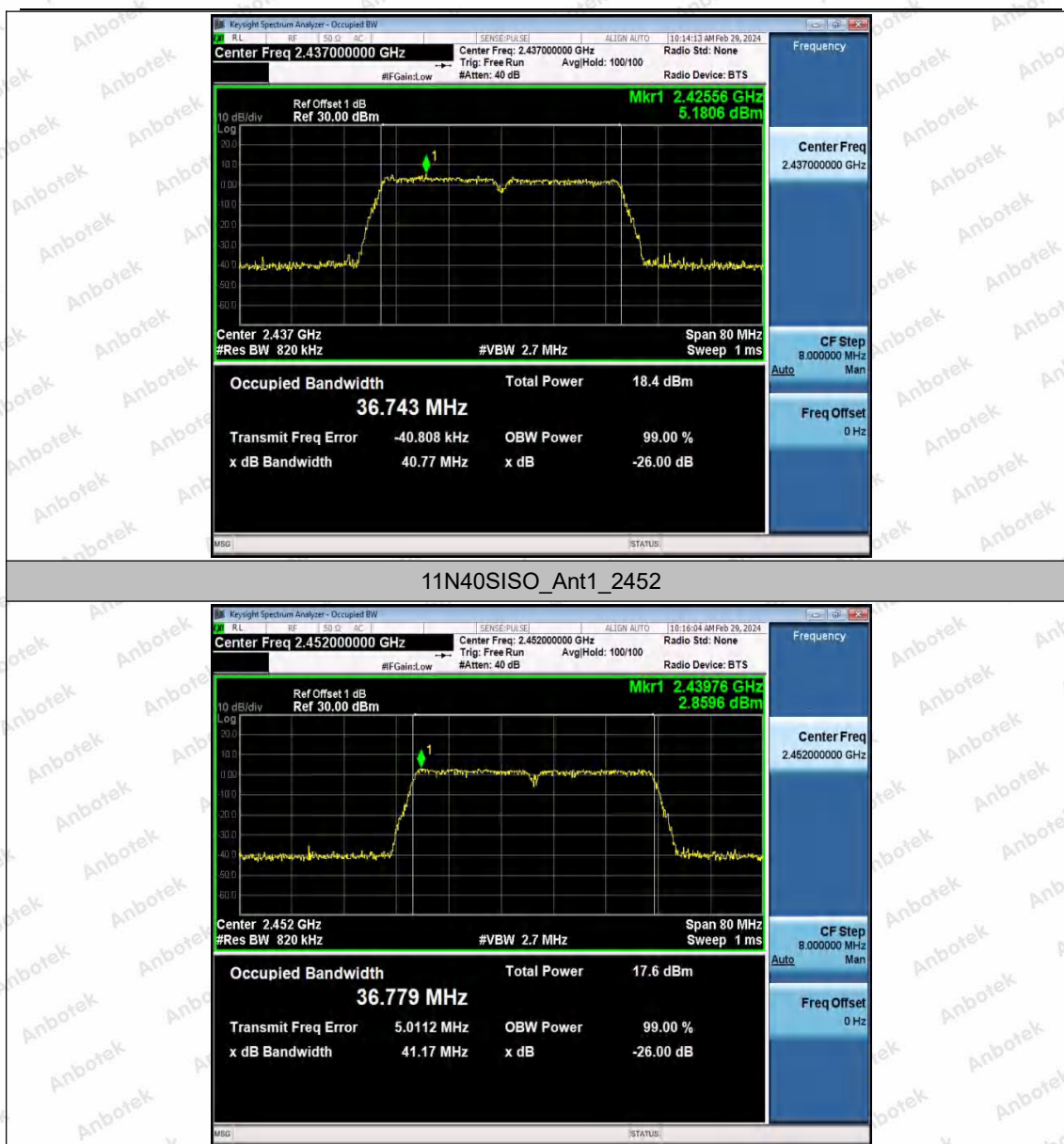
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Appendix C: Maximum conducted output power

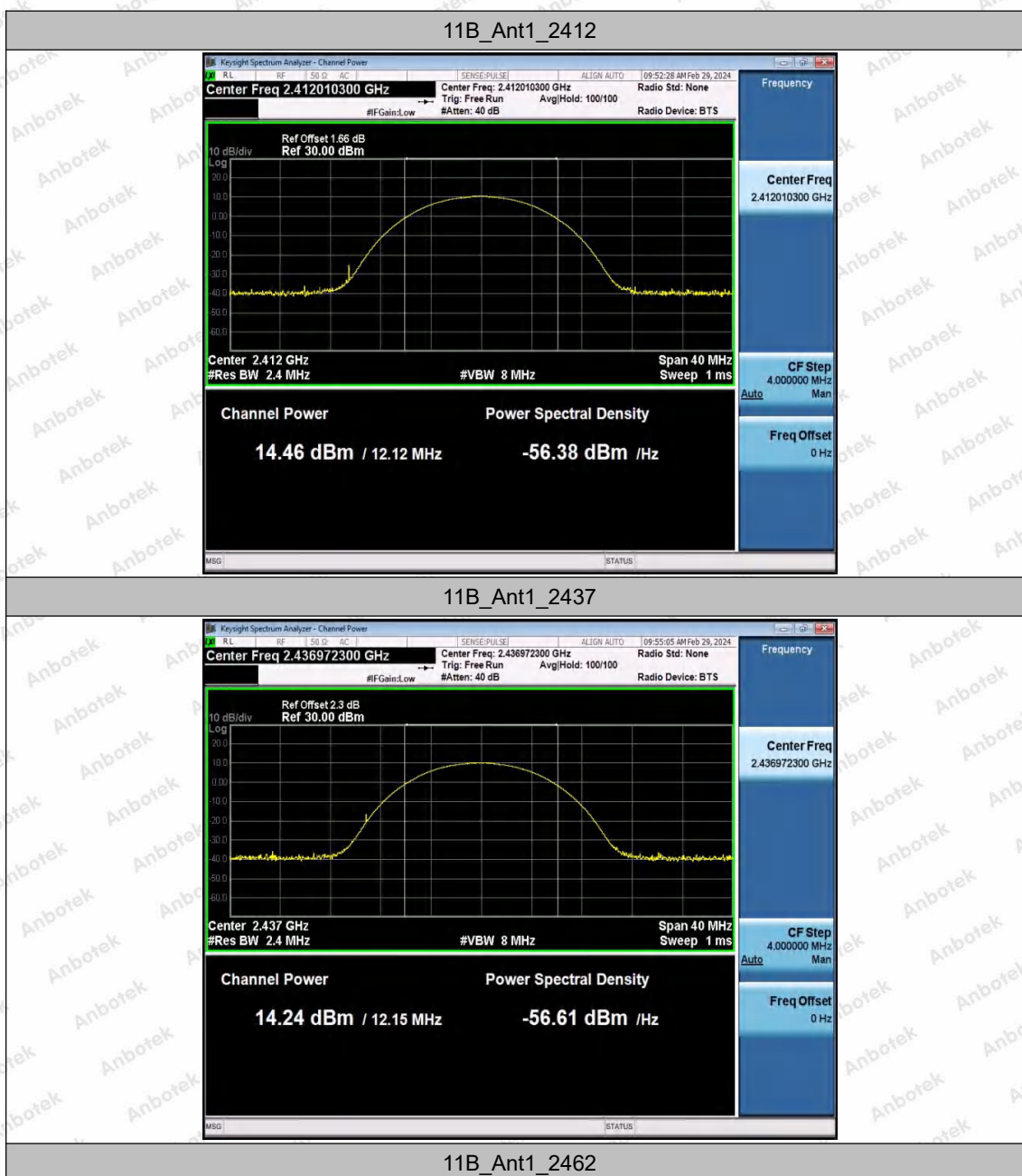
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.46	≤30.00
		2437	14.24	≤30.00
		2462	13.81	≤30.00
11G	Ant1	2412	15.65	≤30.00
		2437	15.28	≤30.00
		2462	15.52	≤30.00
11N20SISO	Ant1	2412	15.76	≤30.00
		2437	15.61	≤30.00
		2462	15.62	≤30.00
11N40SISO	Ant1	2422	15.19	≤30.00
		2437	15.34	≤30.00
		2452	14.62	≤30.00

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



Test Graphs



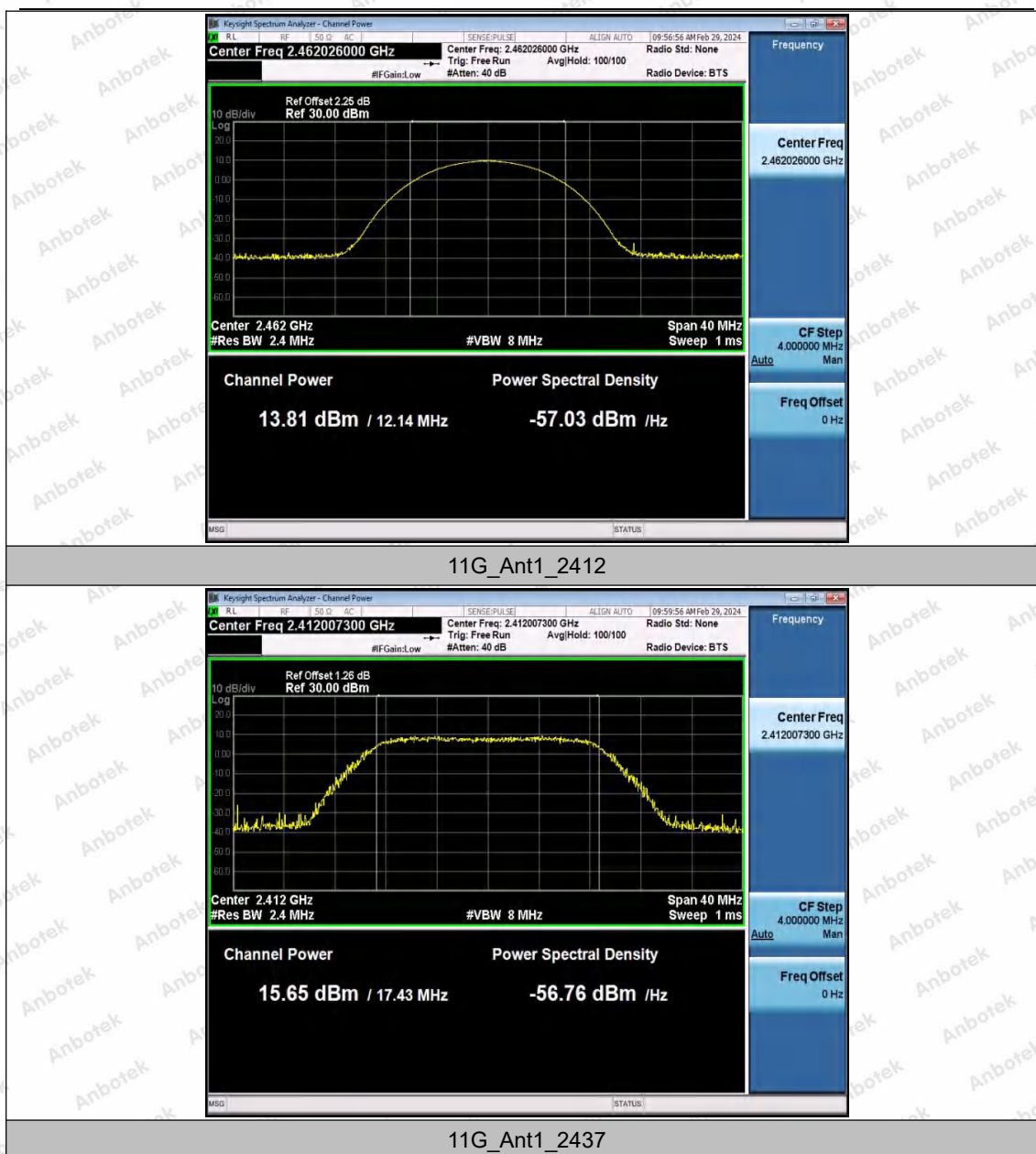
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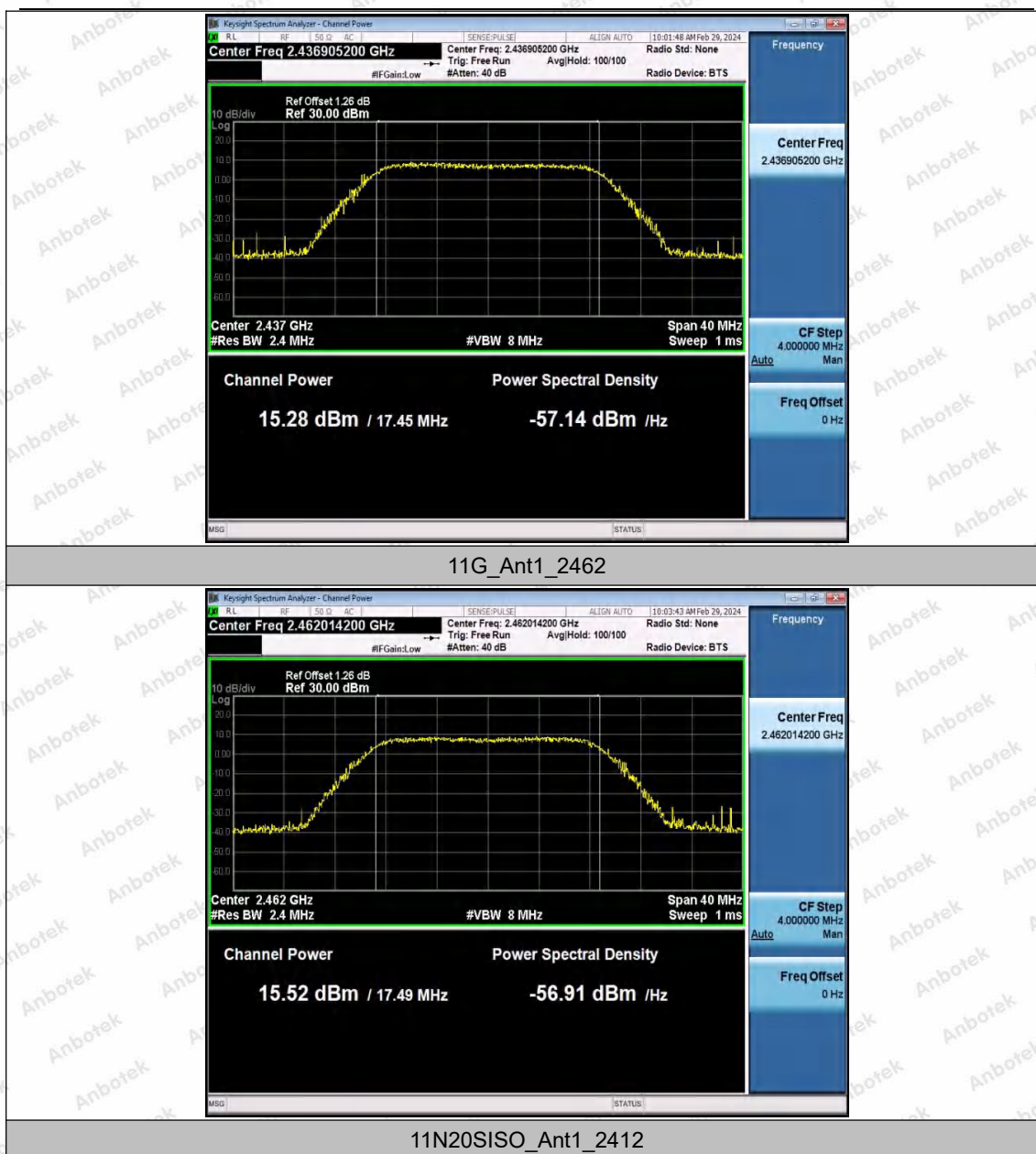
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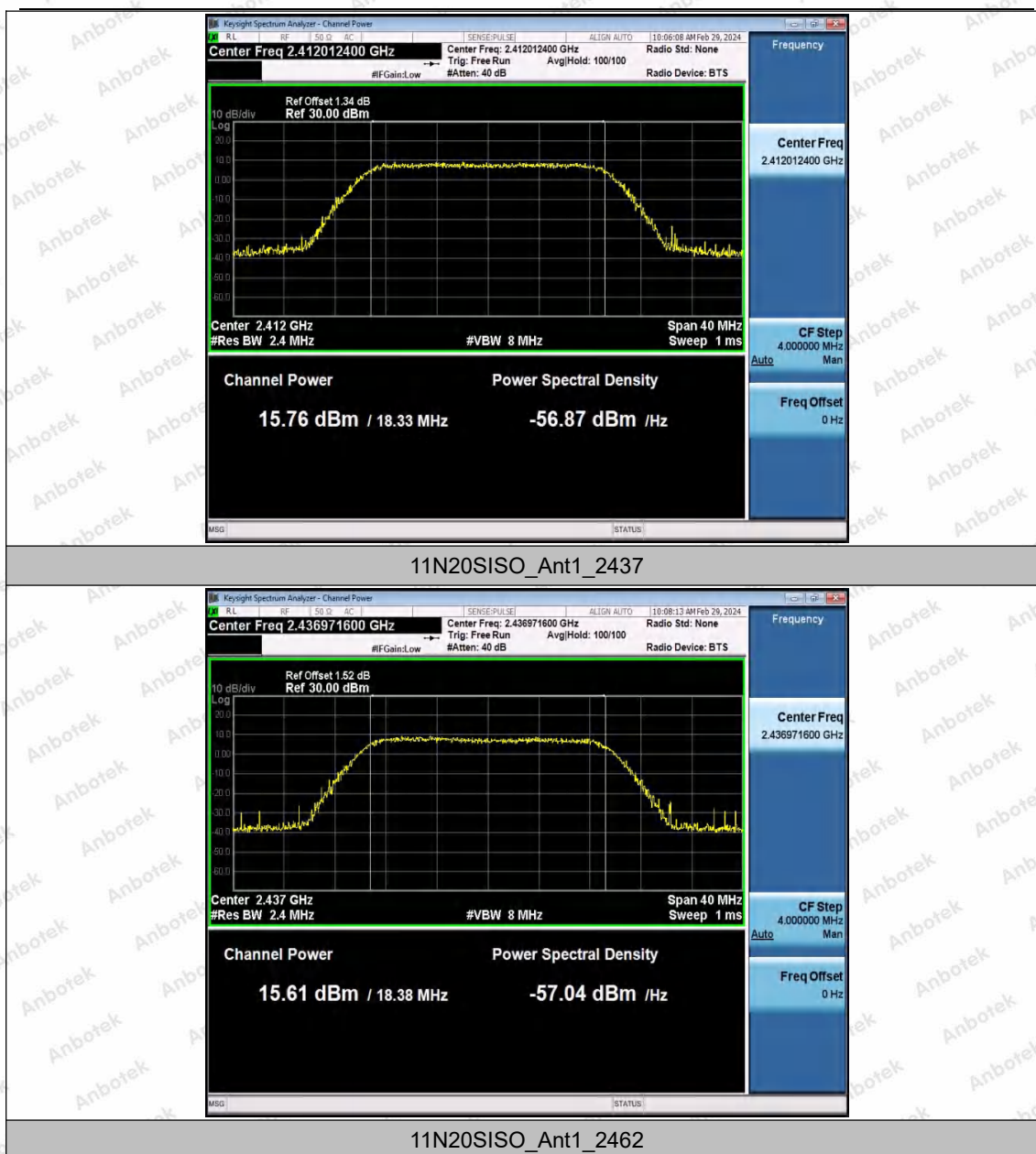
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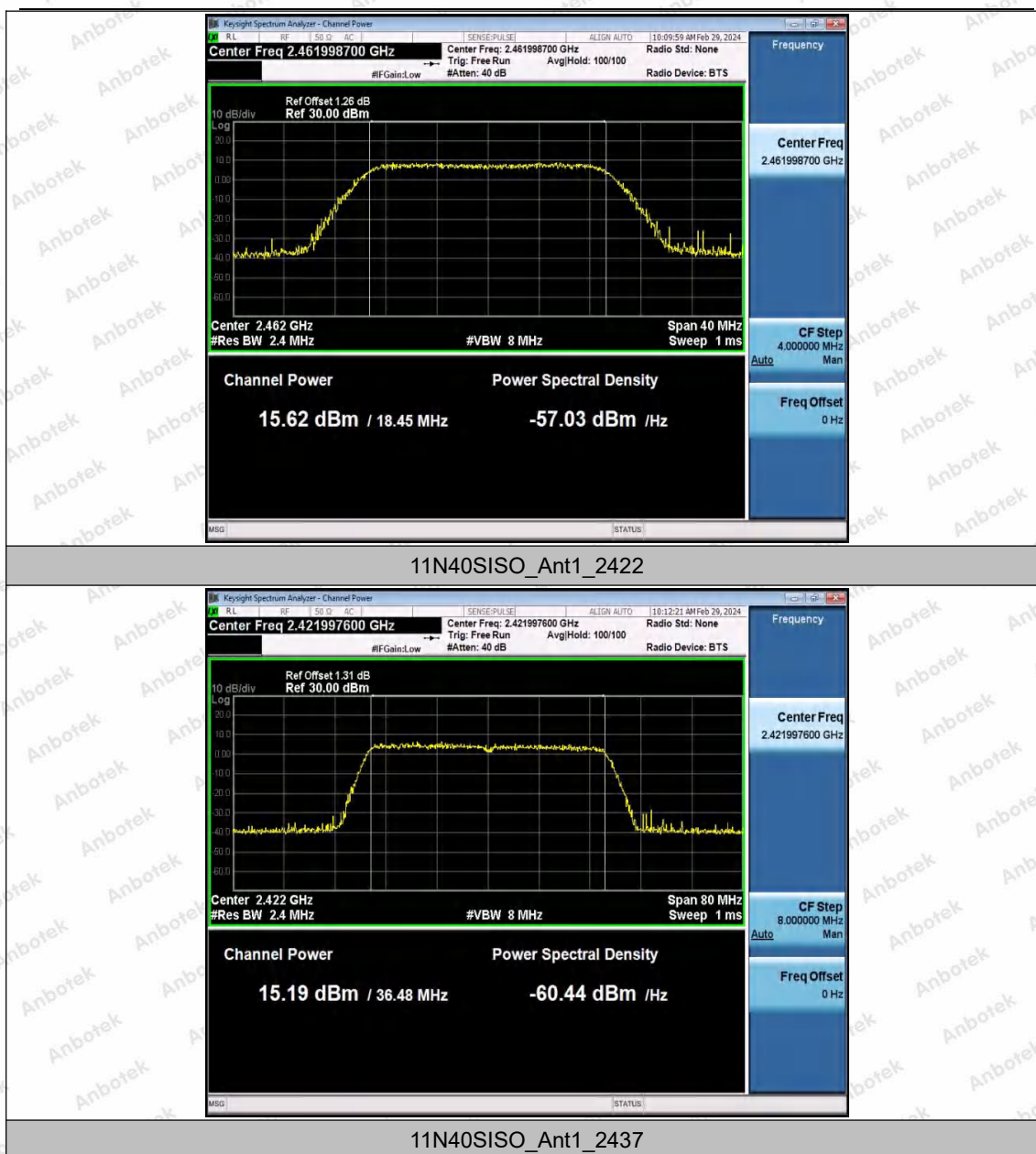
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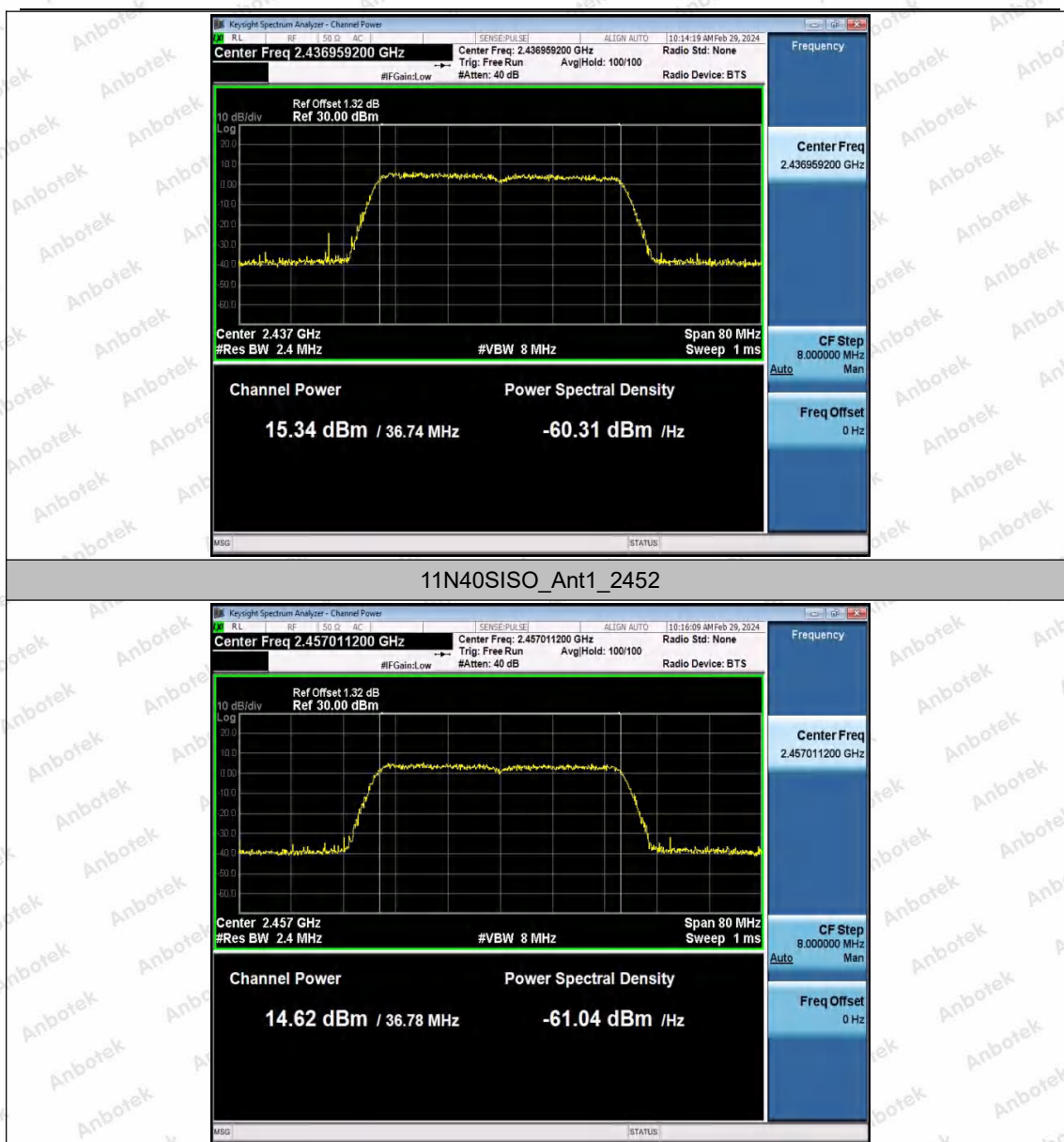
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.16	-18.16	≤8.00	PASS
		2437	-8.74	-18.74	≤8.00	PASS
		2462	-9.5	-19.50	≤8.00	PASS
11G	Ant1	2412	-14.27	-24.27	≤8.00	PASS
		2437	-14.32	-24.32	≤8.00	PASS
		2462	-14.25	-24.25	≤8.00	PASS
11N20SISO	Ant1	2412	-14.39	-24.39	≤8.00	PASS
		2437	-13.9	-23.90	≤8.00	PASS
		2462	-15.08	-25.08	≤8.00	PASS
11N40SISO	Ant1	2422	-17.99	-27.99	≤8.00	PASS
		2437	-17.36	-27.36	≤8.00	PASS
		2452	-18.71	-28.71	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

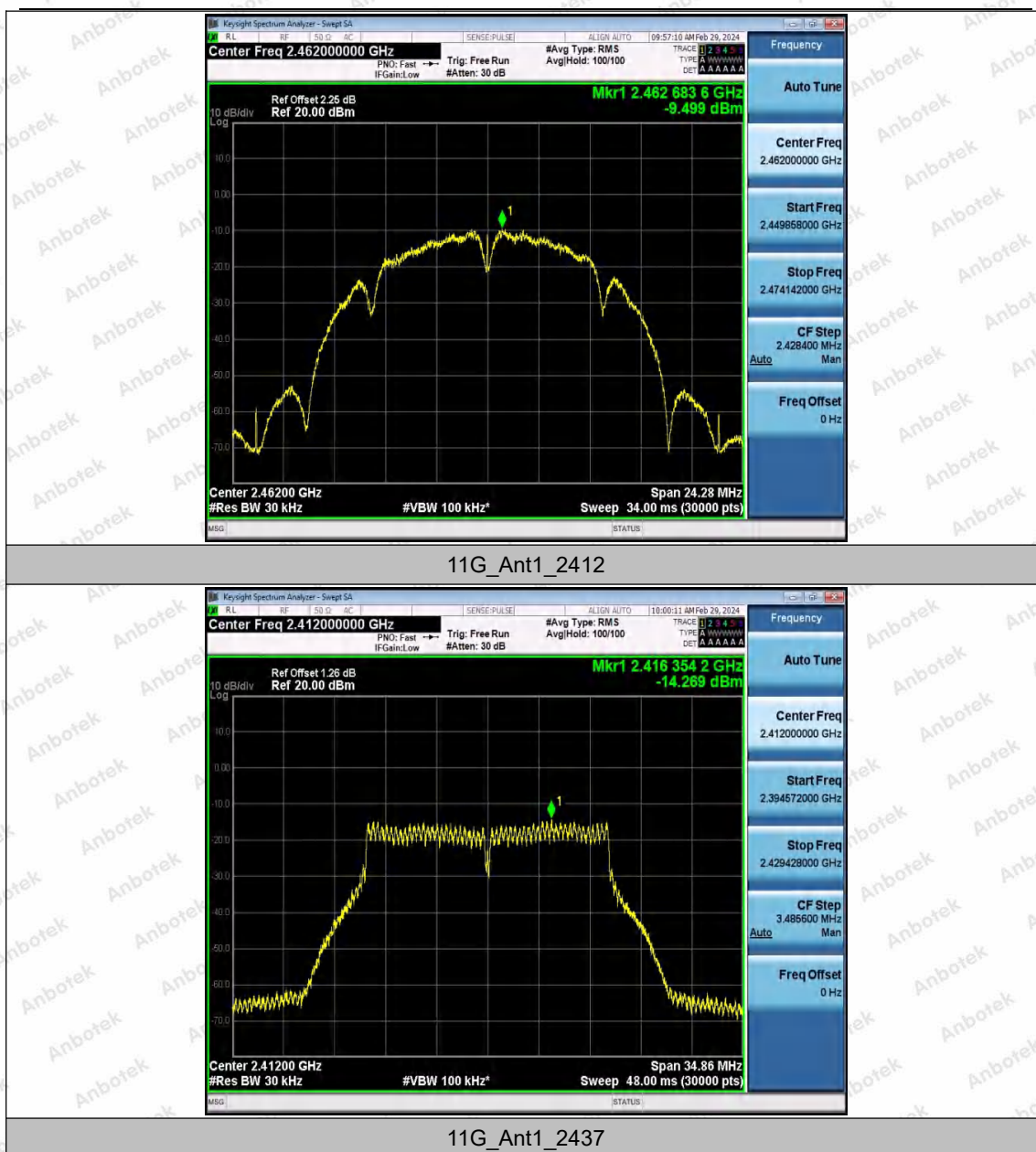
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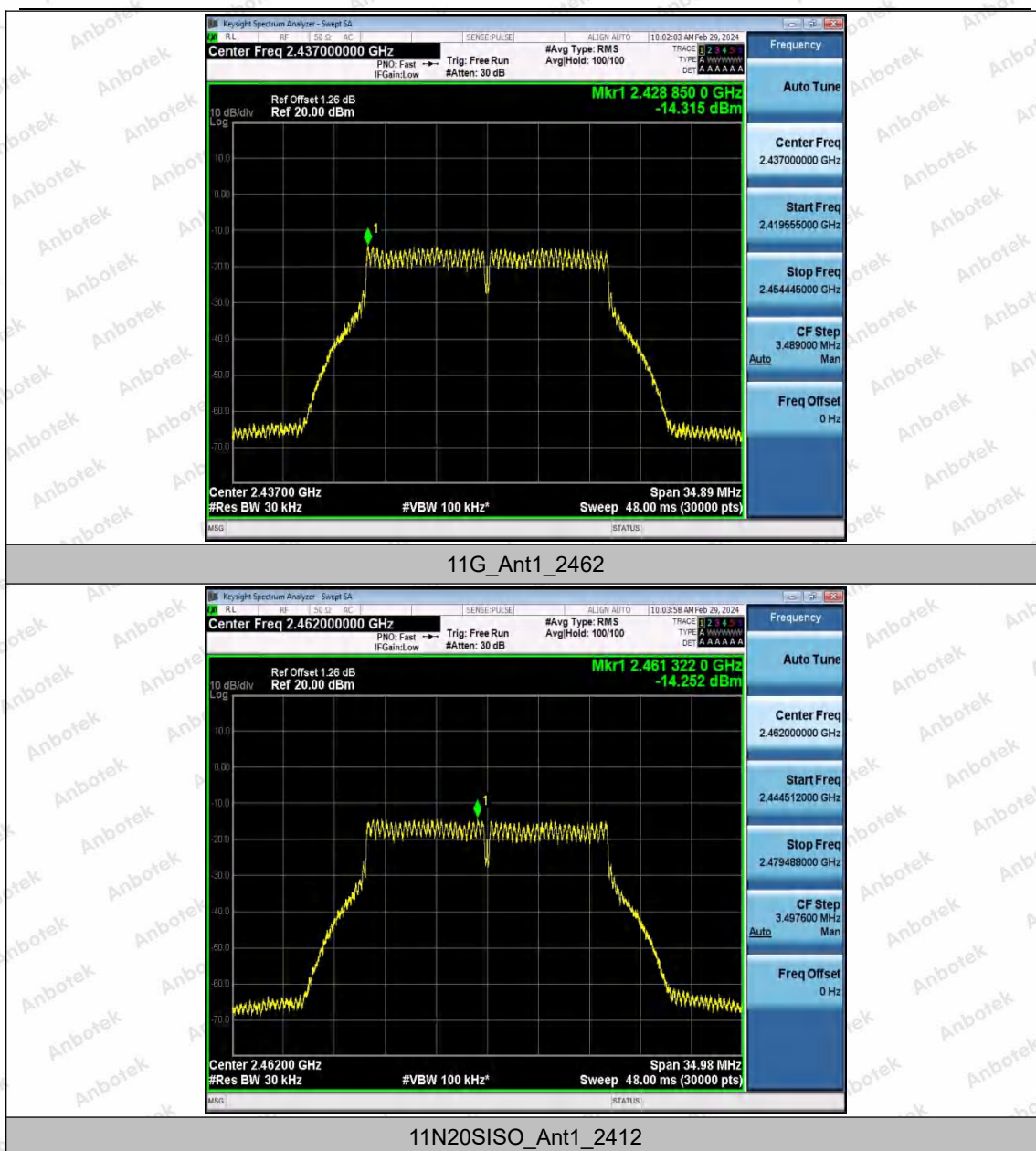
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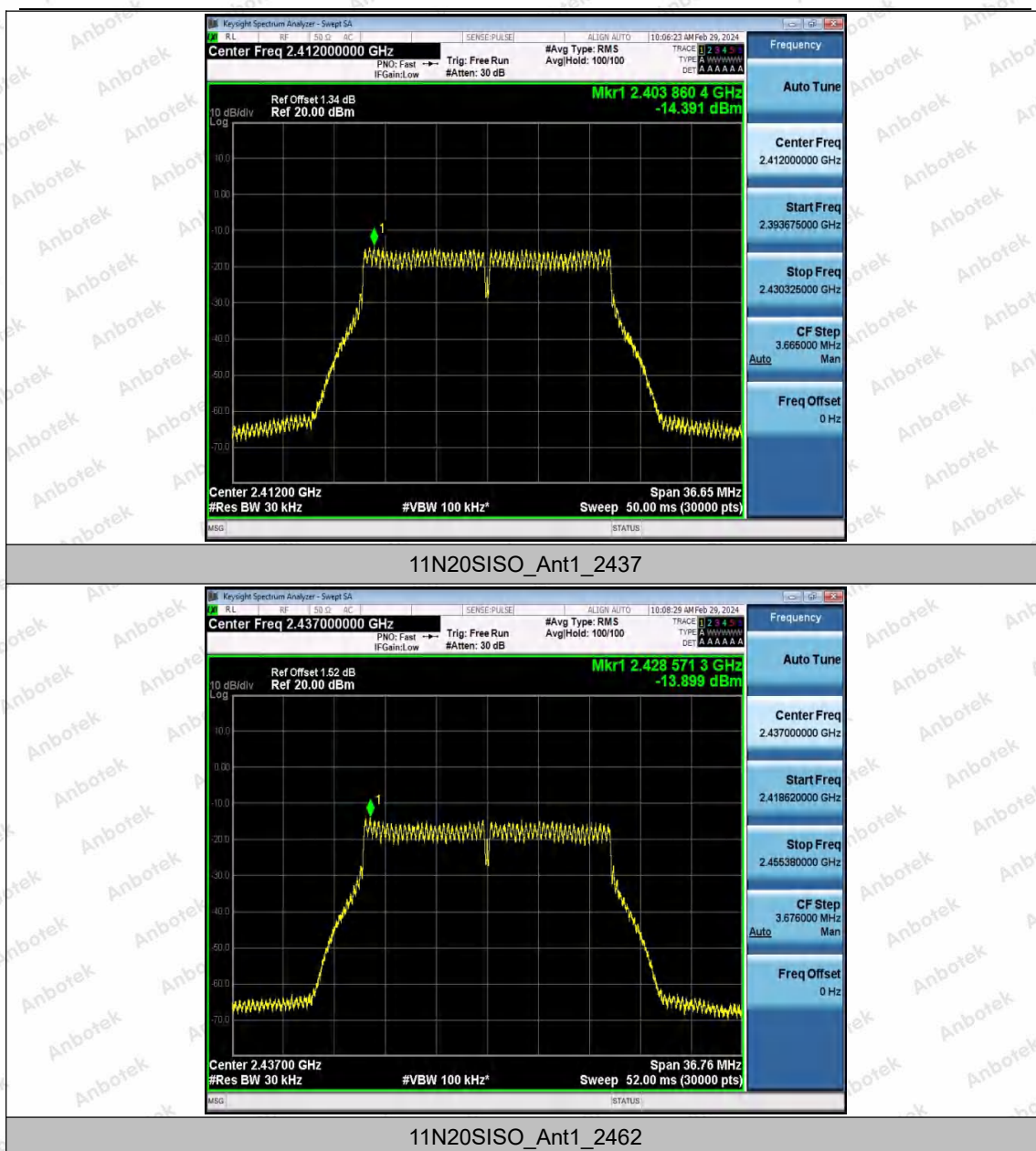
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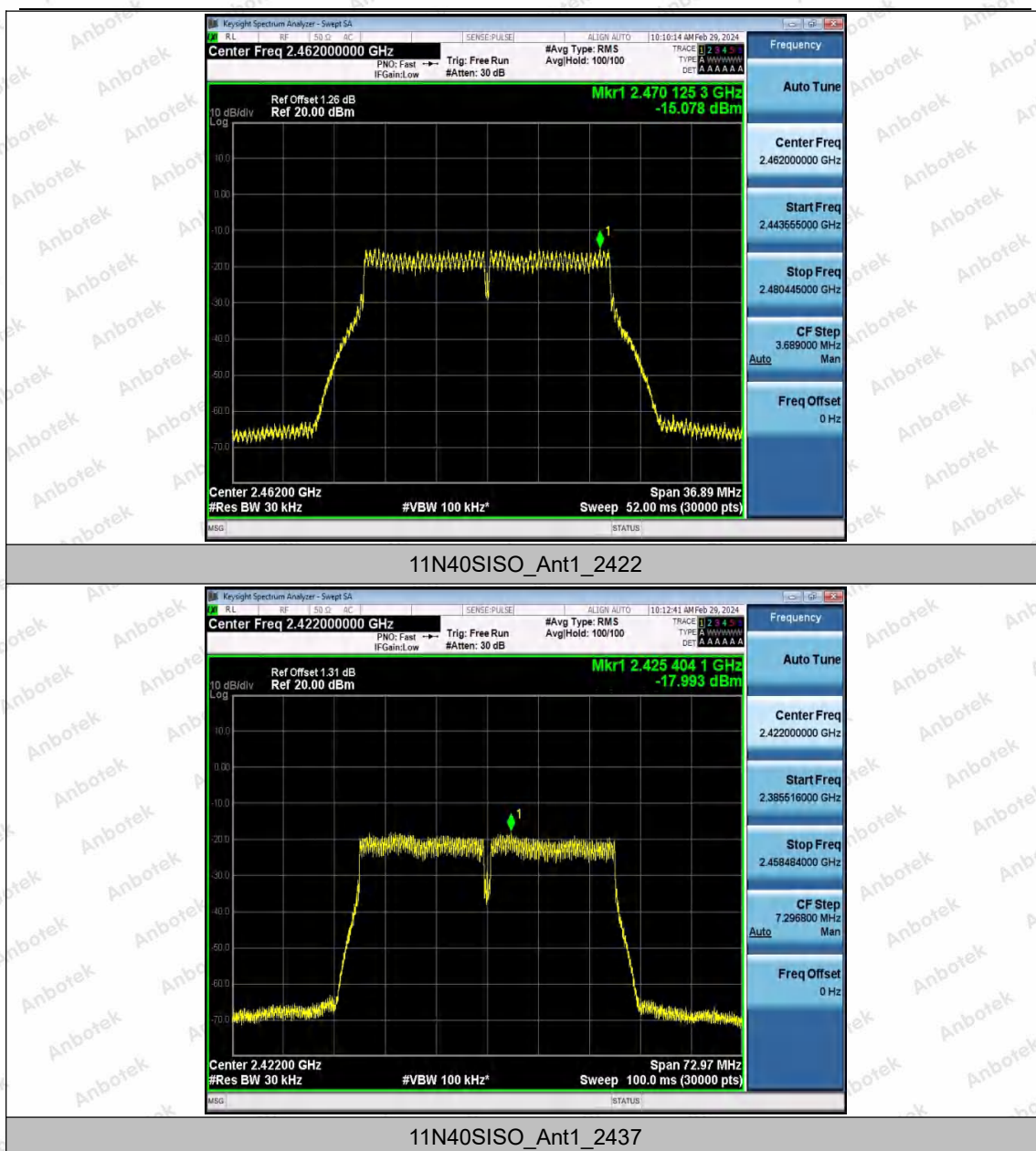
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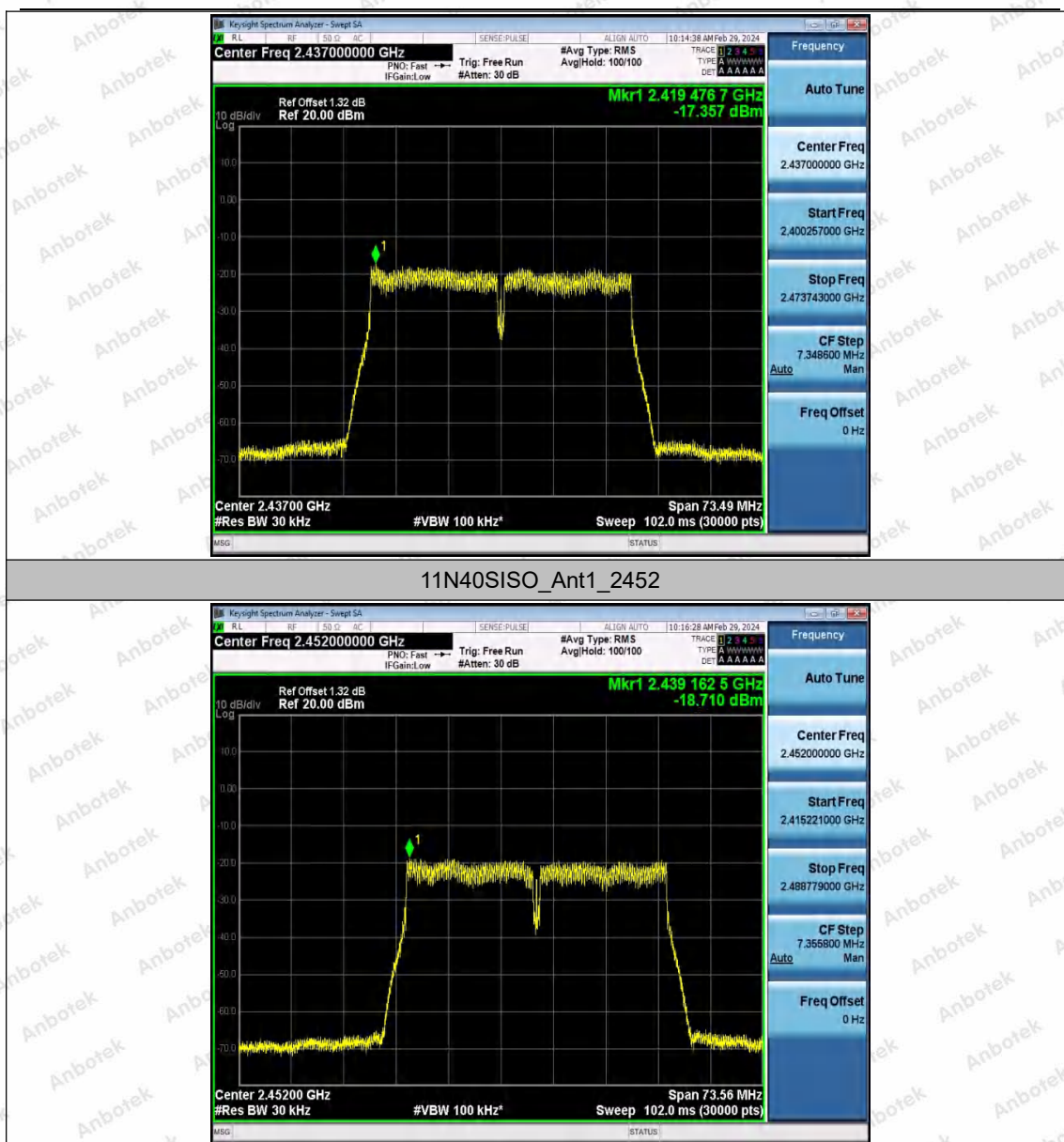
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Appendix E: Band edge measurements

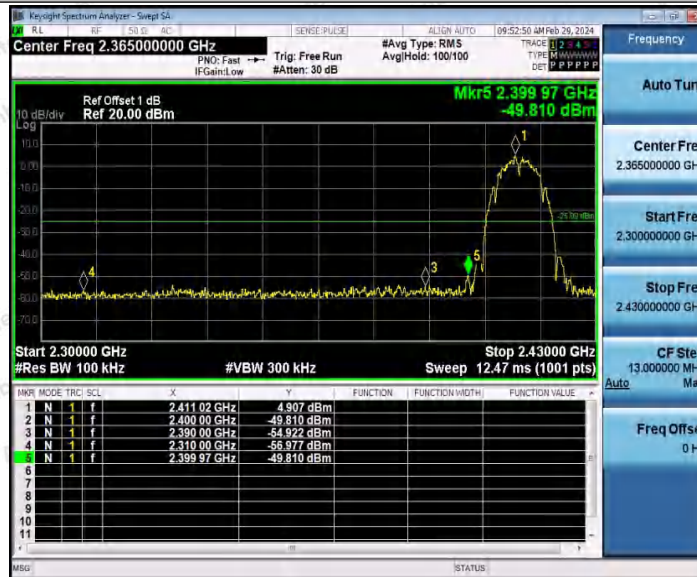
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.91	-49.81	≤-25.09	PASS
		High	2462	4.16	-53.86	≤-25.84	PASS
11G	Ant1	Low	2412	-1.53	-36.93	≤-31.53	PASS
		High	2462	-2.44	-51.15	≤-32.44	PASS
11N20SISO	Ant1	Low	2412	-2.06	-42.04	≤-32.06	PASS
		High	2462	-0.38	-49.22	≤-30.38	PASS
11N40SISO	Ant1	Low	2422	-3.32	-41.51	≤-33.32	PASS
		High	2452	-3.69	-48.85	≤-33.69	PASS

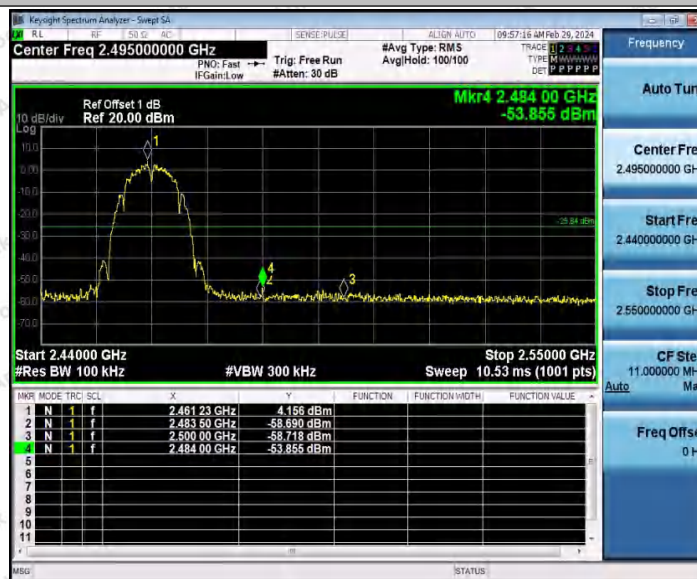


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

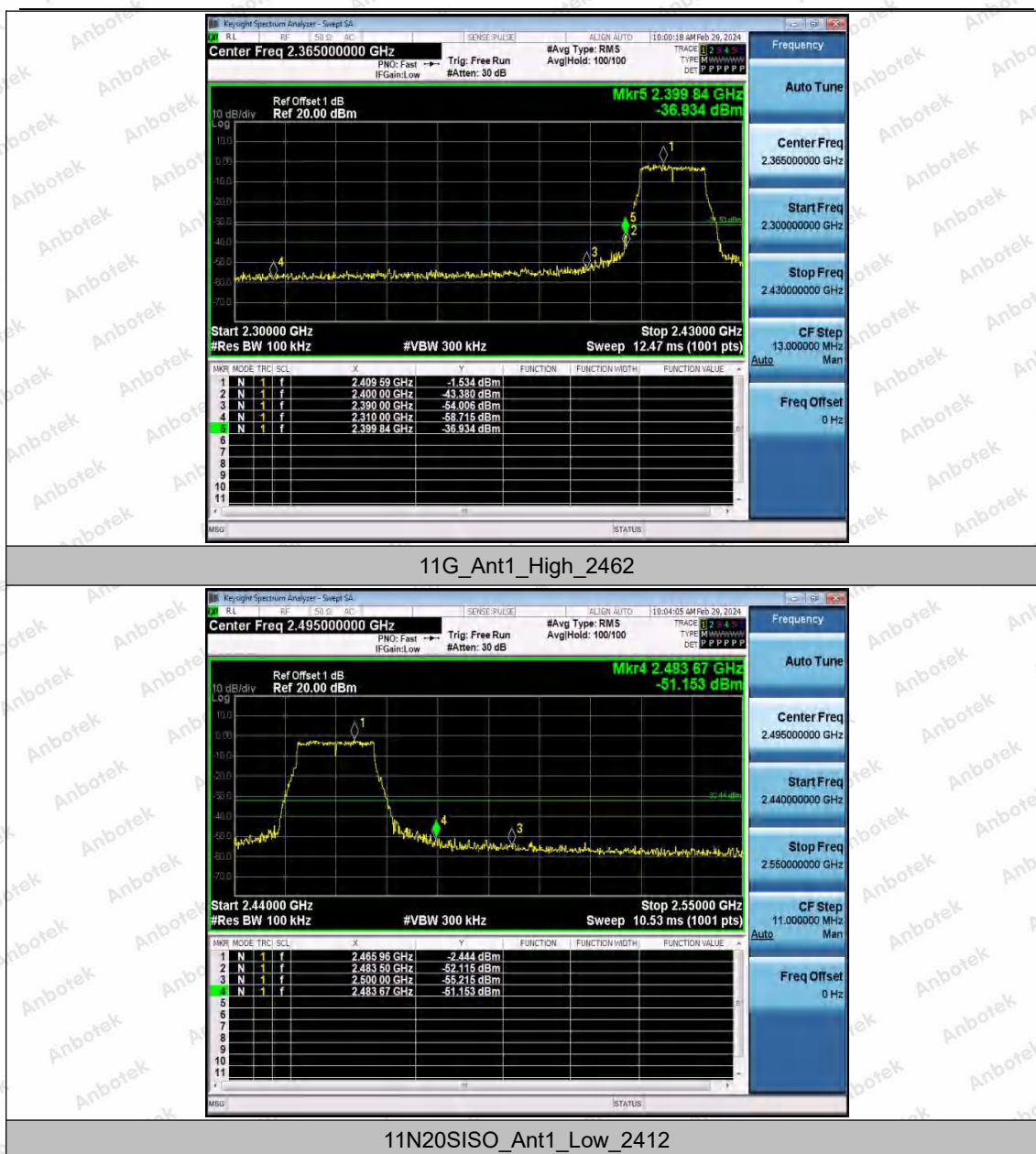
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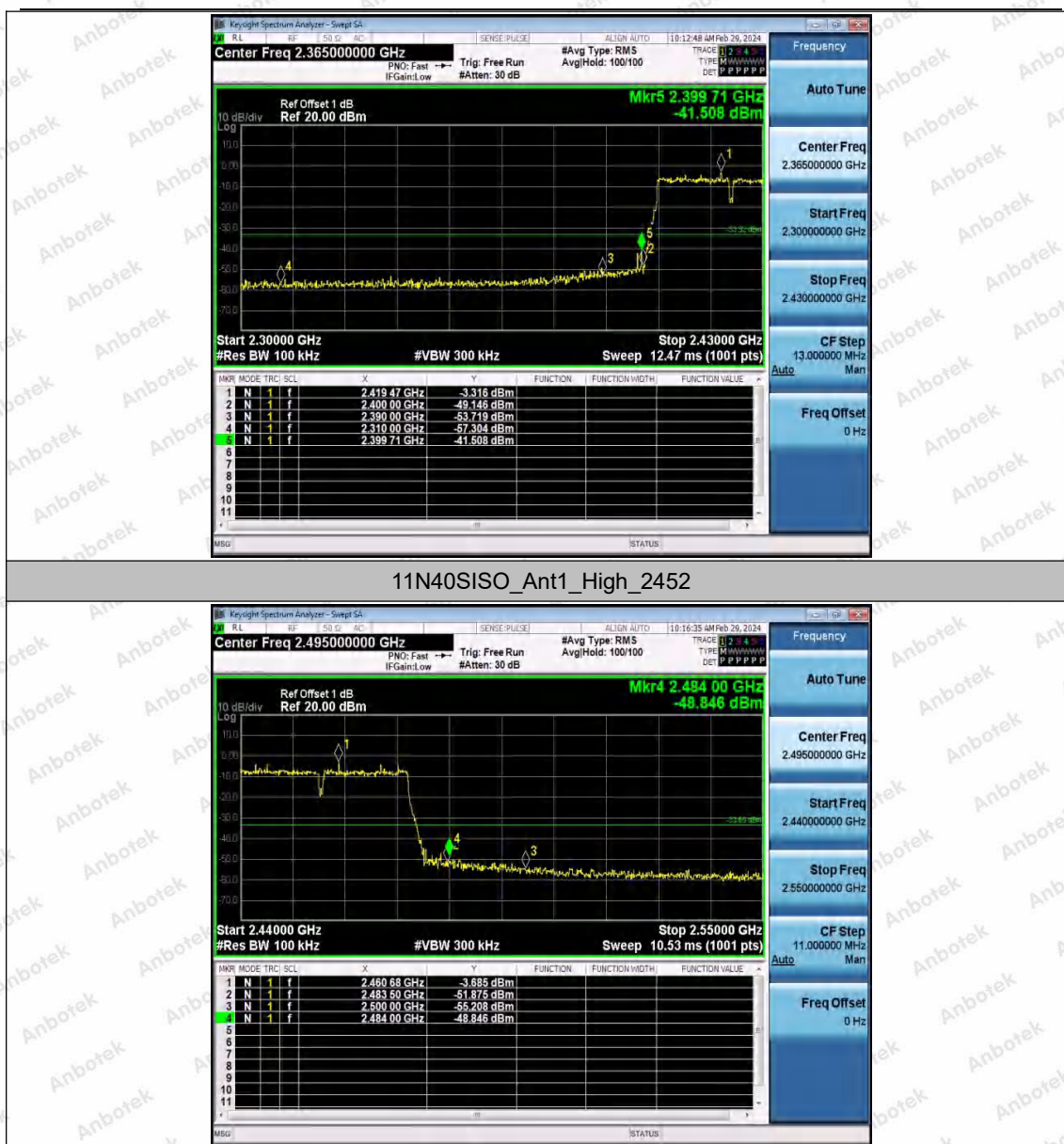
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.74	3.74	---	PASS
			30~1000	3.74	-66.45	≤-26.26	PASS
			1000~26500	3.74	-50.61	≤-26.26	PASS
		2437	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-66.85	≤-27.49	PASS
			1000~26500	2.51	-50.69	≤-27.49	PASS
		2462	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-65.97	≤-27.49	PASS
			1000~26500	2.51	-50.51	≤-27.49	PASS
11G	Ant1	2412	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-66.57	≤-30.55	PASS
			1000~26500	-0.55	-52.14	≤-30.55	PASS
		2437	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-66.64	≤-30.54	PASS
			1000~26500	-0.54	-52.54	≤-30.54	PASS
		2462	Reference	-2.31	-2.31	---	PASS
			30~1000	-2.31	-67.5	≤-32.31	PASS
			1000~26500	-2.31	-51.51	≤-32.31	PASS
11N20SISO	Ant1	2412	Reference	-2.70	-2.70	---	PASS
			30~1000	-2.70	-67.18	≤-32.7	PASS
			1000~26500	-2.70	-50.99	≤-32.7	PASS
		2437	Reference	-2.97	-2.97	---	PASS
			30~1000	-2.97	-67.19	≤-32.97	PASS
			1000~26500	-2.97	-52.34	≤-32.97	PASS
		2462	Reference	-2.71	-2.71	---	PASS
			30~1000	-2.71	-66.59	≤-32.71	PASS
			1000~26500	-2.71	-42.94	≤-32.71	PASS
11N40SISO	Ant1	2422	Reference	-5.72	-5.72	---	PASS
			30~1000	-5.72	-66.72	≤-35.72	PASS
			1000~26500	-5.72	-52.73	≤-35.72	PASS
		2437	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-65.87	≤-32.67	PASS
			1000~26500	-2.67	-52.15	≤-32.67	PASS
		2452	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-66.2	≤-34.48	PASS

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			1000~26500	-4.48	-51	≤-34.48	PASS
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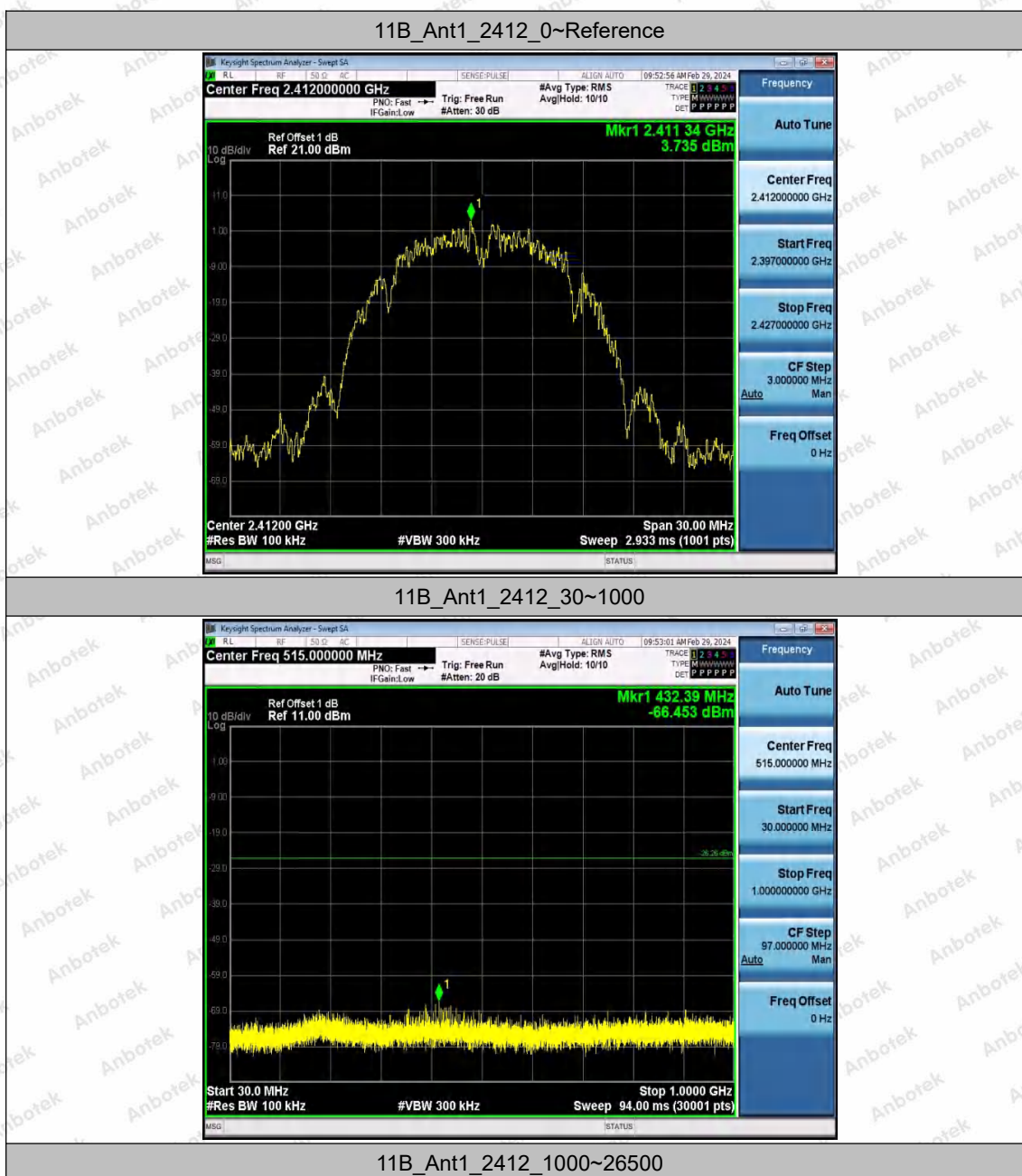
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Test Graphs



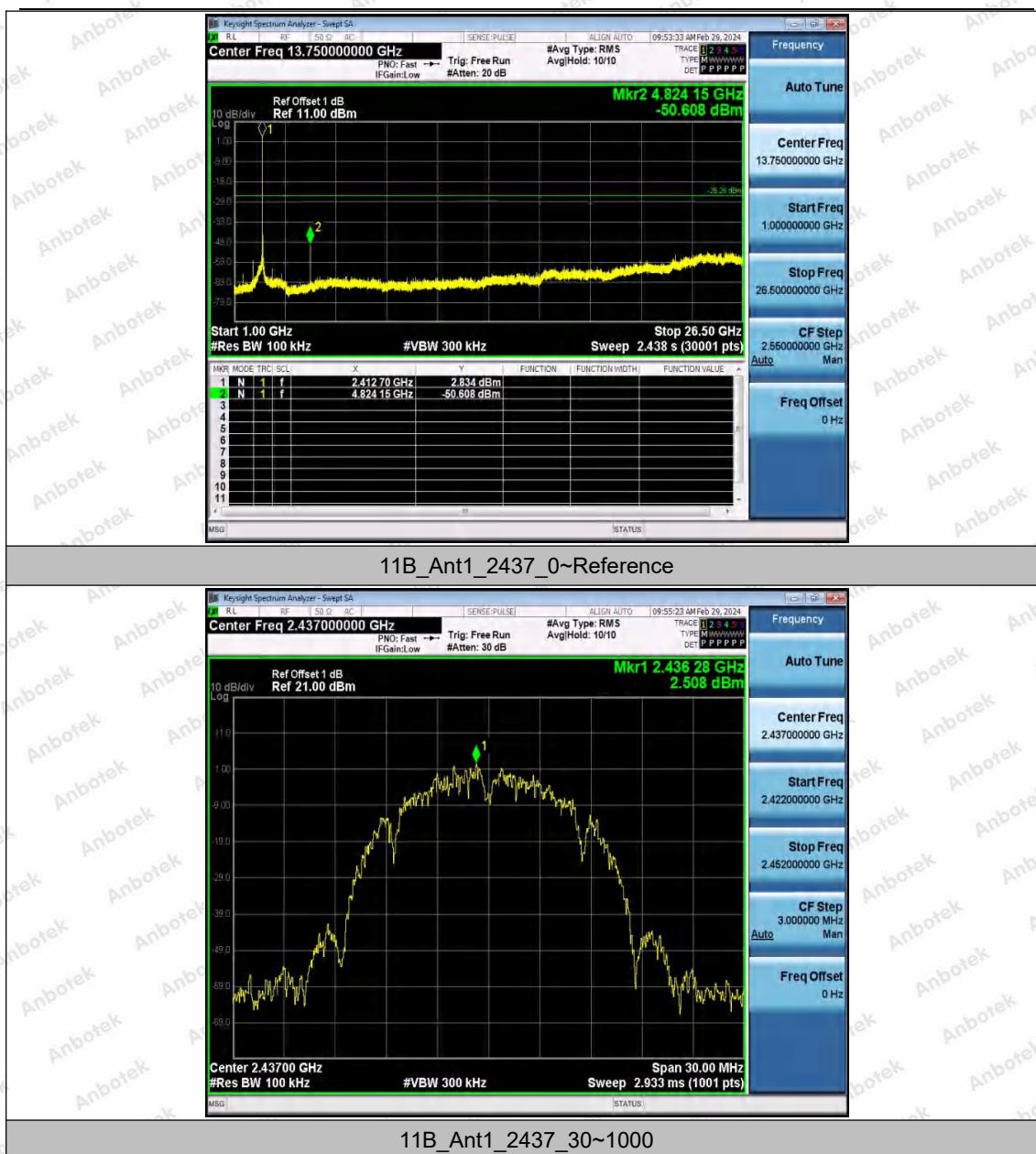
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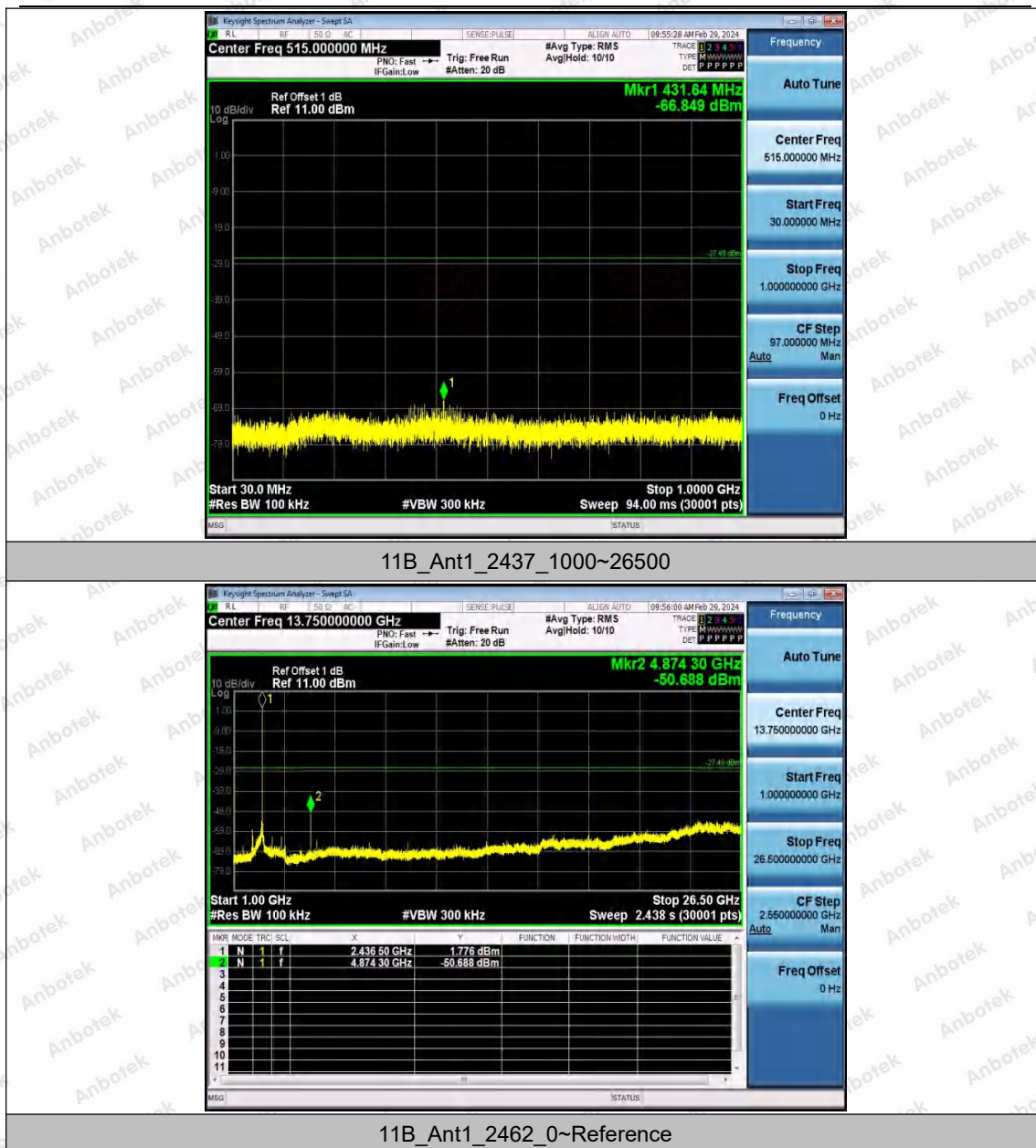
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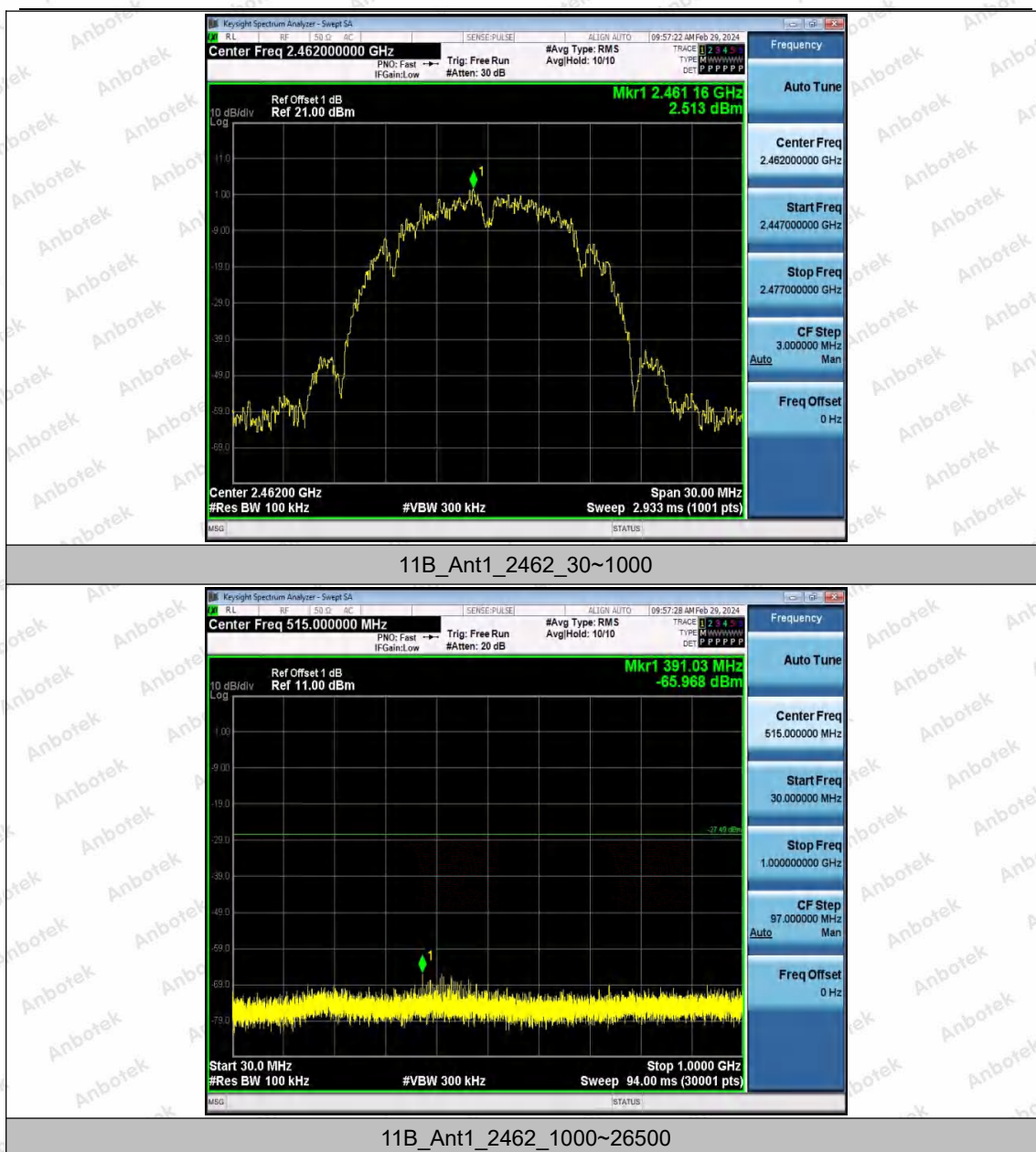
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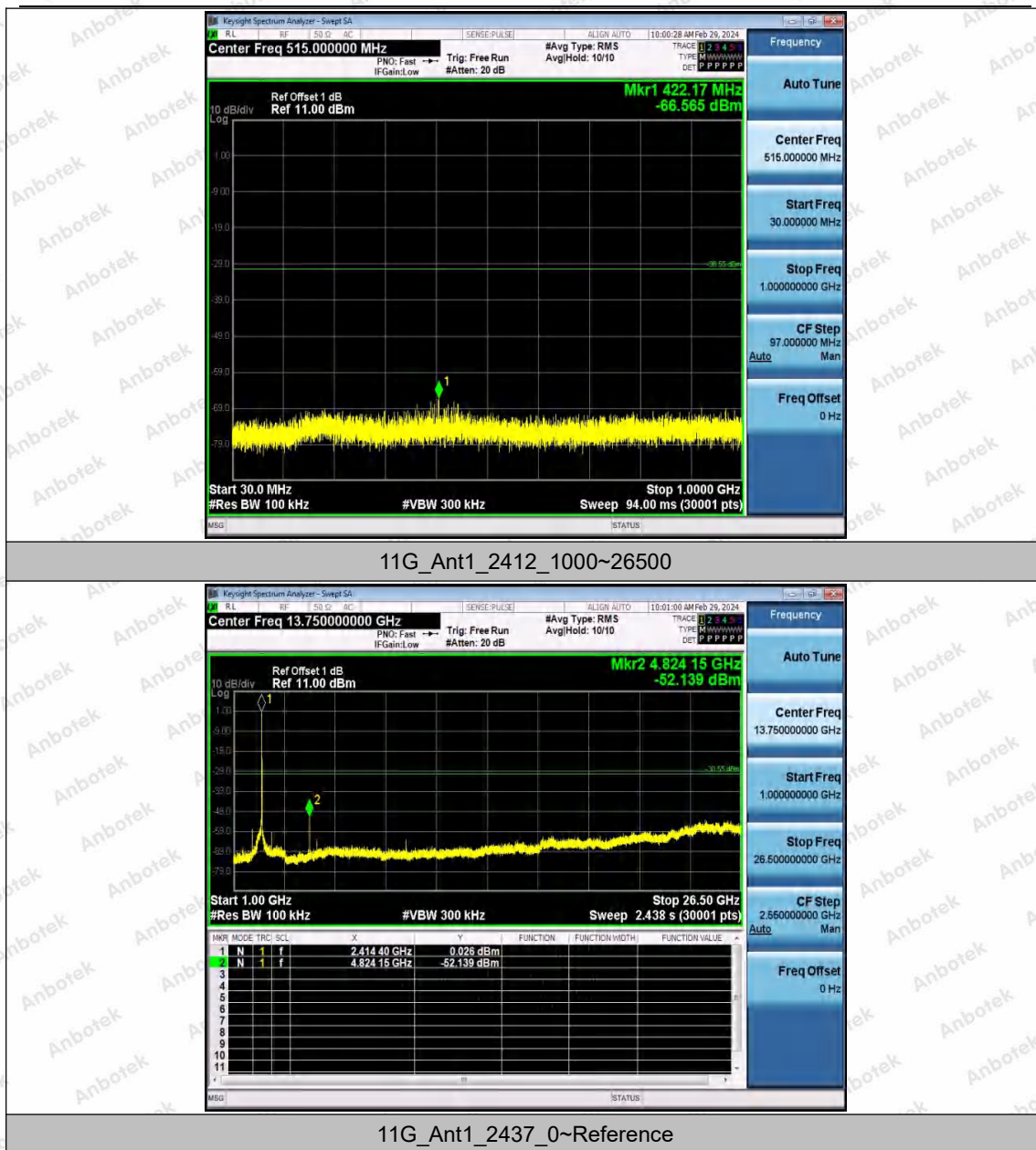


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11G_Ant1_2412_30~1000





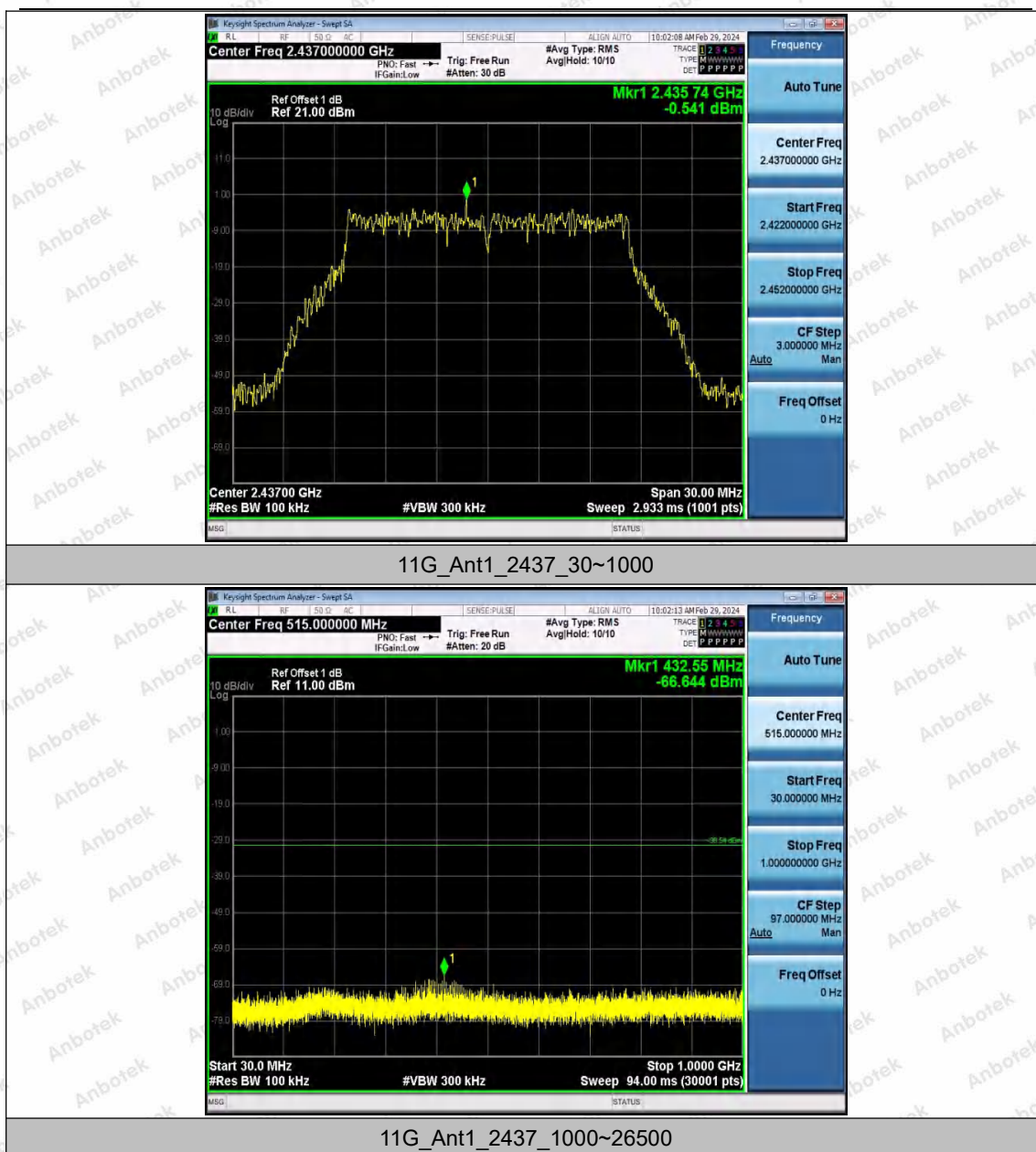
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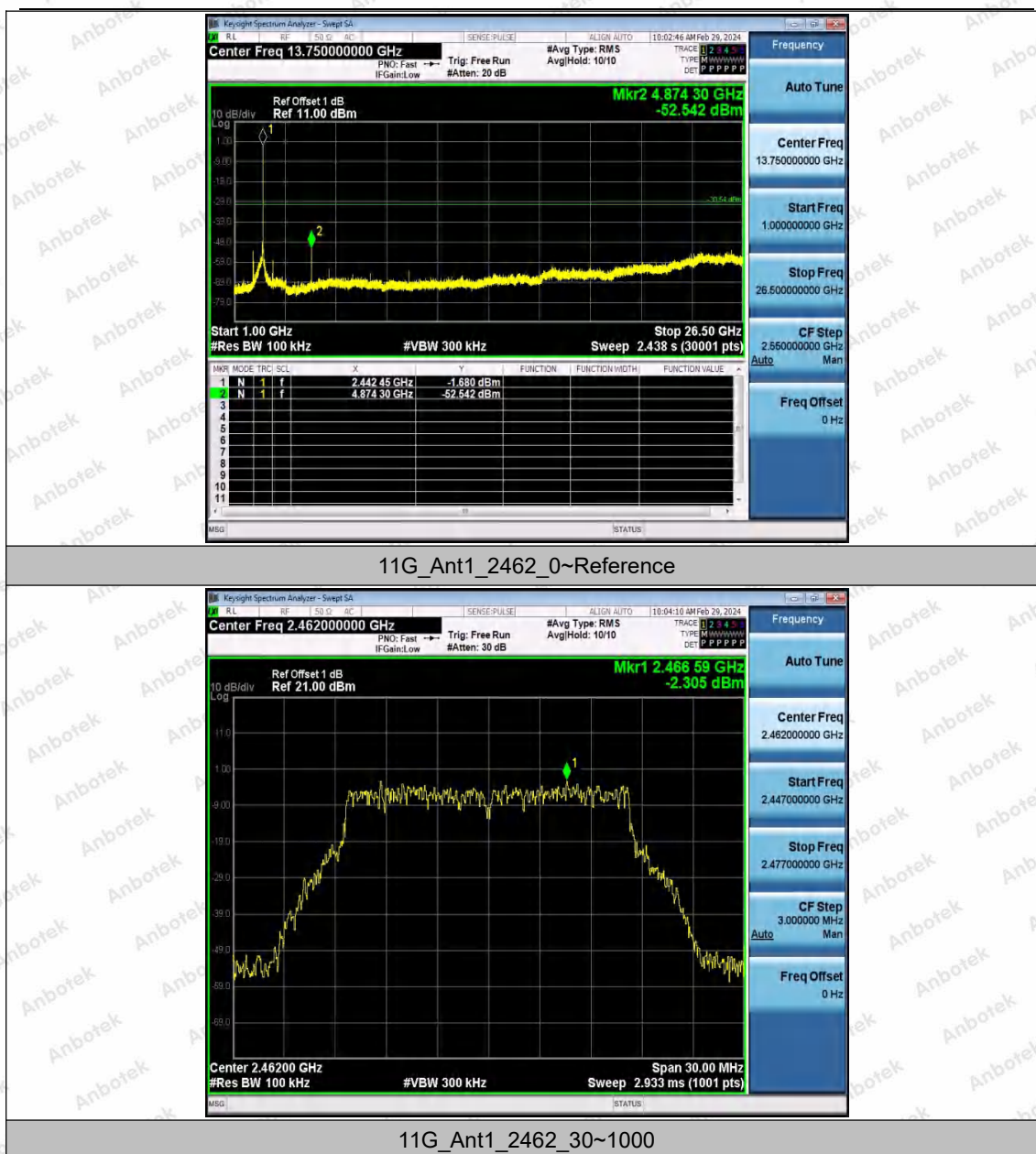
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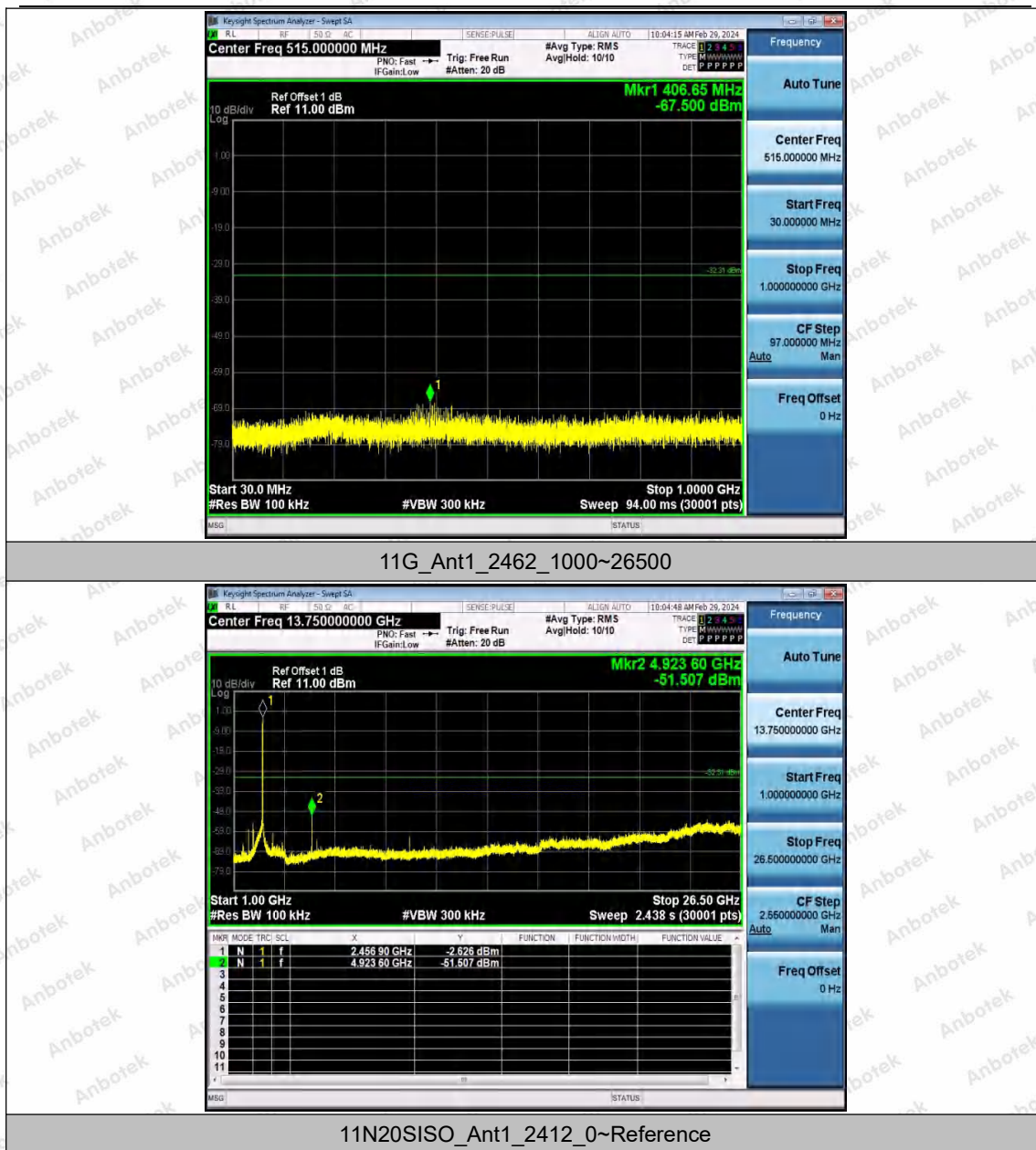
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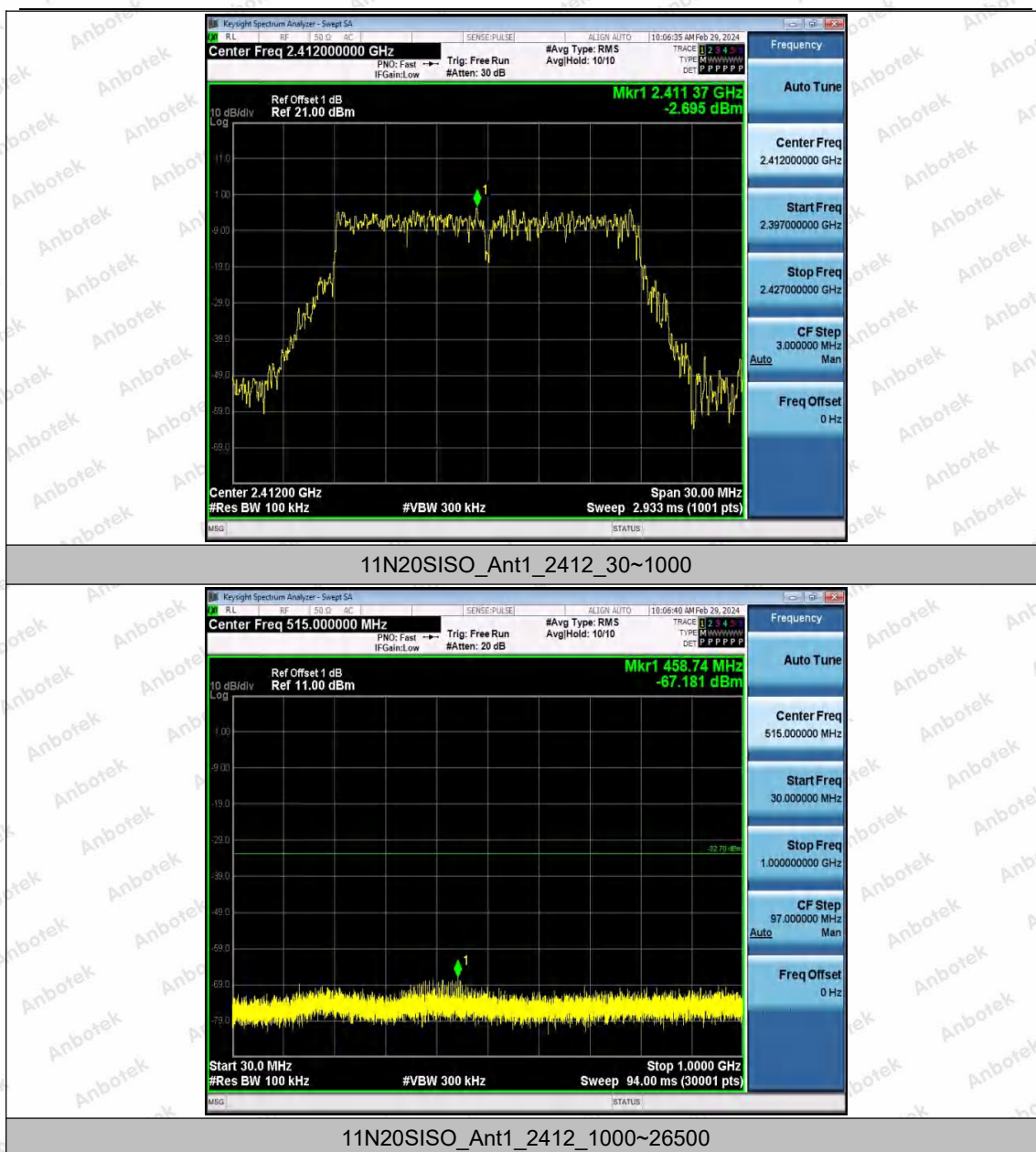


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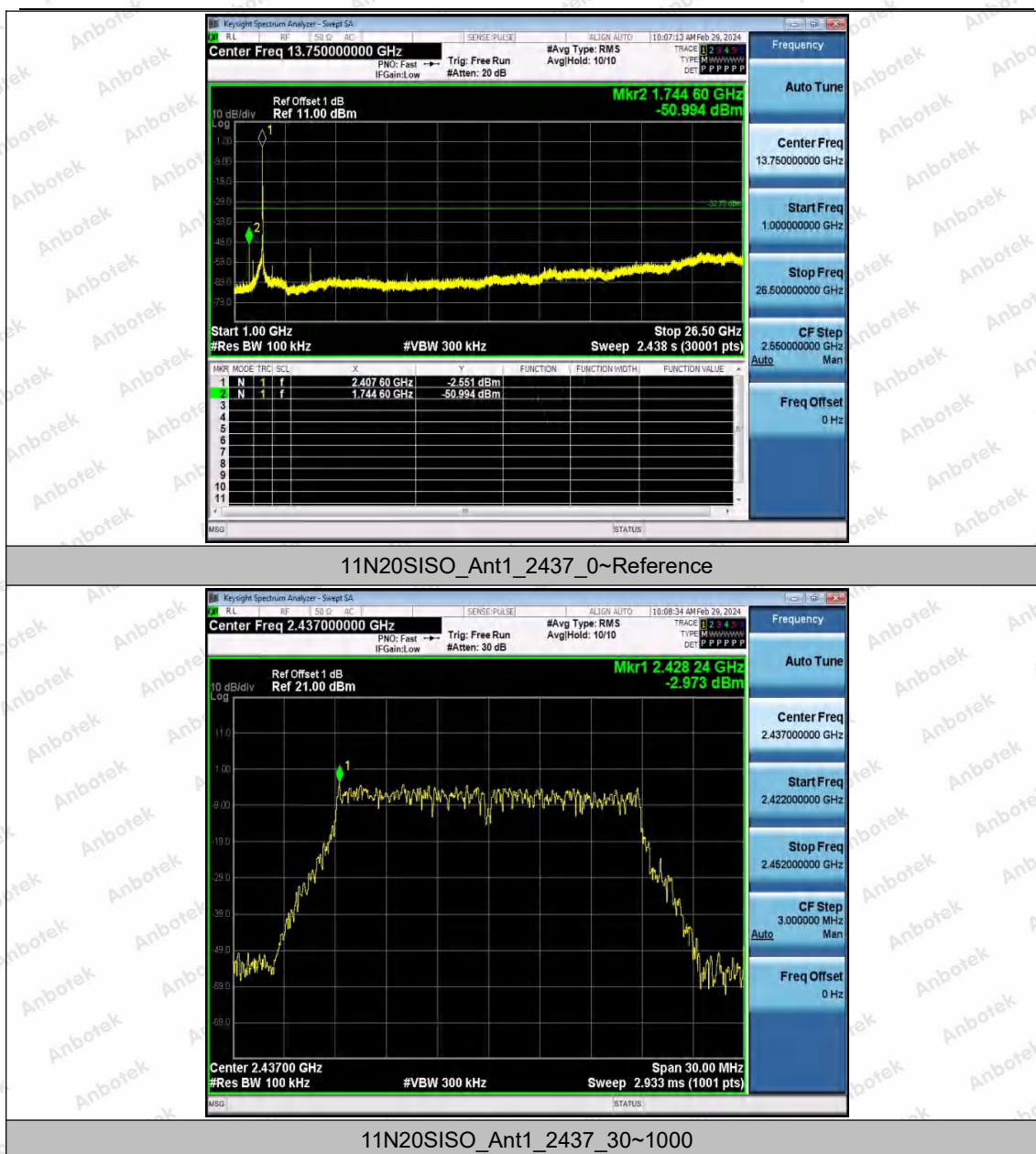
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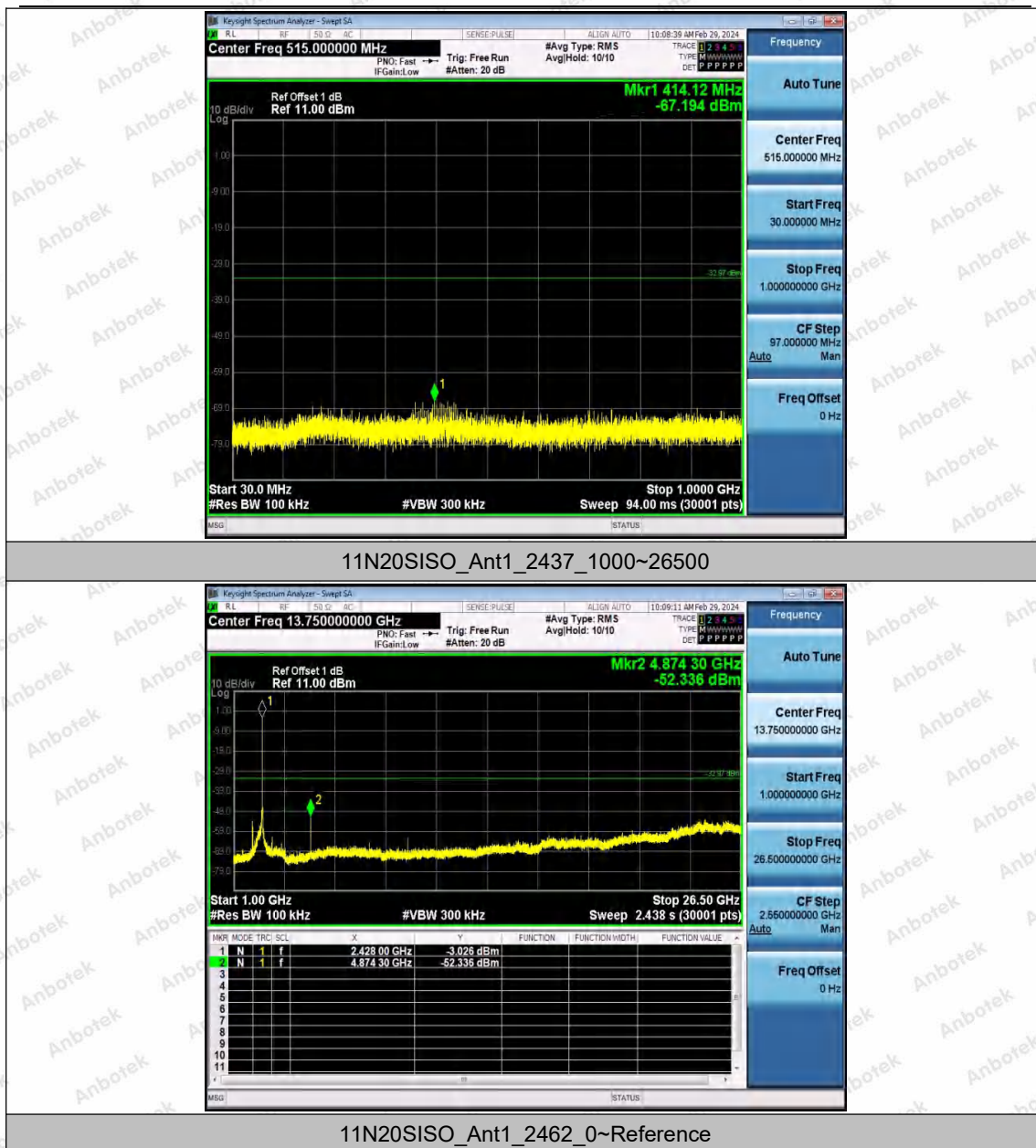
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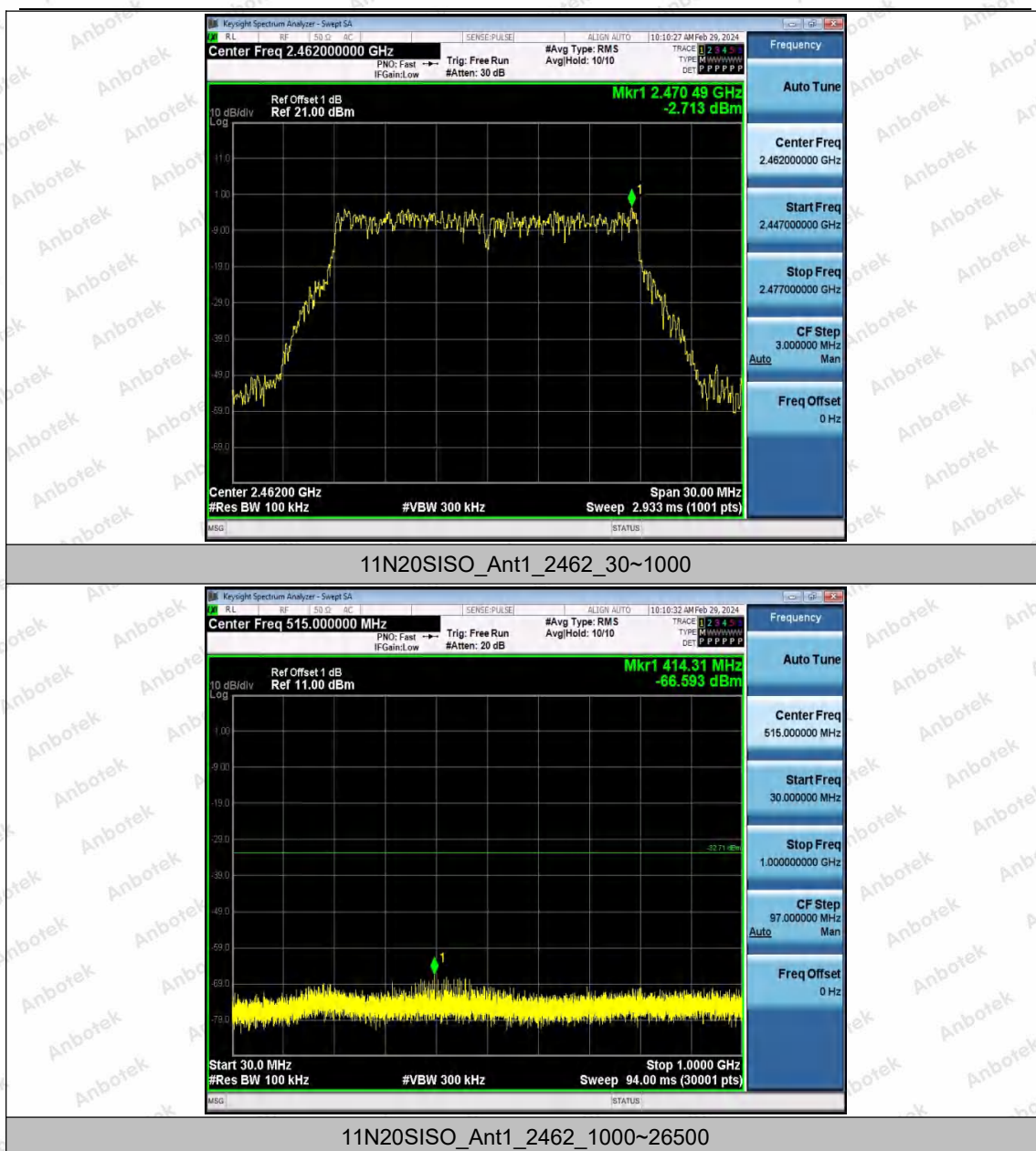
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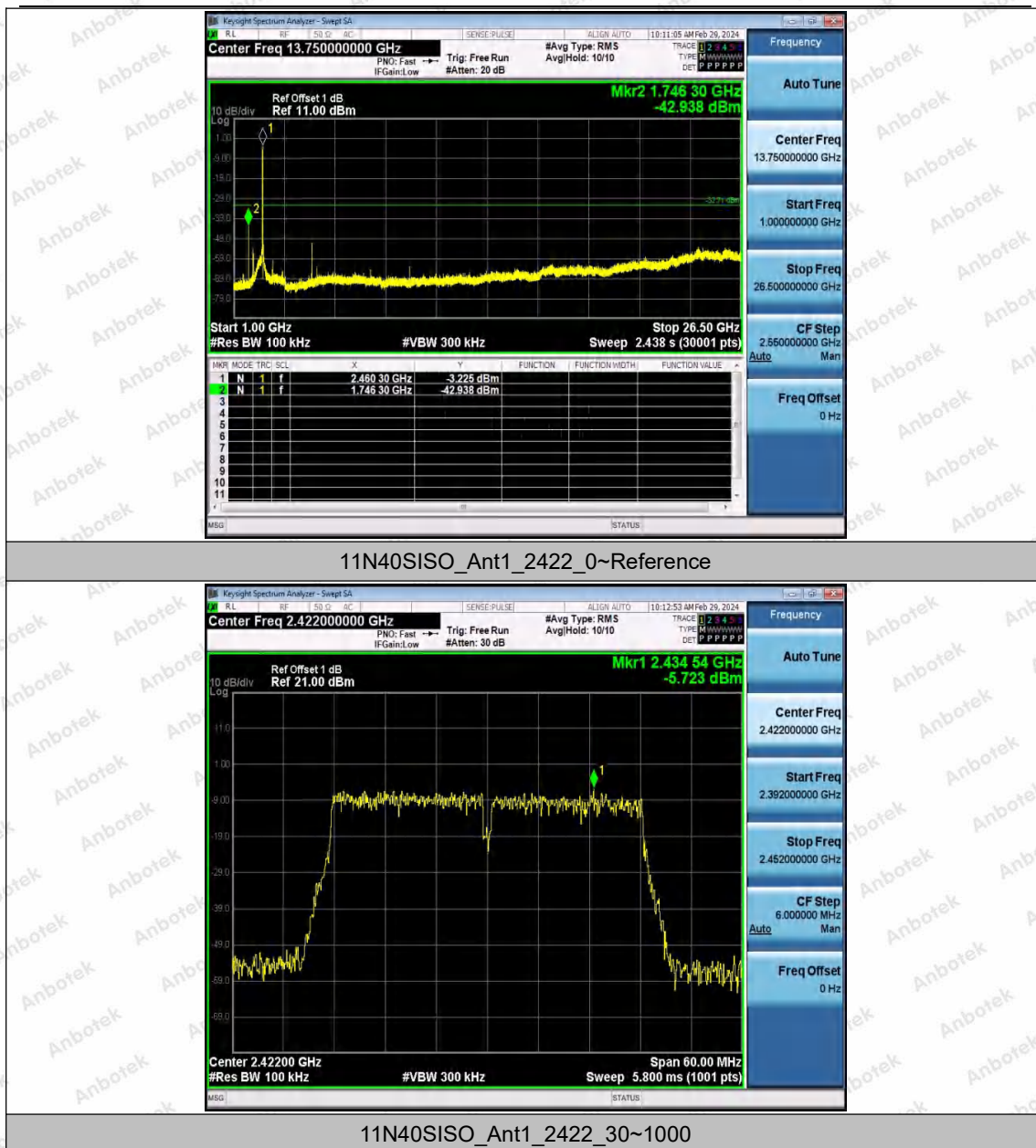
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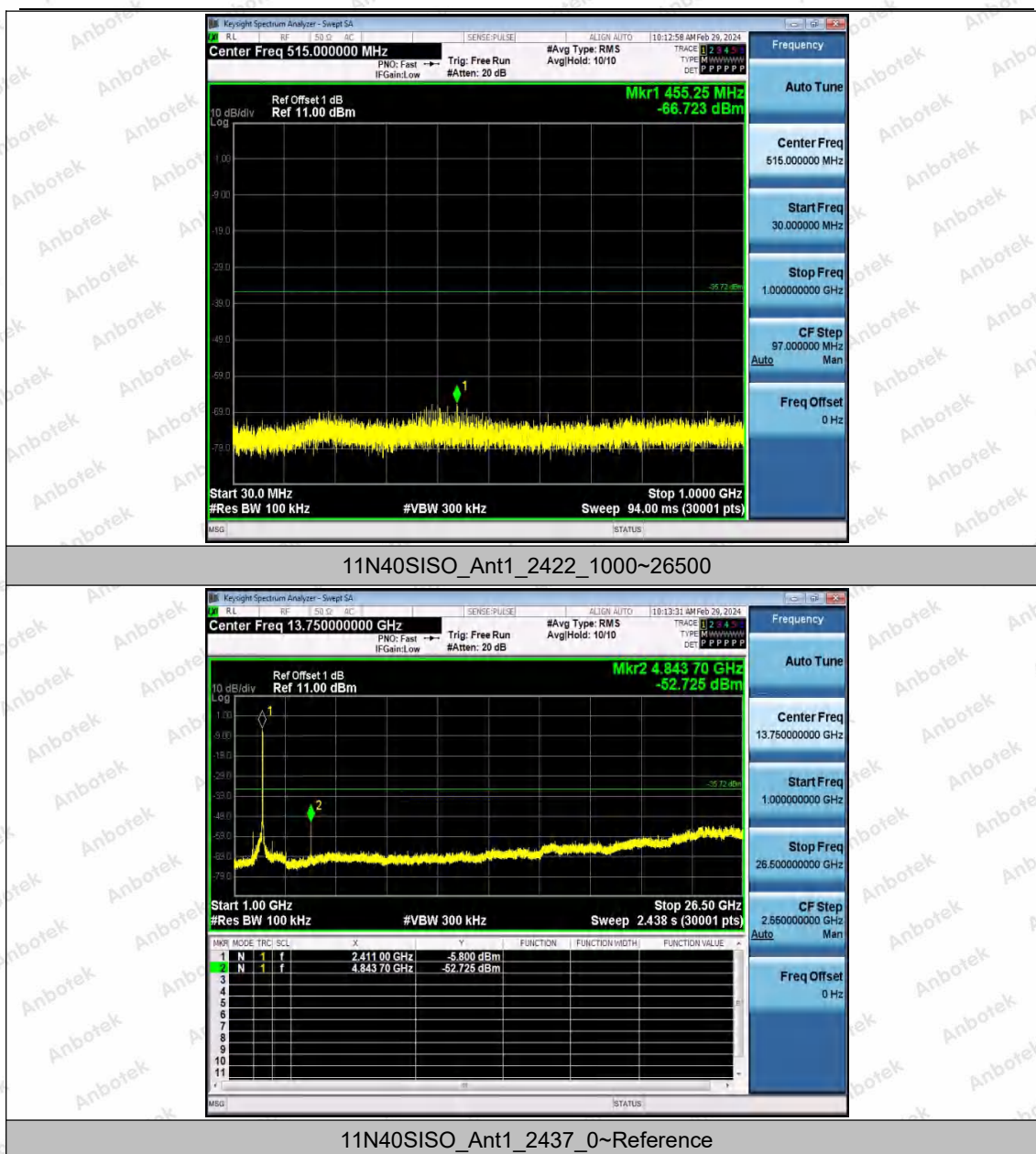
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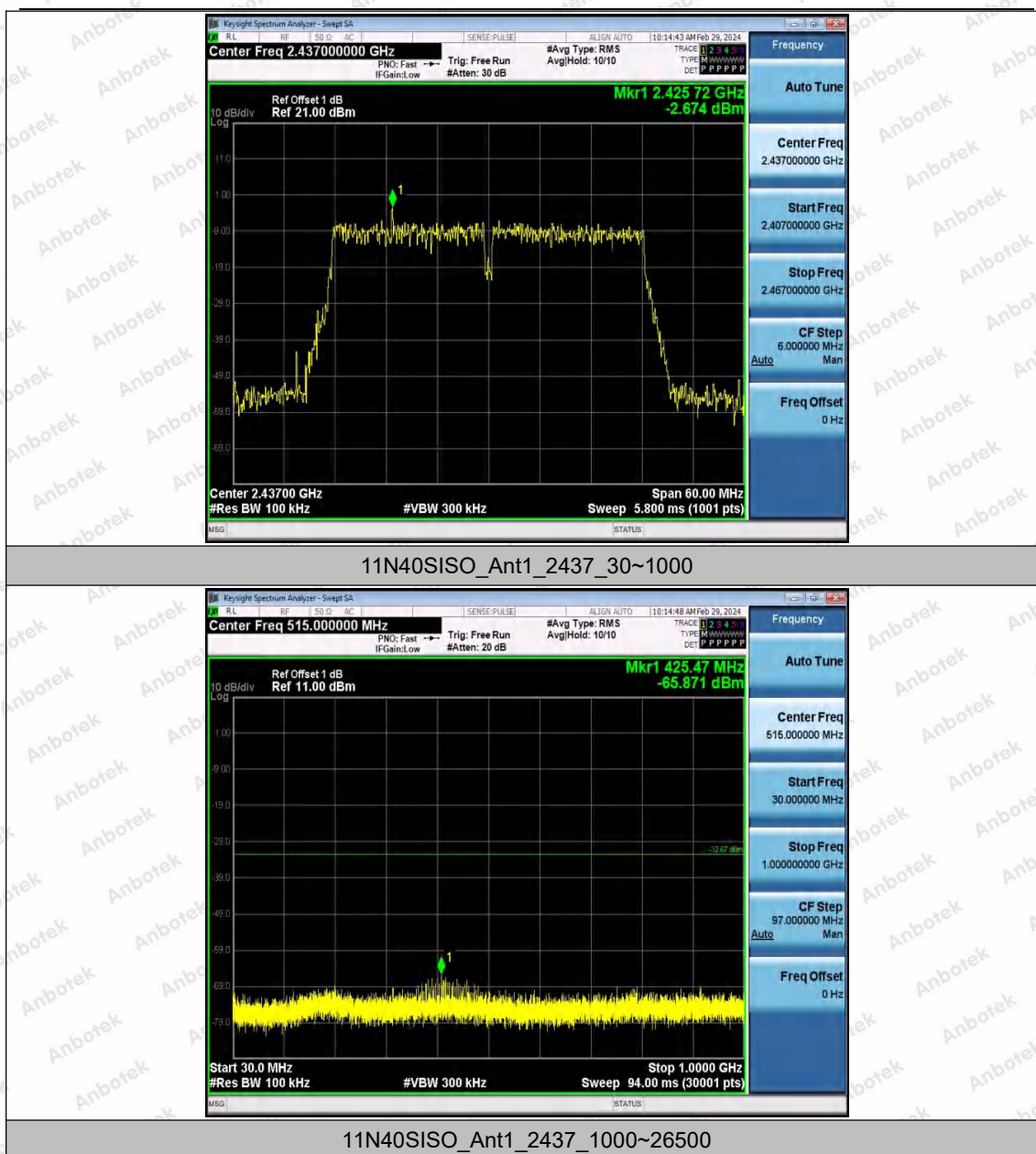
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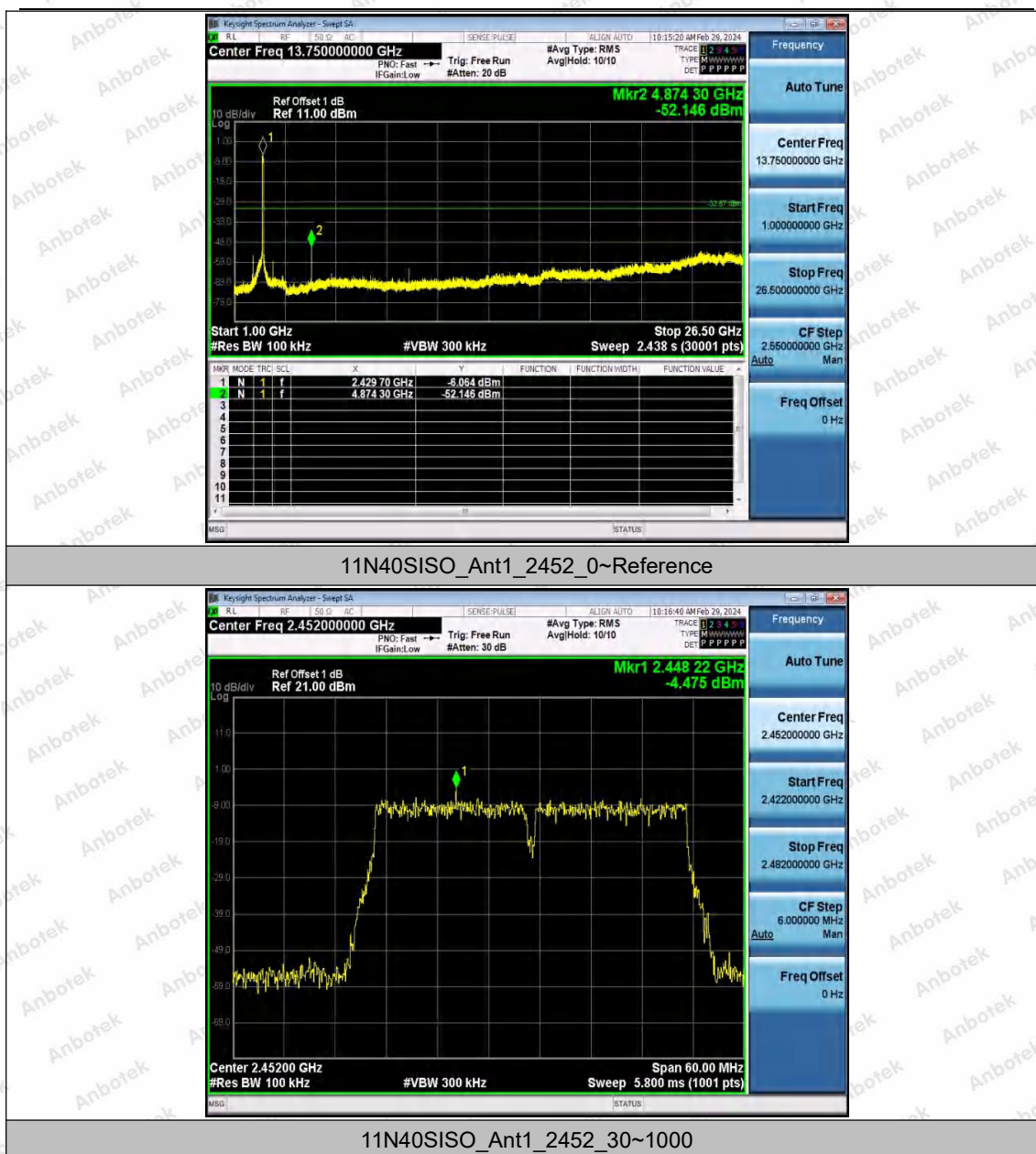
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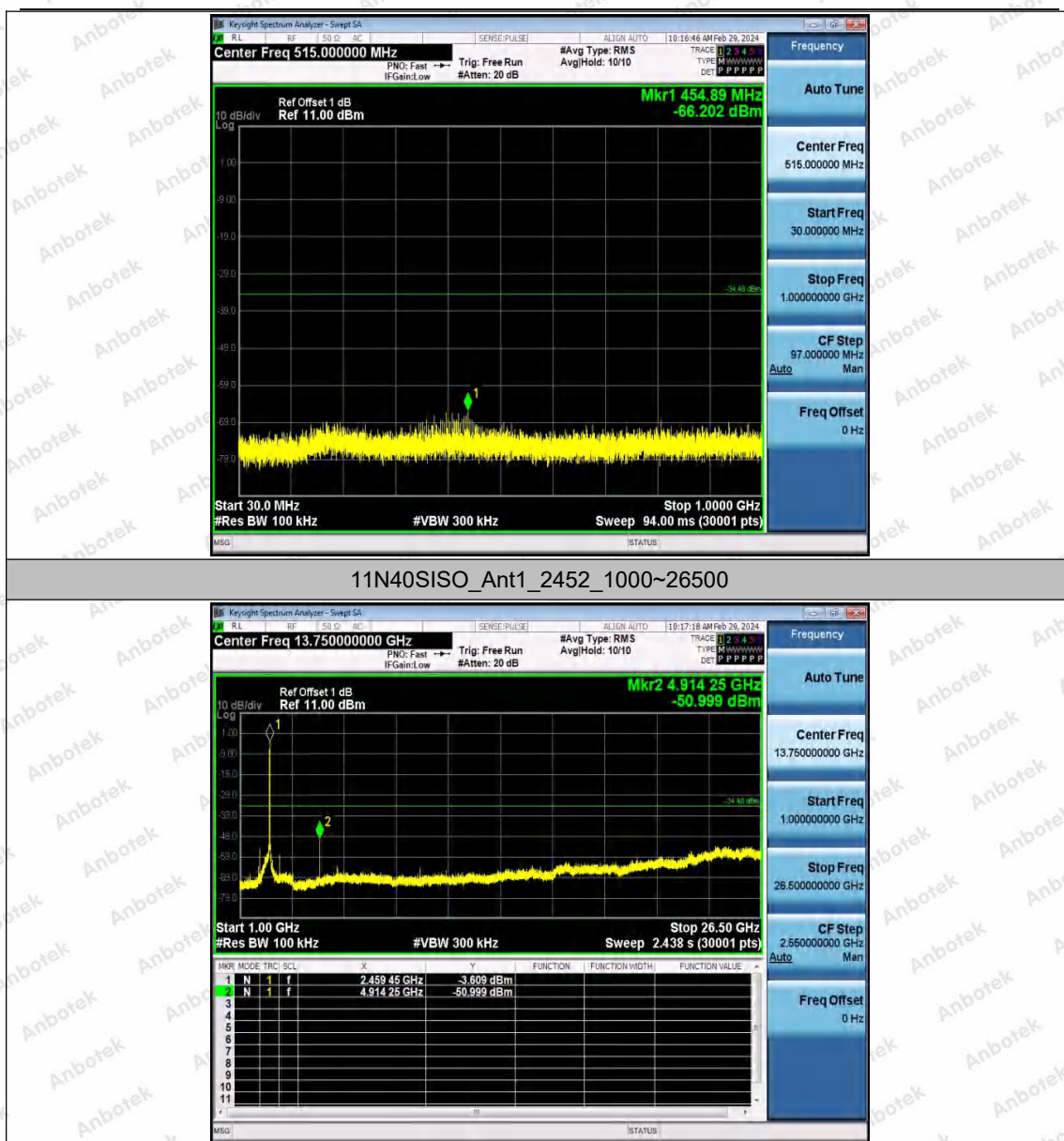
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Appendix G: Duty Cycle

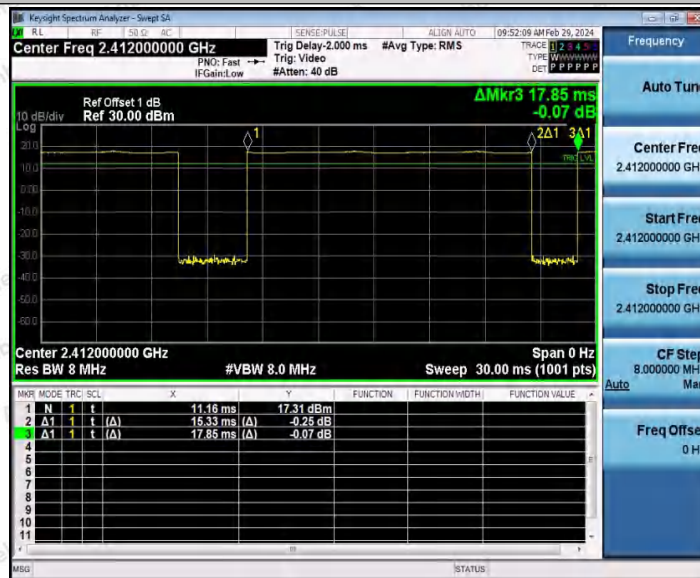
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	15.33	17.85	85.88	0.66
		2437	15.33	20.67	74.17	1.30
		2462	15.33	20.43	75.04	1.25
11G	Ant1	2412	5.11	5.42	94.28	0.26
		2437	5.10	5.41	94.27	0.26
		2462	5.11	5.43	94.11	0.26
11N20SISO	Ant1	2412	4.73	5.12	92.38	0.34
		2437	4.73	5.33	88.74	0.52
		2462	4.74	5.03	94.23	0.26
11N40SISO	Ant1	2422	4.56	4.90	93.06	0.31
		2437	4.56	4.91	92.87	0.32
		2452	4.56	4.91	92.87	0.32



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

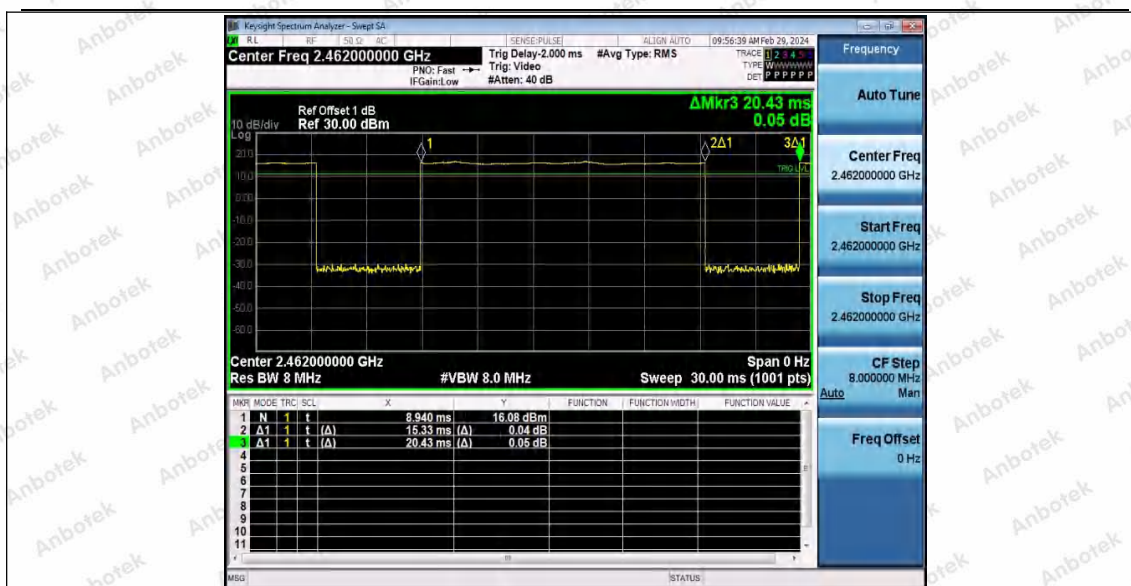
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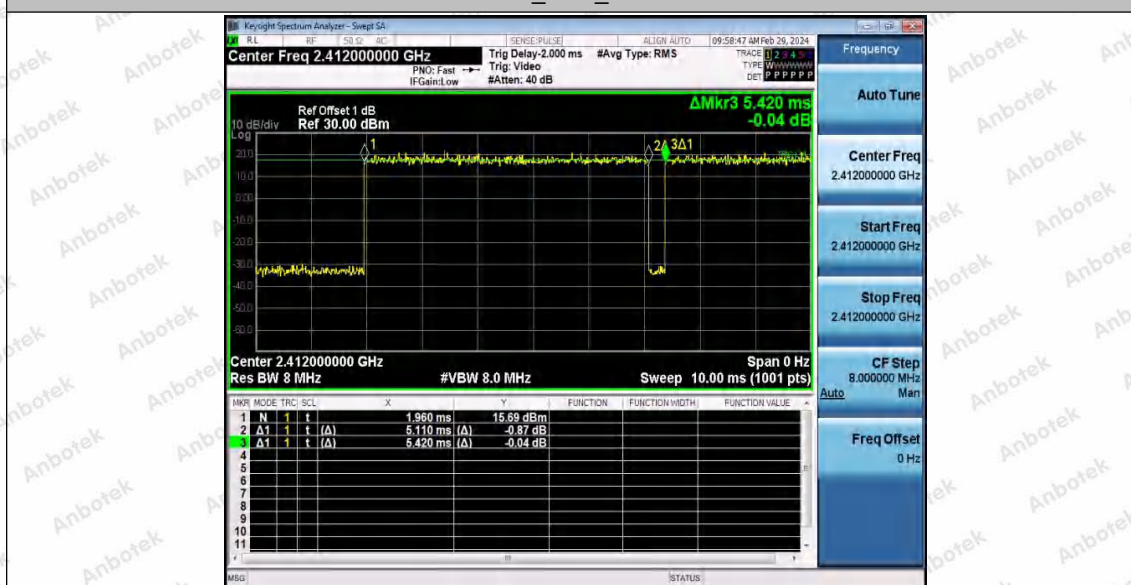


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11G_Ant1_2412



11G_Ant1_2437

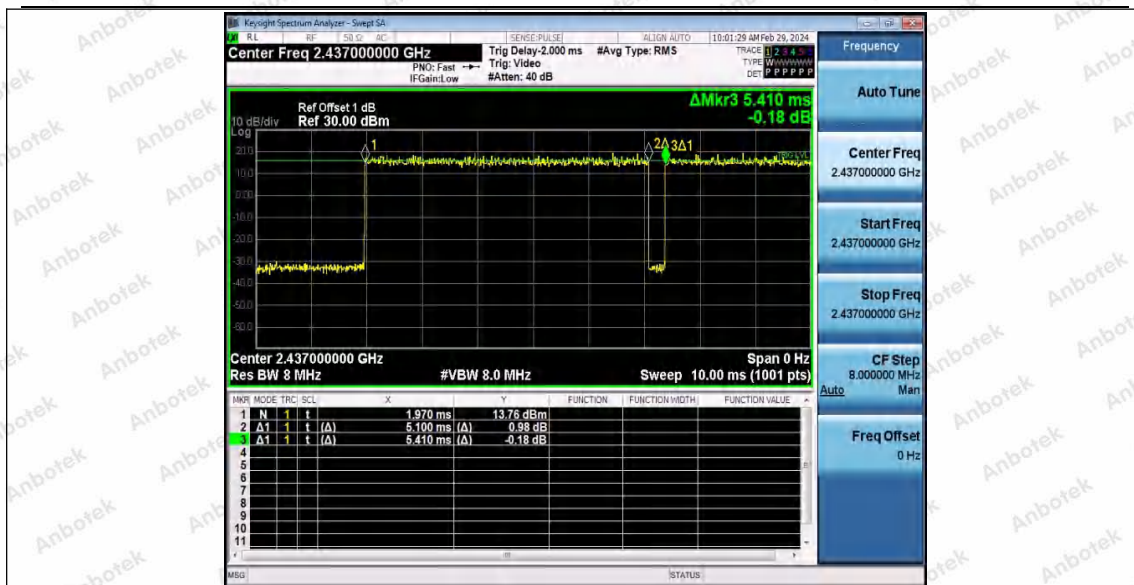
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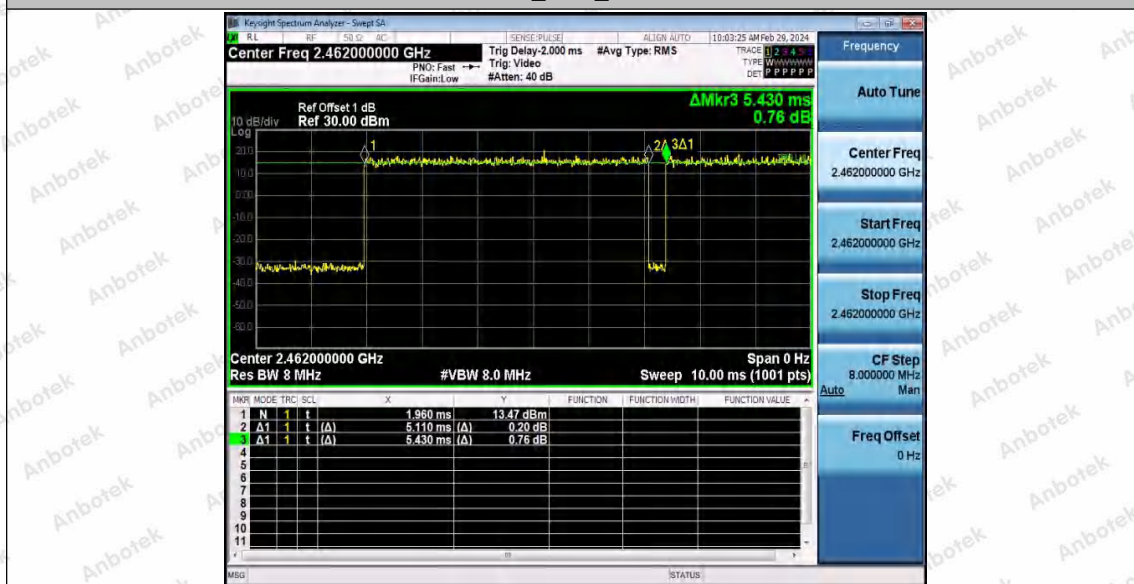


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11G_Ant1_2462



11N20SISO_Ant1_2412

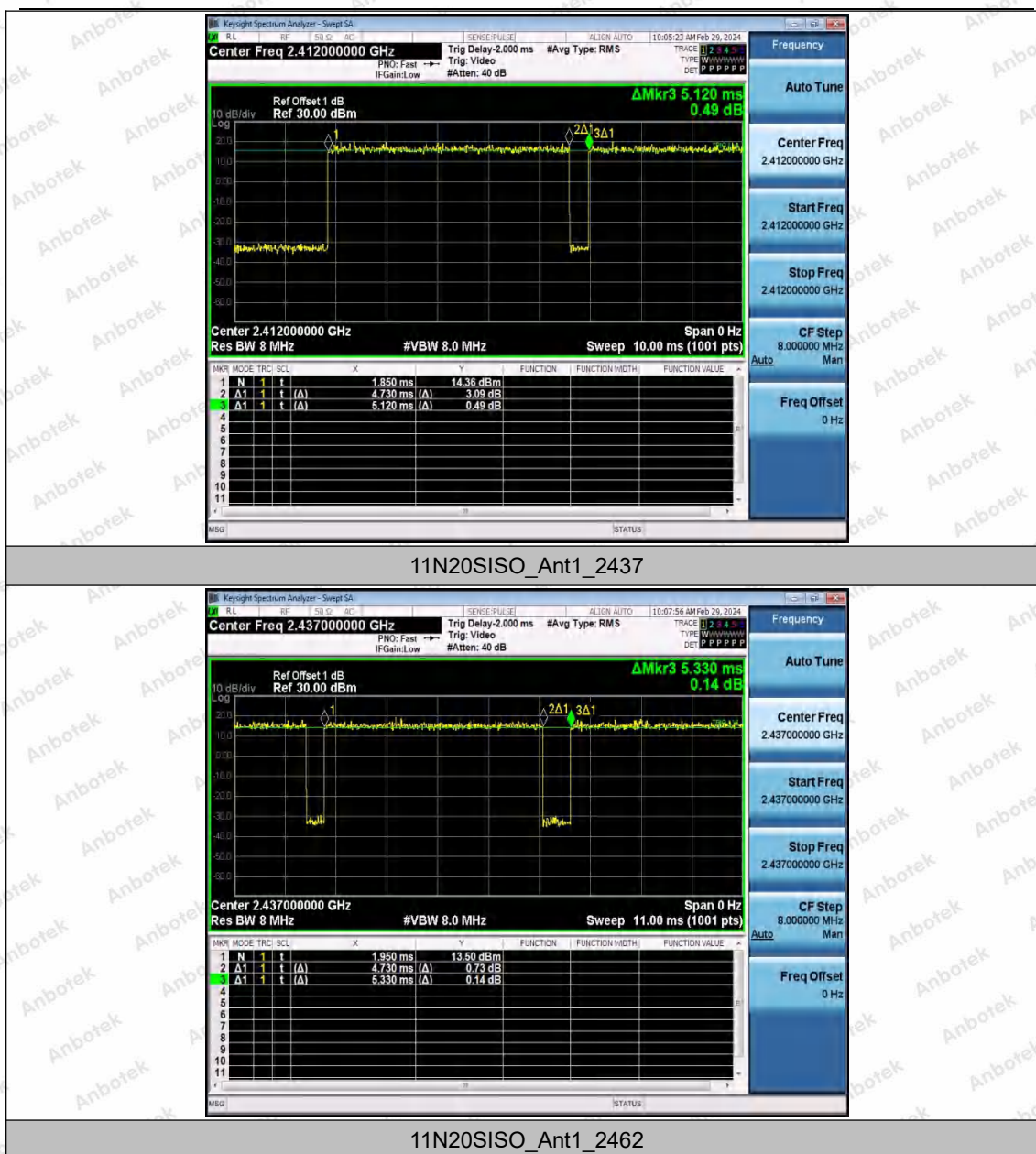
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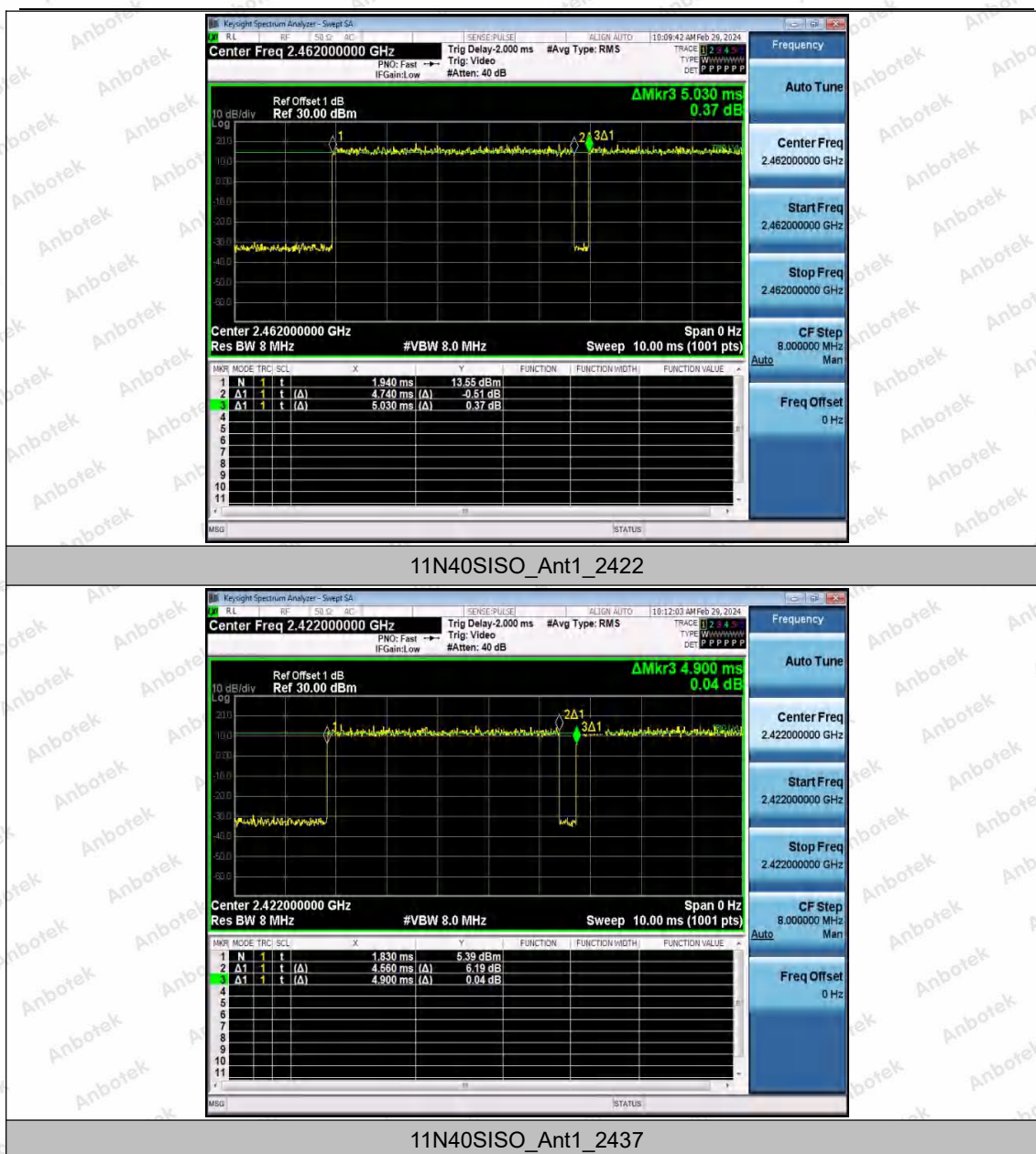
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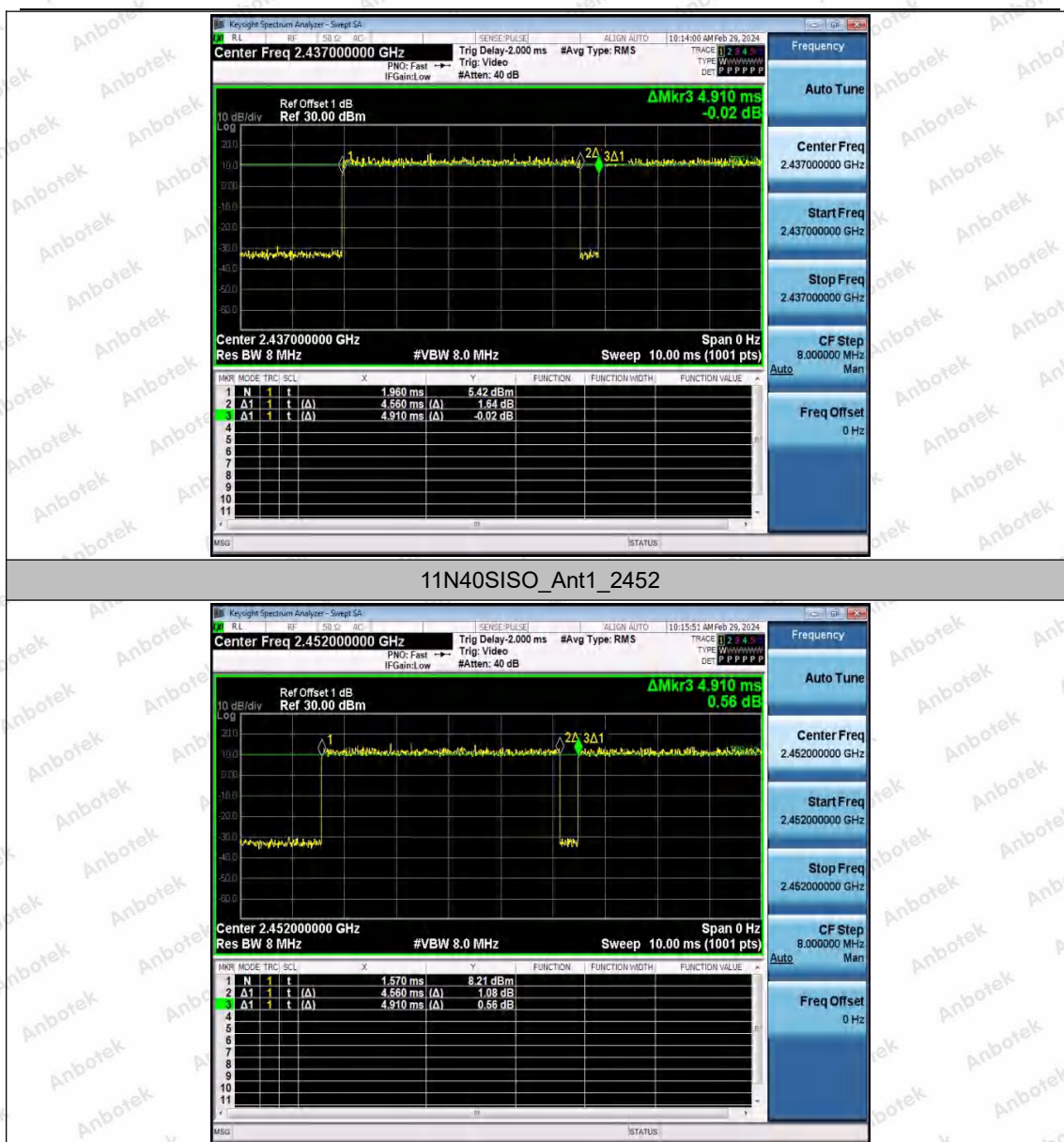
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