

Appendix Test Data

Report No.:	18220WC40019701	Test Sample No.:	1-2-2
Start Test Date:	2024.2.21	Finish Test Date:	2024.2.22
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	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	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.280	2403.840	2420.120	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.280	2453.840	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.120	2420.800	0.5	PASS
		2437	17.040	2428.480	2445.520	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.160	2439.760	0.5	PASS
		2437	36.080	2418.840	2454.920	0.5	PASS
		2452	35.360	2434.160	2469.520	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

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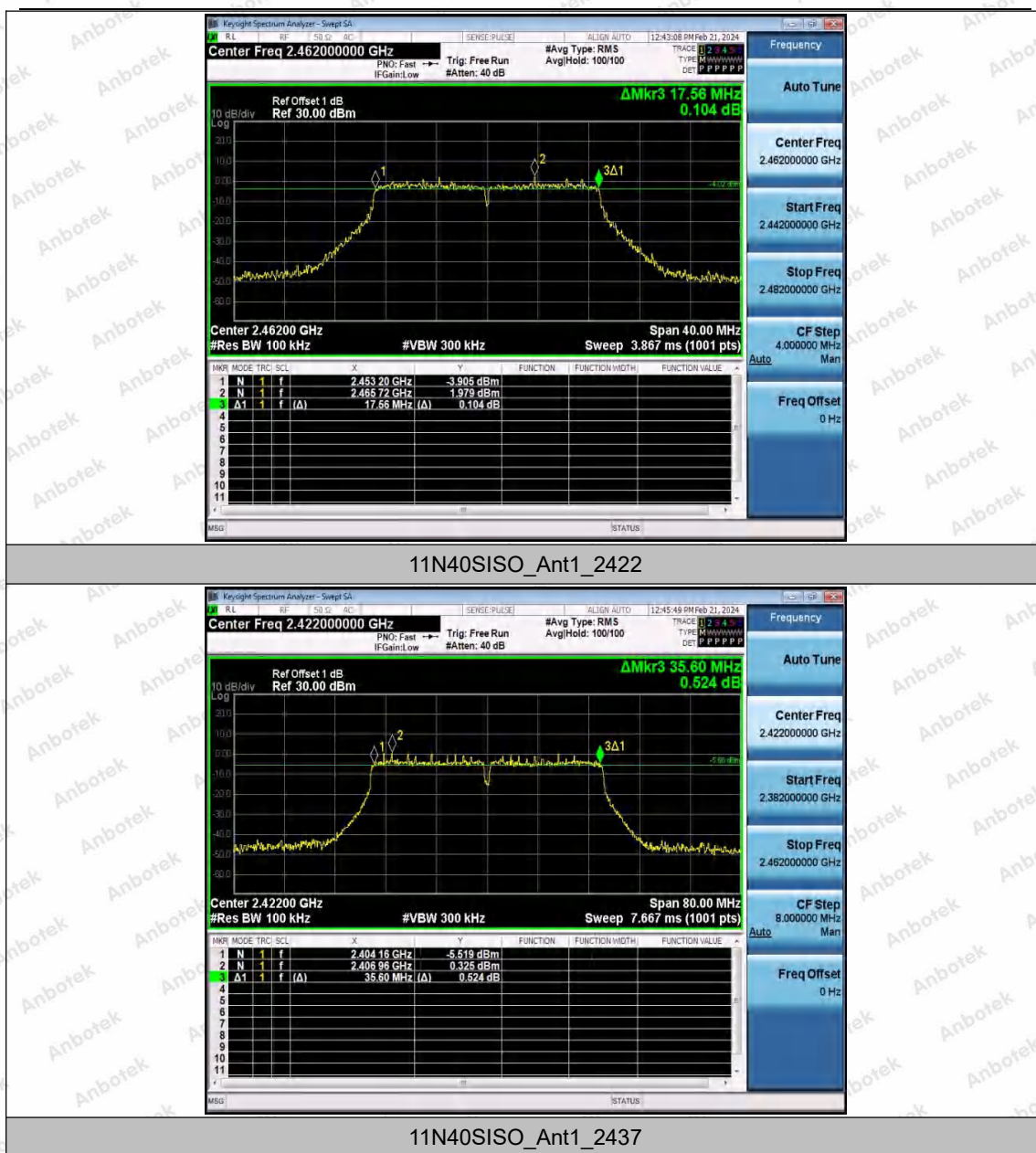
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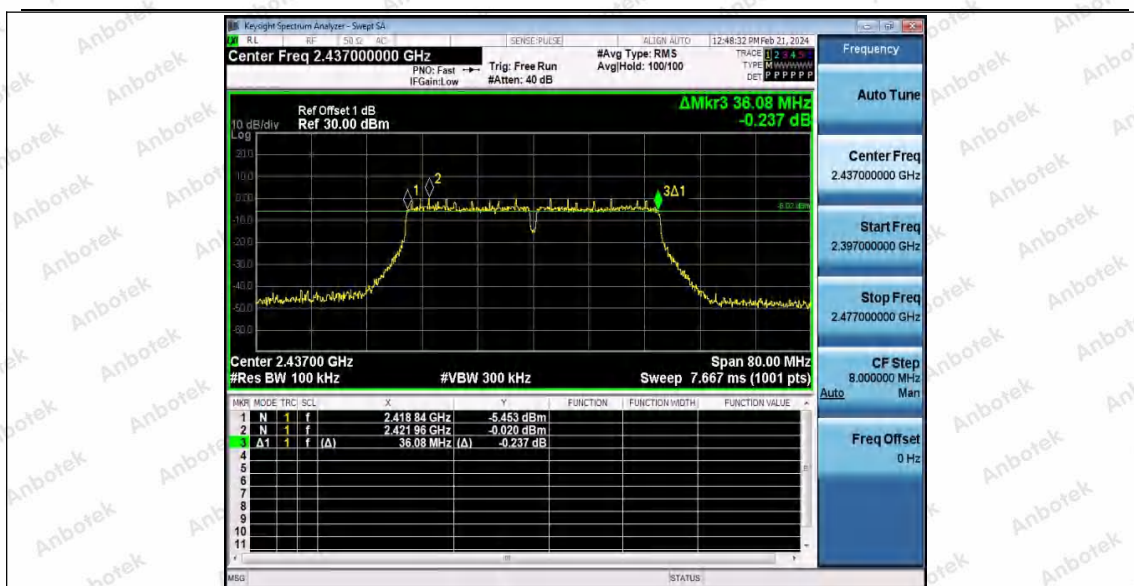
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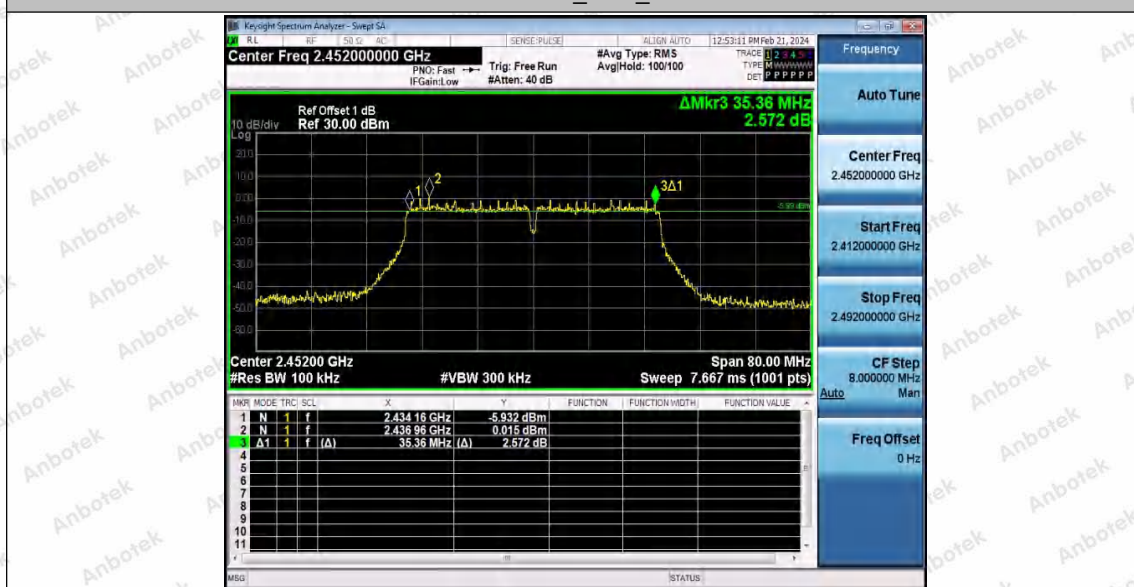


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11N40SISO_Ant1_2452



Appendix B: Occupied Channel Bandwidth

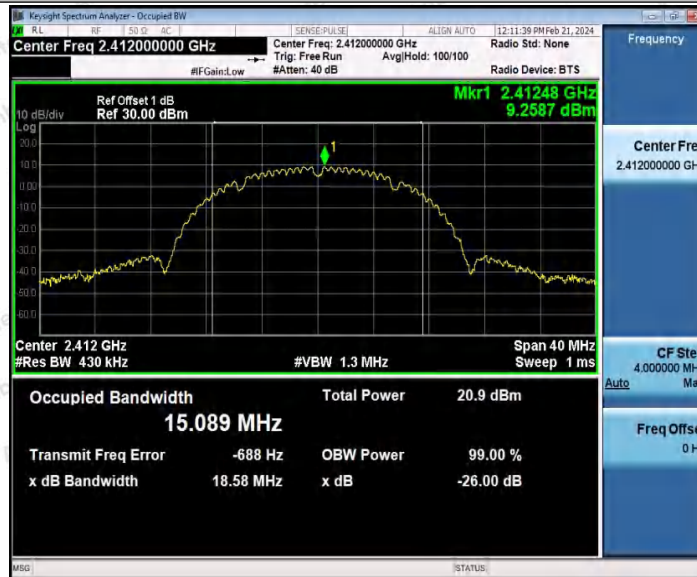
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.089	2404.4548	2419.5438	---	---
		2437	15.107	2429.4392	2444.5462	---	---
		2462	15.106	2454.4366	2469.5426	---	---
11G	Ant1	2412	16.991	2403.5223	2420.5133	---	---
		2437	17.102	2428.4459	2445.5479	---	---
		2462	17.090	2453.4456	2470.5356	---	---
11N20SISO	Ant1	2412	17.908	2403.0475	2420.9555	---	---
		2437	18.115	2427.9391	2446.0541	---	---
		2462	18.102	2452.9744	2471.0764	---	---
11N40SISO	Ant1	2422	36.647	2403.7362	2440.3832	---	---
		2437	36.641	2418.7120	2455.3530	---	---
		2452	36.531	2433.6950	2470.2260	---	---



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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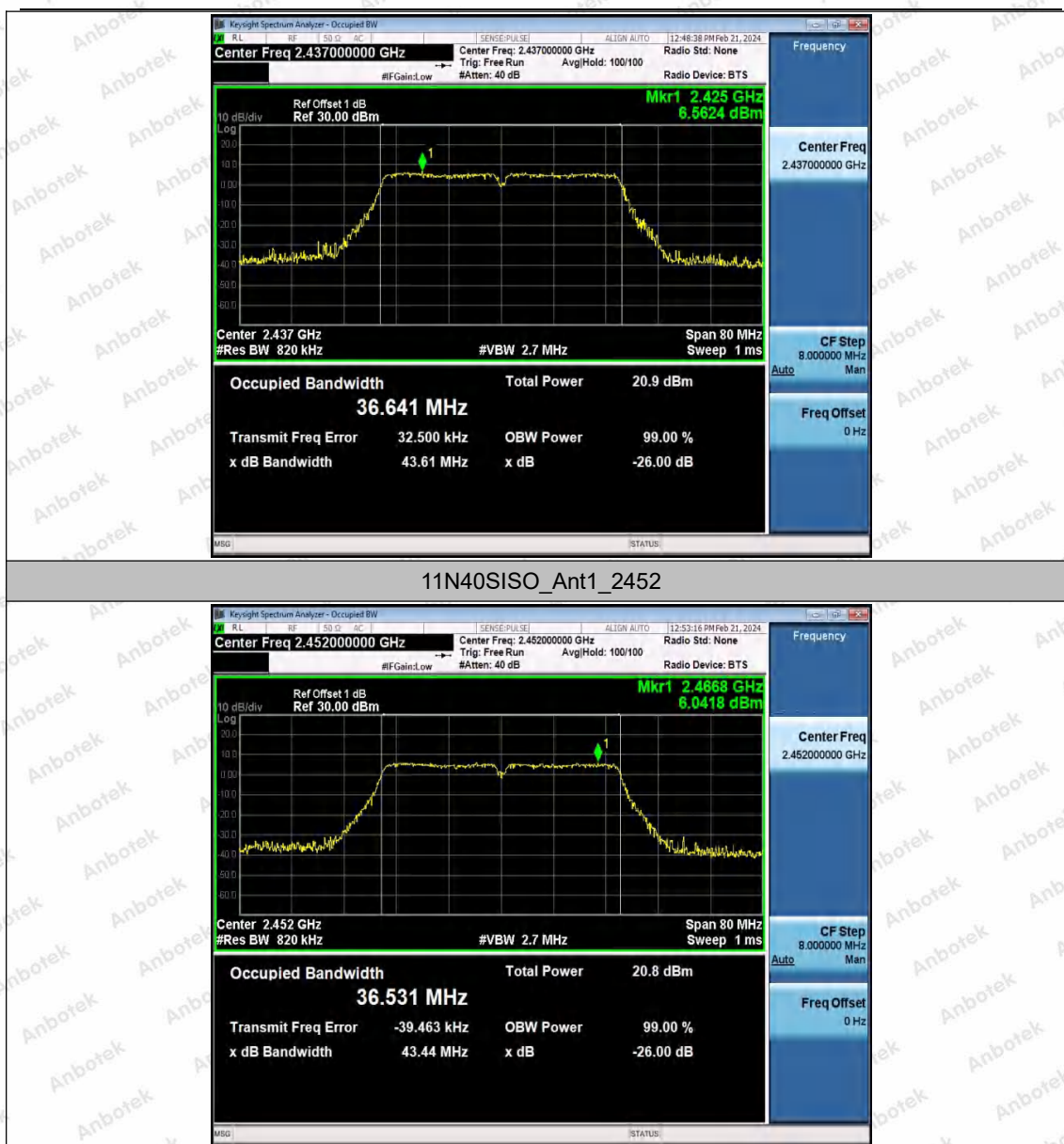
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.60	≤30.00
		2437	17.57	≤30.00
		2462	17.27	≤30.00
11G	Ant1	2412	17.84	≤30.00
		2437	17.78	≤30.00
		2462	17.40	≤30.00
11N20SISO	Ant1	2412	17.73	≤30.00
		2437	17.82	≤30.00
		2462	17.31	≤30.00
11N40SISO	Ant1	2422	18.43	≤30.00
		2437	18.42	≤30.00
		2452	17.58	≤30.00

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

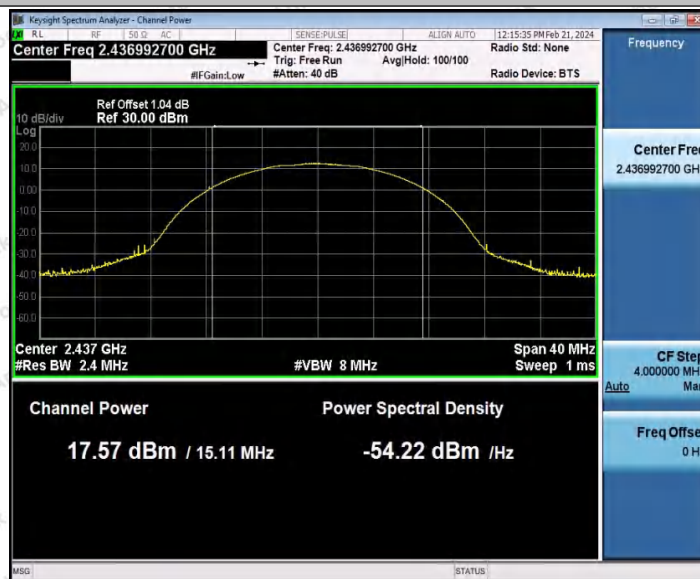


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

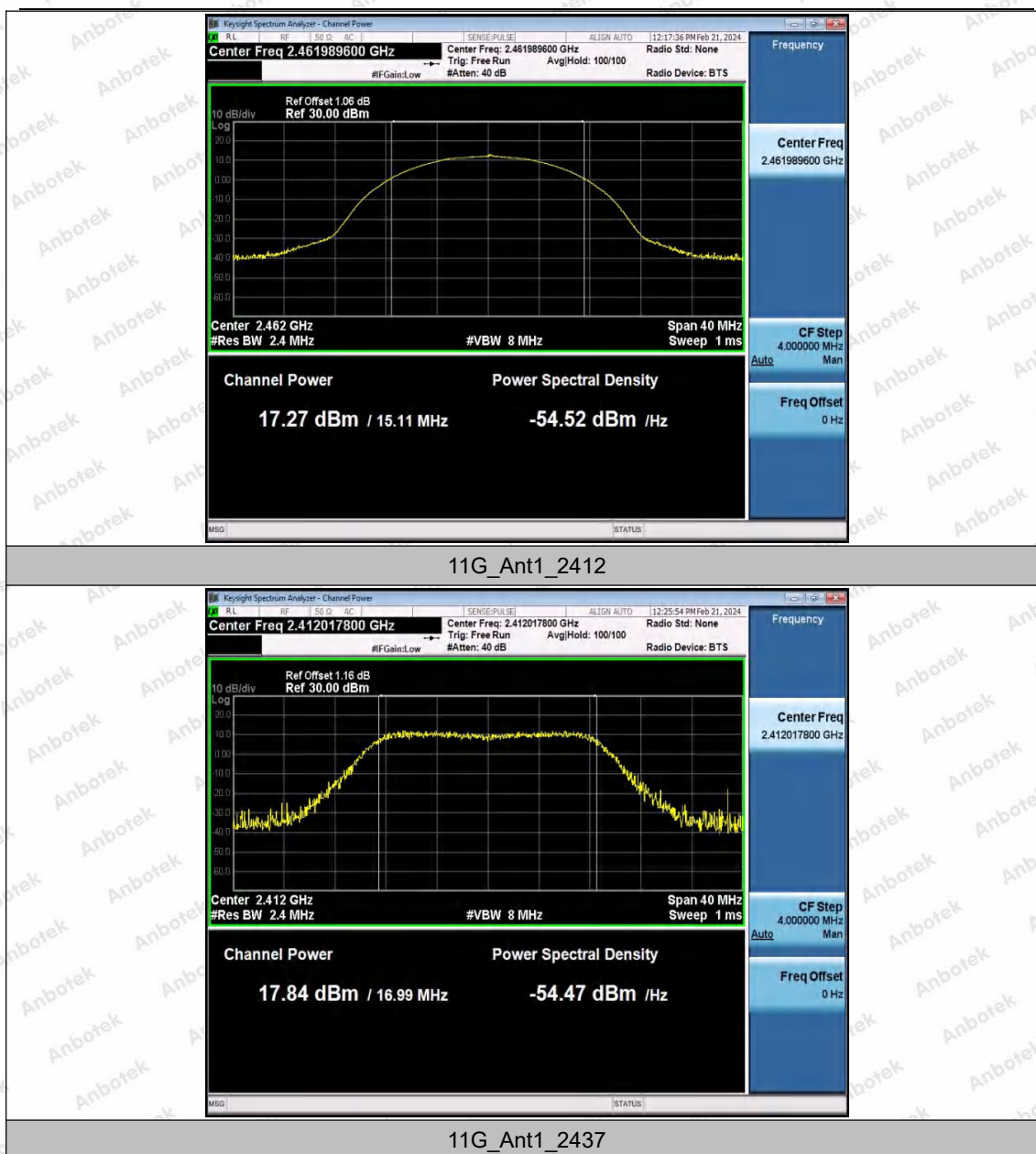
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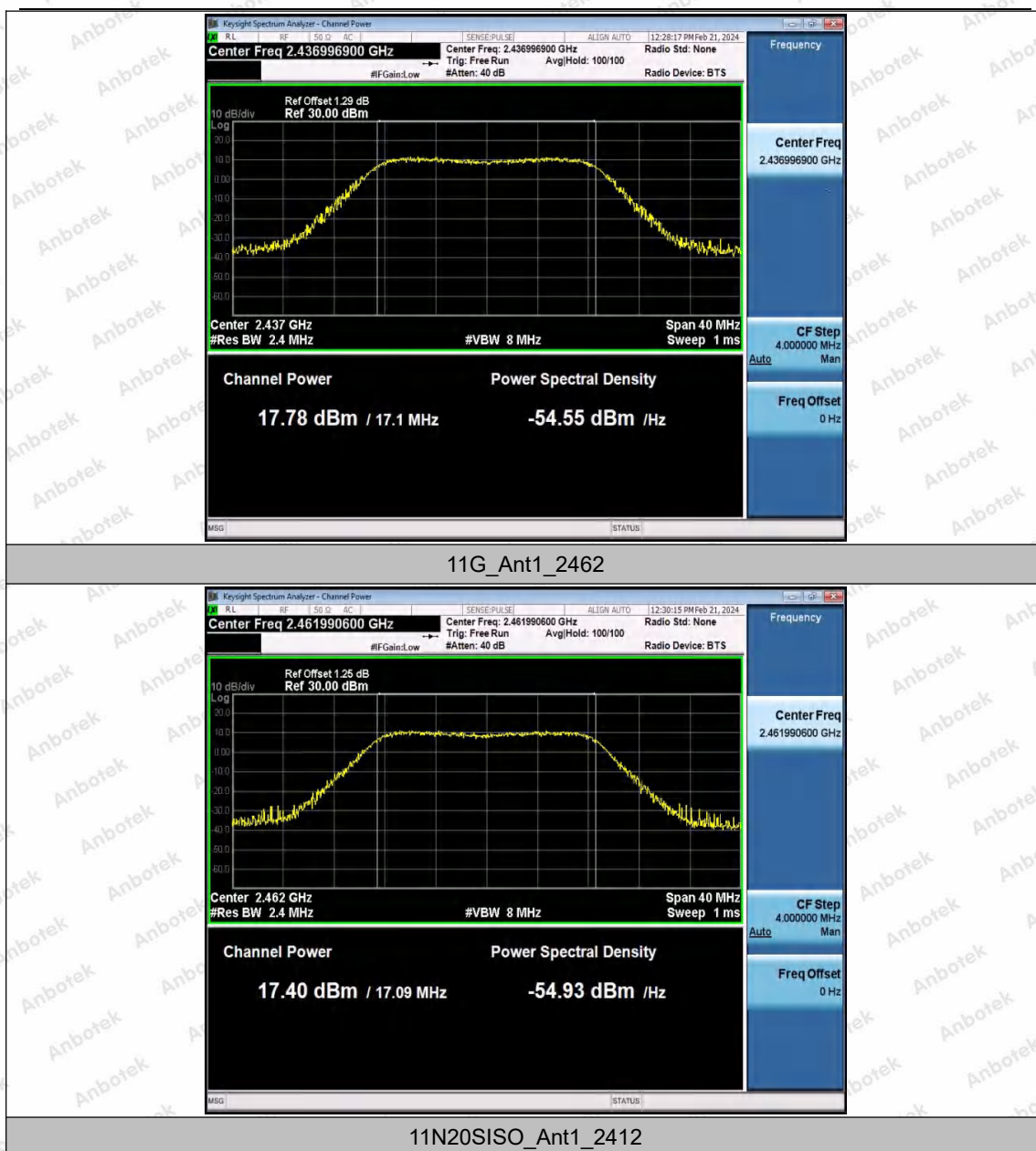
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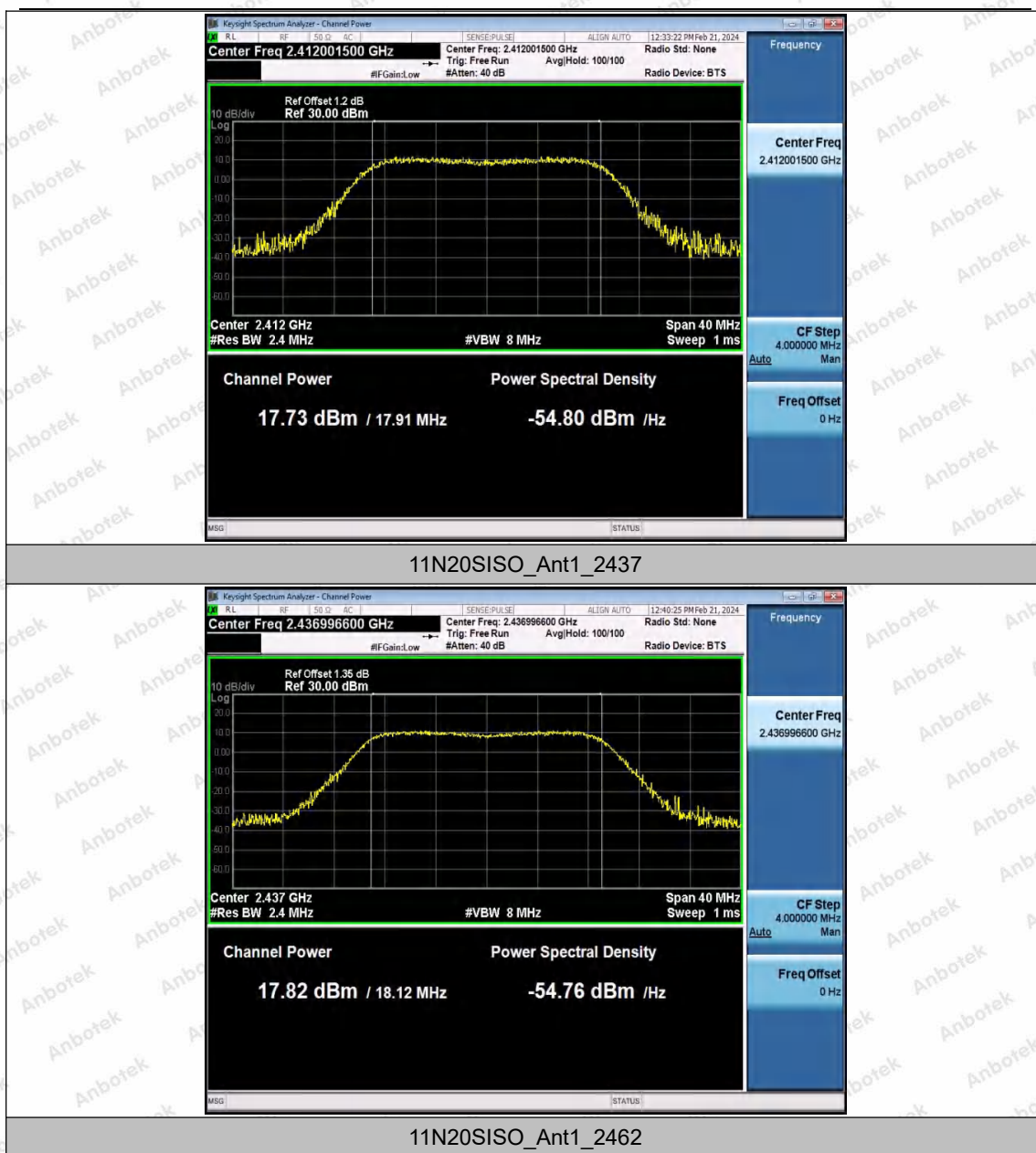
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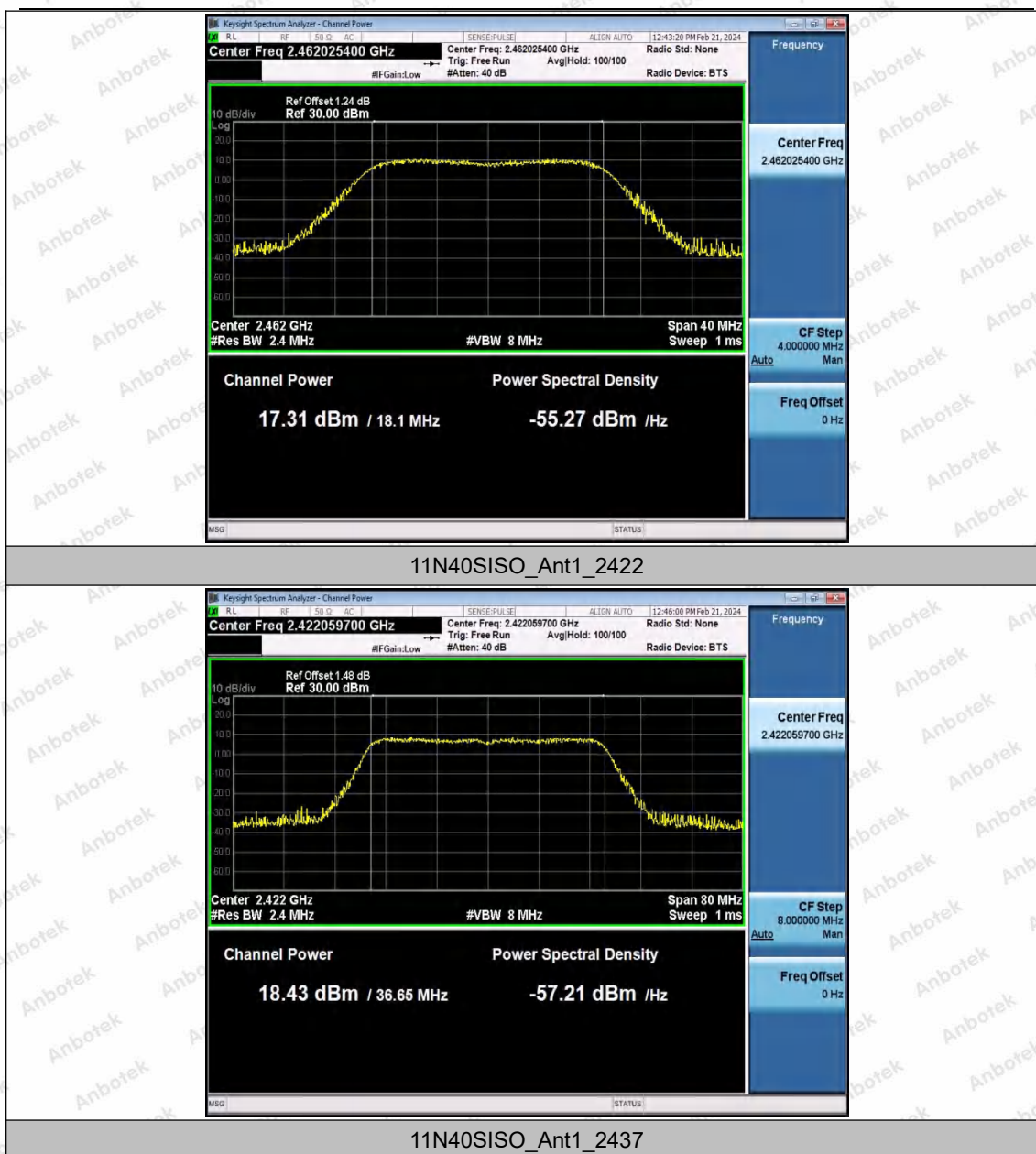
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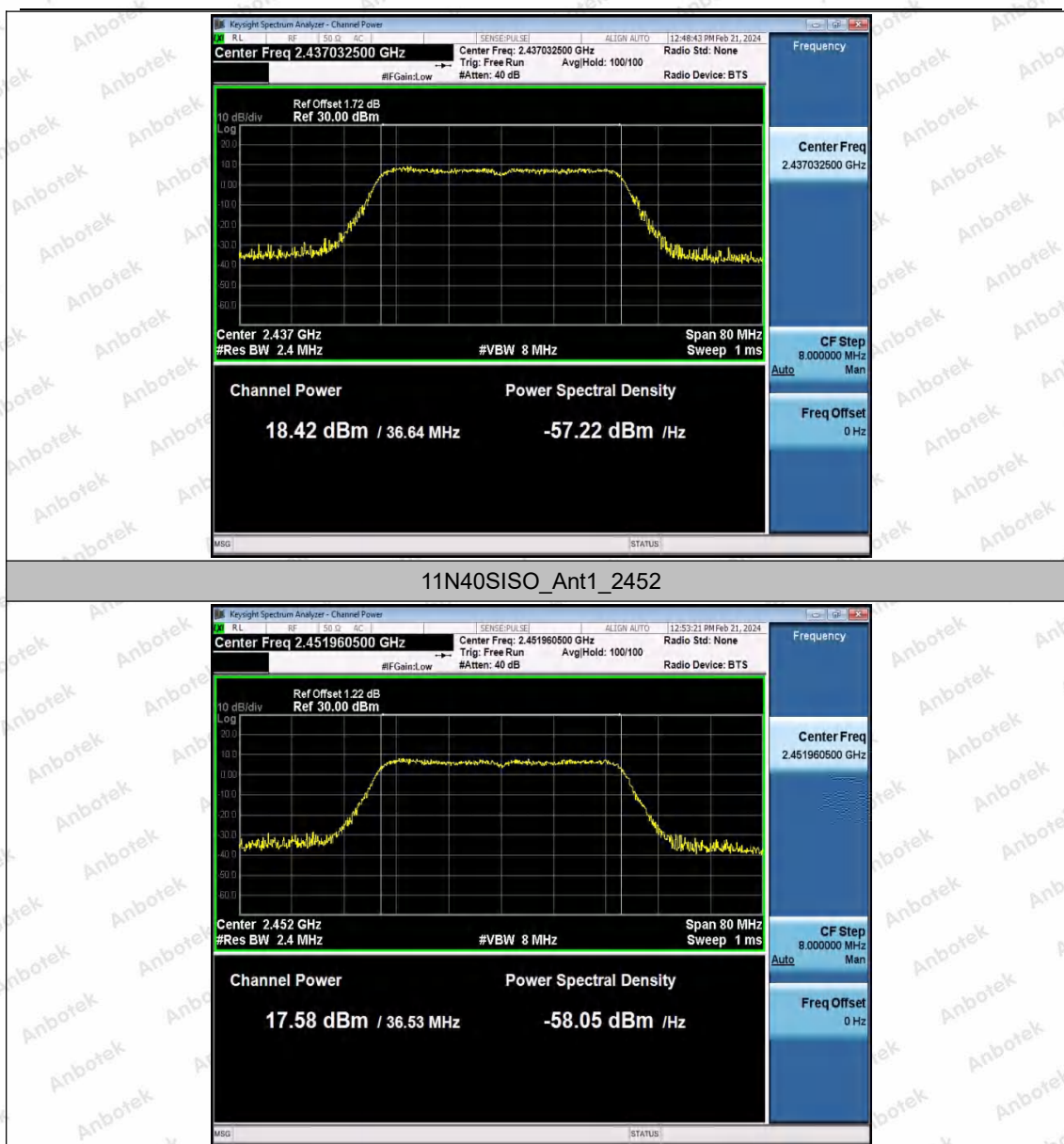
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.07	-16.07	≤8.00	PASS
		2437	-5.45	-15.45	≤8.00	PASS
		2462	-5.63	-15.63	≤8.00	PASS
11G	Ant1	2412	-13.56	-23.56	≤8.00	PASS
		2437	-10.06	-20.06	≤8.00	PASS
		2462	-10.25	-20.25	≤8.00	PASS
11N20SISO	Ant1	2412	-14.64	-24.64	≤8.00	PASS
		2437	-10.04	-20.04	≤8.00	PASS
		2462	-10.81	-20.81	≤8.00	PASS
11N40SISO	Ant1	2422	-12.35	-22.35	≤8.00	PASS
		2437	-12.17	-22.17	≤8.00	PASS
		2452	-13.11	-23.11	≤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

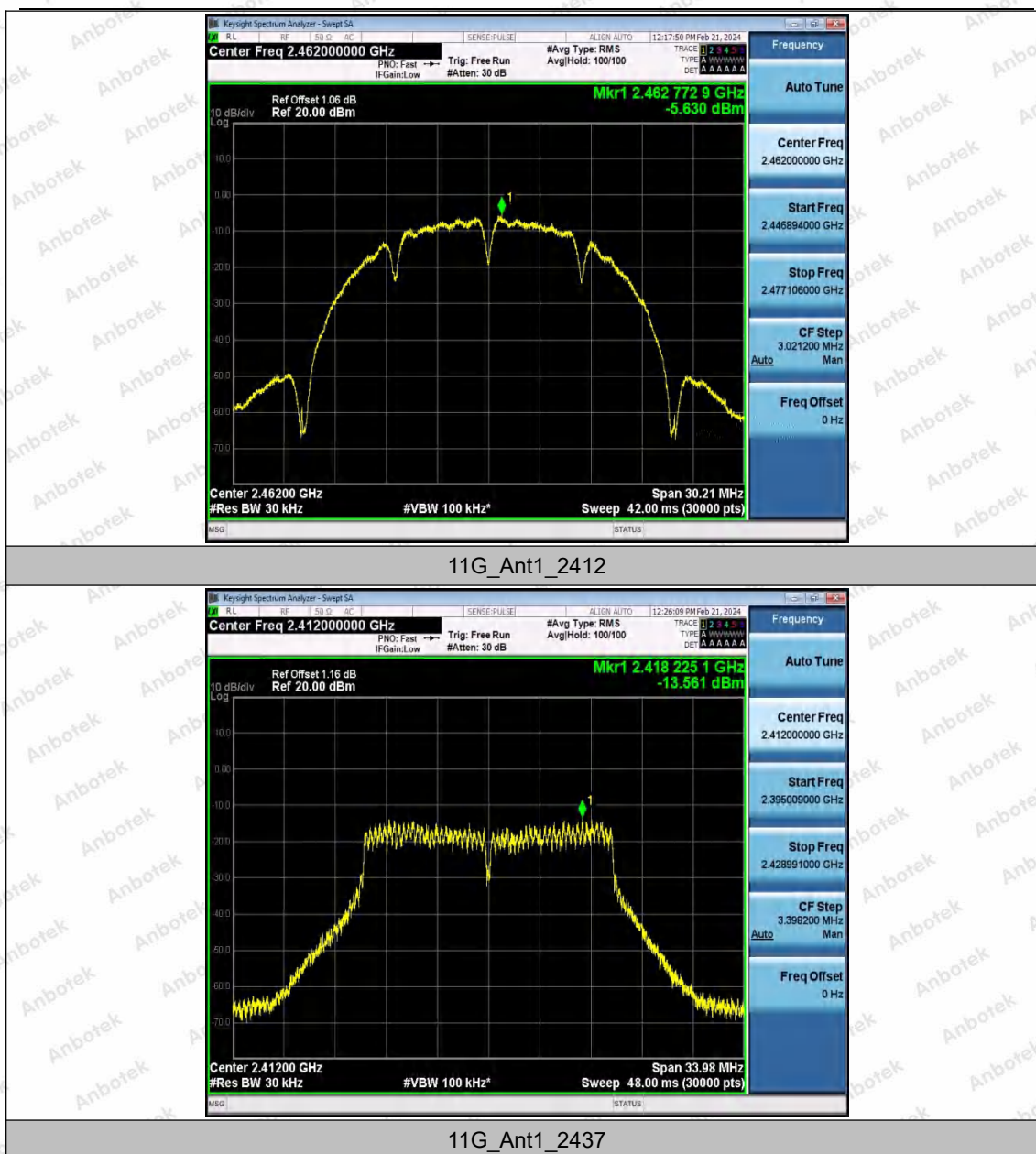


11B_Ant1_2437



11B_Ant1_2462



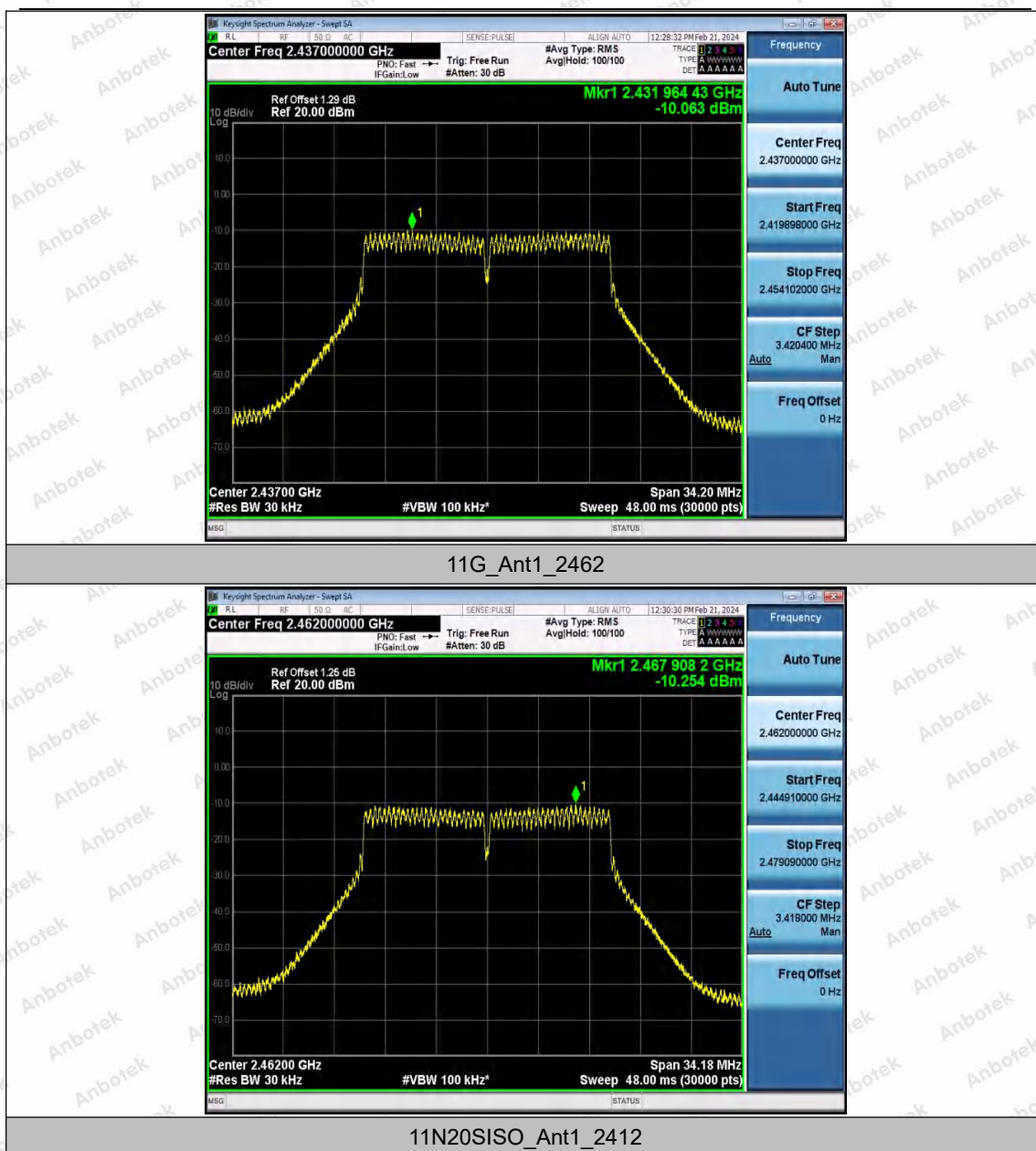
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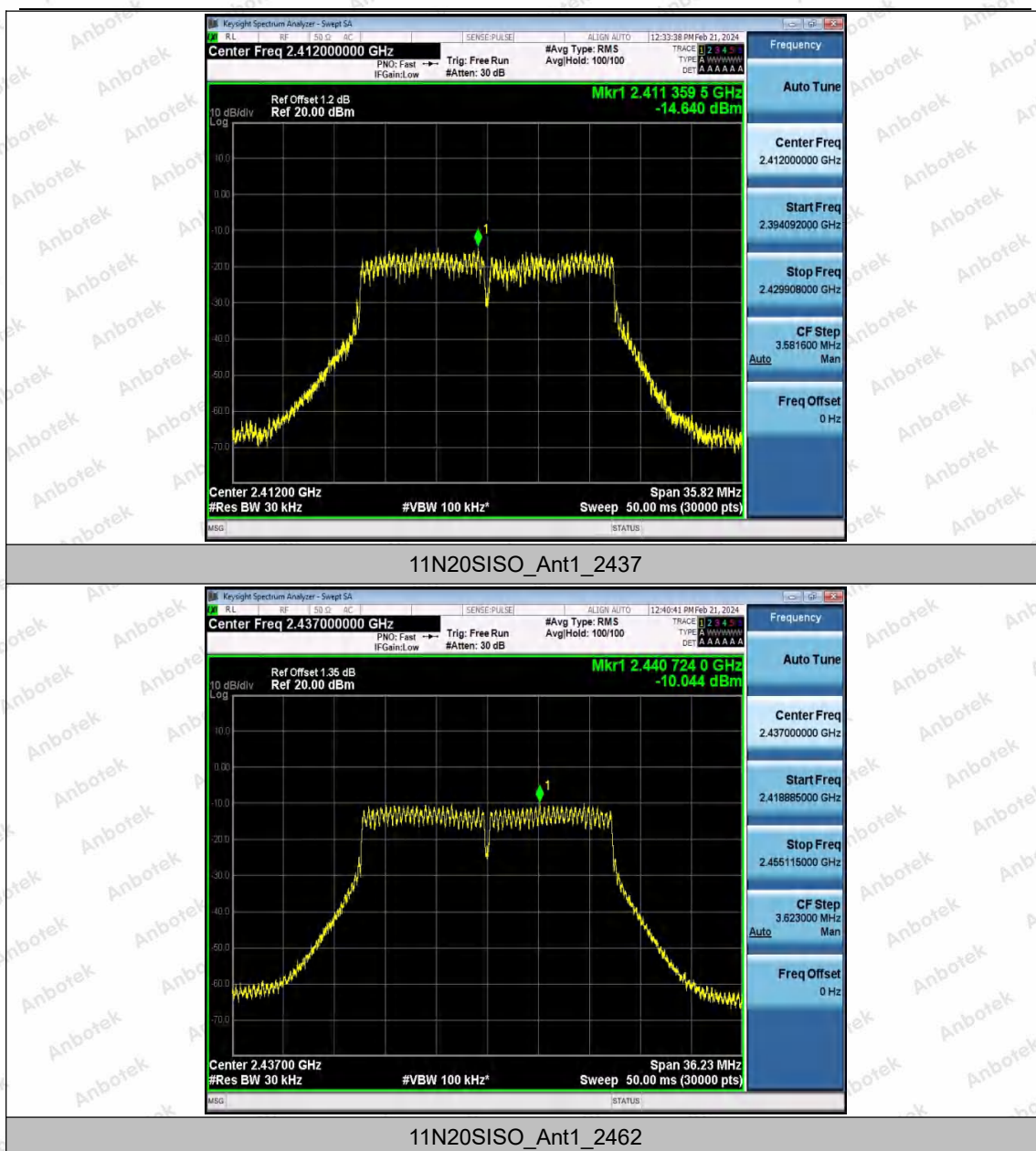
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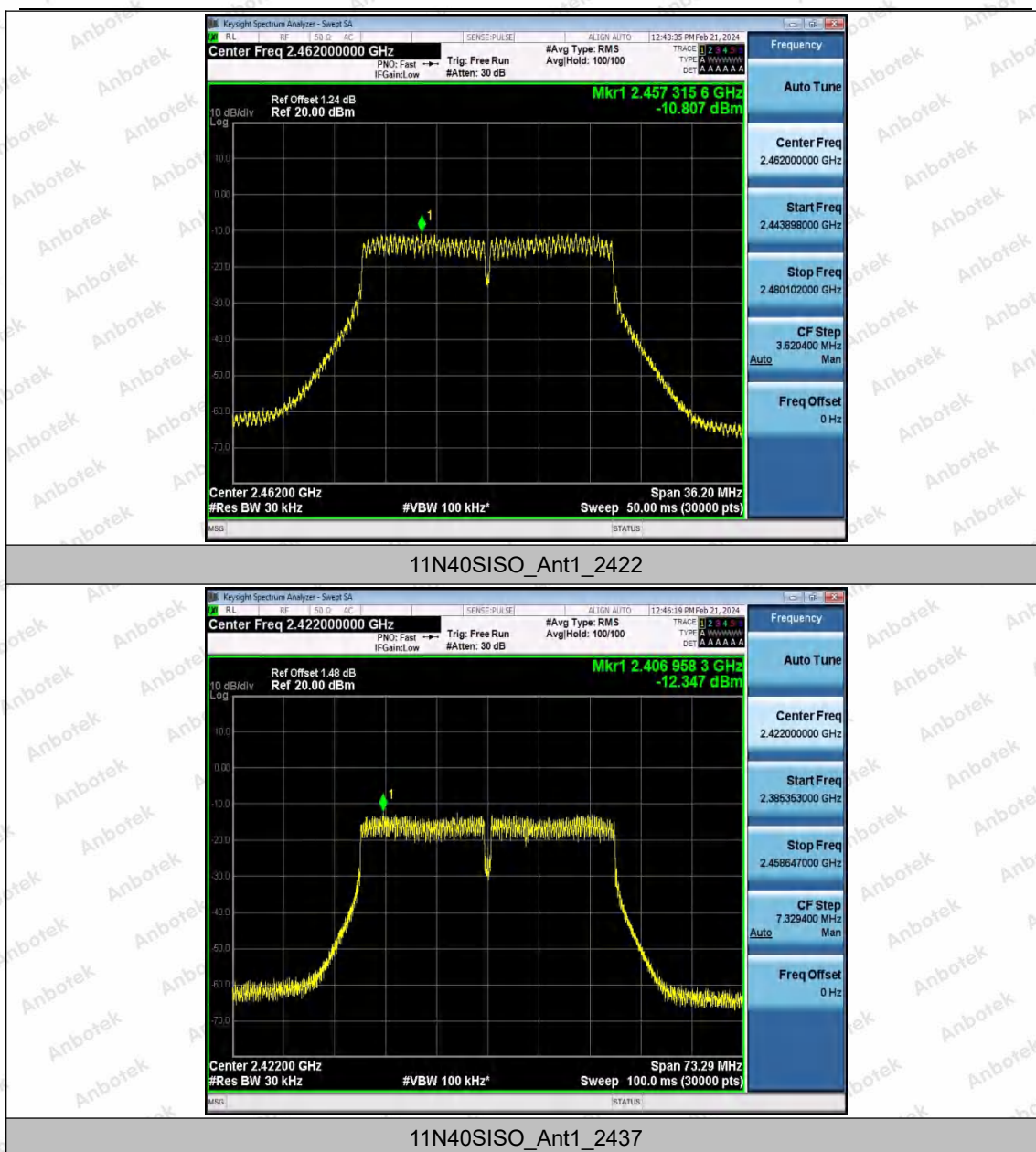
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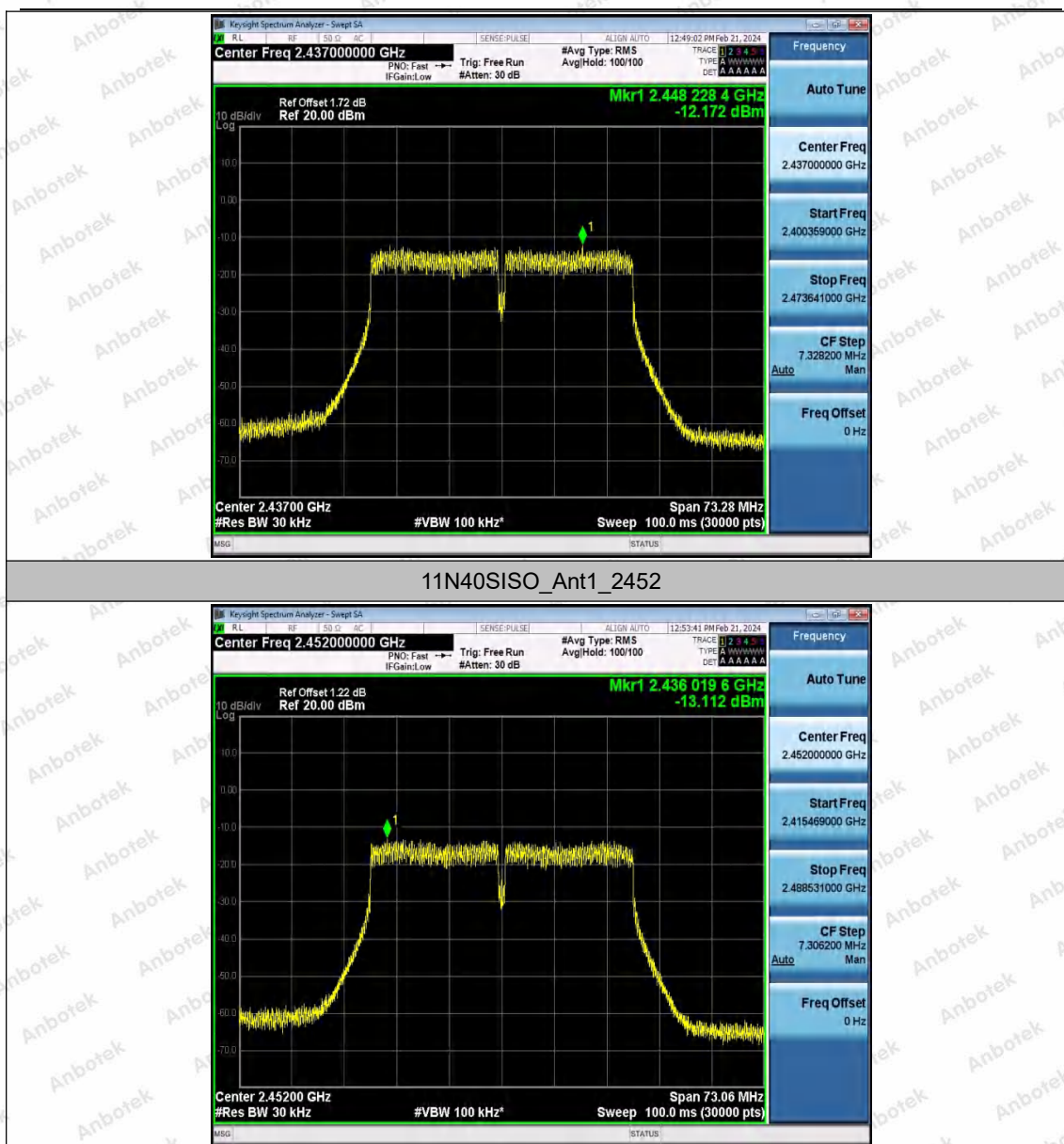
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Appendix E: Band edge measurements

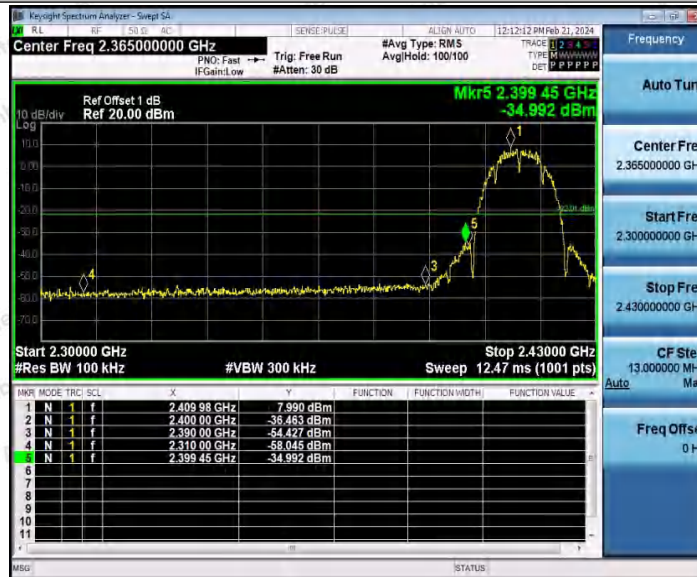
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.99	-34.99	≤-22.01	PASS
		High	2462	6.92	-52.34	≤-23.09	PASS
11G	Ant1	Low	2412	0.69	-34.8	≤-29.31	PASS
		High	2462	-0.30	-49.28	≤-30.3	PASS
11N20SISO	Ant1	Low	2412	3.03	-33.82	≤-26.97	PASS
		High	2462	2.46	-49.05	≤-27.54	PASS
11N40SISO	Ant1	Low	2422	-0.67	-36.06	≤-30.67	PASS
		High	2452	-0.39	-46.56	≤-30.39	PASS

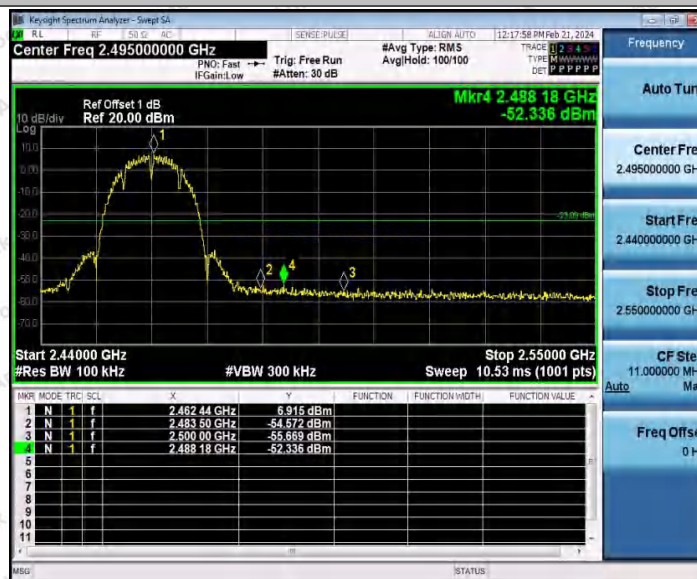


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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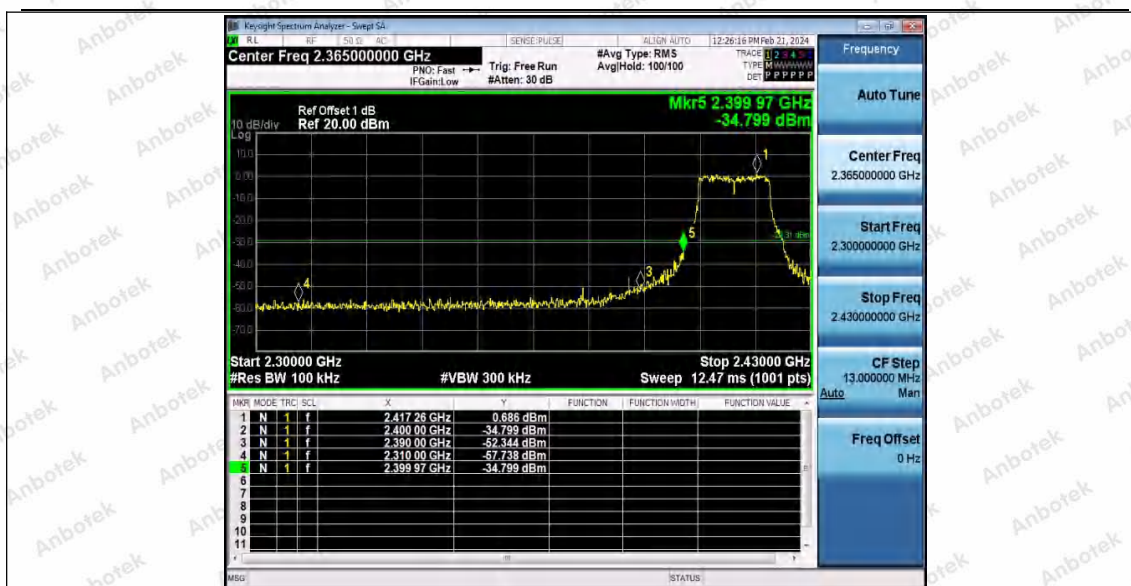


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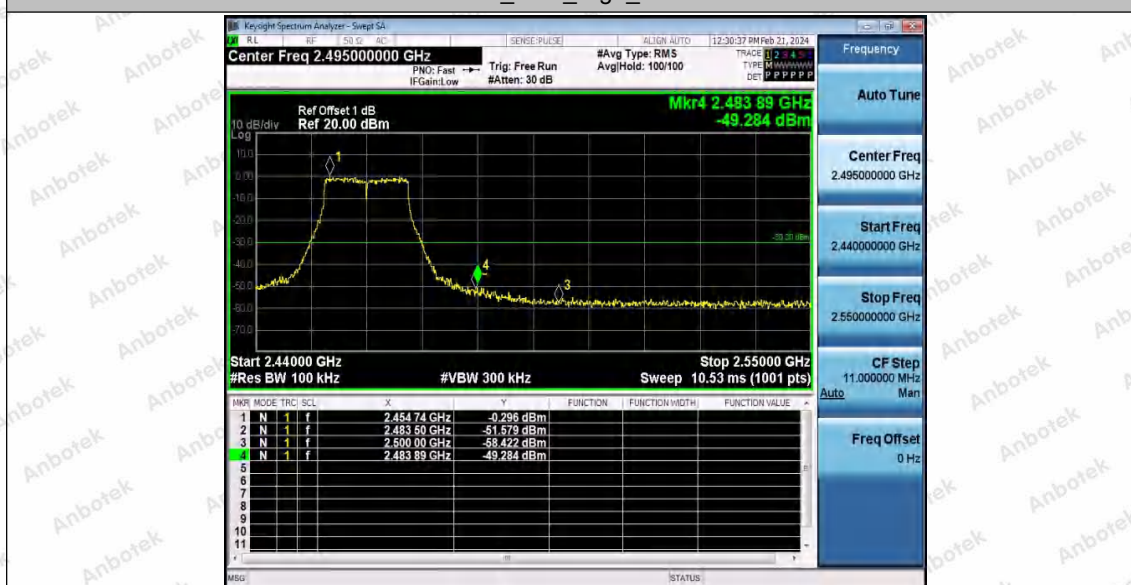
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

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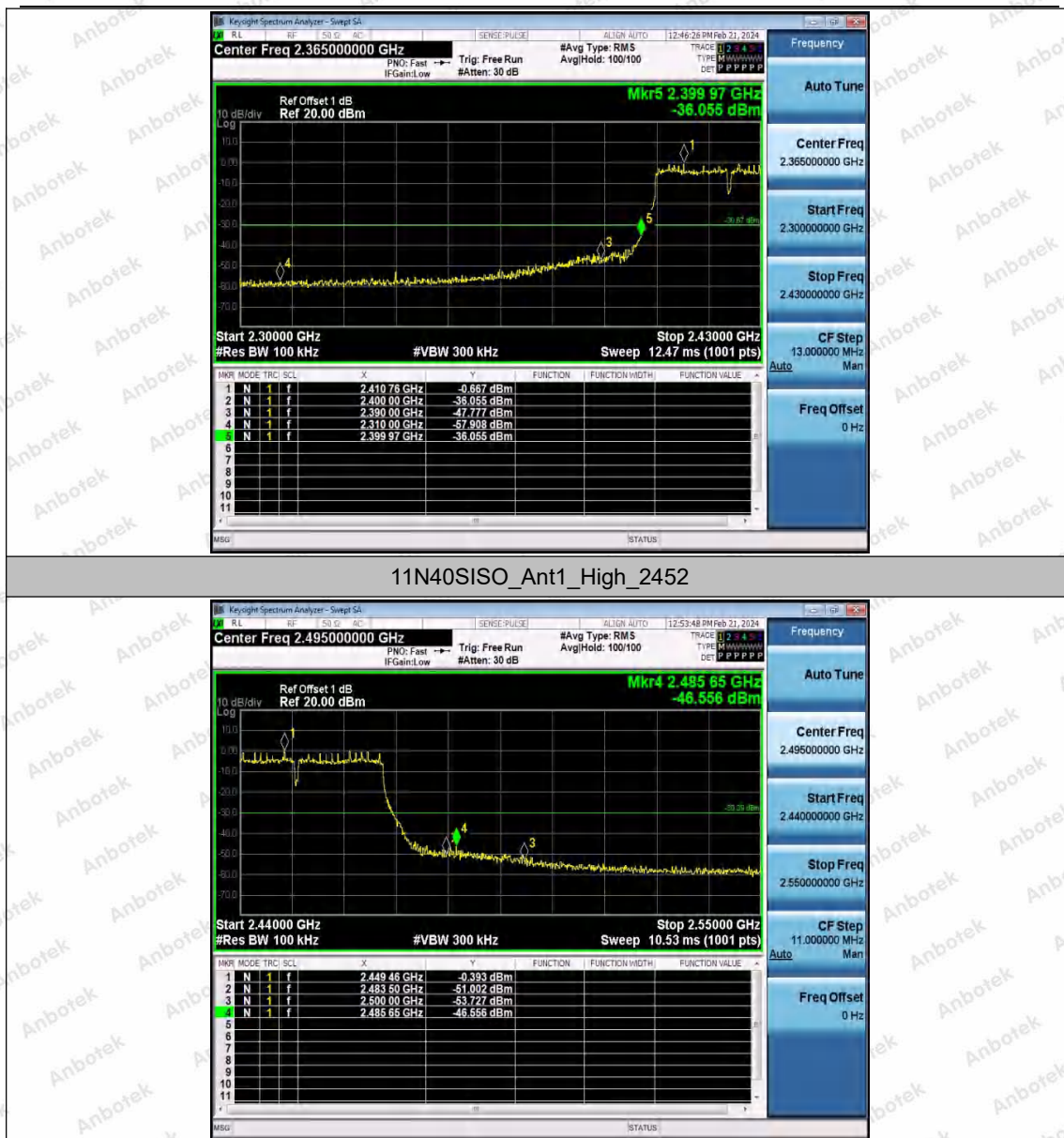
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.93	6.93	---	PASS
			30~1000	6.93	-67.93	≤-23.07	PASS
			1000~26500	6.93	-53.76	≤-23.07	PASS
		2437	Reference	6.58	6.58	---	PASS
			30~1000	6.58	-68.6	≤-23.42	PASS
			1000~26500	6.58	-53.2	≤-23.42	PASS
		2462	Reference	6.63	6.63	---	PASS
			30~1000	6.63	-68.21	≤-23.37	PASS
			1000~26500	6.63	-54.18	≤-23.37	PASS
11G	Ant1	2412	Reference	3.73	3.73	---	PASS
			30~1000	3.73	-68.61	≤-26.27	PASS
			1000~26500	3.73	-53.59	≤-26.27	PASS
		2437	Reference	0.81	0.81	---	PASS
			30~1000	0.81	-69.13	≤-29.19	PASS
			1000~26500	0.81	-53.53	≤-29.19	PASS
		2462	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-68.39	≤-28.2	PASS
			1000~26500	1.80	-53.31	≤-28.2	PASS
11N20SISO	Ant1	2412	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-69.36	≤-29.51	PASS
			1000~26500	0.49	-53.82	≤-29.51	PASS
		2437	Reference	0.69	0.69	---	PASS
			30~1000	0.69	-68.65	≤-29.31	PASS
			1000~26500	0.69	-53.82	≤-29.31	PASS
		2462	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-69.12	≤-28.2	PASS
			1000~26500	1.80	-51.96	≤-28.2	PASS
11N40SISO	Ant1	2422	Reference	-0.40	-0.40	---	PASS
			30~1000	-0.40	-63.38	≤-30.4	PASS
			1000~26500	-0.40	-53.87	≤-30.4	PASS
		2437	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-62.63	≤-30.15	PASS
			1000~26500	-0.15	-53.14	≤-30.15	PASS
		2452	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-64.42	≤-31.14	PASS

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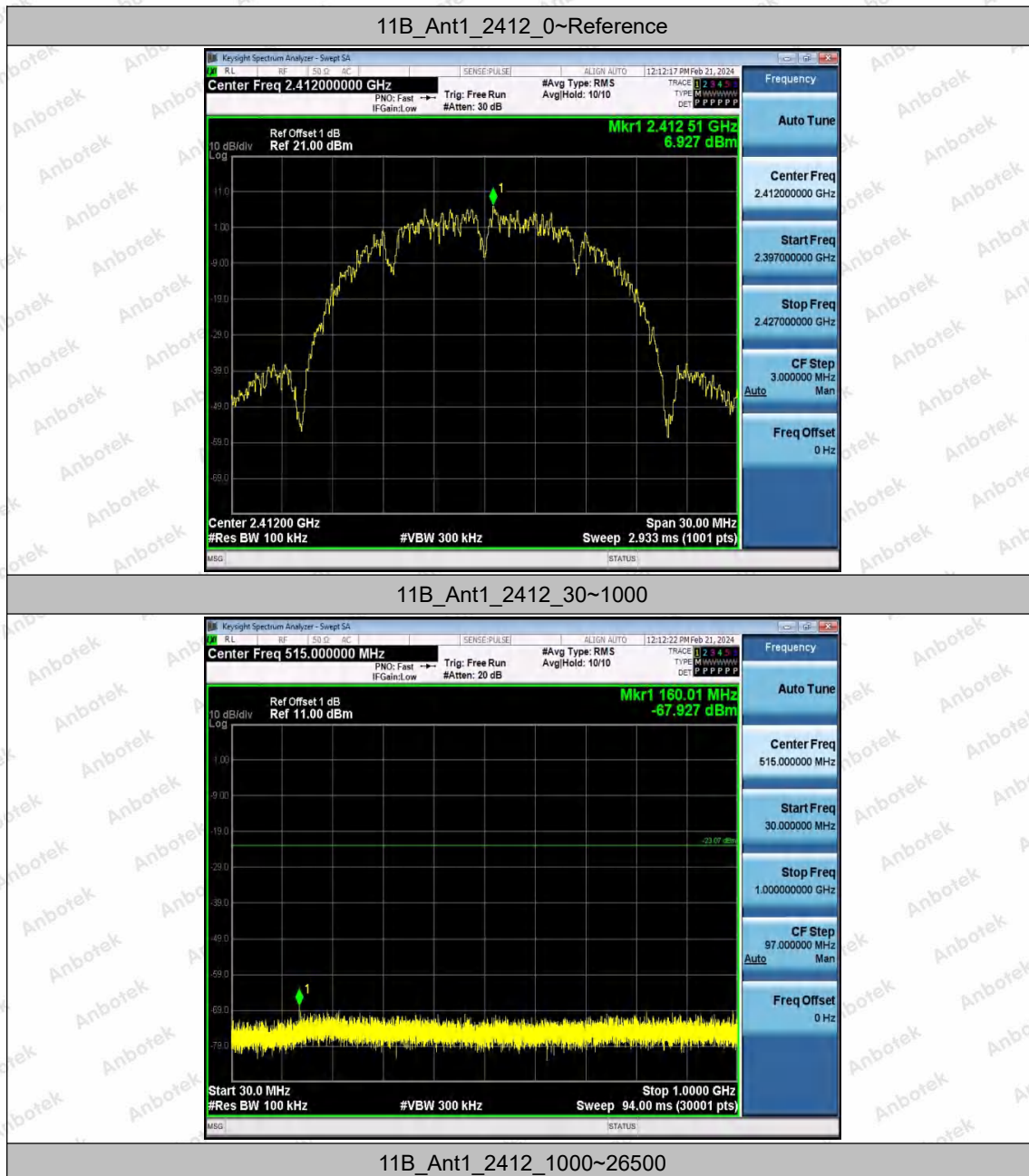
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			1000~26500	-1.14	-52.71	≤-31.14	PASS
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Test Graphs



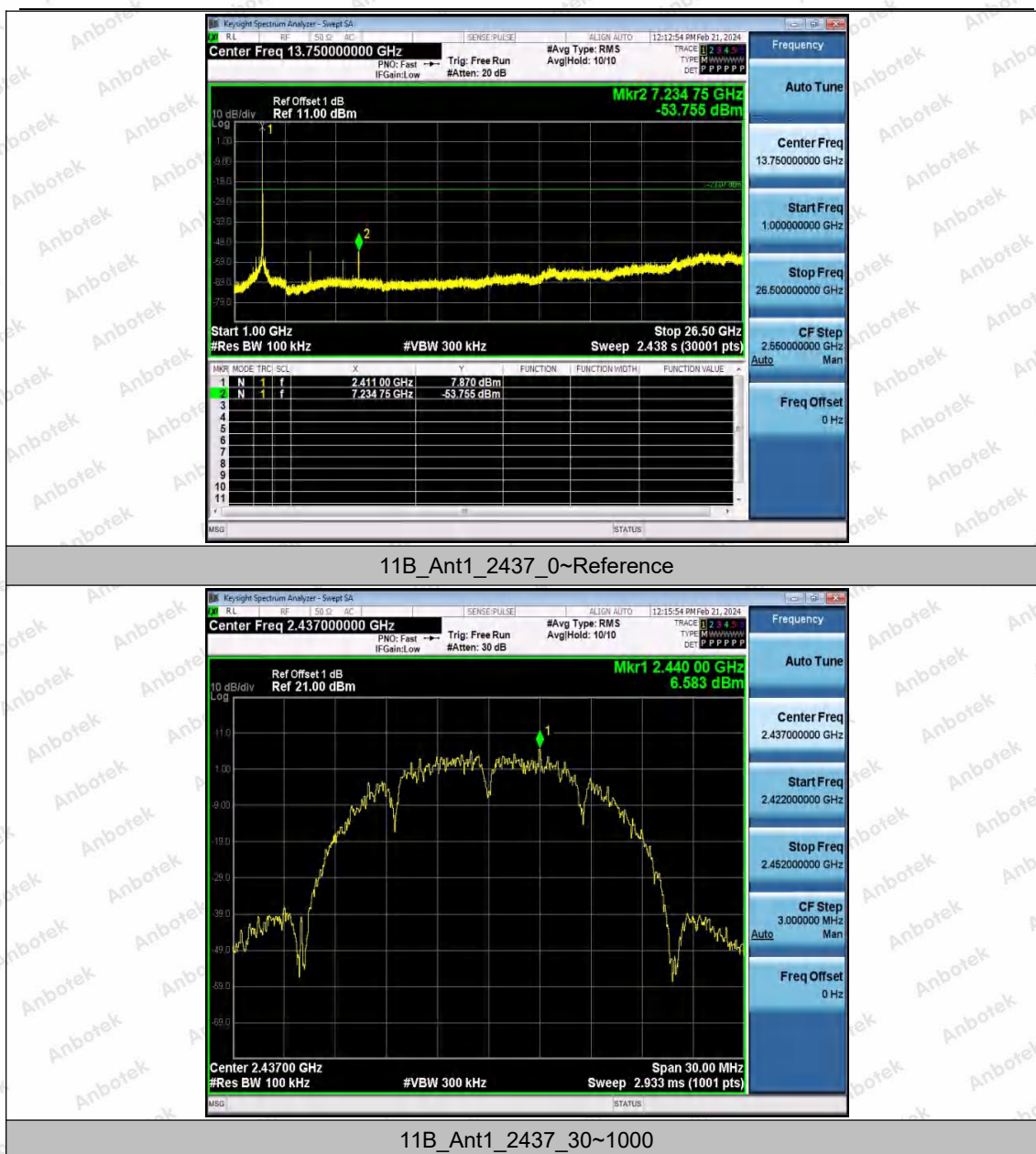
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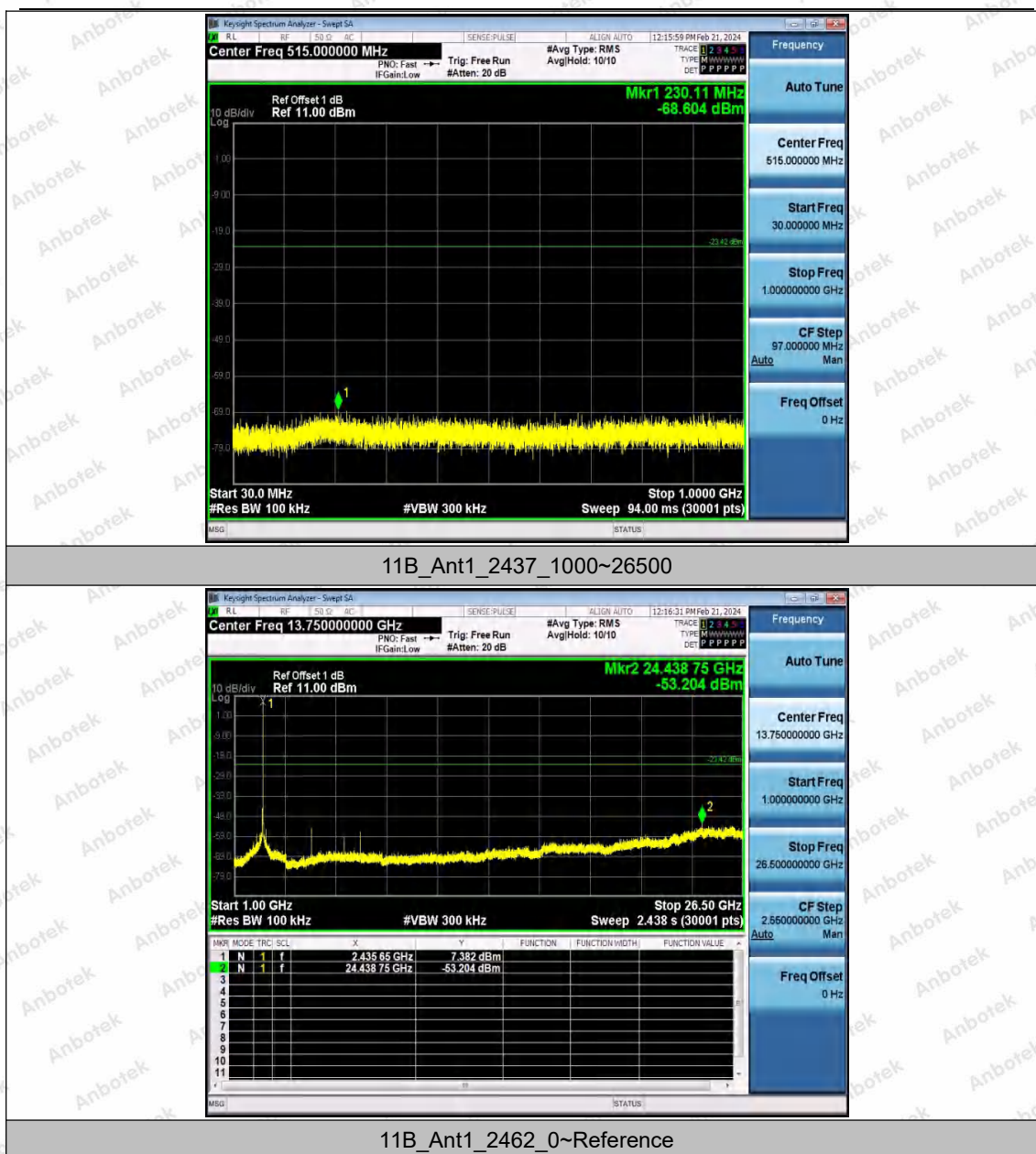
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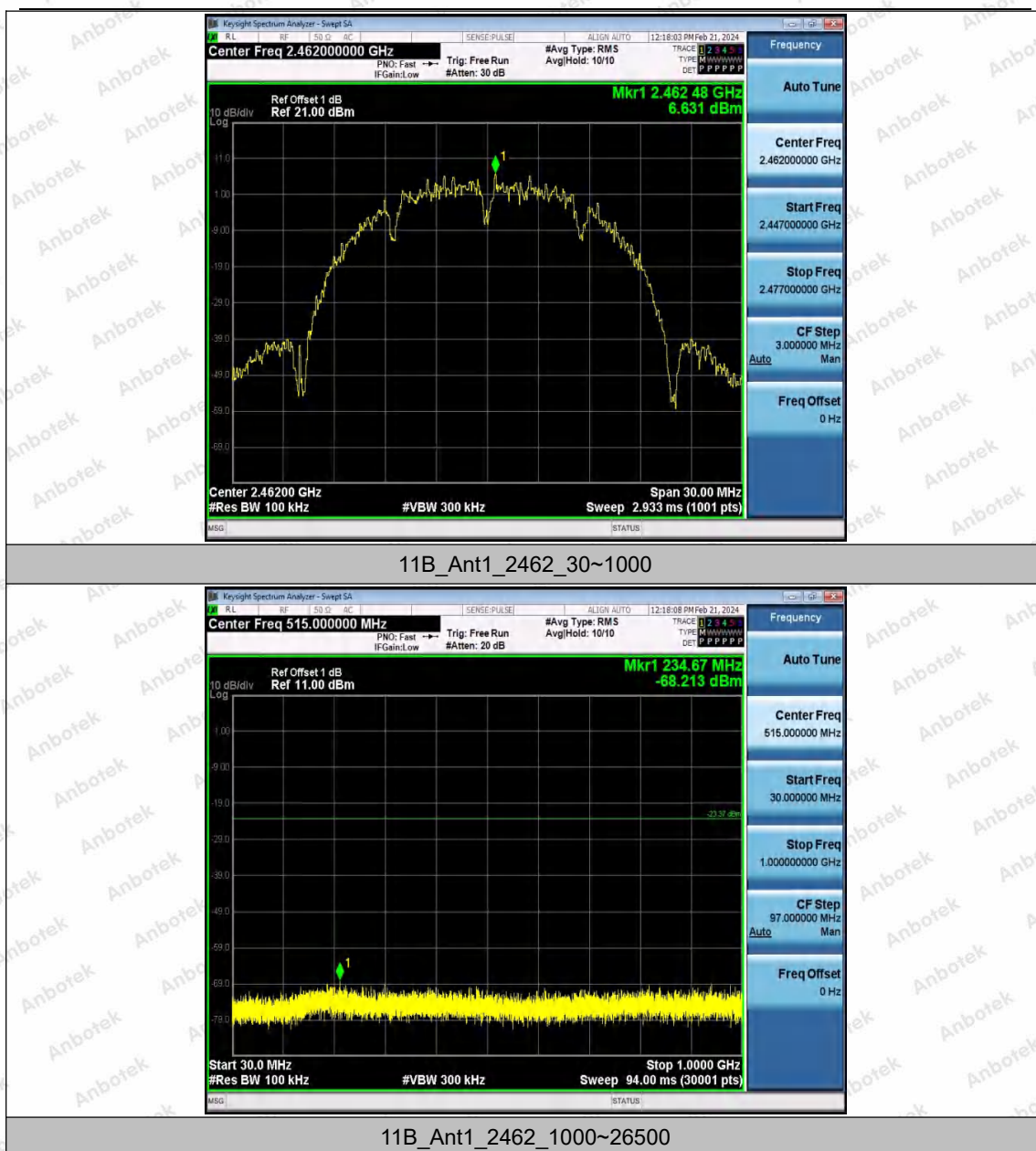
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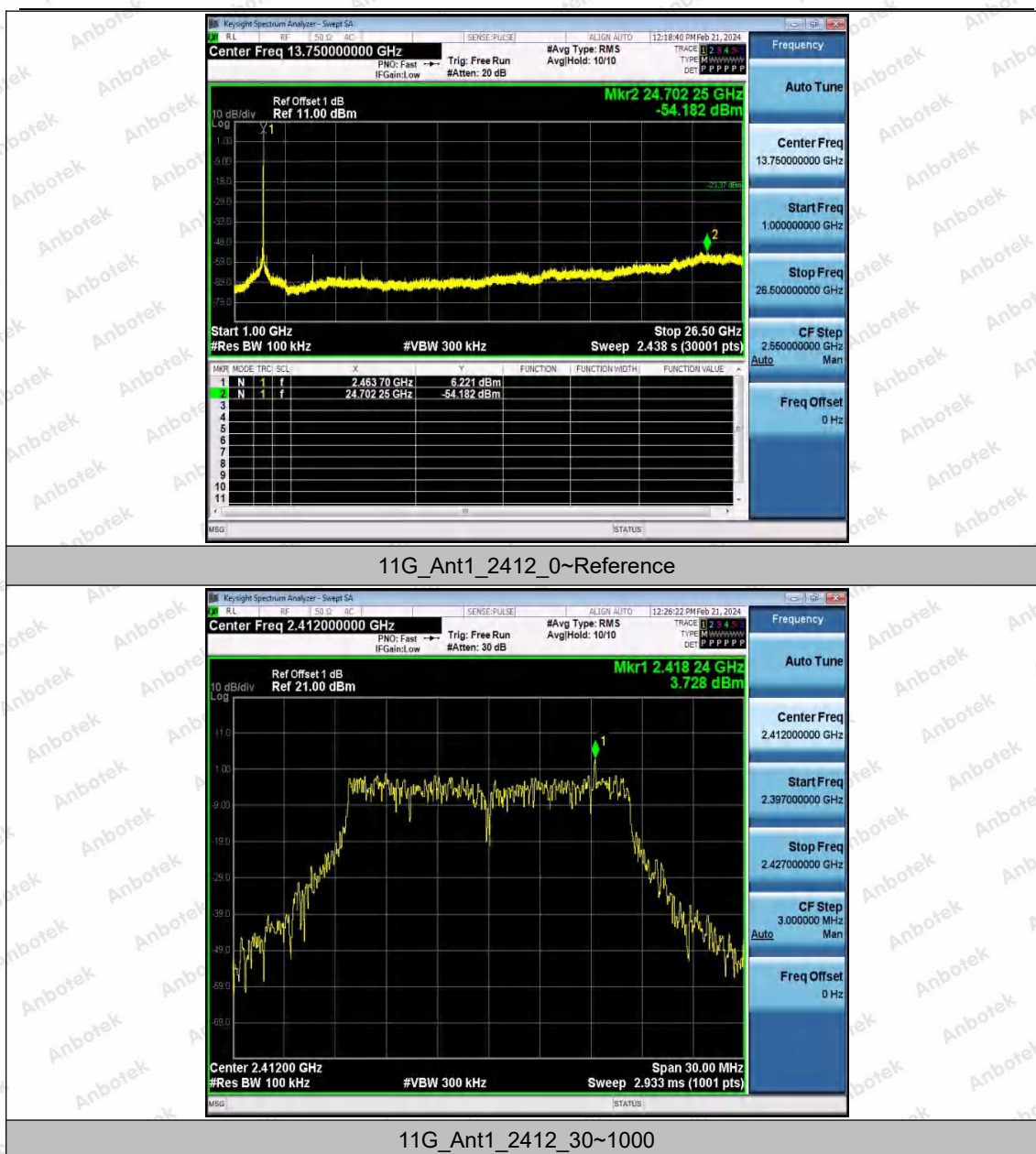
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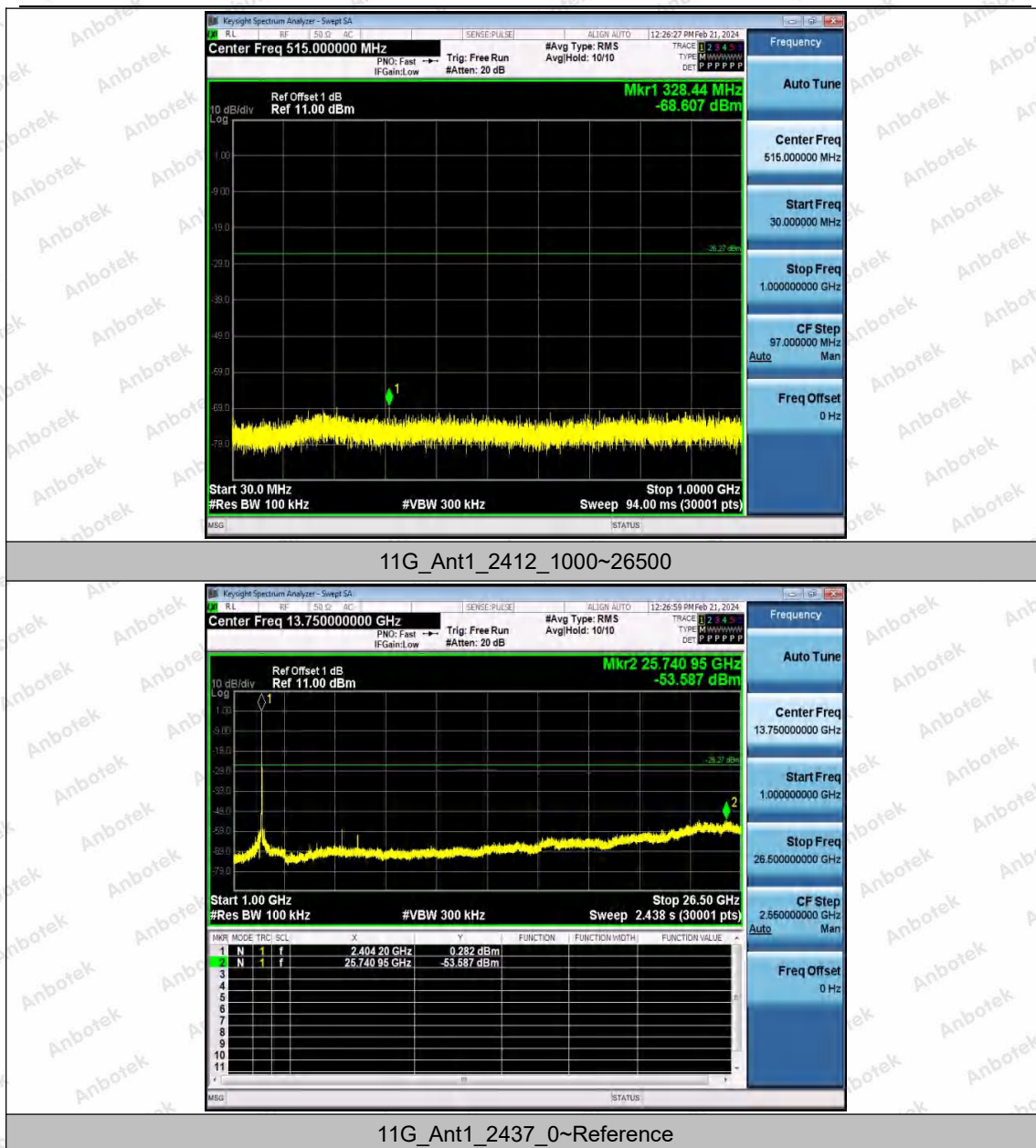
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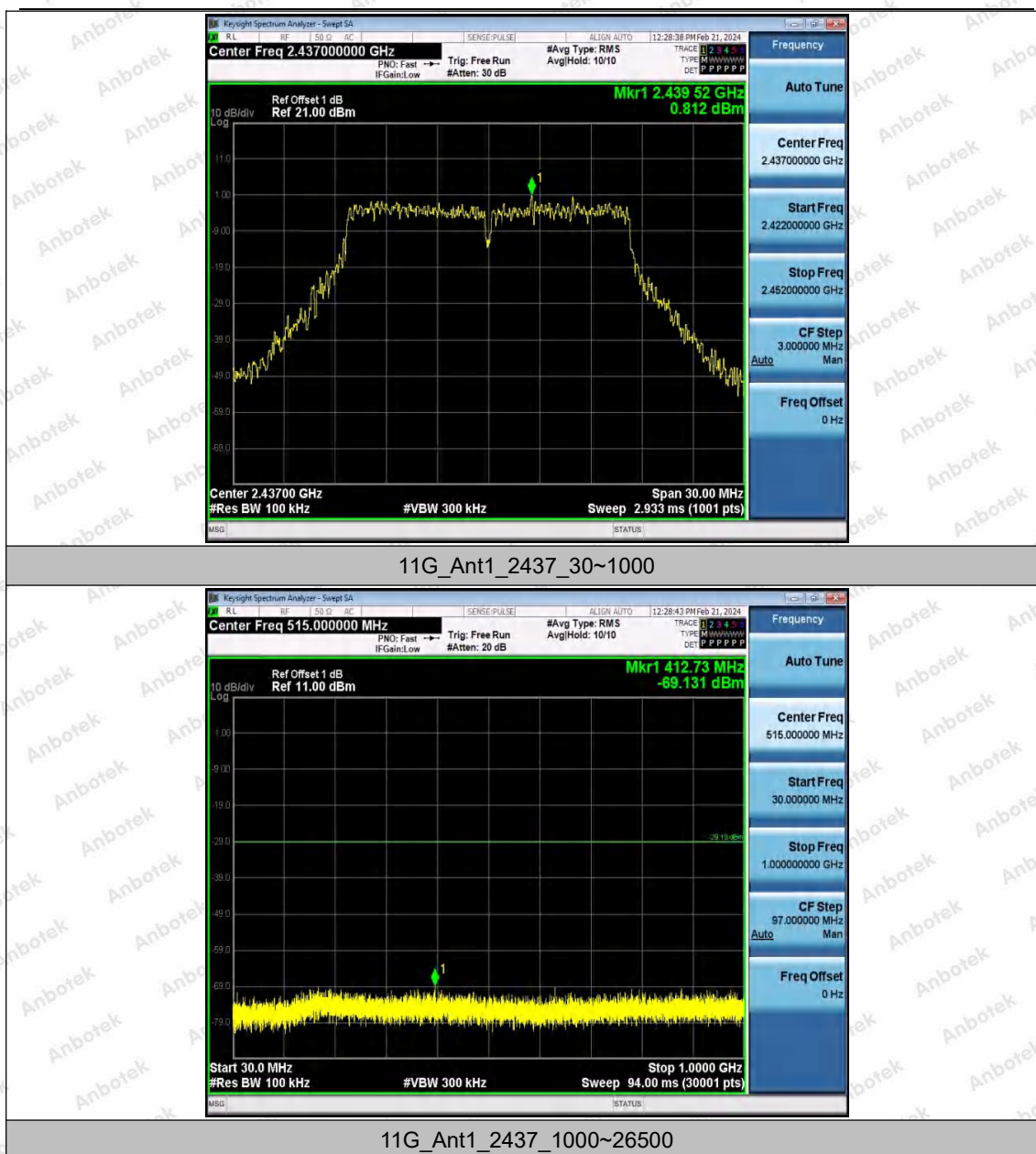


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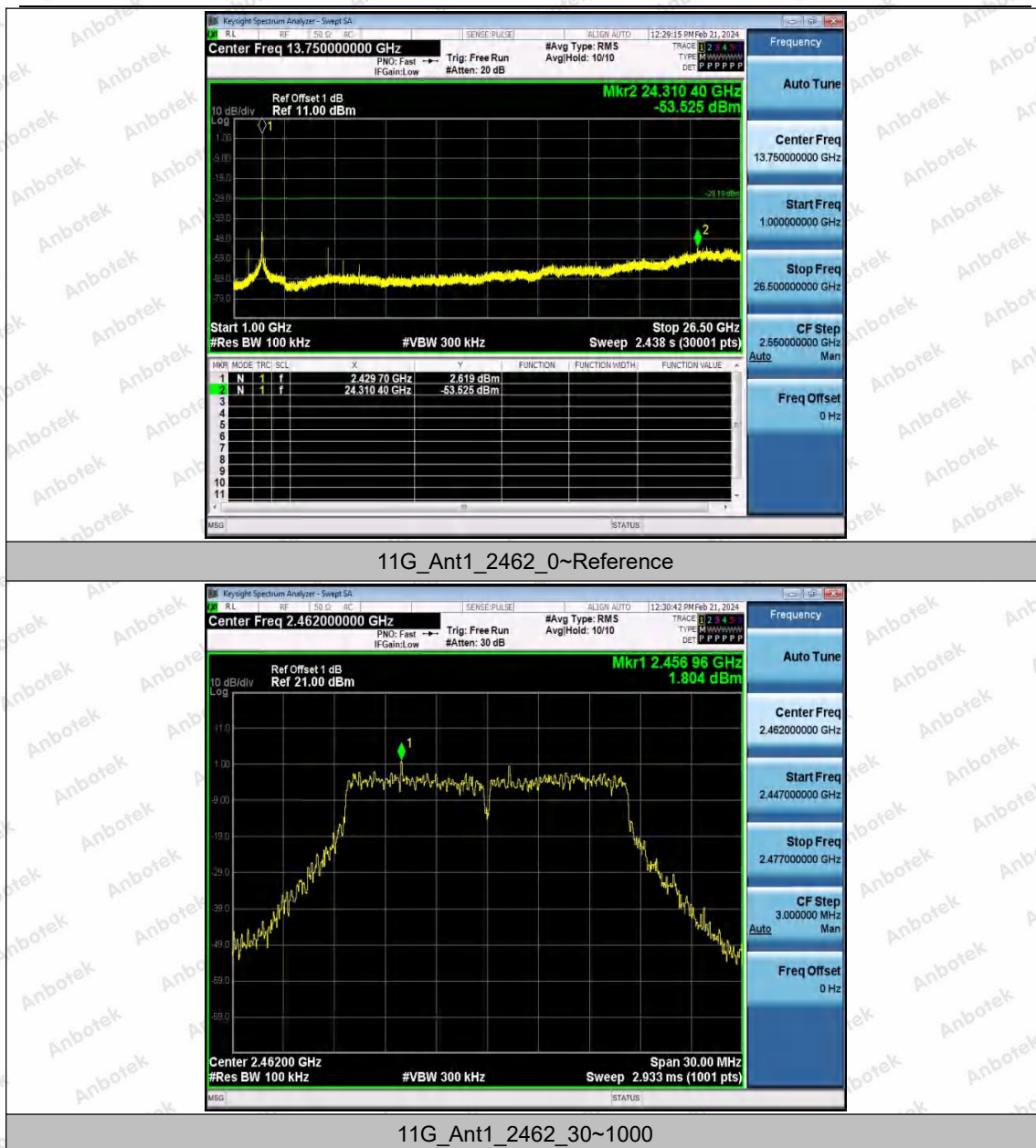
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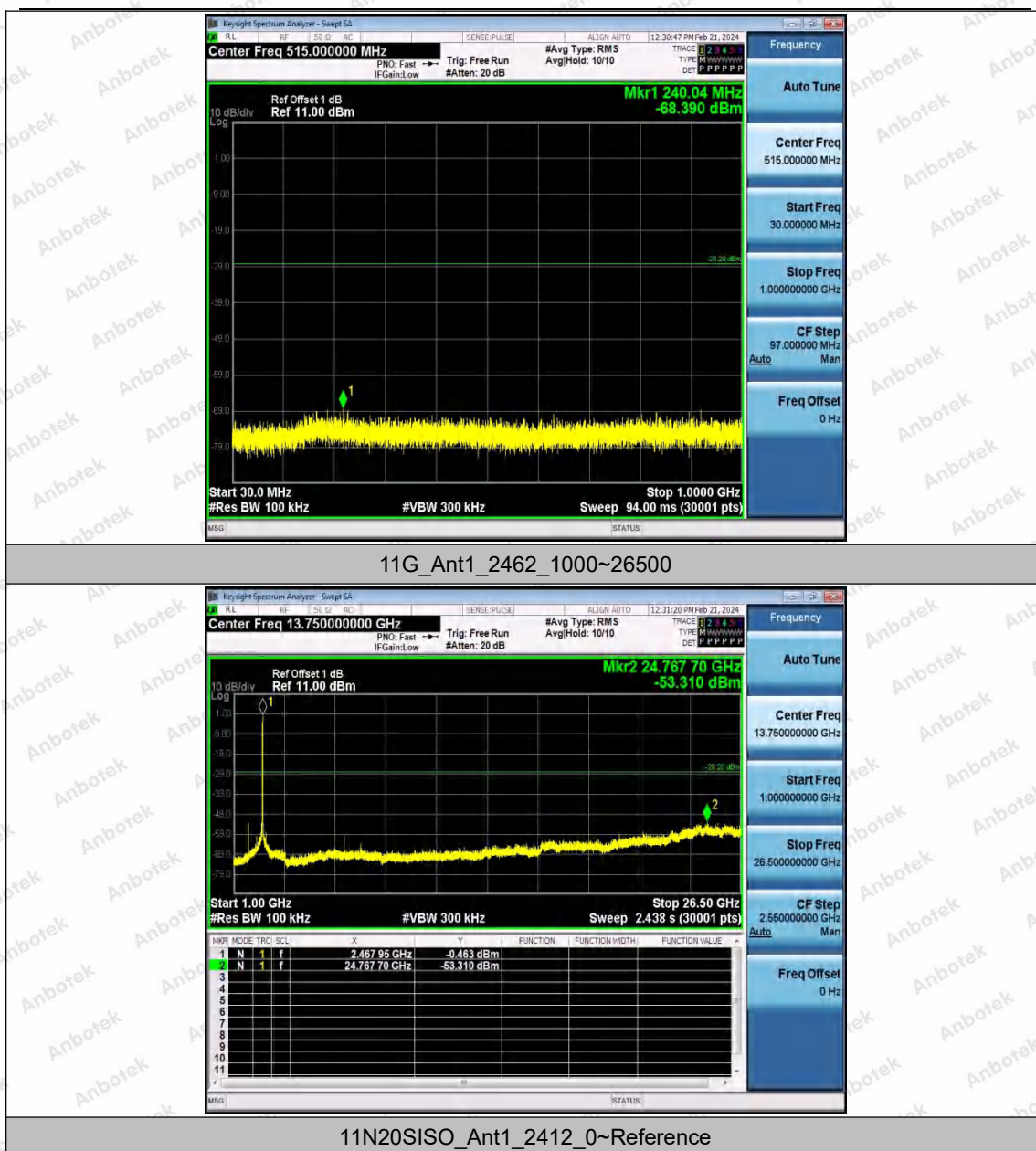
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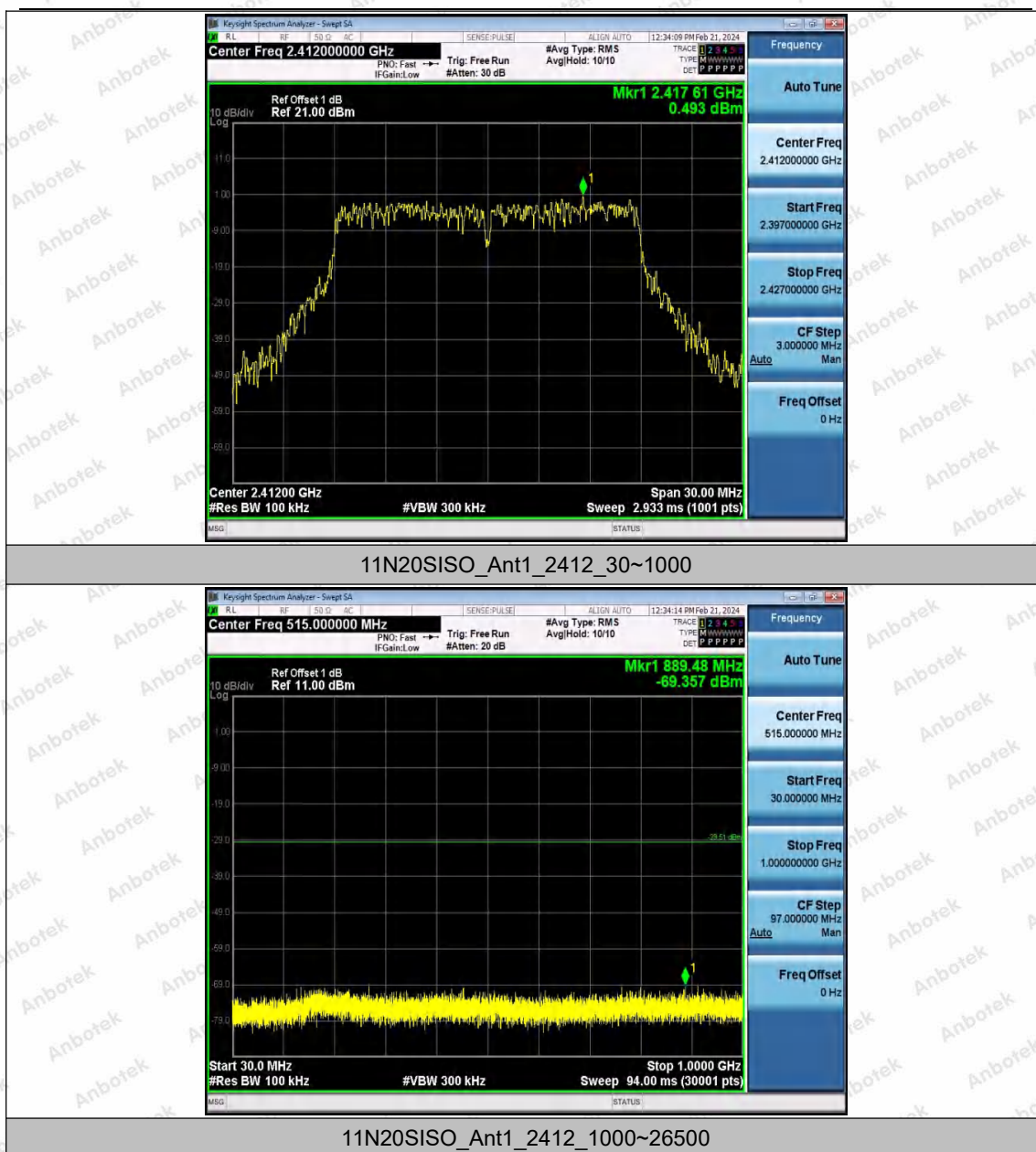
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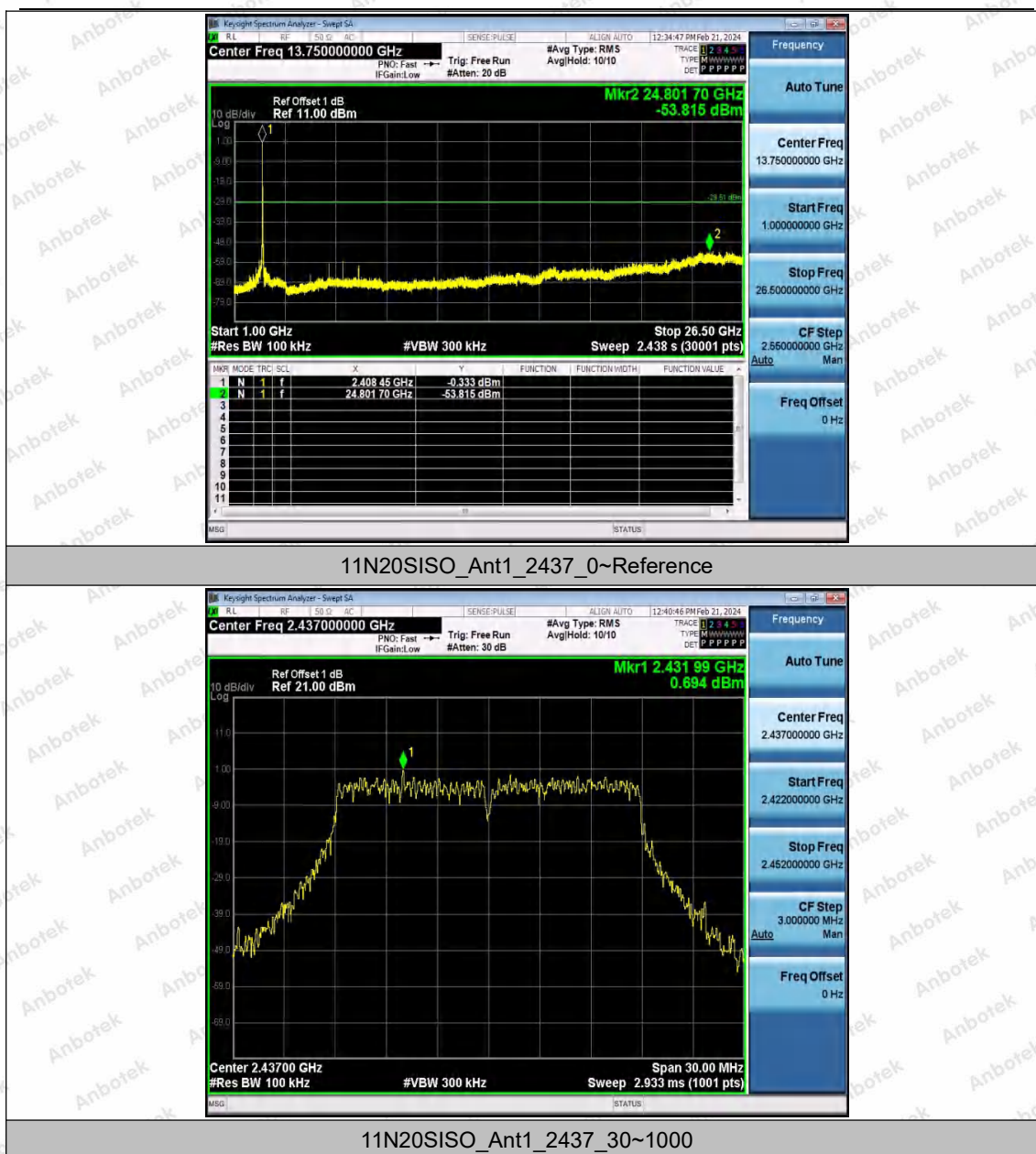
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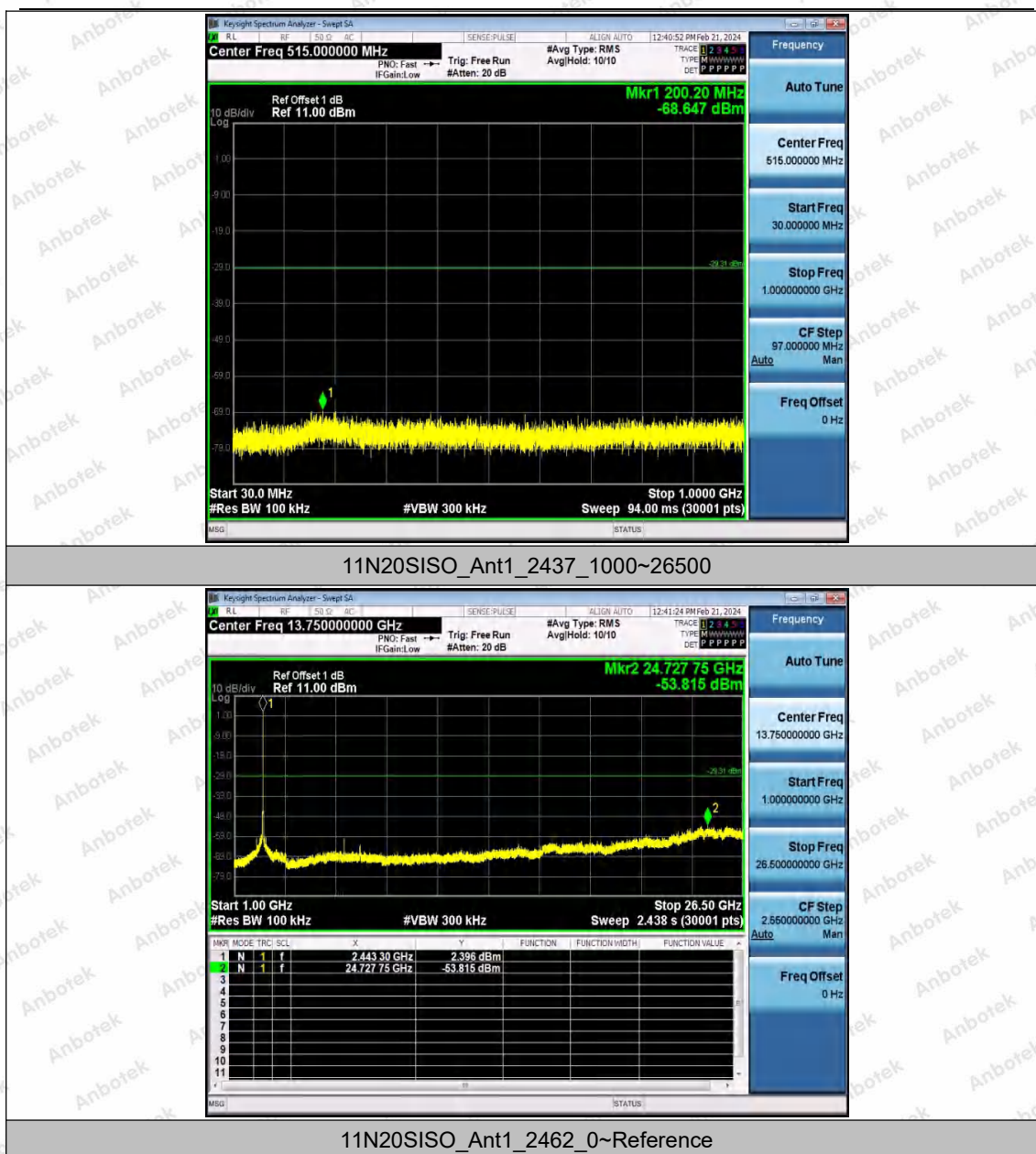
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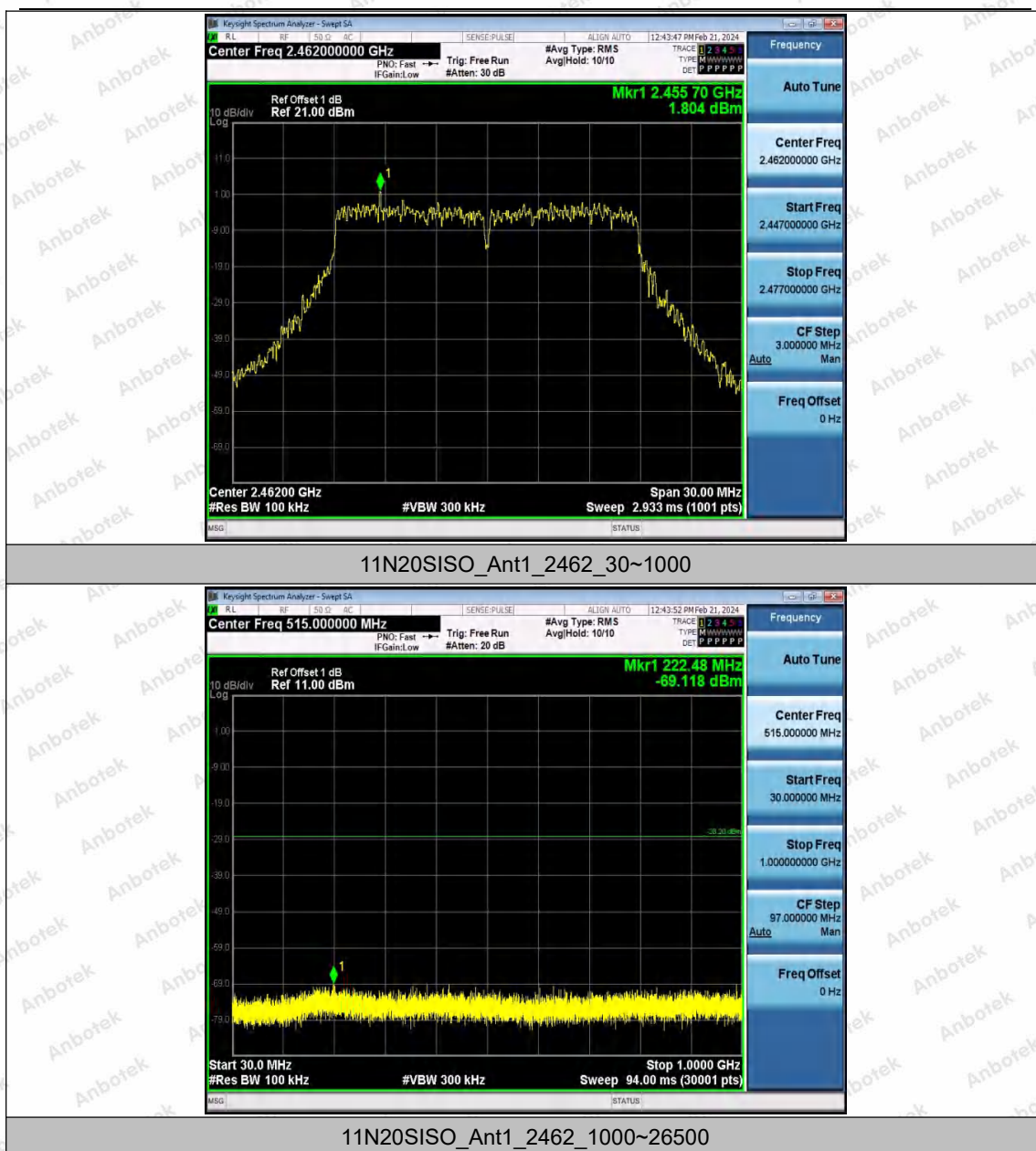
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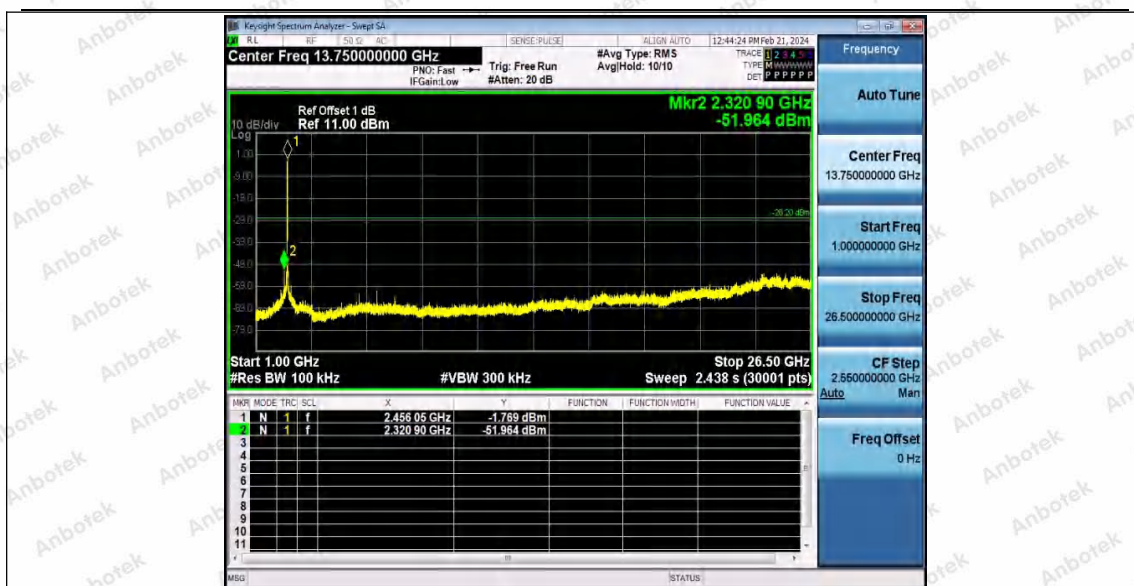
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11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

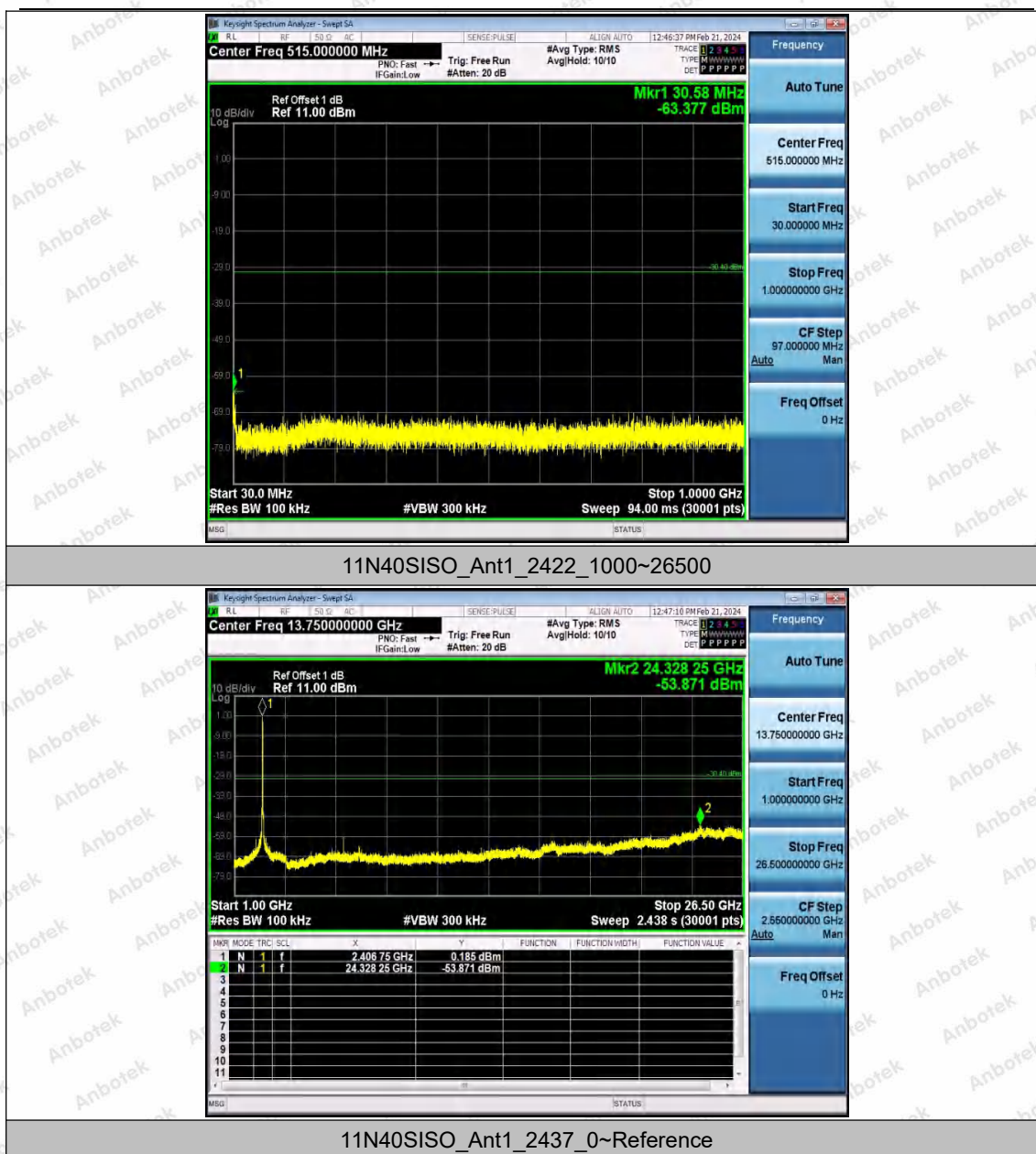
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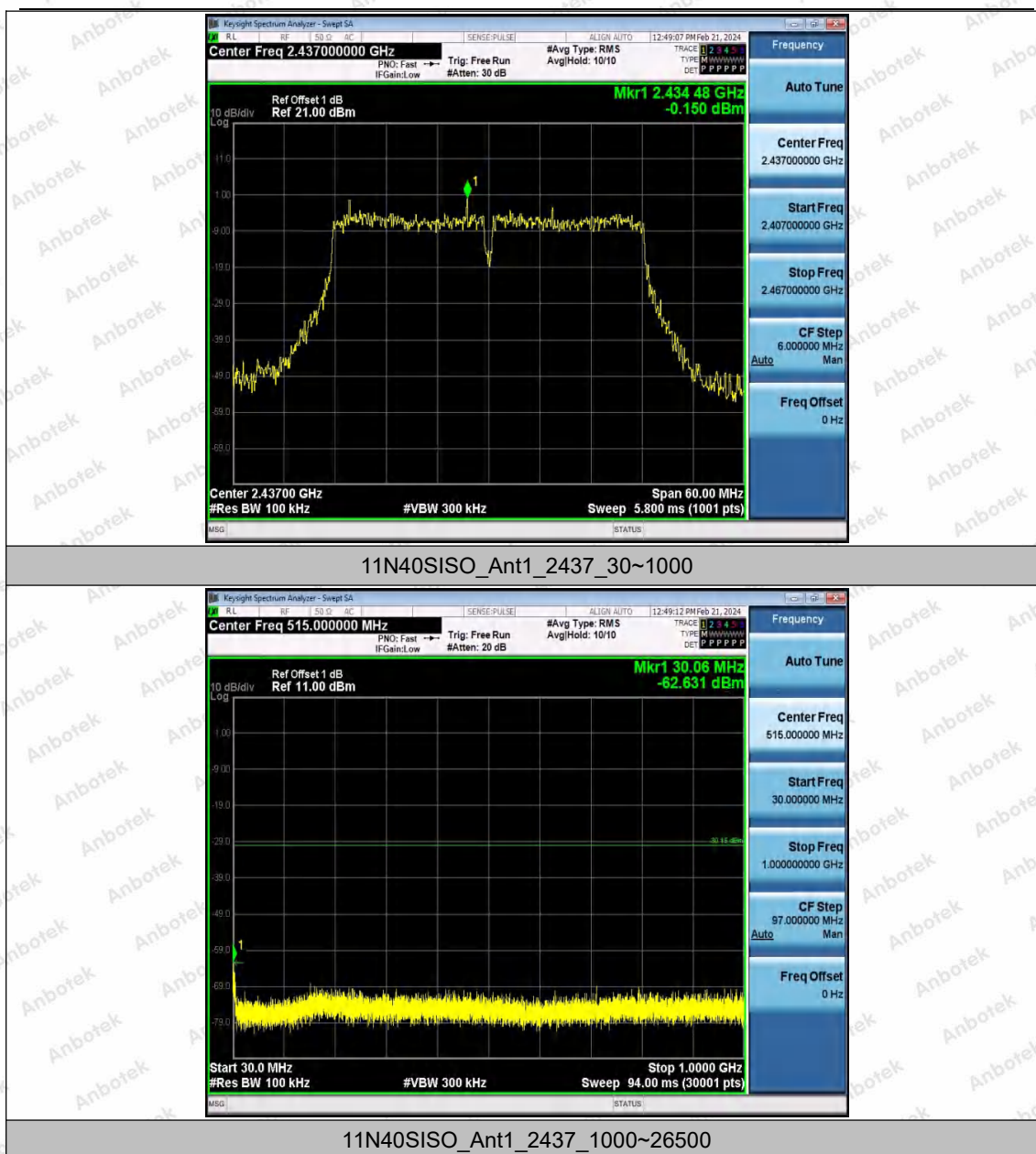
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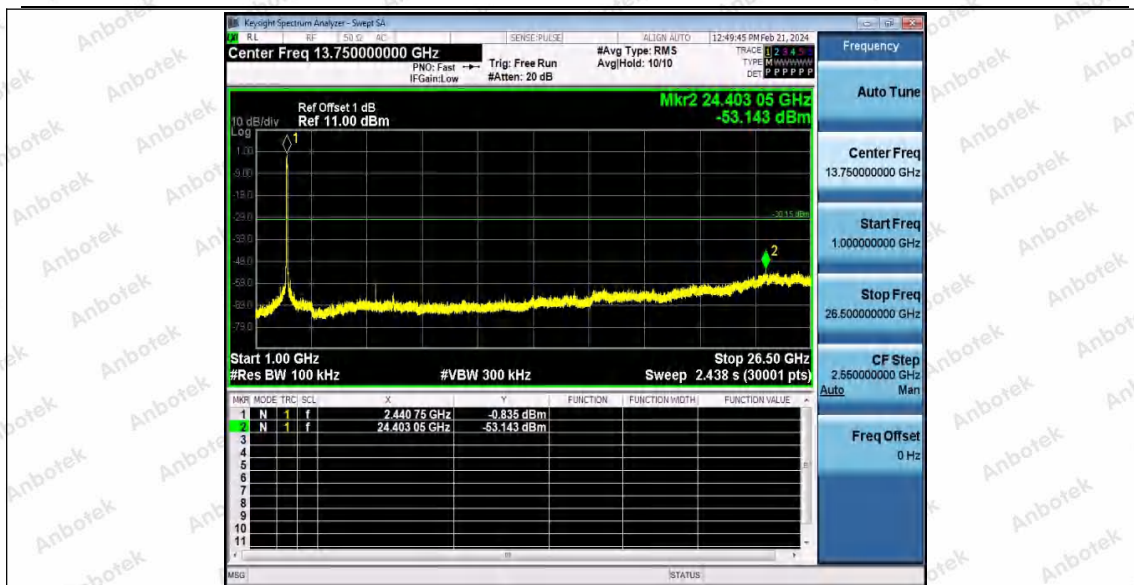
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11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000

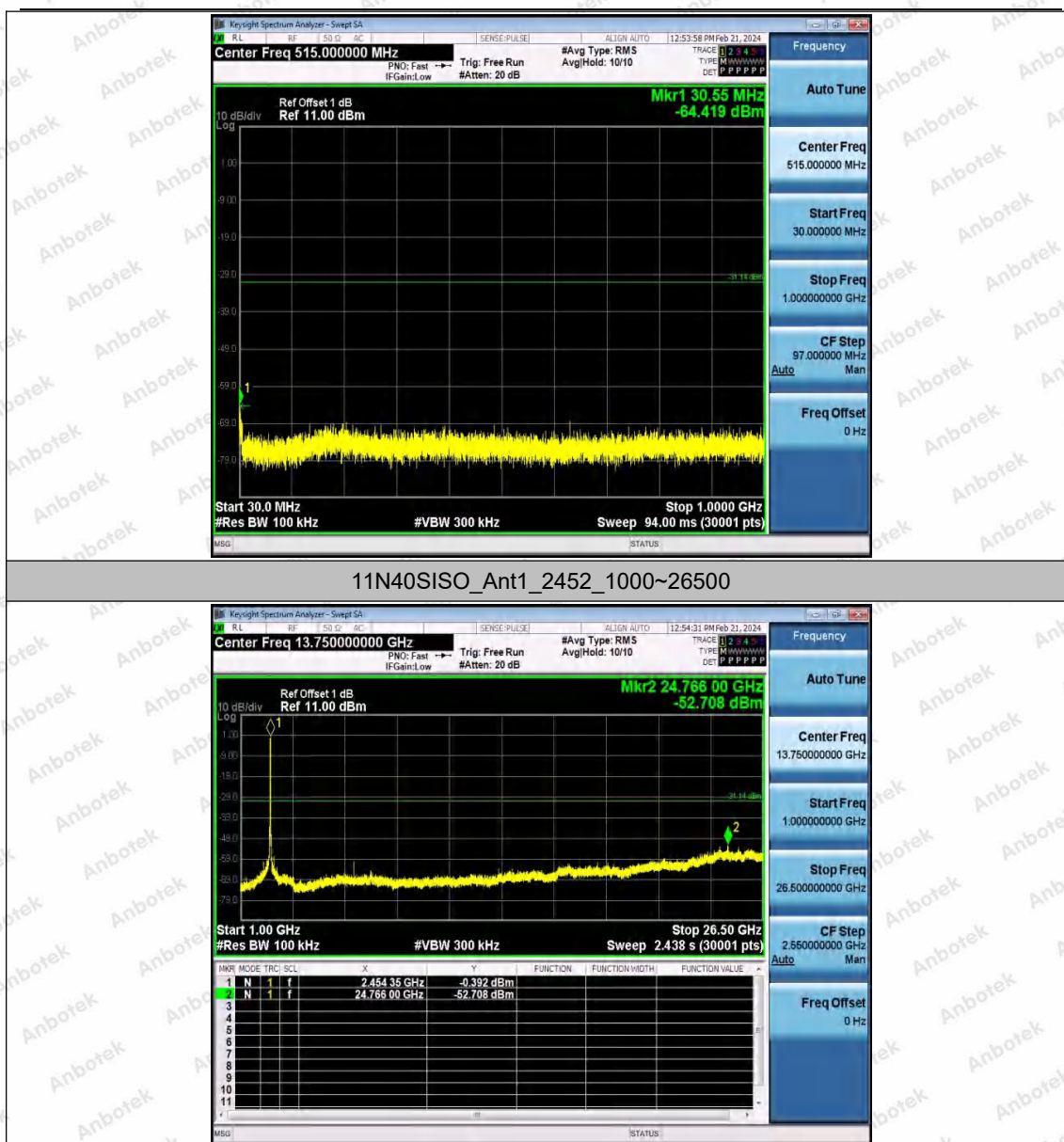
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Appendix G: Duty Cycle

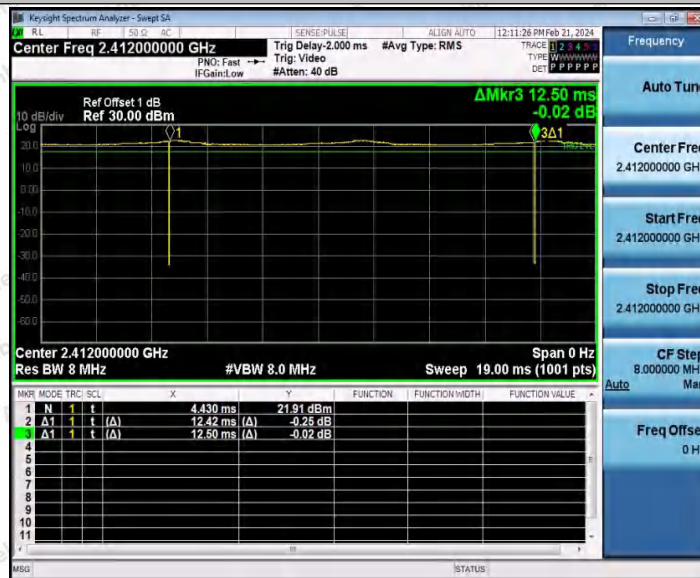
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.50	99.36	0.03
		2437	12.43	12.54	99.12	0.04
		2462	12.43	12.60	98.65	0.06
11G	Ant1	2412	2.07	2.15	96.28	0.16
		2437	2.06	2.20	93.64	0.29
		2462	2.06	2.18	94.50	0.25
11N20SISO	Ant1	2412	1.92	2.01	95.52	0.20
		2437	1.92	2.08	92.31	0.35
		2462	1.92	2.03	94.58	0.24
11N40SISO	Ant1	2422	0.94	1.05	89.52	0.48
		2437	0.95	1.12	84.82	0.72
		2452	0.95	1.00	95.00	0.22



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

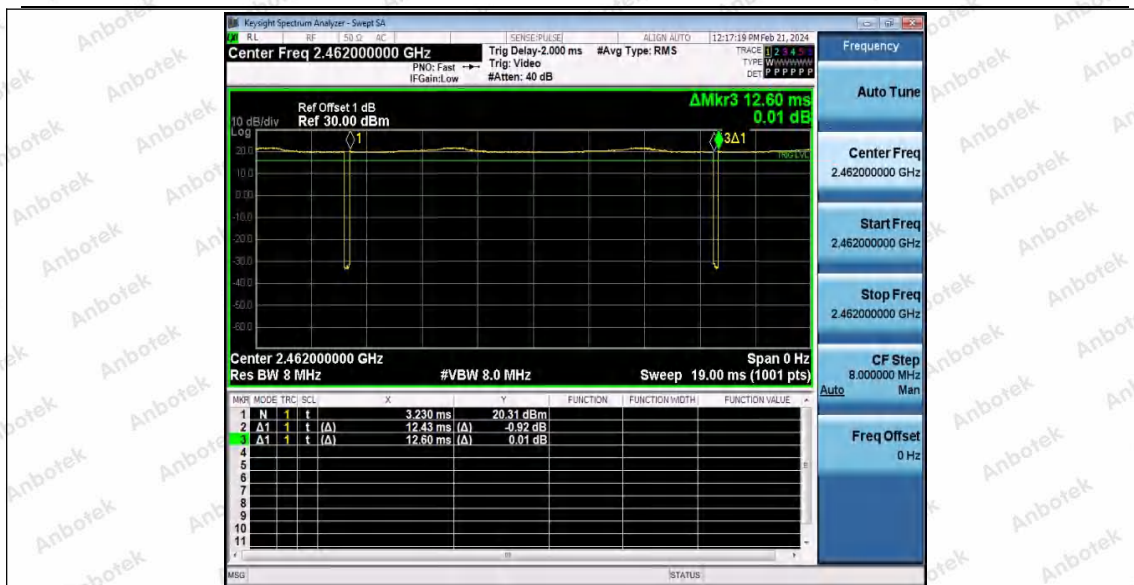
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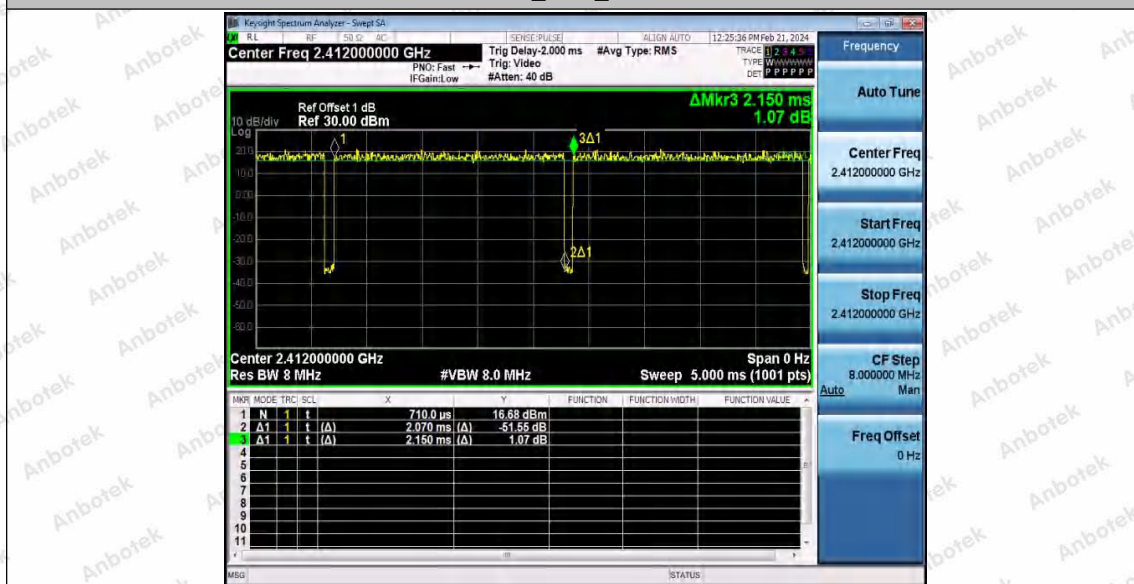


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11G_Ant1_2412



11G_Ant1_2437

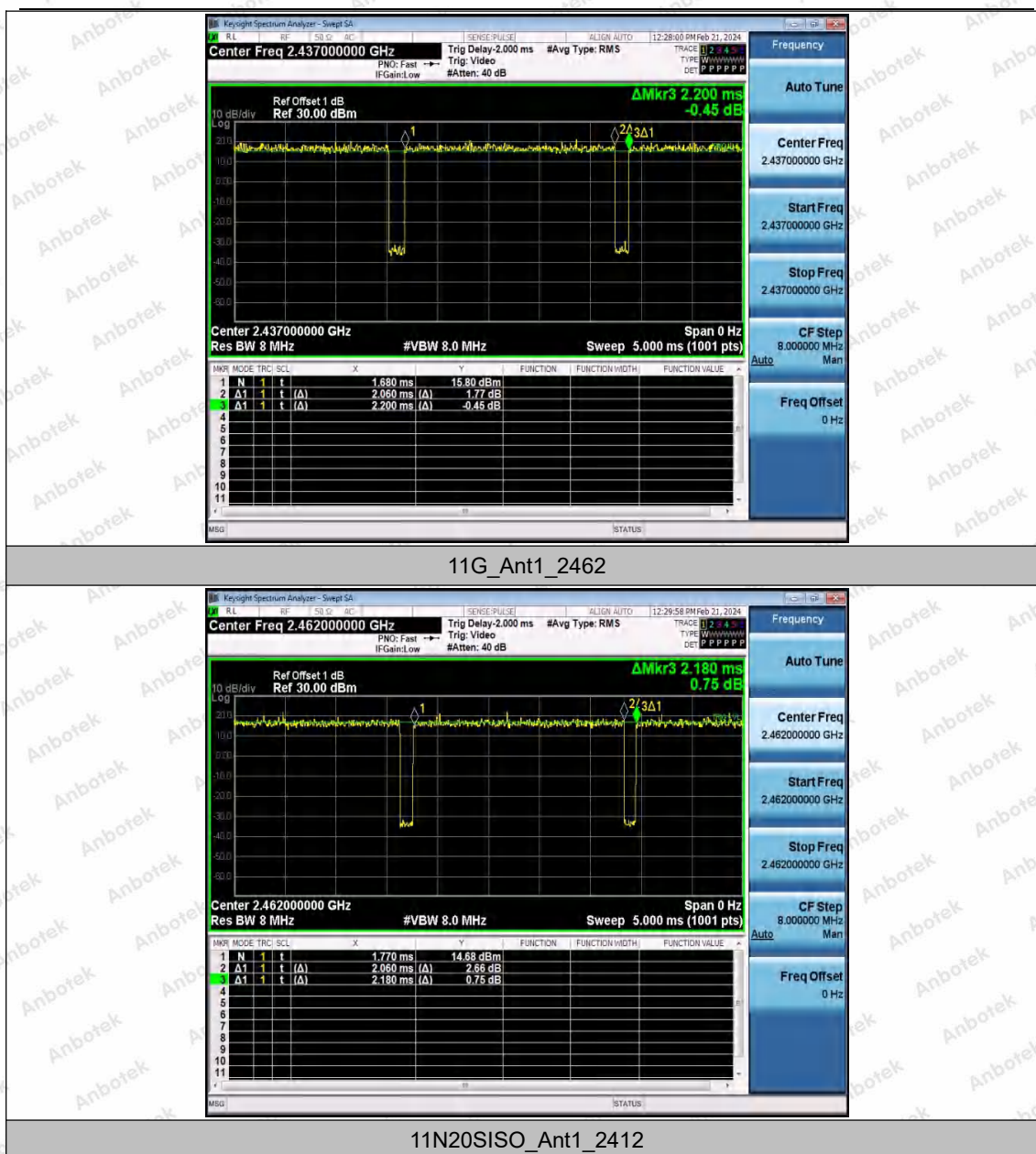
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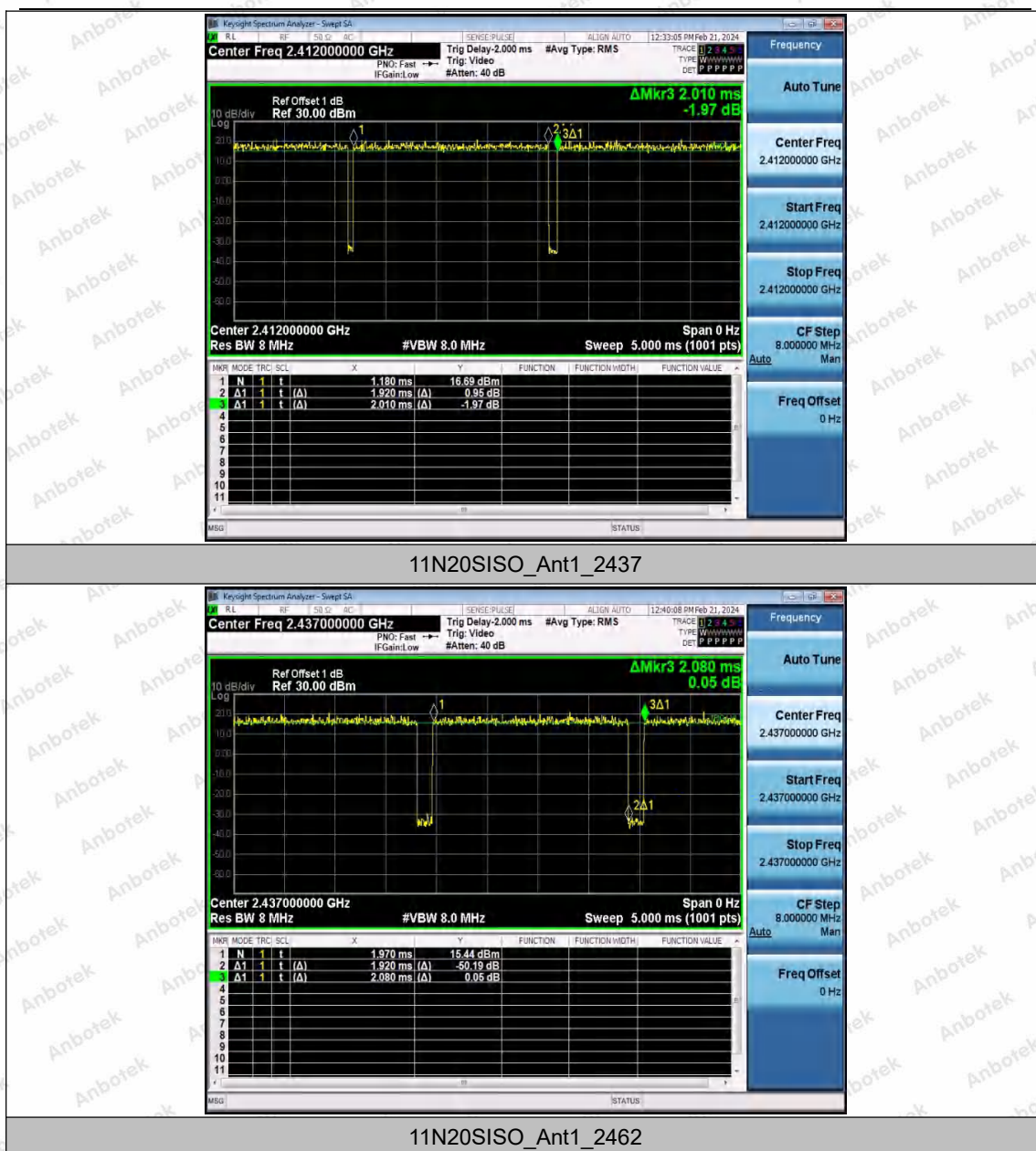
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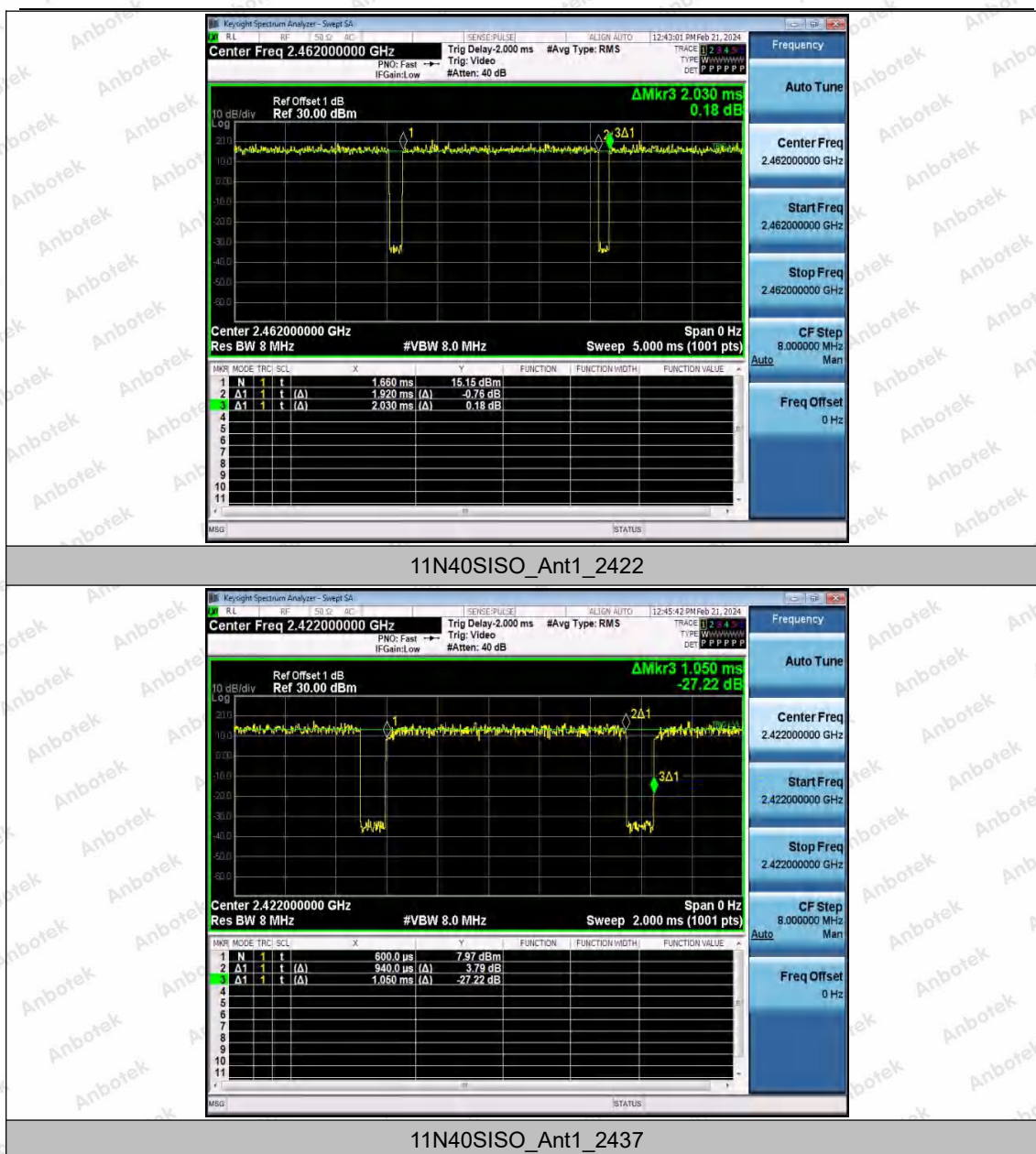
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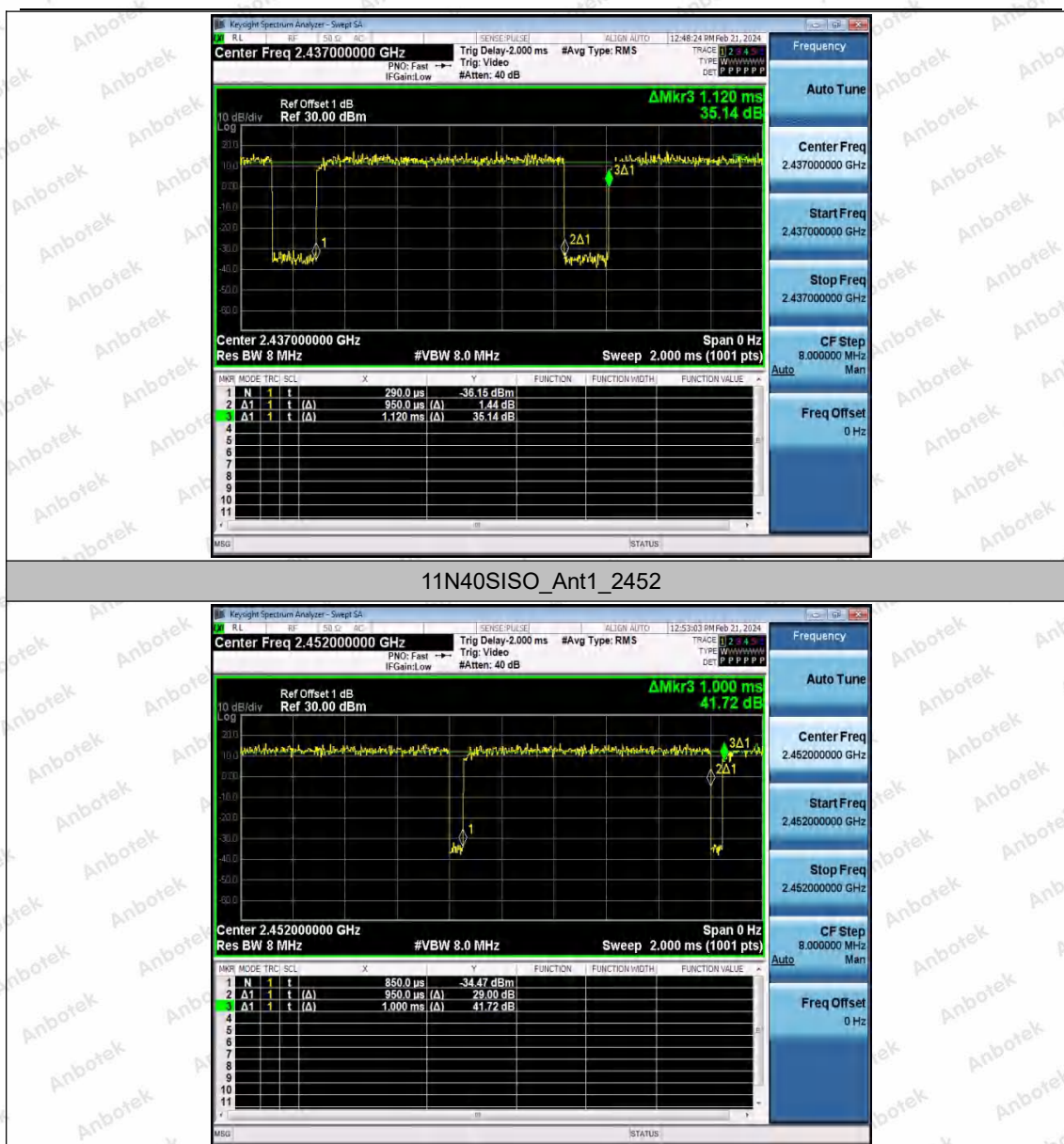
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