

Appendix Test Data

Report No.:	18220WC30275501	Test Sample No.:	1-2-2
Start Test Date:	2024.1.22	Finish Test Date:	2024.03.08
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	25.5°C	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	8.560	2432.960	2441.520	0.5	PASS
		2462	8.040	2458.000	2466.040	0.5	PASS
802.11g	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.440	2453.760	2470.200	0.5	PASS
802.11n(HT20) SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.360	2428.240	2445.600	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS
802.11n(HT40) SISO	Ant1	2422	32.720	2404.320	2437.040	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	30.080	2438.160	2468.240	0.5	PASS



Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

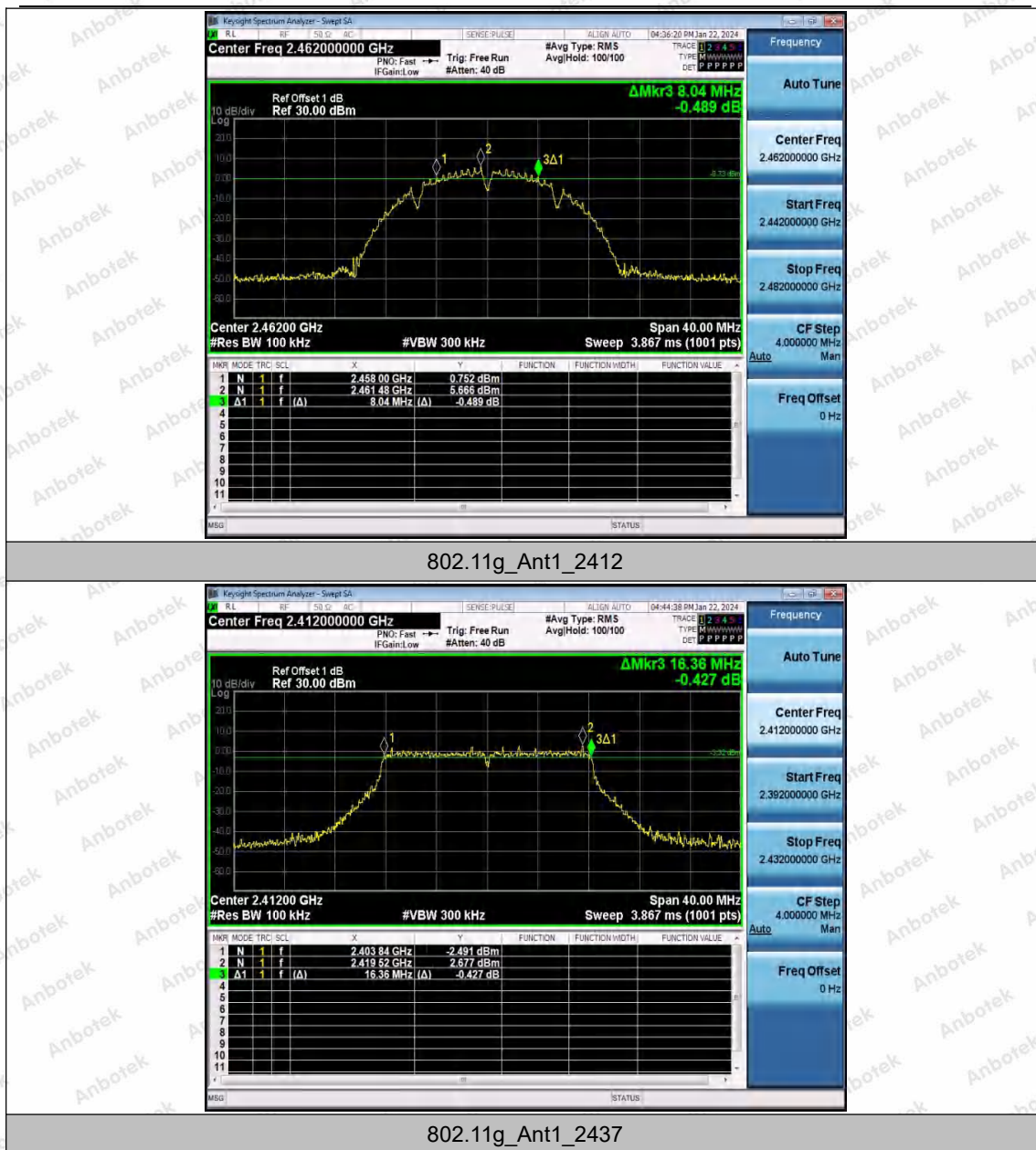
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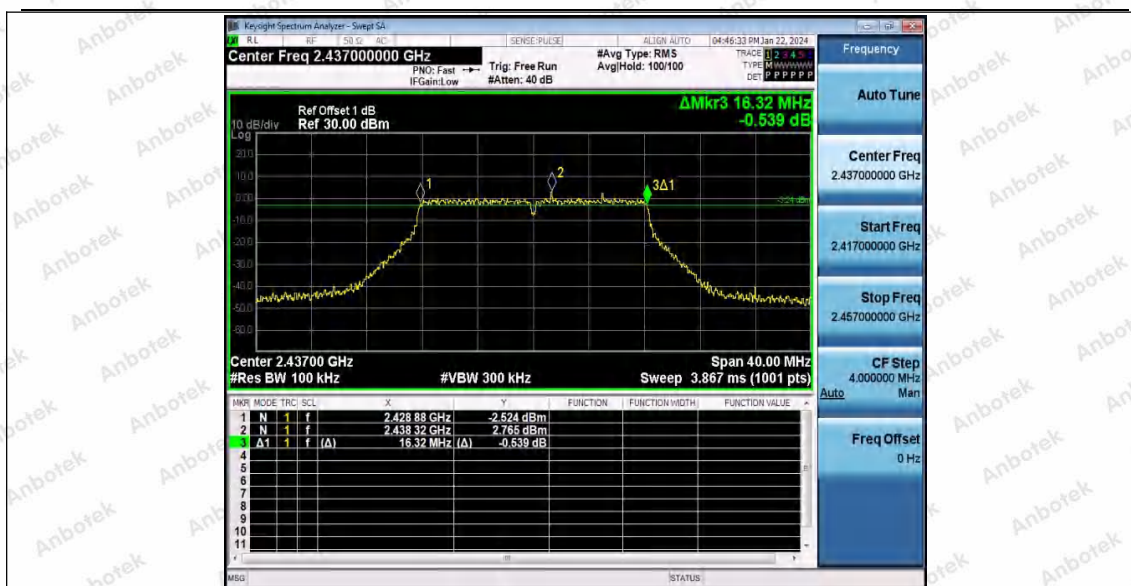
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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412

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802.11n(HT20) SISO_Ant1_2437



802.11n(HT20) SISO_Ant1_2462



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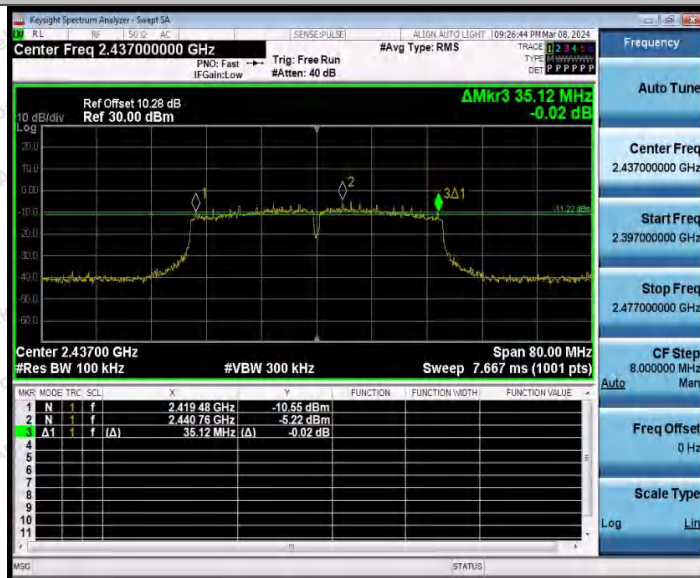
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802.11n(HT40) SISO_Ant1_2422



802.11n(HT40) SISO_Ant1_2437



802.11n(HT40) SISO_Ant1_2452

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Appendix B: Maximum conducted output power

Test Result

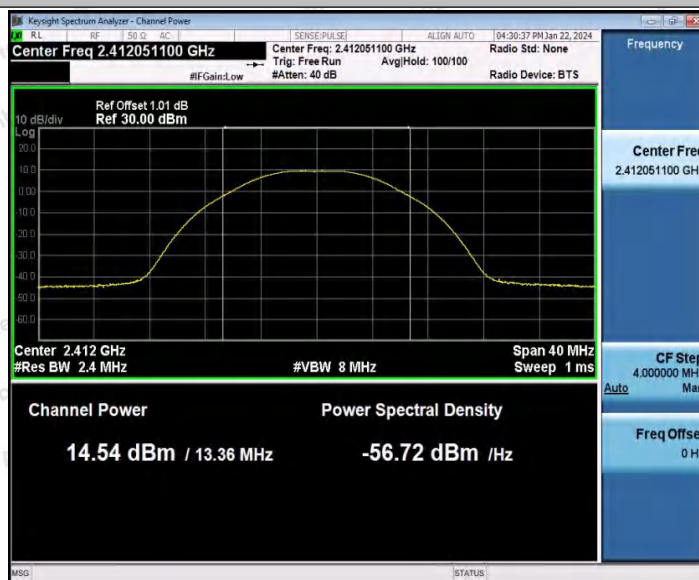
TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
802.11b	Ant1	2412	14.54	≤30.00
		2437	14.44	≤30.00
		2462	13.77	≤30.00
802.11g	Ant1	2412	14.07	≤30.00
		2437	14.03	≤30.00
		2462	13.69	≤30.00
802.11n(HT20) SISO	Ant1	2412	13.98	≤30.00
		2437	14.00	≤30.00
		2462	13.16	≤30.00
802.11n(HT40) SISO	Ant1	2422	14.71	≤30.00
		2437	14.67	≤30.00
		2452	15.37	≤30.00

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

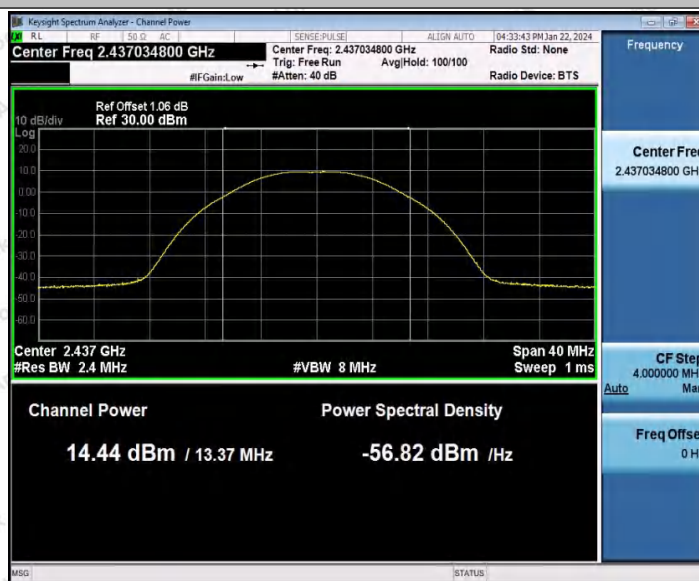


Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

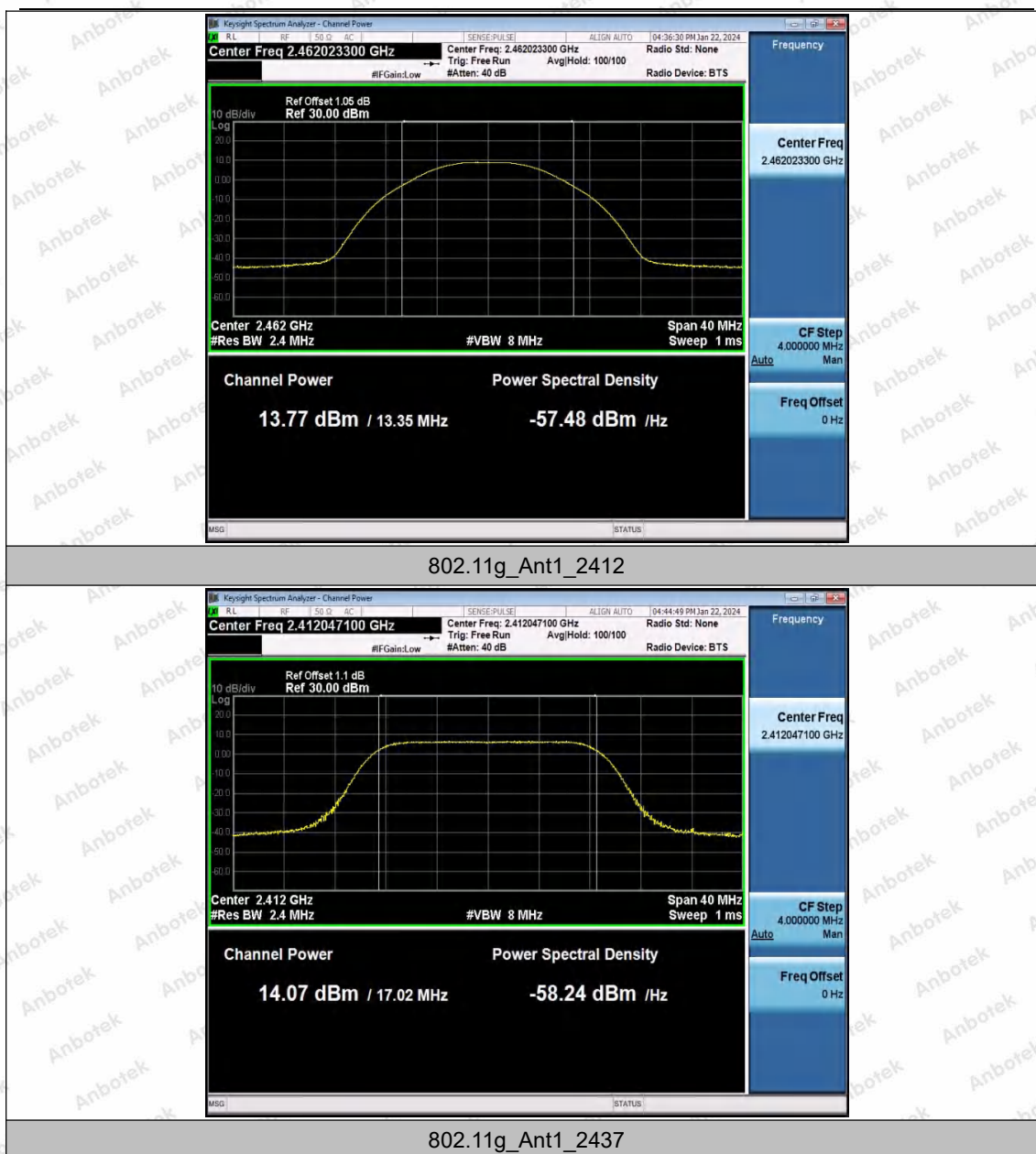
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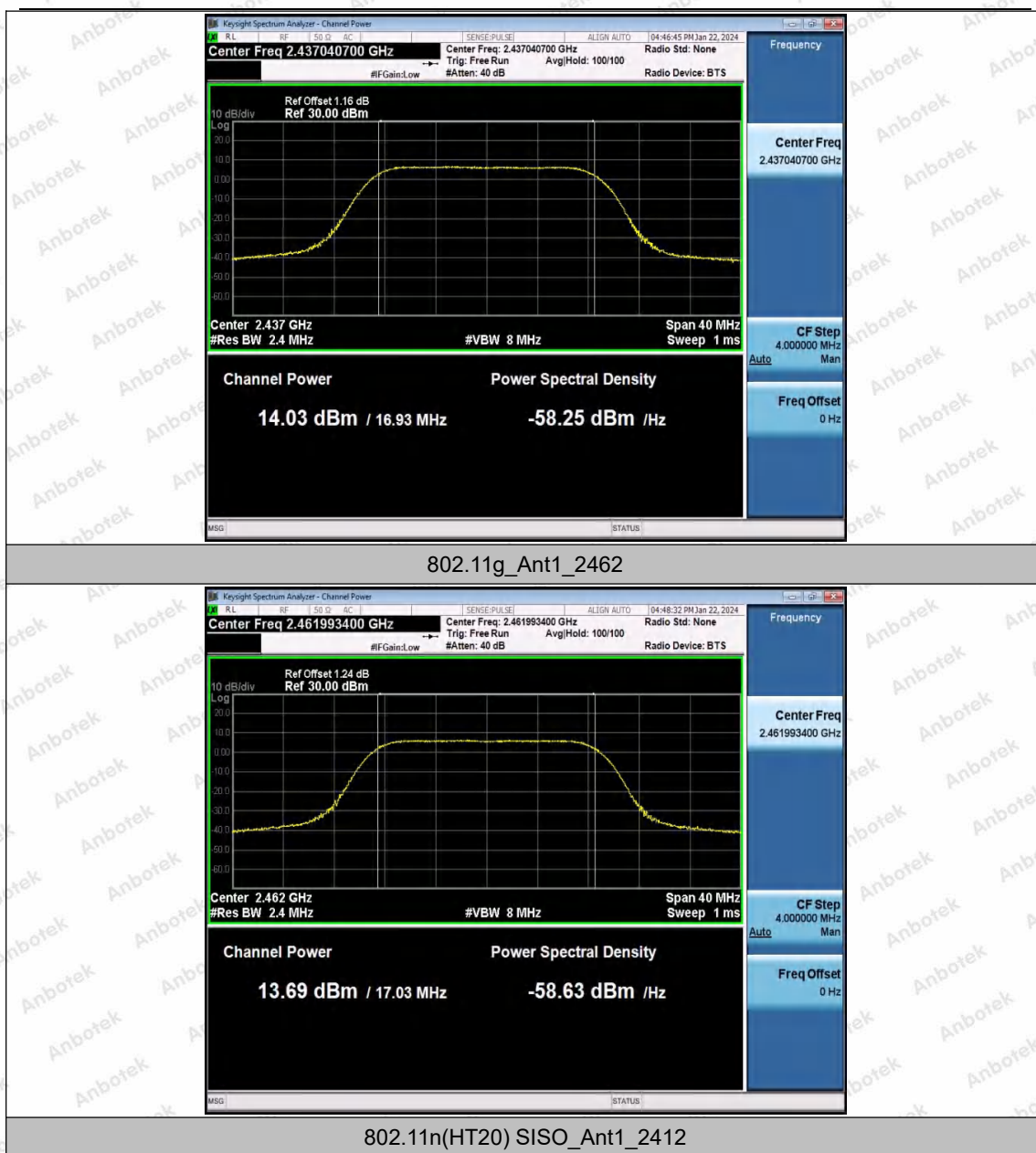
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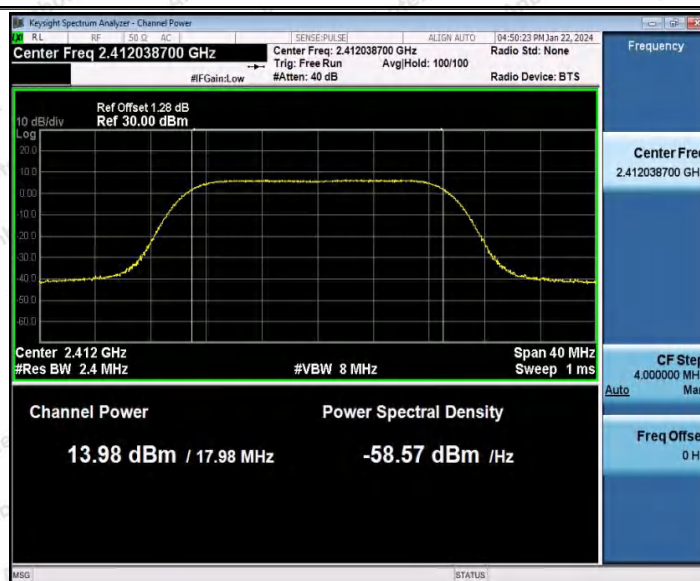
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802.11n(HT20) SISO_Ant1_2437



802.11n(HT20) SISO_Ant1_2462

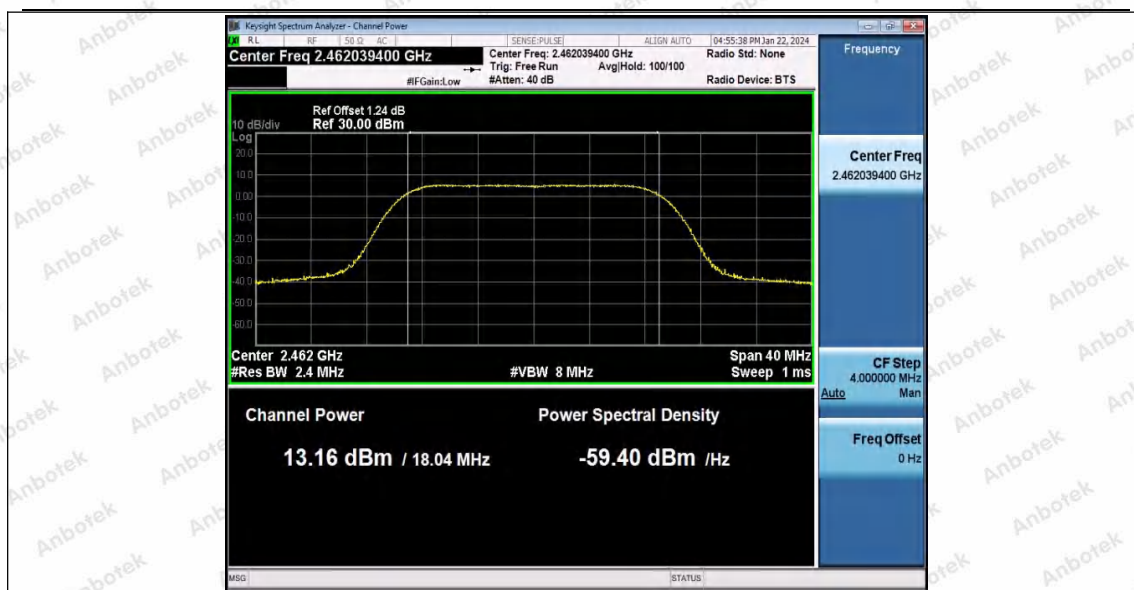
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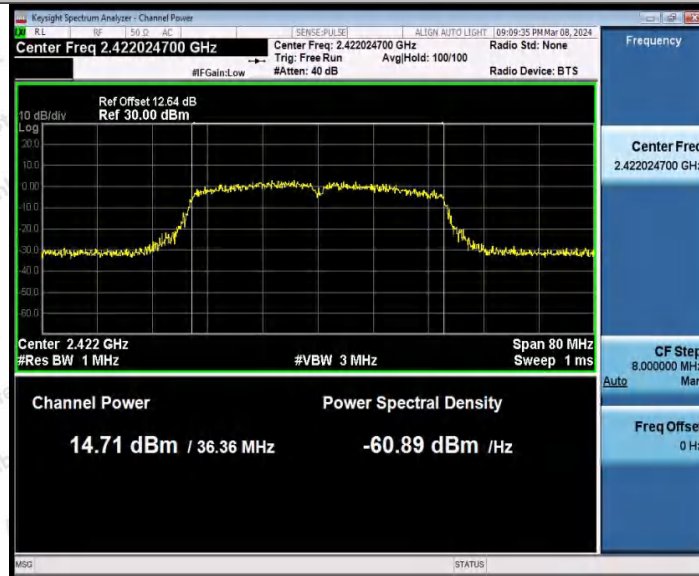
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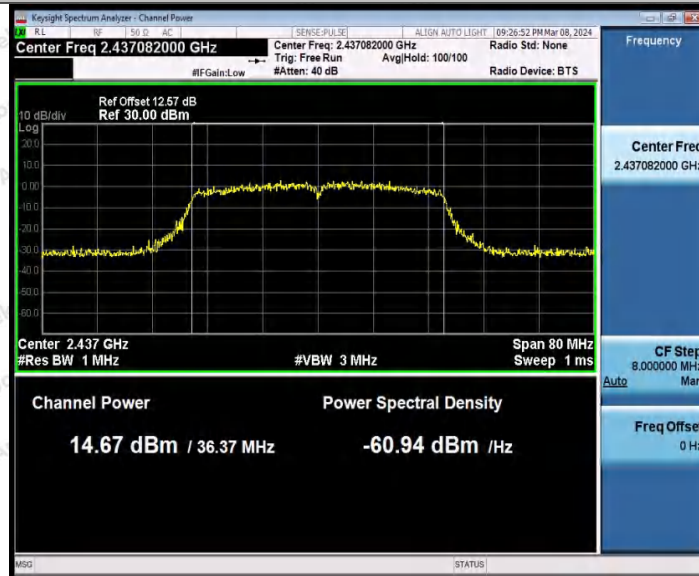
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802.11n(HT40) SISO_Ant1_2422



802.11n(HT40) SISO_Ant1_2437



802.11n(HT40) SISO_Ant1_2452

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Appendix C: Power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
802.11b	Ant1	2412	-6.75	-16.75	≤8.00	PASS
		2437	-6.62	-16.62	≤8.00	PASS
		2462	-7.52	-17.52	≤8.00	PASS
802.11g	Ant1	2412	-9.72	-19.72	≤8.00	PASS
		2437	-9.67	-19.67	≤8.00	PASS
		2462	-9.74	-19.74	≤8.00	PASS
802.11n(HT20) SISO	Ant1	2412	-9.57	-19.57	≤8.00	PASS
		2437	-10.23	-20.23	≤8.00	PASS
		2462	-10.59	-20.59	≤8.00	PASS
802.11n(HT40) SISO	Ant1	2422	-17.83	-27.83	≤8.00	PASS
		2437	-18.10	-28.10	≤8.00	PASS
		2452	-17.39	-27.39	≤8.00	PASS

Note:

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



Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

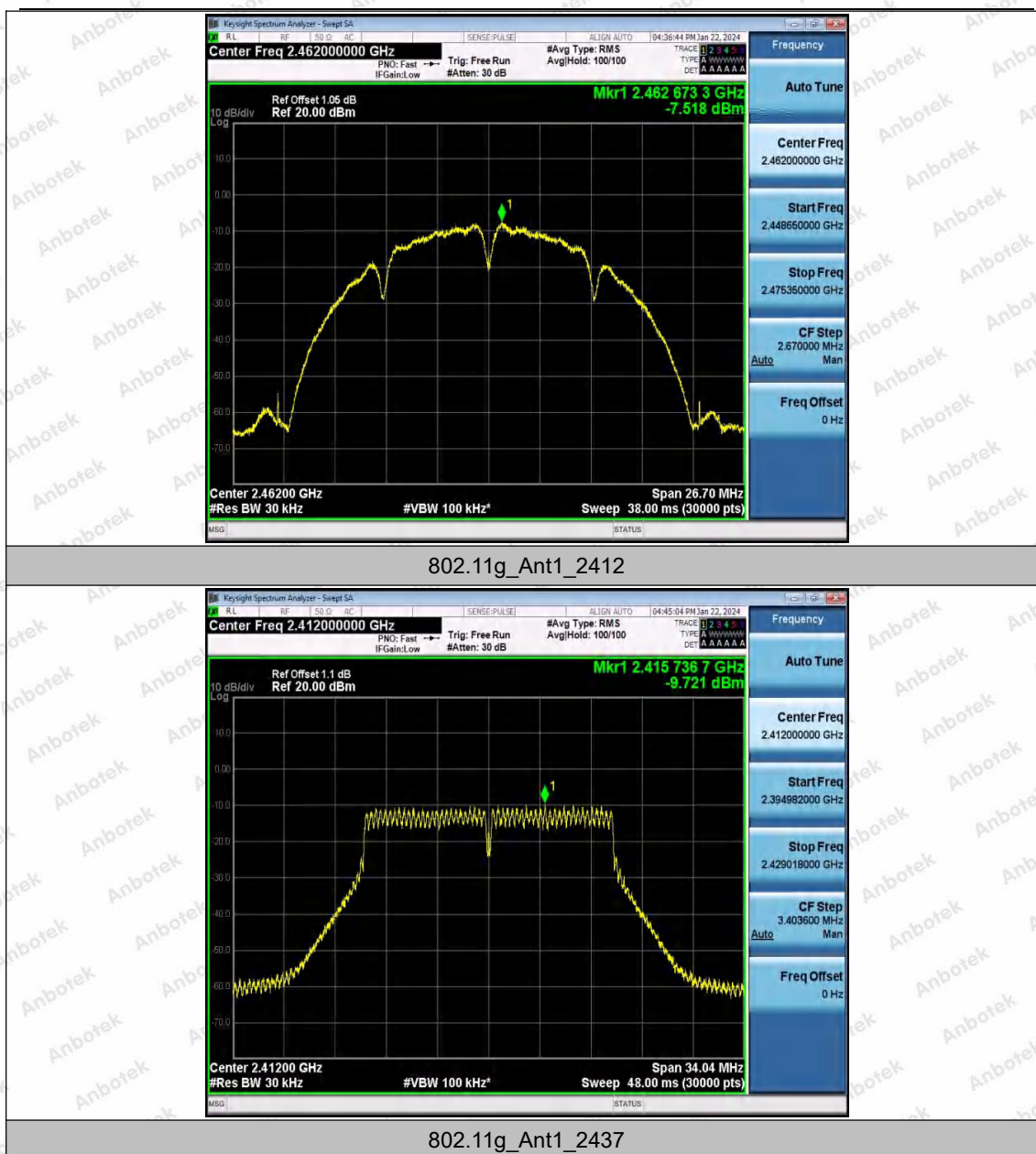
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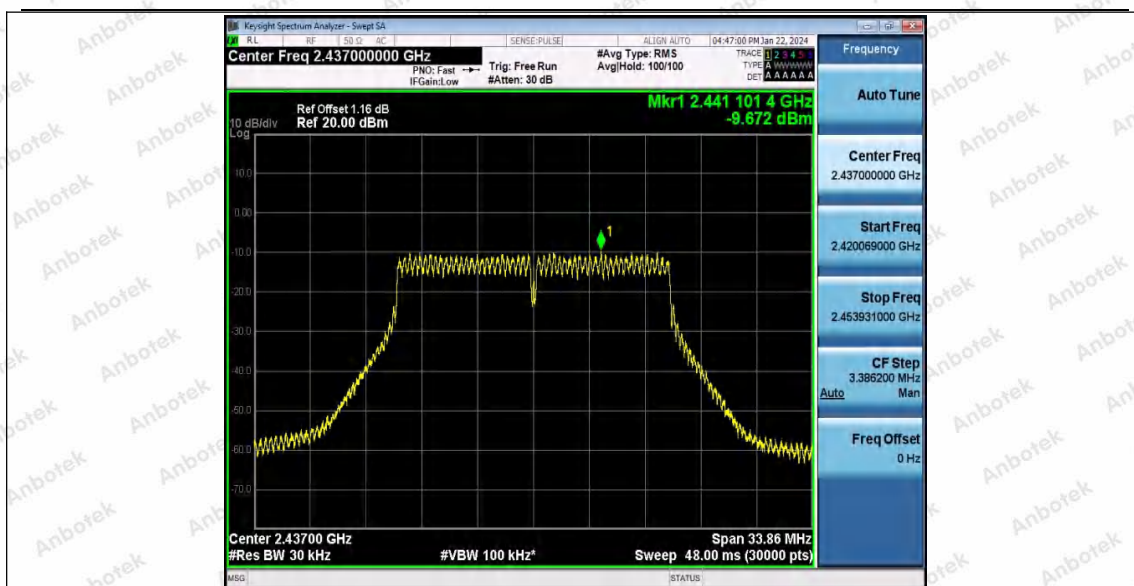
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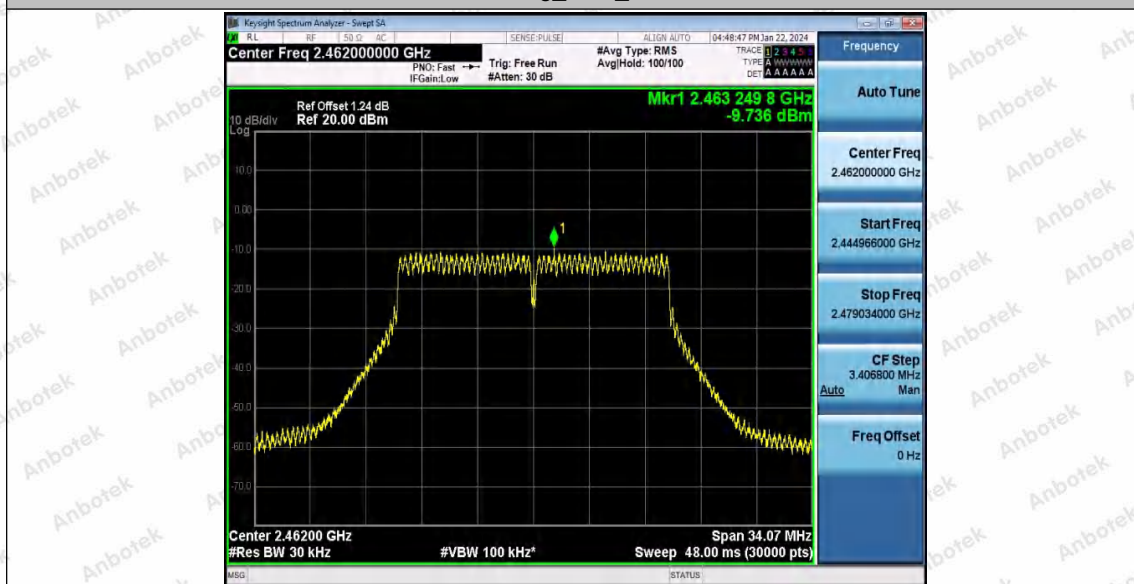


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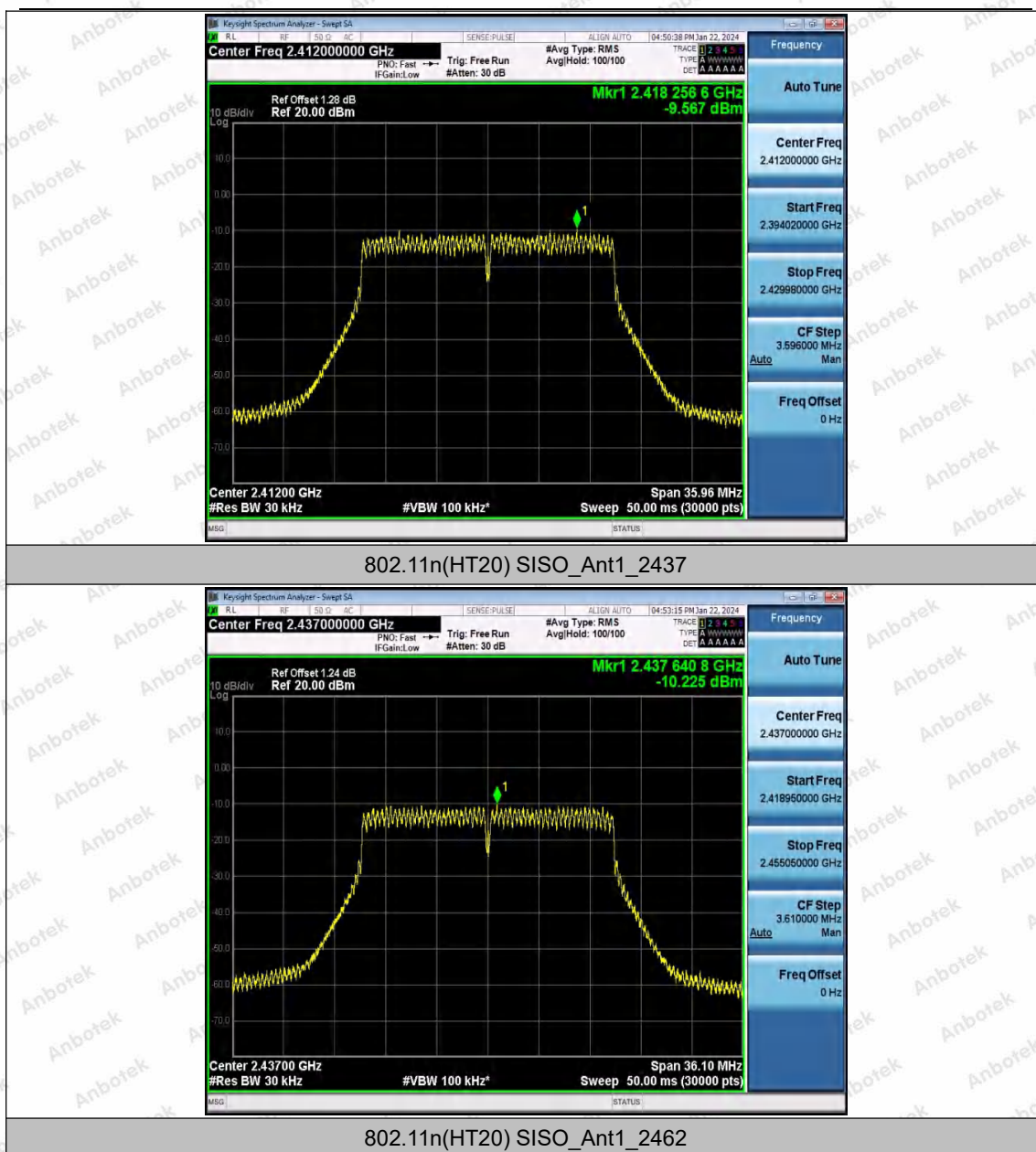


802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



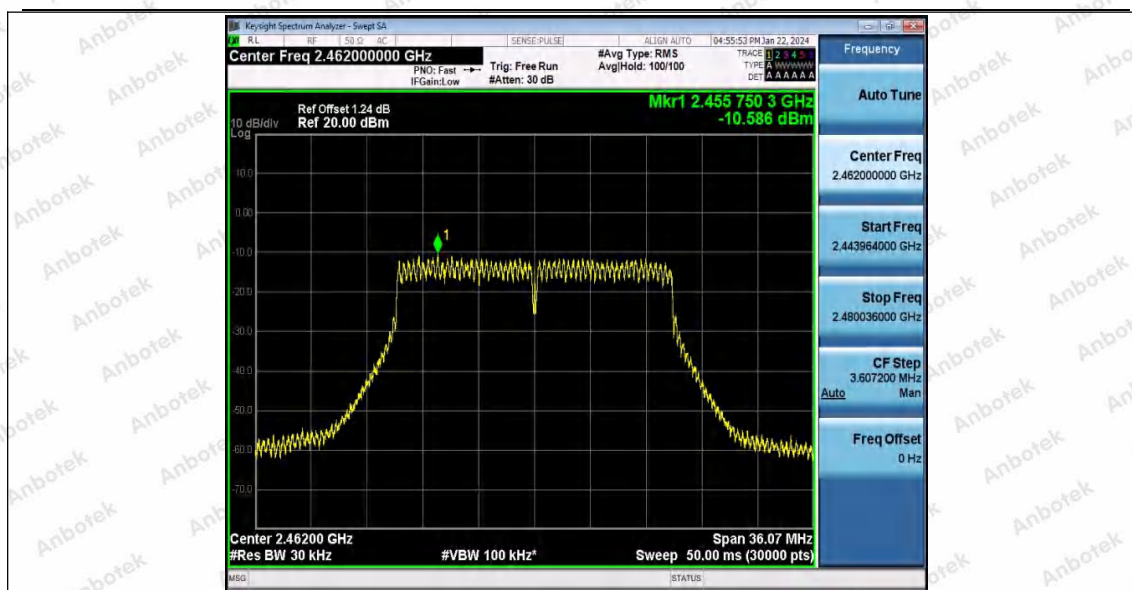
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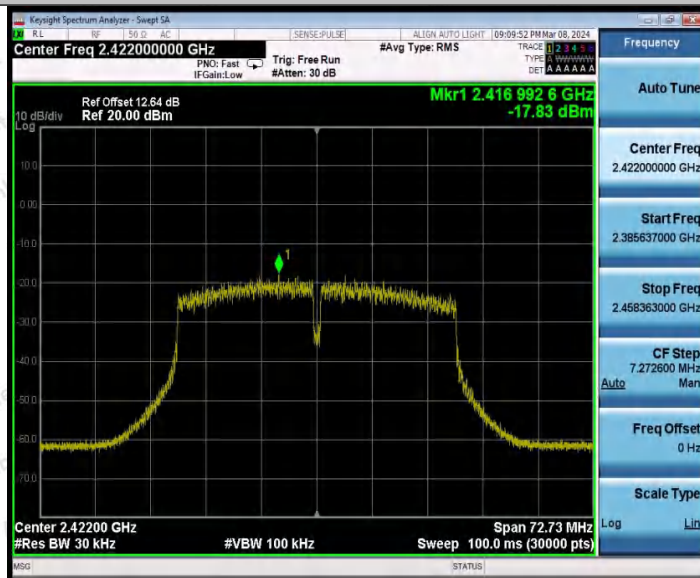
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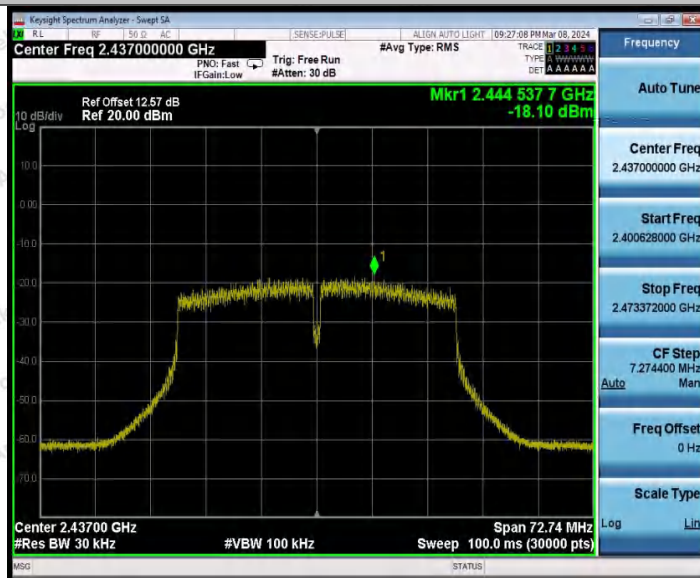
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802.11n(HT40) SISO_Ant1_2422



802.11n(HT40) SISO_Ant1_2437



802.11n(HT40) SISO_Ant1_2452

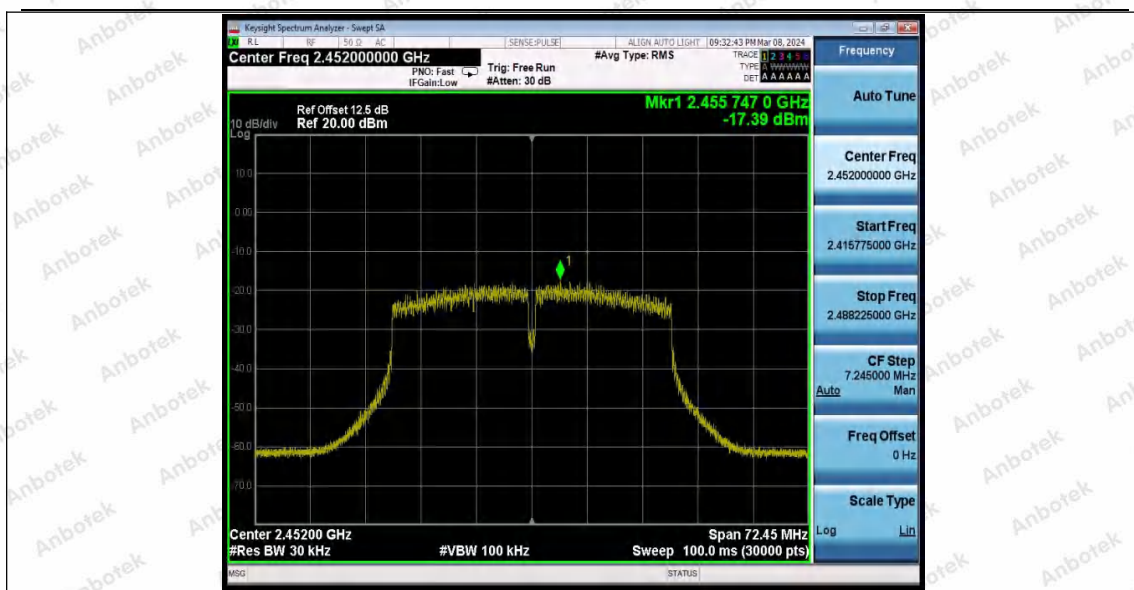
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Appendix D: Band edge measurements

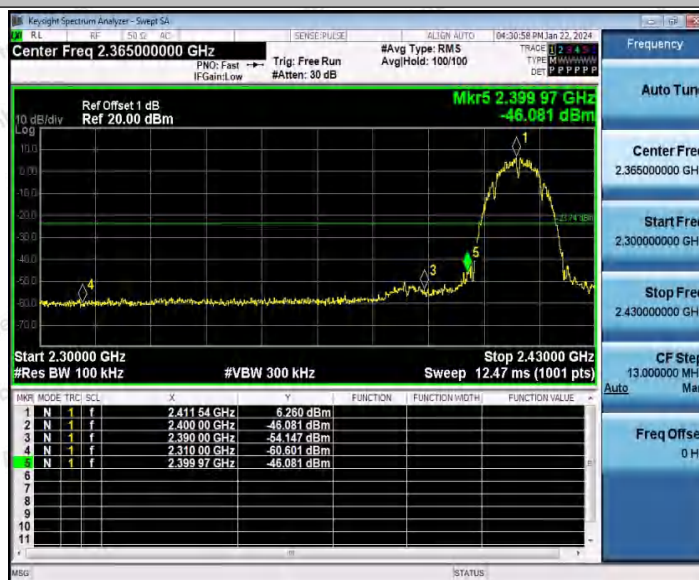
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	6.26	-46.08	≤-23.74	PASS
		High	2462	5.64	-51.6	≤-24.36	PASS
802.11g	Ant1	Low	2412	2.04	-37.89	≤-27.96	PASS
		High	2462	1.88	-46.78	≤-28.12	PASS
802.11n(HT20) SISO	Ant1	Low	2412	2.61	-37.22	≤-27.39	PASS
		High	2462	1.84	-46.28	≤-28.16	PASS
802.11n(HT40) SISO	Ant1	Low	2422	-5.24	-39	≤-35.24	PASS
		High	2452	-4.74	-46.47	≤-34.74	PASS

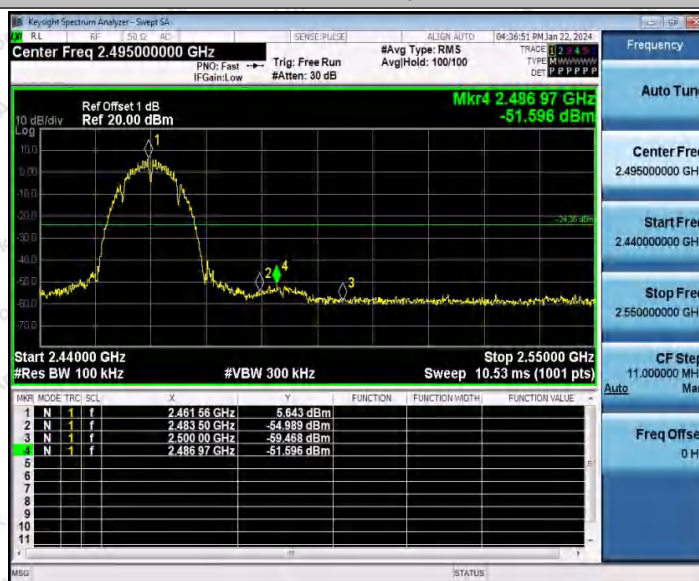


Test Graphs

802.11b_Ant1_Low_2412



802.11b_Ant1_High_2462



802.11g_Ant1_Low_2412

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802.11n(HT40) SISO_Ant1_Low_2422



802.11n(HT40) SISO_Ant1_High_2452



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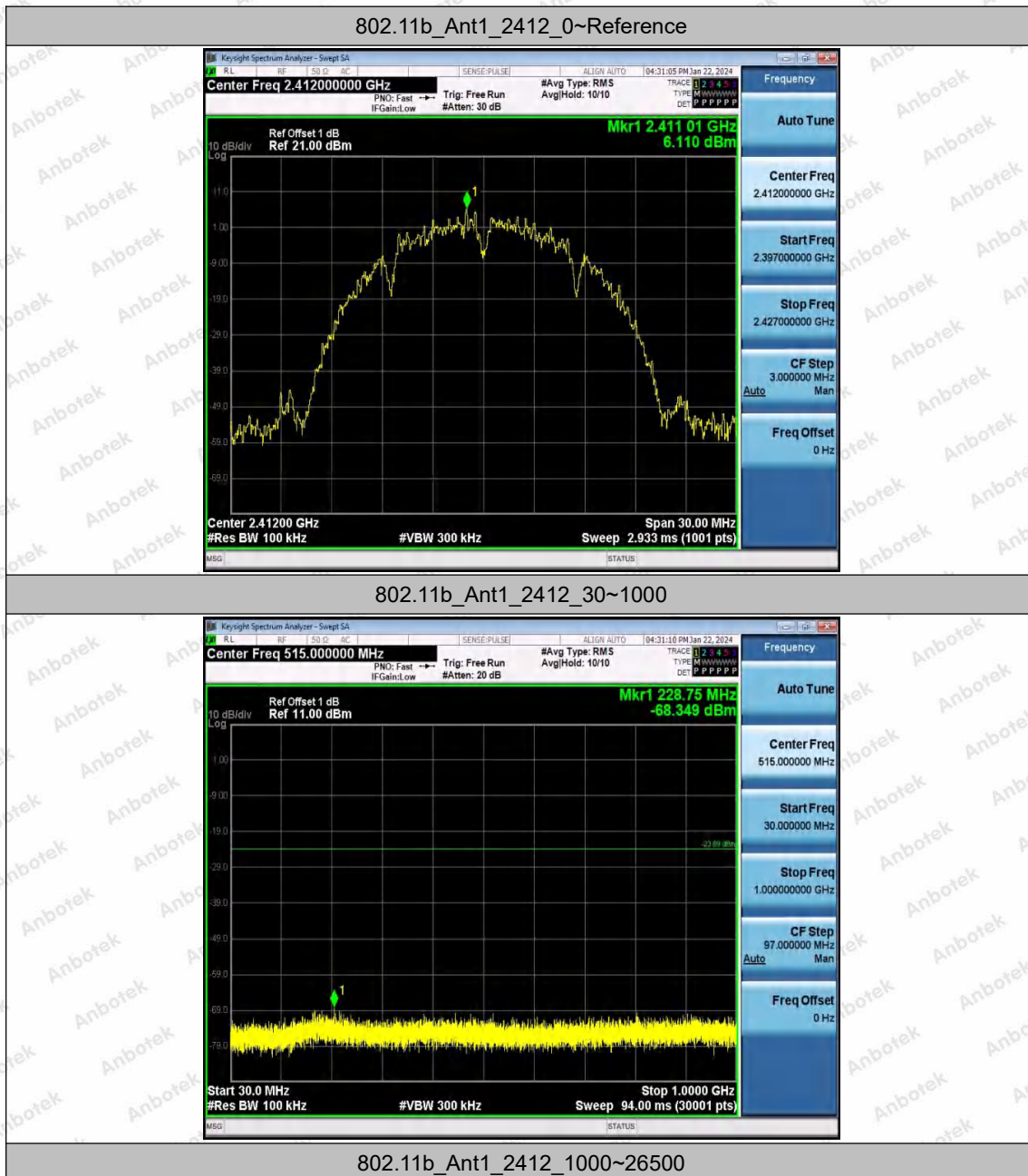
Appendix E: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	Reference	6.11	6.11	---	PASS
			30~1000	6.11	-68.35	≤-23.89	PASS
			1000~26500	6.11	-53.28	≤-23.89	PASS
		2437	Reference	5.19	5.19	---	PASS
			30~1000	5.19	-68.87	≤-24.81	PASS
			1000~26500	5.19	-53.77	≤-24.81	PASS
		2462	Reference	3.72	3.72	---	PASS
			30~1000	3.72	-69.06	≤-26.28	PASS
			1000~26500	3.72	-53.76	≤-26.28	PASS
802.11g	Ant1	2412	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-69.03	≤-30.85	PASS
			1000~26500	-0.85	-53.78	≤-30.85	PASS
		2437	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-68.95	≤-29.03	PASS
			1000~26500	0.97	-53.85	≤-29.03	PASS
		2462	Reference	1.56	1.56	---	PASS
			30~1000	1.56	-68.36	≤-28.44	PASS
			1000~26500	1.56	-53.68	≤-28.44	PASS
802.11n(HT20) SISO	Ant1	2412	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-68.97	≤-28.39	PASS
			1000~26500	1.61	-53.37	≤-28.39	PASS
		2437	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-69.22	≤-29.02	PASS
			1000~26500	0.98	-53.38	≤-29.02	PASS
		2462	Reference	1.05	1.05	---	PASS
			30~1000	1.05	-69.28	≤-28.95	PASS
			1000~26500	1.05	-54.05	≤-28.95	PASS
802.11n(HT40) SISO	Ant1	2422	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-58.59	≤-35.24	PASS
			1000~26500	-5.24	-41.76	≤-35.24	PASS
		2437	Reference	-5.14	-5.14	---	PASS
			30~1000	-5.14	-57.97	≤-35.14	PASS
			1000~26500	-5.14	-41.06	≤-35.14	PASS
		2452	Reference	-4.55	-4.55	---	PASS
			30~1000	-4.55	-58.79	≤-34.55	PASS
			1000~26500	-4.55	-41.3	≤-34.55	PASS



Test Graphs



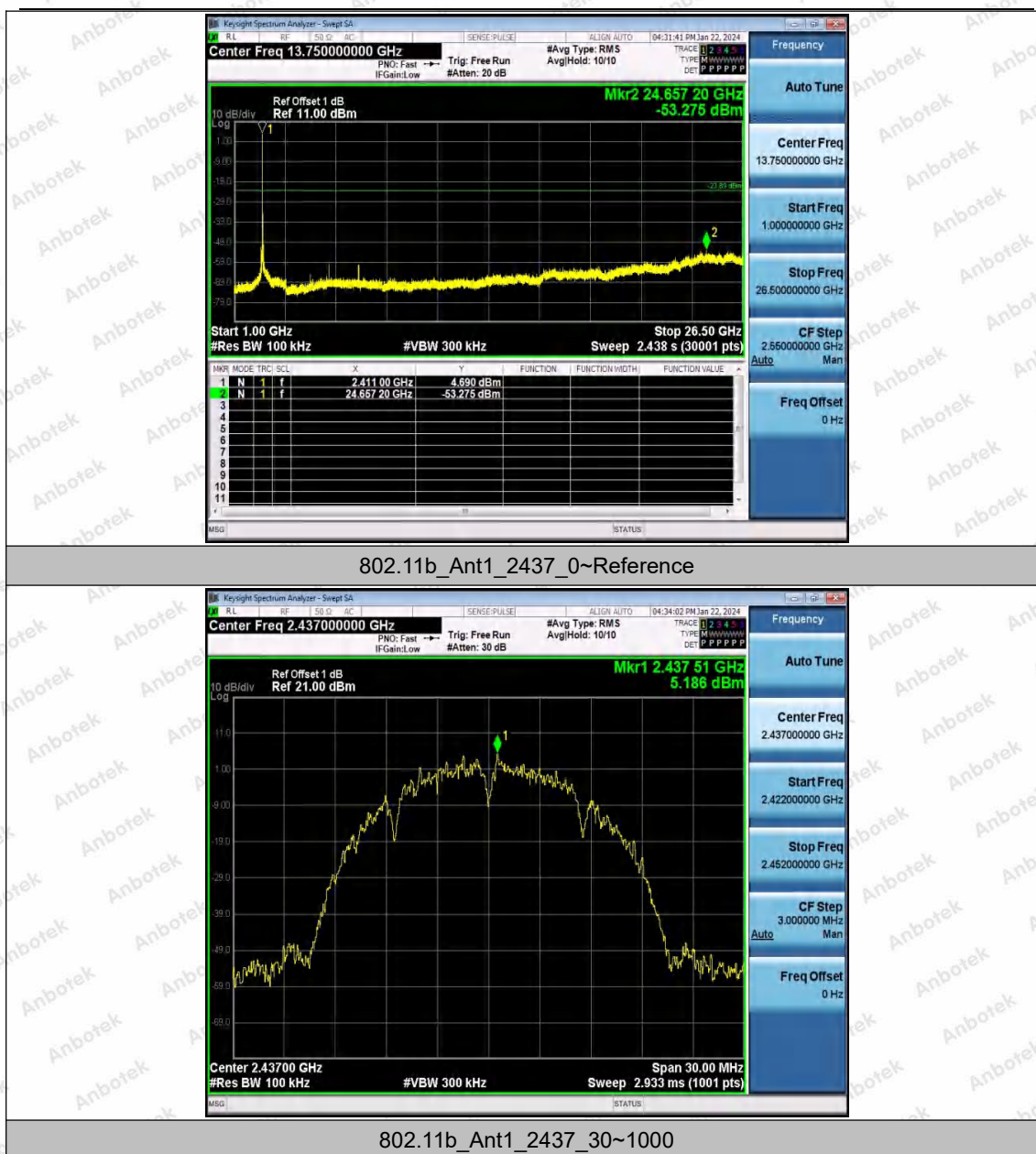
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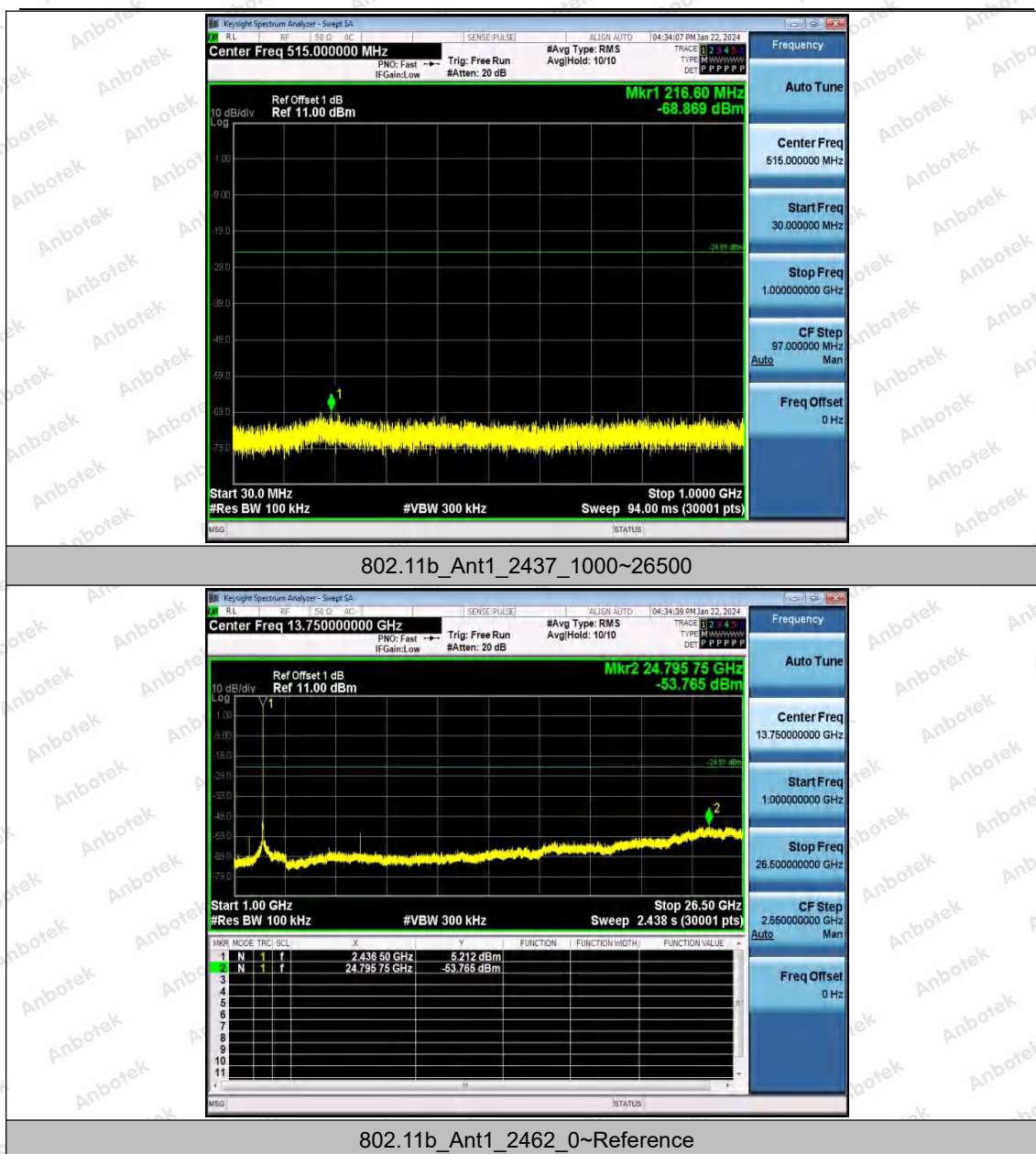
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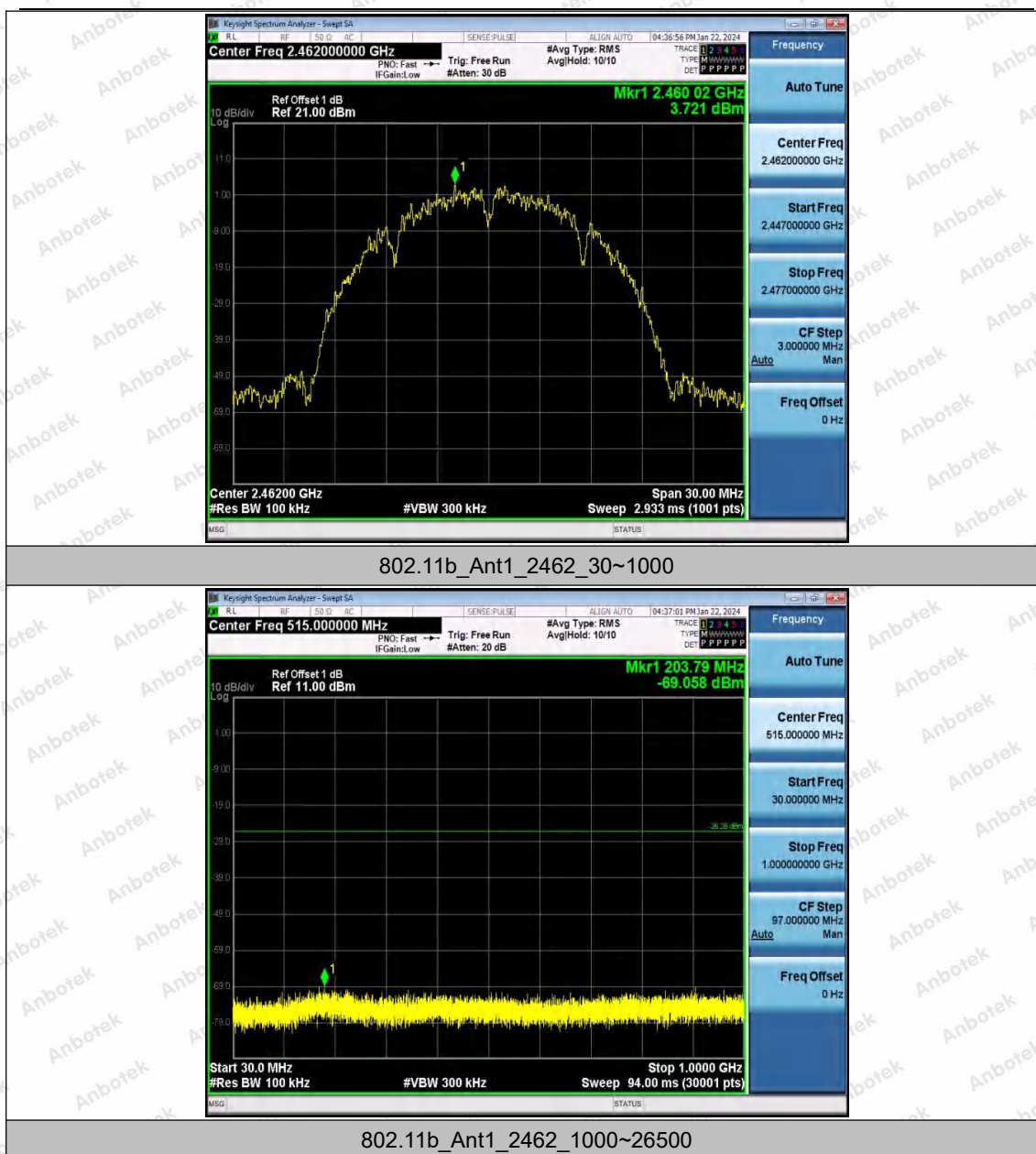
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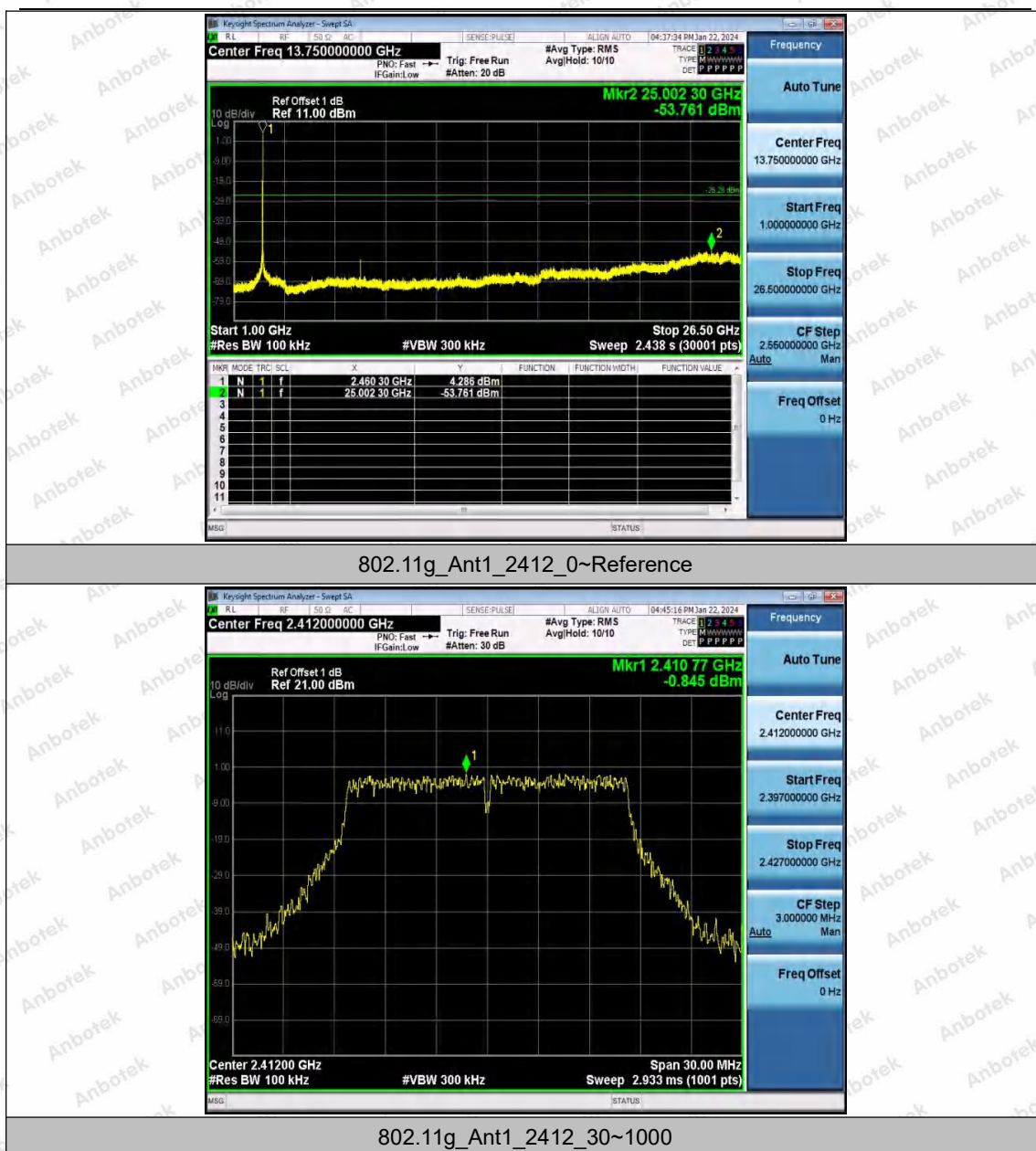
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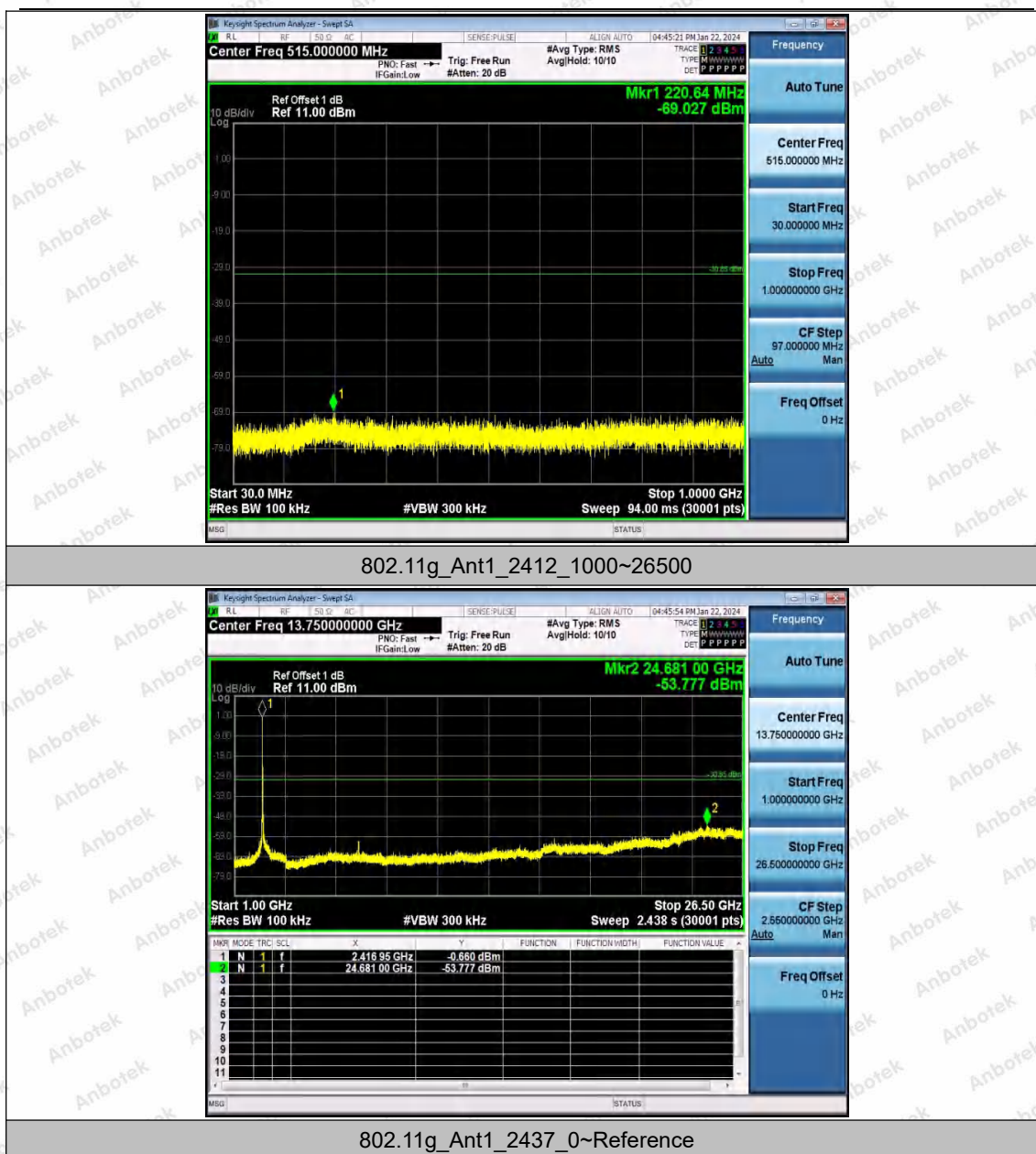
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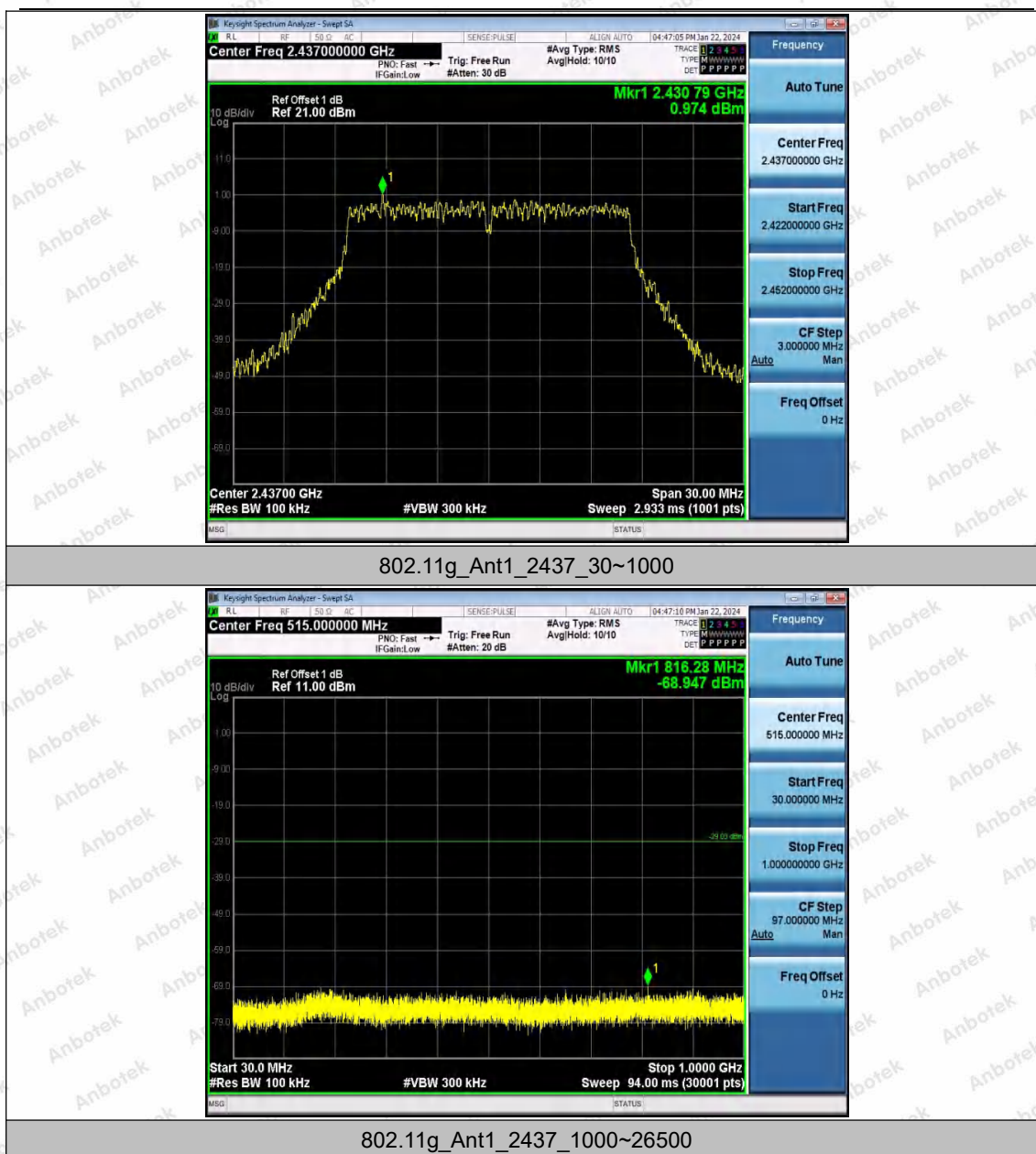
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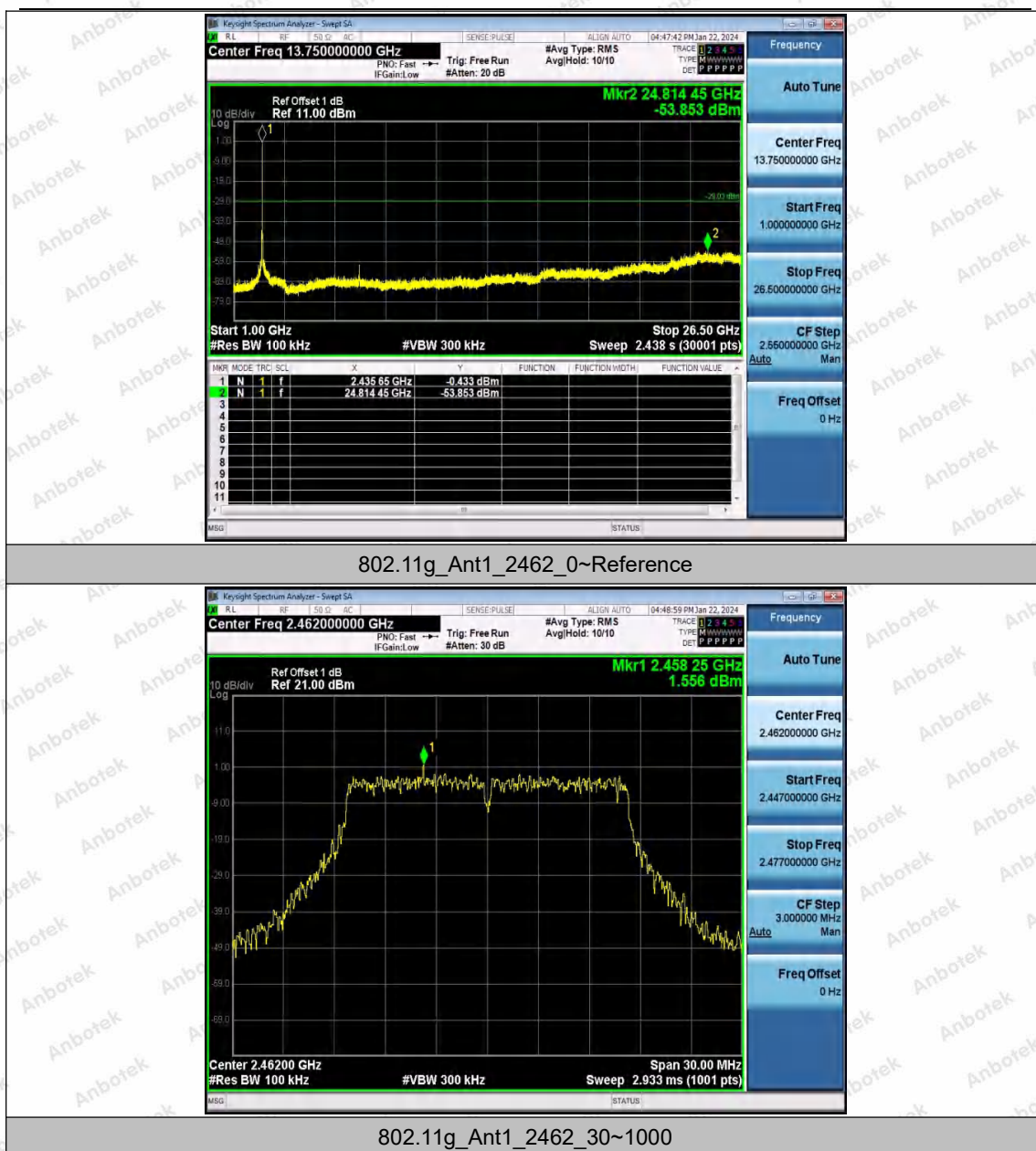
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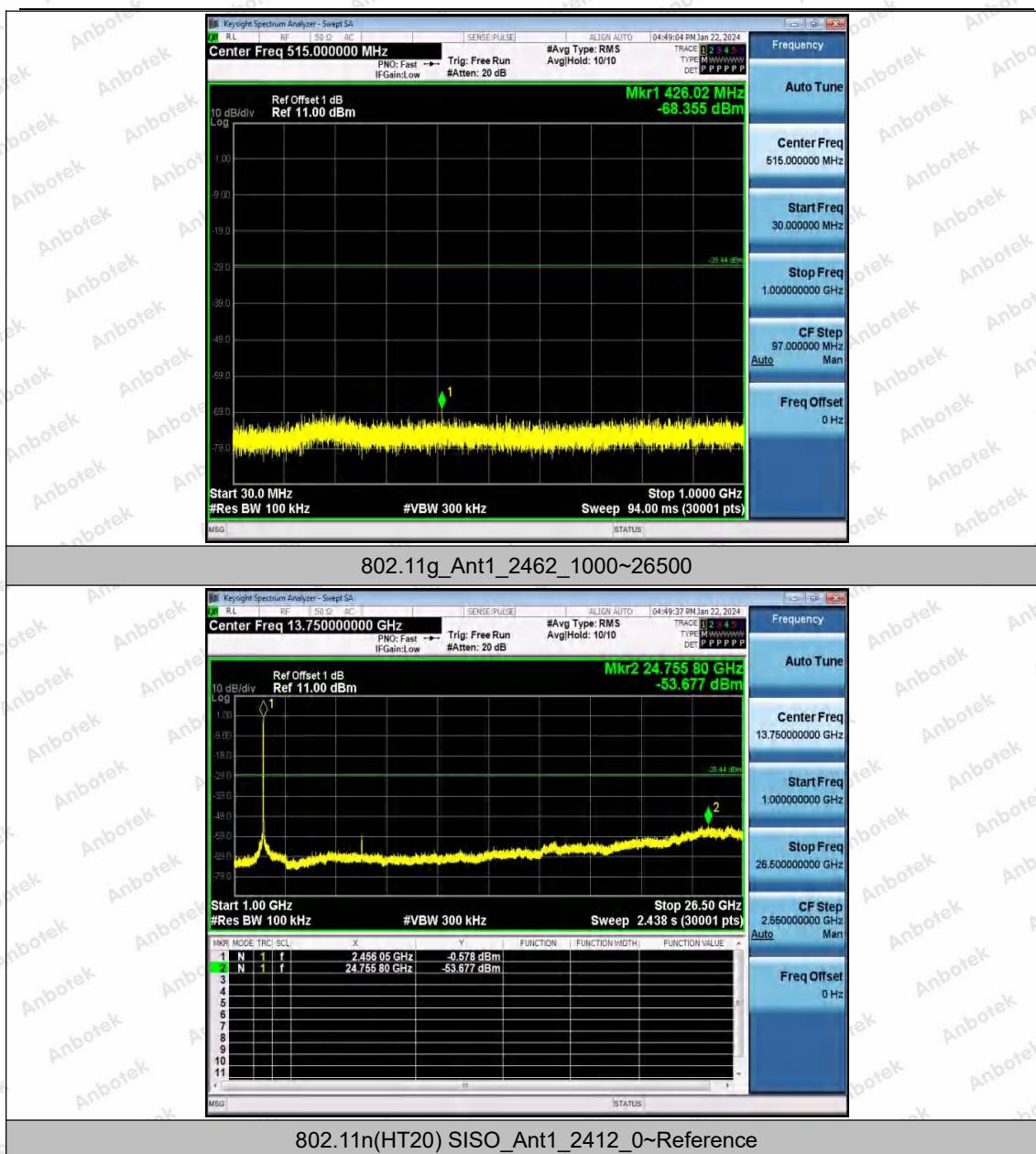
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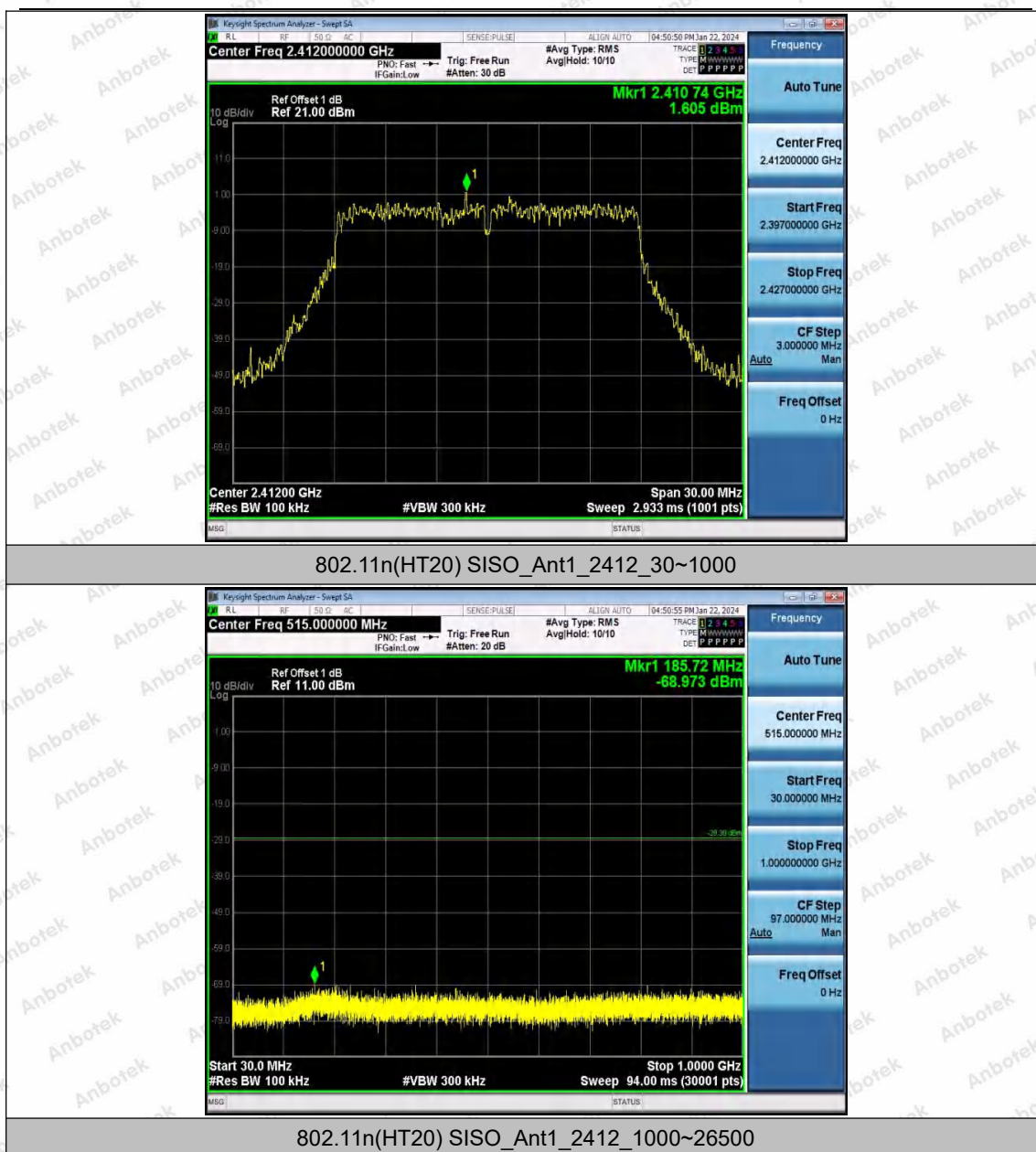
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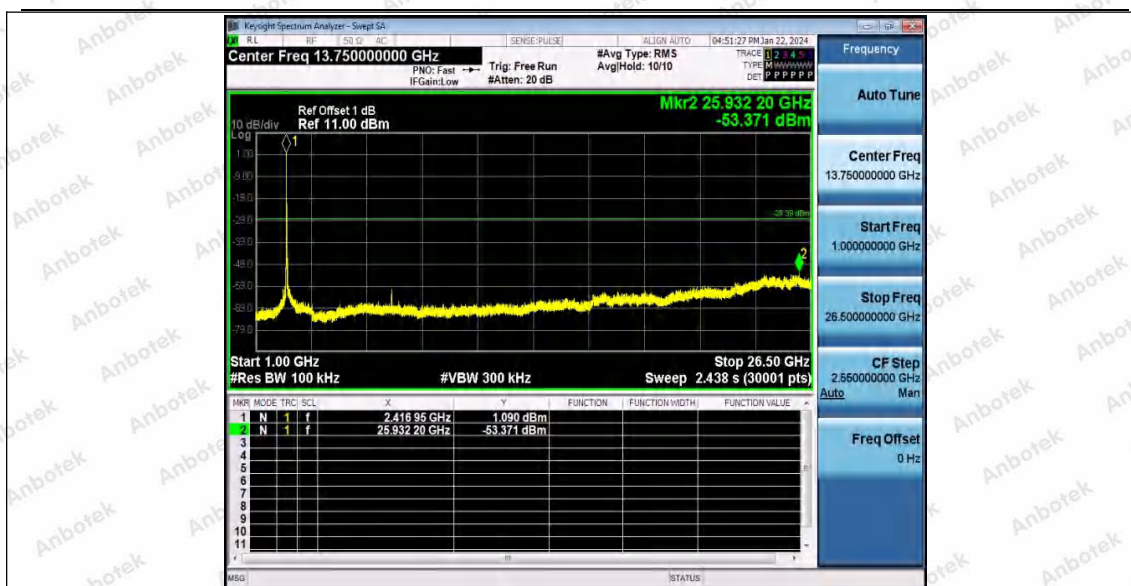
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802.11n(HT20) SISO_Ant1_2437_0~Reference



802.11n(HT20) SISO_Ant1_2437_30~1000

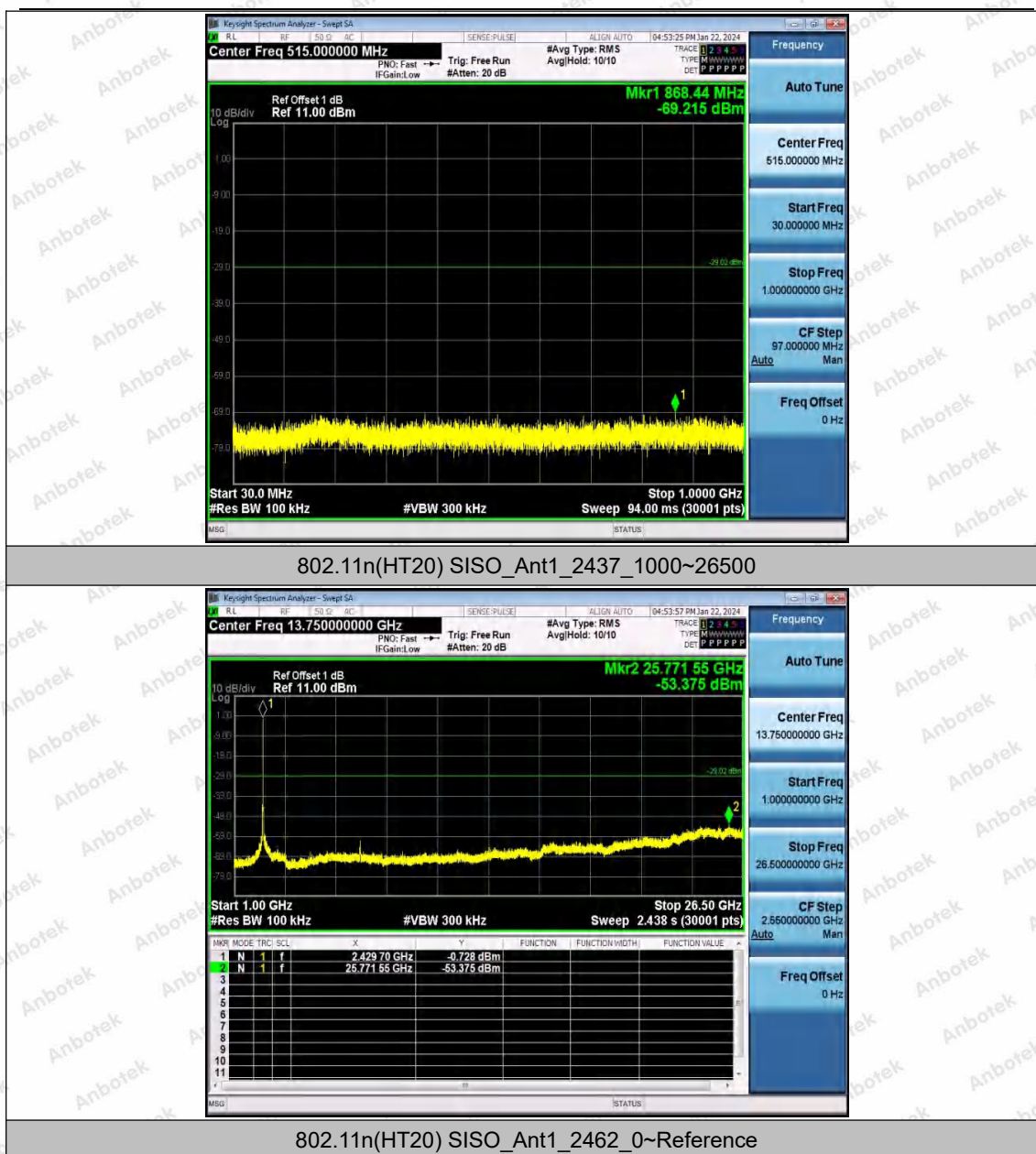
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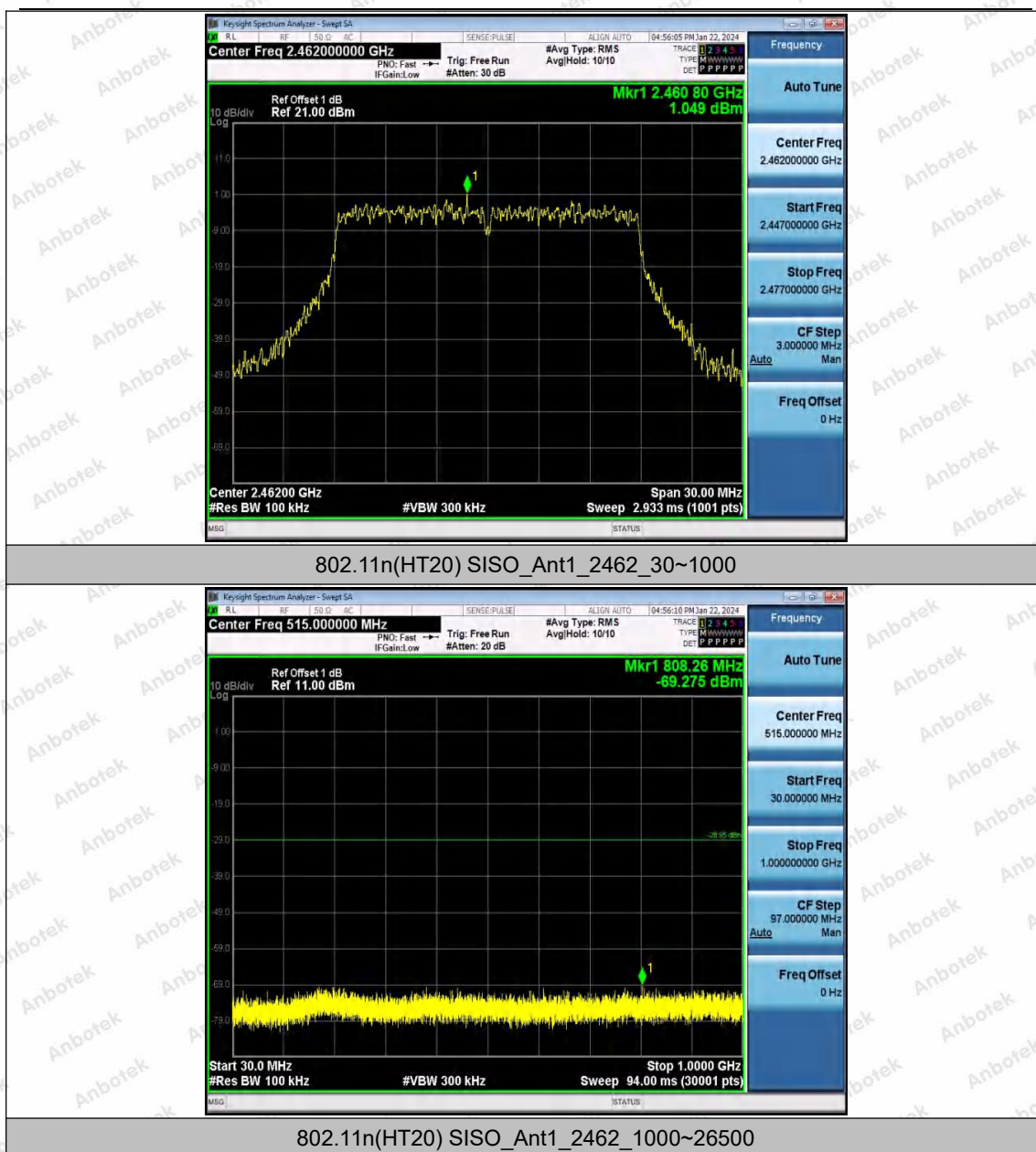
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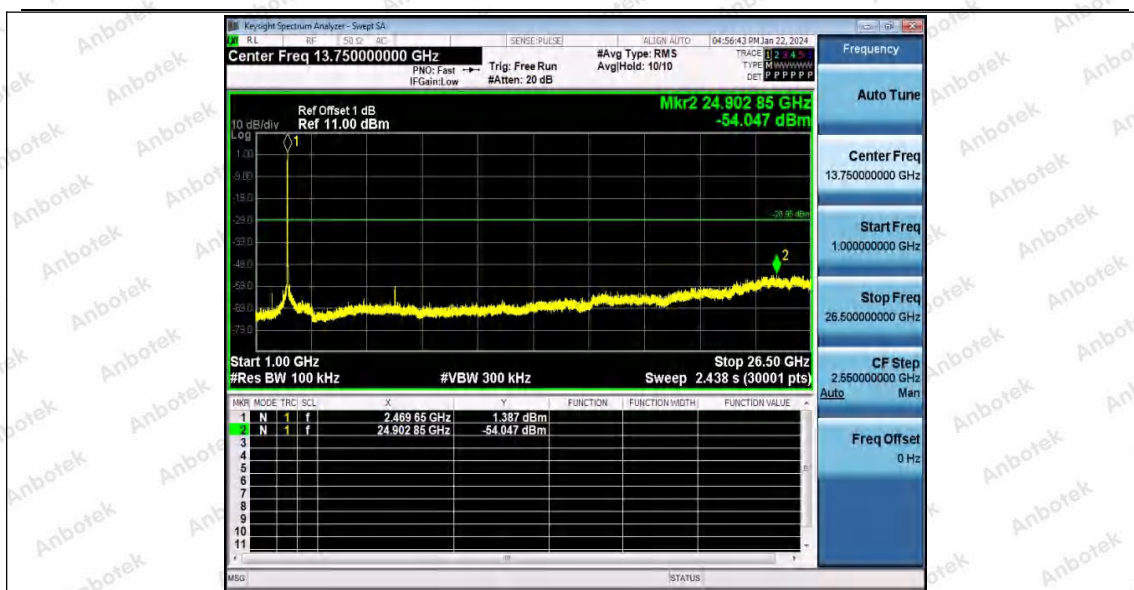
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802.11n(HT40) SISO_Ant1_2422_0~Reference



802.11n(HT40) SISO_Ant1_2422_30~1000



802.11n(HT40) SISO_Ant1_2422_1000~26500

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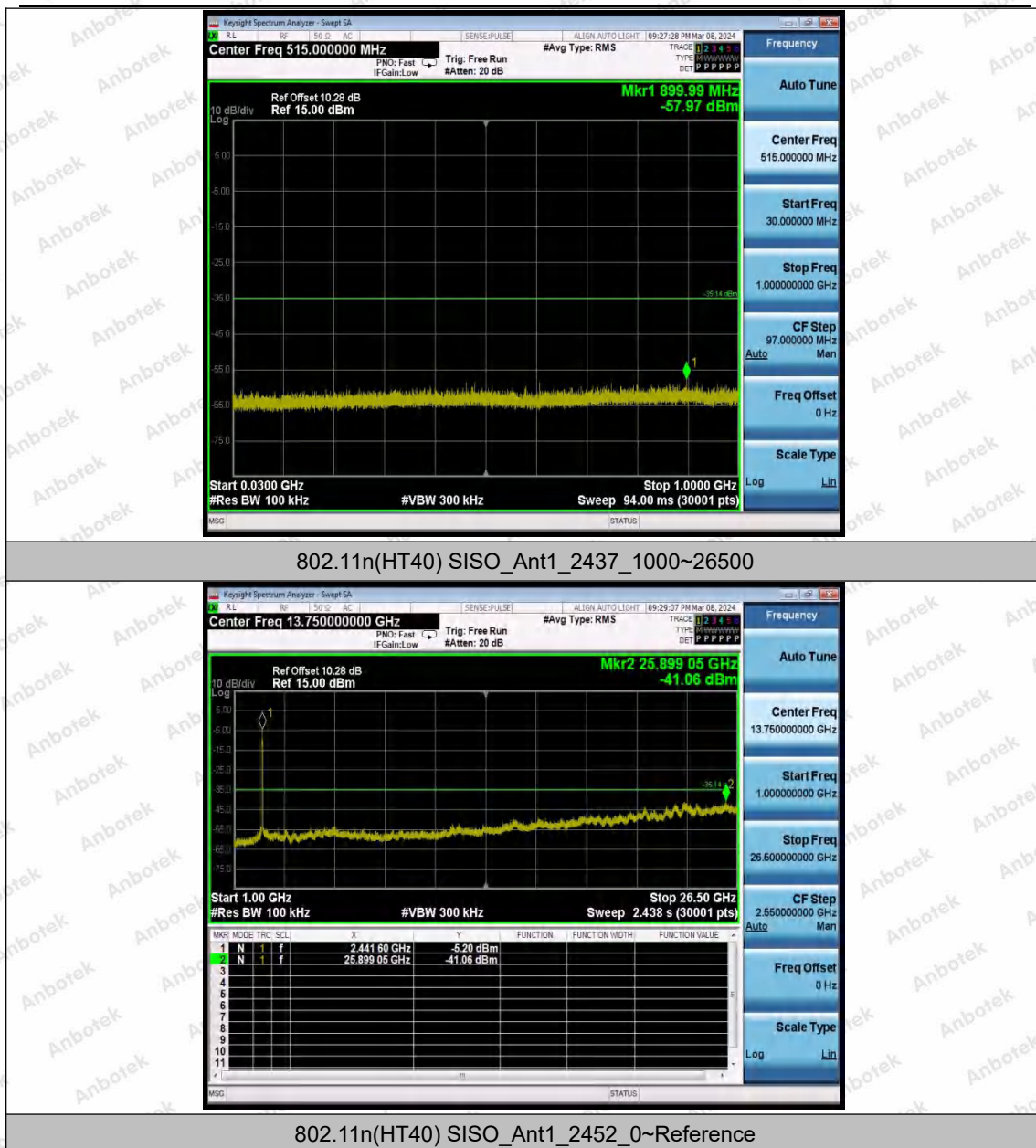


802.11n(HT40) SISO_Ant1_2437_0~Reference



802.11n(HT40) SISO_Ant1_2437_30~1000





802.11n(HT40) SISO_Ant1_2437_1000~26500

802.11n(HT40) SISO_Ant1_2452_0~Reference

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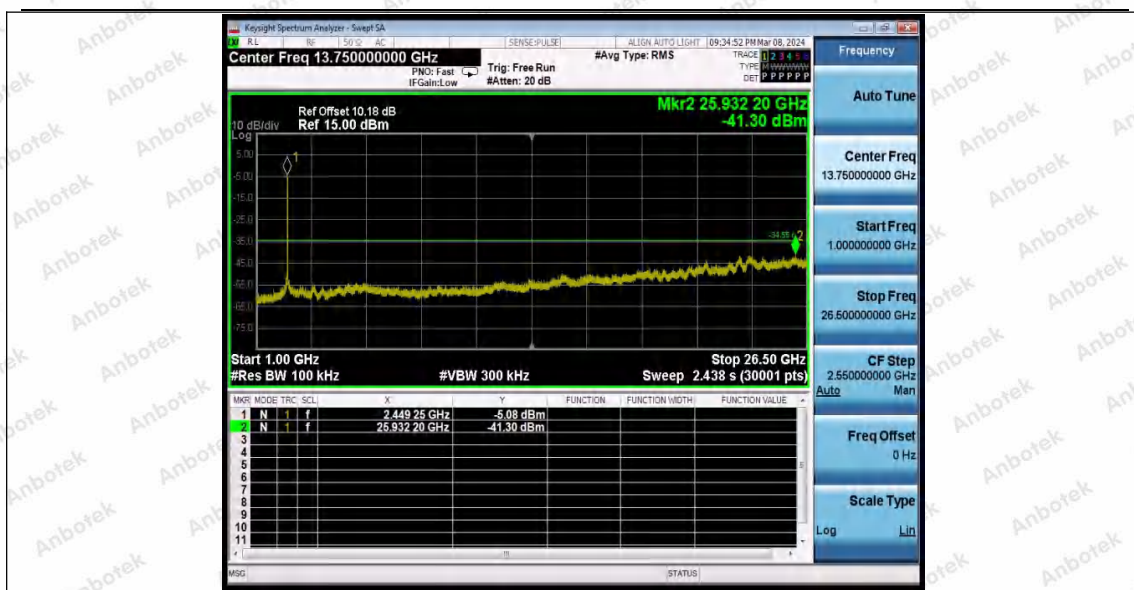
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Appendix F: Duty Cycle

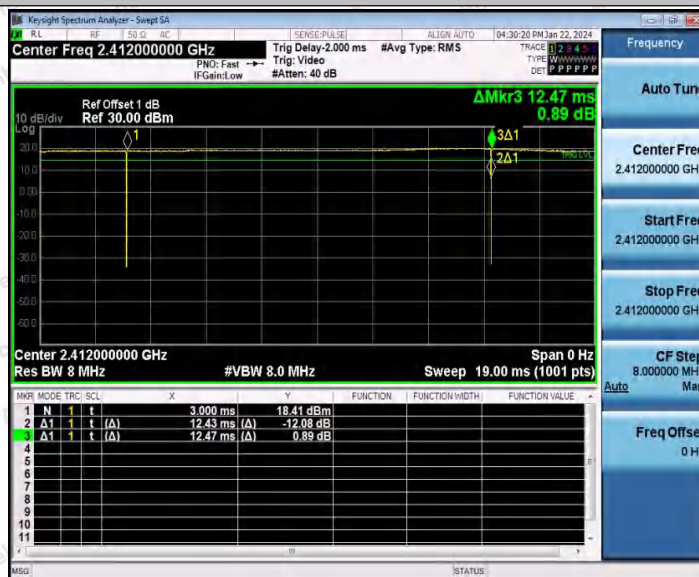
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
802.11b	Ant1	2412	12.43	12.47	99.68	0.01
		2437	12.41	12.58	98.65	0.06
		2462	12.42	12.56	98.89	0.05
802.11g	Ant1	2412	2.06	2.11	97.63	0.10
		2437	2.07	2.15	96.28	0.16
		2462	2.07	2.19	94.52	0.24
802.11n(HT20) SISO	Ant1	2412	1.92	2.05	93.66	0.28
		2437	1.92	2.03	94.58	0.24
		2462	1.92	2.03	94.58	0.24
802.11n(HT40) SISO	Ant1	2422	0.58	0.99	58.59	2.32
		2437	0.59	1.00	59.00	2.29
		2452	0.58	0.99	58.59	2.32

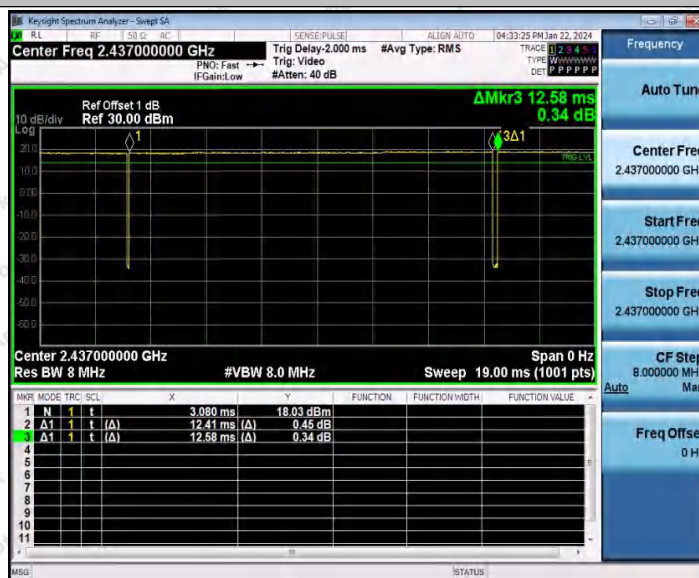


Test Graphs

802.11b_Ant1_2412



802.11b_Ant1_2437



802.11b_Ant1_2462

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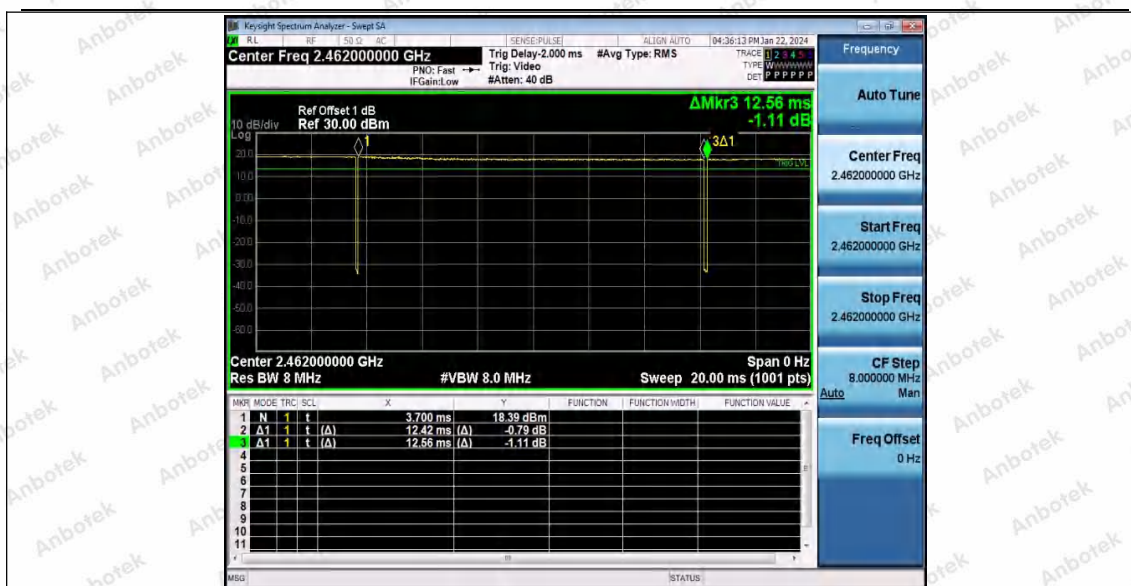


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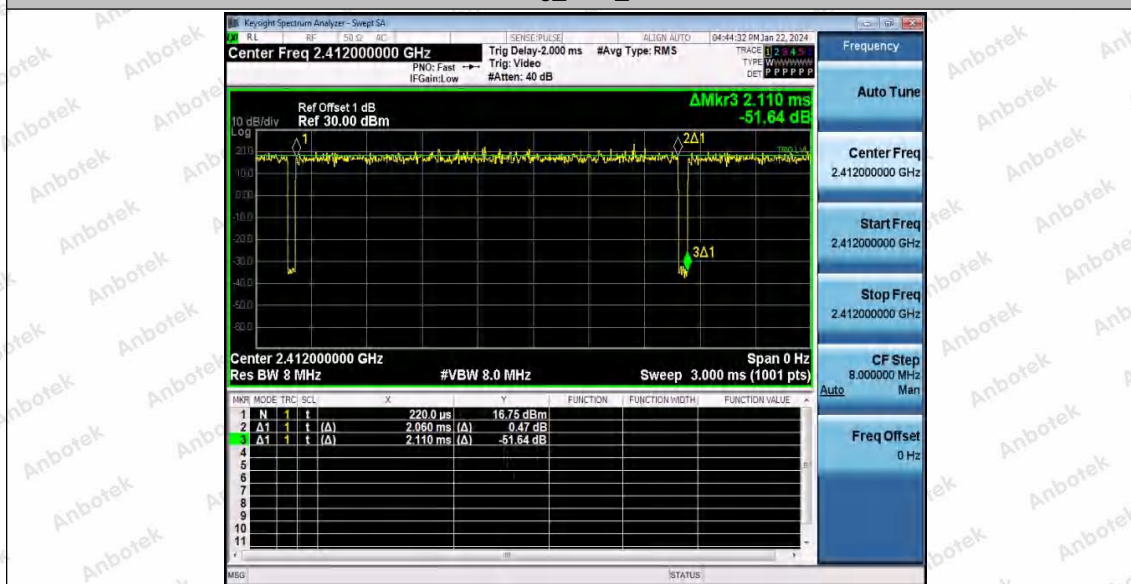
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802.11g_Ant1_2412



802.11g_Ant1_2437

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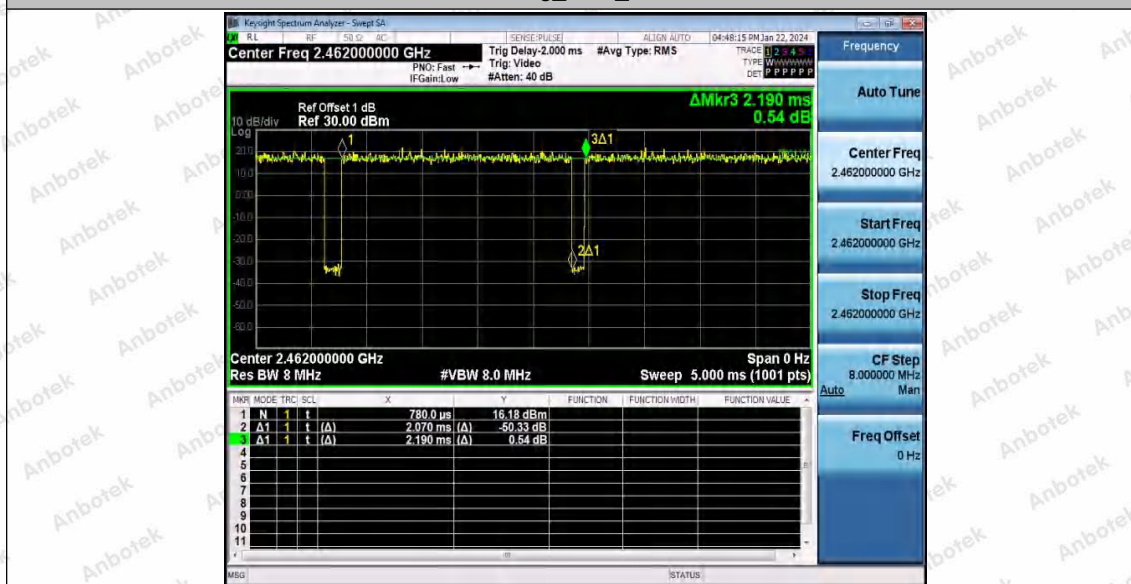


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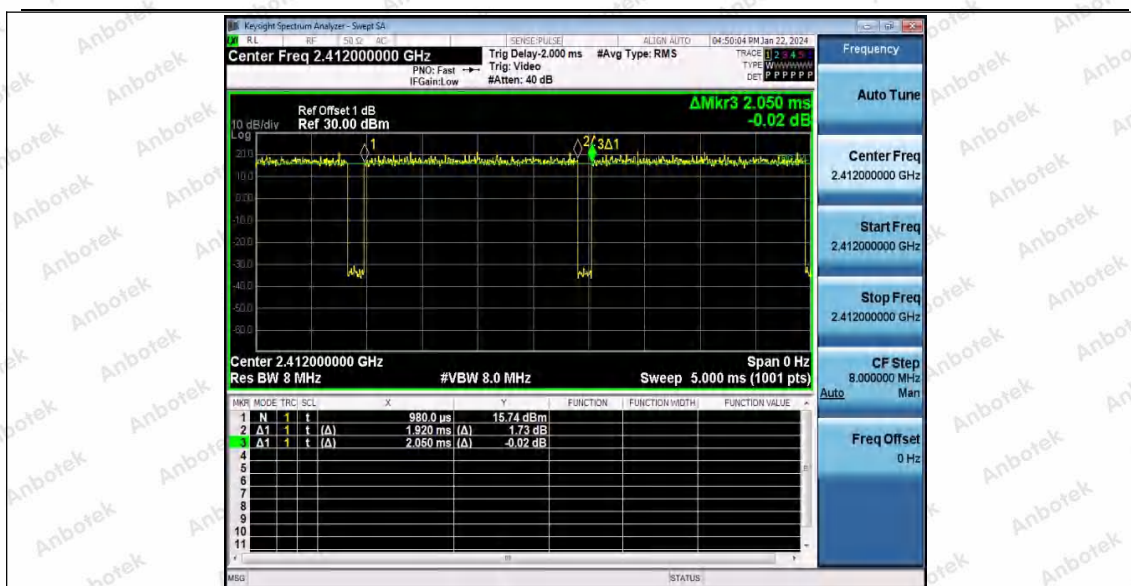


802.11g_Ant1_2462

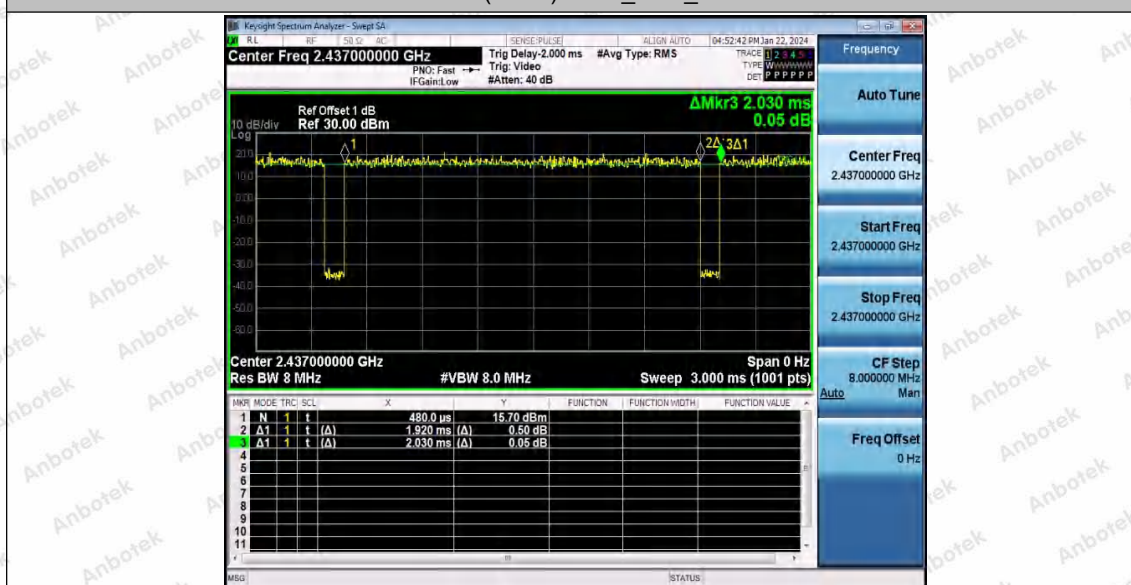


802.11n(HT20) SISO_Ant1_2412





802.11n(HT20) SISO_Ant1_2437



802.11n(HT20) SISO_Ant1_2462

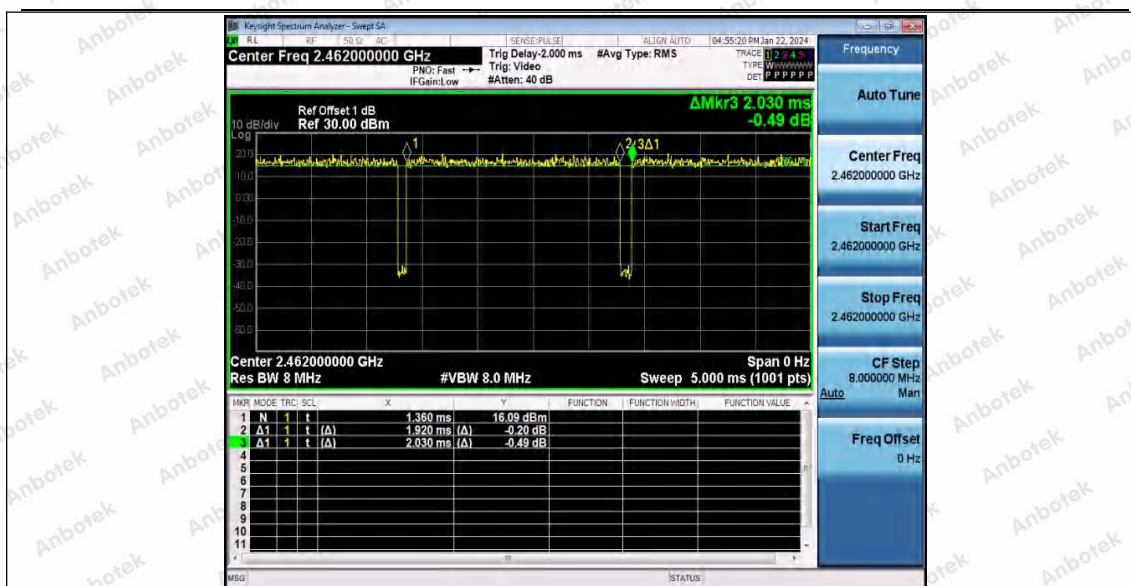
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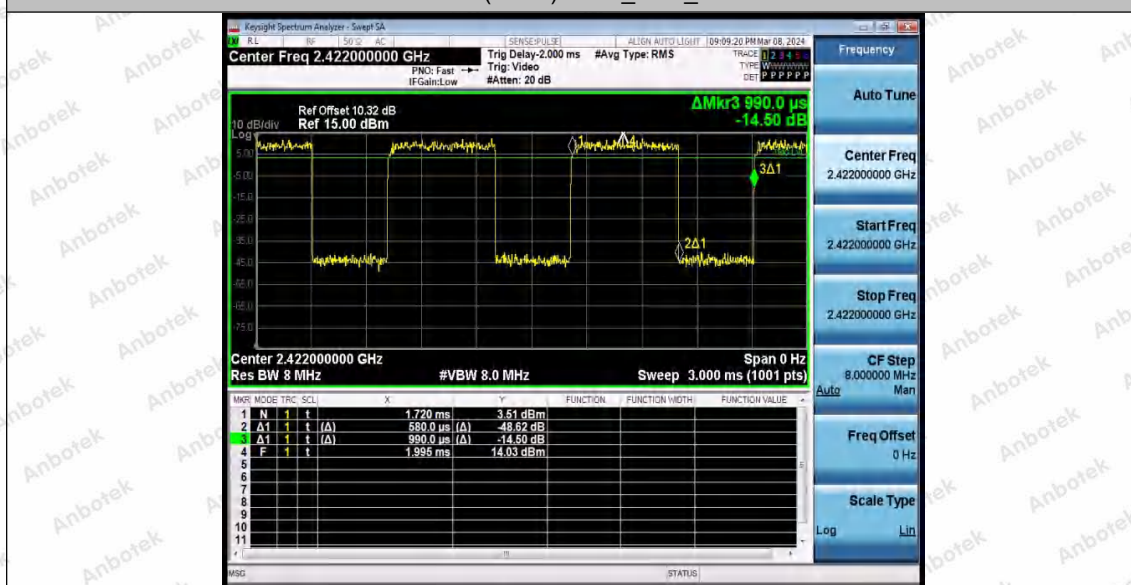


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802.11n(HT40) SISO_Ant1_2422



802.11n(HT40) SISO_Ant1_2437

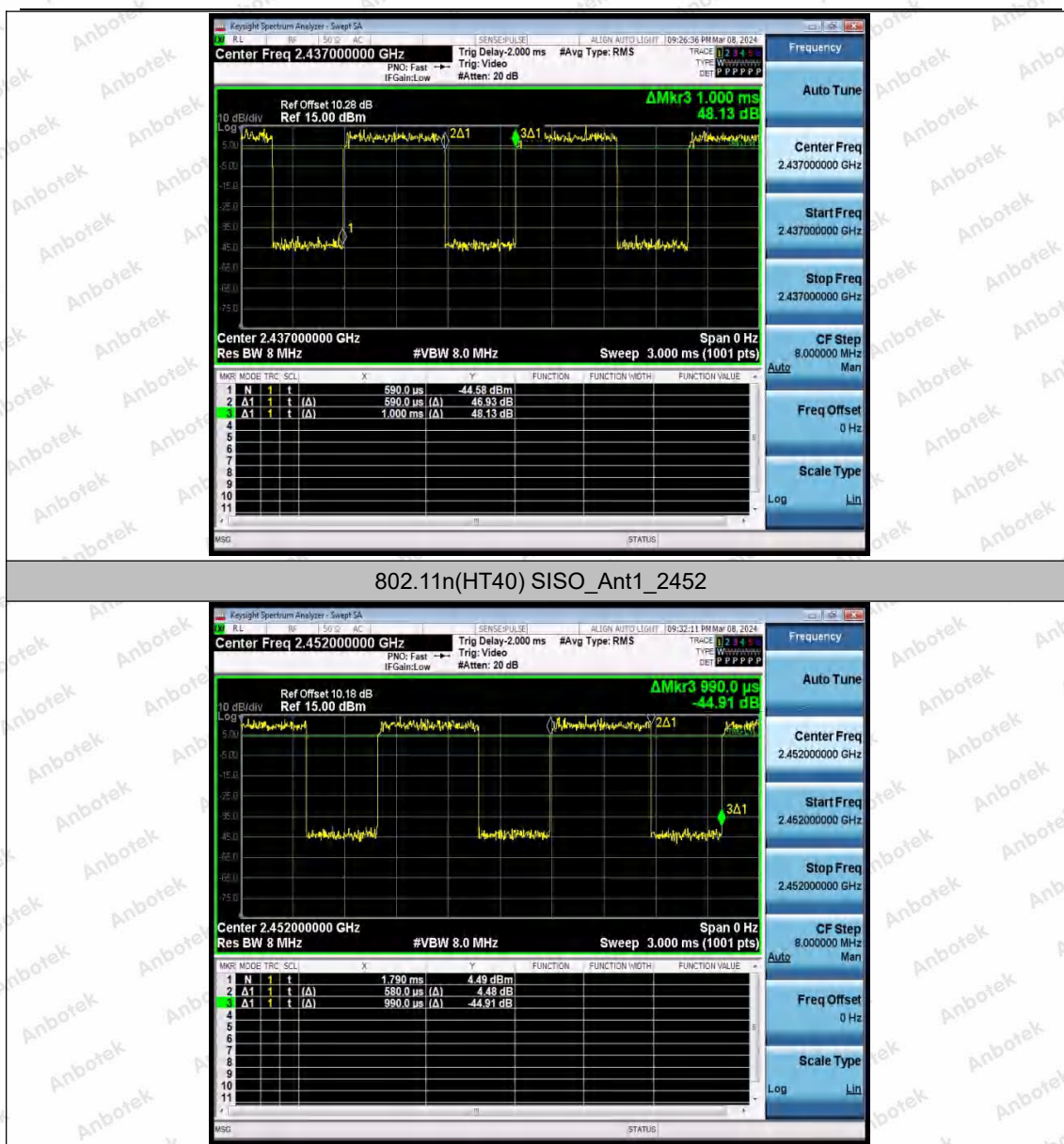
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