

Appendix Test Data

Report No.:	18220WC30275201	Test Sample No.:	1-2-2
Start Test Date:	2024.1.18	Finish Test Date:	2024.1.18
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	46%
Pressure:	101kPa		

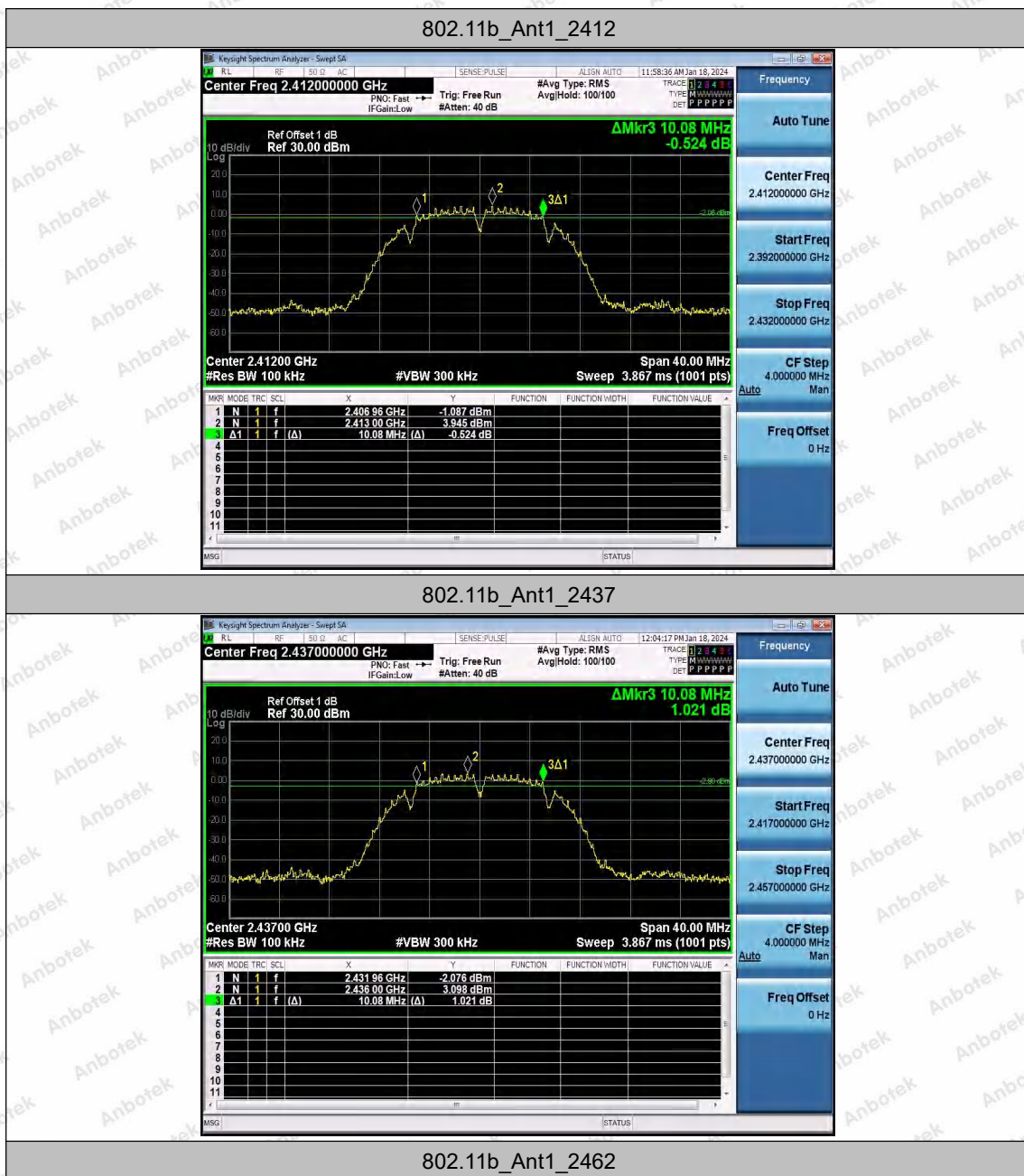
Appendix A: 6dB Occupy Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
802.11g	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
802.11n(HT20) SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS



Test Graphs



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802.11g_Ant1_2412



802.11g_Ant1_2437



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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

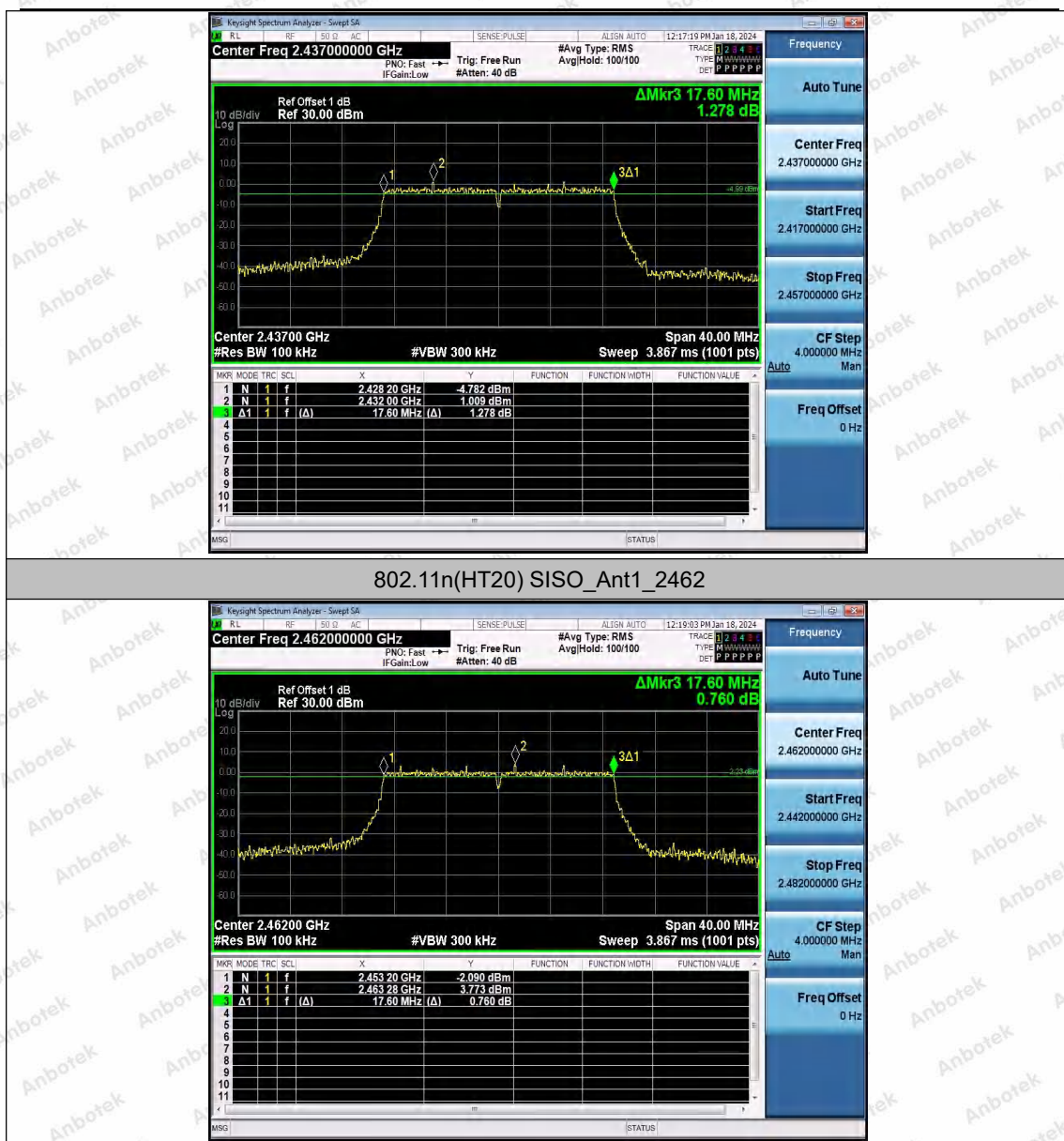
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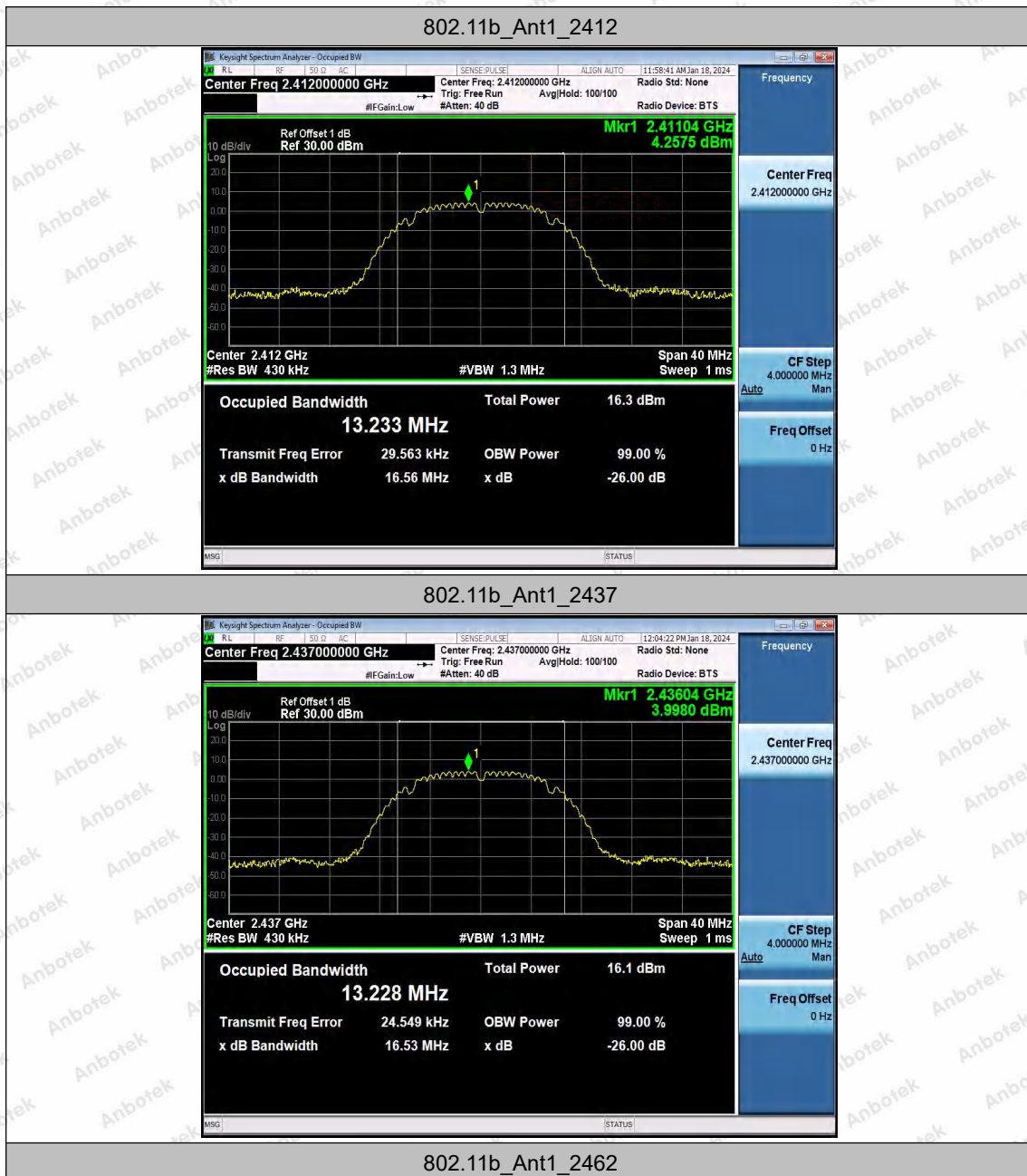
Appendix B: 99% Occupy Bandwidth

Test Result

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	13.233	2405.4131	2418.6461	---	---
		2437	13.228	2430.4106	2443.6386	---	---
		2462	13.208	2455.4095	2468.6175	---	---
802.11g	Ant1	2412	16.813	2403.6446	2420.4576	---	---
		2437	16.746	2428.6648	2445.4108	---	---
		2462	16.879	2453.5967	2470.4757	---	---
802.11n(HT20) SISO	Ant1	2412	17.800	2403.1503	2420.9503	---	---
		2437	17.806	2428.1123	2445.9183	---	---
		2462	17.797	2453.1400	2470.9370	---	---



Test Graphs



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802.11g_Ant1_2412



802.11g_Ant1_2437



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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

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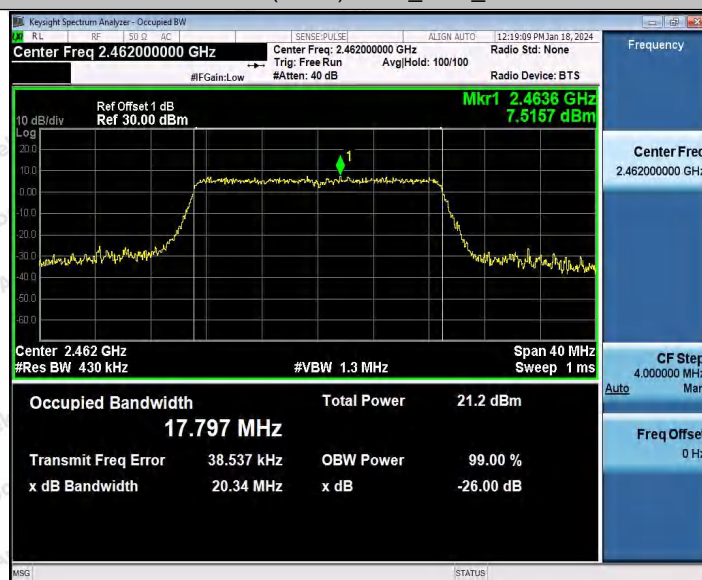


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802.11n(HT20) SISO_Ant1_2462



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Appendix C: Maximum Conducted Output Power

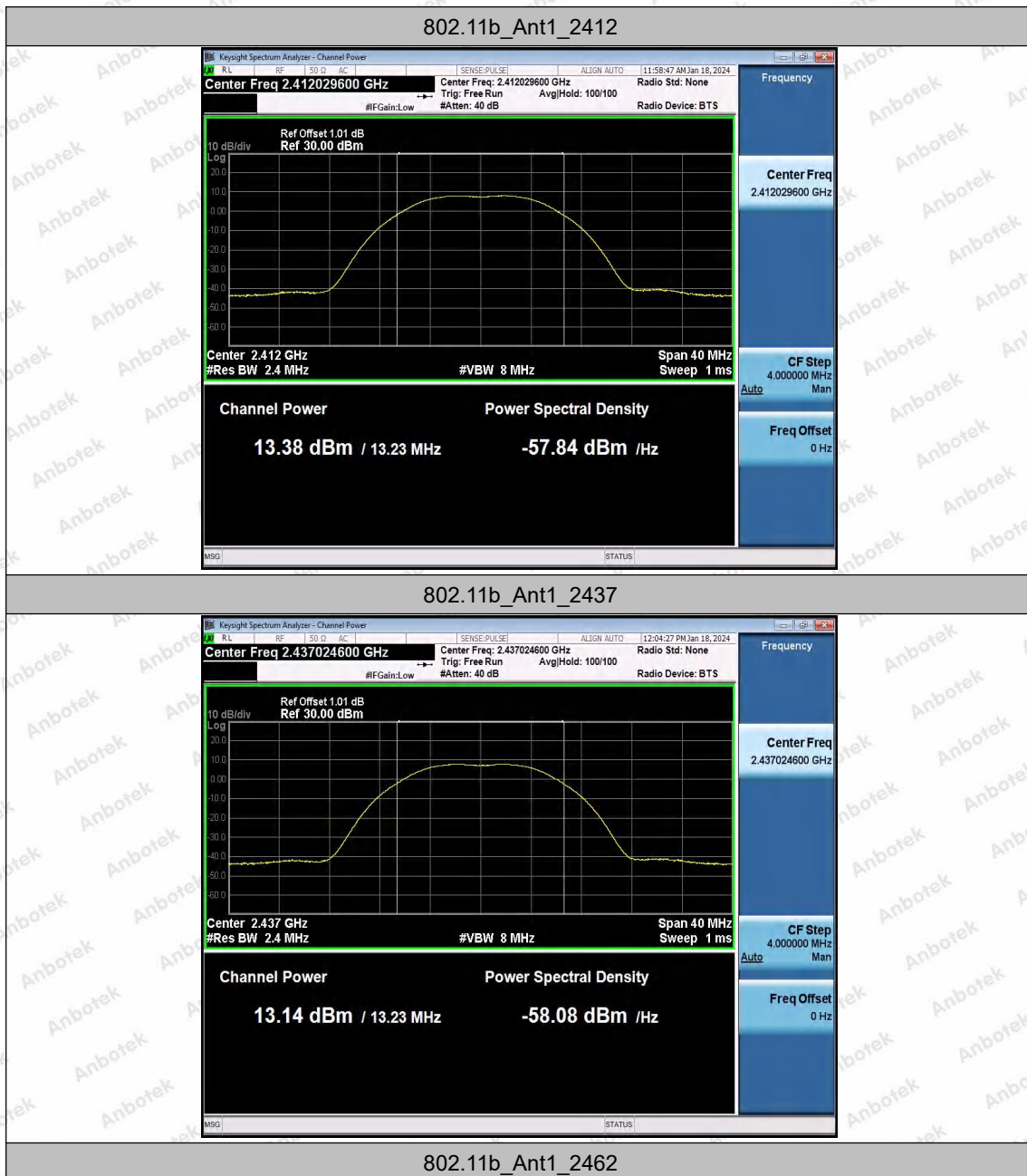
Test Result

Test Mode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
802.11b	Ant1	2412	13.38	≤30.00
		2437	13.14	≤30.00
		2462	15.56	≤30.00
802.11g	Ant1	2412	14.69	≤30.00
		2437	13.18	≤30.00
		2462	15.66	≤30.00
802.11n(HT20) SISO	Ant1	2412	13.89	≤30.00
		2437	12.60	≤30.00
		2462	15.03	≤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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802.11g_Ant1_2412



802.11g_Ant1_2437



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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

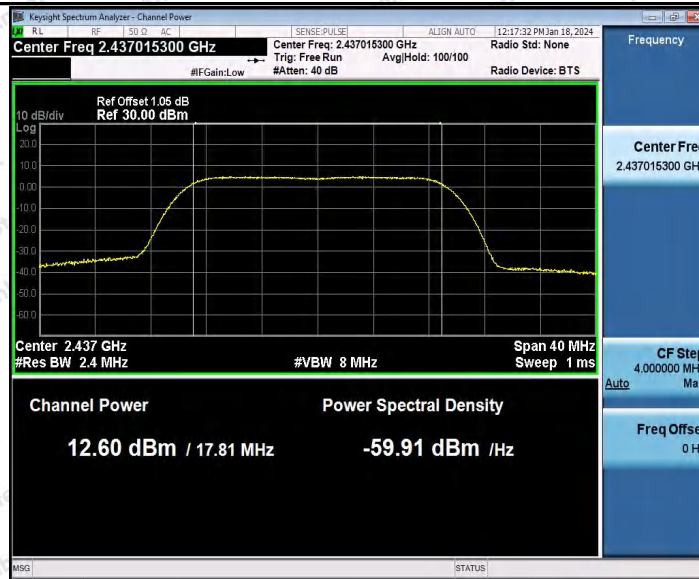
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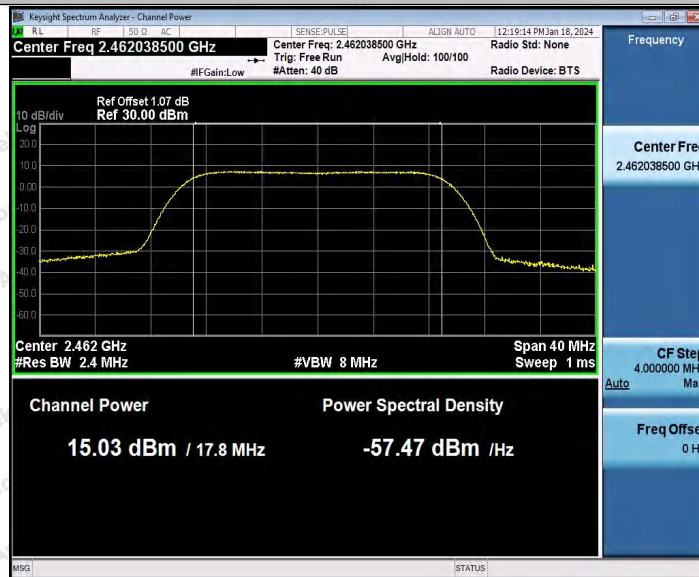


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Appendix D: power spectral density

Test Result

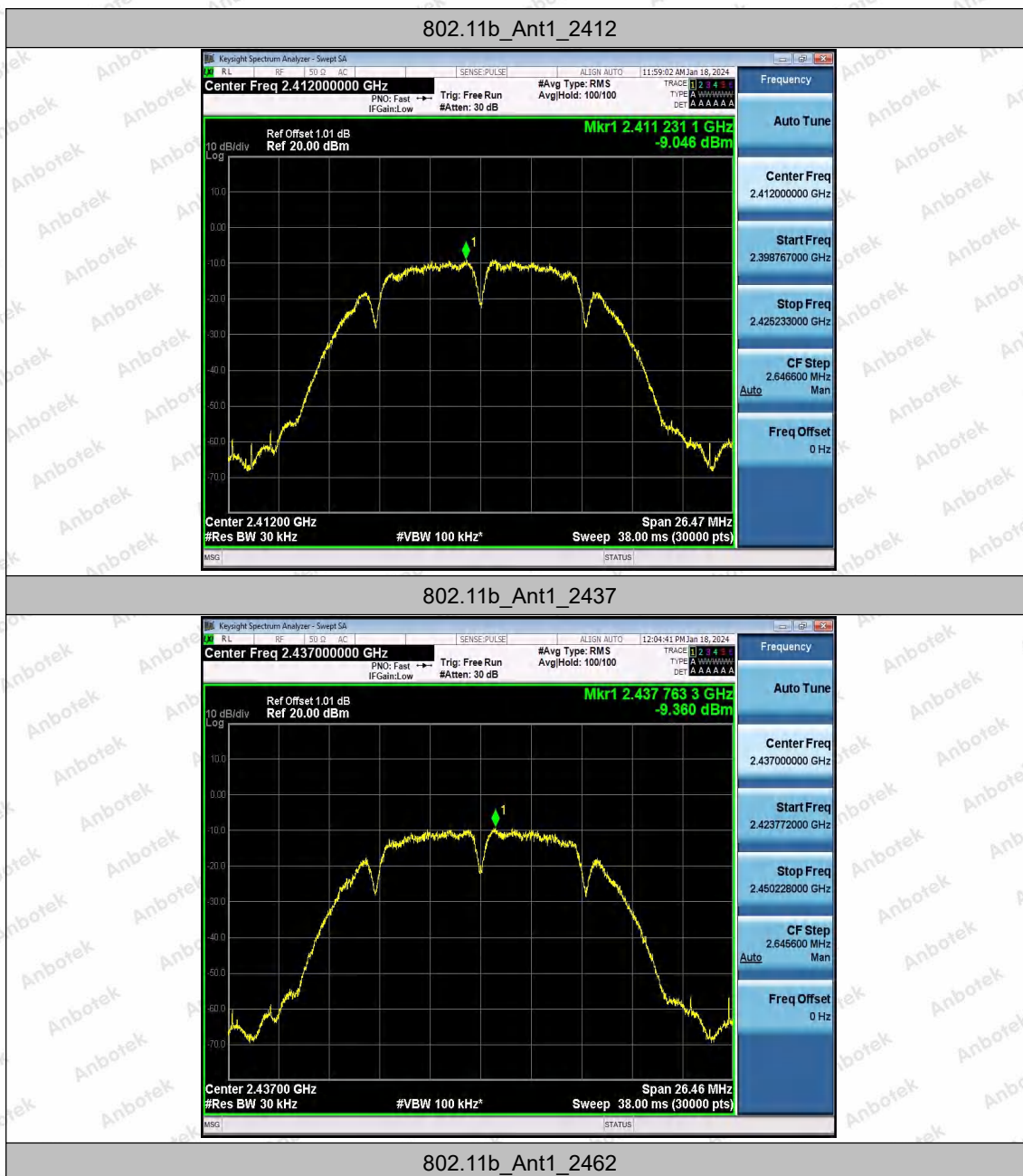
TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
802.11b	Ant1	2412	-9.05	-19.05	≤8.00	PASS
		2437	-9.36	-19.36	≤8.00	PASS
		2462	-7.28	-17.28	≤8.00	PASS
802.11g	Ant1	2412	-9.43	-19.43	≤8.00	PASS
		2437	-11.15	-21.15	≤8.00	PASS
		2462	-8.95	-18.95	≤8.00	PASS
802.11n(HT20) SISO	Ant1	2412	-10.58	-20.58	≤8.00	PASS
		2437	-11.79	-21.79	≤8.00	PASS
		2462	-8.68	-18.68	≤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



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802.11g_Ant1_2412



802.11g_Ant1_2437



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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

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Appendix E: Band edge measurements

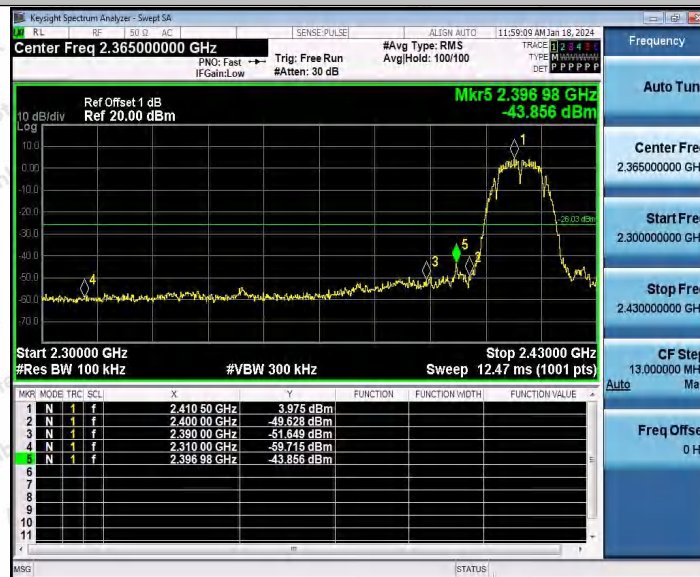
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	3.98	-43.86	≤-26.03	PASS
		High	2462	6.33	-49.46	≤-23.68	PASS
802.11g	Ant1	Low	2412	2.87	-31.05	≤-27.13	PASS
		High	2462	4.42	-42.57	≤-25.58	PASS
802.11n(HT20) SISO	Ant1	Low	2412	2.37	-32.81	≤-27.63	PASS
		High	2462	2.86	-42.96	≤-27.14	PASS

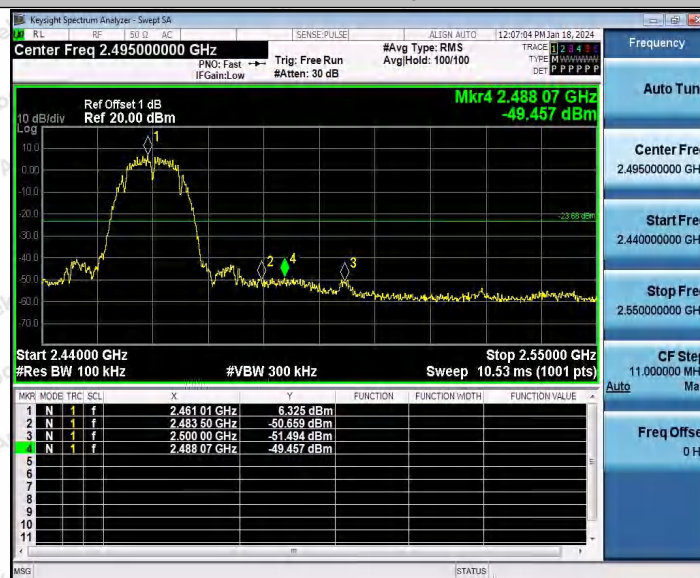


Test Graphs

802.11b_Ant1_Low_2412



802.11b_Ant1_High_2462



802.11g_Ant1_Low_2412

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802.11g_Ant1_High_2462



802.11n(HT20) SISO_Ant1_Low_2412



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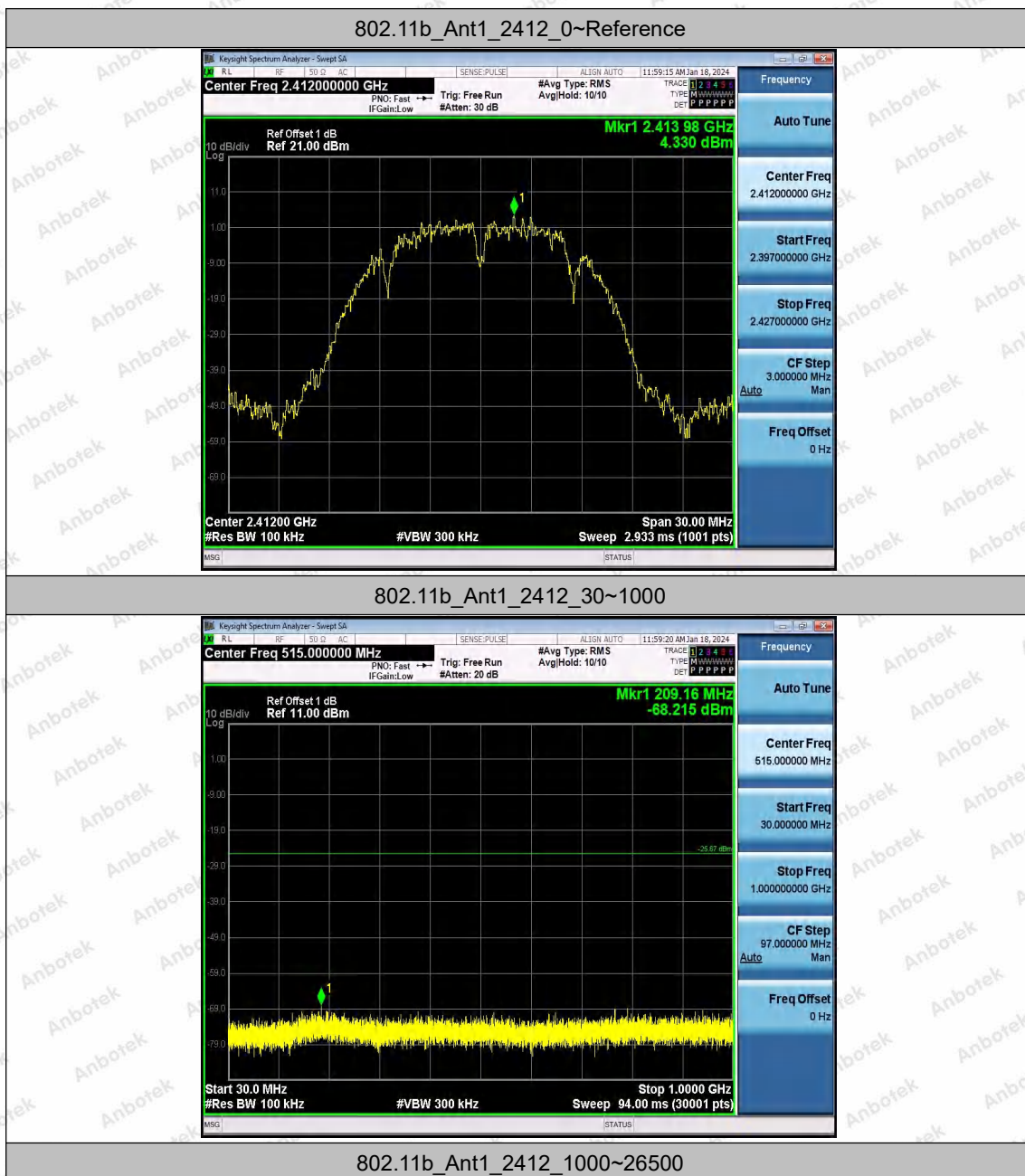
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	Reference	4.33	4.33	---	PASS
			30~1000	4.33	-68.22	≤-25.67	PASS
			1000~26500	4.33	-38.72	≤-25.67	PASS
		2437	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-68.48	≤-26.86	PASS
			1000~26500	3.14	-40.3	≤-26.86	PASS
		2462	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-68.45	≤-24.67	PASS
			1000~26500	5.33	-35.82	≤-24.67	PASS
802.11g	Ant1	2412	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-69.15	≤-29.75	PASS
			1000~26500	0.25	-48.32	≤-29.75	PASS
		2437	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-68.5	≤-31.37	PASS
			1000~26500	-1.37	-48.08	≤-31.37	PASS
		2462	Reference	1.08	1.08	---	PASS
			30~1000	1.08	-68.96	≤-28.92	PASS
			1000~26500	1.08	-45.74	≤-28.92	PASS
802.11n(HT20) SISO	Ant1	2412	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-69.36	≤-31.21	PASS
			1000~26500	-1.21	-48.43	≤-31.21	PASS
		2437	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-68.91	≤-30.36	PASS
			1000~26500	-0.36	-50.36	≤-30.36	PASS
		2462	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-68.88	≤-27.08	PASS
			1000~26500	2.92	-46.48	≤-27.08	PASS



Test Graphs



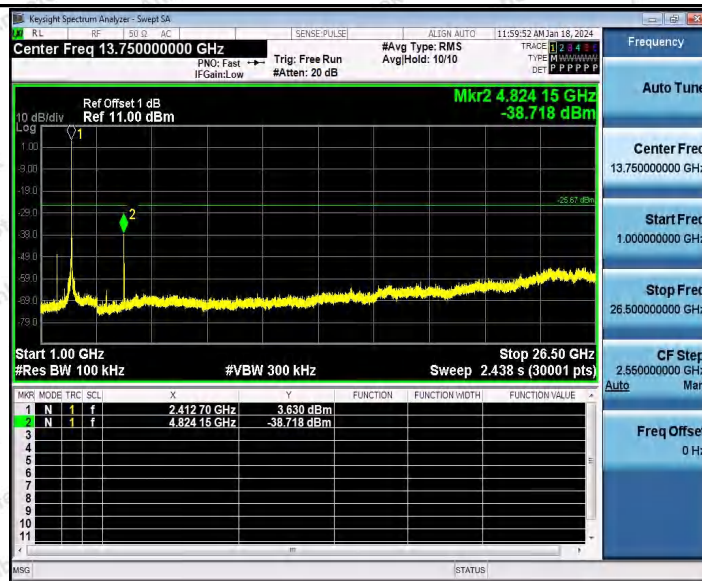
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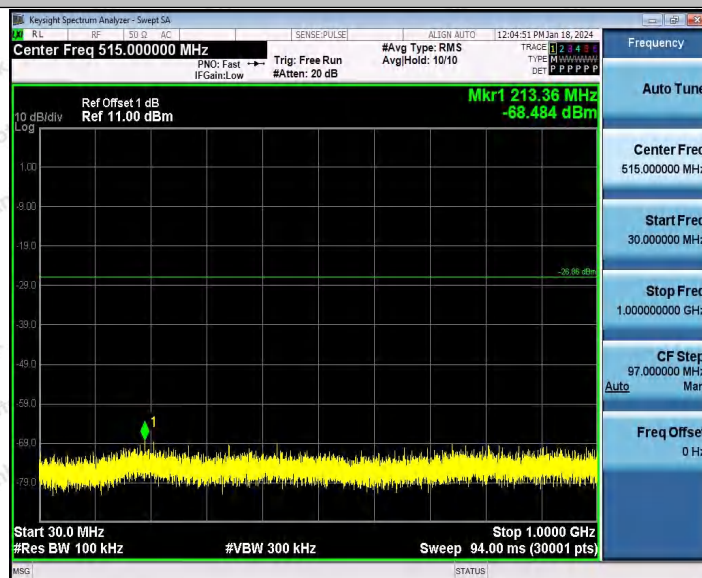




802.11b_Ant1_2437_0~Reference



802.11b_Ant1_2437_30~1000



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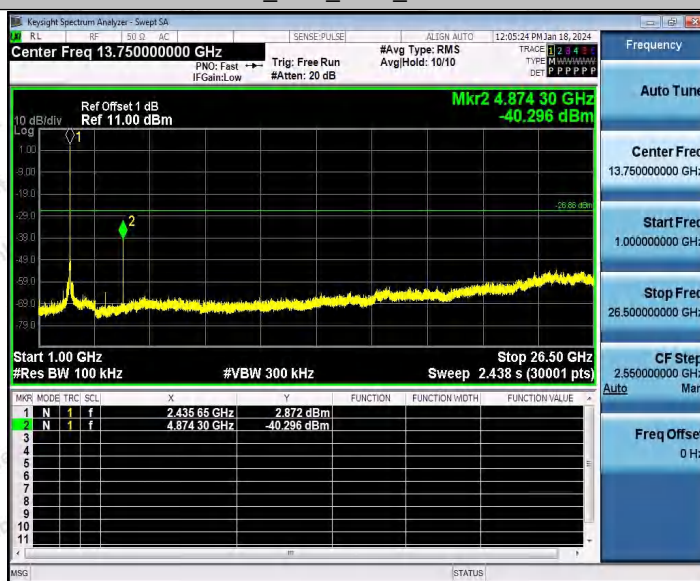
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802.11b_Ant1_2437_1000~26500



802.11b_Ant1_2462_0~Reference



802.11b_Ant1_2462_30~1000

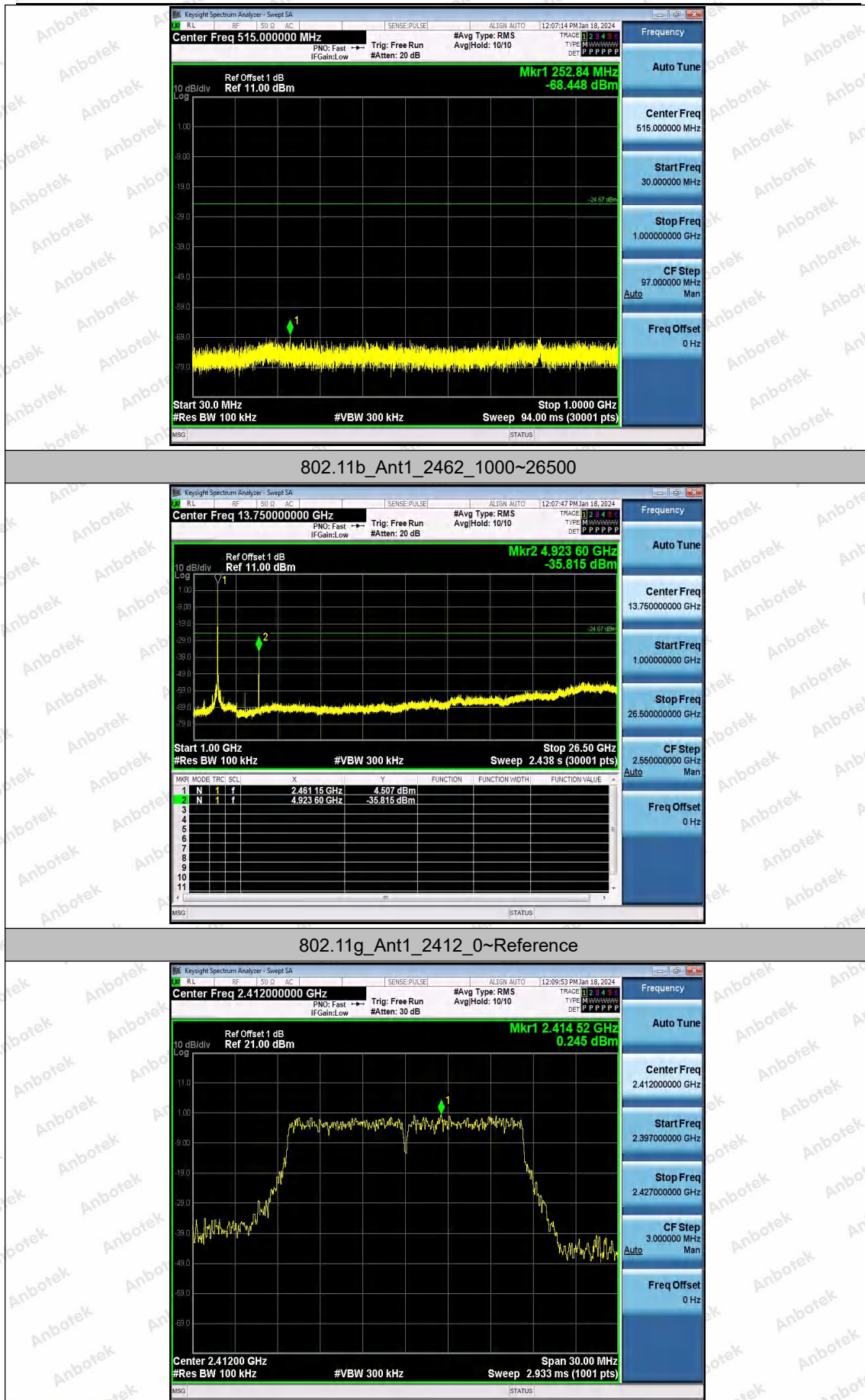
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802.11g_Ant1_2412_30~1000



802.11g_Ant1_2412_1000~26500



802.11g_Ant1_2437_0~Reference

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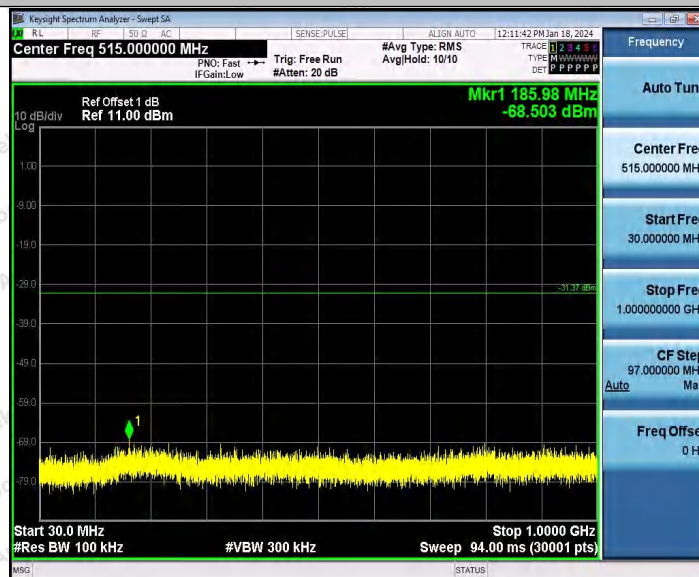


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802.11g_Ant1_2437_30~1000



802.11g_Ant1_2437_1000~26500



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802.11g_Ant1_2462_0~Reference

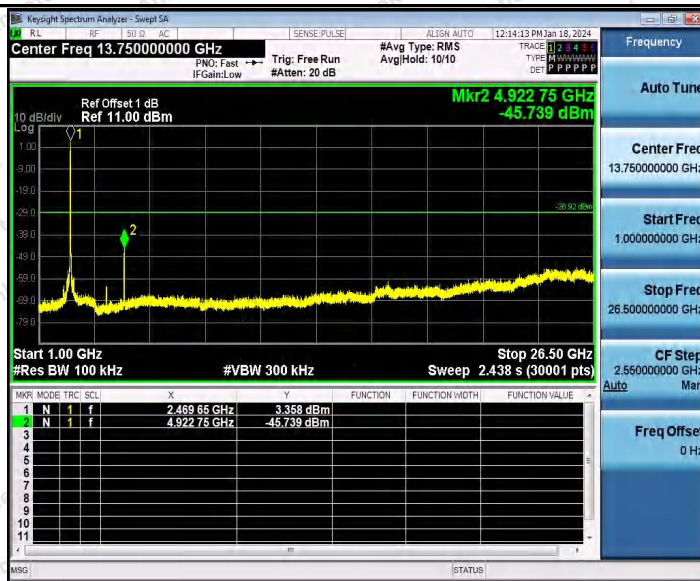


802.11g_Ant1_2462_30~1000



802.11g_Ant1_2462_1000~26500

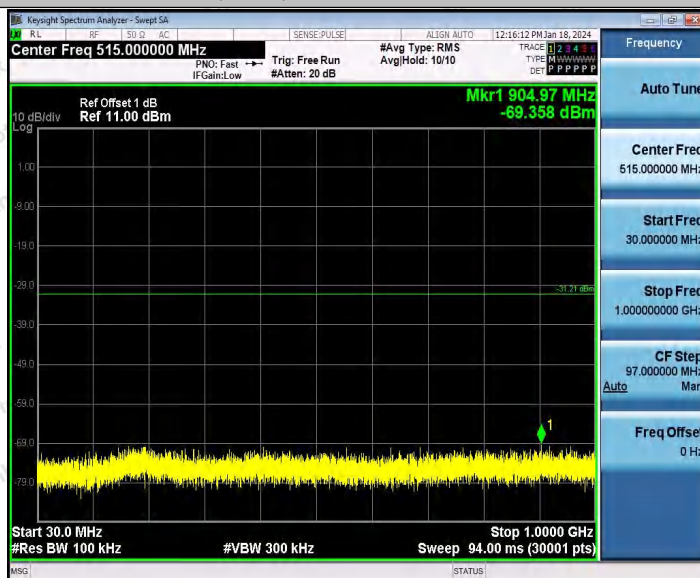




802.11n(HT20) SISO_Ant1_2412_0~Reference



802.11n(HT20) SISO_Ant1_2412_30~1000



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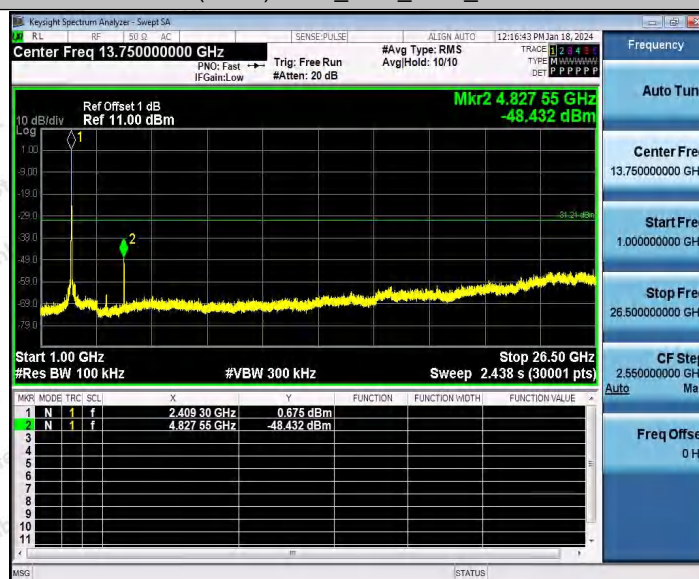
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802.11n(HT20) SISO_Ant1_2412_1000~26500



802.11n(HT20) SISO_Ant1_2437_0~Reference



802.11n(HT20) SISO_Ant1_2437_30~1000

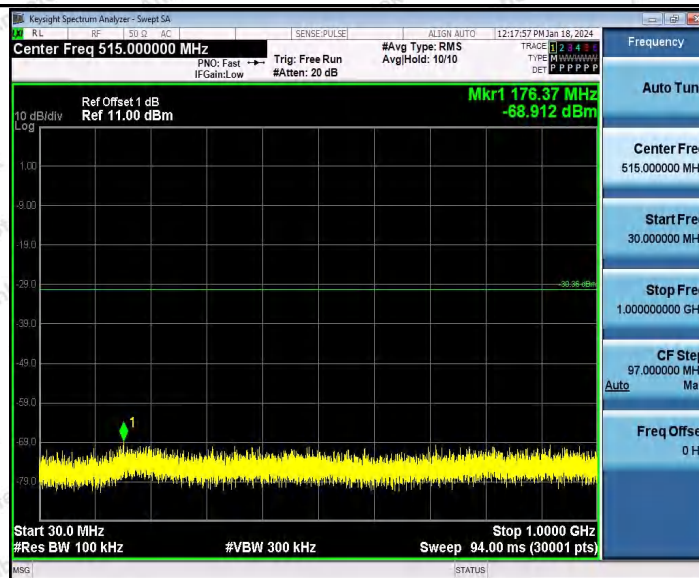
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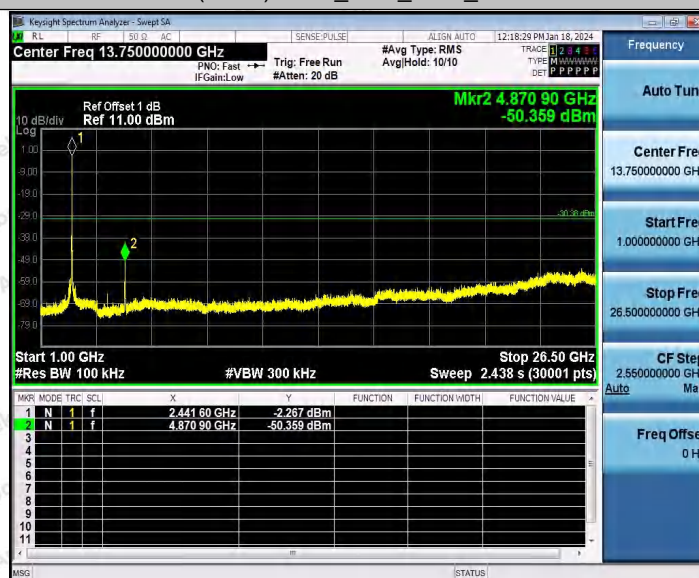


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802.11n(HT20) SISO_Ant1_2437_1000~26500



802.11n(HT20) SISO_Ant1_2462_0~Reference



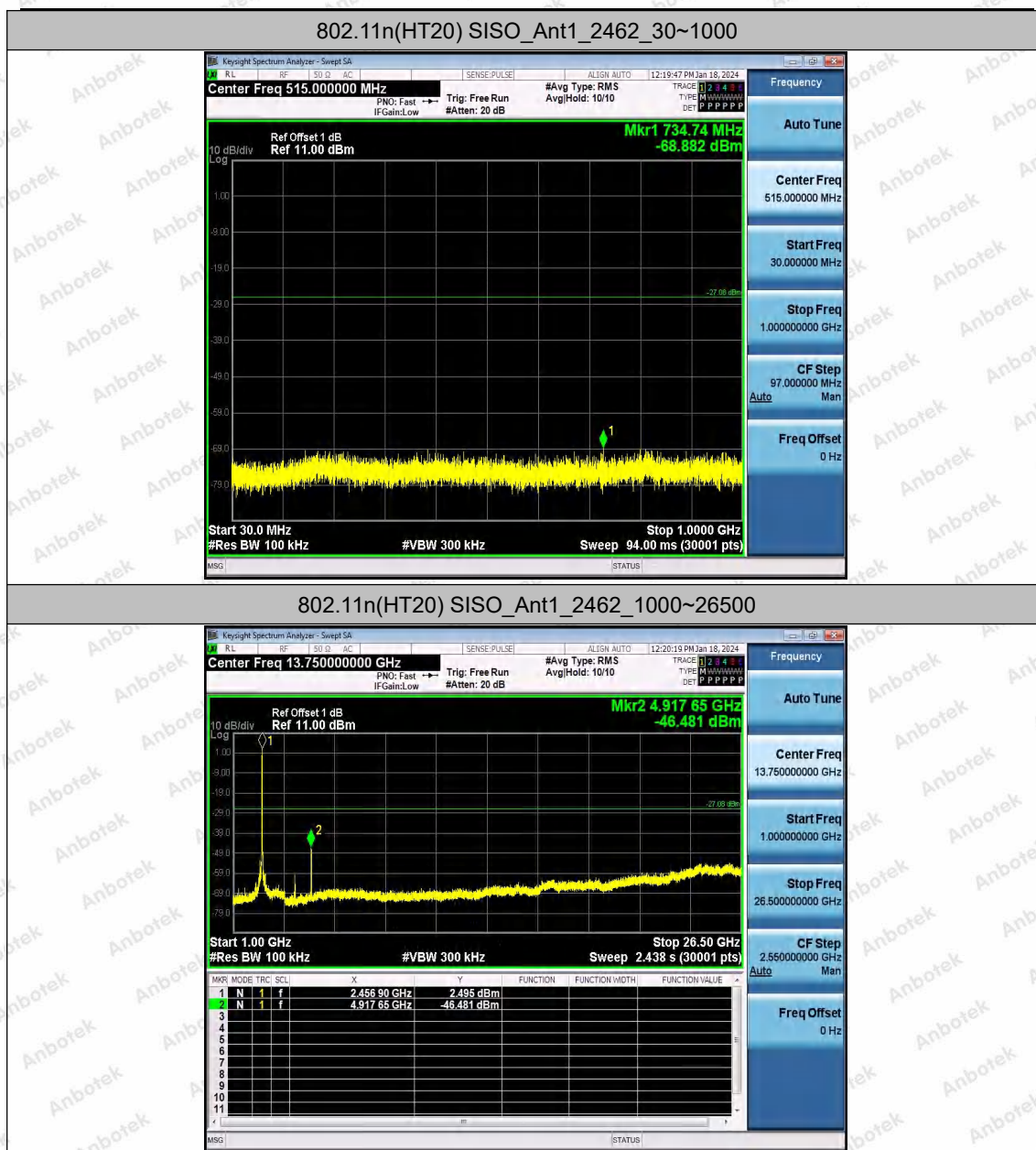
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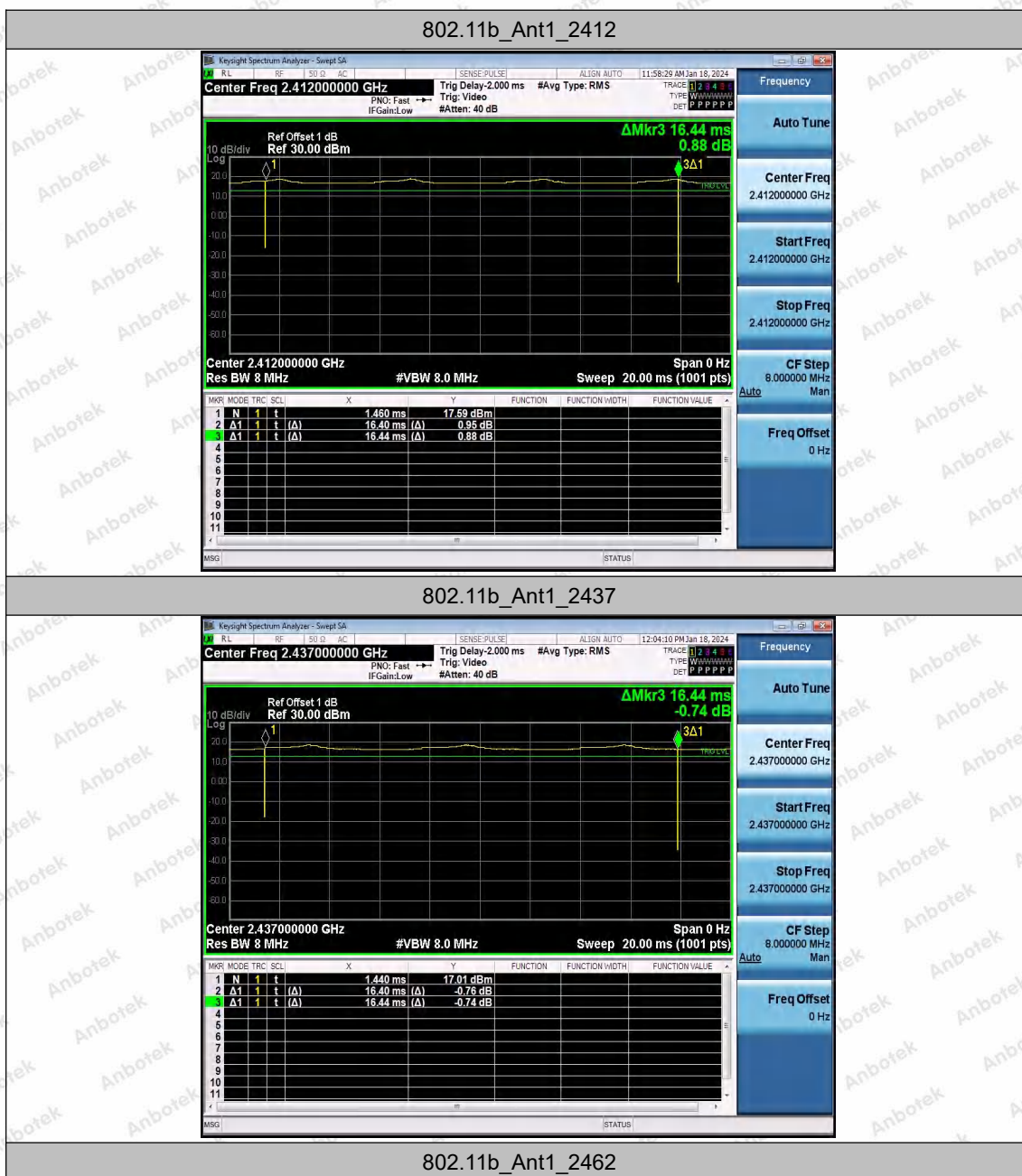
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
802.11b	Ant1	2412	16.40	16.44	99.76	0.01
		2437	16.40	16.44	99.76	0.01
		2462	16.42	16.46	99.76	0.01
802.11g	Ant1	2412	2.73	2.77	98.56	0.06
		2437	2.73	2.77	98.56	0.06
		2462	2.73	2.77	98.56	0.06
802.11n(HT20) SISO	Ant1	2412	2.53	2.57	98.44	0.07
		2437	2.54	2.57	98.83	0.05
		2462	2.53	2.57	98.44	0.07



Test Graphs



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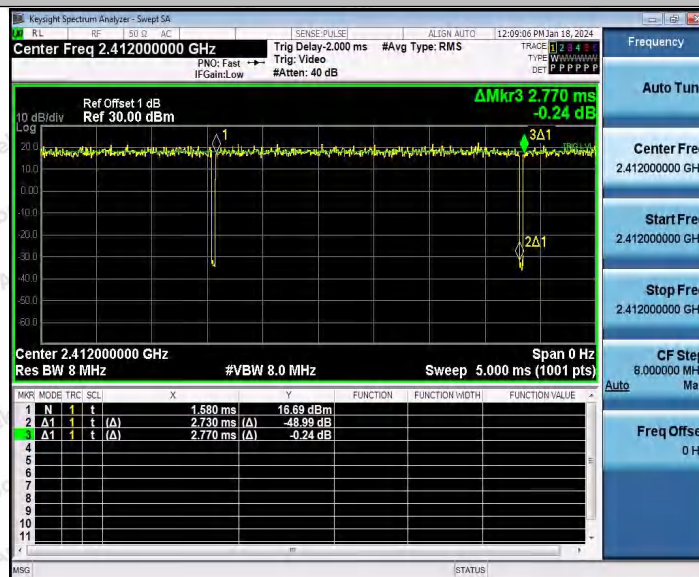
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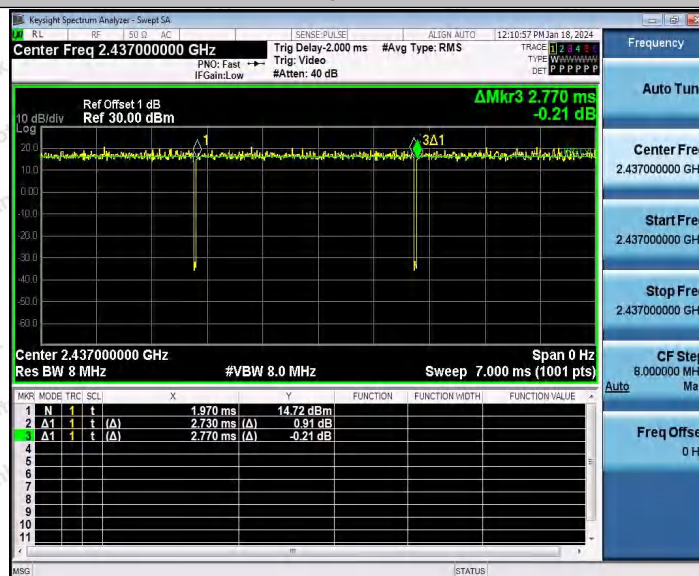




802.11g_Ant1_2412



802.11g_Ant1_2437



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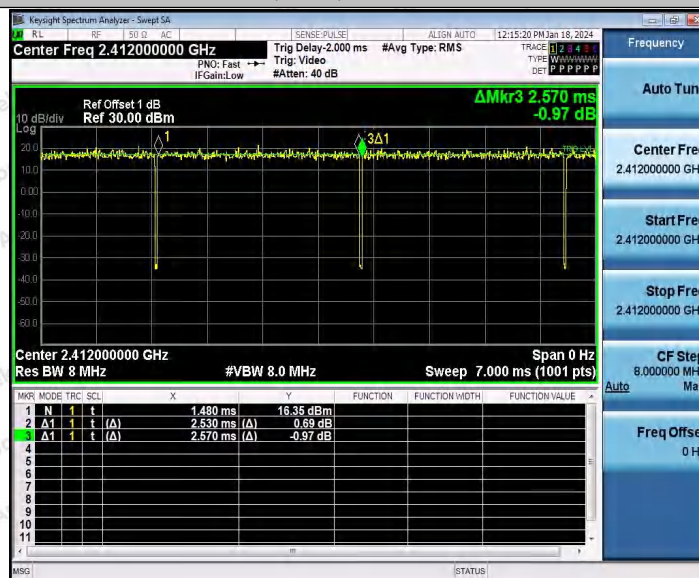
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802.11g_Ant1_2462



802.11n(HT20) SISO_Ant1_2412



802.11n(HT20) SISO_Ant1_2437

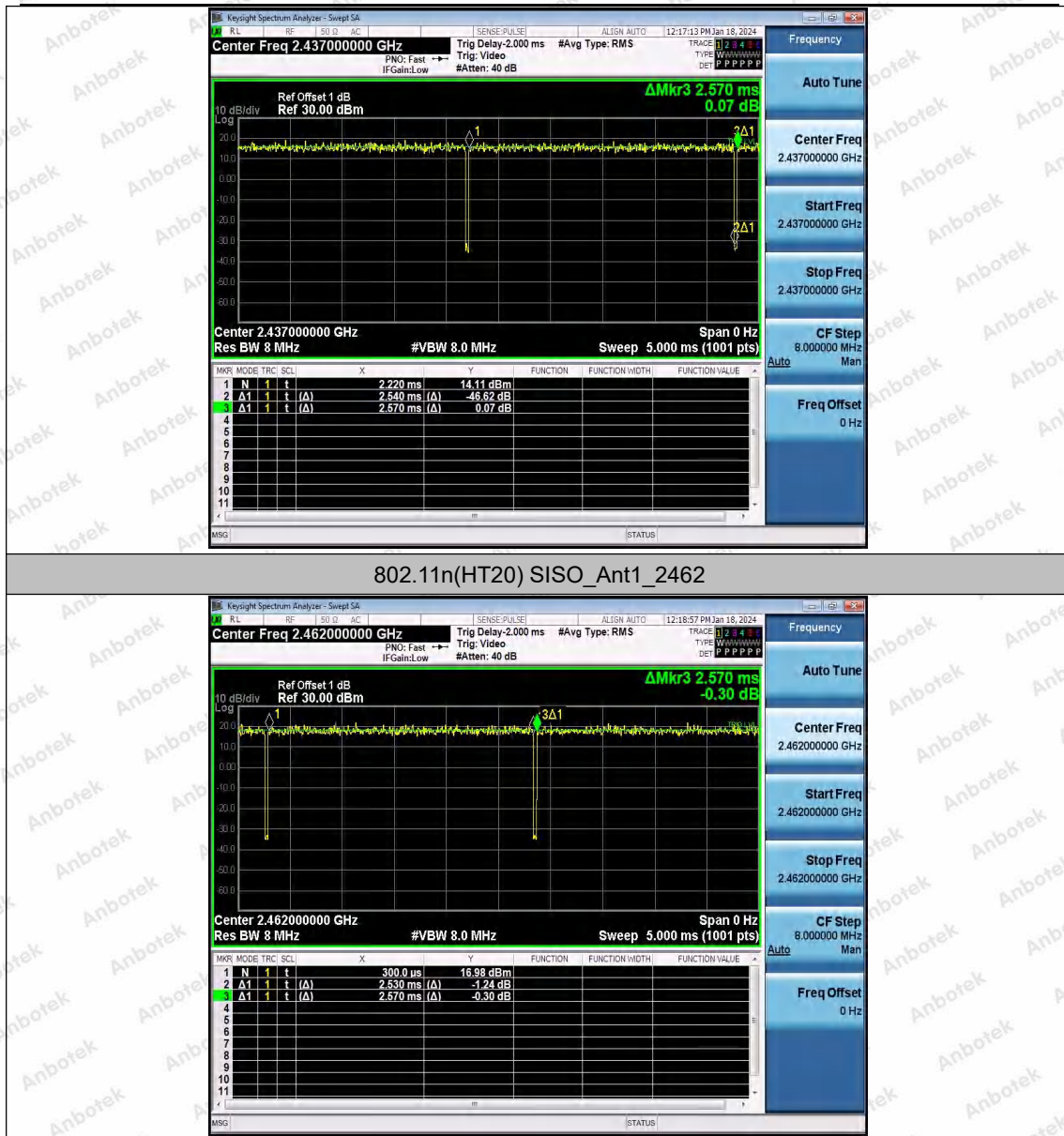
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