

Appendix: 2.4G Wi-Fi

Contents

Appendix A: DTS Bandwidth 3

 Test Result 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth 10

 Test Result 10

 Test Graphs 11

Appendix C: Maximum conducted output power 17

 Test Result Peak 17

Appendix D: Maximum power spectral density 18

 Test Result 18

 Test Graphs 19

Appendix F: Band edge measurements 25

 Test Result 25

 Test Graphs 26

Appendix G: Conducted Spurious Emission 30

 Test Result 30

 Test Graphs 32

Appendix H: Duty Cycle 50

 Test Result 50

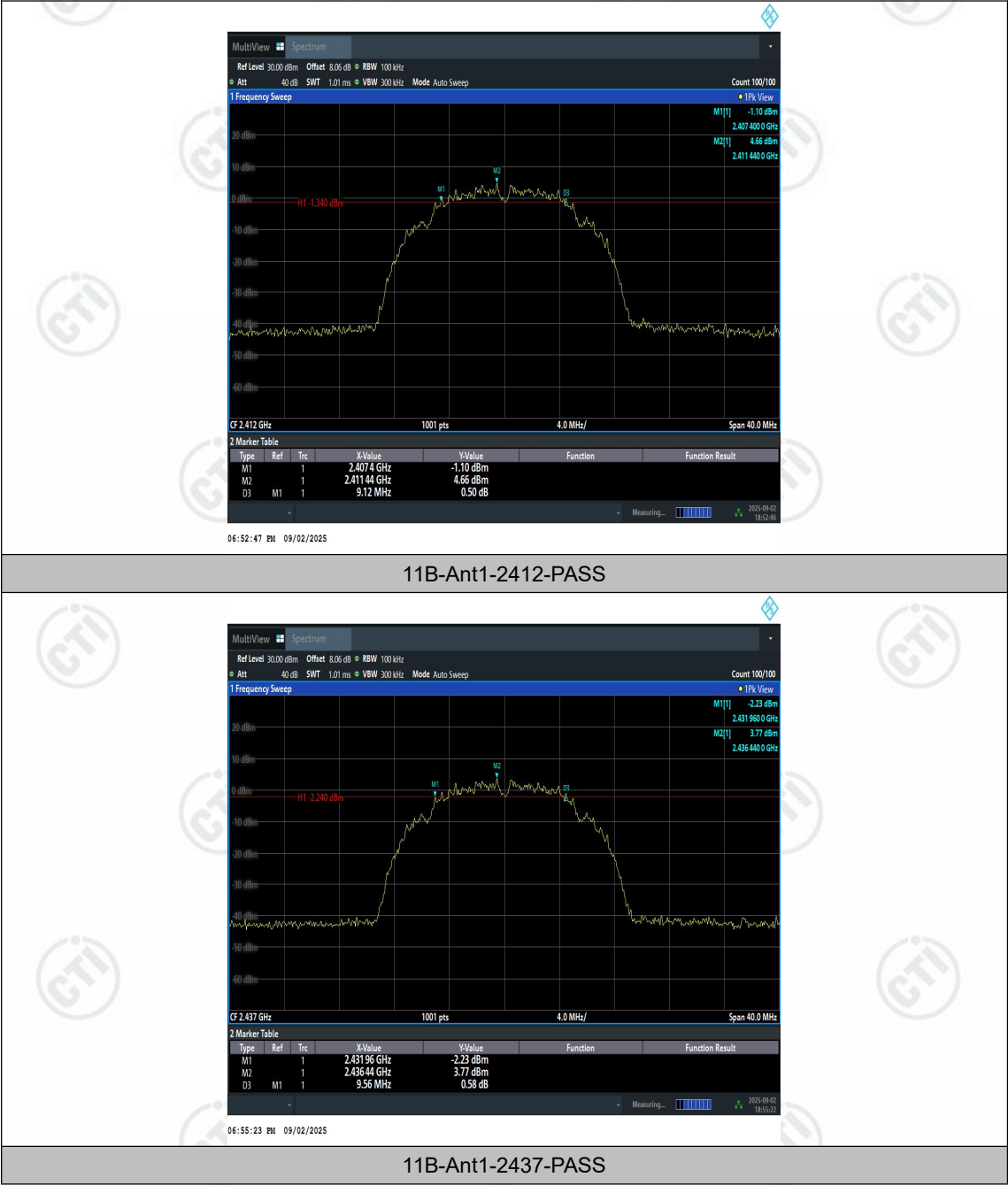
 Test Graphs 51

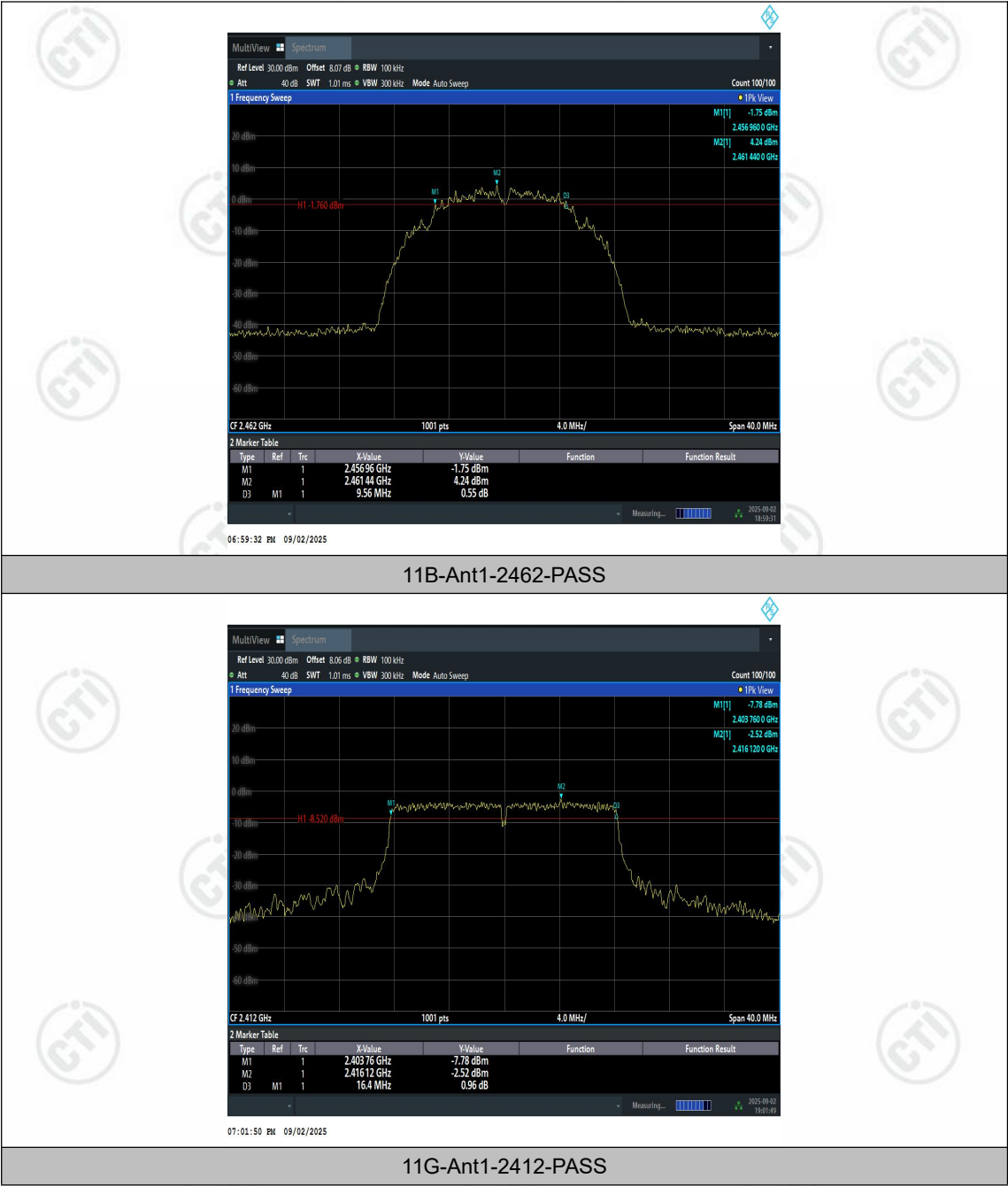
Appendix A: DTS Bandwidth

Test Result

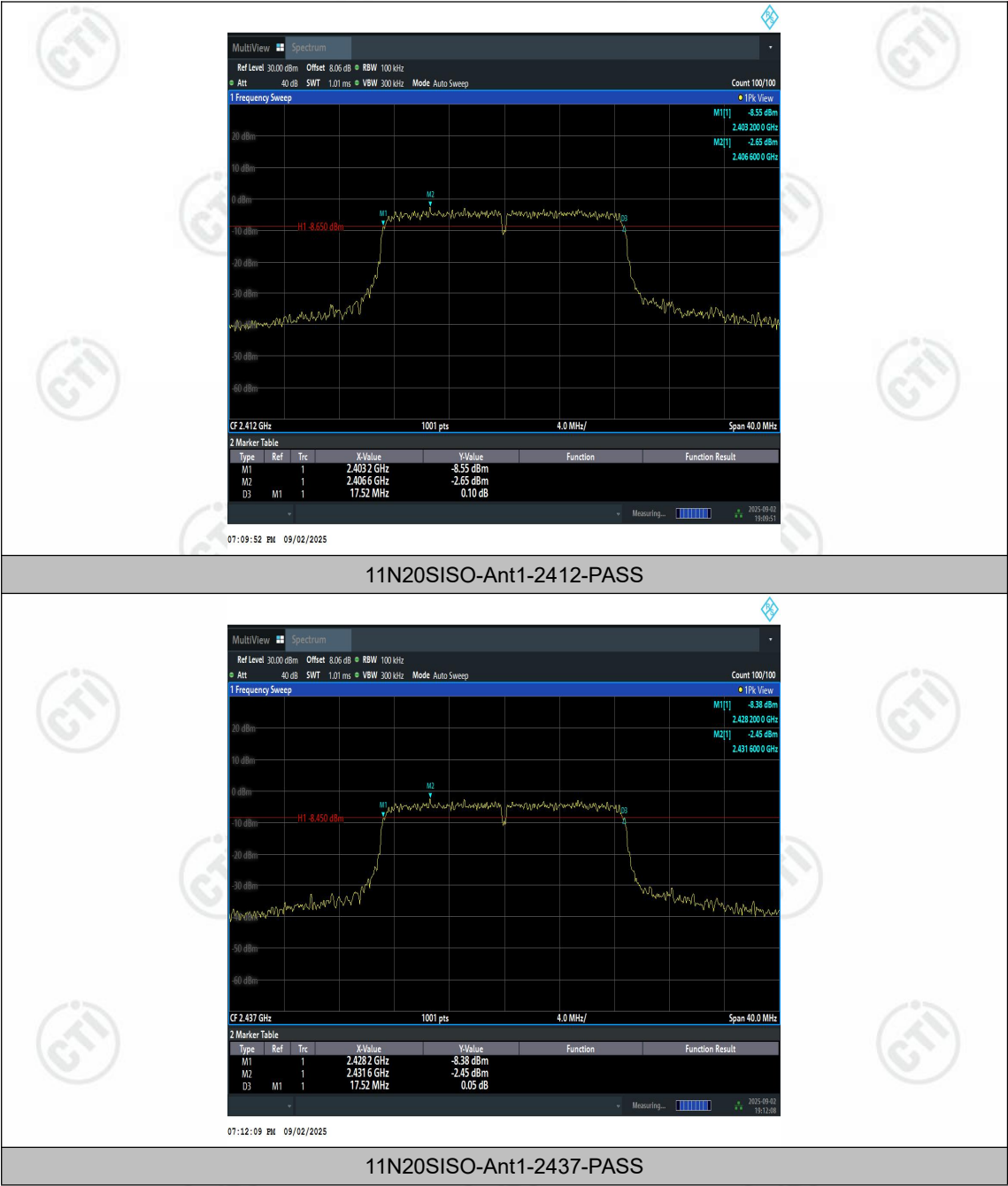
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.12	2407.40	2416.52	0.5	PASS
11B	Ant1	2437	9.56	2431.96	2441.52	0.5	PASS
11B	Ant1	2462	9.56	2456.96	2466.52	0.5	PASS
11G	Ant1	2412	16.40	2403.76	2420.16	0.5	PASS
11G	Ant1	2437	16.40	2428.76	2445.16	0.5	PASS
11G	Ant1	2462	16.40	2453.76	2470.16	0.5	PASS
11N20SISO	Ant1	2412	17.52	2403.20	2420.72	0.5	PASS
11N20SISO	Ant1	2437	17.52	2428.20	2445.72	0.5	PASS
11N20SISO	Ant1	2462	17.40	2453.20	2470.60	0.5	PASS
11N40SISO	Ant1	2422	34.16	2405.12	2439.28	0.5	PASS
11N40SISO	Ant1	2437	34.16	2420.12	2454.28	0.5	PASS
11N40SISO	Ant1	2452	34.16	2435.12	2469.28	0.5	PASS

Test Graphs













Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	13.122	2405.3896	2418.5111	---	---
11B	Ant1	2437	13.108	2430.3936	2443.5016	---	---
11B	Ant1	2462	13.131	2455.3777	2468.5083	---	---
11G	Ant1	2412	16.952	2403.4519	2420.4035	---	---
11G	Ant1	2437	16.995	2428.4194	2445.4139	---	---
11G	Ant1	2462	16.970	2453.4320	2470.4025	---	---
11N20SISO	Ant1	2412	17.601	2403.1876	2420.7882	---	---
11N20SISO	Ant1	2437	17.633	2428.1663	2445.7988	---	---
11N20SISO	Ant1	2462	17.606	2453.1752	2470.7817	---	---
11N40SISO	Ant1	2422	35.080	2404.4955	2439.5751	---	---
11N40SISO	Ant1	2437	35.123	2419.4499	2454.5731	---	---
11N40SISO	Ant1	2452	35.150	2434.4121	2469.5624	---	---

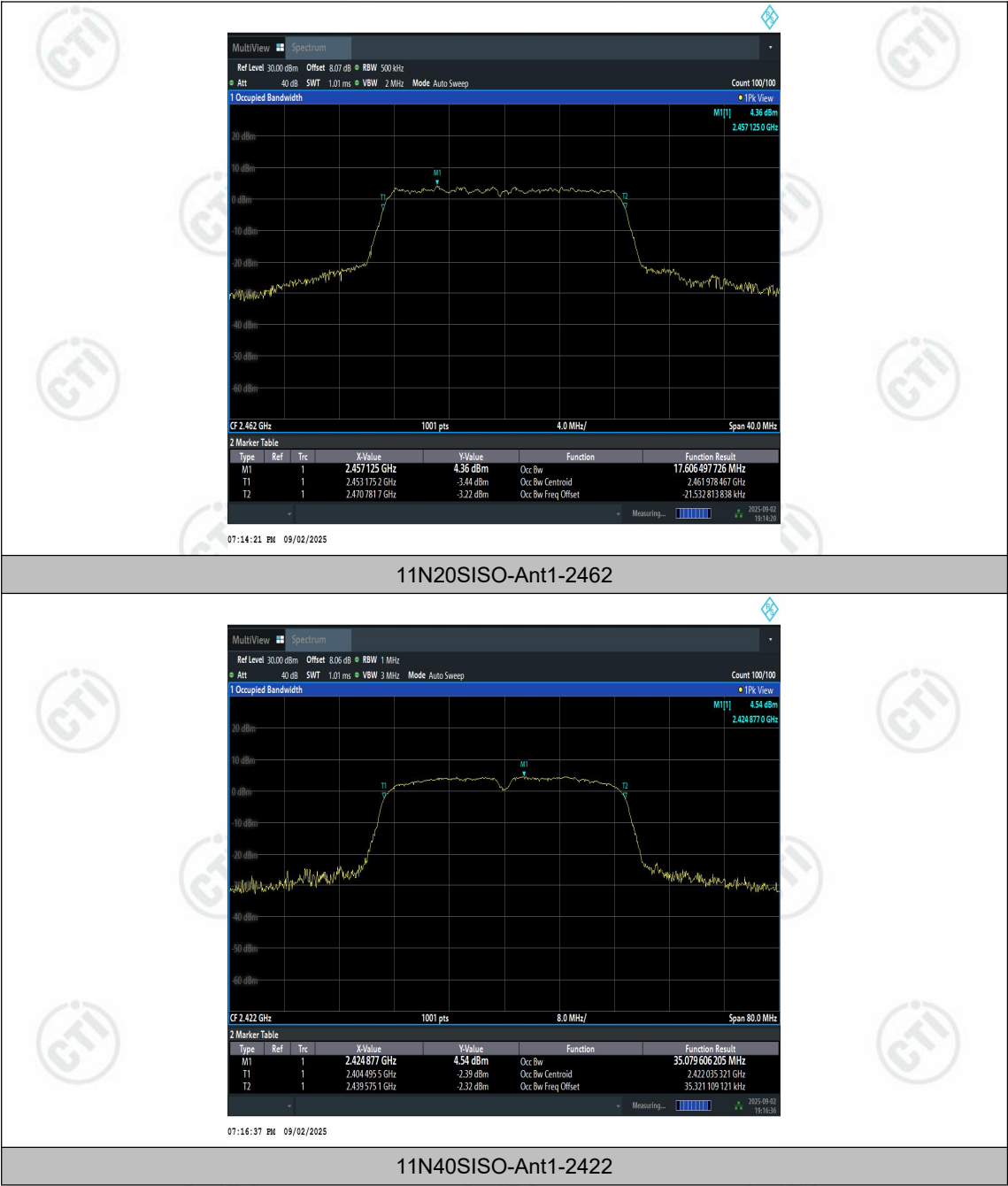
Test Graphs













Appendix C: Maximum conducted output power

Test Result Peak

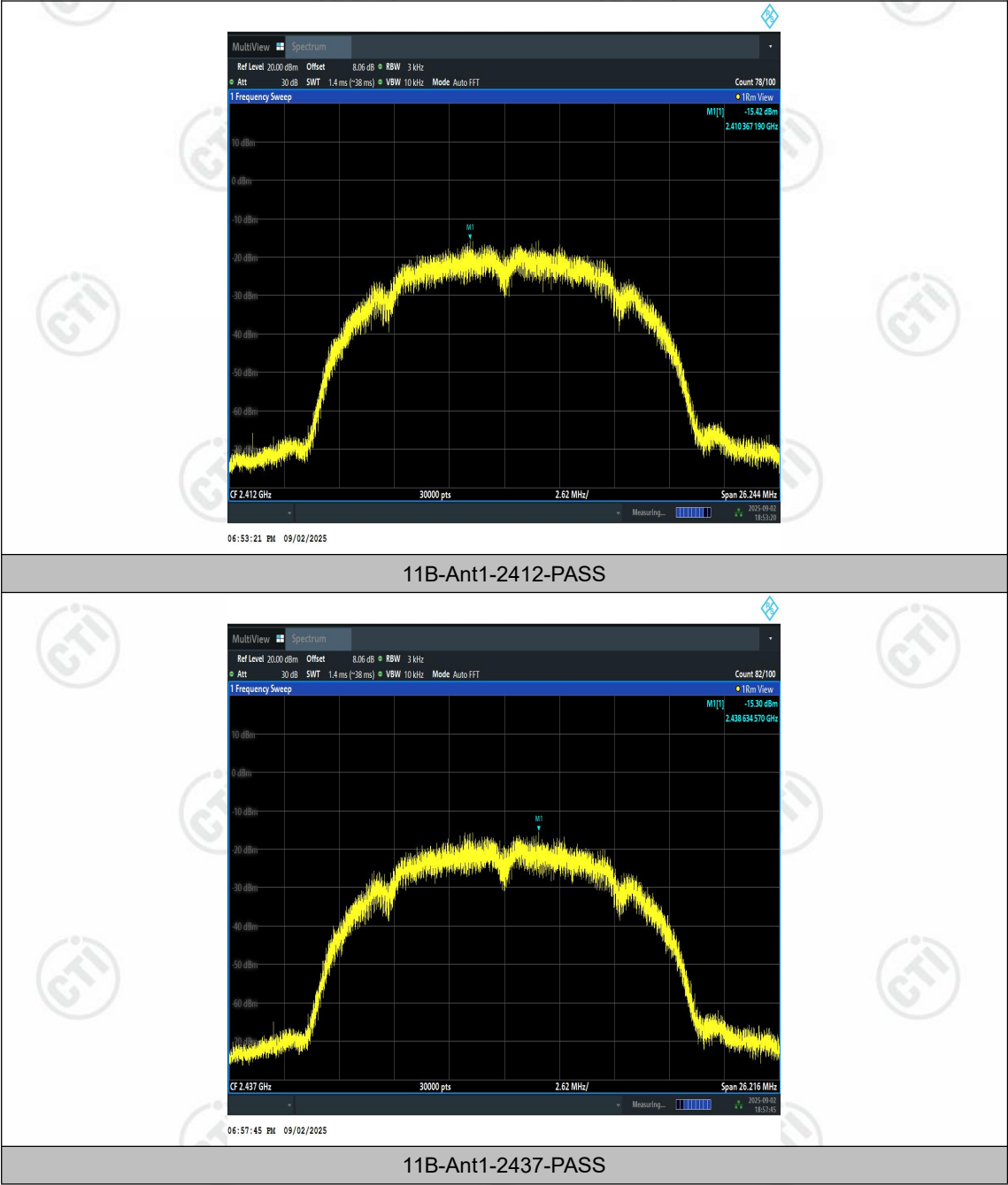
TestMode	Antenna	Frequen cy[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	13.61	≤30.00	PASS
11B	Ant1	2437	13.58	≤30.00	PASS
11B	Ant1	2462	13.38	≤30.00	PASS
11G	Ant1	2412	12.00	≤30.00	PASS
11G	Ant1	2437	12.26	≤30.00	PASS
11G	Ant1	2462	12.05	≤30.00	PASS
11N20SISO	Ant1	2412	12.01	≤30.00	PASS
11N20SISO	Ant1	2437	12.19	≤30.00	PASS
11N20SISO	Ant1	2462	11.93	≤30.00	PASS
11N40SISO	Ant1	2422	11.34	≤30.00	PASS
11N40SISO	Ant1	2437	11.67	≤30.00	PASS
11N40SISO	Ant1	2452	11.75	≤30.00	PASS

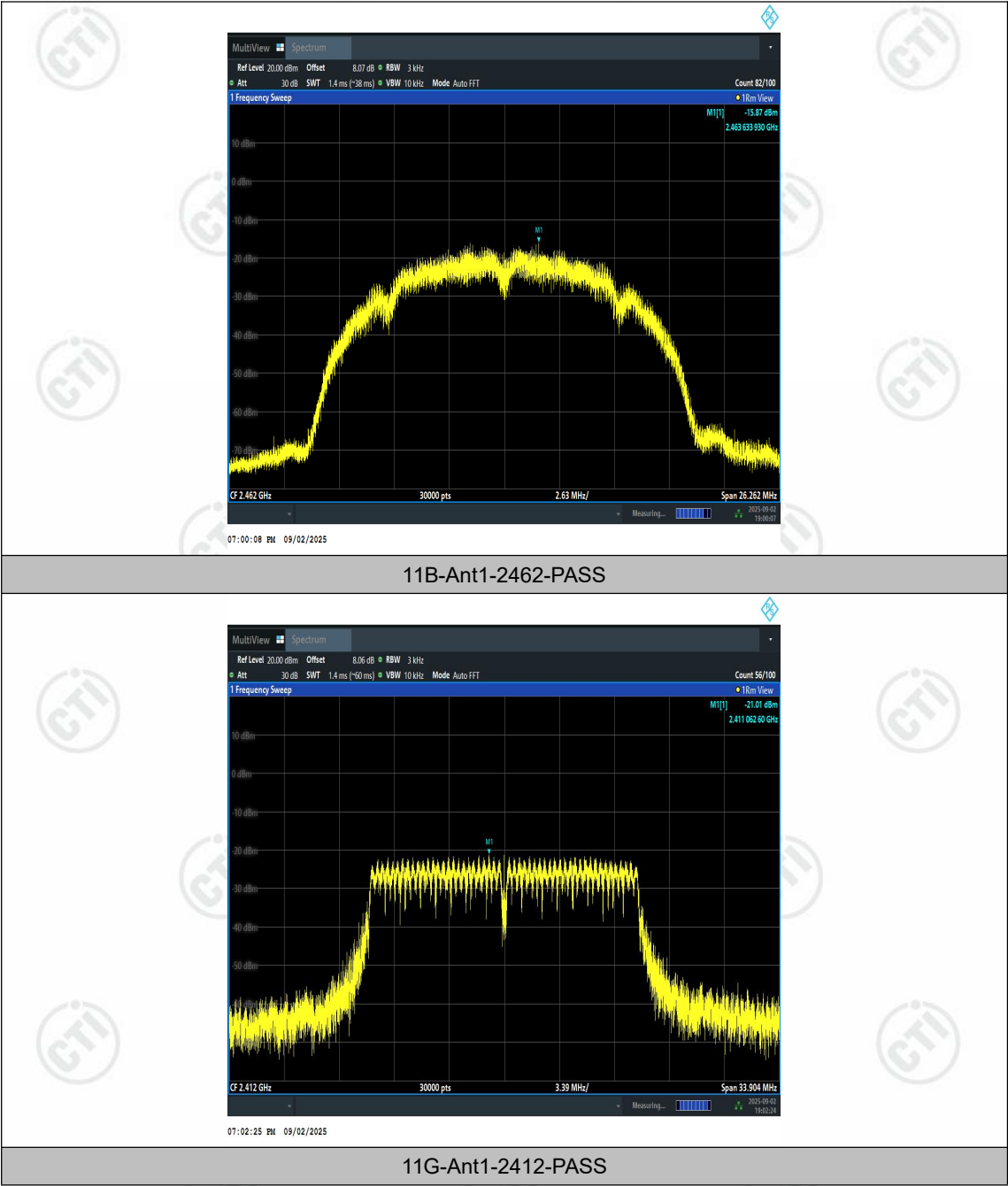
Appendix D: Maximum power spectral density

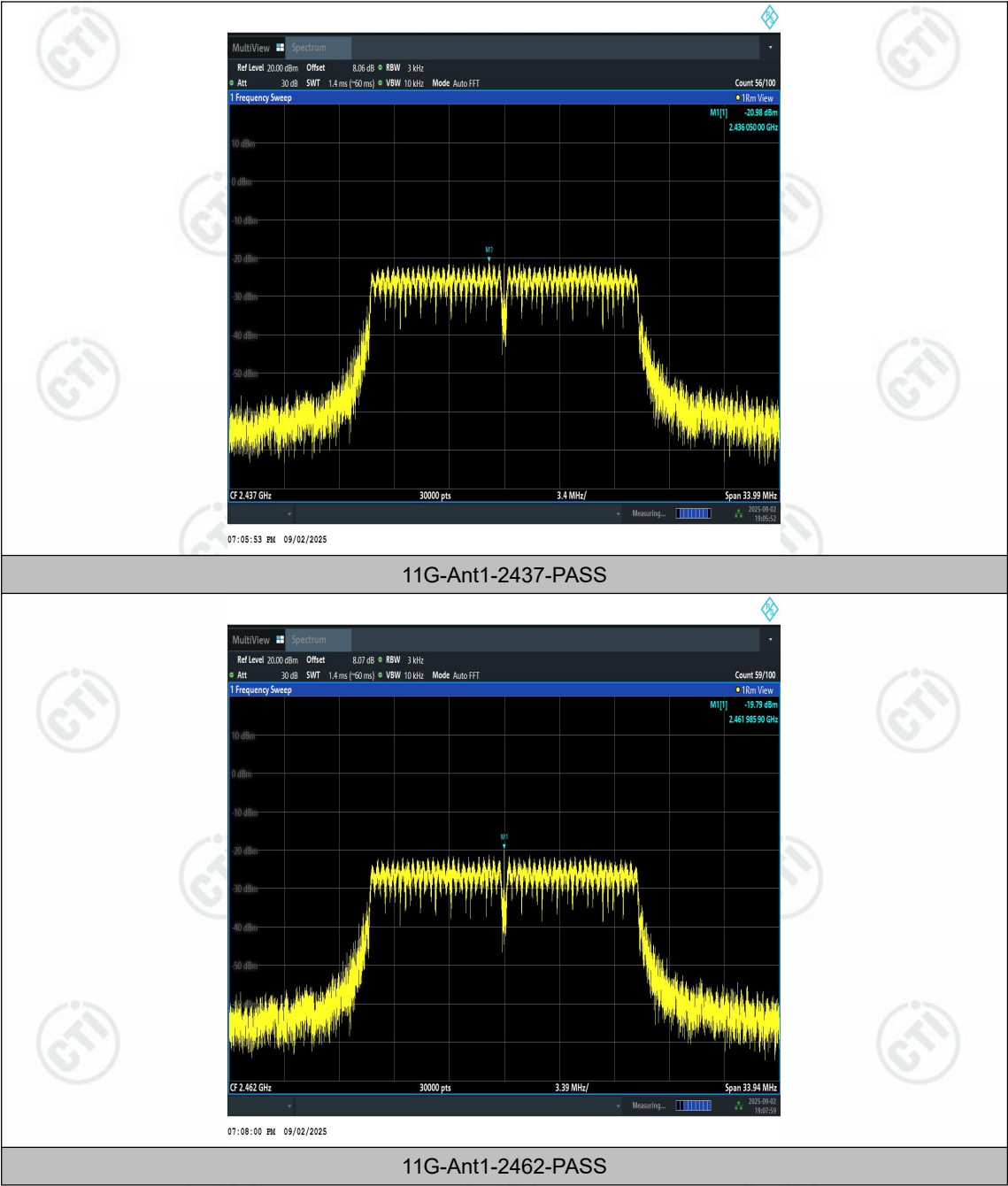
Test Result

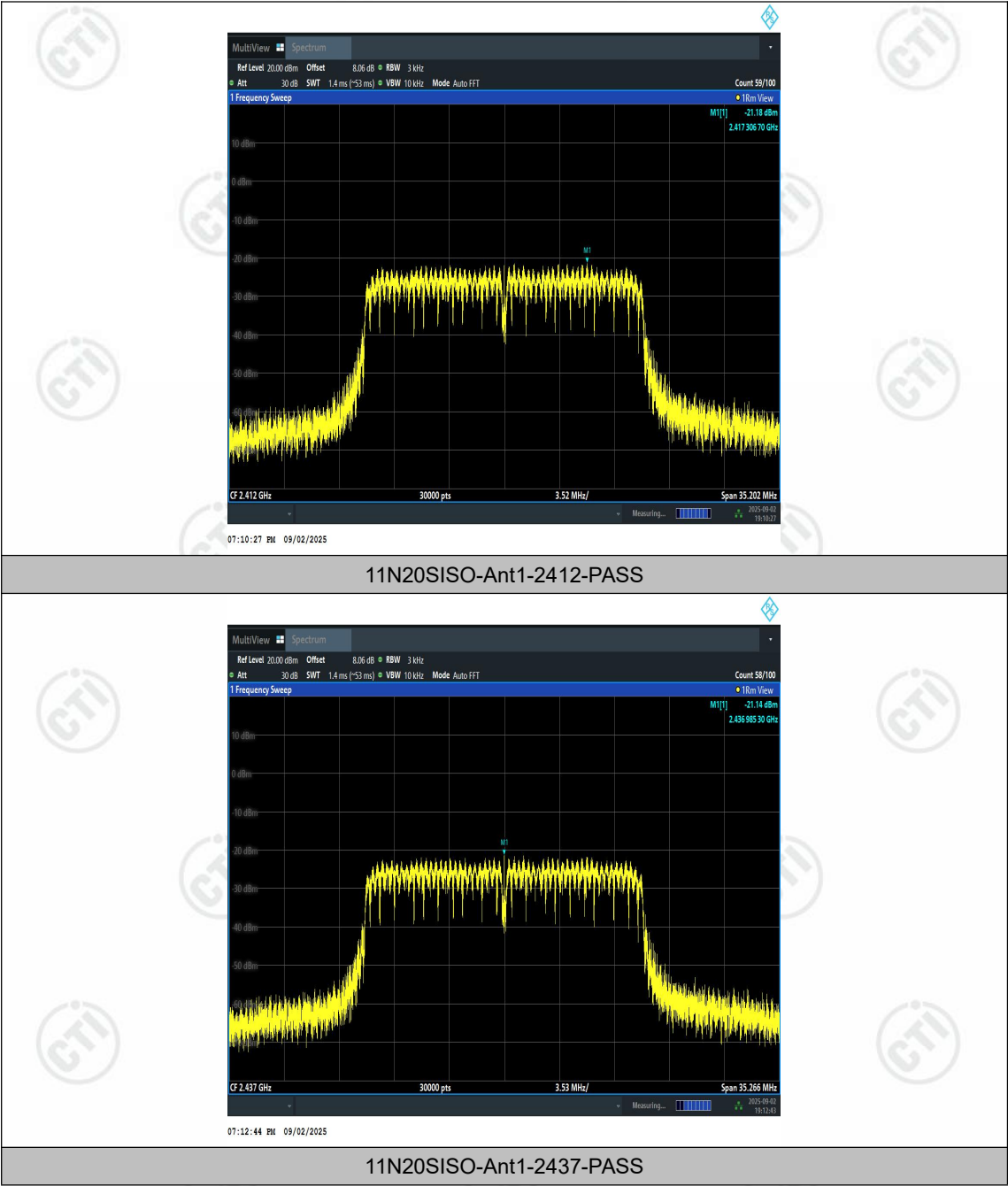
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.42	≤8.00	PASS
11B	Ant1	2437	-15.30	≤8.00	PASS
11B	Ant1	2462	-15.87	≤8.00	PASS
11G	Ant1	2412	-21.01	≤8.00	PASS
11G	Ant1	2437	-20.98	≤8.00	PASS
11G	Ant1	2462	-19.79	≤8.00	PASS
11N20SISO	Ant1	2412	-21.18	≤8.00	PASS
11N20SISO	Ant1	2437	-21.14	≤8.00	PASS
11N20SISO	Ant1	2462	-20.39	≤8.00	PASS
11N40SISO	Ant1	2422	-21.24	≤8.00	PASS
11N40SISO	Ant1	2437	-22.14	≤8.00	PASS
11N40SISO	Ant1	2452	-22.04	≤8.00	PASS

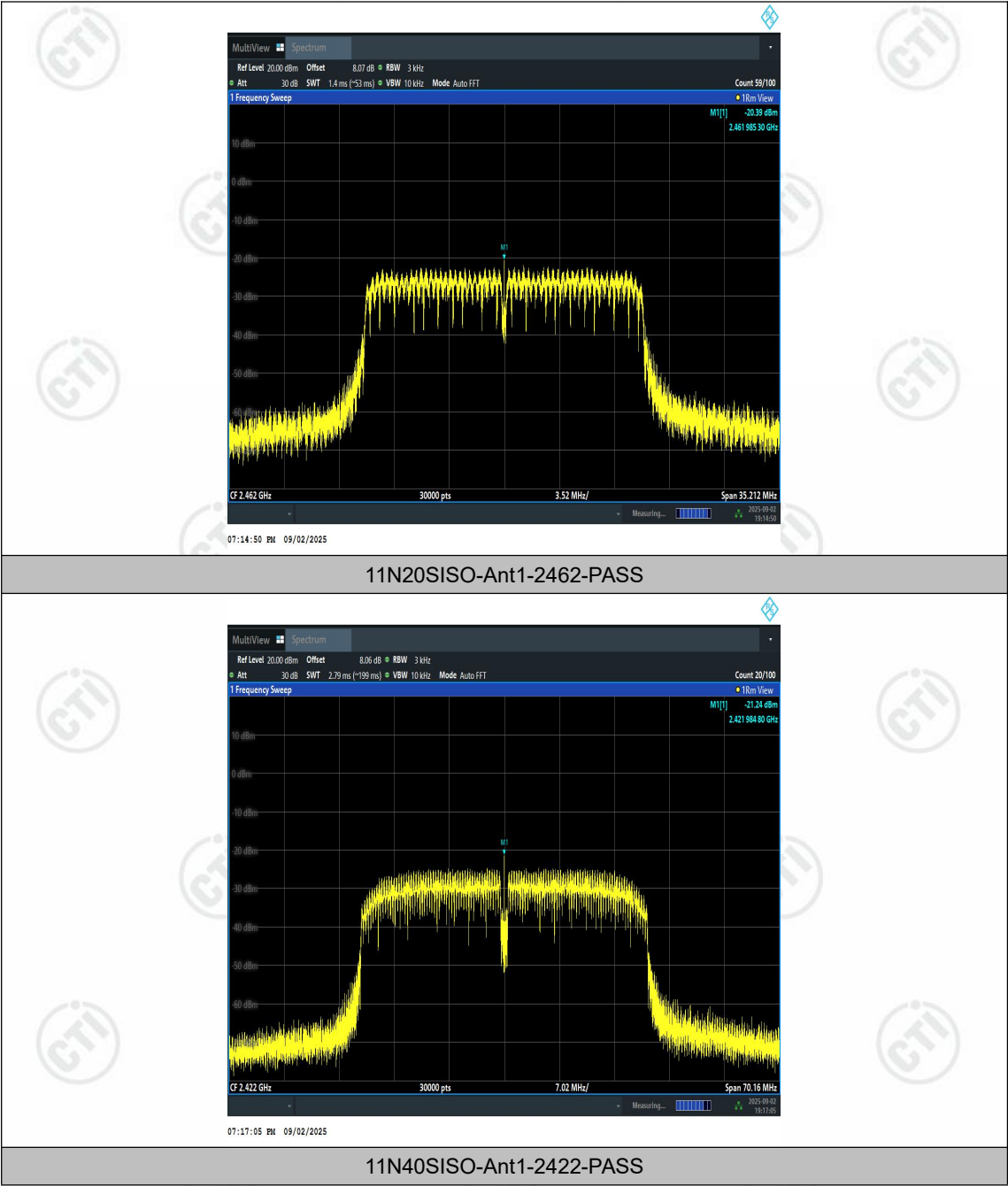
Test Graphs

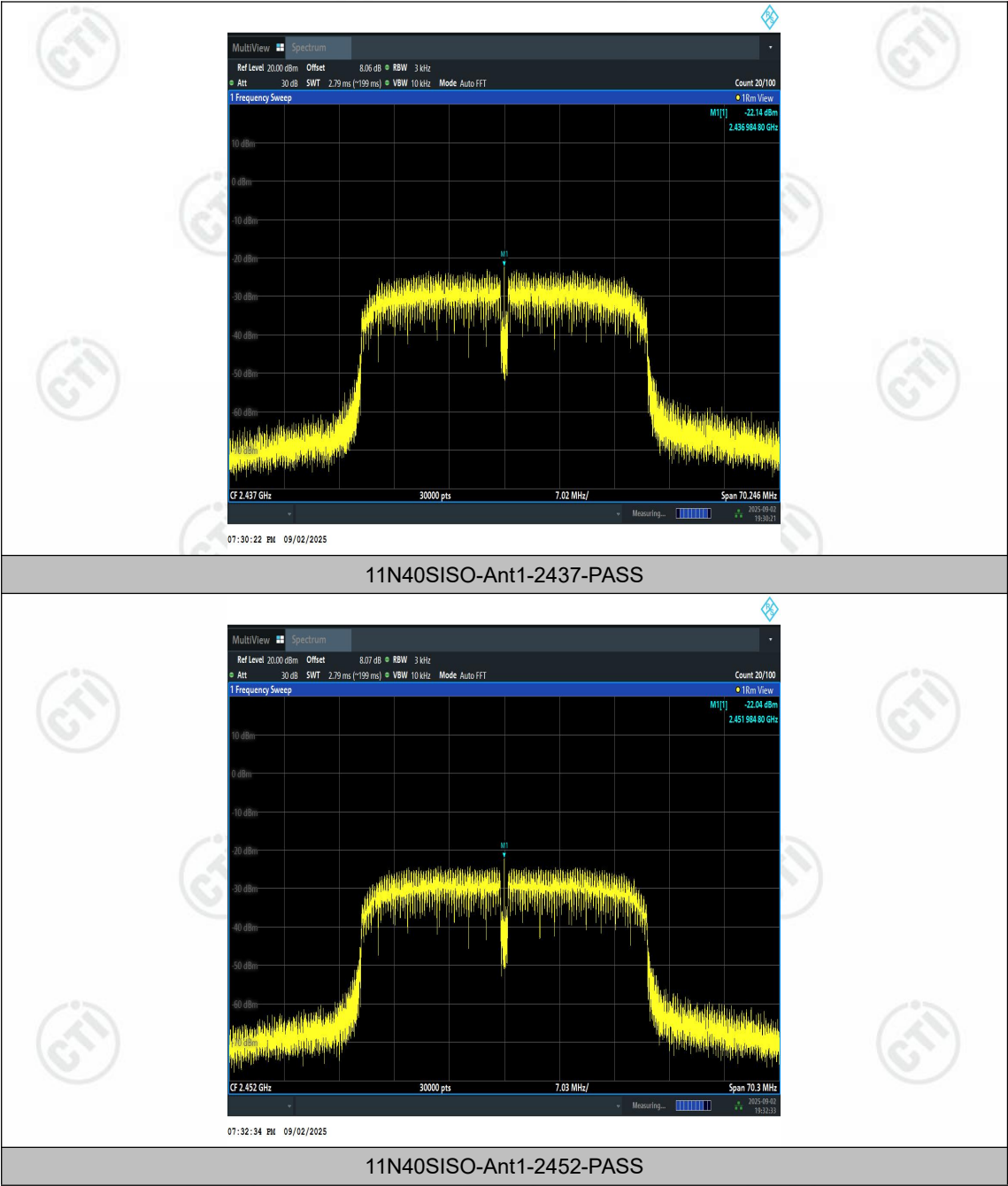












Appendix F: Band edge measurements

Test Result

Test Mode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	4.76	-43.74	≤-15.24	PASS
11B	Ant1	High	2462	4.43	-49.31	≤-15.57	PASS
11G	Ant1	Low	2412	-2.68	-30.78	≤-22.68	PASS
11G	Ant1	High	2462	-2.87	-44.68	≤-22.87	PASS
11N20SISO	Ant1	Low	2412	-2.73	-34.3	≤-22.73	PASS
11N20SISO	Ant1	High	2462	-2.95	-42.79	≤-22.95	PASS
11N40SISO	Ant1	Low	2422	-6.57	-40.46	≤-26.57	PASS
11N40SISO	Ant1	High	2452	-6.10	-40.82	≤-26.1	PASS