

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 17

Appendix D: Maximum power spectral density 18

 Test Result 18

 Test Graphs 19

Appendix E: Band edge measurements 25

 Test Result 25

 Test Graphs 26

Appendix F: Conducted Spurious Emission 30

 Test Result 30

 Test Graphs 31

Appendix G: Duty Cycle 49

 Test Result 49

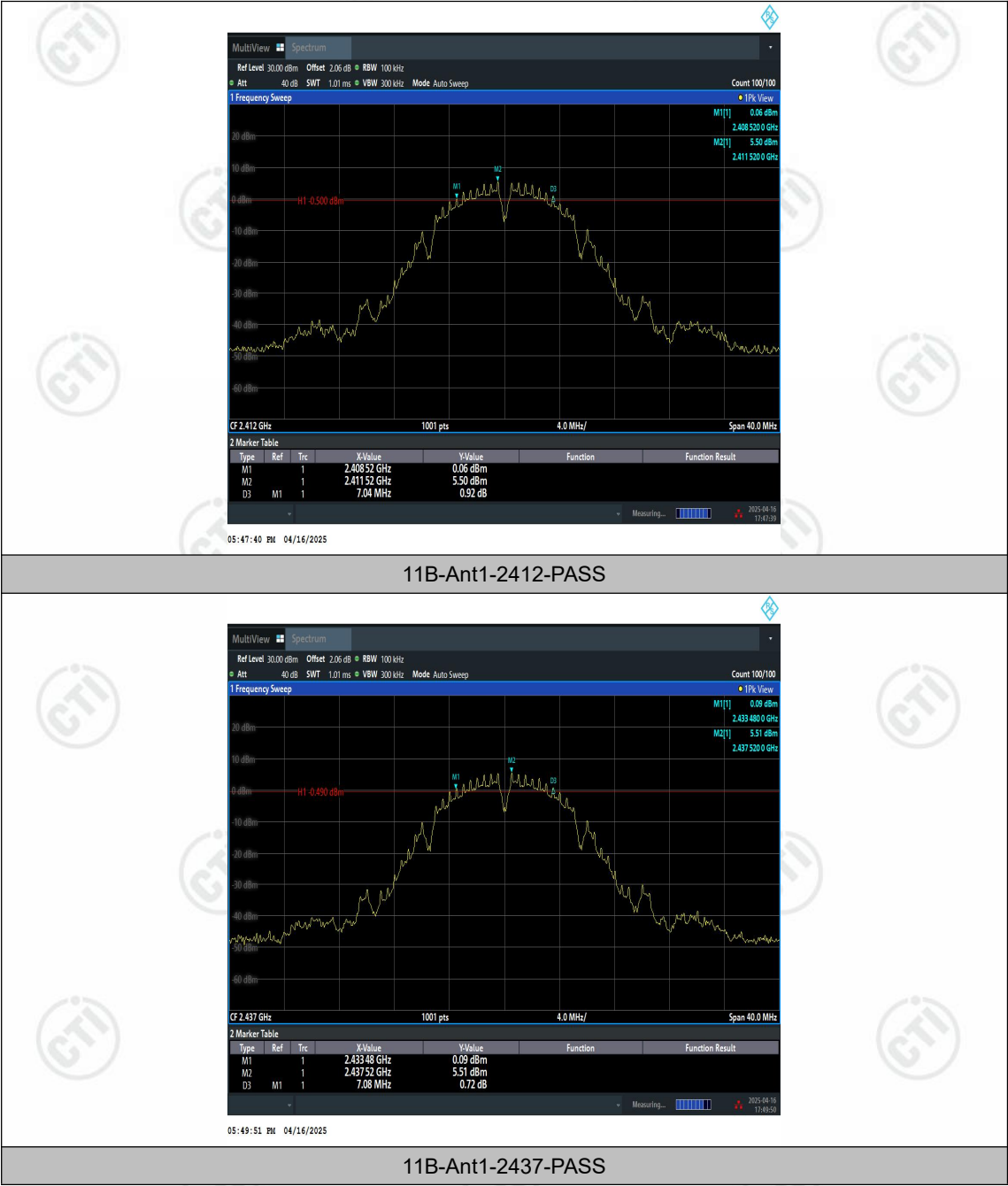
 Test Graphs 50

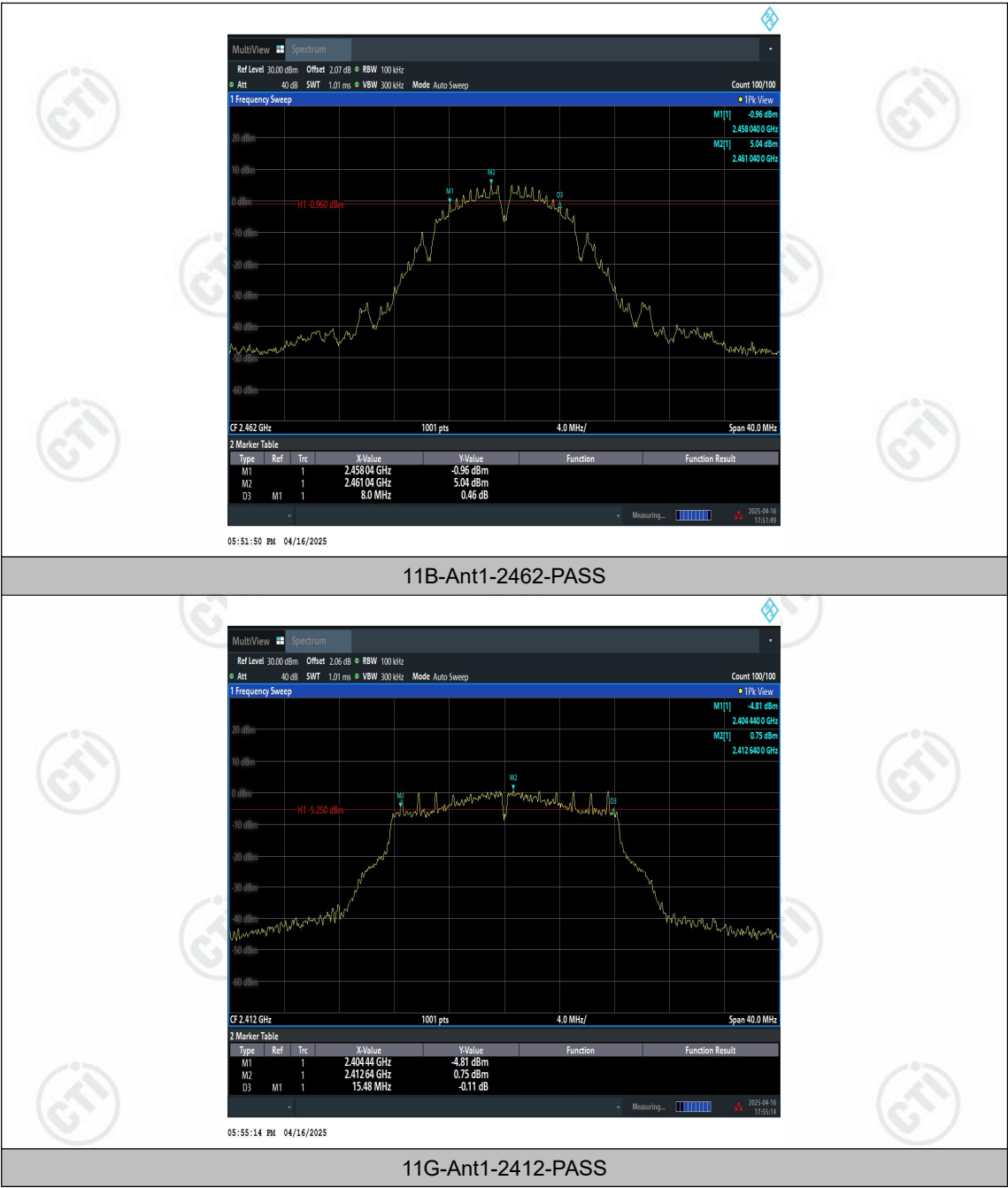
Appendix A: DTS Bandwidth

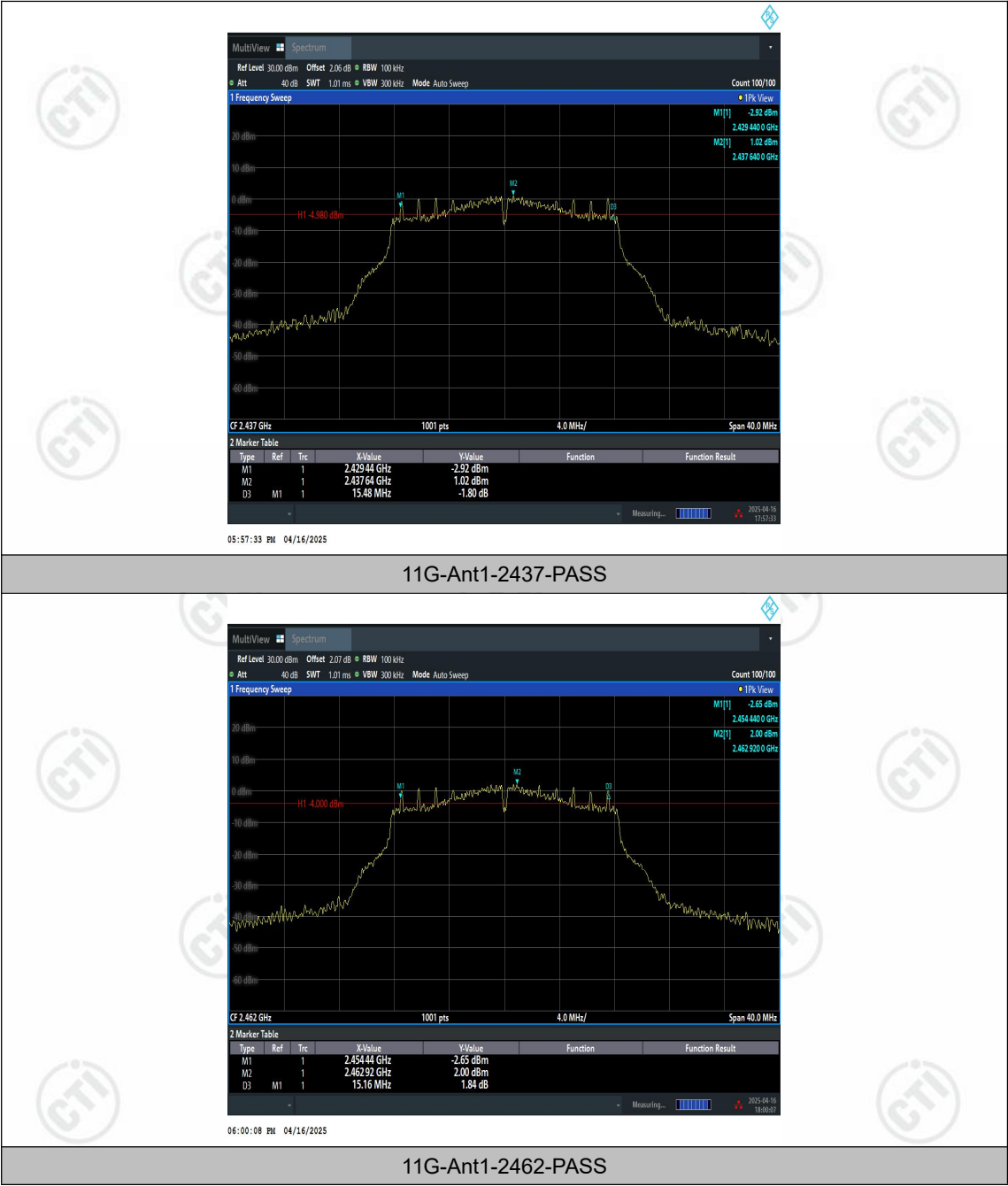
Test Result

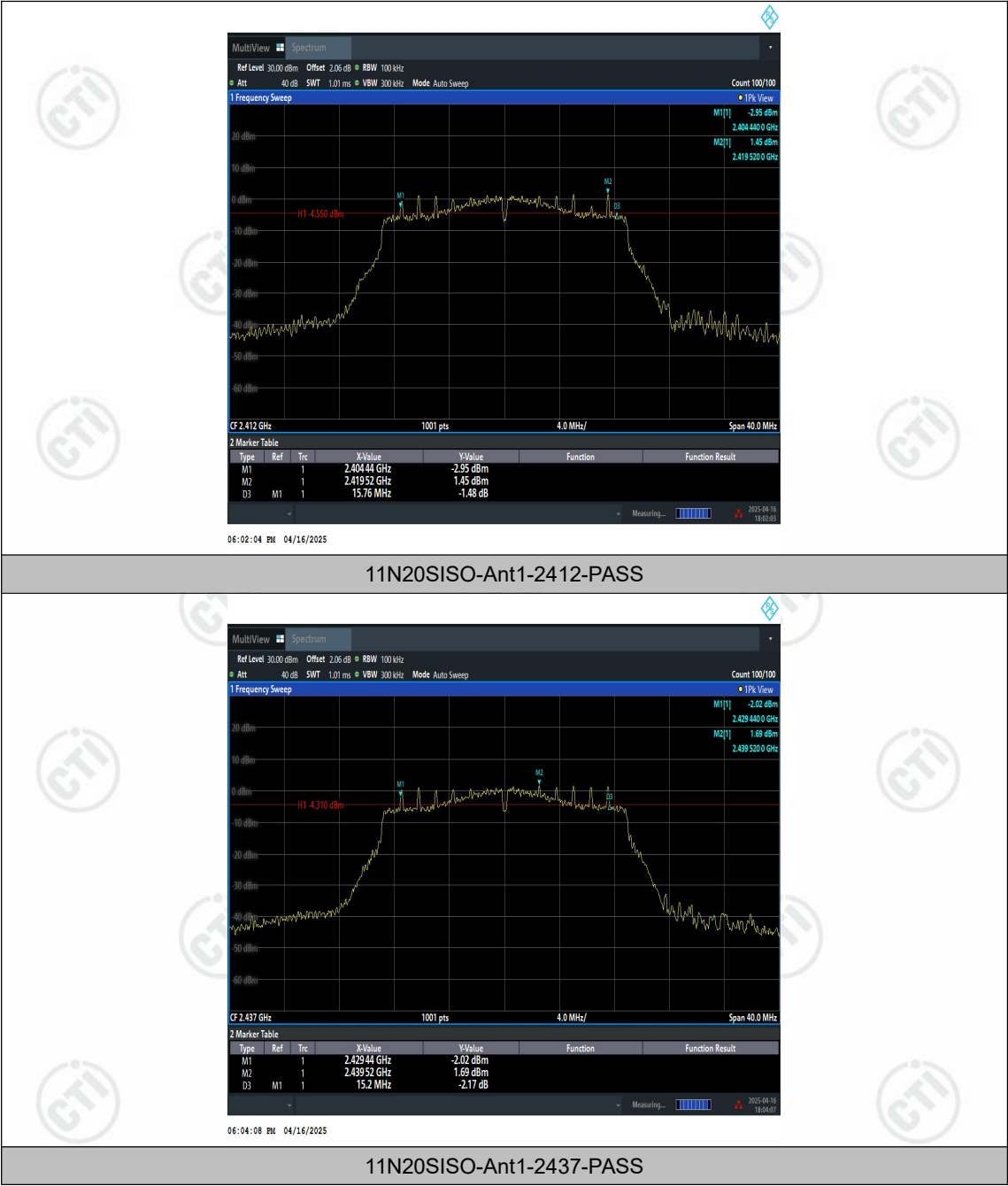
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.04	2408.52	2415.56	0.5	PASS
11B	Ant1	2437	7.08	2433.48	2440.56	0.5	PASS
11B	Ant1	2462	8.00	2458.04	2466.04	0.5	PASS
11G	Ant1	2412	15.48	2404.44	2419.92	0.5	PASS
11G	Ant1	2437	15.48	2429.44	2444.92	0.5	PASS
11G	Ant1	2462	15.16	2454.44	2469.60	0.5	PASS
11N20SISO	Ant1	2412	15.76	2404.44	2420.20	0.5	PASS
11N20SISO	Ant1	2437	15.20	2429.44	2444.64	0.5	PASS
11N20SISO	Ant1	2462	15.16	2454.44	2469.60	0.5	PASS
11N40SISO	Ant1	2422	35.20	2404.48	2439.68	0.5	PASS
11N40SISO	Ant1	2437	35.20	2419.48	2454.68	0.5	PASS
11N40SISO	Ant1	2452	35.20	2434.48	2469.68	0.5	PASS

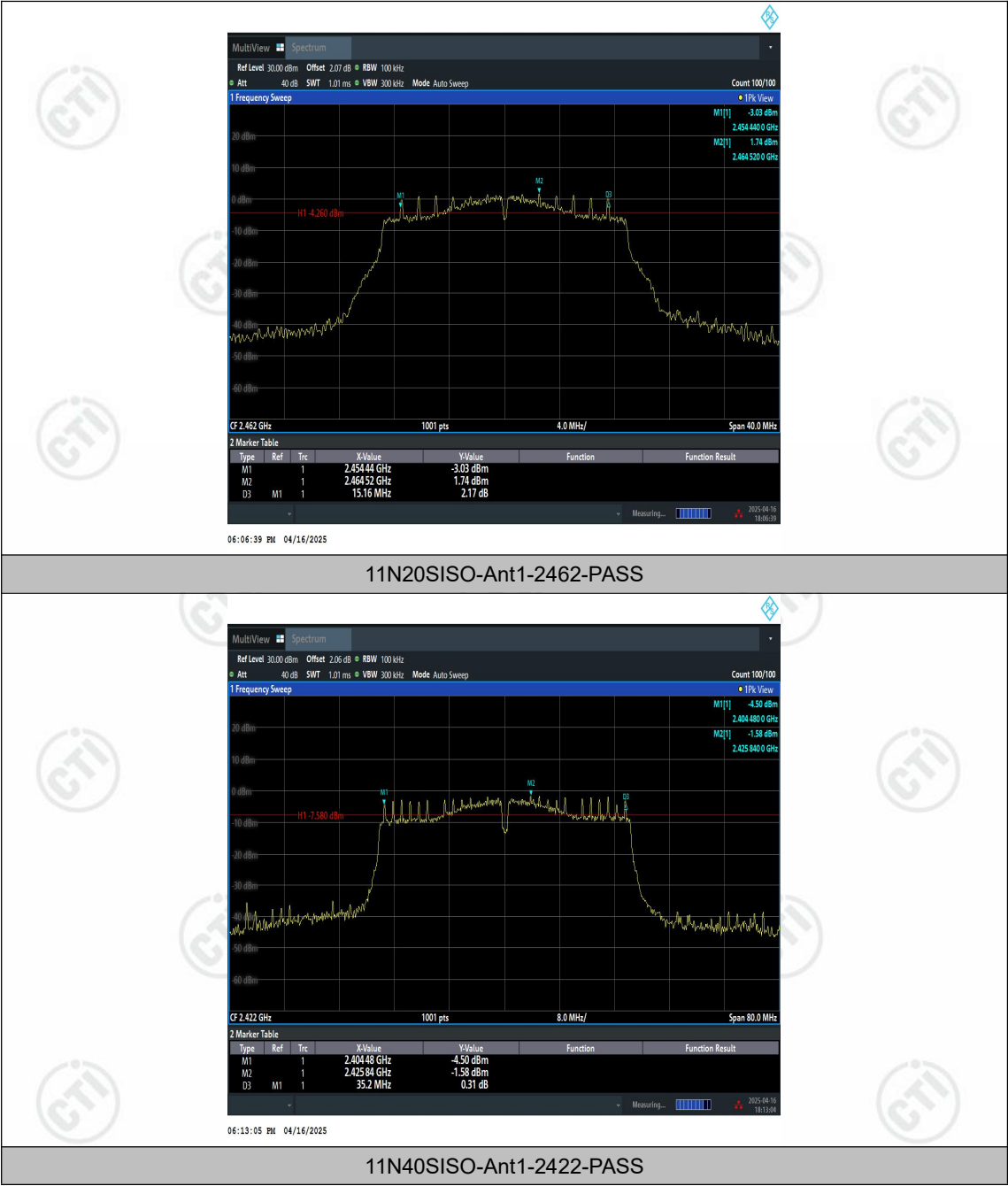
Test Graphs

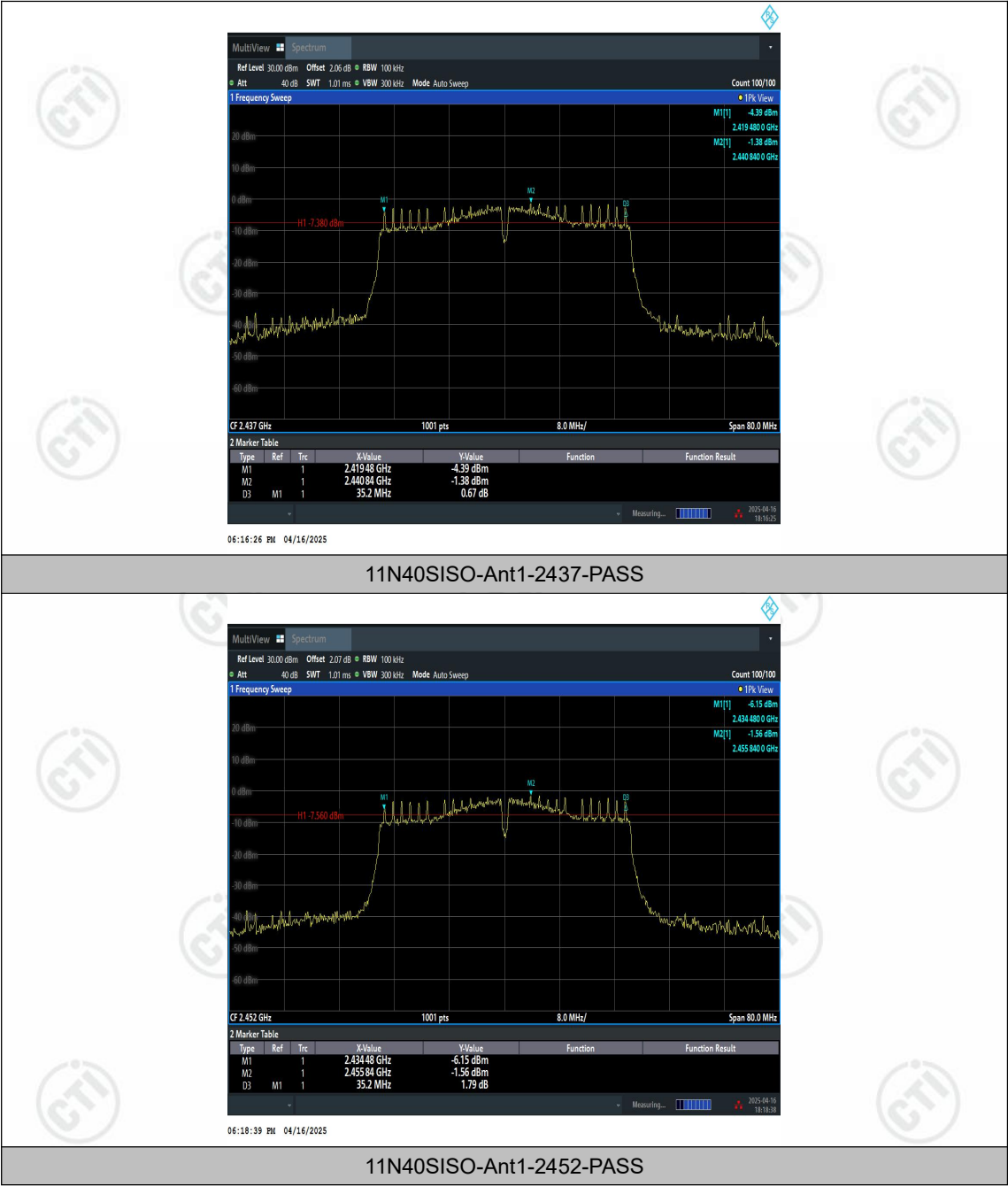












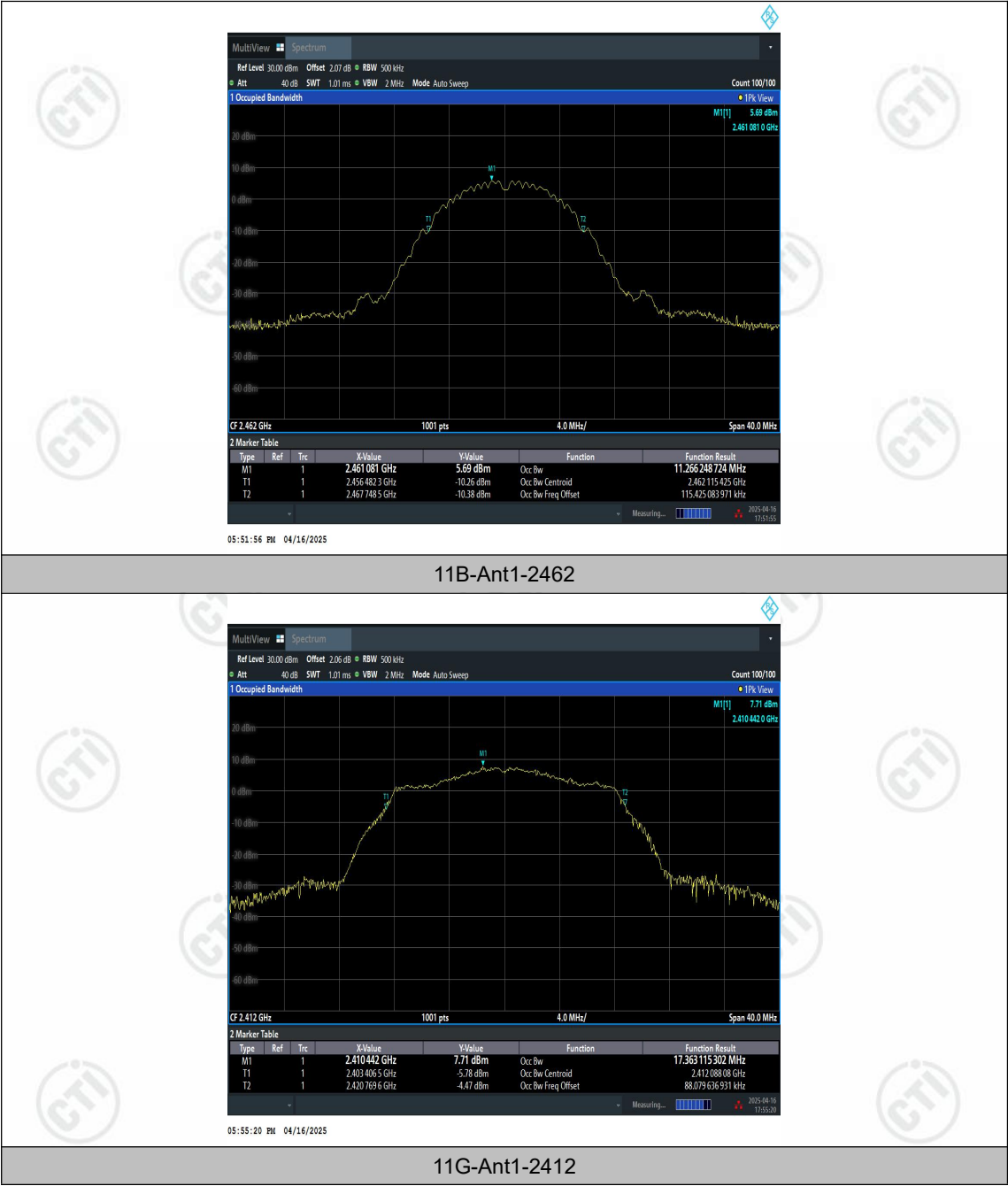
Appendix B: Occupied Channel Bandwidth

Test Result

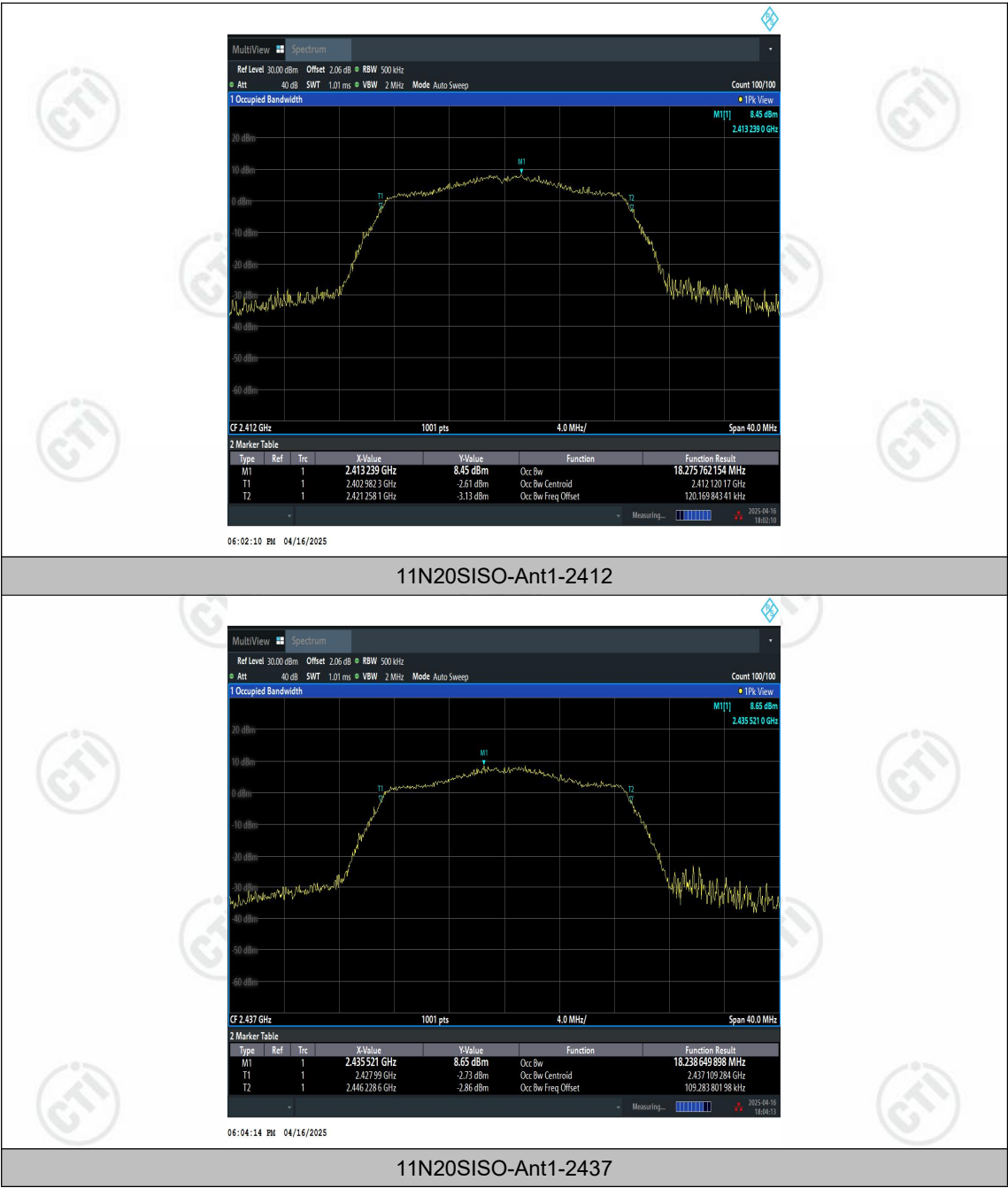
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	11.331	2406.4486	2417.7800	---	---
11B	Ant1	2437	11.298	2431.4912	2442.7889	---	---
11B	Ant1	2462	11.266	2456.4823	2467.7485	---	---
11G	Ant1	2412	17.363	2403.4065	2420.7696	---	---
11G	Ant1	2437	17.393	2428.4271	2445.8206	---	---
11G	Ant1	2462	17.171	2453.4529	2470.6239	---	---
11N20SISO	Ant1	2412	18.276	2402.9823	2421.2581	---	---
11N20SISO	Ant1	2437	18.239	2427.9900	2446.2286	---	---
11N20SISO	Ant1	2462	18.017	2453.0485	2471.0659	---	---
11N40SISO	Ant1	2422	36.055	2404.1011	2440.1560	---	---
11N40SISO	Ant1	2437	36.02	2419.1342	2455.1546	---	---
11N40SISO	Ant1	2452	36.003	2434.1251	2470.1283	---	---

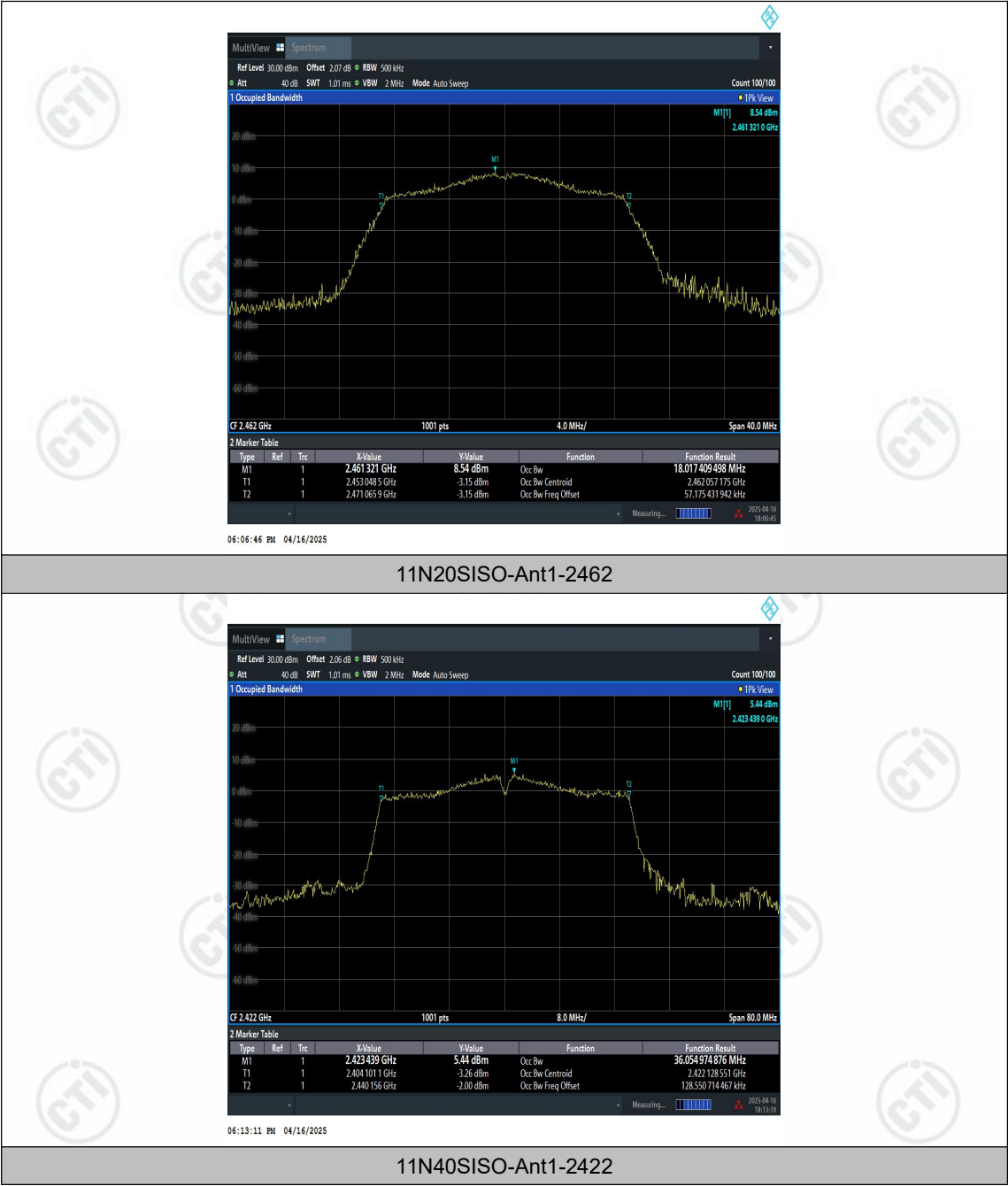
Test Graphs

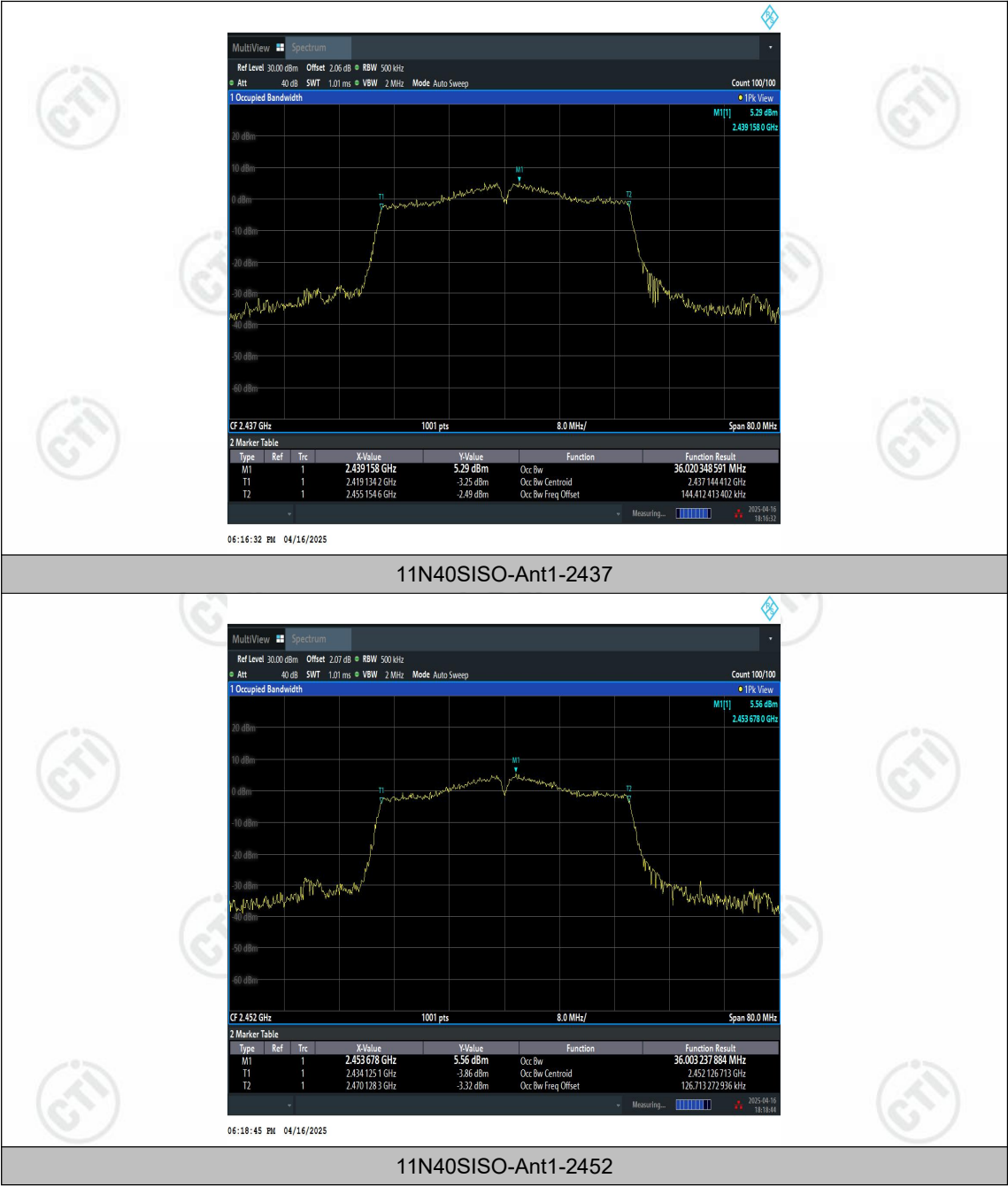












Appendix C: Maximum conducted output power

Test Result

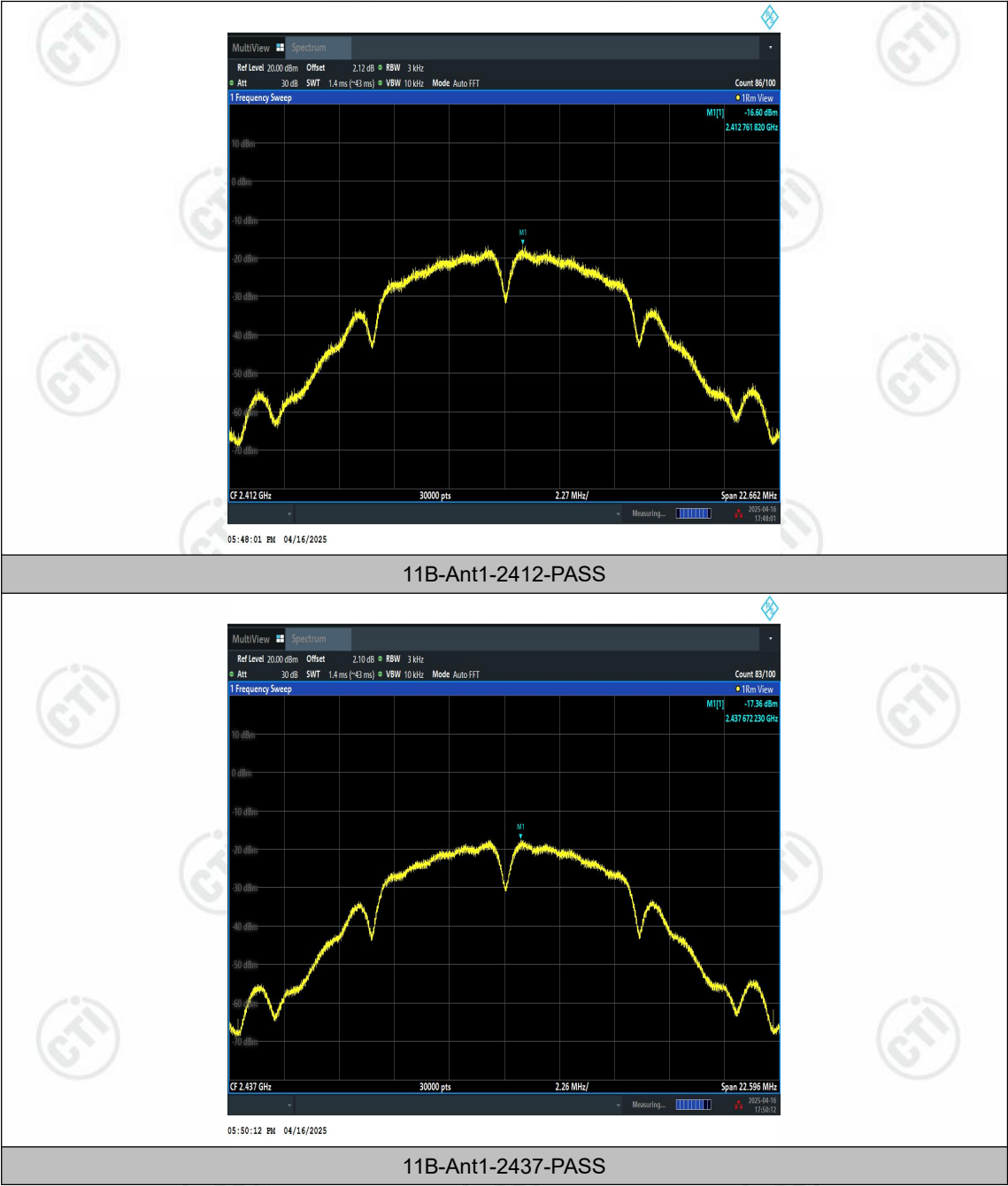
Test Mode	Antenna	Frequency [MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	13.29	≤30.00	PASS
11B	Ant1	2437	---	13.27	≤30.00	PASS
11B	Ant1	2462	---	13.16	≤30.00	PASS
11G	Ant1	2412	---	12.39	≤30.00	PASS
11G	Ant1	2437	---	12.53	≤30.00	PASS
11G	Ant1	2462	---	12.93	≤30.00	PASS
11N20SISO	Ant1	2412	---	12.99	≤30.00	PASS
11N20SISO	Ant1	2437	---	12.96	≤30.00	PASS
11N20SISO	Ant1	2462	---	12.95	≤30.00	PASS
11N40SISO	Ant1	2422	---	12.35	≤30.00	PASS
11N40SISO	Ant1	2437	---	12.42	≤30.00	PASS
11N40SISO	Ant1	2452	---	12.26	≤30.00	PASS

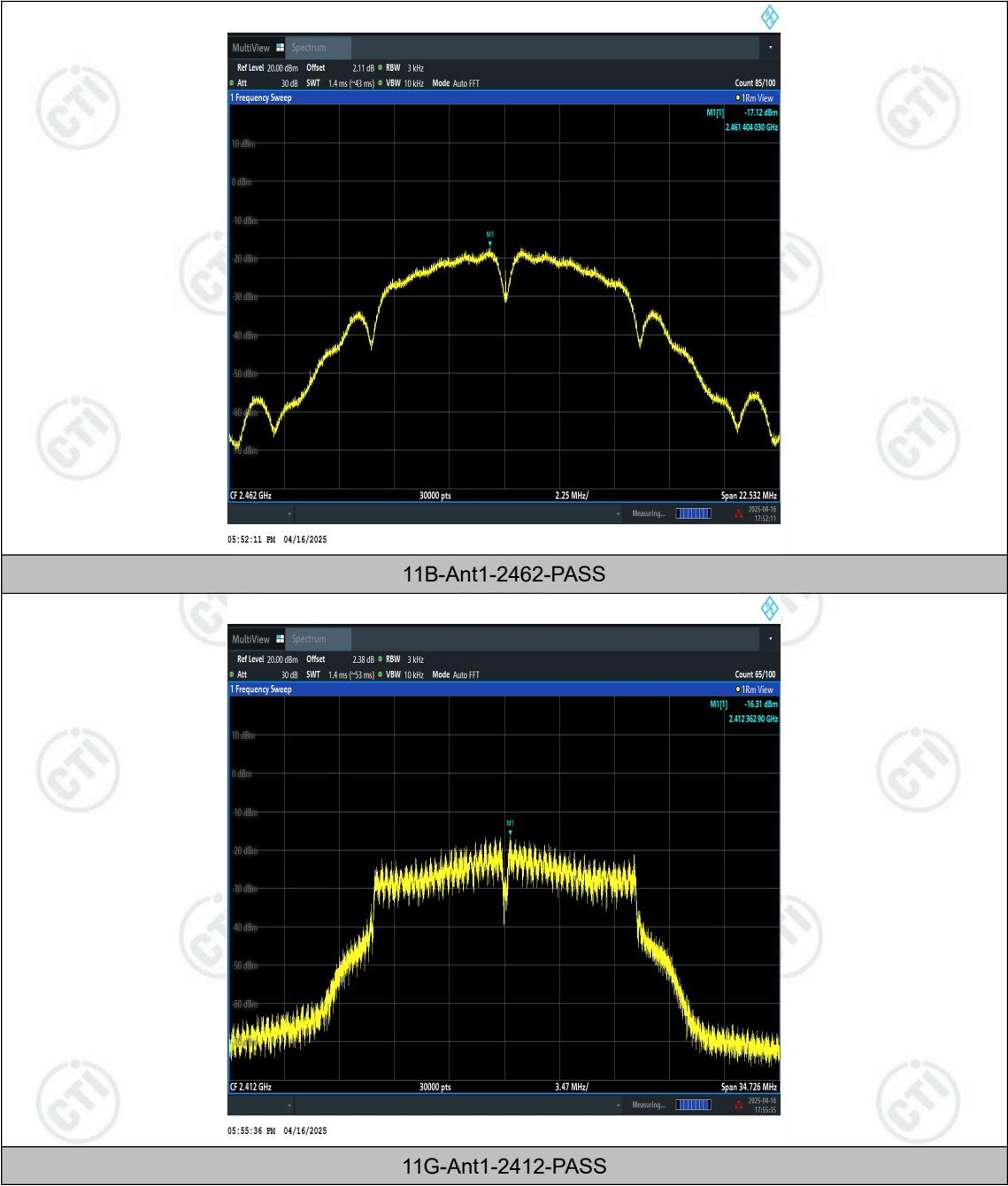
Appendix D: Maximum power spectral density

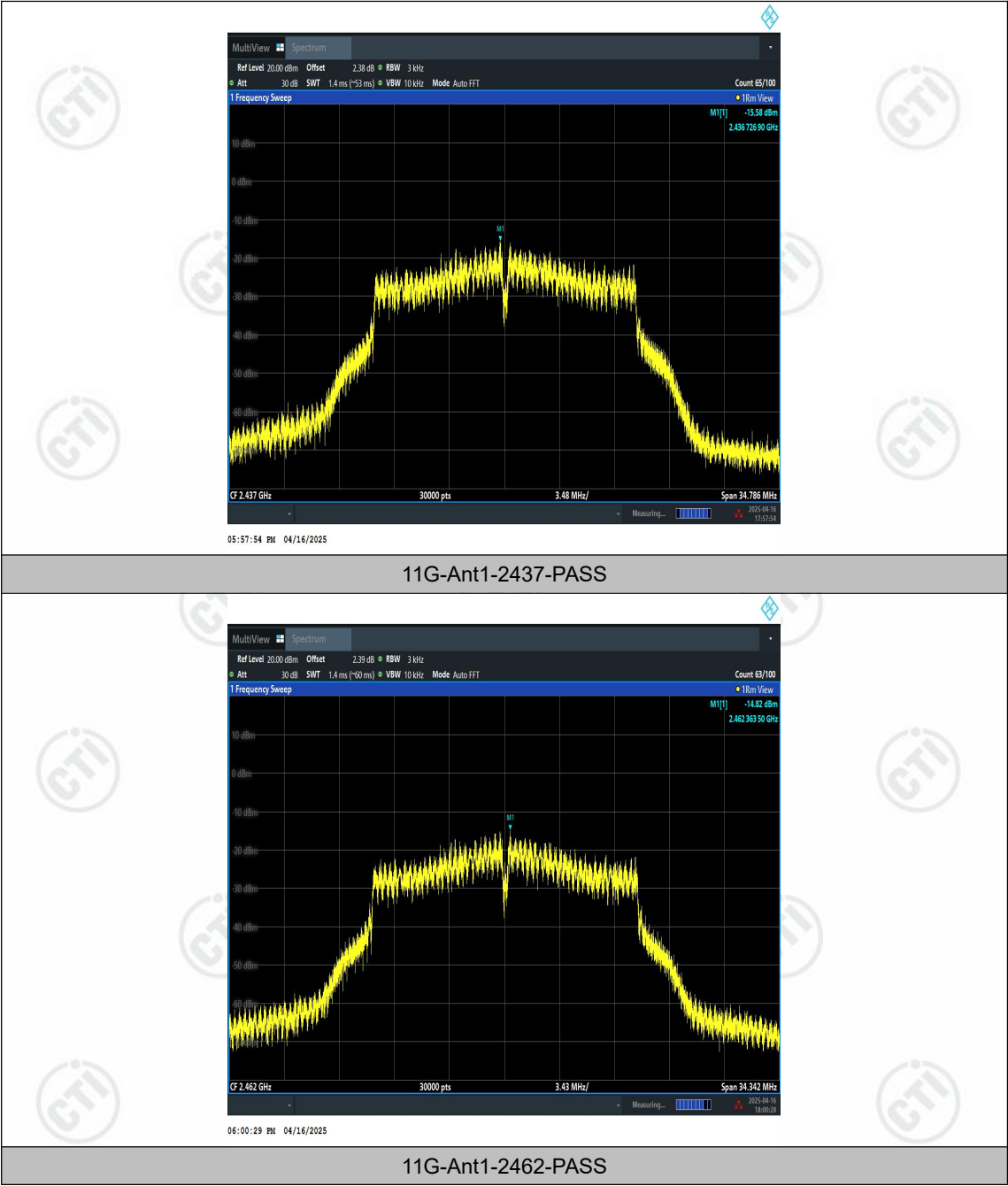
Test Result

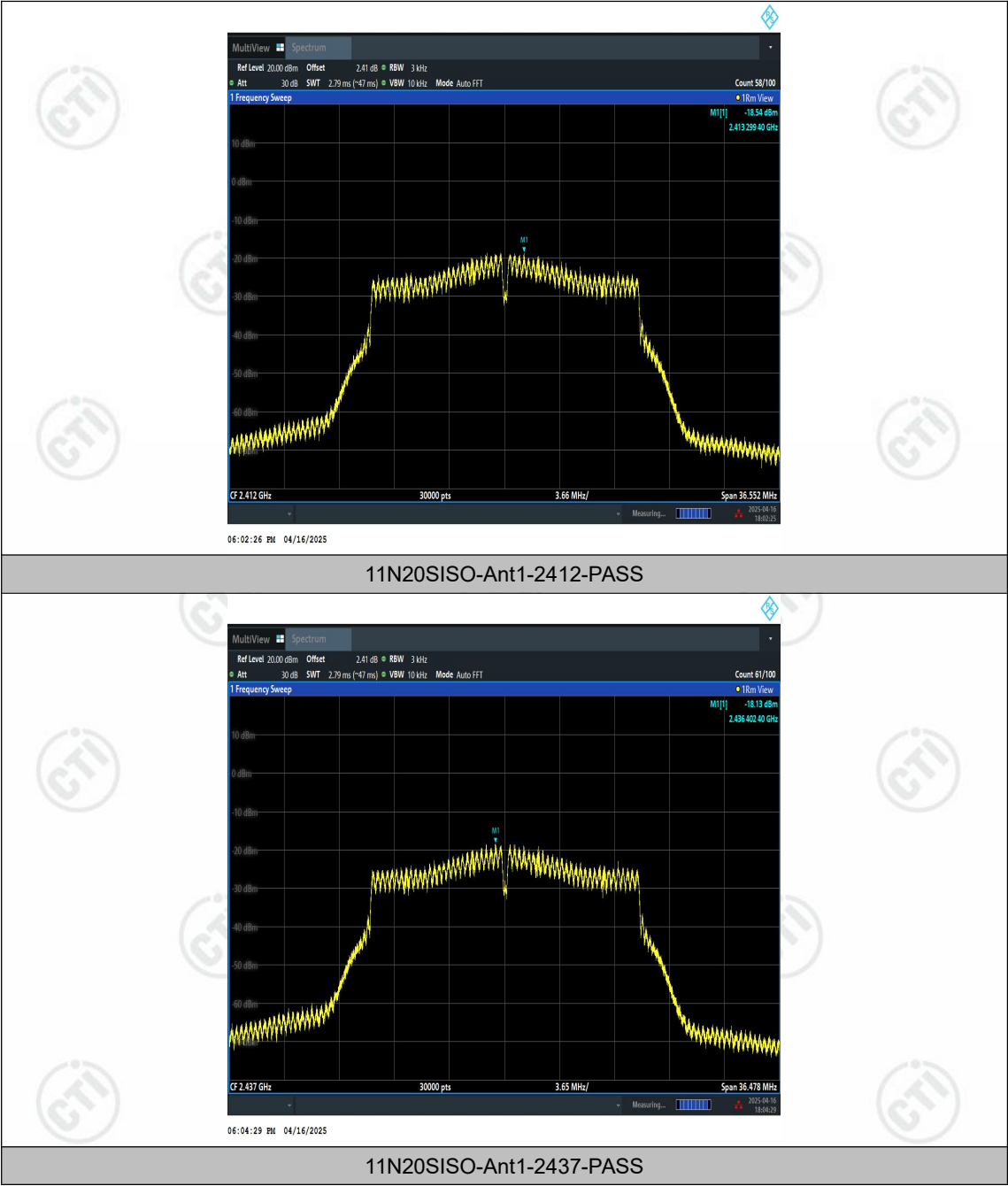
TestMode	Antenna	Frequency [MHz]	Result [dBm/3-100k Hz]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm/3-100 kHz]	Verdict
11B	Ant1	2412	-16.60	2.53	-14.07	≤8.00	PASS
11B	Ant1	2437	-17.36	2.53	-14.83	≤8.00	PASS
11B	Ant1	2462	-17.12	2.53	-14.59	≤8.00	PASS
11G	Ant1	2412	-16.31	2.53	-13.78	≤8.00	PASS
11G	Ant1	2437	-15.58	2.53	-13.05	≤8.00	PASS
11G	Ant1	2462	-14.82	2.53	-12.29	≤8.00	PASS
11N20SISO	Ant1	2412	-18.54	2.53	-16.01	≤8.00	PASS
11N20SISO	Ant1	2437	-18.13	2.53	-15.6	≤8.00	PASS
11N20SISO	Ant1	2462	-17.51	2.53	-14.98	≤8.00	PASS
11N40SISO	Ant1	2422	-21.41	2.53	-18.88	≤8.00	PASS
11N40SISO	Ant1	2437	-21.18	2.53	-18.65	≤8.00	PASS
11N40SISO	Ant1	2452	-21.38	2.53	-18.85	≤8.00	PASS

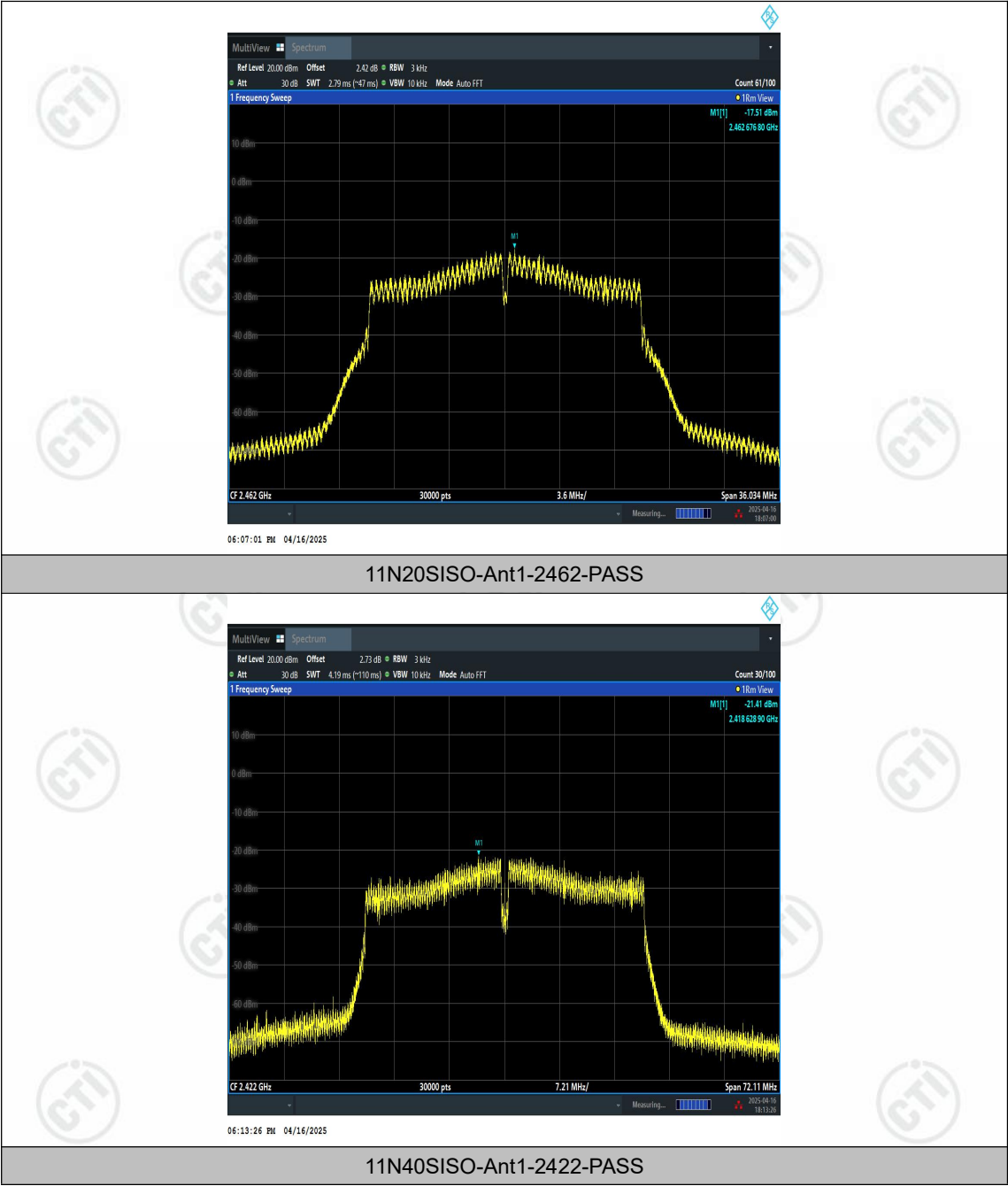
Test Graphs

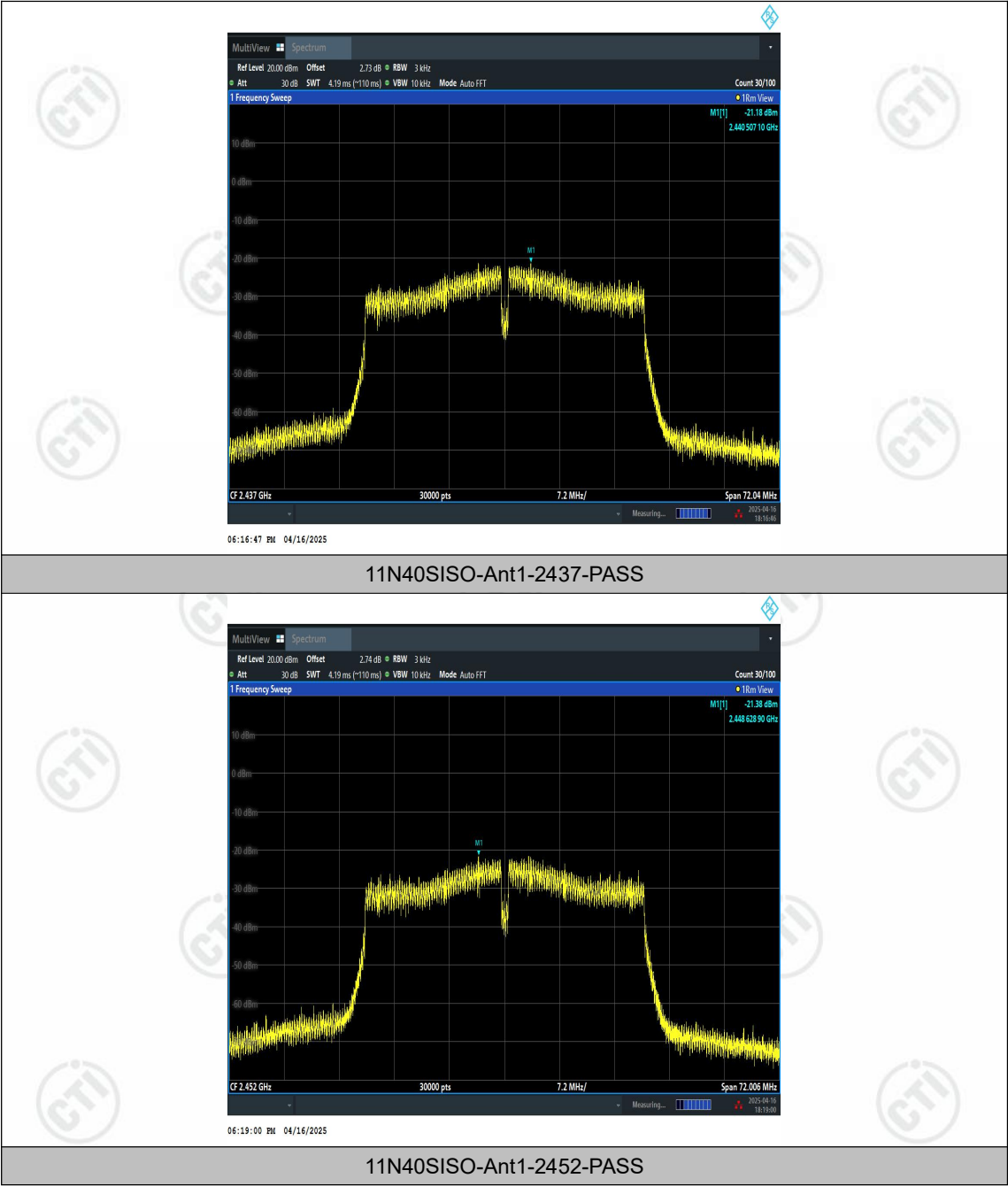












Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	5.21	-40.23	≤-24.79	PASS
11B	Ant1	High	2462	5.31	-53.99	≤-24.69	PASS
11G	Ant1	Low	2412	0.68	-36.45	≤-29.32	PASS
11G	Ant1	High	2462	1.91	-43.37	≤-28.09	PASS
11N20SISO	Ant1	Low	2412	1.77	-36.33	≤-28.23	PASS
11N20SISO	Ant1	High	2462	1.61	-44.54	≤-28.39	PASS
11N40SISO	Ant1	Low	2422	-1.55	-34.97	≤-31.55	PASS
11N40SISO	Ant1	High	2452	-1.59	-40.44	≤-31.59	PASS

Test Graphs

