

Appendix: 2.4G Wi-Fi

Contents

Appendix A: DTS Bandwidth 3

 Test Result 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth 9

 Test Result 9

 Test Graphs 10

Appendix C: Maximum conducted output power 15

 Test Result 15

Appendix D: Maximum power spectral density 16

 Test Result 16

 Test Graphs 17

Appendix E: Band edge measurements 22

 Test Result 22

 Test Graphs 23

Appendix F: Conducted Spurious Emission 26

 Test Result 26

 Test Graphs 27

Appendix G: Duty Cycle 41

 Test Result 41

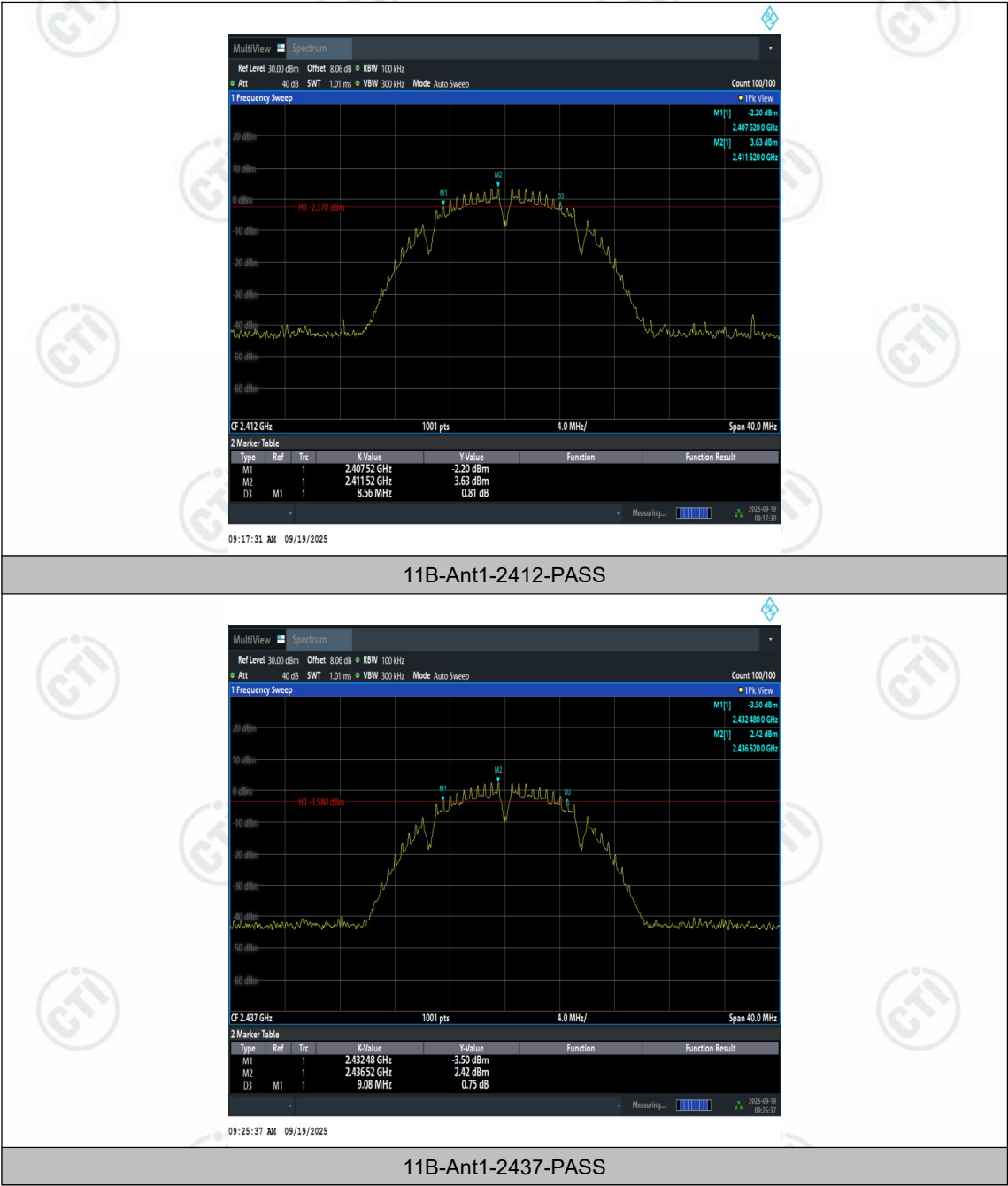
 Test Graphs 42

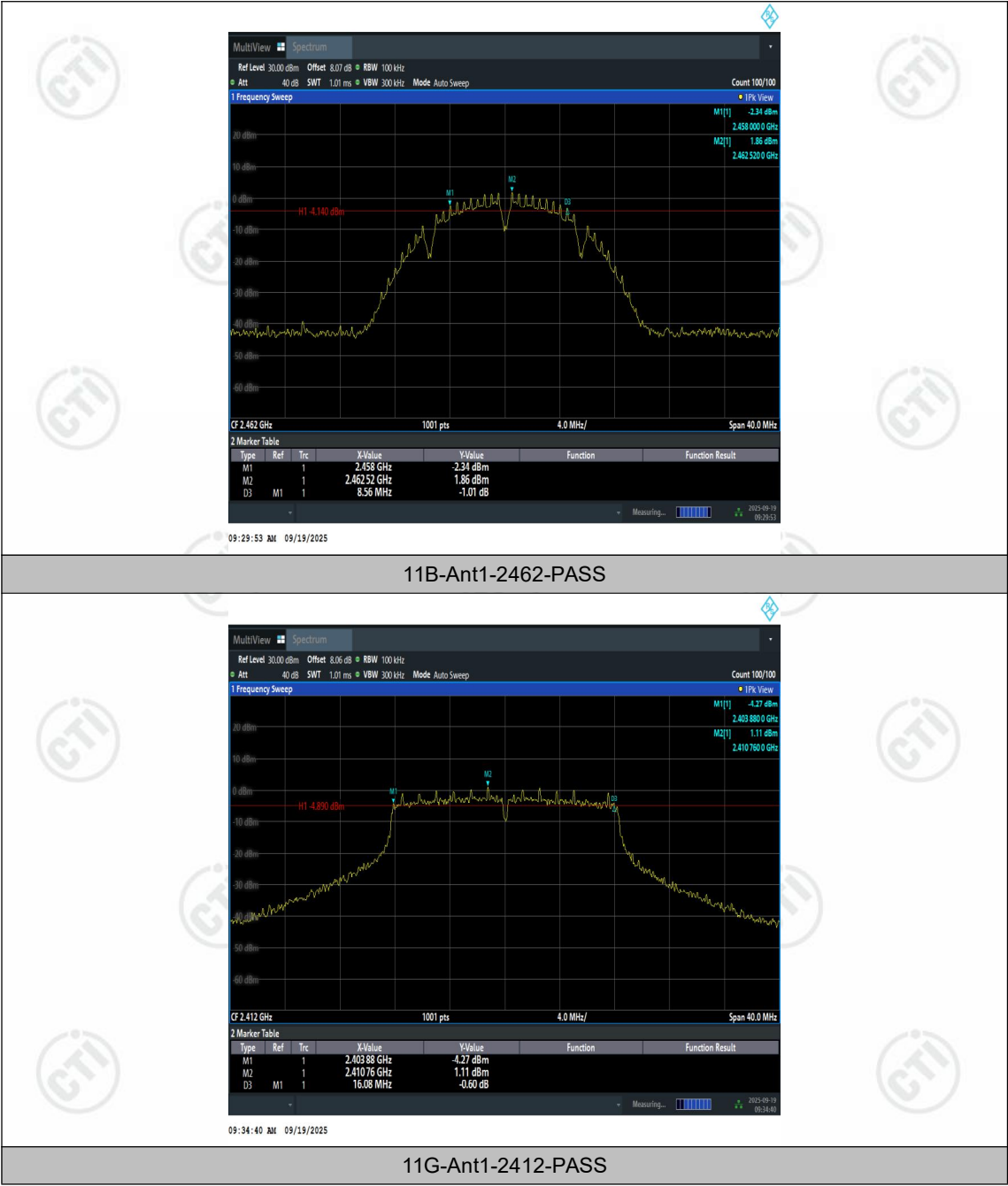
Appendix A: DTS Bandwidth

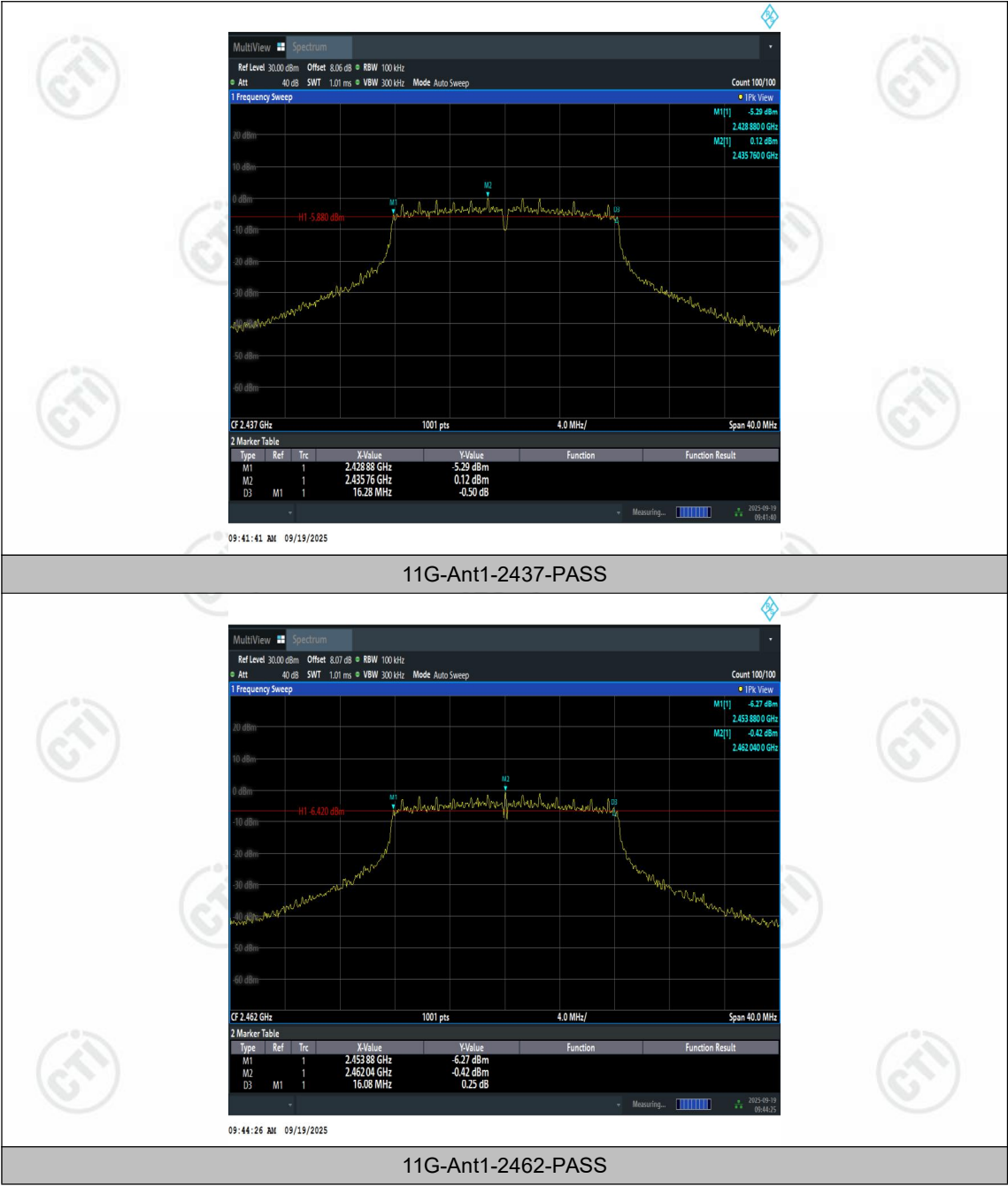
Test Result

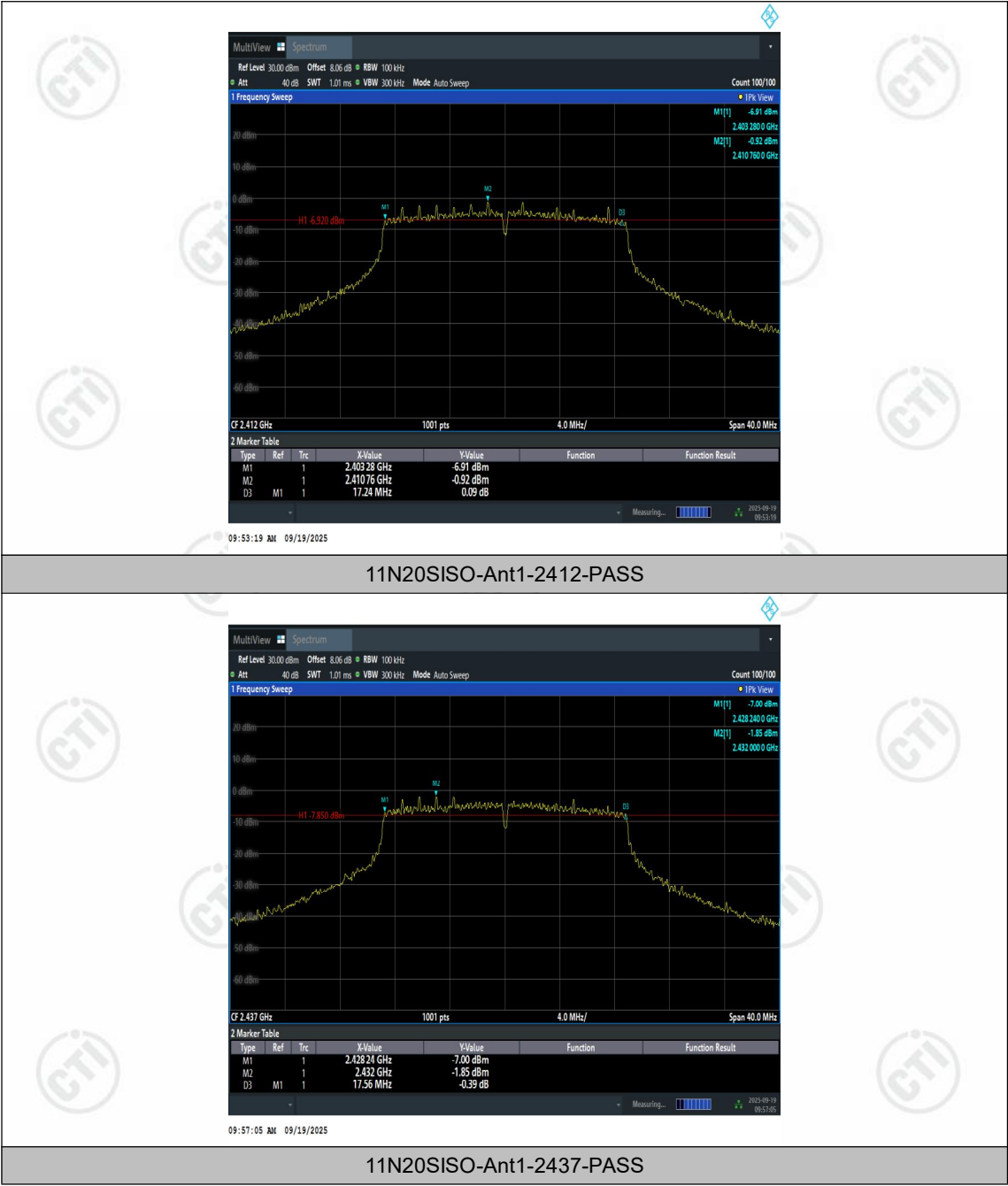
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.56	2407.52	2416.08	0.5	PASS
11B	Ant1	2437	9.08	2432.48	2441.56	0.5	PASS
11B	Ant1	2462	8.56	2458.00	2466.56	0.5	PASS
11G	Ant1	2412	16.08	2403.88	2419.96	0.5	PASS
11G	Ant1	2437	16.28	2428.88	2445.16	0.5	PASS
11G	Ant1	2462	16.08	2453.88	2469.96	0.5	PASS
11N20SISO	Ant1	2412	17.24	2403.28	2420.52	0.5	PASS
11N20SISO	Ant1	2437	17.56	2428.24	2445.80	0.5	PASS
11N20SISO	Ant1	2462	17.56	2453.24	2470.80	0.5	PASS

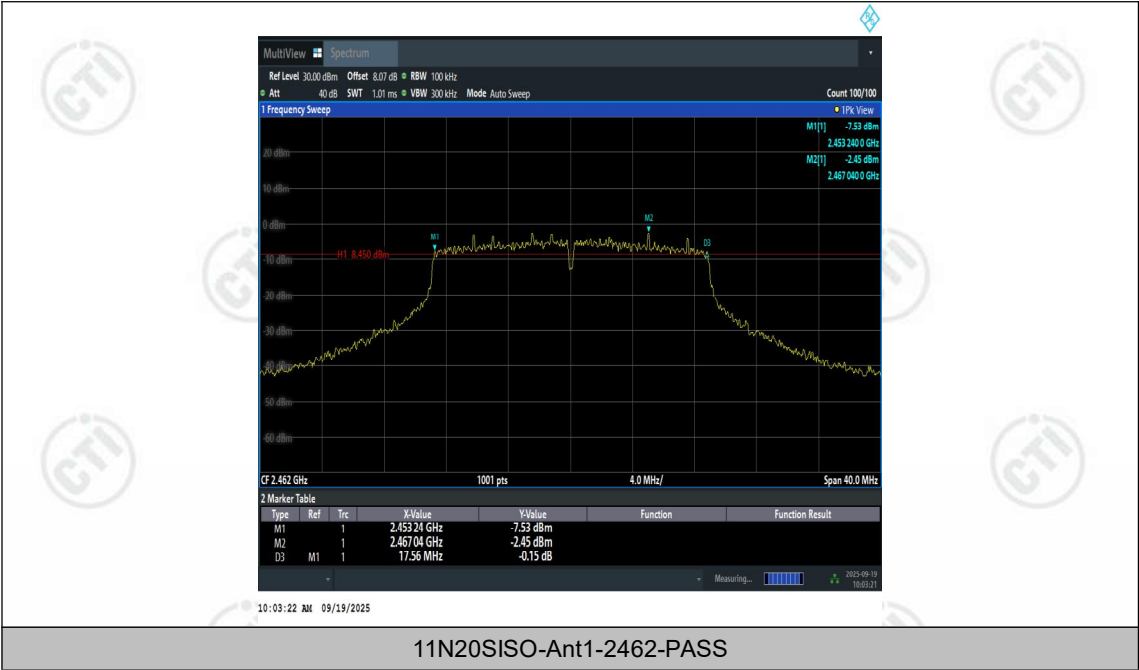
Test Graphs









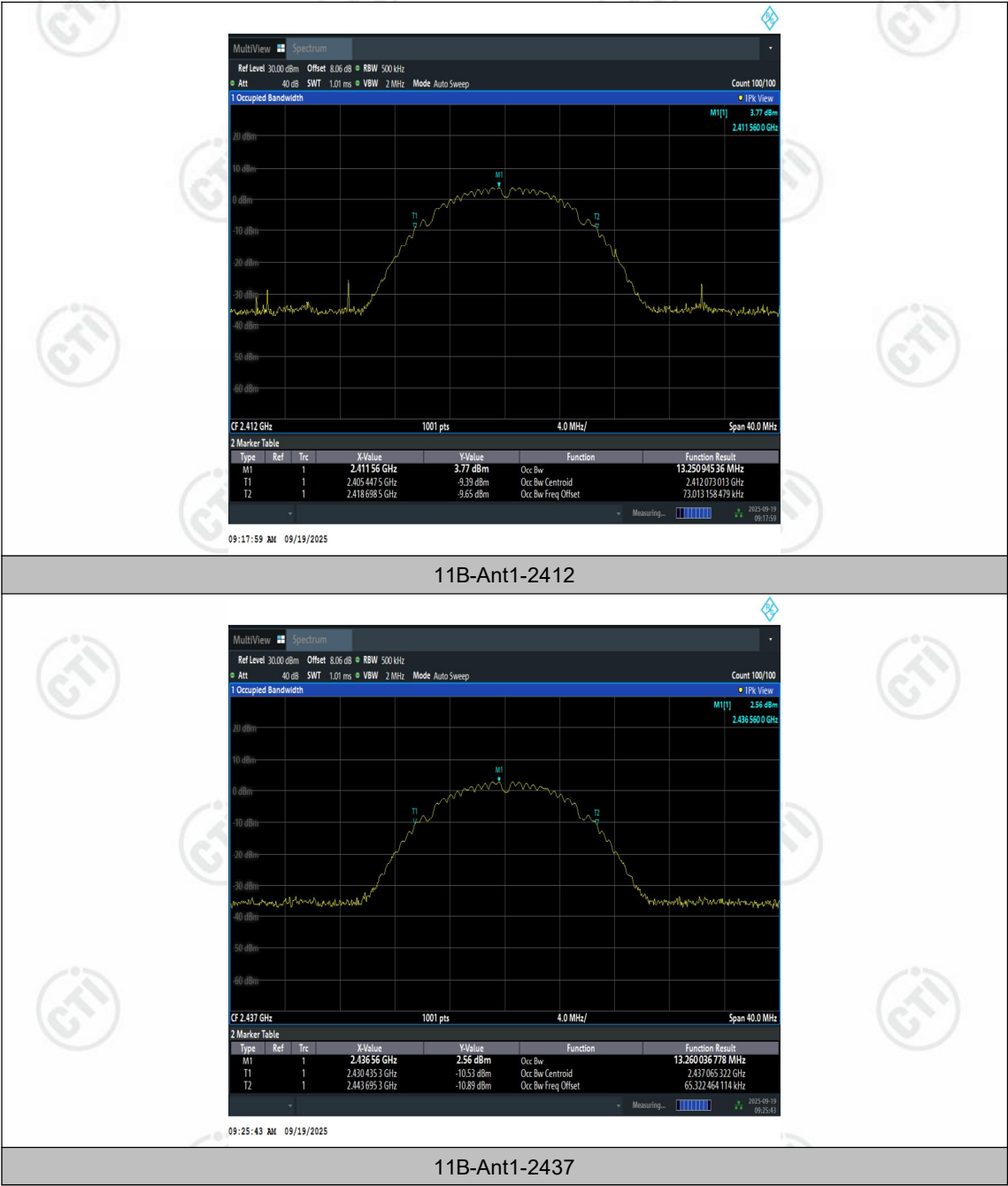


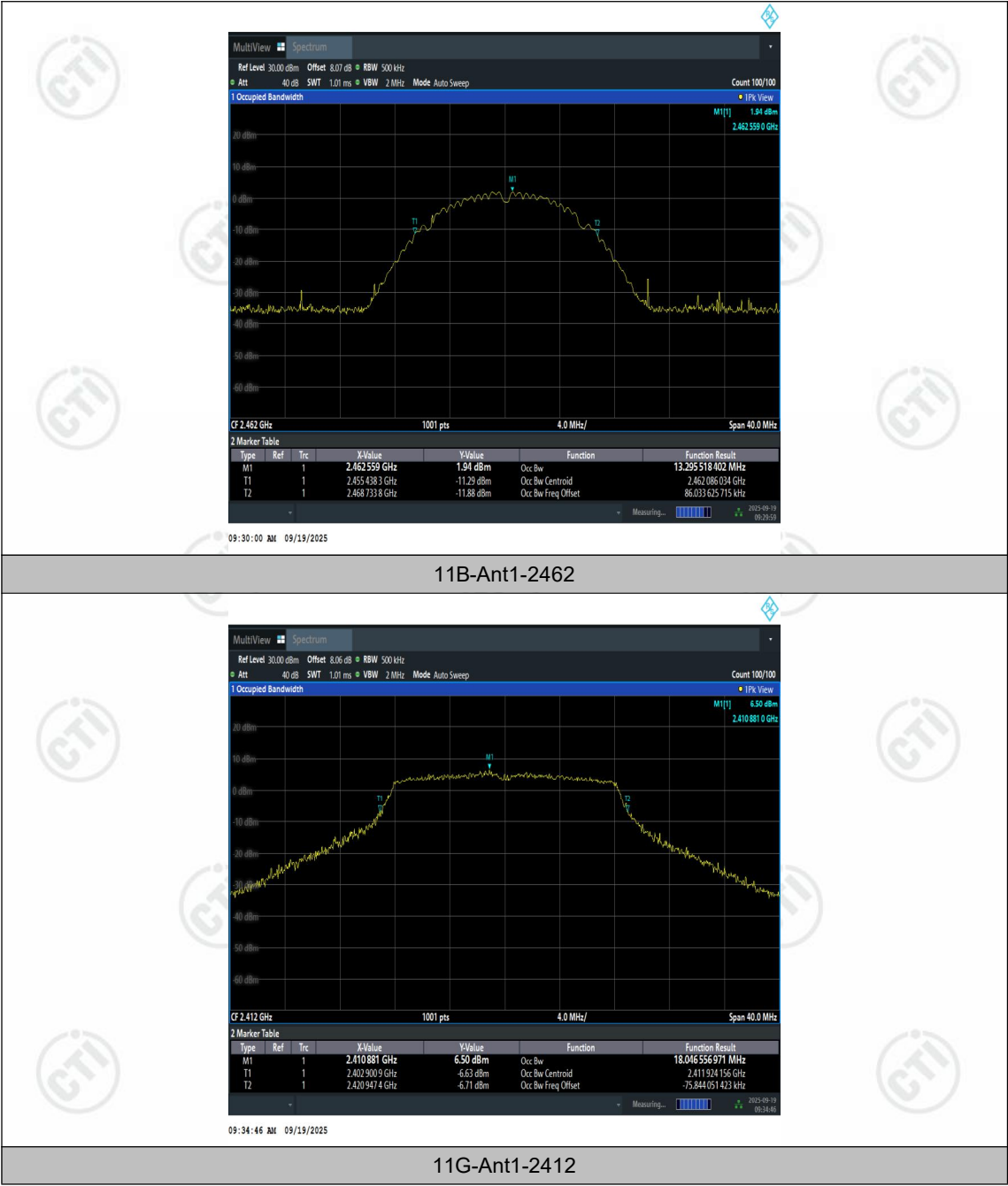
Appendix B: Occupied Channel Bandwidth

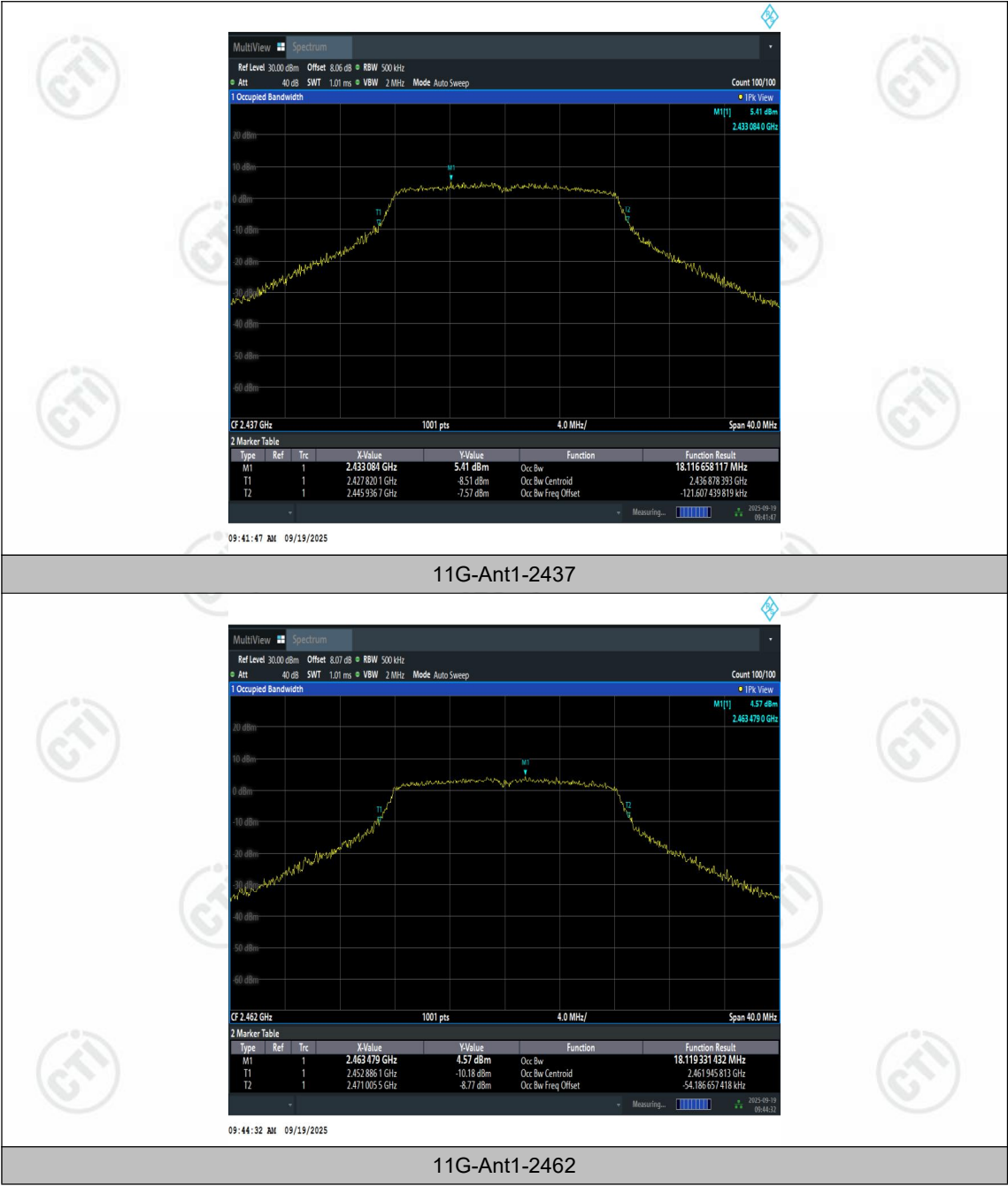
Test Result

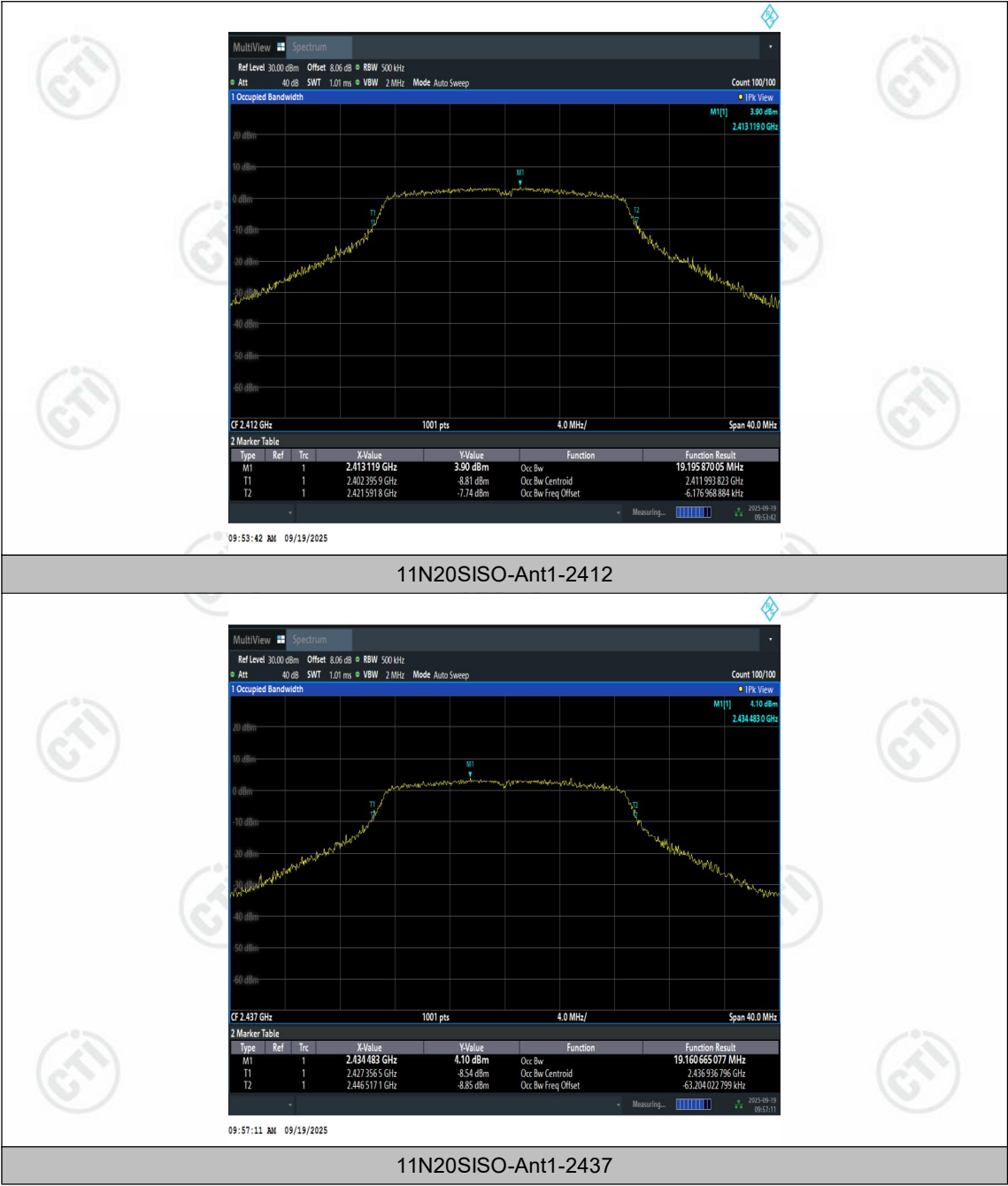
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.251	2405.4475	2418.6985	---	---
11B	Ant1	2437	13.260	2430.4353	2443.6953	---	---
11B	Ant1	2462	13.296	2455.4383	2468.7338	---	---
11G	Ant1	2412	18.047	2402.9009	2420.9474	---	---
11G	Ant1	2437	18.117	2427.8201	2445.9367	---	---
11G	Ant1	2462	18.119	2452.8861	2471.0055	---	---
11N20SISO	Ant1	2412	19.196	2402.3959	2421.5918	---	---
11N20SISO	Ant1	2437	19.161	2427.3565	2446.5171	---	---
11N20SISO	Ant1	2462	19.191	2452.4069	2471.5979	---	---

Test Graphs











Appendix C: Maximum conducted output power

Test Result

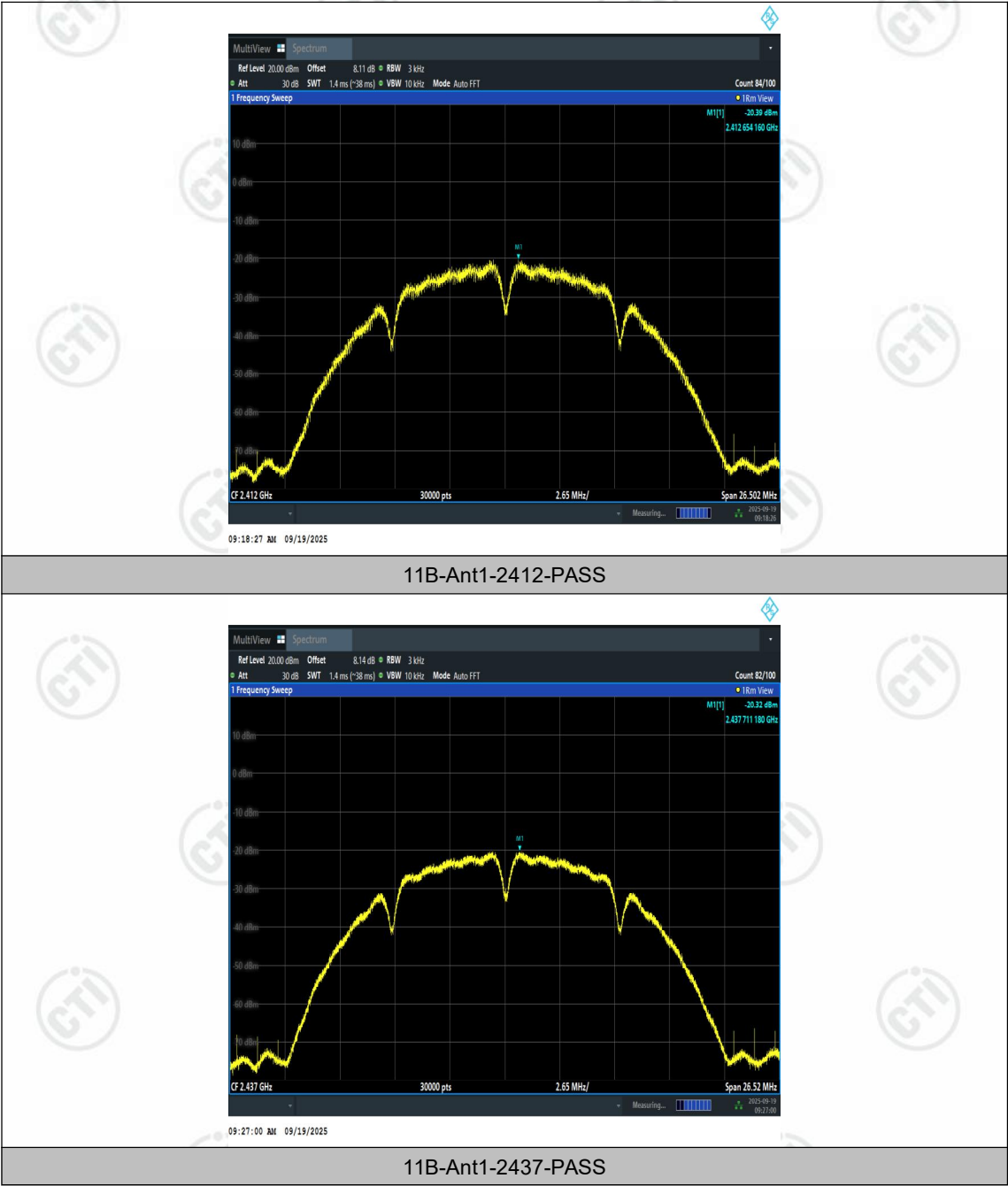
TestMode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	11.83	≤30.00	PASS
11B	Ant1	2437	---	12.07	≤30.00	PASS
11B	Ant1	2462	---	10.94	≤30.00	PASS
11G	Ant1	2412	---	12.23	≤30.00	PASS
11G	Ant1	2437	---	12.02	≤30.00	PASS
11G	Ant1	2462	---	10.97	≤30.00	PASS
11N20SISO	Ant1	2412	---	9.57	≤30.00	PASS
11N20SISO	Ant1	2437	---	10.52	≤30.00	PASS
11N20SISO	Ant1	2462	---	10.07	≤30.00	PASS

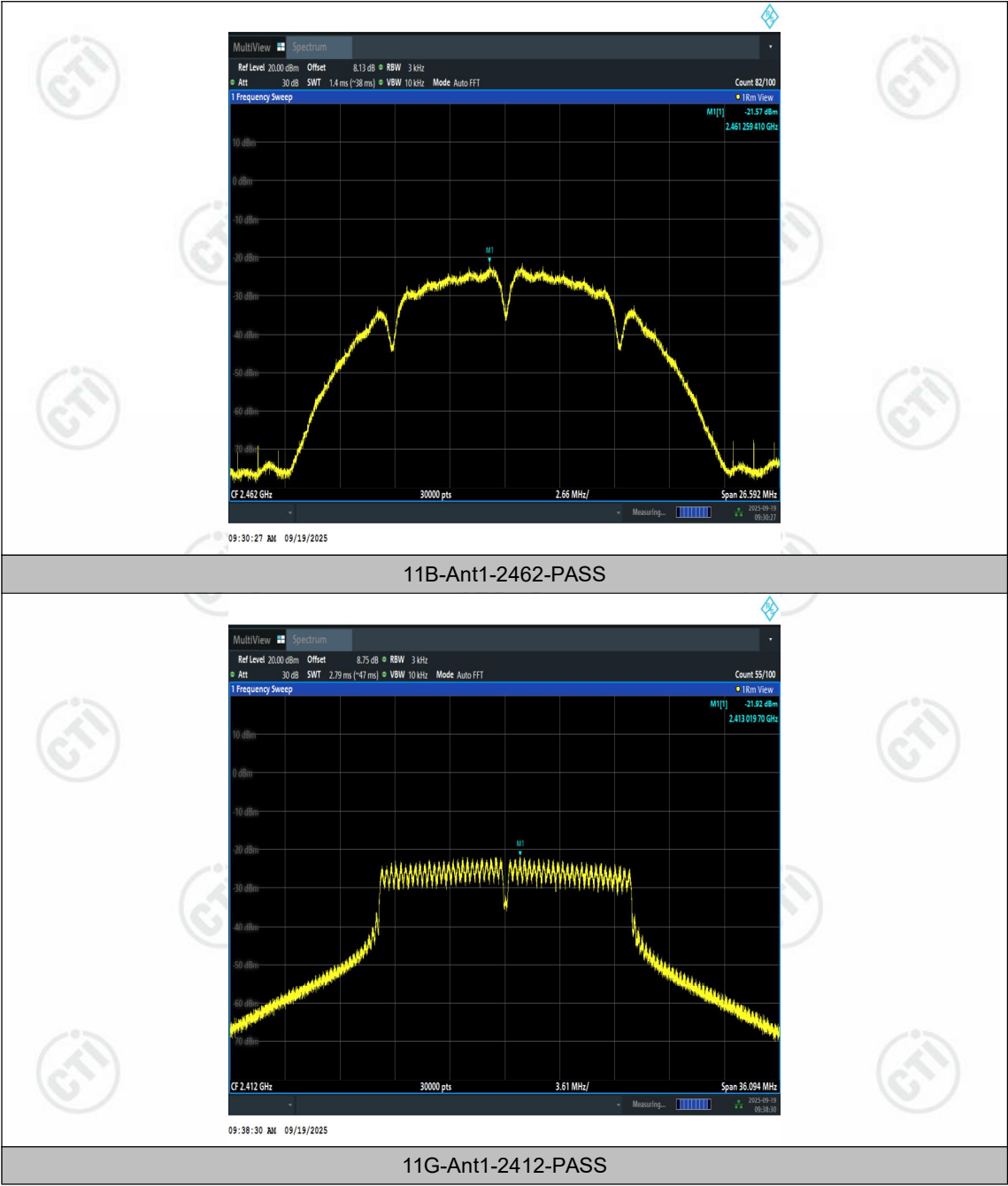
Appendix D: Maximum power spectral density

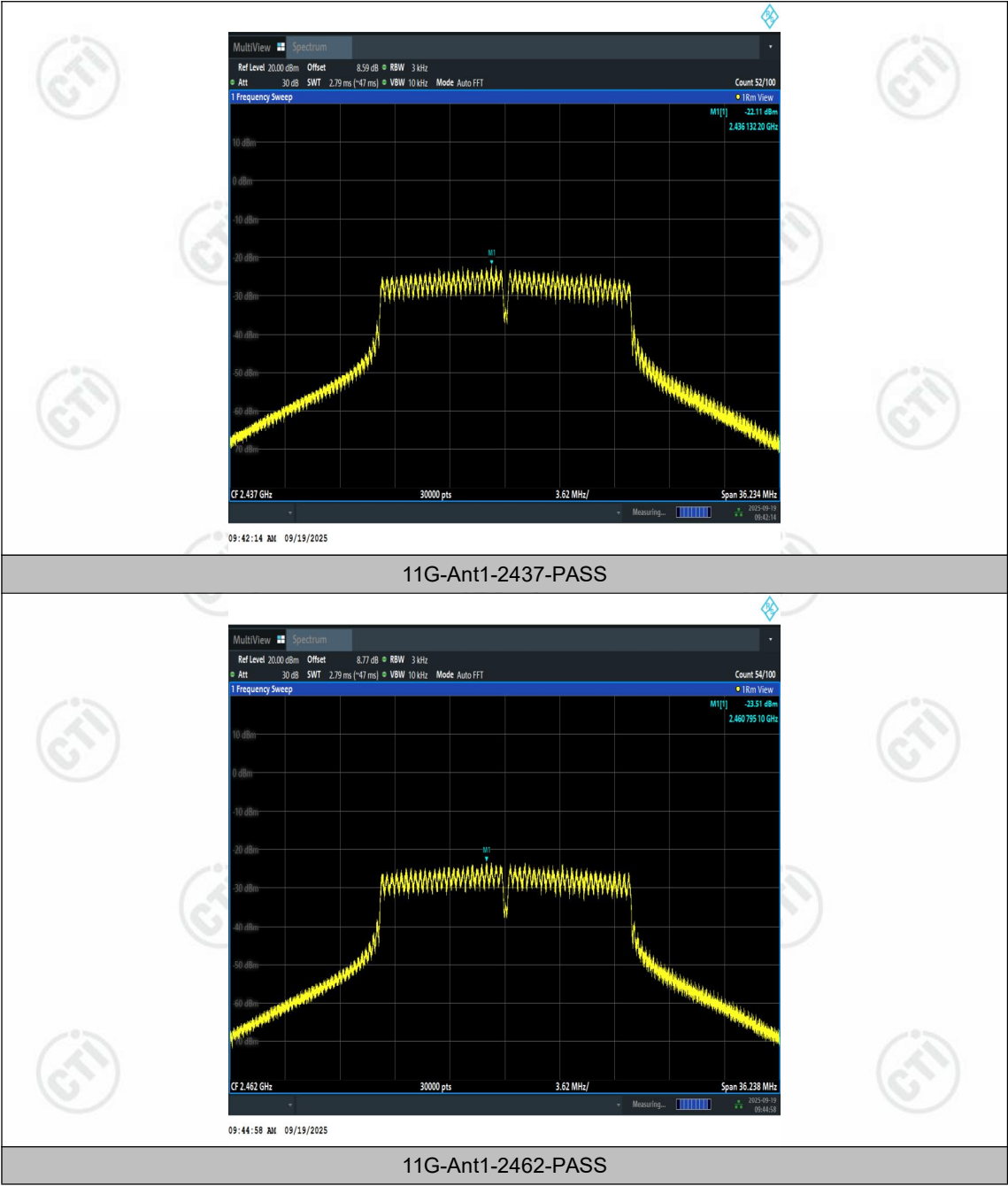
Test Result

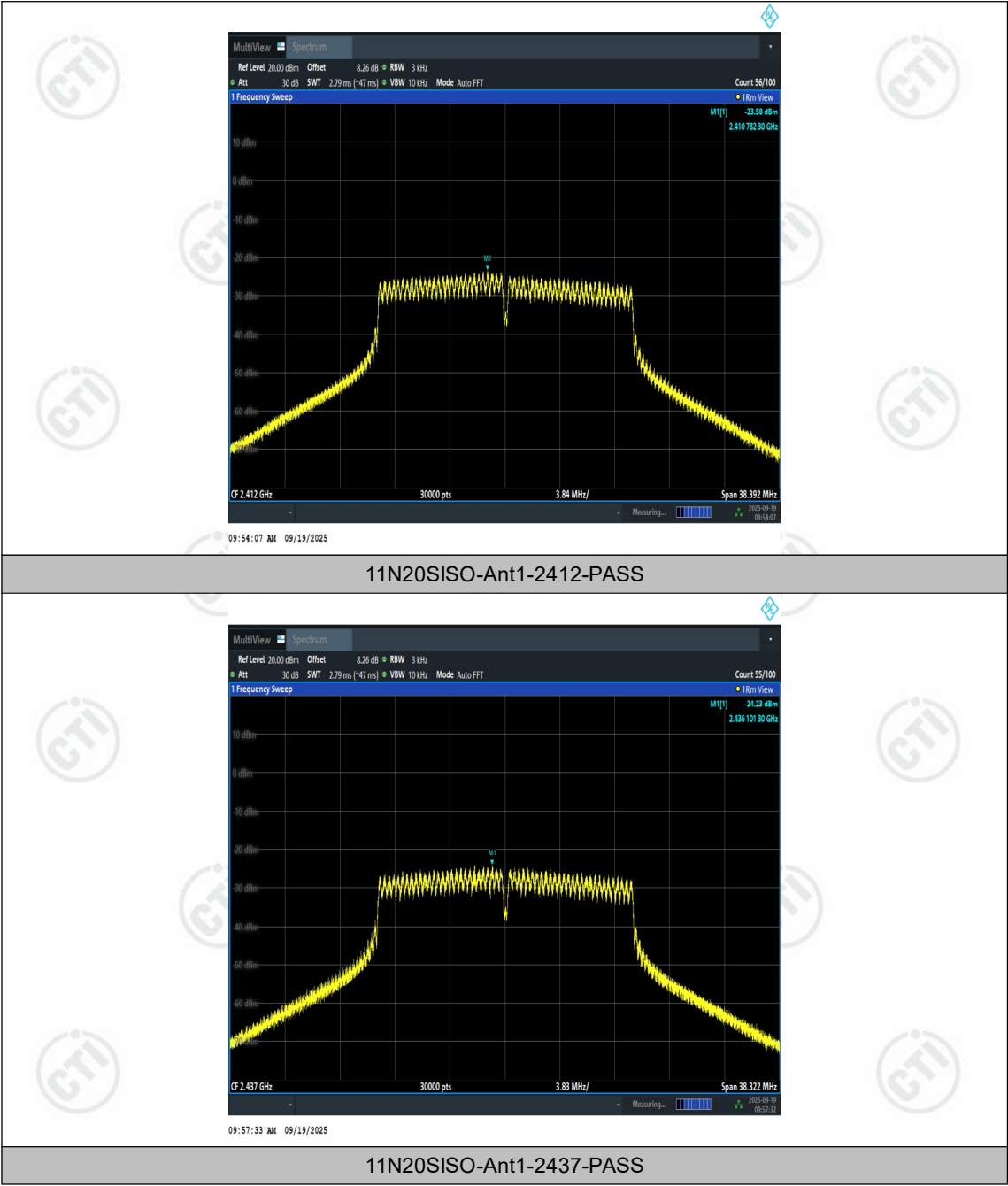
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-20.39	≤8.00	PASS
11B	Ant1	2437	-20.32	≤8.00	PASS
11B	Ant1	2462	-21.57	≤8.00	PASS
11G	Ant1	2412	-21.92	≤8.00	PASS
11G	Ant1	2437	-22.11	≤8.00	PASS
11G	Ant1	2462	-23.51	≤8.00	PASS
11N20SISO	Ant1	2412	-23.58	≤8.00	PASS
11N20SISO	Ant1	2437	-24.23	≤8.00	PASS
11N20SISO	Ant1	2462	-24.63	≤8.00	PASS

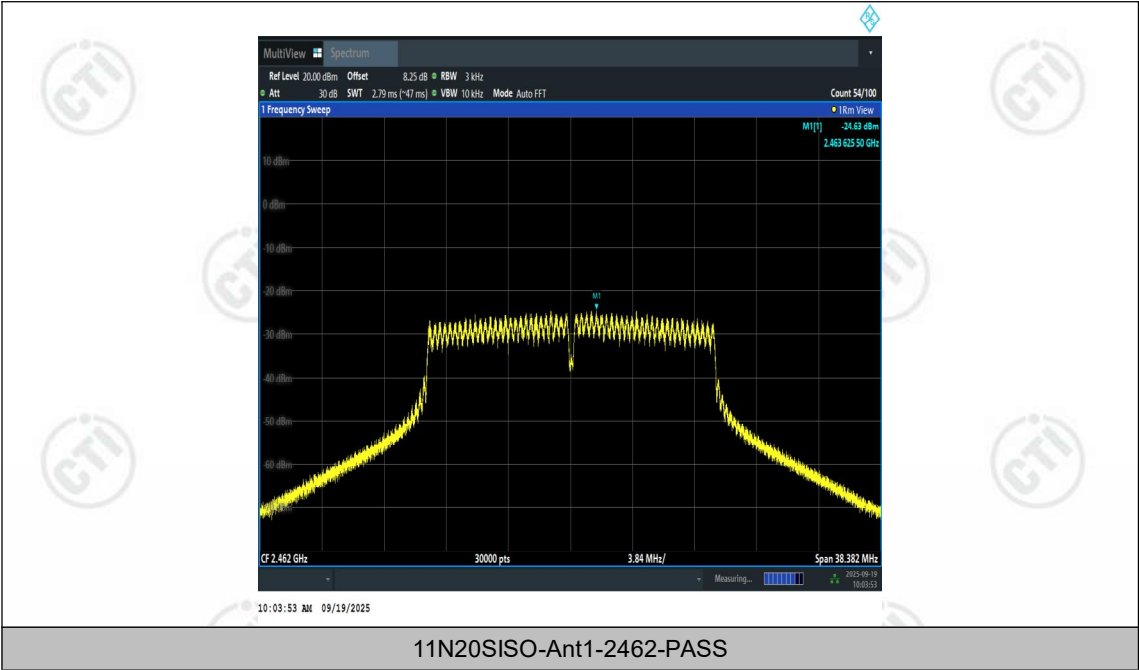
Test Graphs









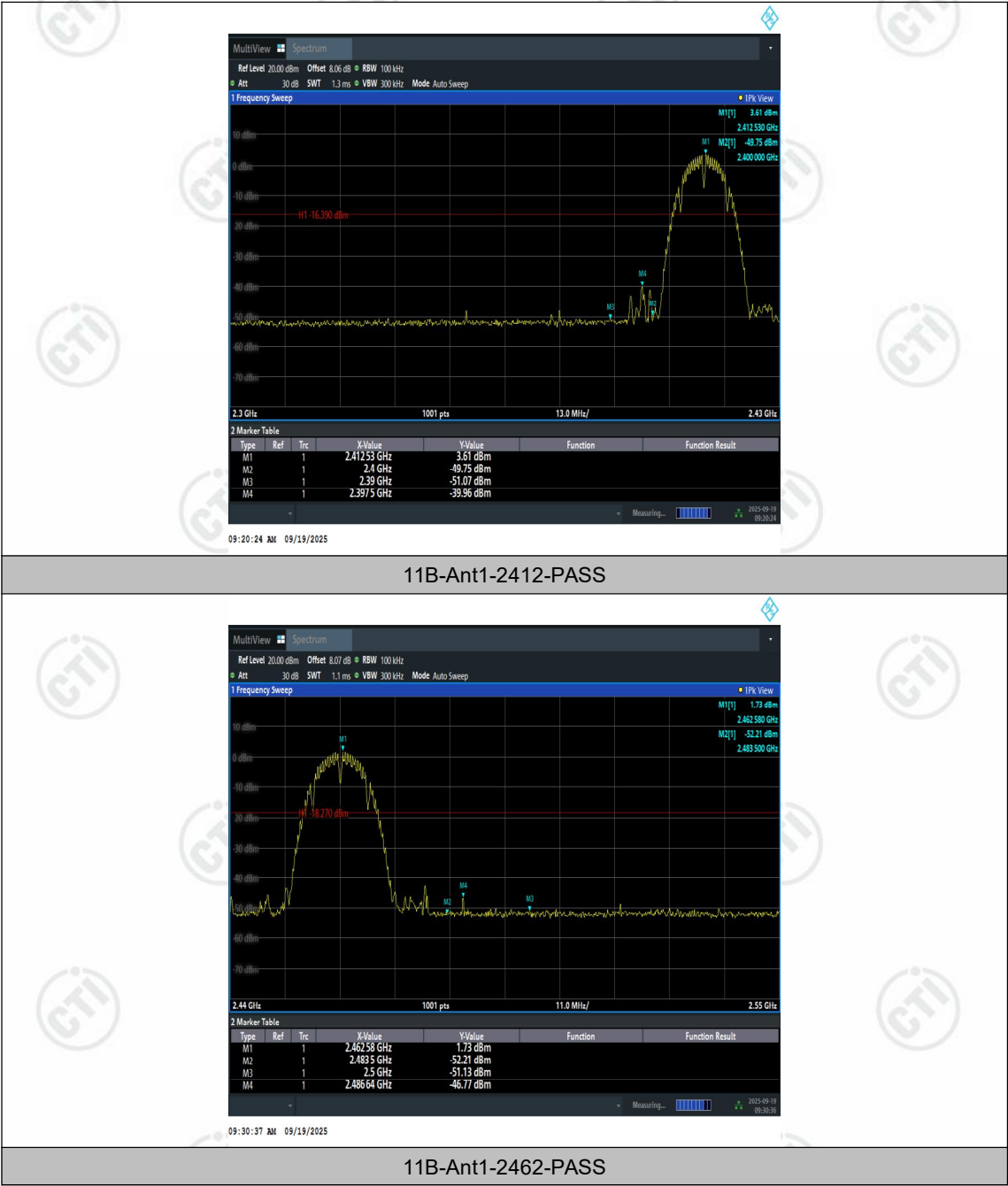


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
11B	Ant1	Low	2412	3.61	-39.96	≤-16.39	PASS
11B	Ant1	High	2462	1.73	-46.77	≤-18.27	PASS
11G	Ant1	Low	2412	1.00	-28.77	≤-19	PASS
11G	Ant1	High	2462	-0.59	-45.66	≤-20.59	PASS
11N20SISO	Ant1	Low	2412	-1.25	-29.18	≤-21.25	PASS
11N20SISO	Ant1	High	2462	-1.79	-47.88	≤-21.79	PASS

Test Graphs







Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.54	3.54	---	PASS
11B	Ant1	2412	30~1000	3.54	-57.3	≤-26.46	PASS
11B	Ant1	2412	1000~26500	3.54	-40.73	≤-26.46	PASS
11B	Ant1	2437	0~Reference	3.41	3.41	---	PASS
11B	Ant1	2437	30~1000	3.41	-57.81	≤-26.59	PASS
11B	Ant1	2437	1000~26500	3.41	-41.73	≤-26.59	PASS
11B	Ant1	2462	0~Reference	1.82	1.82	---	PASS
11B	Ant1	2462	30~1000	1.82	-58.57	≤-28.18	PASS
11B	Ant1	2462	1000~26500	1.82	-44.36	≤-28.18	PASS
11G	Ant1	2412	0~Reference	1.07	1.07	---	PASS
11G	Ant1	2412	30~1000	1.07	-59.48	≤-28.93	PASS
11G	Ant1	2412	1000~26500	1.07	-45.42	≤-28.93	PASS
11G	Ant1	2437	0~Reference	0.06	0.06	---	PASS
11G	Ant1	2437	30~1000	0.06	-59.45	≤-29.94	PASS
11G	Ant1	2437	1000~26500	0.06	-45.86	≤-29.94	PASS
11G	Ant1	2462	0~Reference	0.29	0.29	---	PASS
11G	Ant1	2462	30~1000	0.29	-58.5	≤-29.71	PASS
11G	Ant1	2462	1000~26500	0.29	-45.6	≤-29.71	PASS
11N20SISO	Ant1	2412	0~Reference	-0.91	-0.91	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.91	-58.9	≤-30.91	PASS
11N20SISO	Ant1	2412	1000~26500	-0.91	-49.05	≤-30.91	PASS
11N20SISO	Ant1	2437	0~Reference	-0.95	-0.95	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.95	-58.57	≤-30.95	PASS
11N20SISO	Ant1	2437	1000~26500	-0.95	-48.37	≤-30.95	PASS
11N20SISO	Ant1	2462	0~Reference	-1.56	-1.56	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.56	-59.27	≤-31.56	PASS
11N20SISO	Ant1	2462	1000~26500	-1.56	-48.44	≤-31.56	PASS

Test Graphs

