

Appendix: Bluetooth LE

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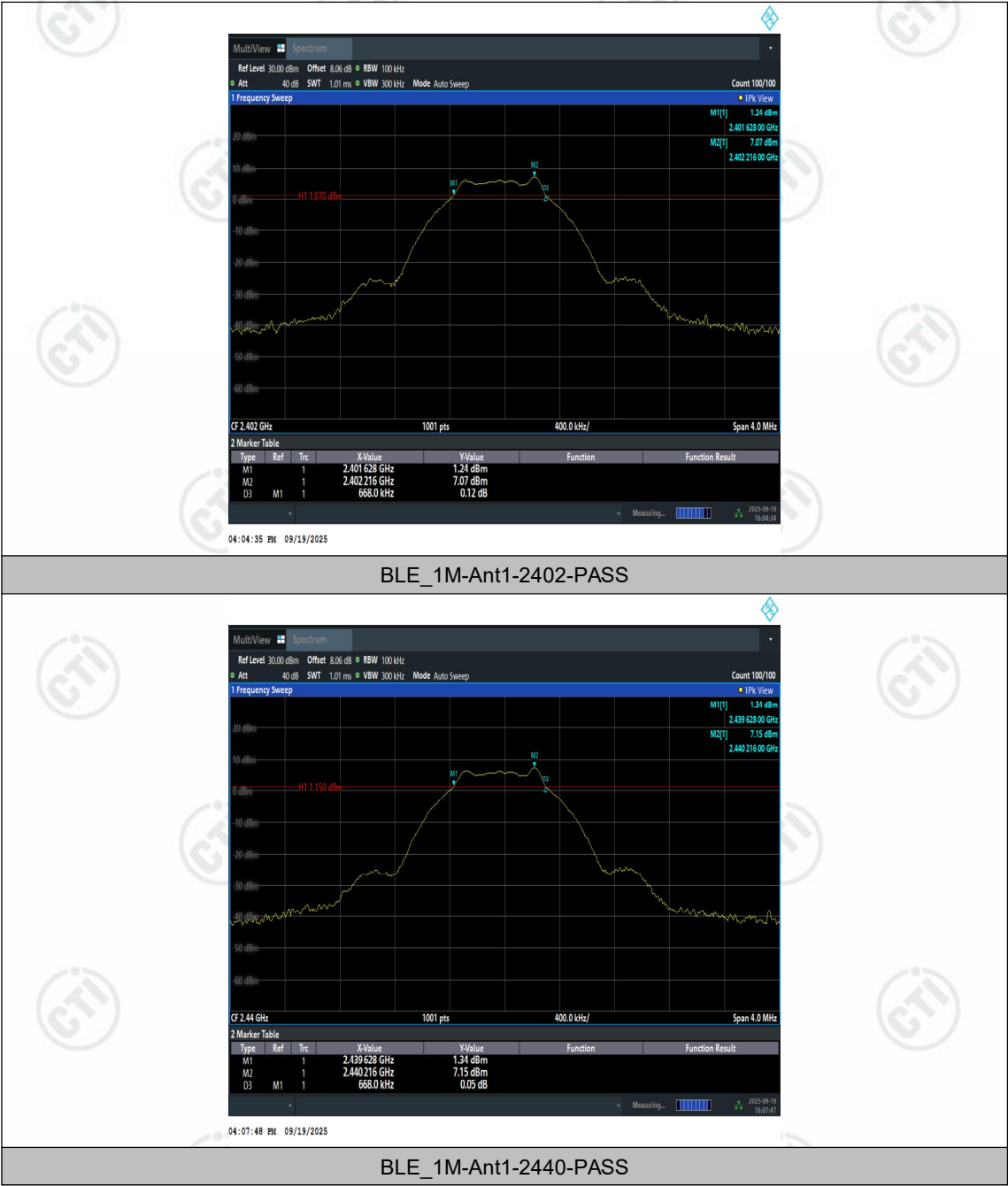
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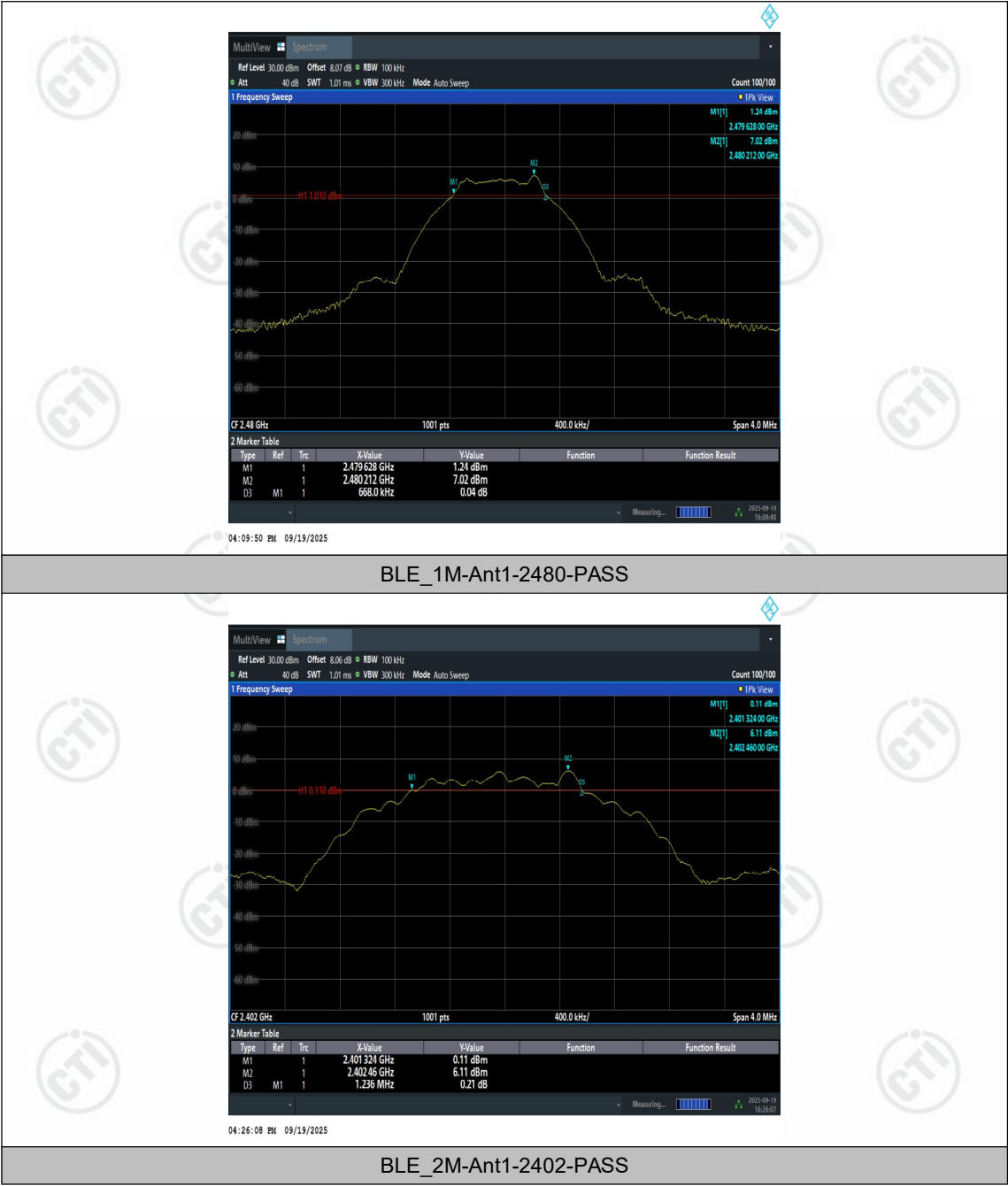
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.63	2402.30	0.5	PASS
BLE_1M	Ant1	2440	0.67	2439.63	2440.30	0.5	PASS
BLE_1M	Ant1	2480	0.67	2479.63	2480.30	0.5	PASS
BLE_2M	Ant1	2402	1.24	2401.32	2402.56	0.5	PASS
BLE_2M	Ant1	2440	1.24	2439.32	2440.56	0.5	PASS
BLE_2M	Ant1	2480	1.24	2479.32	2480.56	0.5	PASS

Test Graphs







Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0193	2401.4594	2402.4787	---	---
BLE_1M	Ant1	2440	1.0166	2439.4584	2440.4750	---	---
BLE_1M	Ant1	2480	1.0208	2479.4574	2480.4782	---	---
BLE_2M	Ant1	2402	2.0417	2400.9622	2403.0039	---	---
BLE_2M	Ant1	2440	2.0554	2438.9527	2441.0081	---	---
BLE_2M	Ant1	2480	2.0459	2478.9588	2481.0047	---	---

Test Graphs





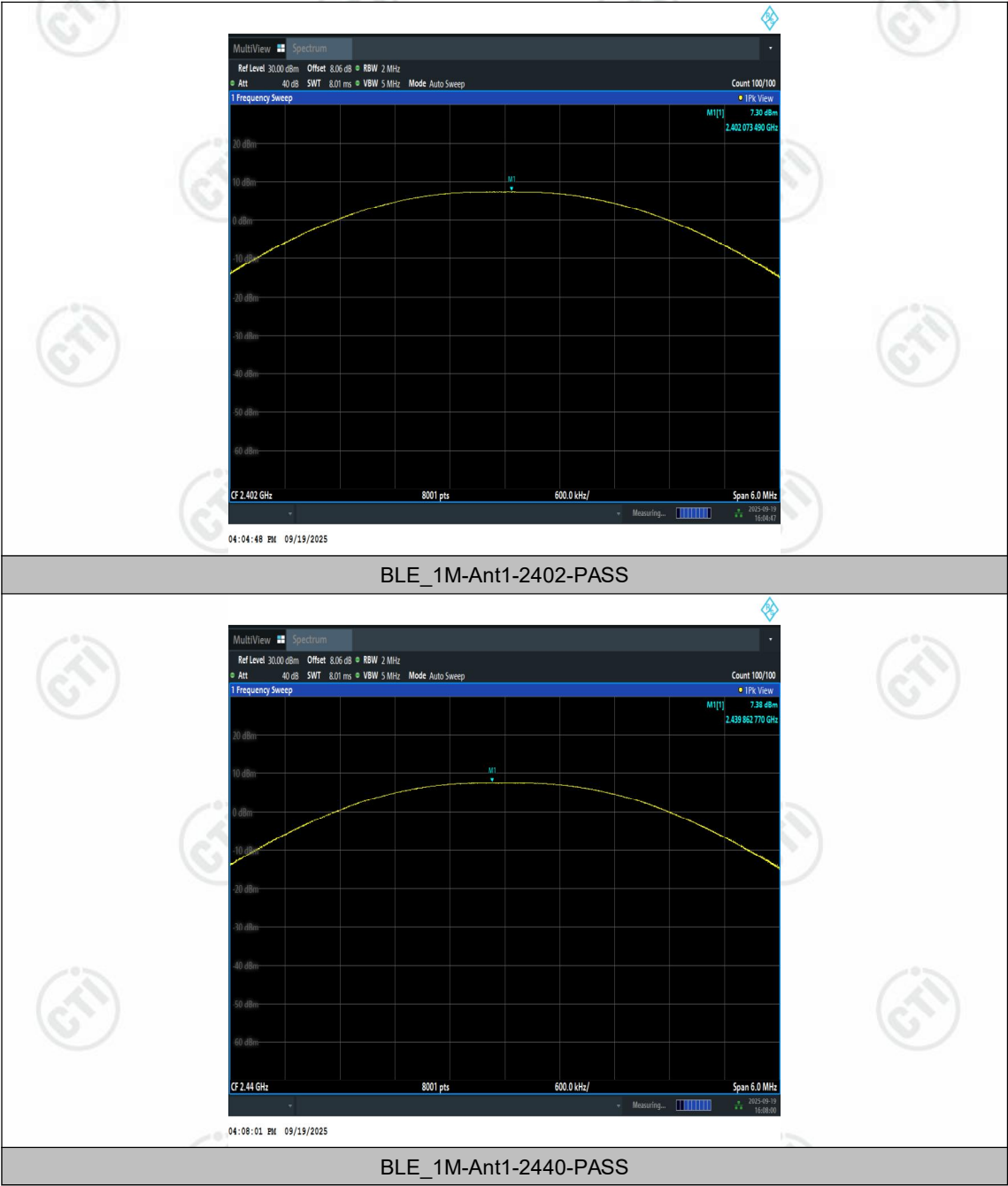


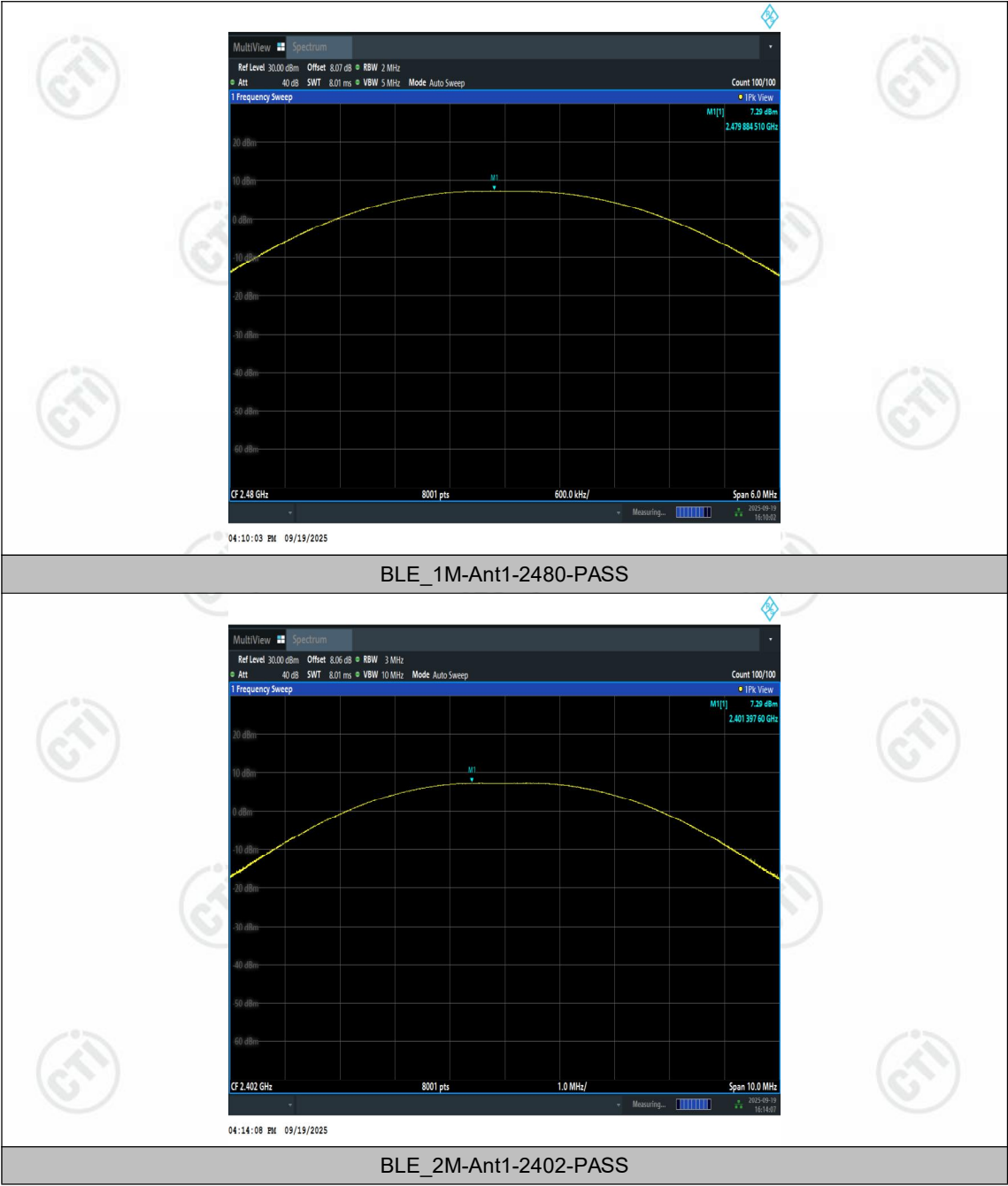
Appendix C: Maximum conducted output power

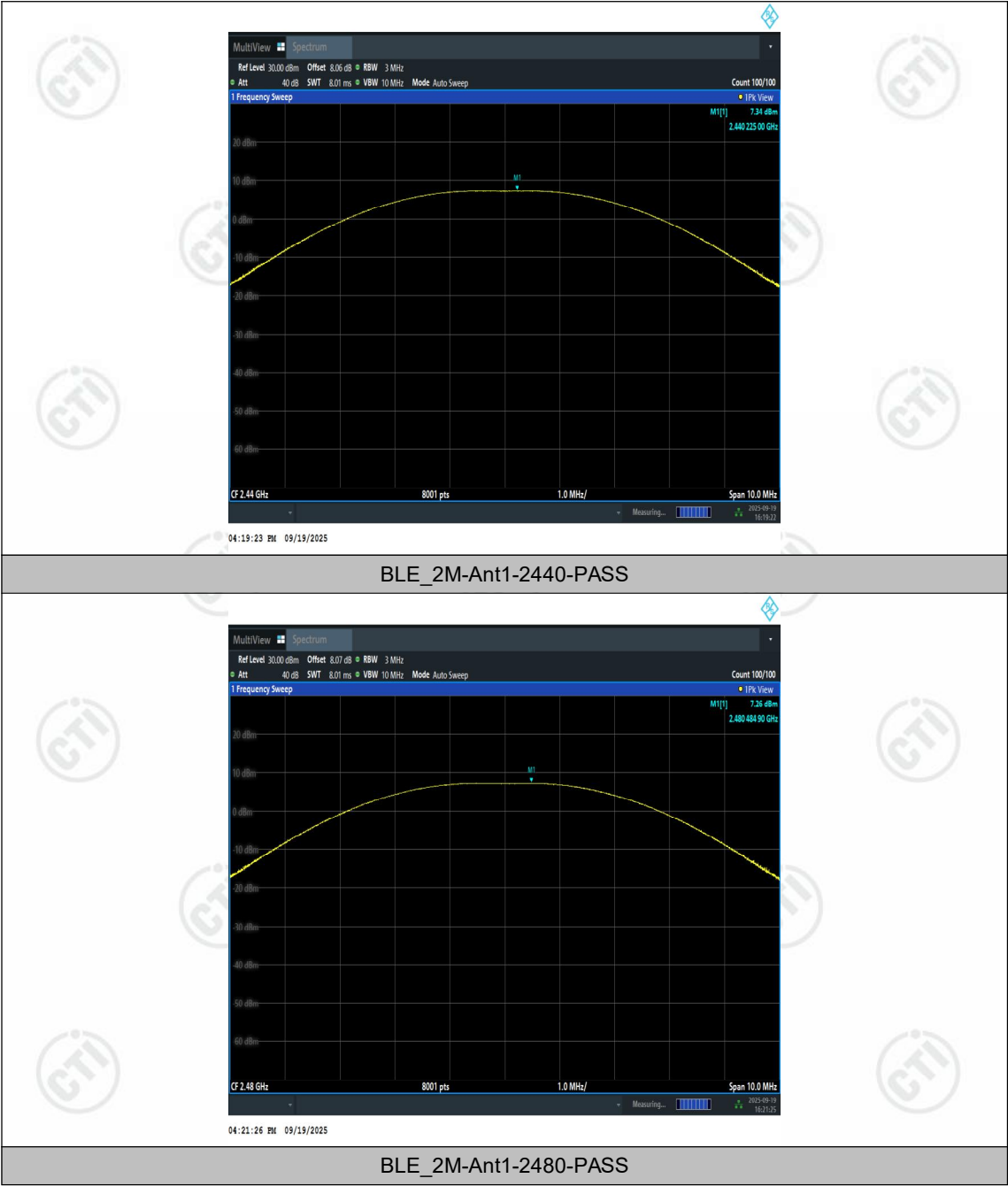
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.30	≤30	9.47	≤36	PASS
BLE_1M	Ant1	2440	7.38	≤30	9.55	≤36	PASS
BLE_1M	Ant1	2480	7.29	≤30	9.46	≤36	PASS
BLE_2M	Ant1	2402	7.29	≤30	9.46	≤36	PASS
BLE_2M	Ant1	2440	7.34	≤30	9.51	≤36	PASS
BLE_2M	Ant1	2480	7.26	≤30	9.43	≤36	PASS

Test Graphs Peak





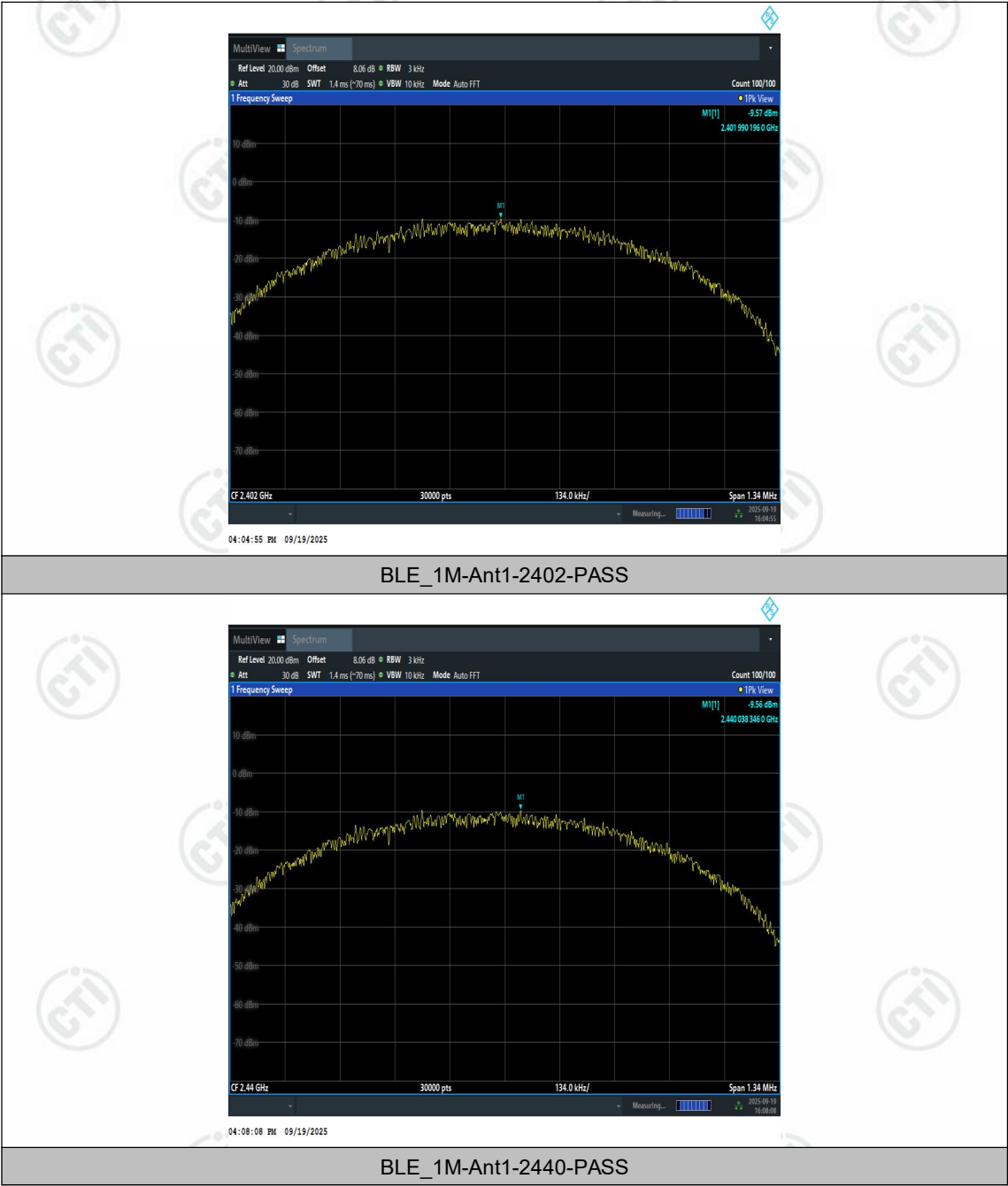


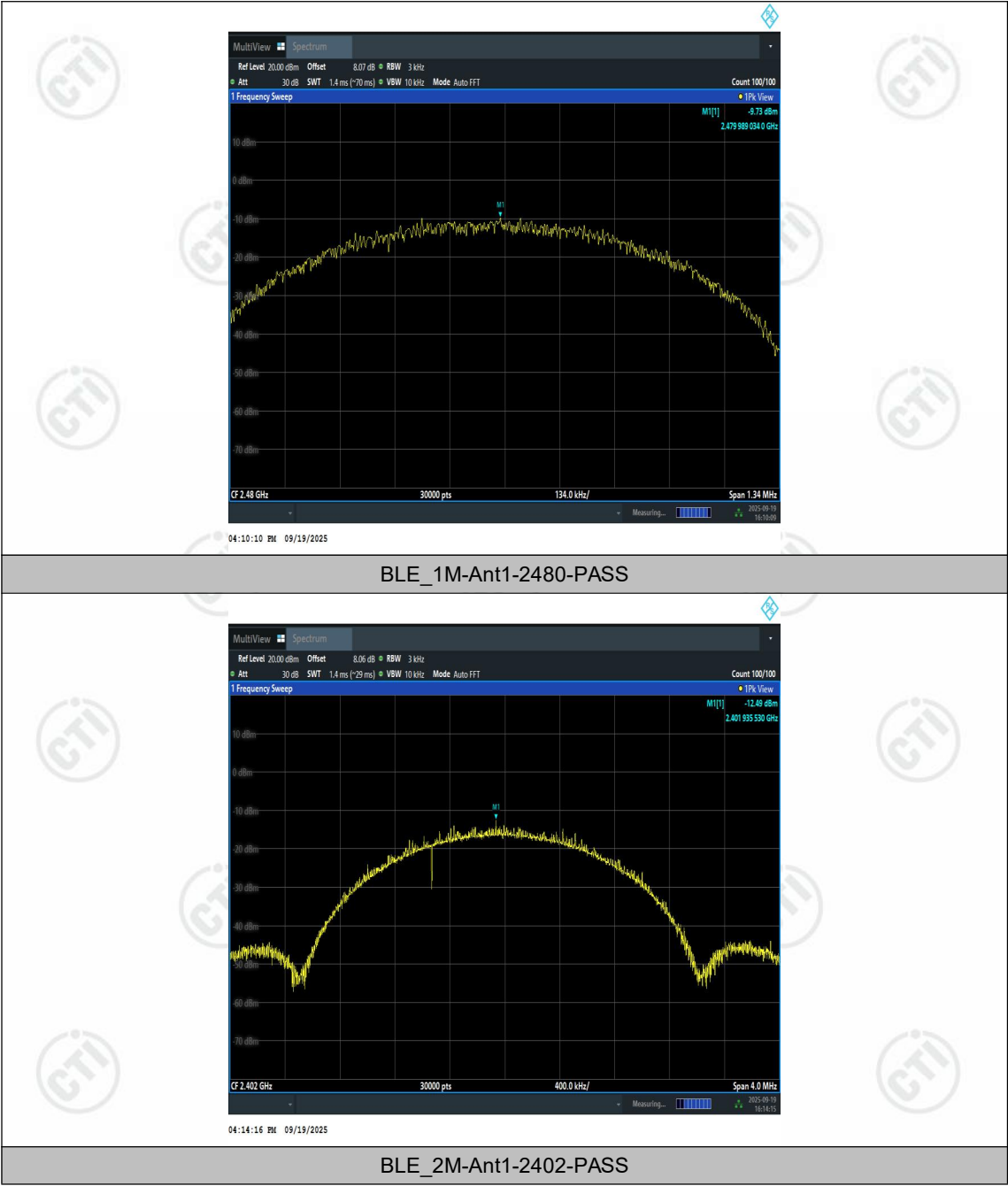
Appendix D: Maximum power spectral density

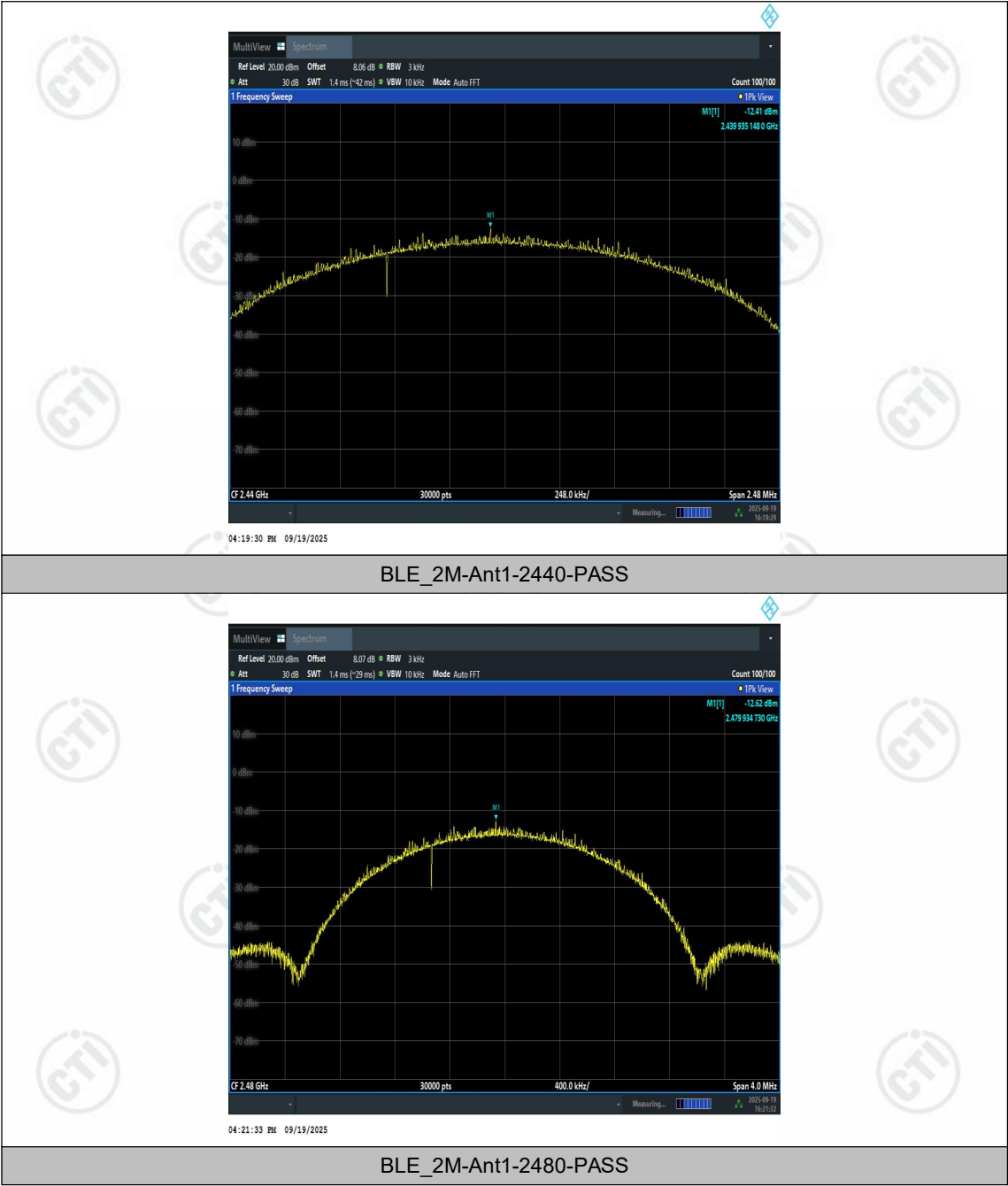
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.57	≤8.00	PASS
BLE_1M	Ant1	2440	-9.56	≤8.00	PASS
BLE_1M	Ant1	2480	-9.73	≤8.00	PASS
BLE_2M	Ant1	2402	-12.49	≤8.00	PASS
BLE_2M	Ant1	2440	-12.41	≤8.00	PASS
BLE_2M	Ant1	2480	-12.62	≤8.00	PASS

Test Graphs







Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.05	-47.1	≤-12.95	PASS
BLE_1M	Ant1	High	2480	6.88	-50.25	≤-13.12	PASS
BLE_2M	Ant1	Low	2402	6.03	-26.25	≤-13.97	PASS
BLE_2M	Ant1	High	2480	6.01	-49.93	≤-13.99	PASS

Test Graphs



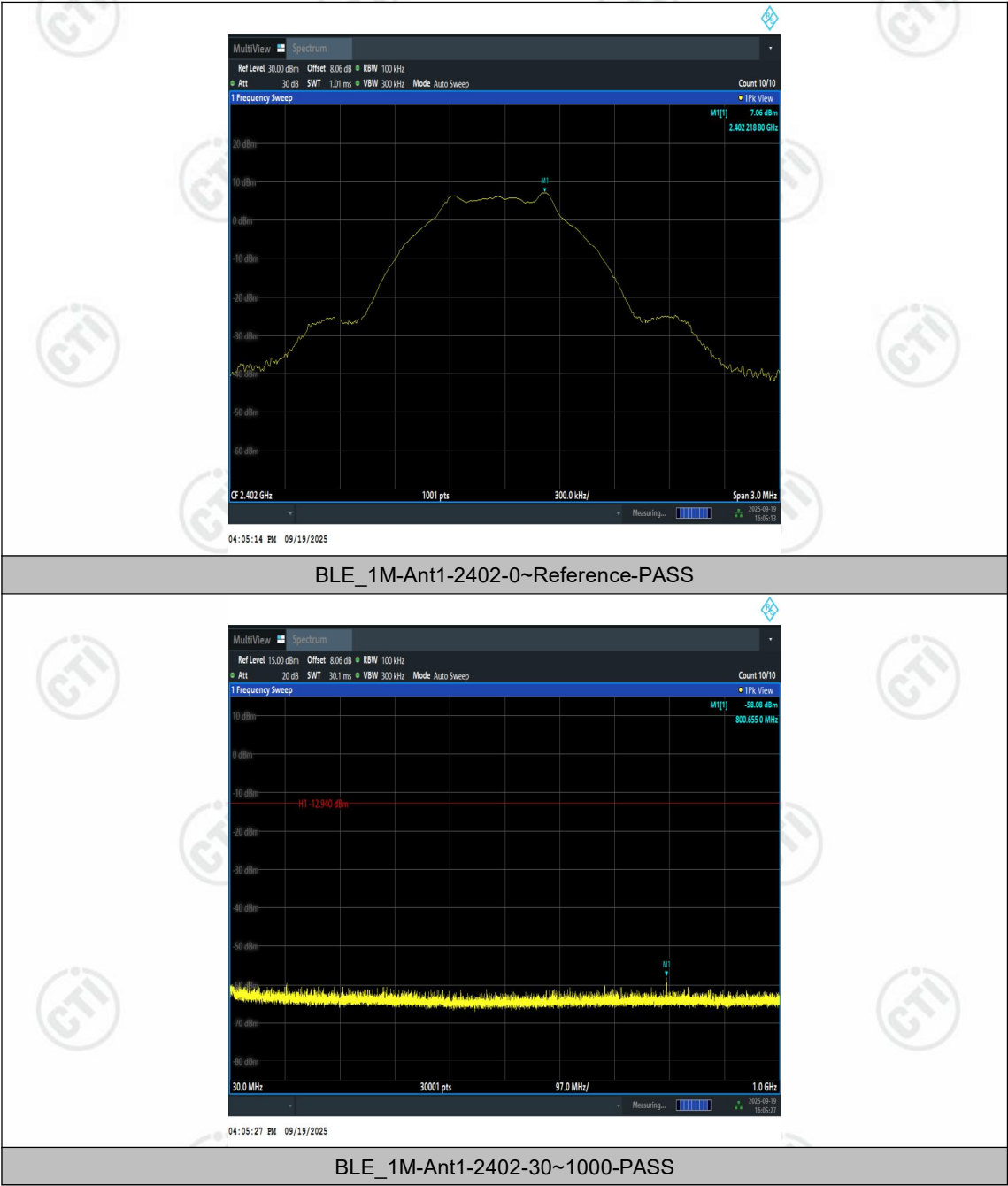


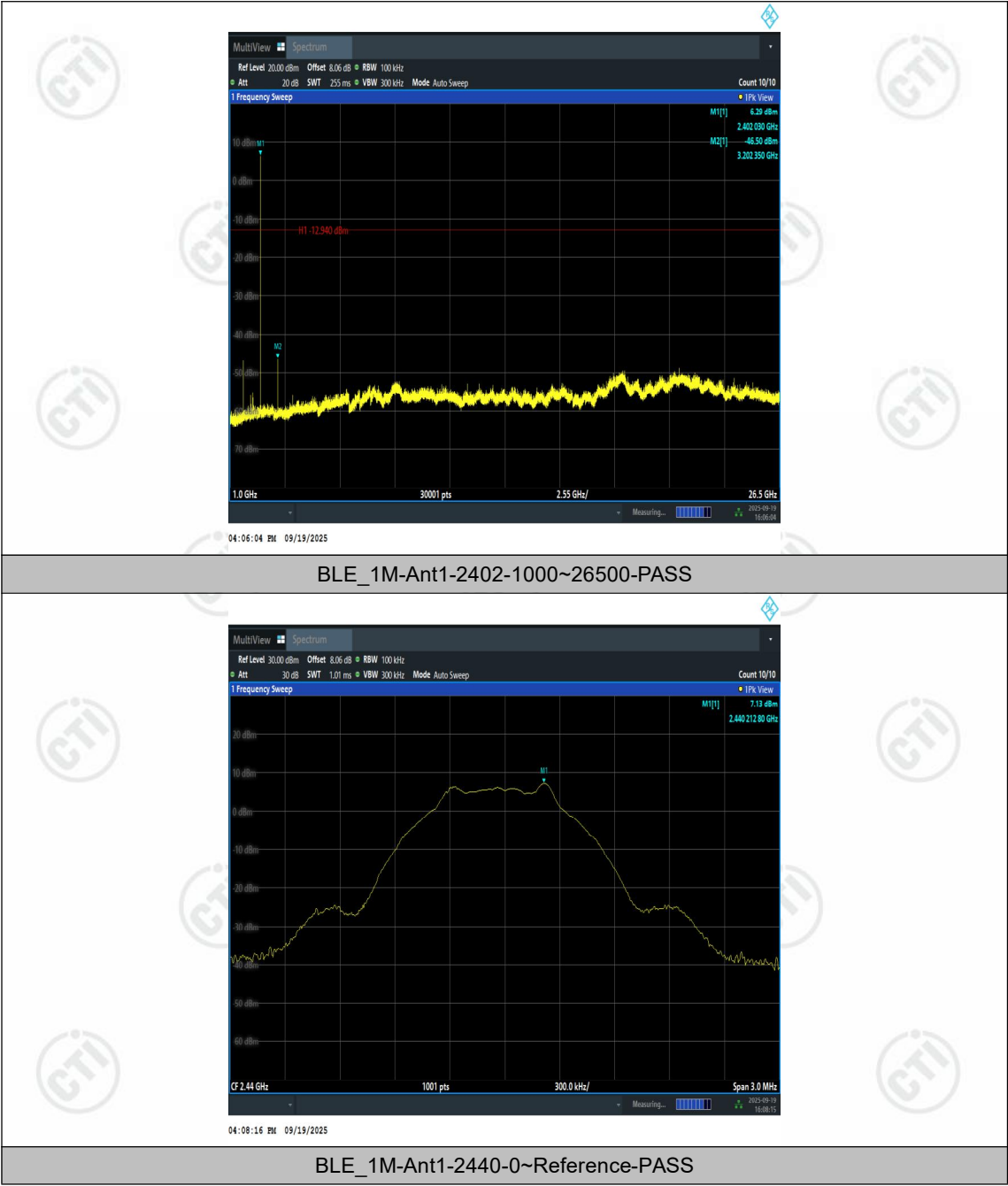
Appendix F: Conducted Spurious Emission

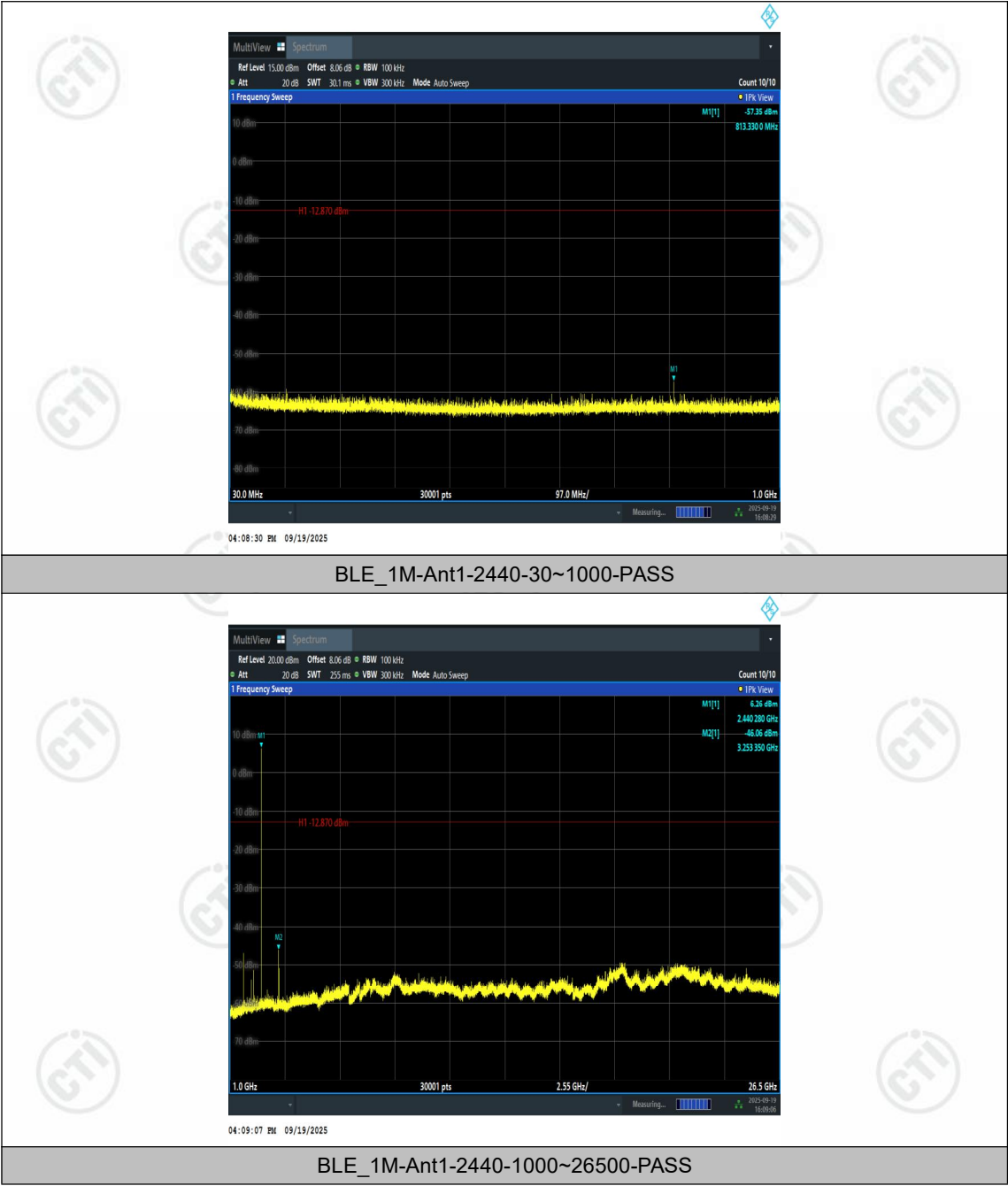
Test Result

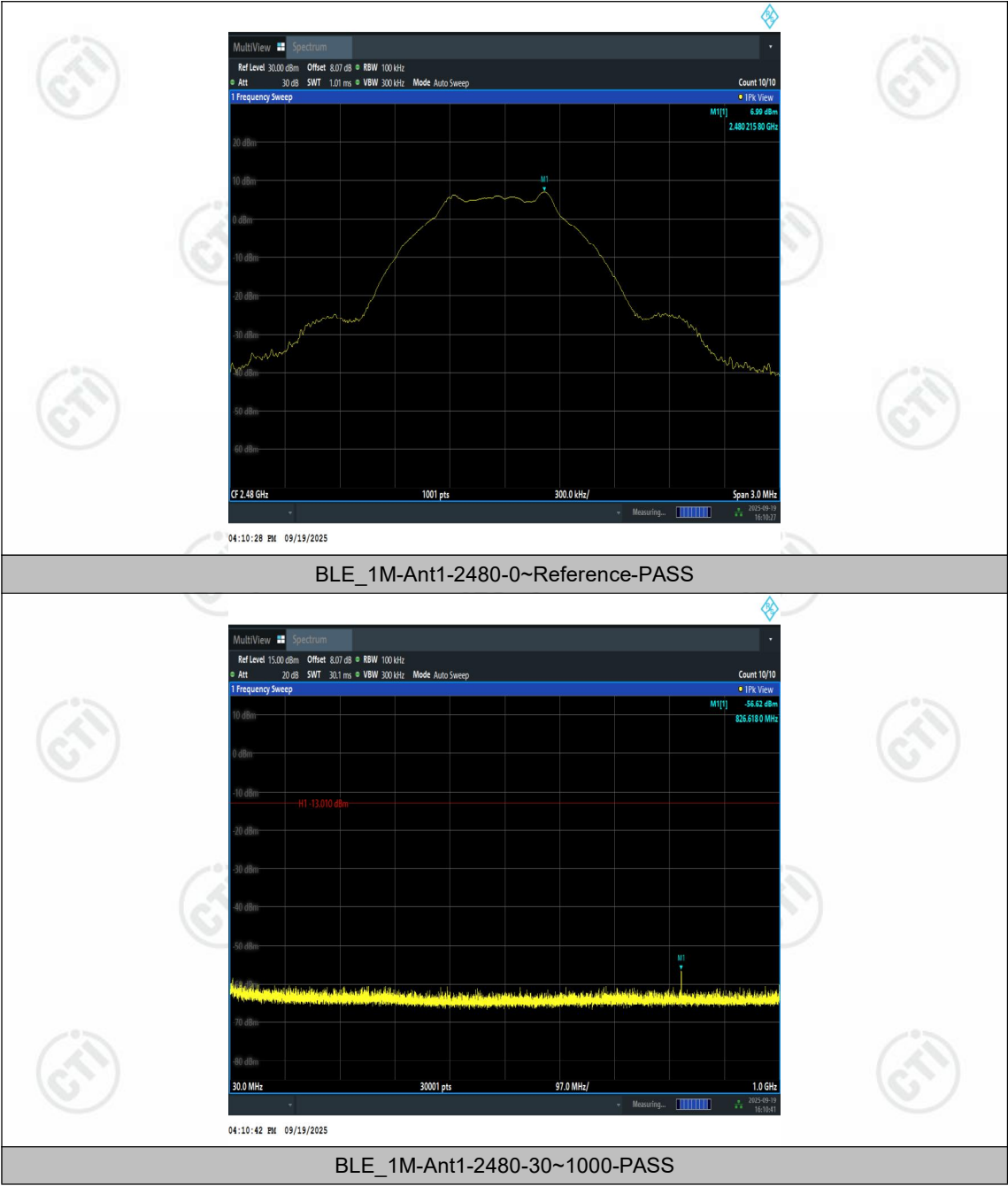
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	7.06	7.06	---	PASS
BLE_1M	Ant1	2402	30~1000	7.06	-58.08	≤-12.94	PASS
BLE_1M	Ant1	2402	1000~26500	7.06	-46.5	≤-12.94	PASS
BLE_1M	Ant1	2440	0~Reference	7.13	7.13	---	PASS
BLE_1M	Ant1	2440	30~1000	7.13	-57.35	≤-12.87	PASS
BLE_1M	Ant1	2440	1000~26500	7.13	-46.06	≤-12.87	PASS
BLE_1M	Ant1	2480	0~Reference	6.99	6.99	---	PASS
BLE_1M	Ant1	2480	30~1000	6.99	-56.62	≤-13.01	PASS
BLE_1M	Ant1	2480	1000~26500	6.99	-47.17	≤-13.01	PASS
BLE_2M	Ant1	2402	0~Reference	6.05	6.05	---	PASS
BLE_2M	Ant1	2402	30~1000	6.05	-57.88	≤-13.95	PASS
BLE_2M	Ant1	2402	1000~26500	6.05	-47.72	≤-13.95	PASS
BLE_2M	Ant1	2440	0~Reference	6.16	6.16	---	PASS
BLE_2M	Ant1	2440	30~1000	6.16	-57.85	≤-13.84	PASS
BLE_2M	Ant1	2440	1000~26500	6.16	-47.22	≤-13.84	PASS
BLE_2M	Ant1	2480	0~Reference	6.02	6.02	---	PASS
BLE_2M	Ant1	2480	30~1000	6.02	-57.36	≤-13.98	PASS
BLE_2M	Ant1	2480	1000~26500	6.02	-47.55	≤-13.98	PASS

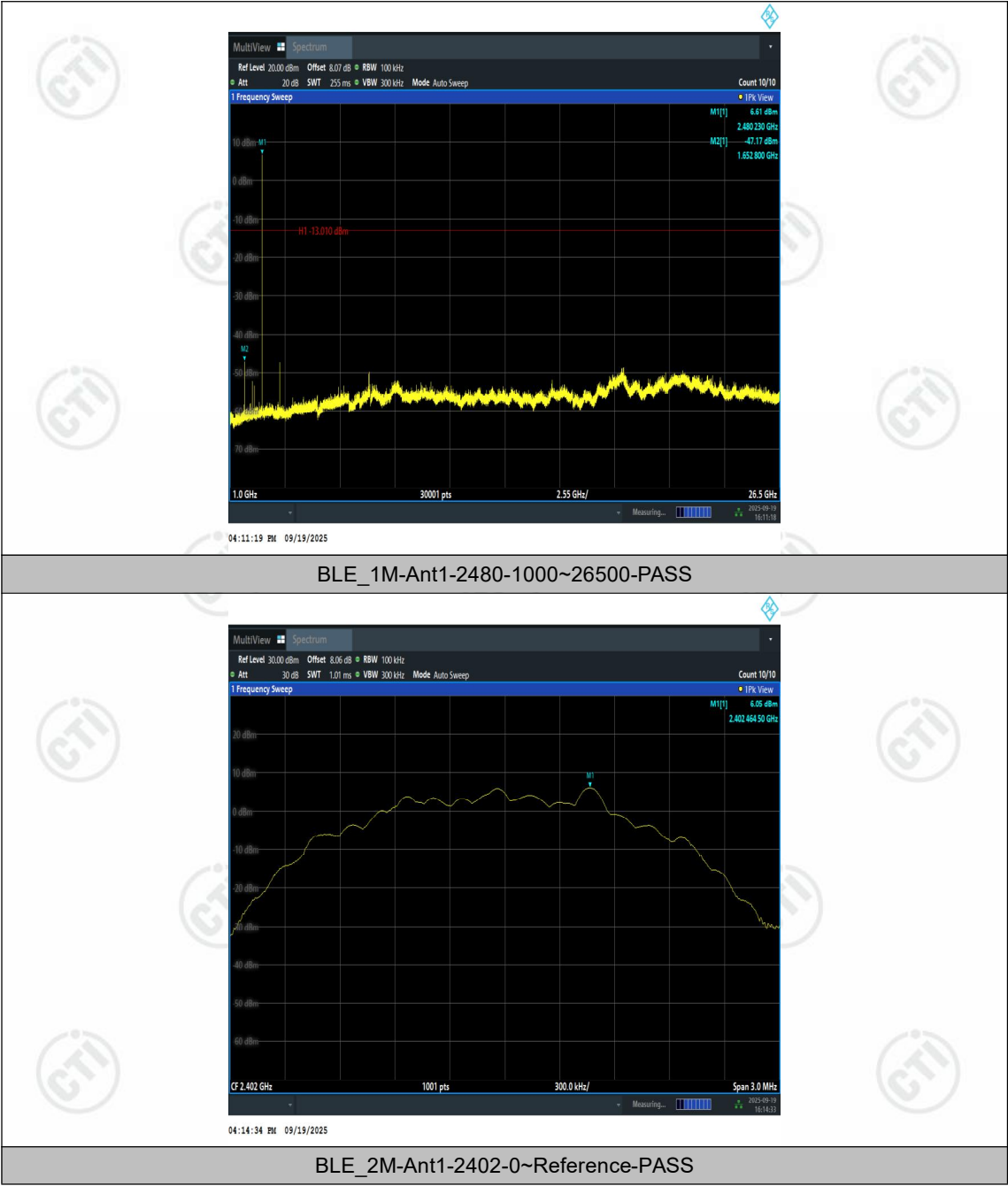
Test Graphs

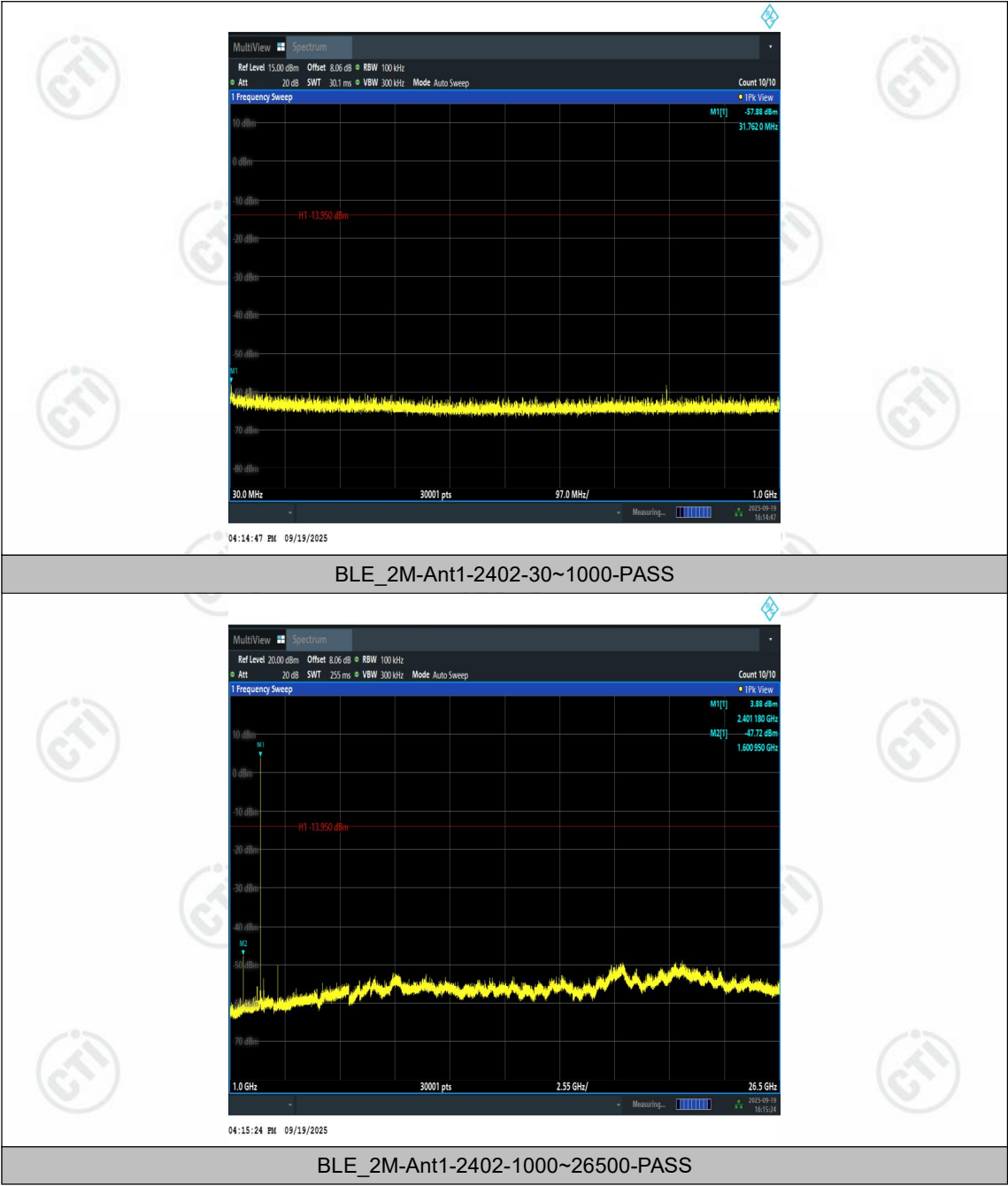


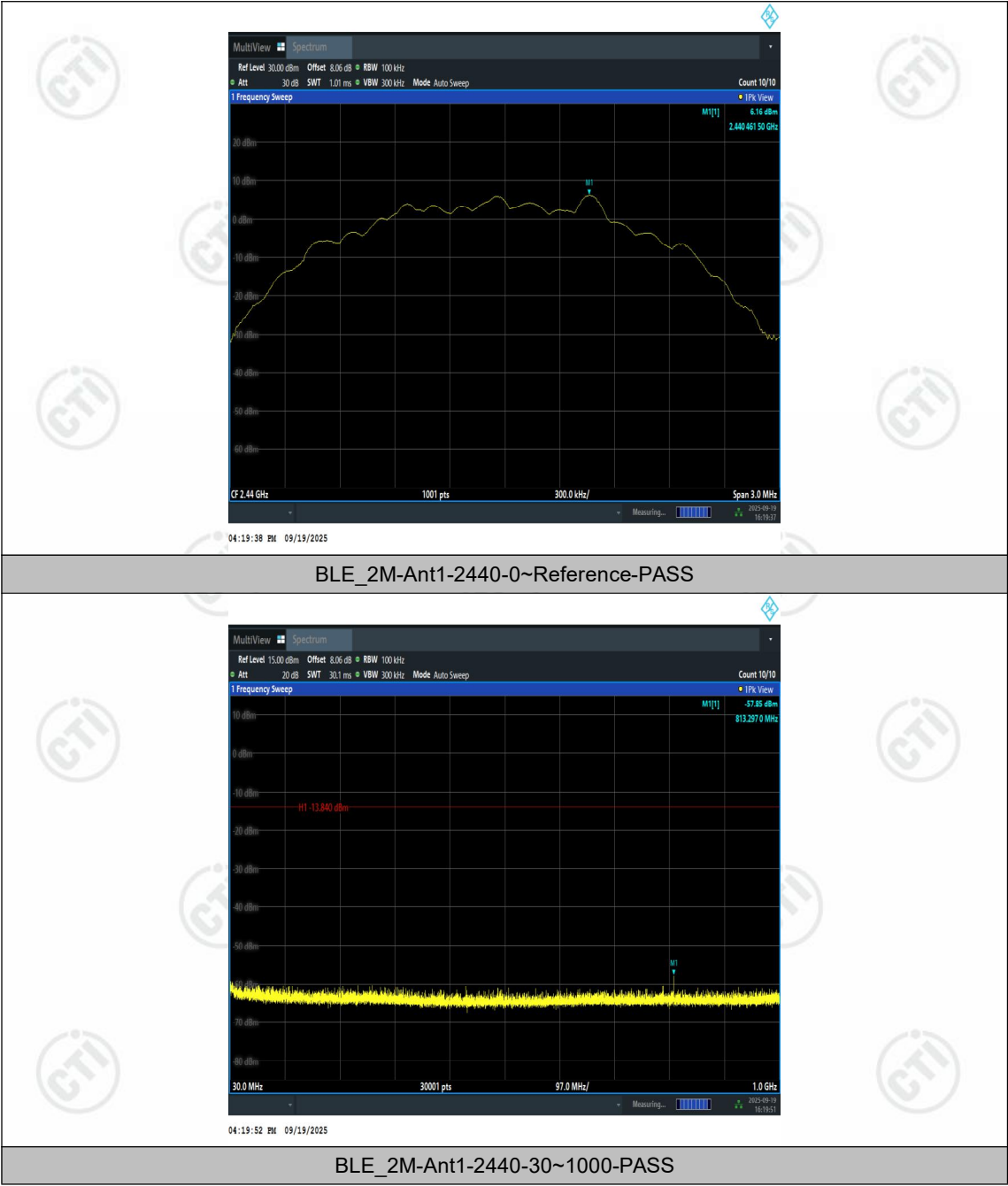


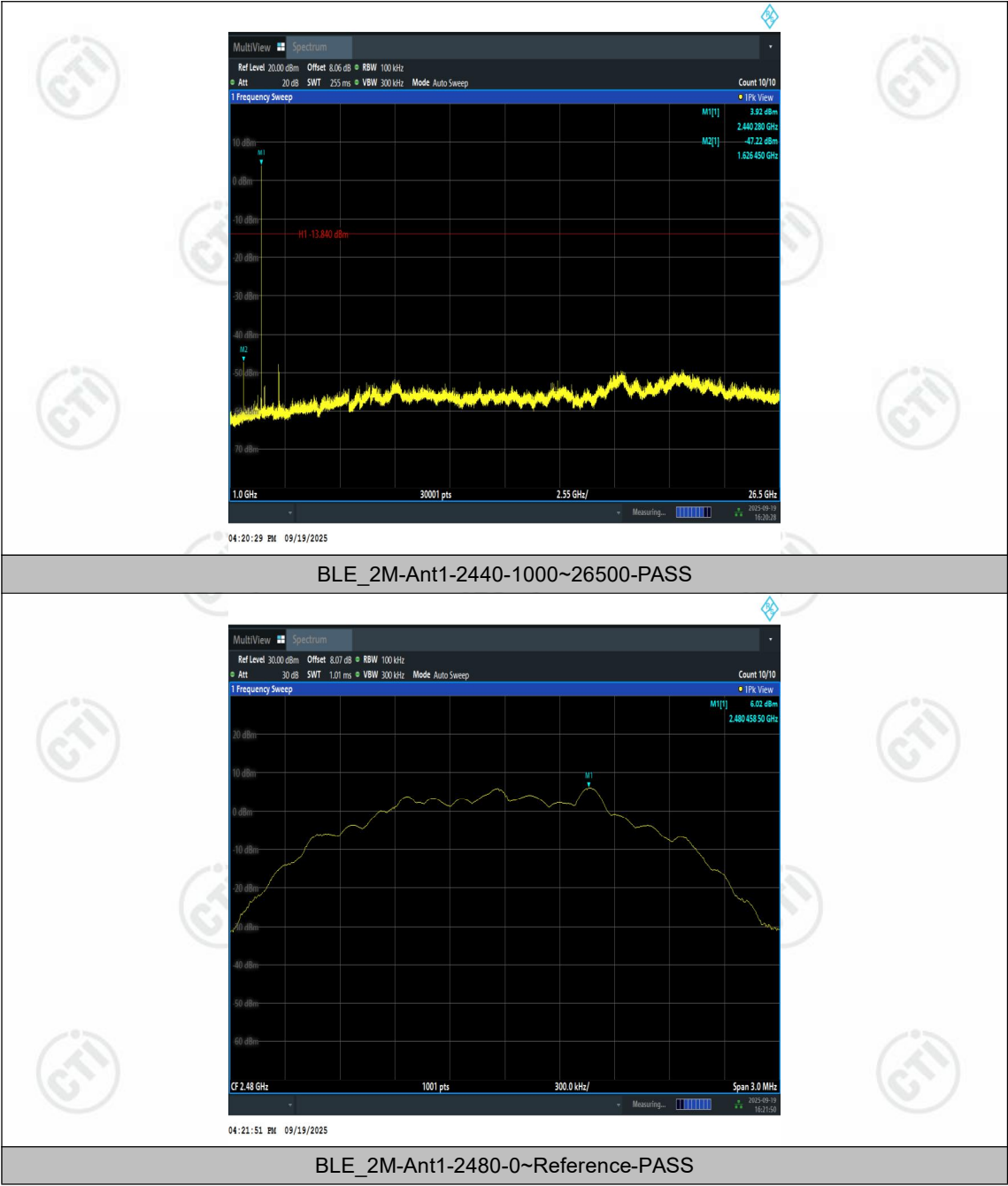


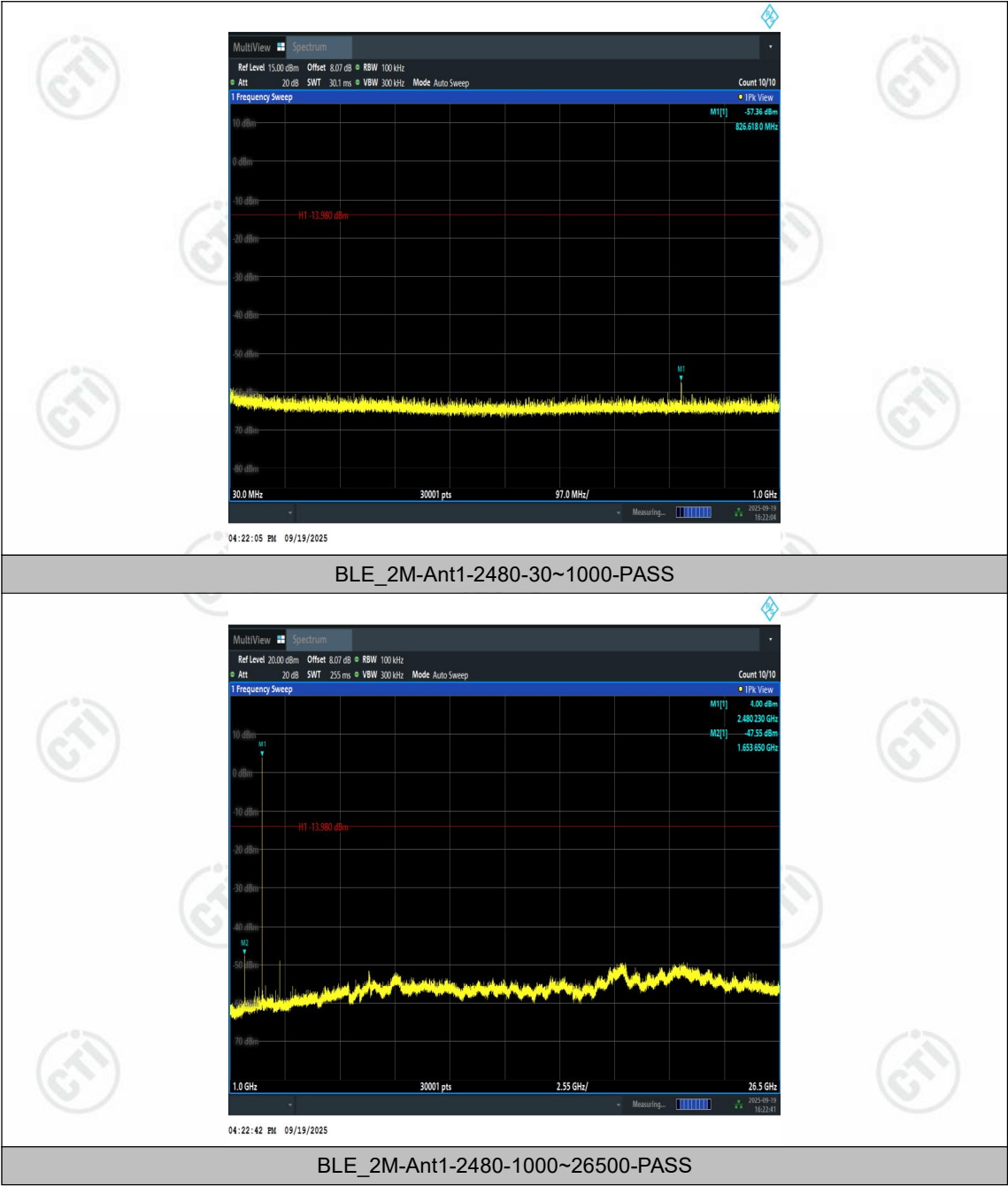












Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2440	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.12	2.50	84.80	0.72
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2480	1.06	1.87	56.68	2.47

Test Graphs







*** End of Report ***