

Appendix: Bluetooth LE

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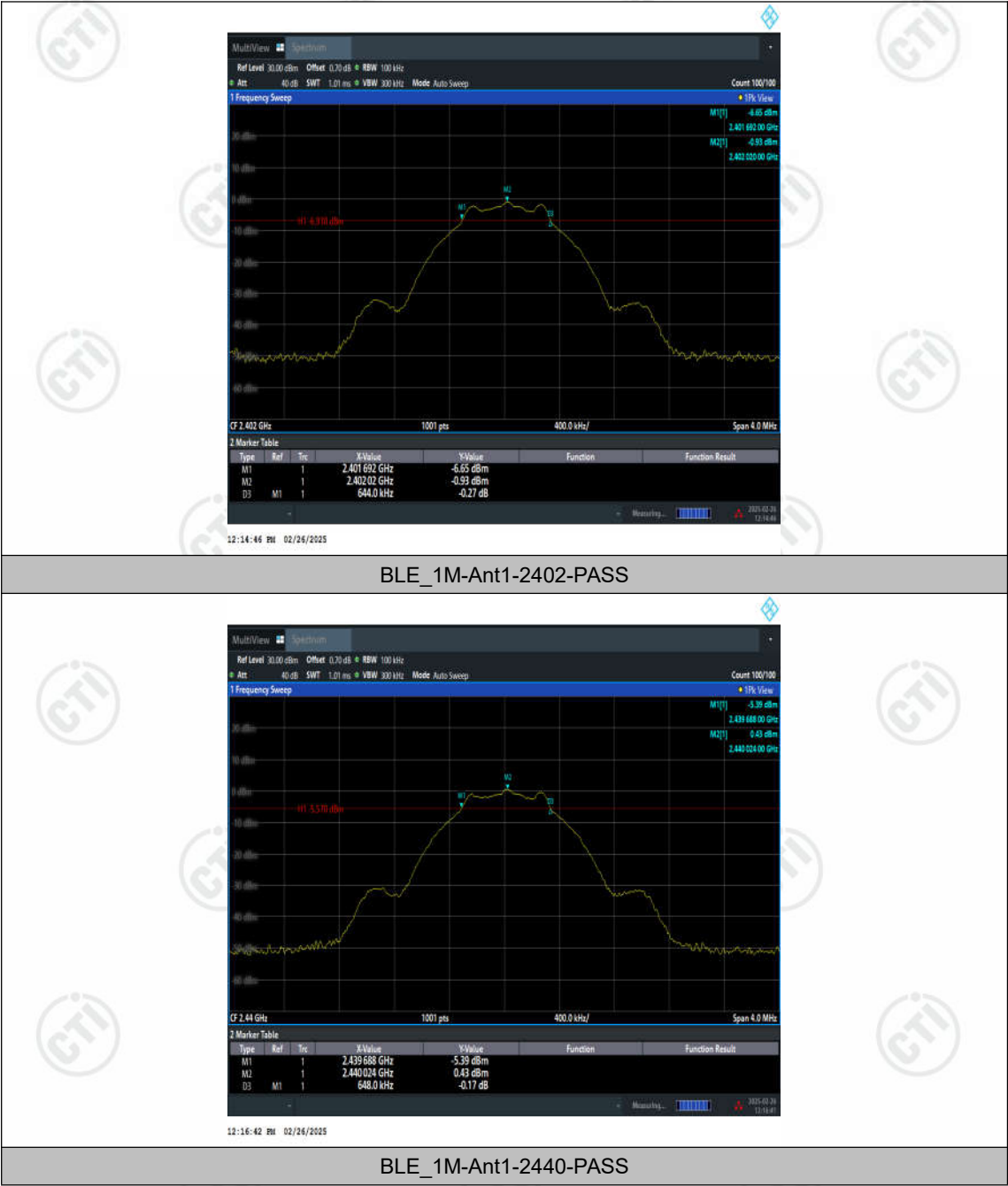
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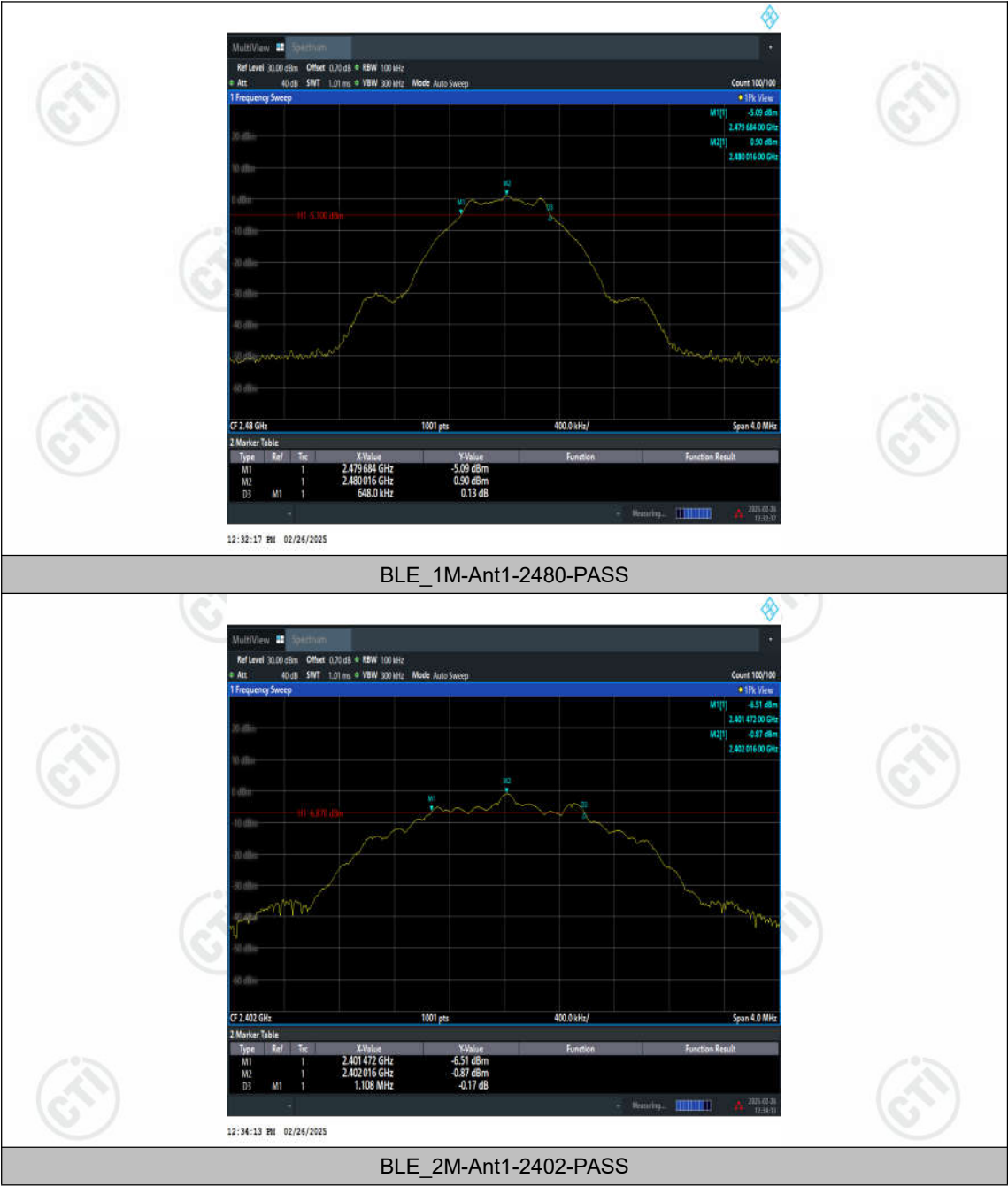
Appendix A: DTS Bandwidth

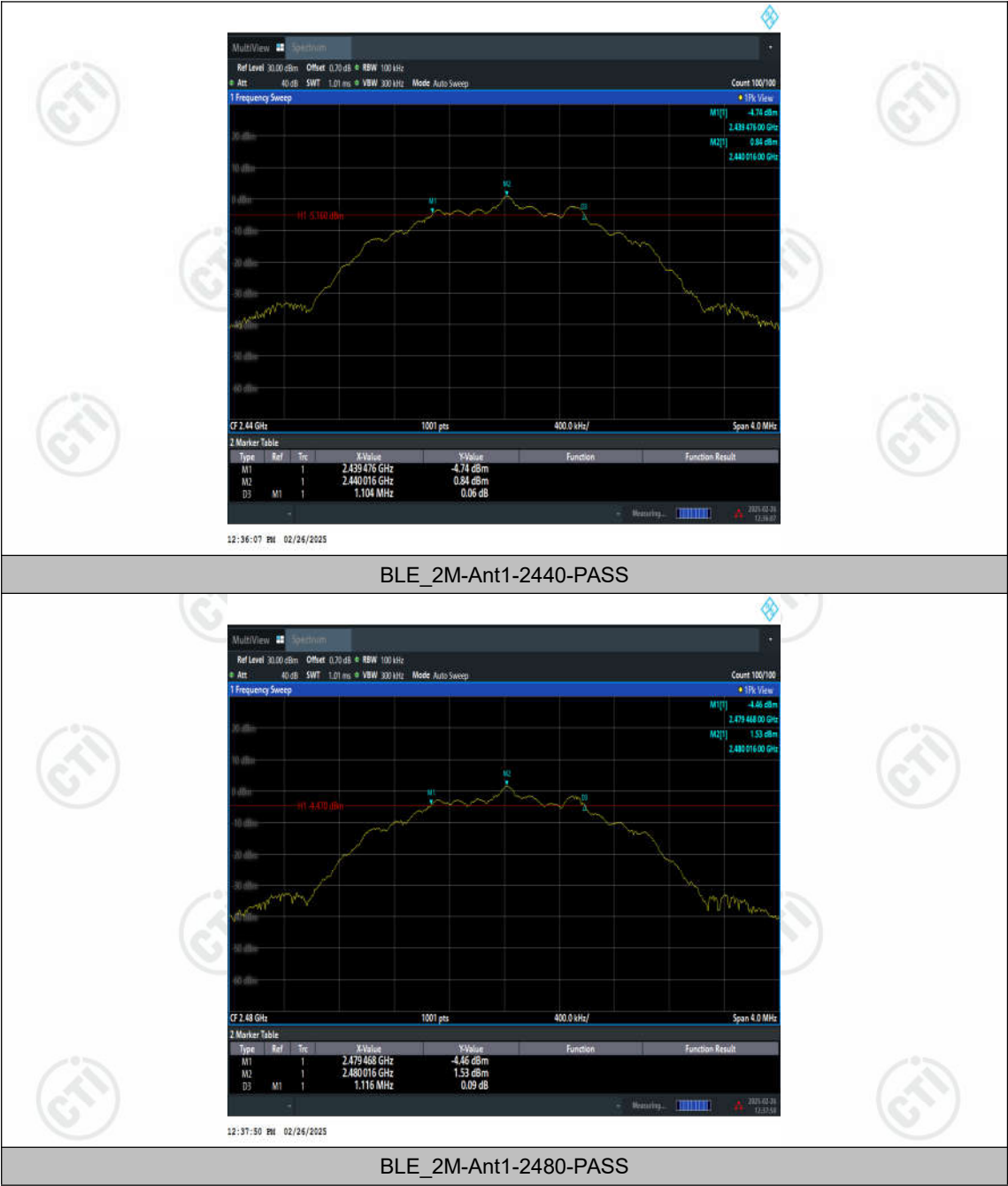
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.64	2401.69	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.65	2439.69	2440.34	0.5	PASS
BLE_1M	Ant1	2480	0.65	2479.68	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.11	2401.47	2402.58	0.5	PASS
BLE_2M	Ant1	2440	1.10	2439.48	2440.58	0.5	PASS
BLE_2M	Ant1	2480	1.12	2479.47	2480.58	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	1.019	2401.5069	2402.5259	---	---
BLE_1M	Ant1	2440	1.025	2439.5026	2440.5272	---	---
BLE_1M	Ant1	2480	1.023	2479.5010	2480.5241	---	---
BLE_2M	Ant1	2402	2.03	2401.0075	2403.0374	---	---
BLE_2M	Ant1	2440	2.033	2439.0066	2441.0400	---	---
BLE_2M	Ant1	2480	2.033	2479.0064	2481.0396	---	---

Test Graphs





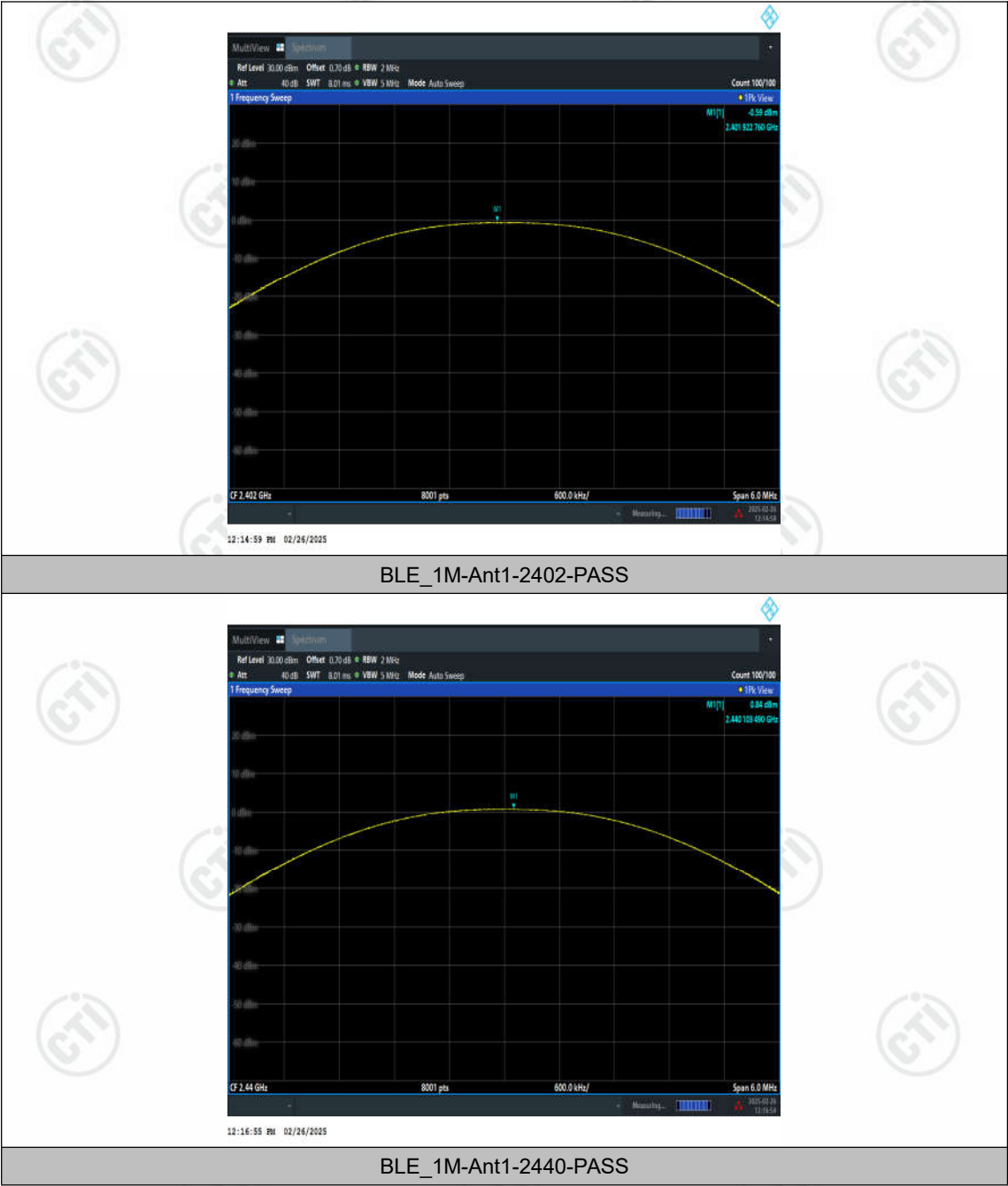


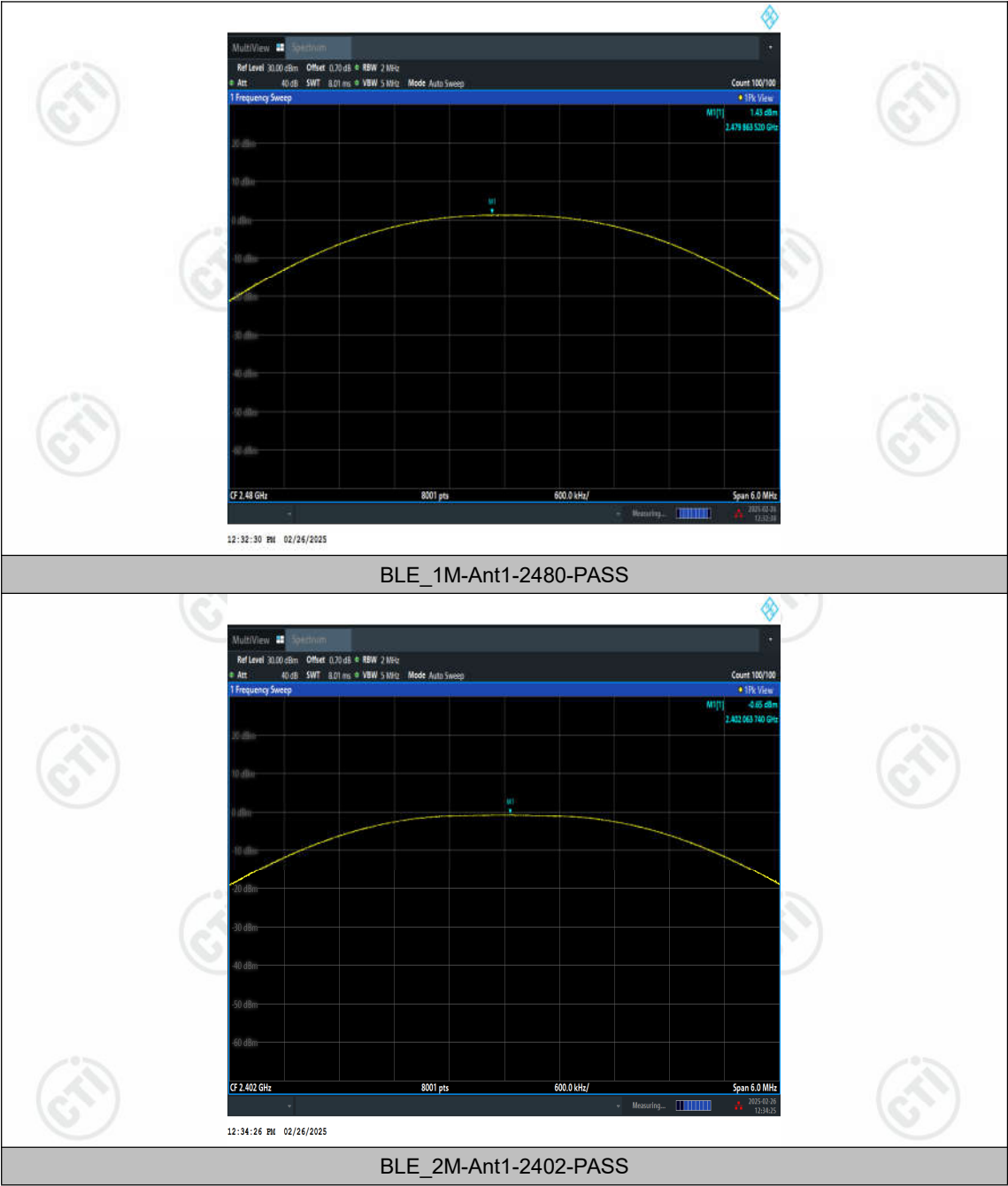
Appendix C: Maximum conducted output power

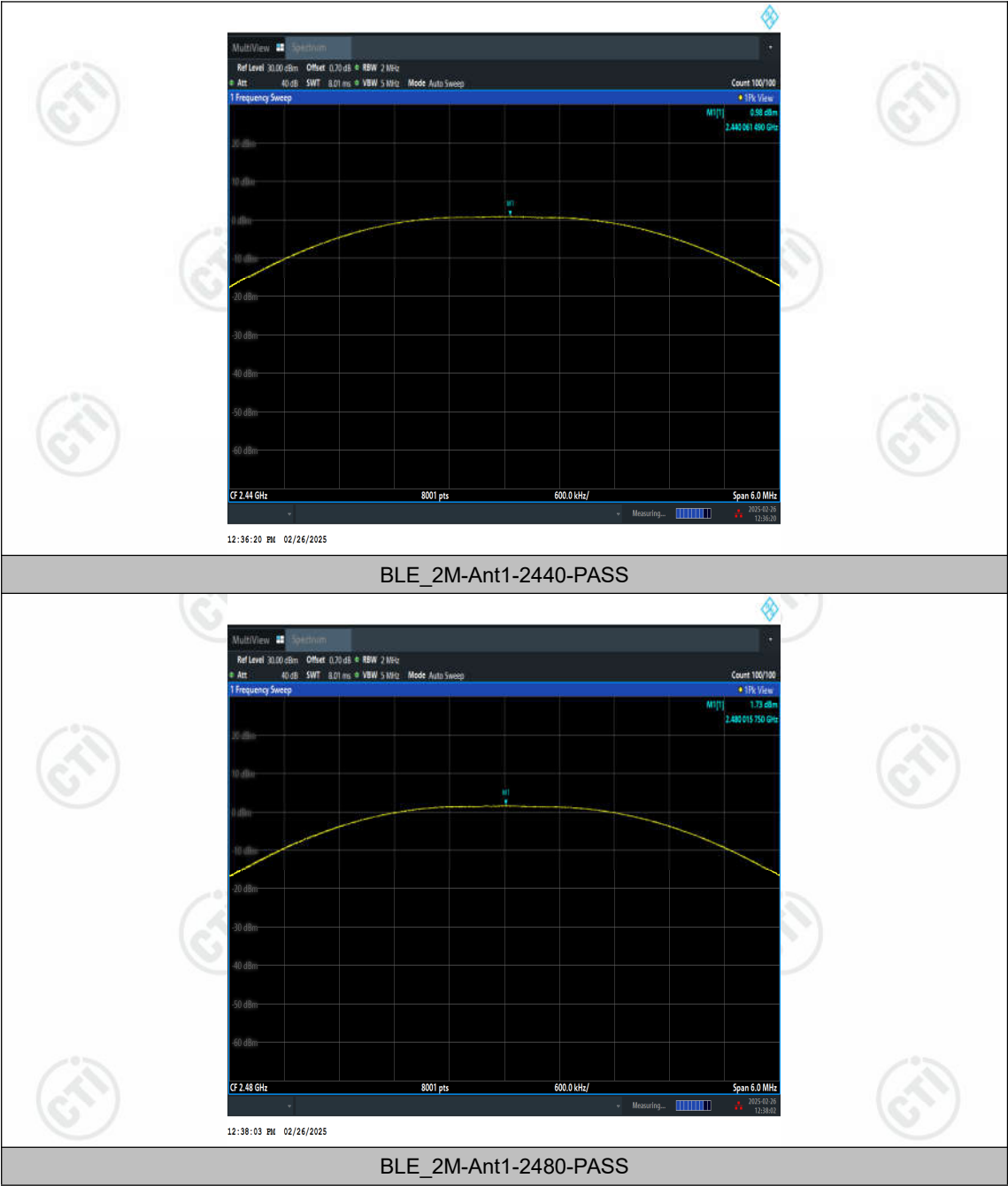
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.59	≤30	PASS
BLE_1M	Ant1	2440	0.84	≤30	PASS
BLE_1M	Ant1	2480	1.43	≤30	PASS
BLE_2M	Ant1	2402	-0.65	≤30	PASS
BLE_2M	Ant1	2440	0.98	≤30	PASS
BLE_2M	Ant1	2480	1.73	≤30	PASS

Test Graphs Peak





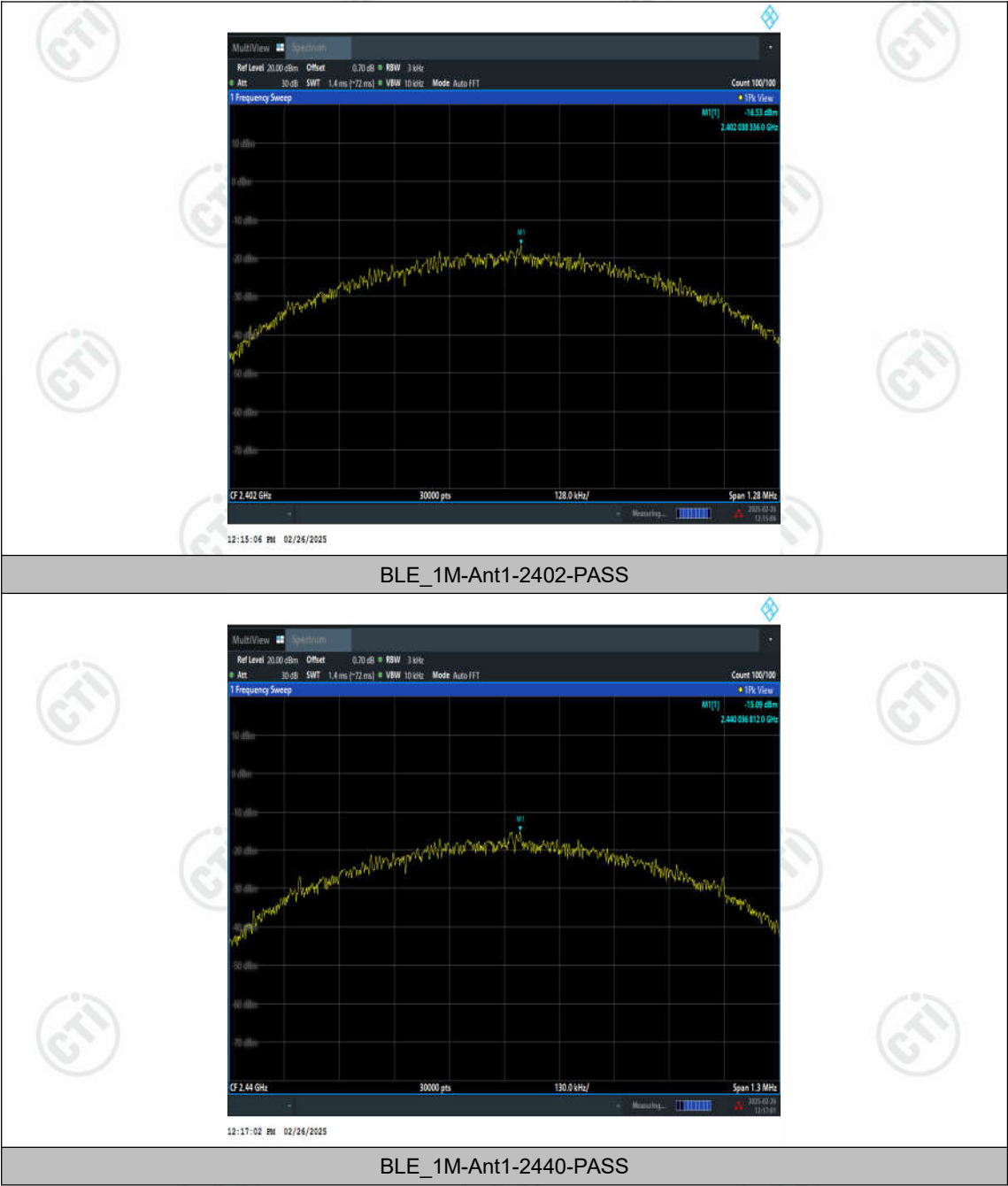


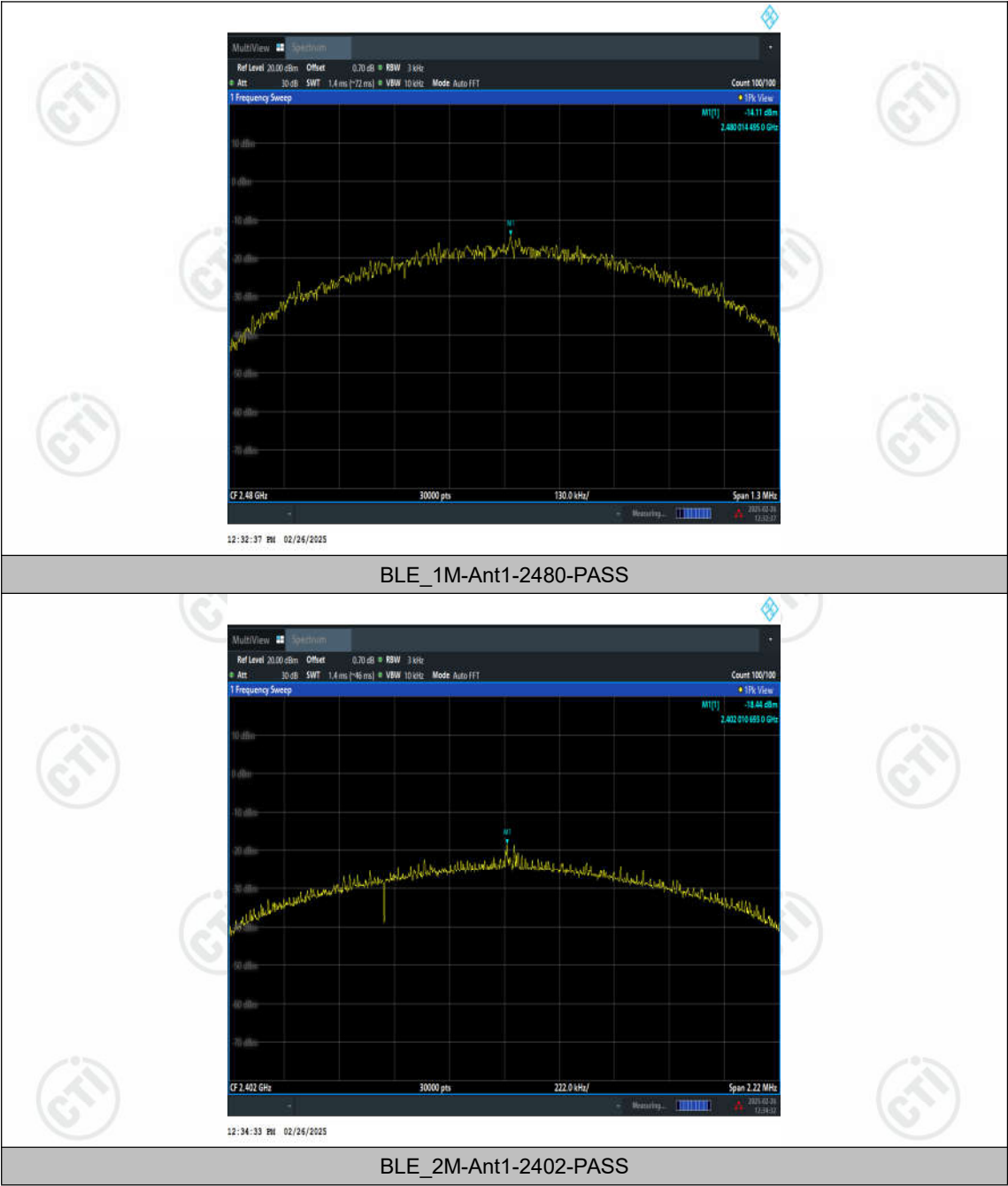
Appendix D: Maximum power spectral density

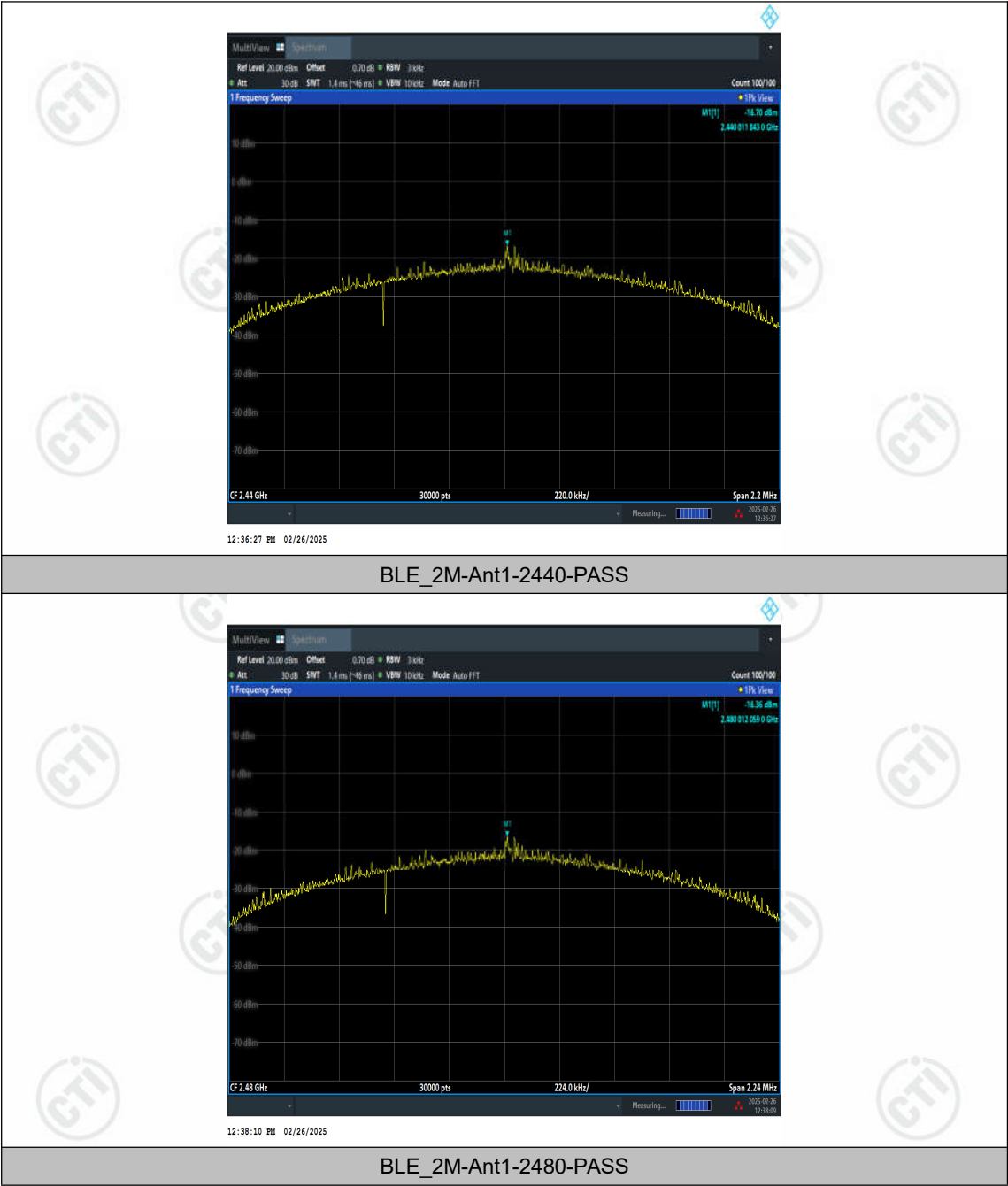
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.53	≤8.00	PASS
BLE_1M	Ant1	2440	-15.09	≤8.00	PASS
BLE_1M	Ant1	2480	-14.11	≤8.00	PASS
BLE_2M	Ant1	2402	-18.44	≤8.00	PASS
BLE_2M	Ant1	2440	-16.70	≤8.00	PASS
BLE_2M	Ant1	2480	-16.36	≤8.00	PASS

Test Graphs







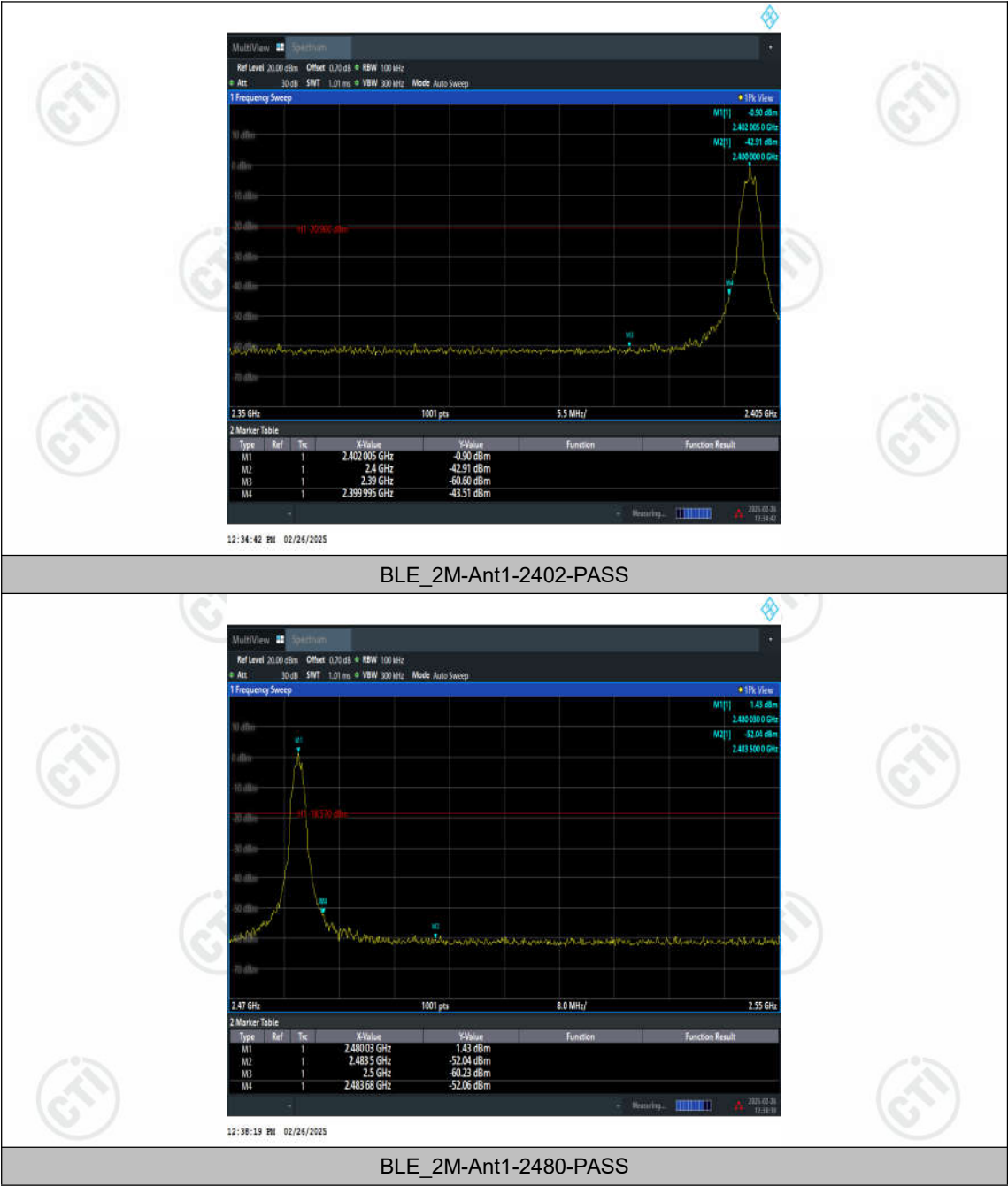
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.04	-52.88	≤-21.04	PASS
BLE_1M	Ant1	High	2480	0.80	-57.85	≤-19.2	PASS
BLE_2M	Ant1	Low	2402	-0.90	-43.51	≤-20.9	PASS
BLE_2M	Ant1	High	2480	1.43	-52.06	≤-18.57	PASS

Test Graphs



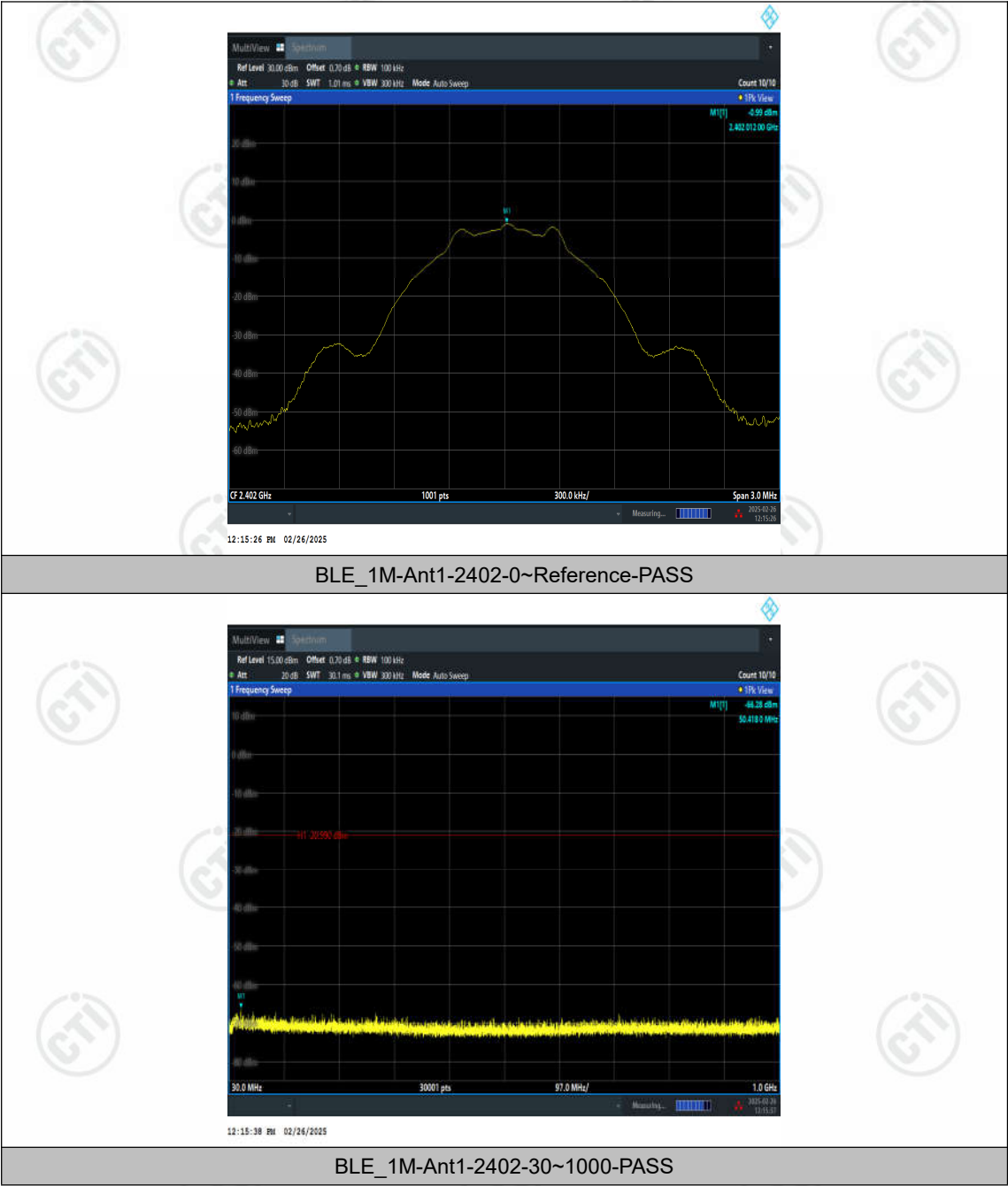


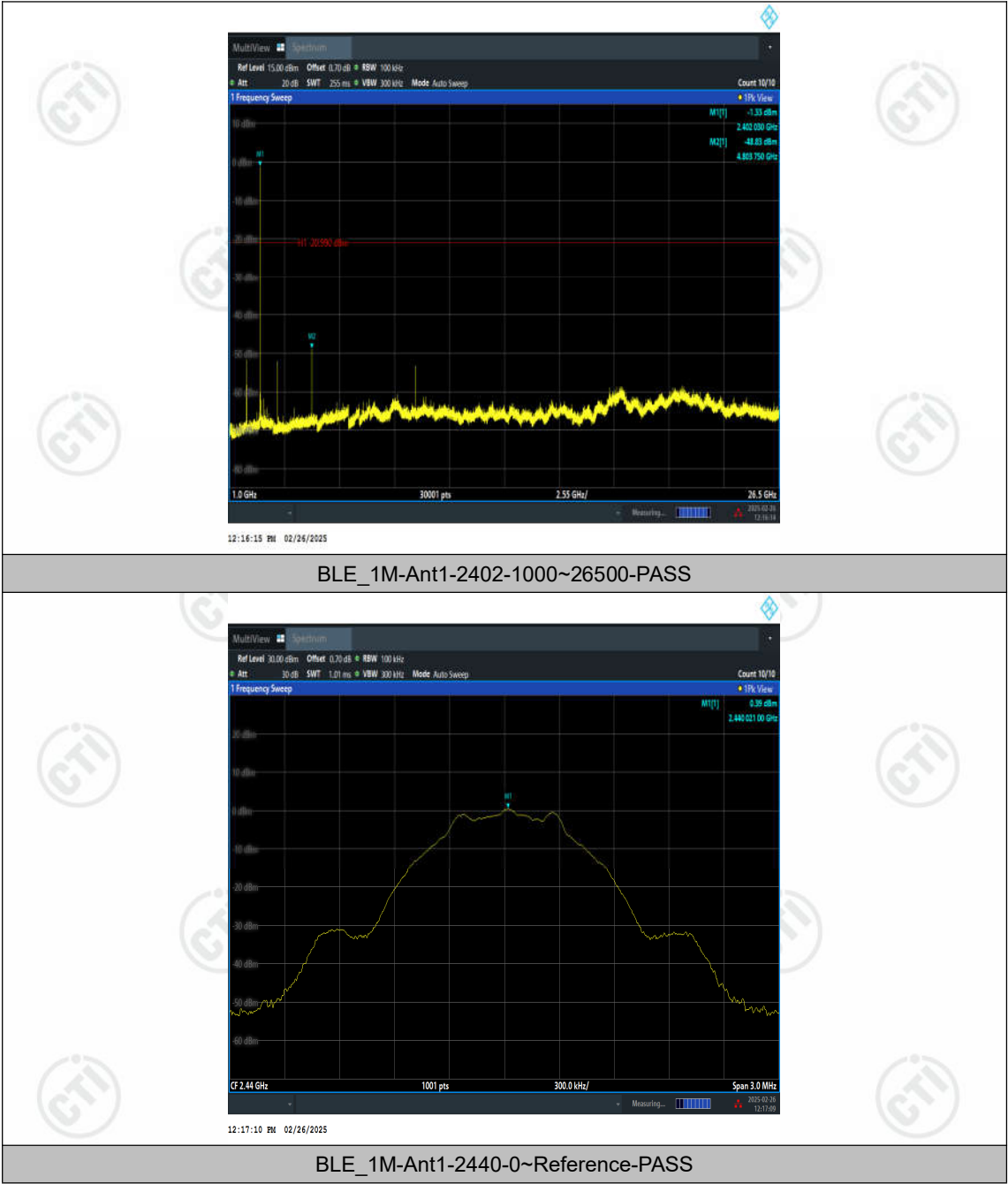
Appendix F: Conducted Spurious Emission

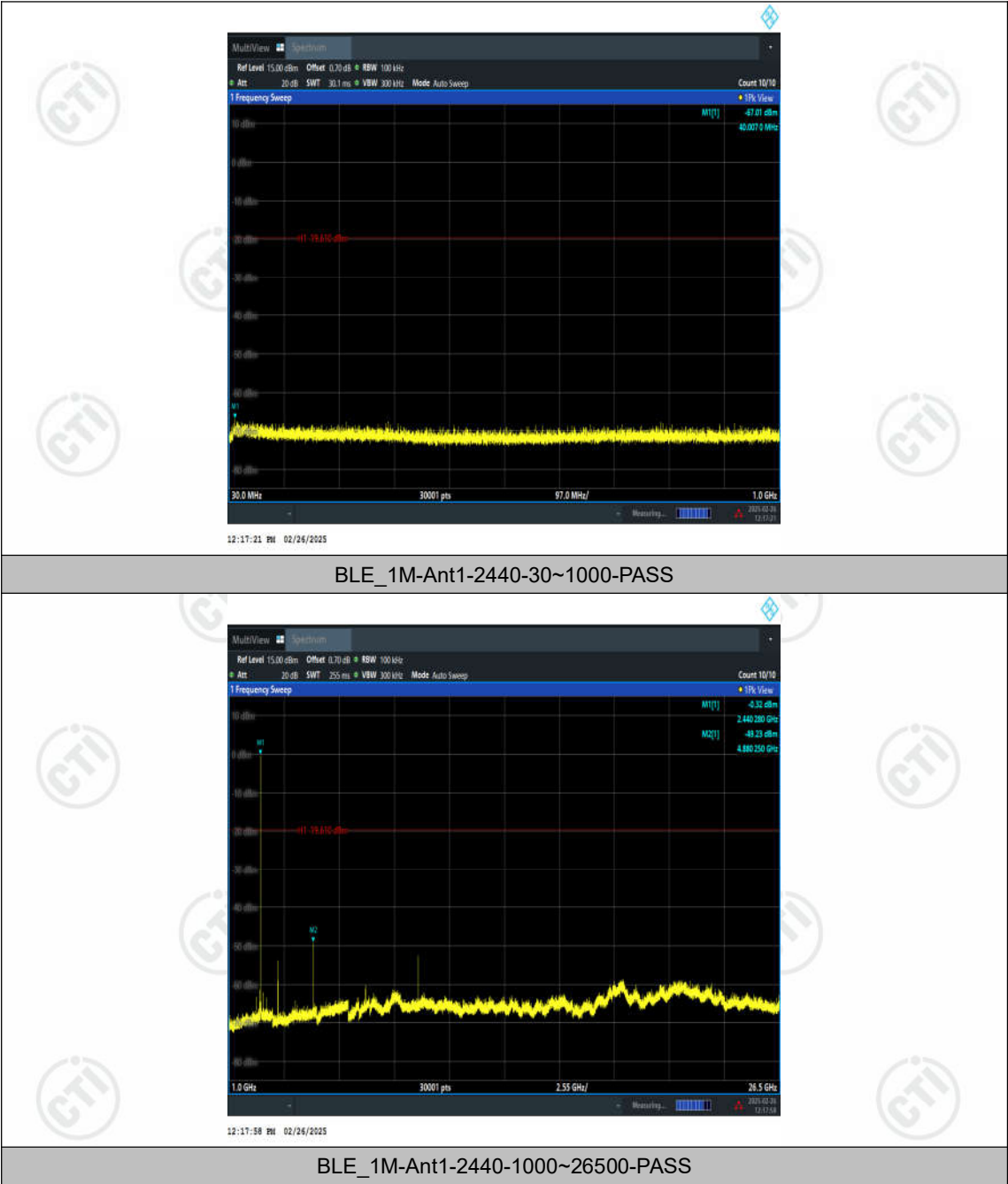
Test Result

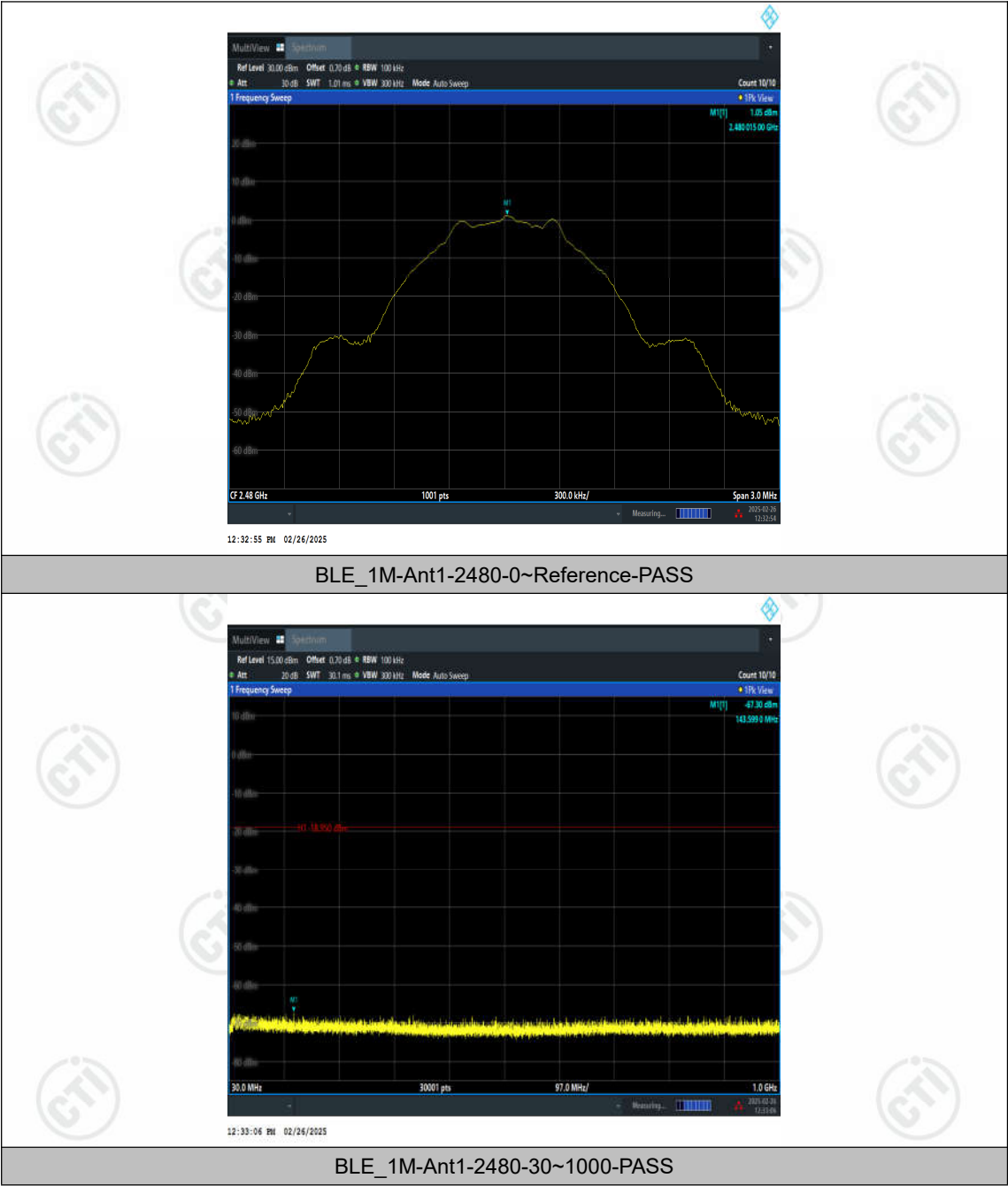
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.99	-0.99	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.99	-66.28	≤-20.99	PASS
BLE_1M	Ant1	2402	1000~26500	-0.99	-48.83	≤-20.99	PASS
BLE_1M	Ant1	2440	0~Reference	0.39	0.39	---	PASS
BLE_1M	Ant1	2440	30~1000	0.39	-67.01	≤-19.61	PASS
BLE_1M	Ant1	2440	1000~26500	0.39	-49.23	≤-19.61	PASS
BLE_1M	Ant1	2480	0~Reference	1.05	1.05	---	PASS
BLE_1M	Ant1	2480	30~1000	1.05	-67.3	≤-18.95	PASS
BLE_1M	Ant1	2480	1000~26500	1.05	-50.41	≤-18.95	PASS
BLE_2M	Ant1	2402	0~Reference	-1.05	-1.05	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.05	-66.98	≤-21.05	PASS
BLE_2M	Ant1	2402	1000~26500	-1.05	-50.96	≤-21.05	PASS
BLE_2M	Ant1	2440	0~Reference	0.65	0.65	---	PASS
BLE_2M	Ant1	2440	30~1000	0.65	-66.46	≤-19.35	PASS
BLE_2M	Ant1	2440	1000~26500	0.65	-50.15	≤-19.35	PASS
BLE_2M	Ant1	2480	0~Reference	1.48	1.48	---	PASS
BLE_2M	Ant1	2480	30~1000	1.48	-67.09	≤-18.52	PASS
BLE_2M	Ant1	2480	1000~26500	1.48	-50.33	≤-18.52	PASS

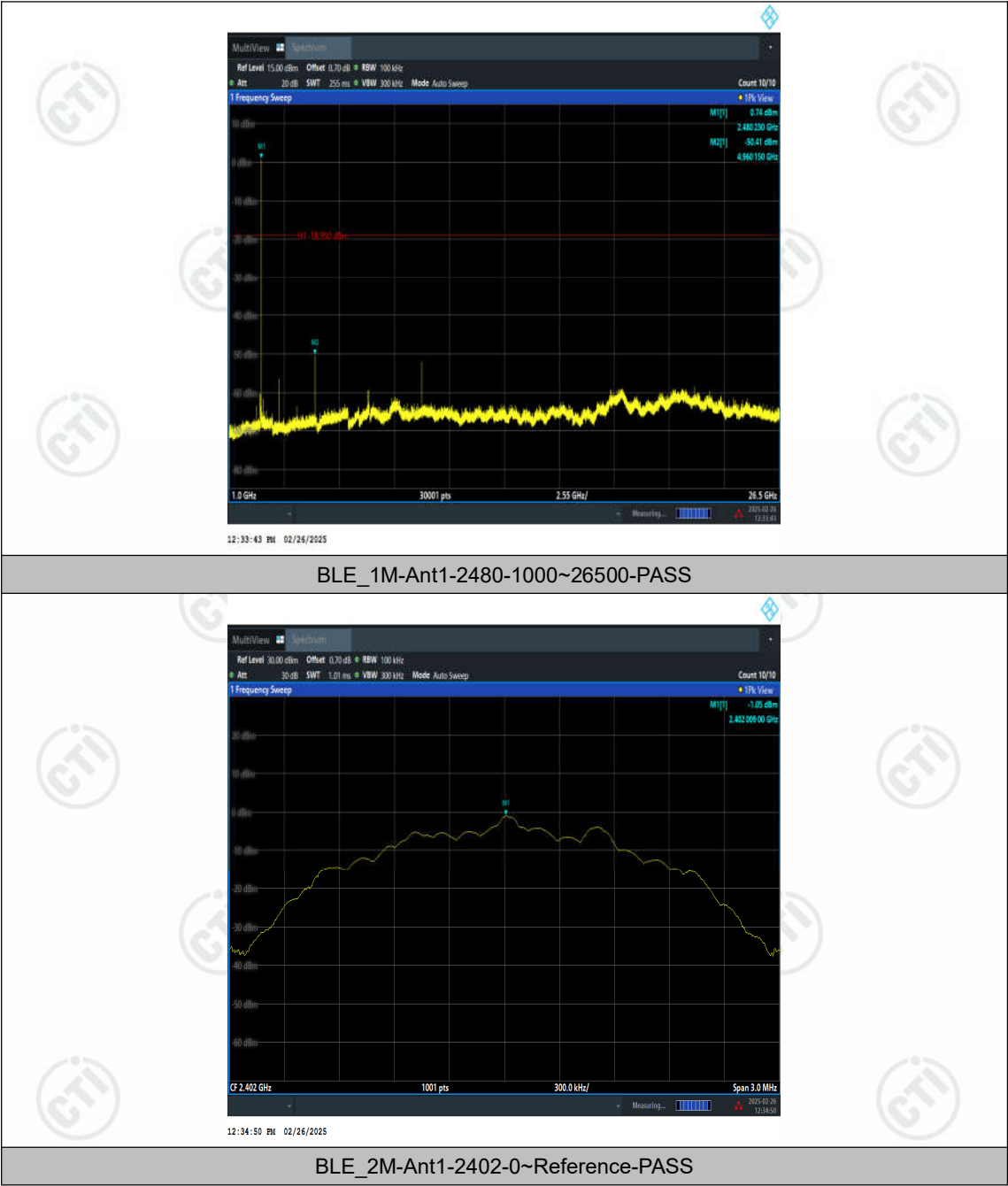
Test Graphs

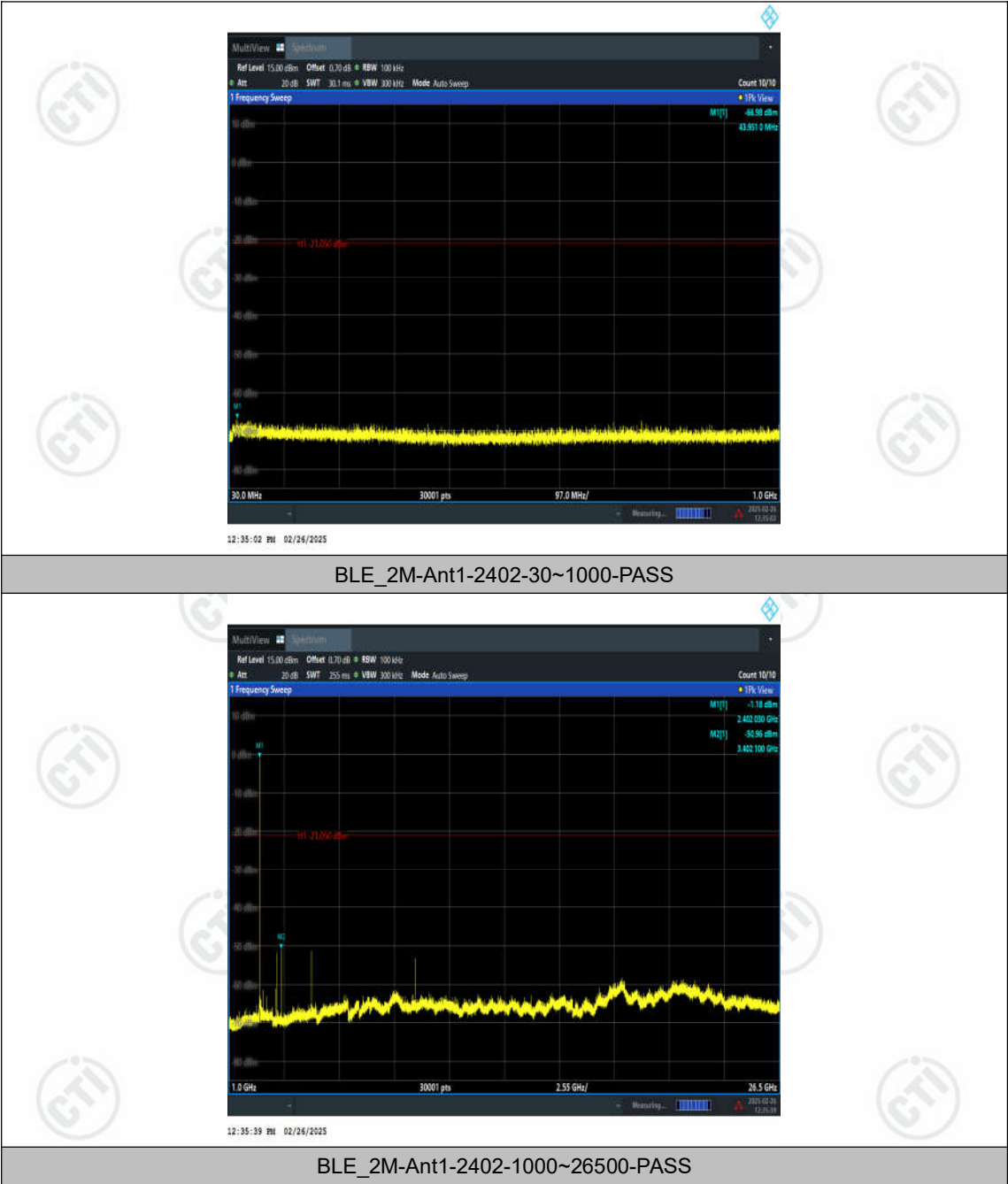


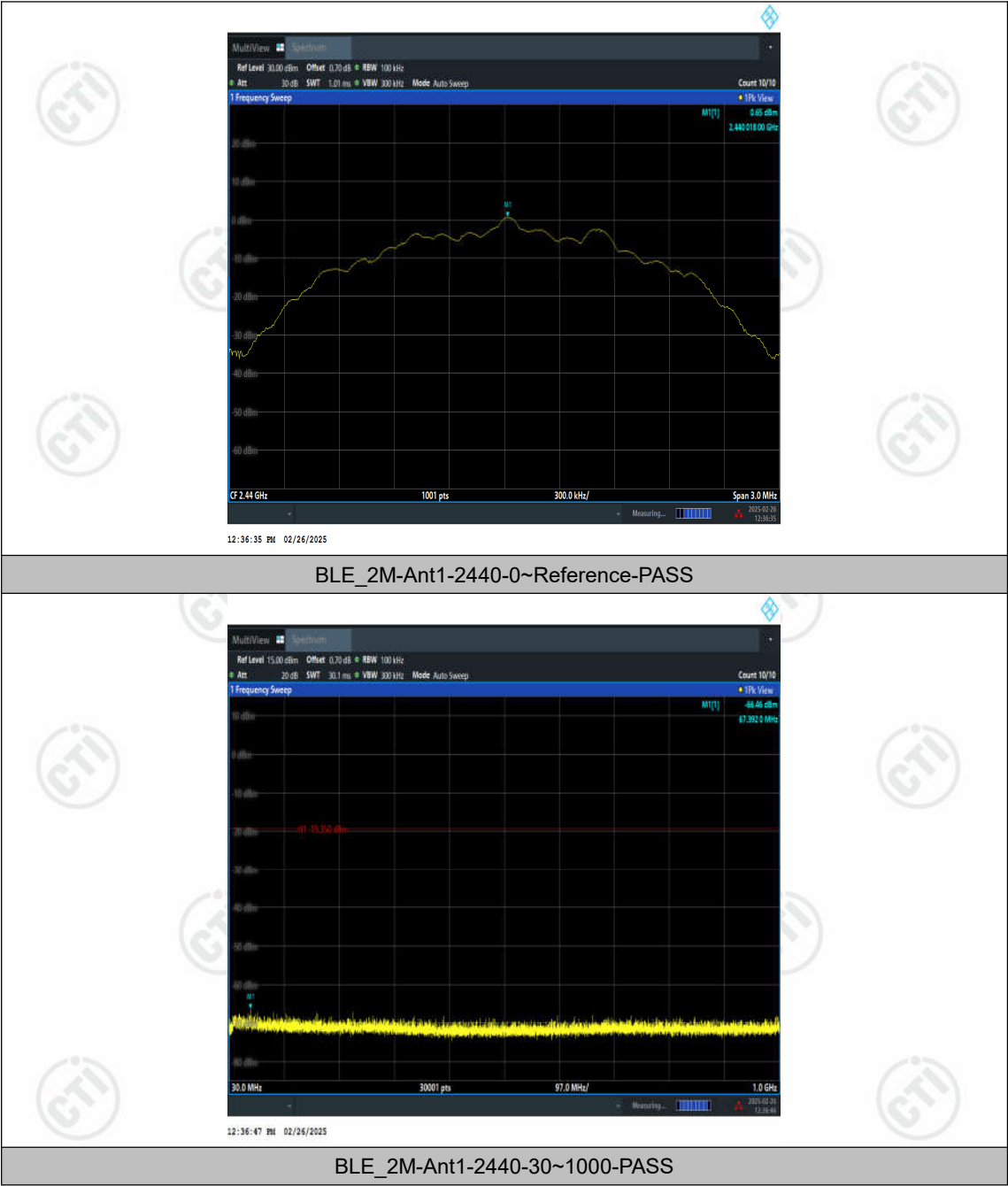


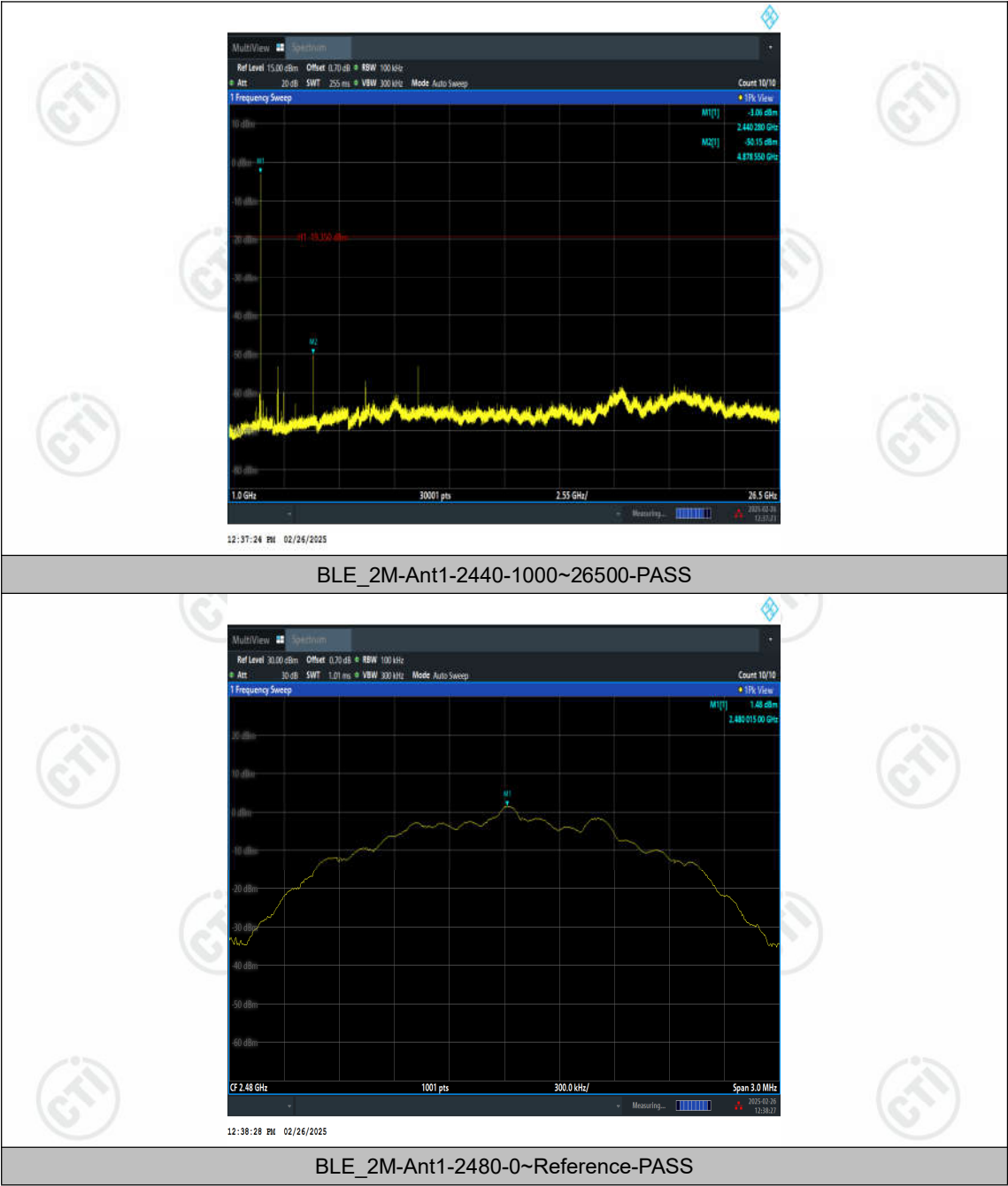


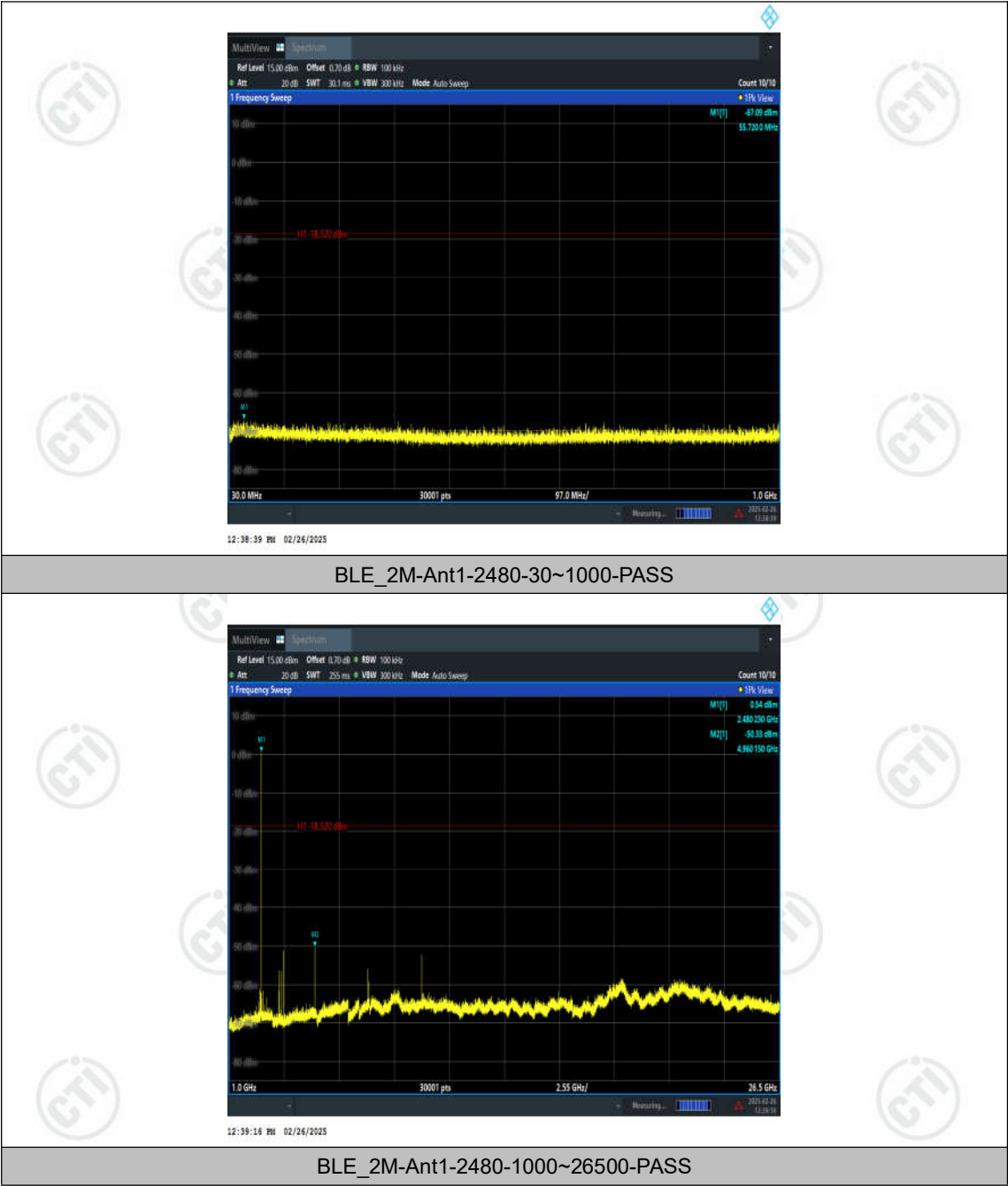












BLE_2M-Ant1-2480-30~1000-PASS

BLE_2M-Ant1-2480-1000~26500-PASS

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	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.51	83.67	0.77
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2480	1.06	1.88	56.38	2.49

Test Graphs







END OF REPORT