

Appendix: Bluetooth LE

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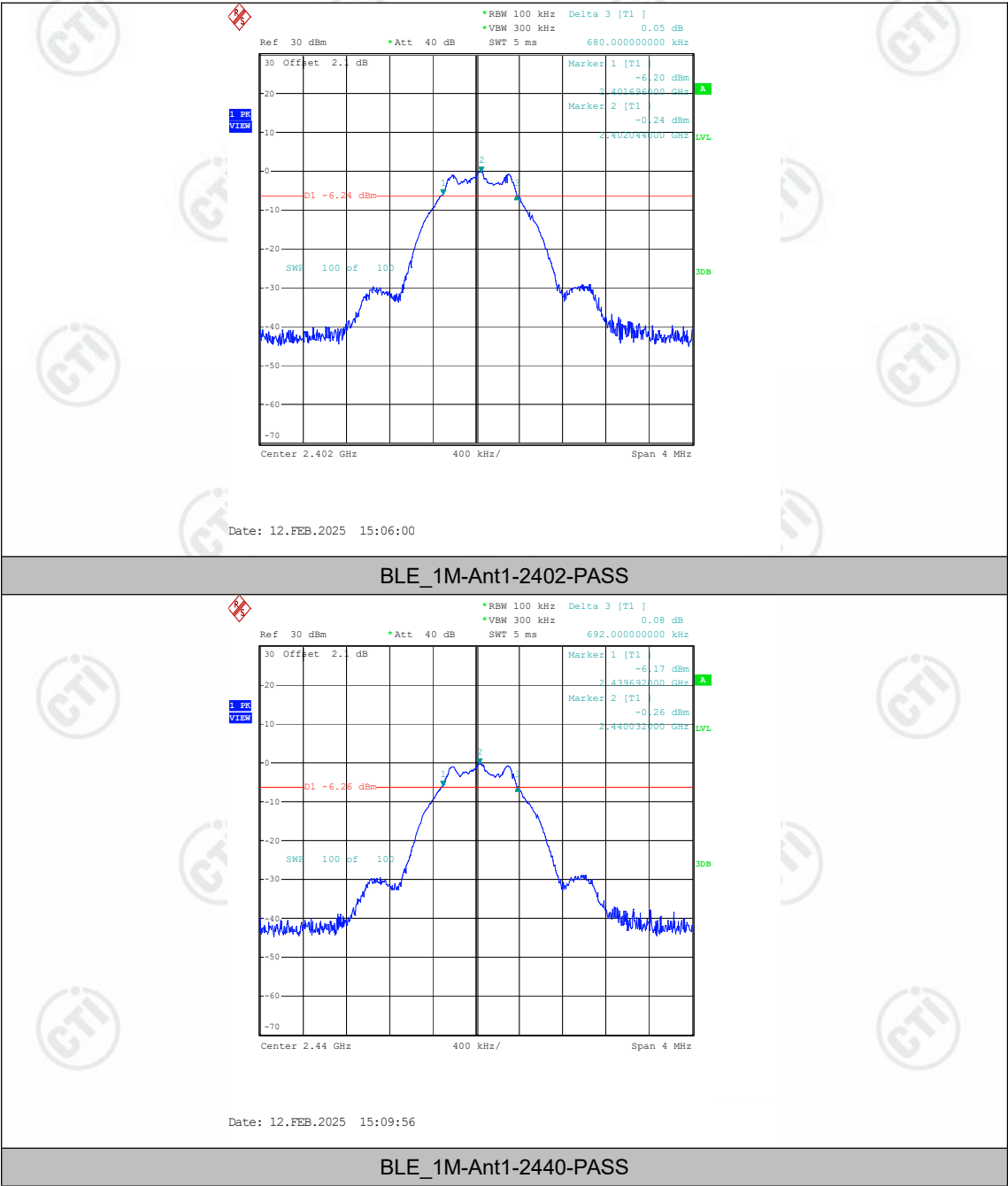
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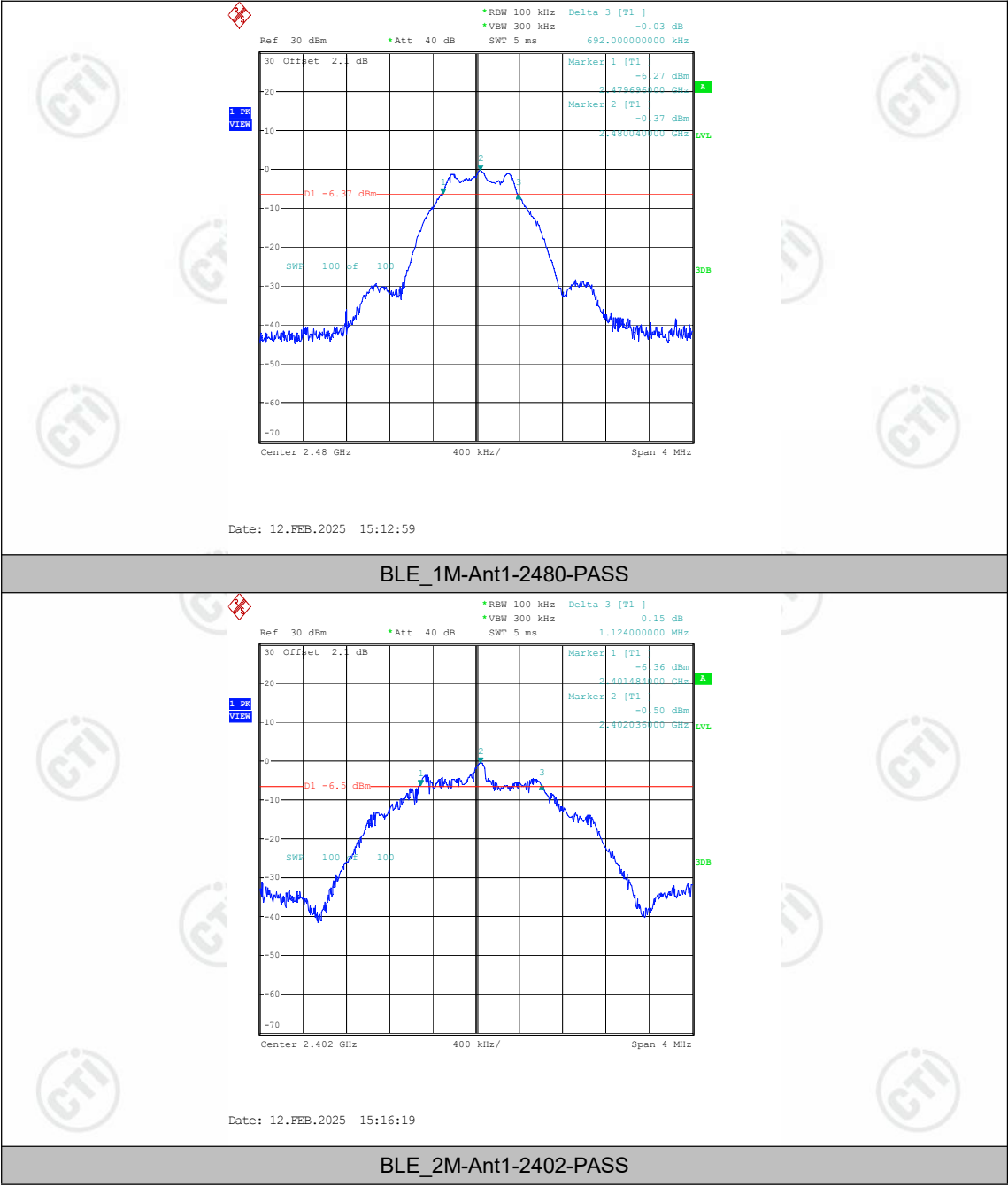
Appendix A: DTS Bandwidth

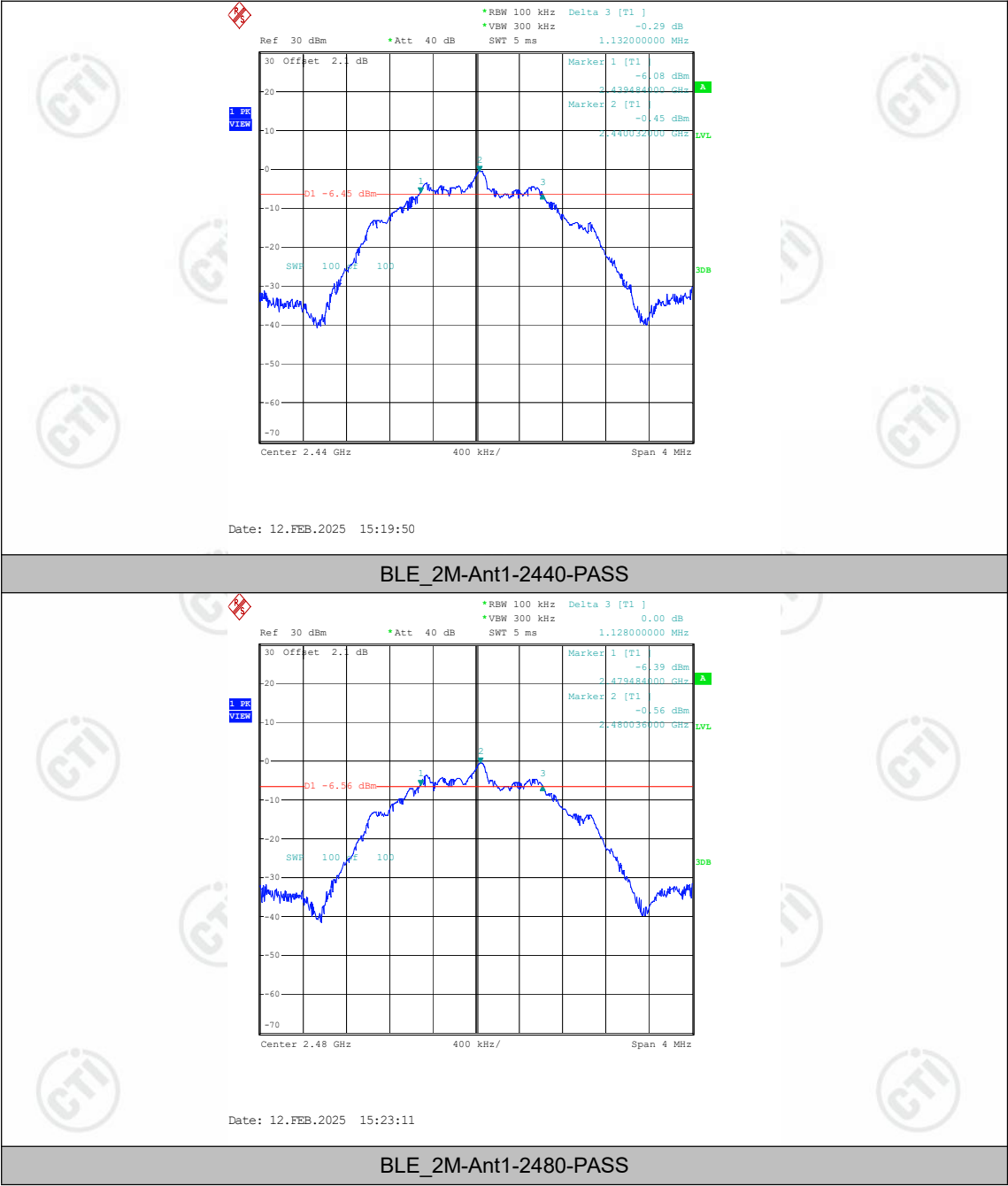
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.70	2402.38	0.5	PASS
BLE_1M	Ant1	2440	0.69	2439.69	2440.38	0.5	PASS
BLE_1M	Ant1	2480	0.69	2479.70	2480.39	0.5	PASS
BLE_2M	Ant1	2402	1.12	2401.48	2402.61	0.5	PASS
BLE_2M	Ant1	2440	1.13	2439.48	2440.62	0.5	PASS
BLE_2M	Ant1	2480	1.13	2479.48	2480.61	0.5	PASS

Test Graphs





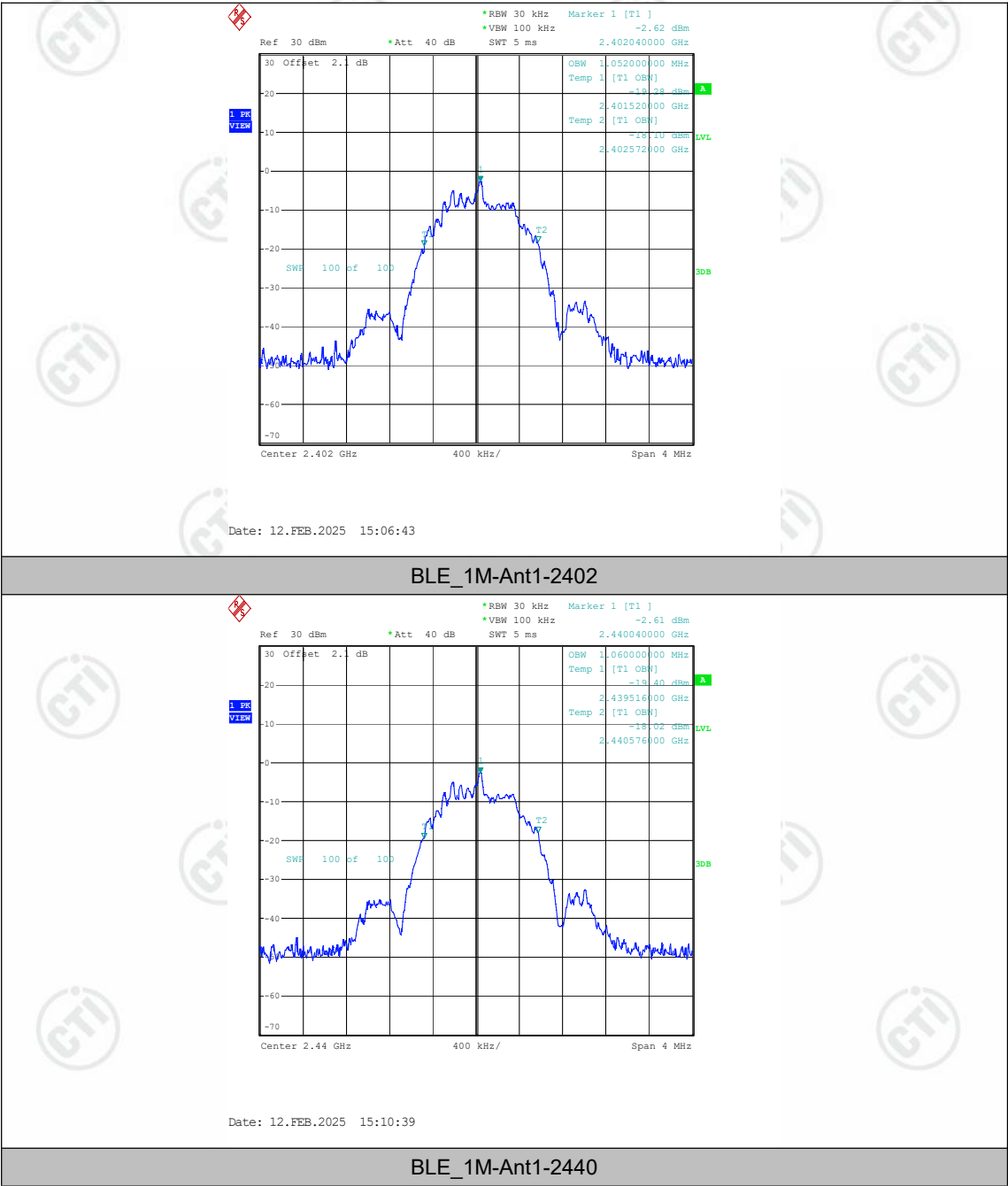


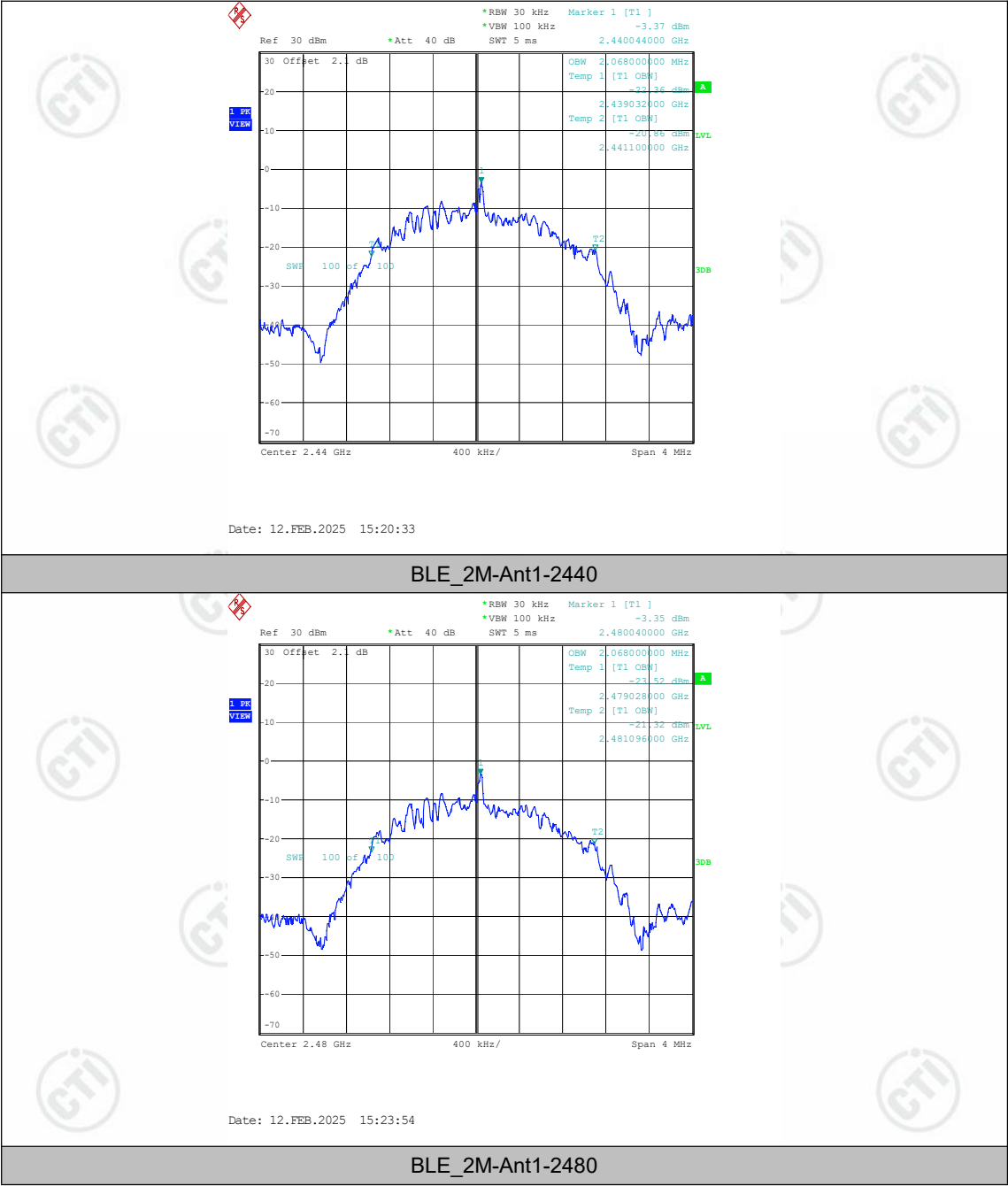
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.052	2401.520	2402.572	---	---
BLE_1M	Ant1	2440	1.06	2439.516	2440.576	---	---
BLE_1M	Ant1	2480	1.06	2479.516	2480.576	---	---
BLE_2M	Ant1	2402	2.064	2401.032	2403.096	---	---
BLE_2M	Ant1	2440	2.068	2439.032	2441.100	---	---
BLE_2M	Ant1	2480	2.068	2479.028	2481.096	---	---

Test Graphs





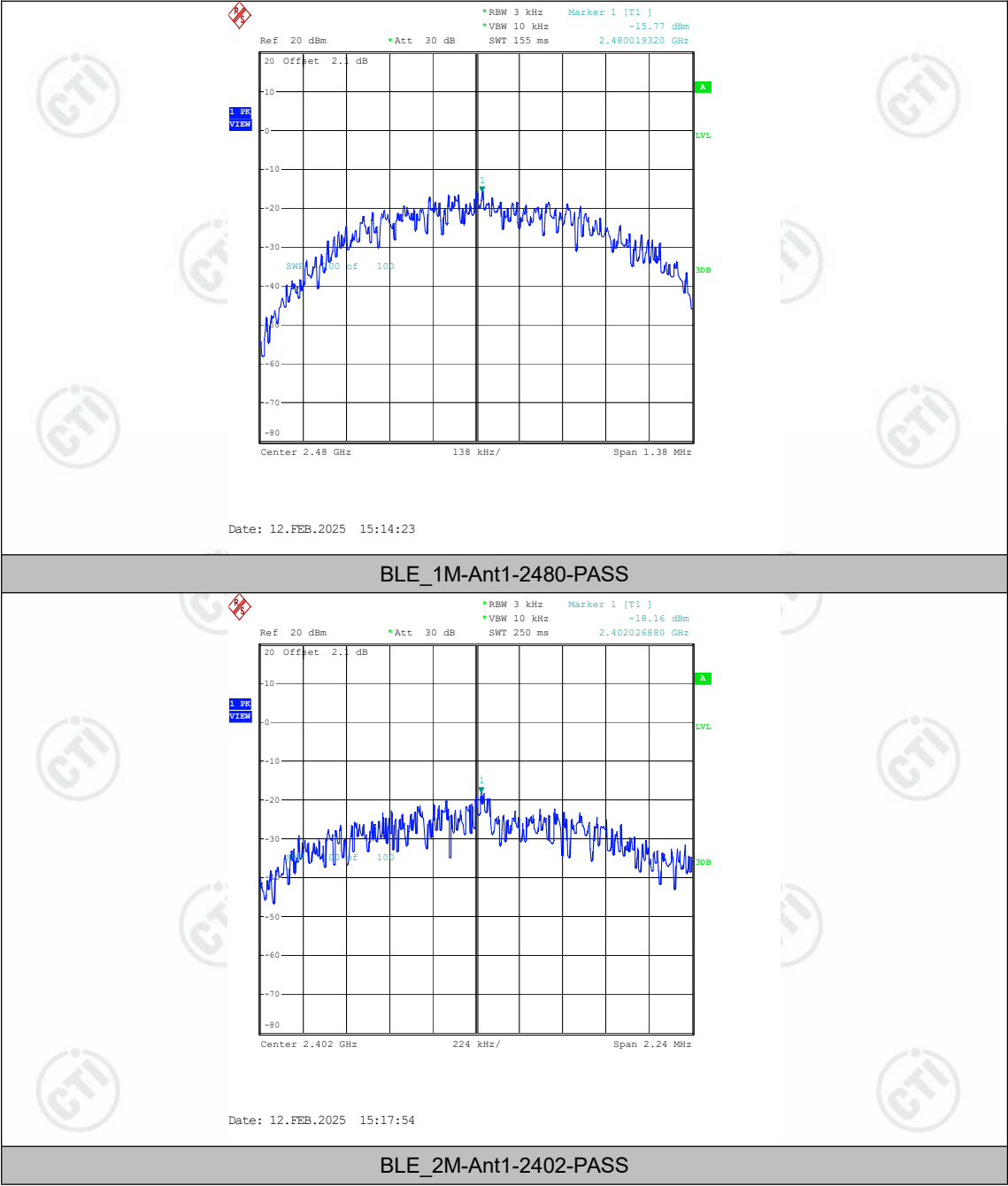
Appendix C: Maximum conducted output power**Test Result Peak**

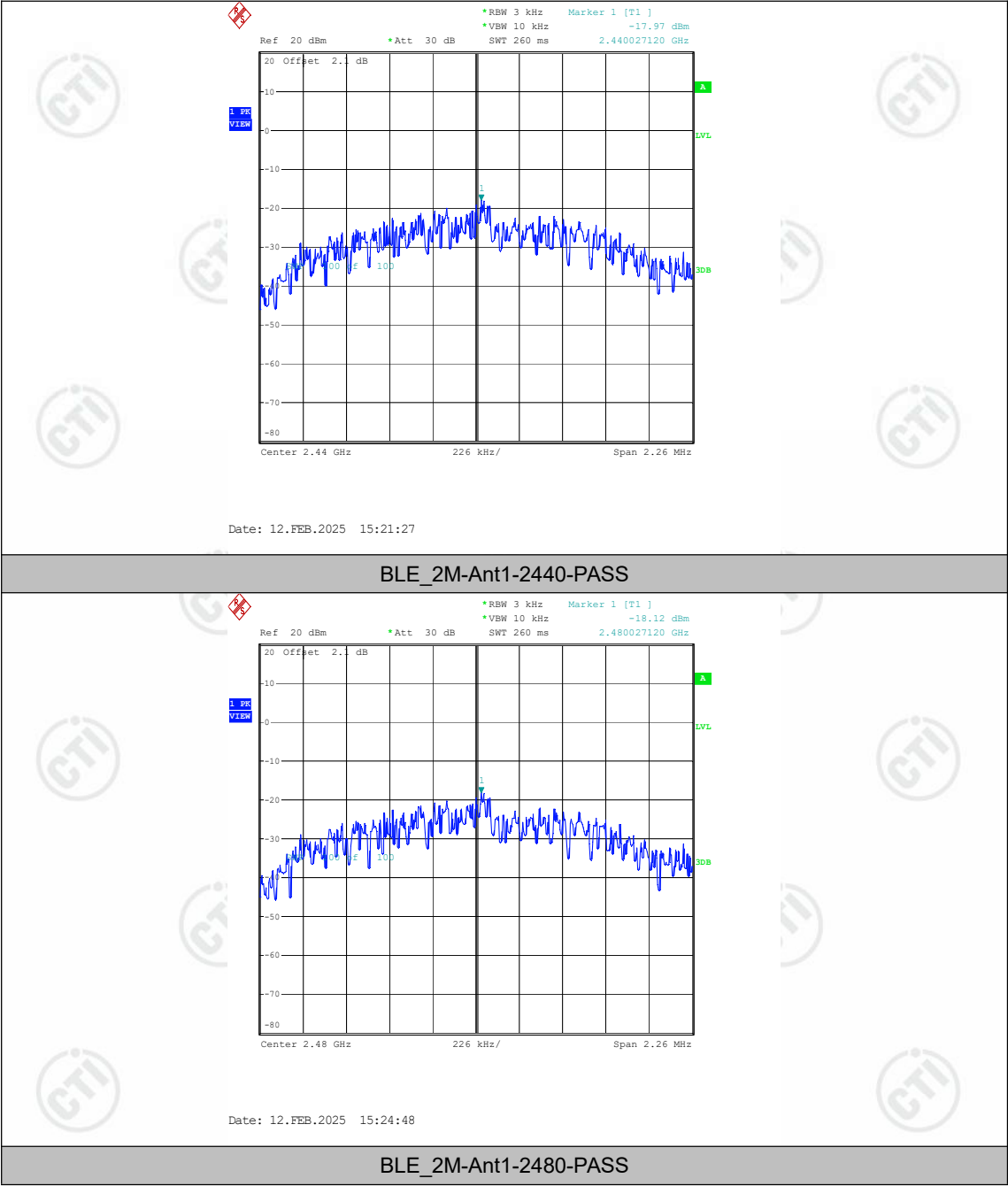
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.44	≤30	PASS
BLE_1M	Ant1	2440	0.42	≤30	PASS
BLE_1M	Ant1	2480	0.30	≤30	PASS
BLE_2M	Ant1	2402	0.17	≤30	PASS
BLE_2M	Ant1	2440	0.24	≤30	PASS
BLE_2M	Ant1	2480	0.10	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.62	≤8.00	PASS
BLE_1M	Ant1	2440	-15.60	≤8.00	PASS
BLE_1M	Ant1	2480	-15.77	≤8.00	PASS
BLE_2M	Ant1	2402	-18.16	≤8.00	PASS
BLE_2M	Ant1	2440	-17.97	≤8.00	PASS
BLE_2M	Ant1	2480	-18.12	≤8.00	PASS



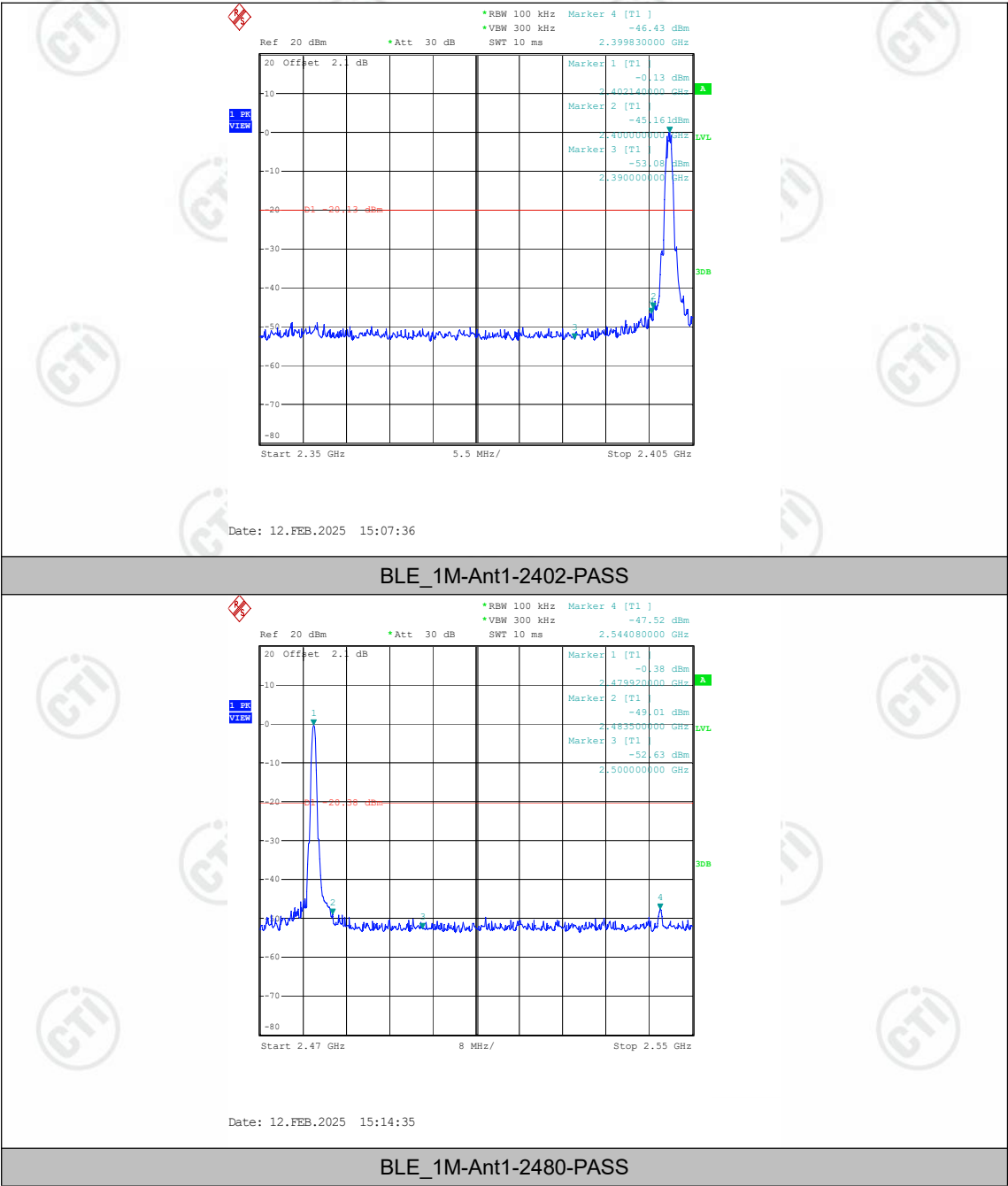


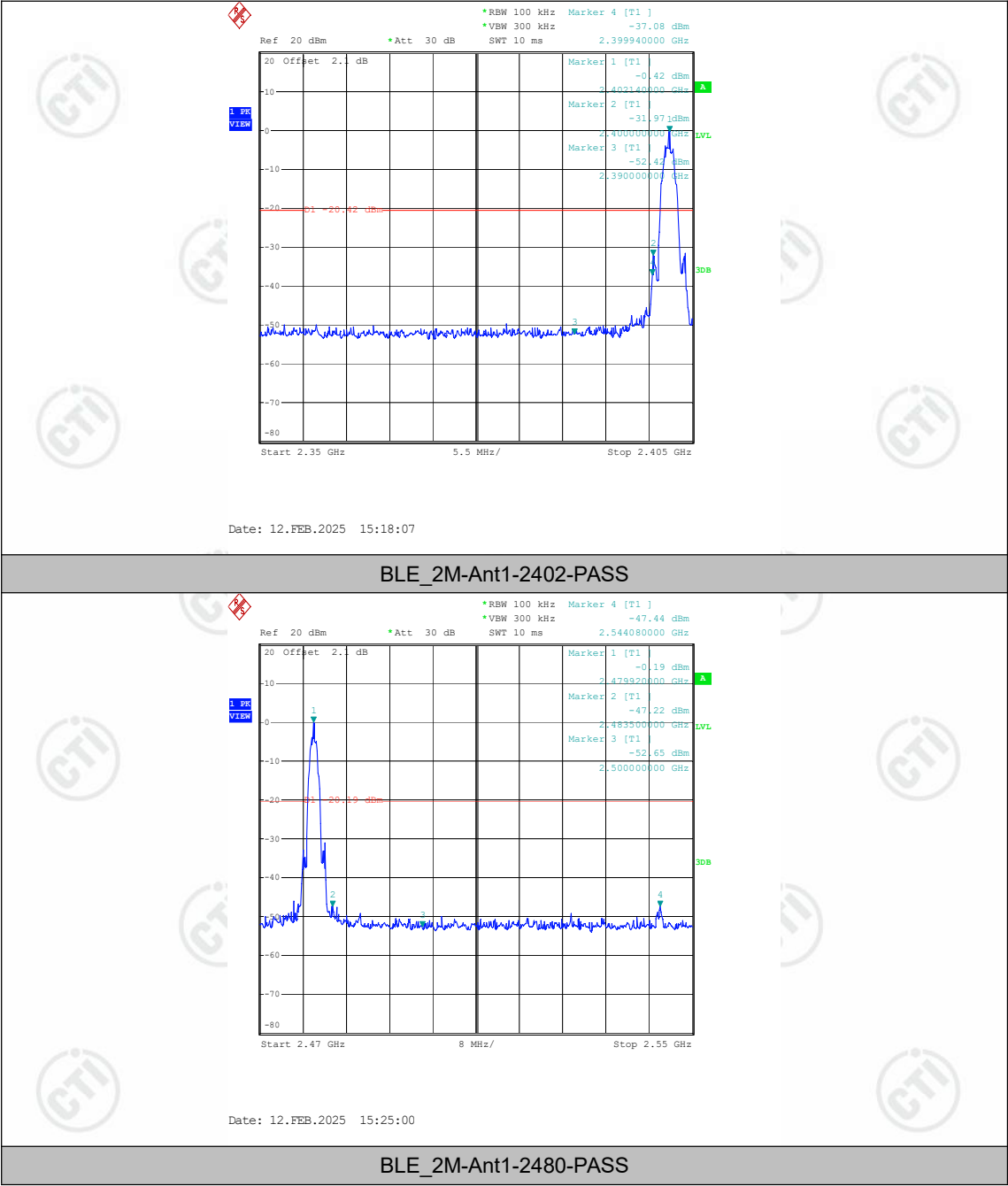
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.13	-46.43	≤-20.13	PASS
BLE_1M	Ant1	High	2480	-0.38	-47.52	≤-20.38	PASS
BLE_2M	Ant1	Low	2402	-0.42	-37.08	≤-20.42	PASS
BLE_2M	Ant1	High	2480	-0.19	-47.44	≤-20.19	PASS

Test Graphs

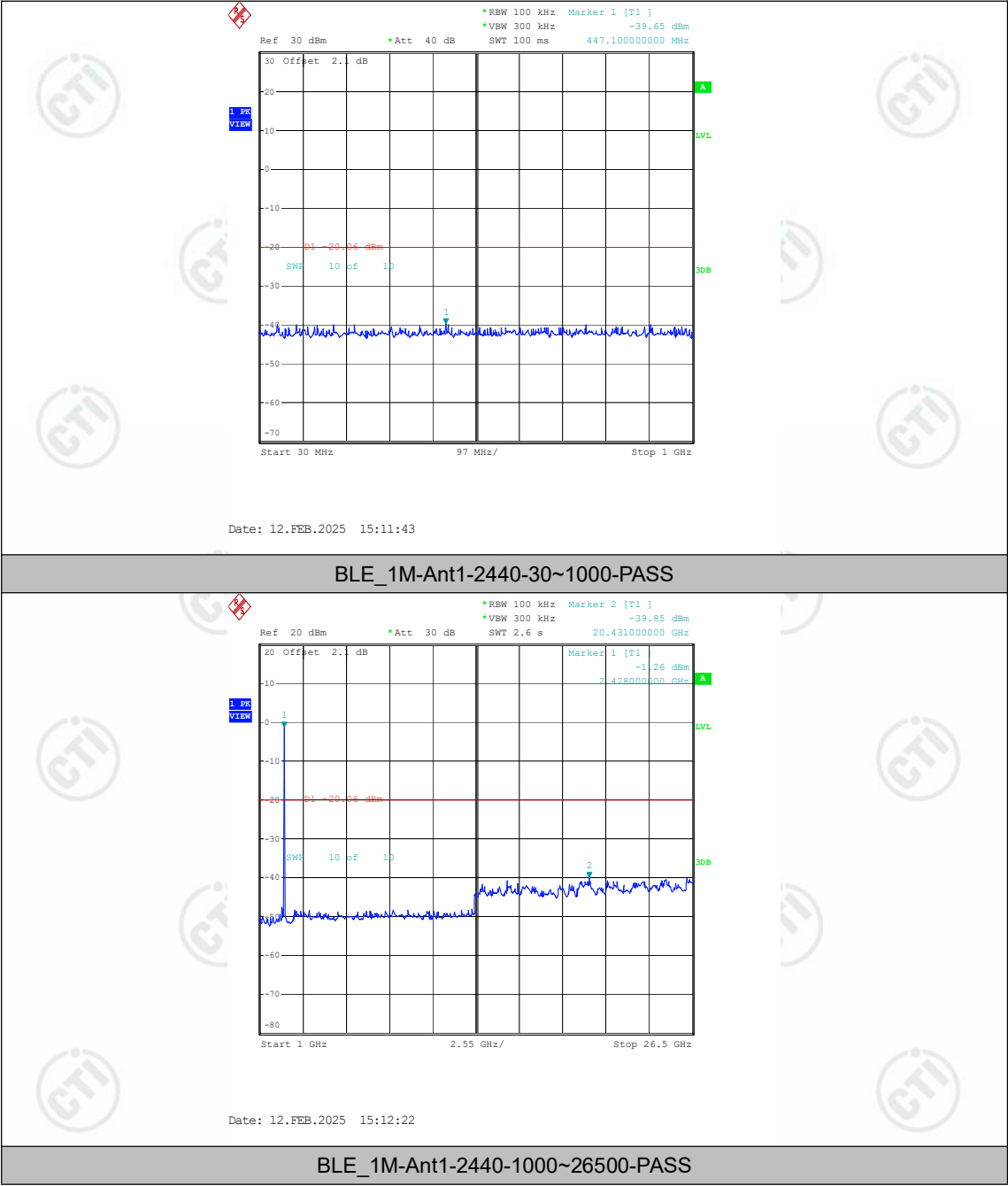


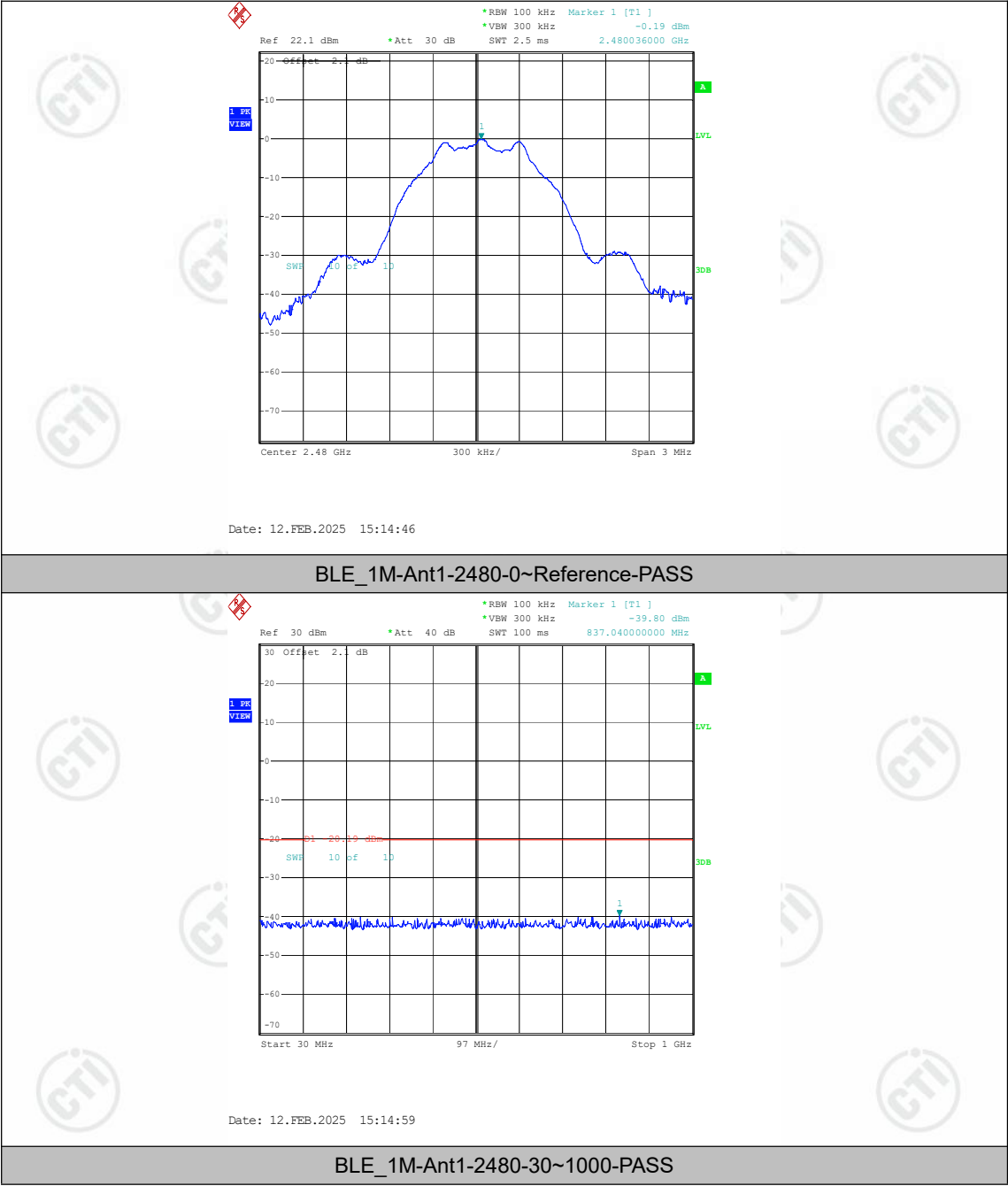


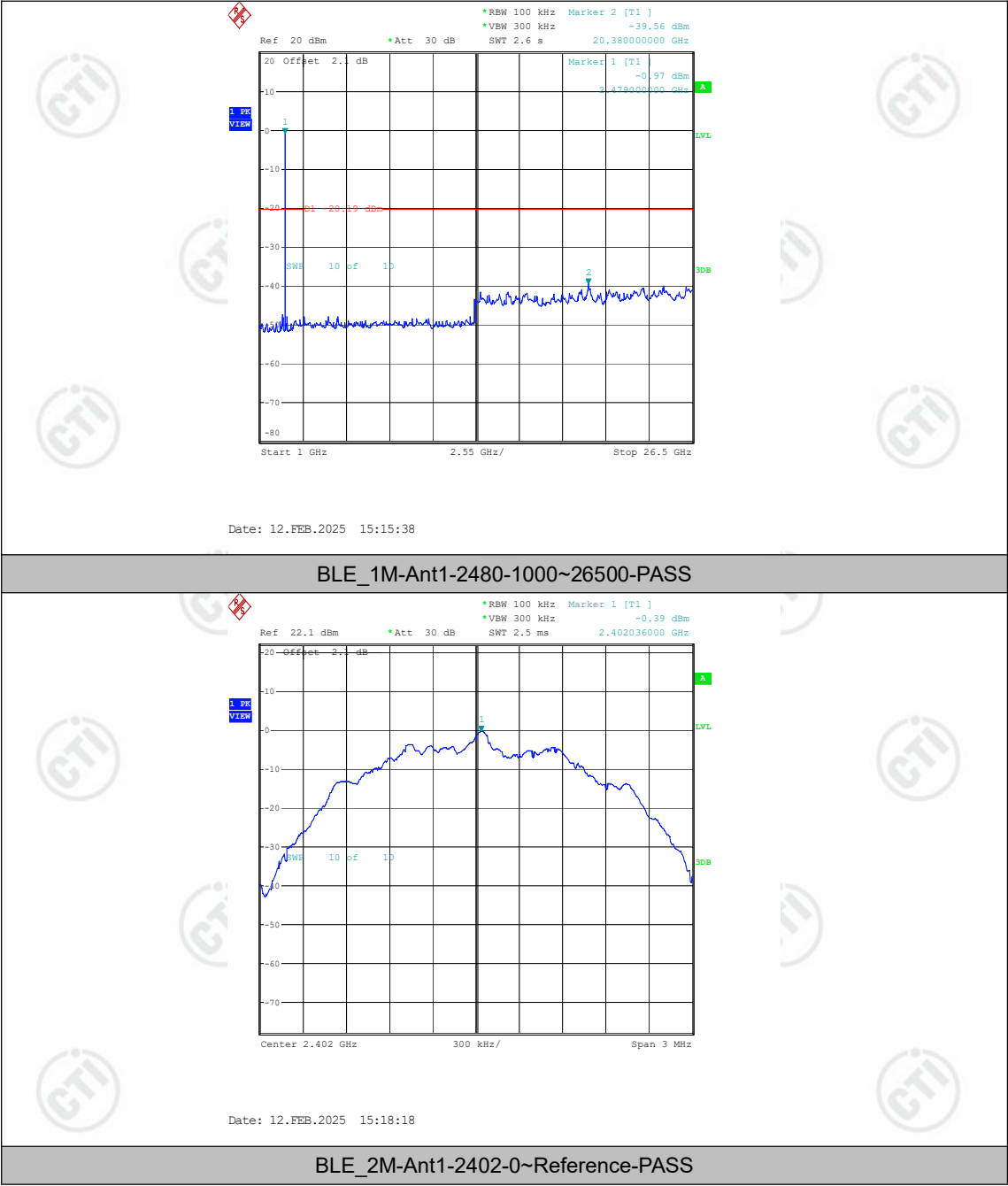
Appendix F: Conducted Spurious Emission

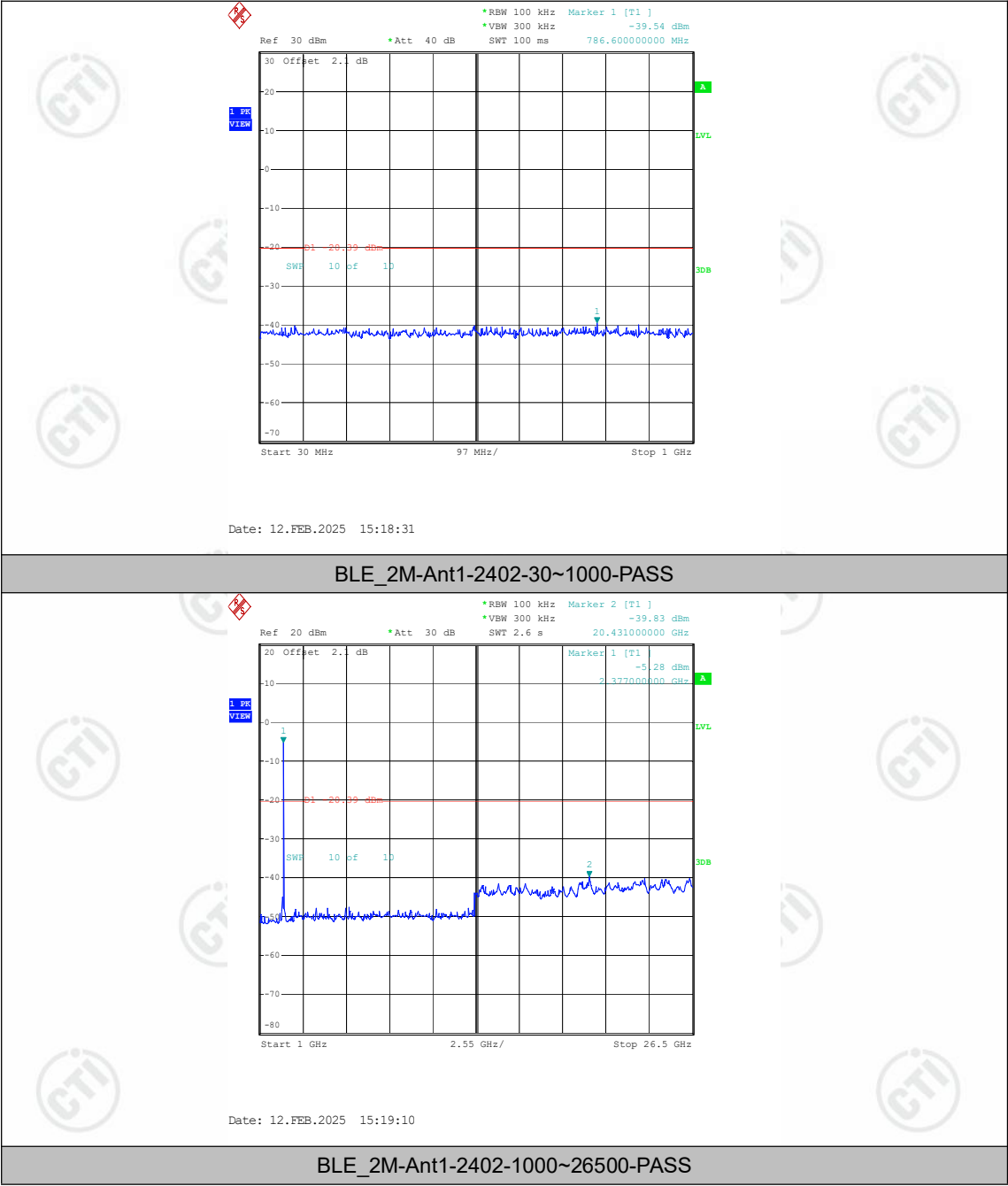
Test Result

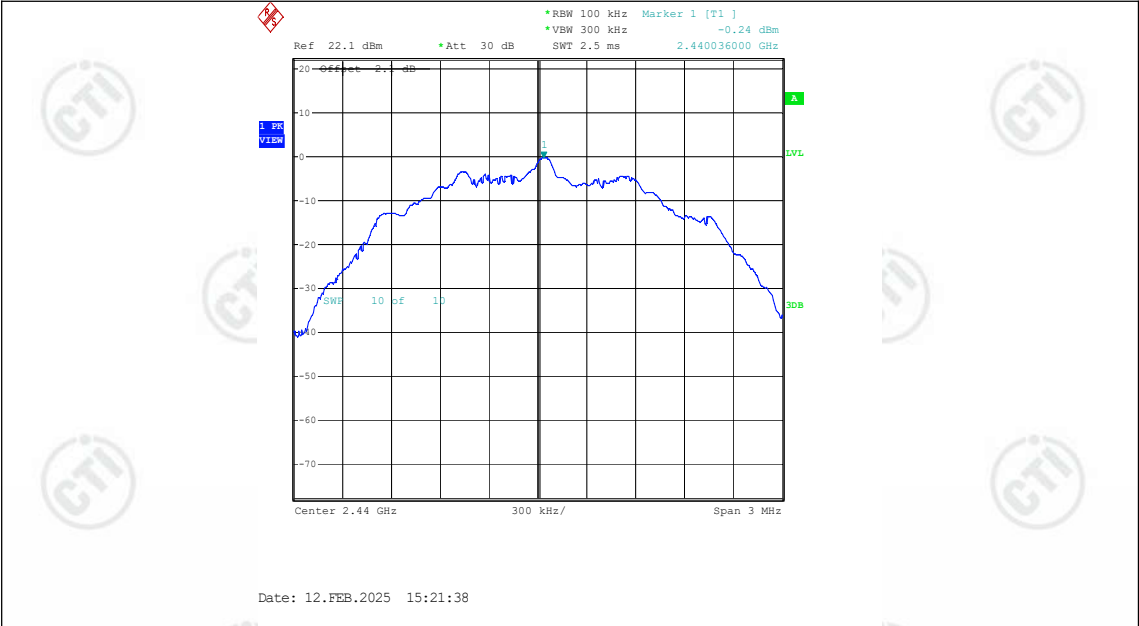
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.12	-0.12	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.12	-39.4	≤-20.12	PASS
BLE_1M	Ant1	2402	1000~26500	-0.12	-40.13	≤-20.12	PASS
BLE_1M	Ant1	2440	0~Reference	-0.06	-0.06	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.06	-39.65	≤-20.06	PASS
BLE_1M	Ant1	2440	1000~26500	-0.06	-39.85	≤-20.06	PASS
BLE_1M	Ant1	2480	0~Reference	-0.19	-0.19	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.19	-39.8	≤-20.19	PASS
BLE_1M	Ant1	2480	1000~26500	-0.19	-39.56	≤-20.19	PASS
BLE_2M	Ant1	2402	0~Reference	-0.39	-0.39	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.39	-39.54	≤-20.39	PASS
BLE_2M	Ant1	2402	1000~26500	-0.39	-39.83	≤-20.39	PASS
BLE_2M	Ant1	2440	0~Reference	-0.24	-0.24	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.24	-39.38	≤-20.24	PASS
BLE_2M	Ant1	2440	1000~26500	-0.24	-39.92	≤-20.24	PASS
BLE_2M	Ant1	2480	0~Reference	-0.37	-0.37	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.37	-40	≤-20.37	PASS
BLE_2M	Ant1	2480	1000~26500	-0.37	-39.4	≤-20.37	PASS



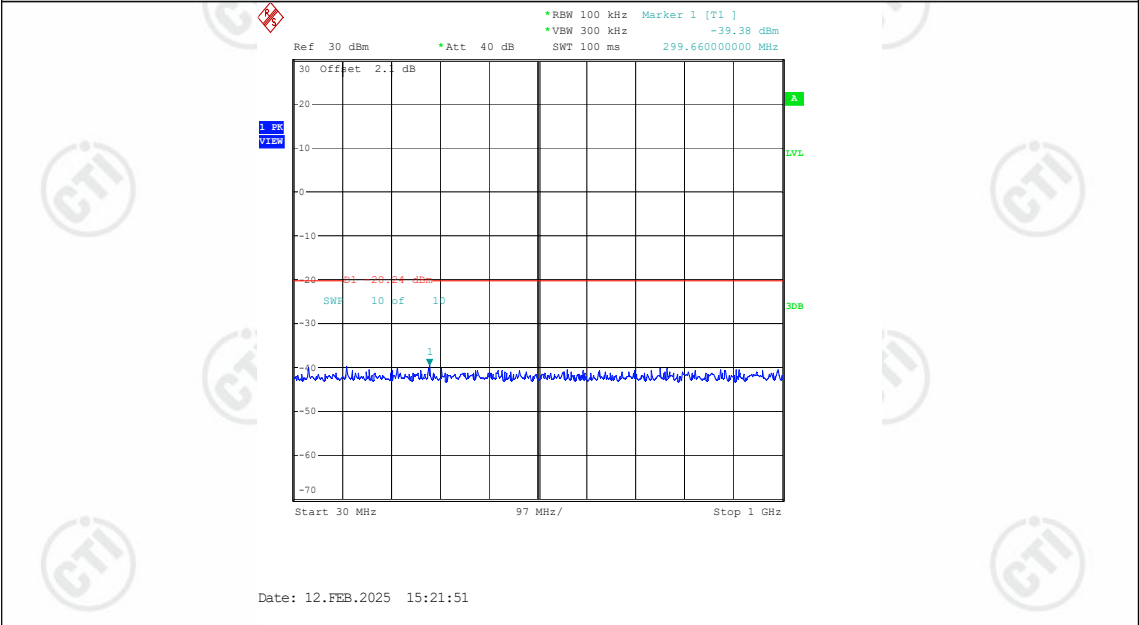




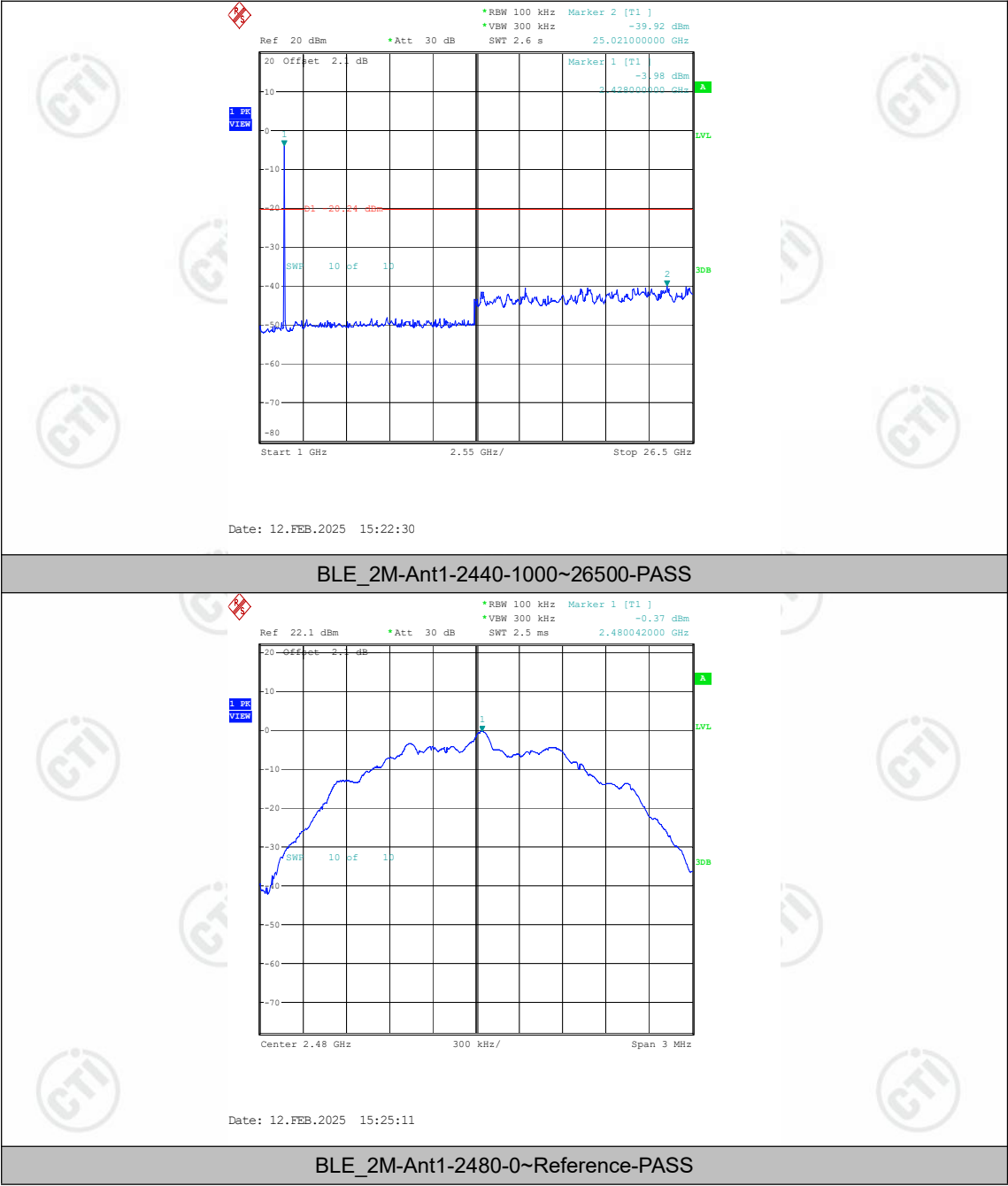


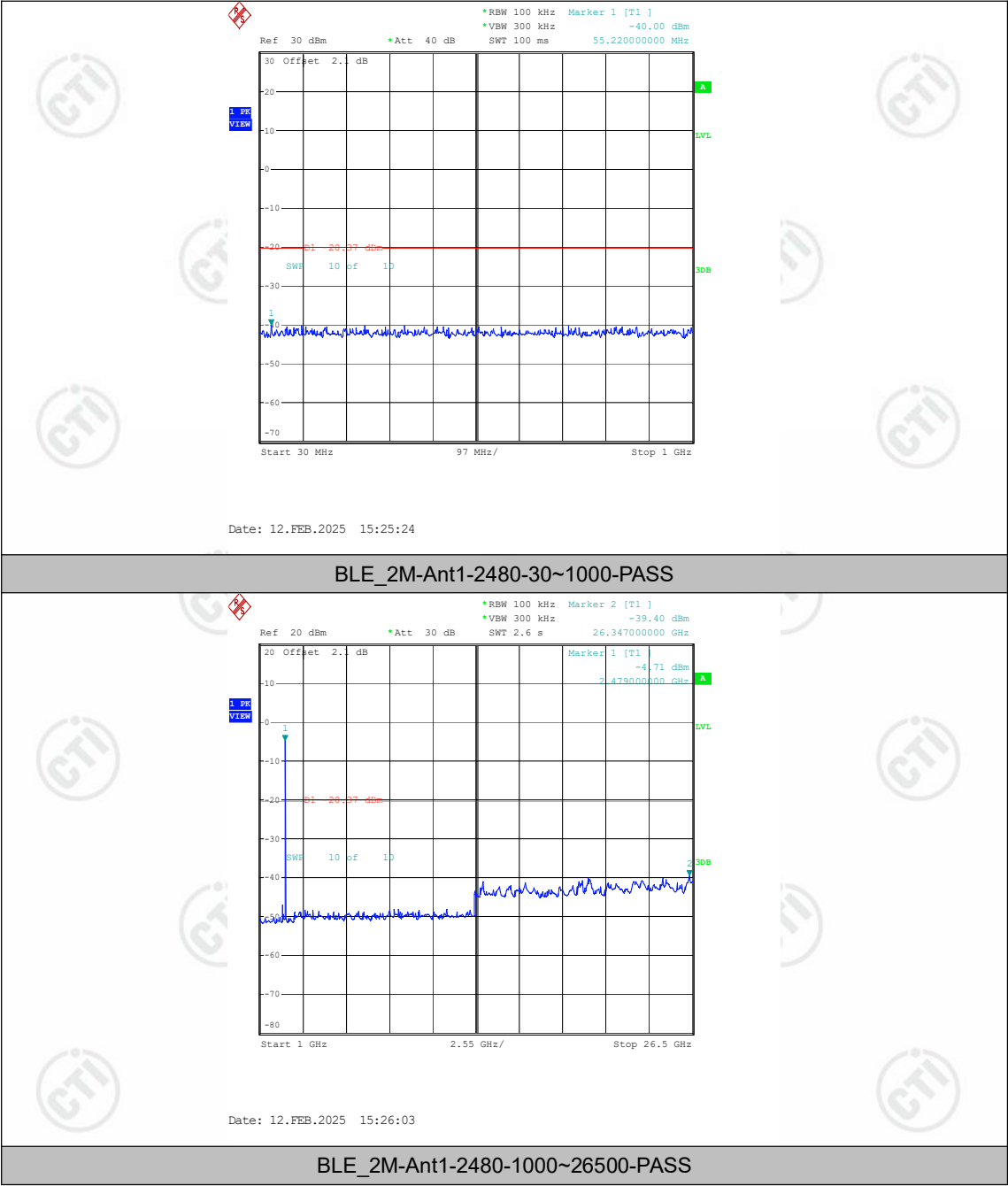


BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



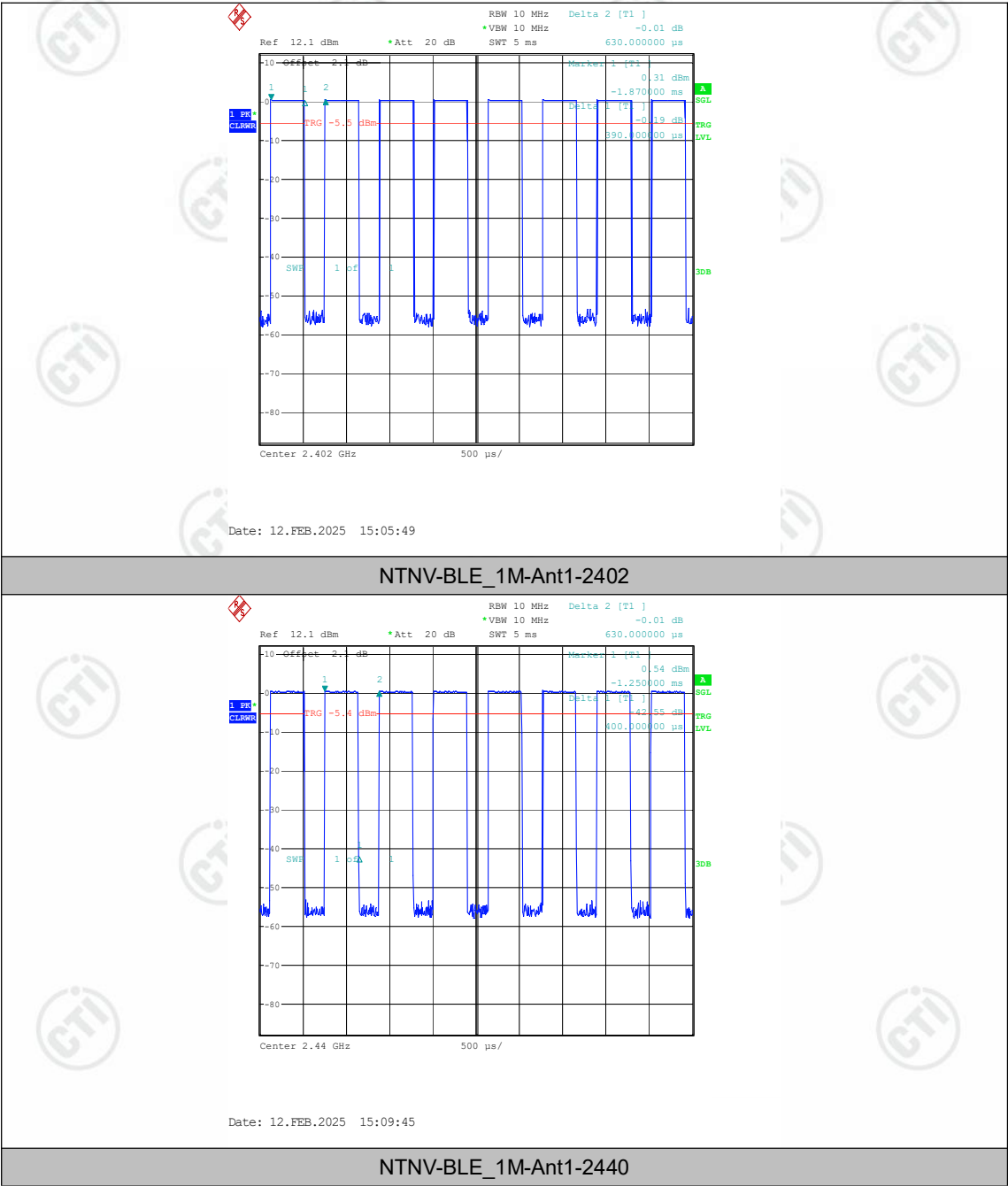


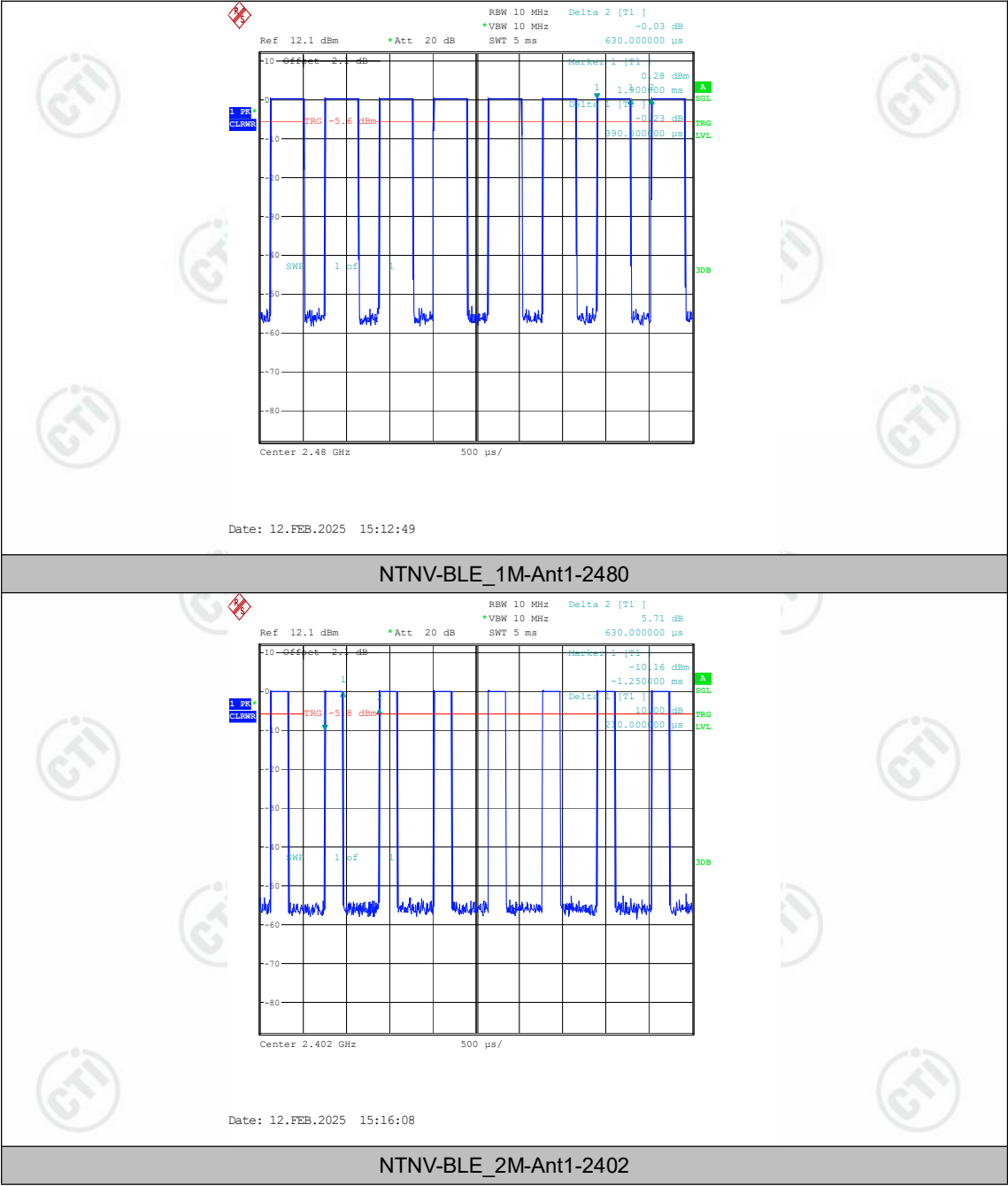
Appendix G: Duty Cycle

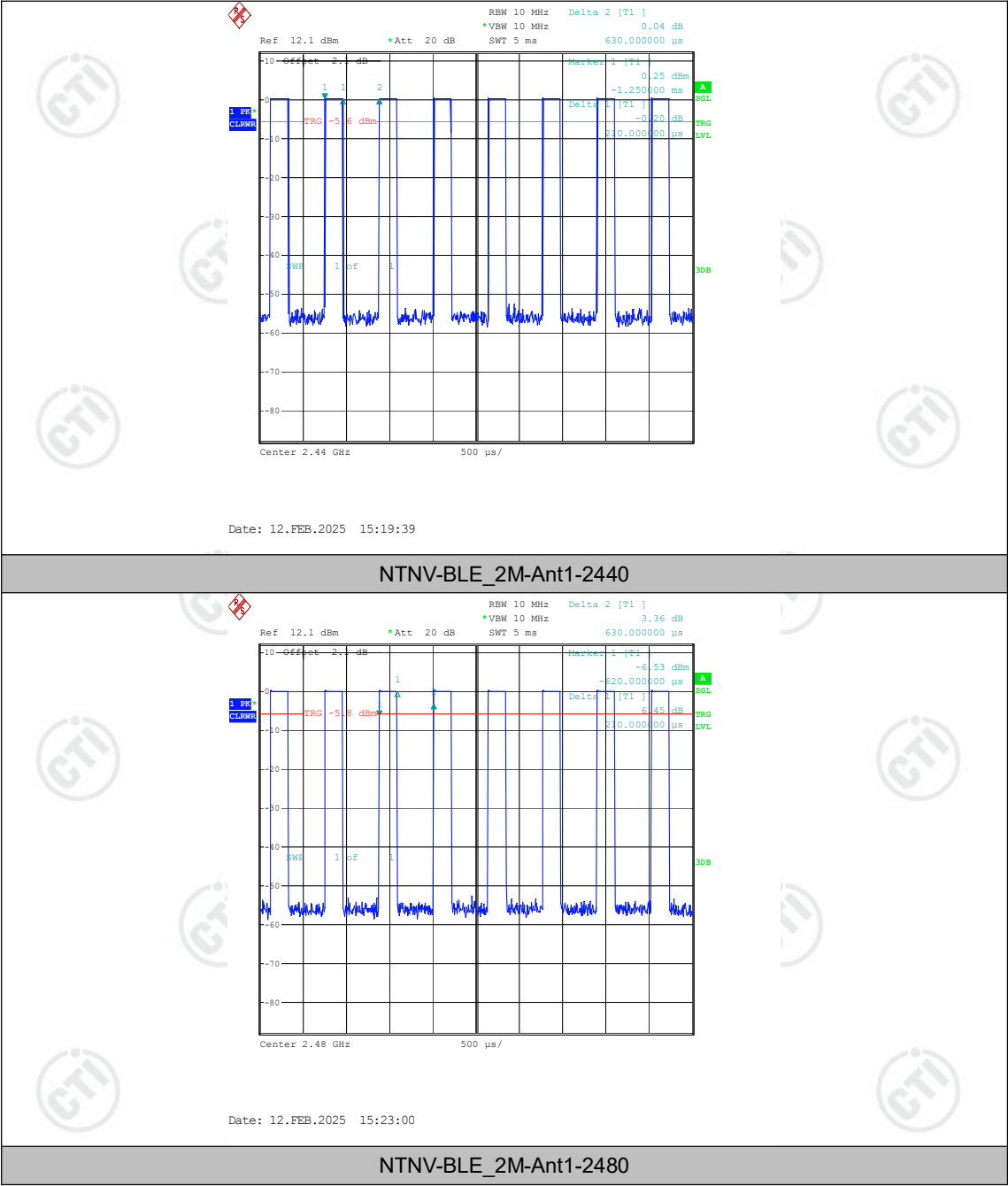
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.21	0.63	33.33	4.77

Test Graphs







END OF REPORT