

Appendix: Bluetooth LE

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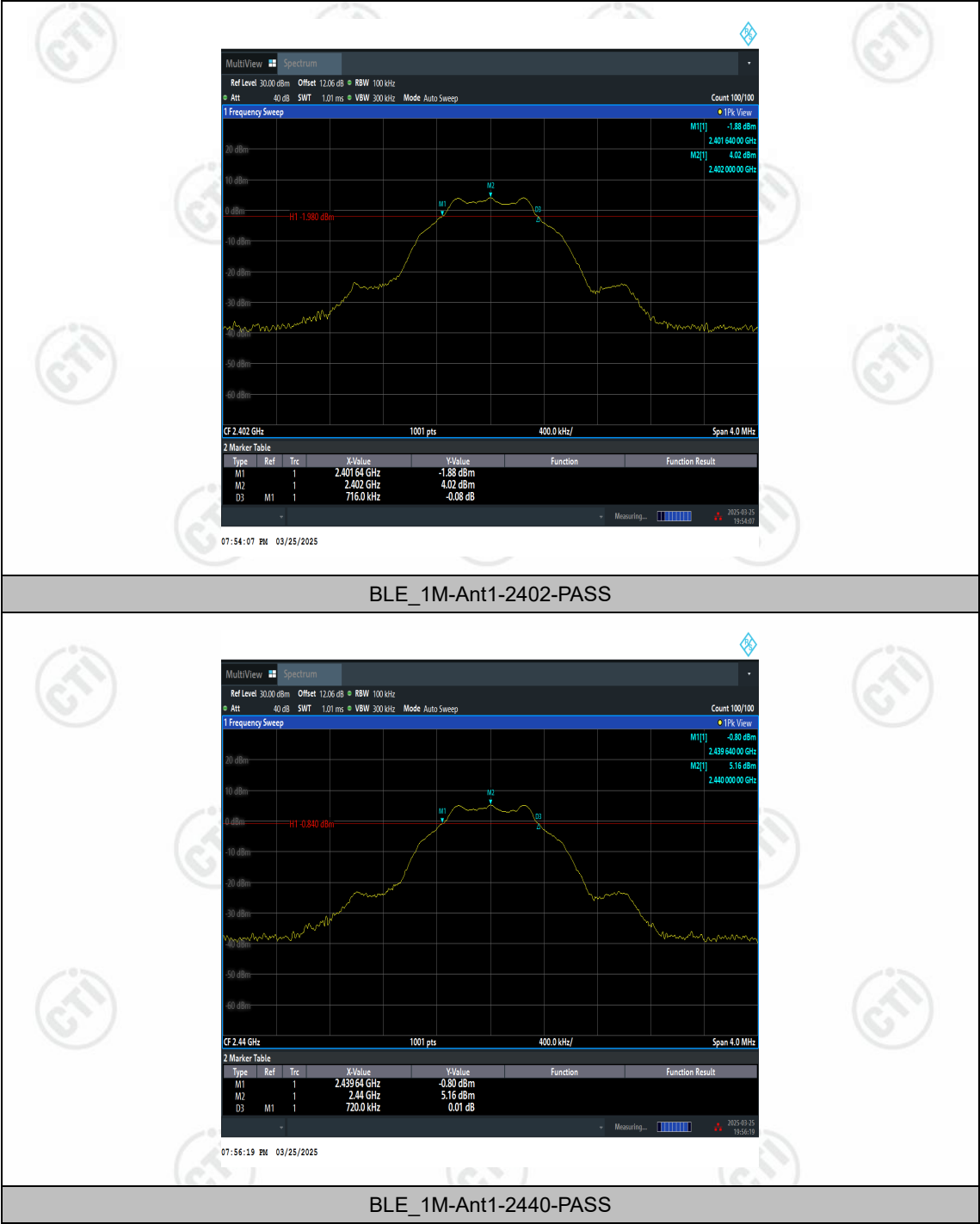
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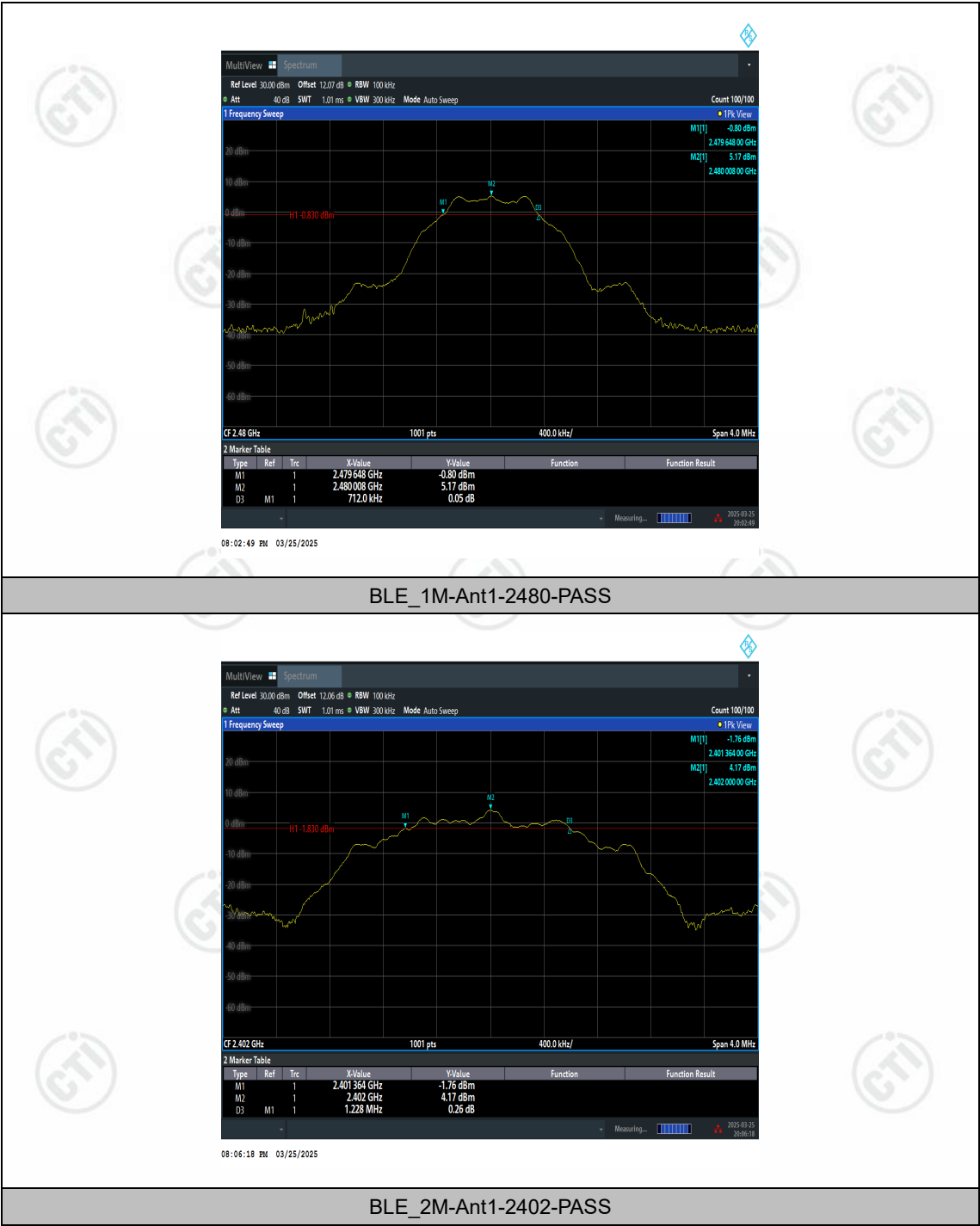
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.72	2401.64	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.72	2439.64	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.71	2479.65	2480.36	0.5	PASS
BLE_2M	Ant1	2402	1.23	2401.36	2402.59	0.5	PASS
BLE_2M	Ant1	2440	1.18	2439.41	2440.60	0.5	PASS
BLE_2M	Ant1	2480	1.24	2479.36	2480.60	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	1.065	2401.4735	2402.5386	---	---
BLE_1M	Ant1	2440	1.065	2439.4778	2440.5427	---	---
BLE_1M	Ant1	2480	1.066	2479.4822	2480.5479	---	---
BLE_2M	Ant1	2402	2.088	2400.9704	2403.0582	---	---
BLE_2M	Ant1	2440	2.085	2438.9753	2441.0606	---	---
BLE_2M	Ant1	2480	2.089	2478.9782	2481.0674	---	---

Test Graphs



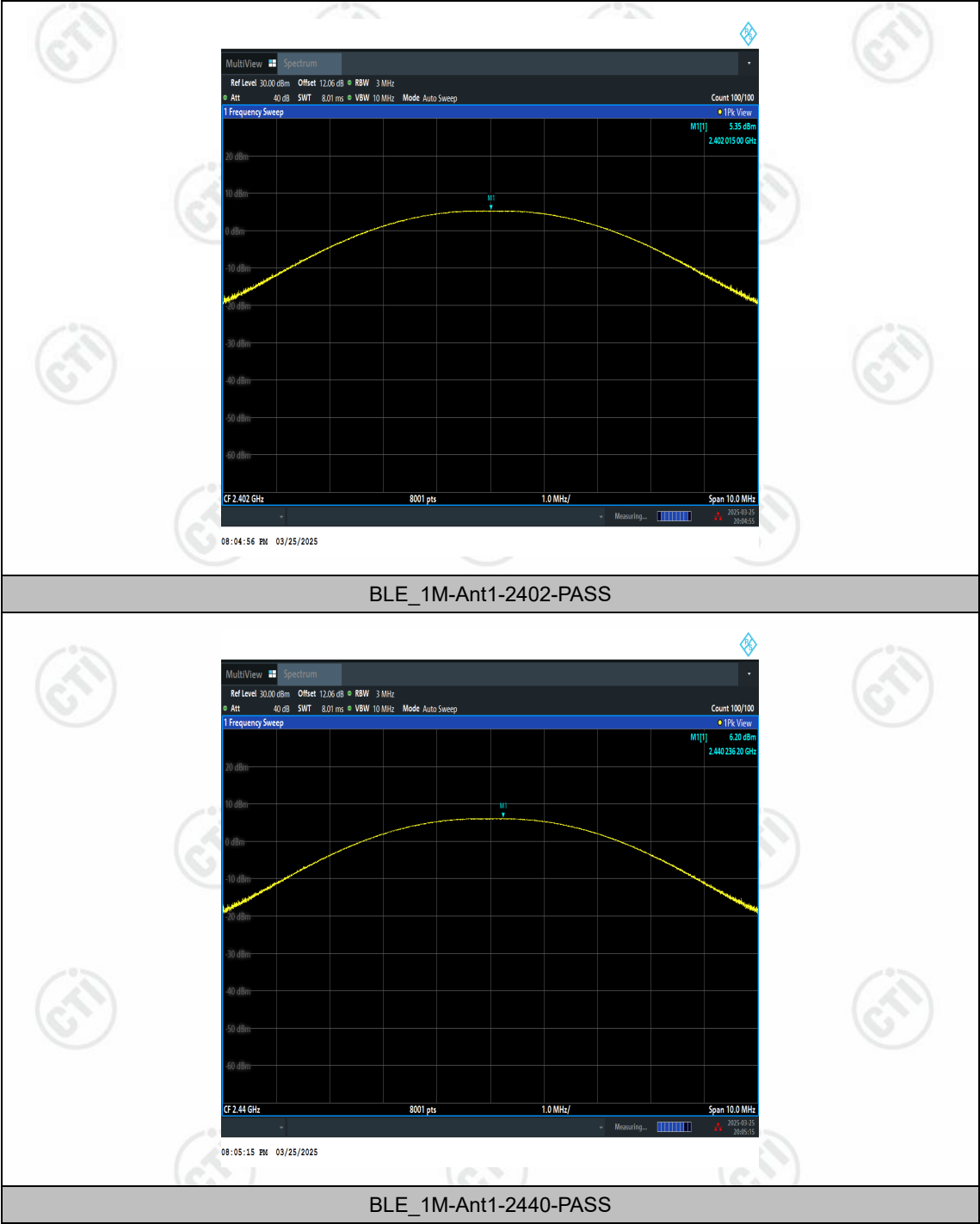


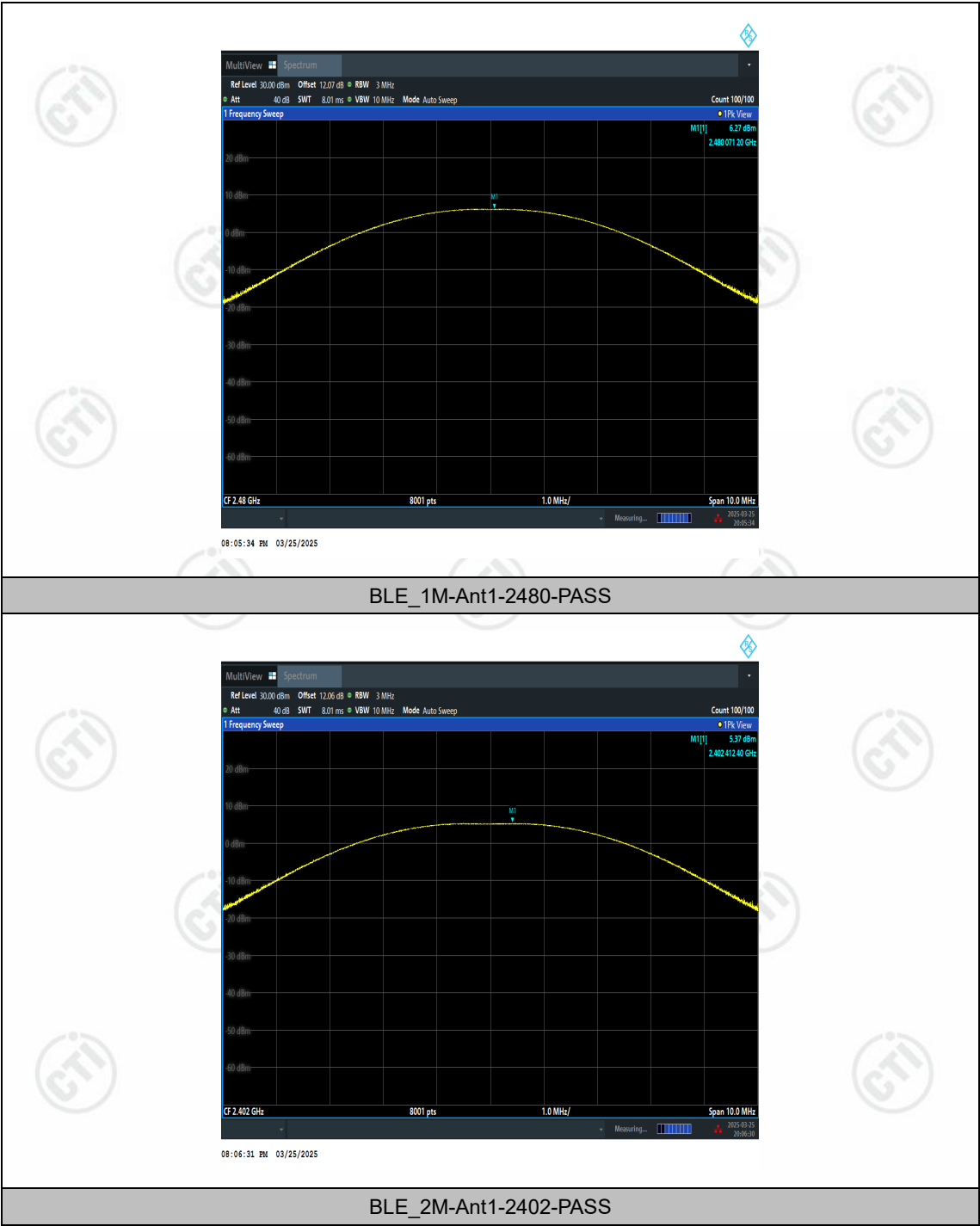


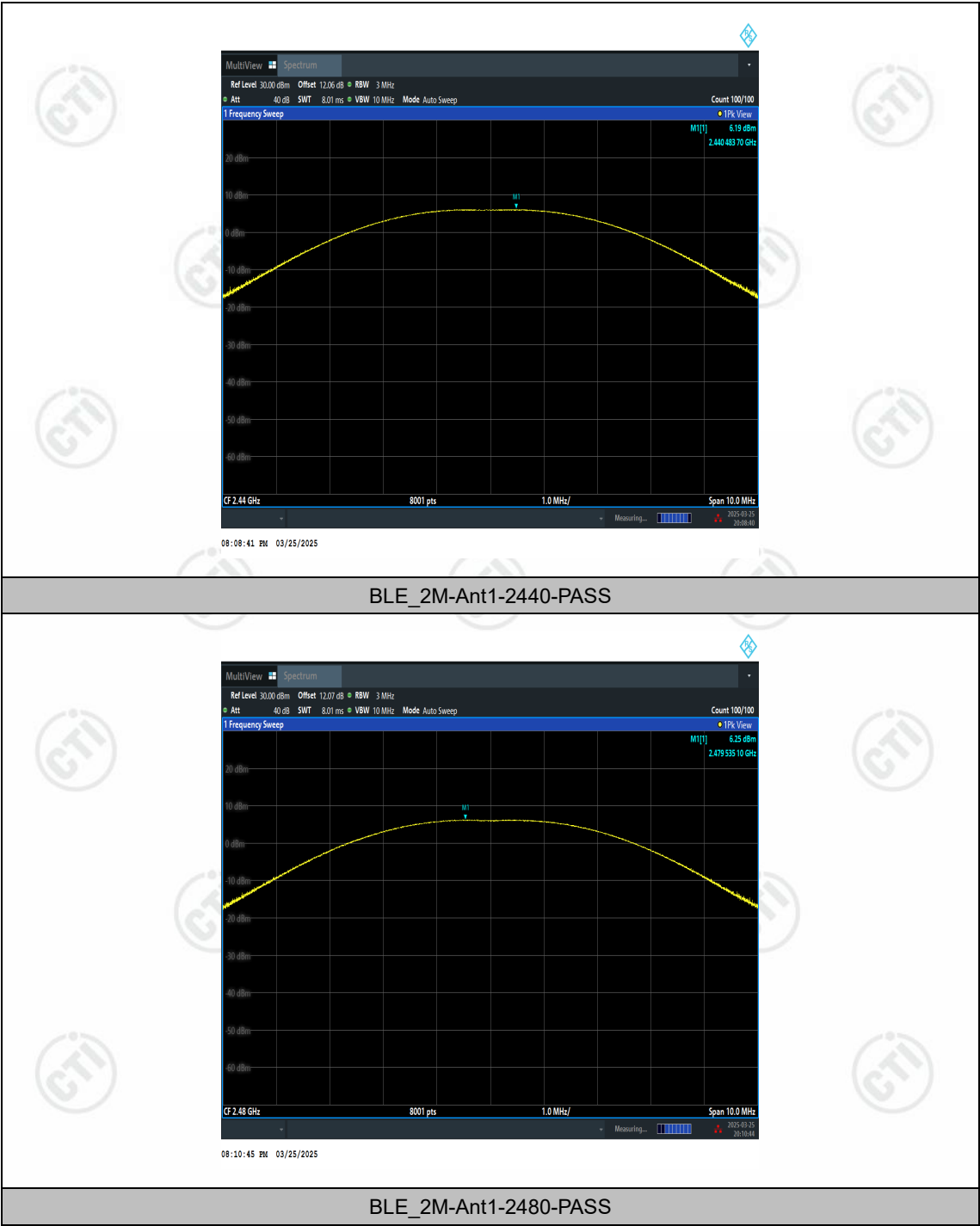
Appendix C: Maximum conducted output power**Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.35	≤30	PASS
BLE_1M	Ant1	2440	6.20	≤30	PASS
BLE_1M	Ant1	2480	6.27	≤30	PASS
BLE_2M	Ant1	2402	5.37	≤30	PASS
BLE_2M	Ant1	2440	6.19	≤30	PASS
BLE_2M	Ant1	2480	6.25	≤30	PASS

Test Graphs Peak





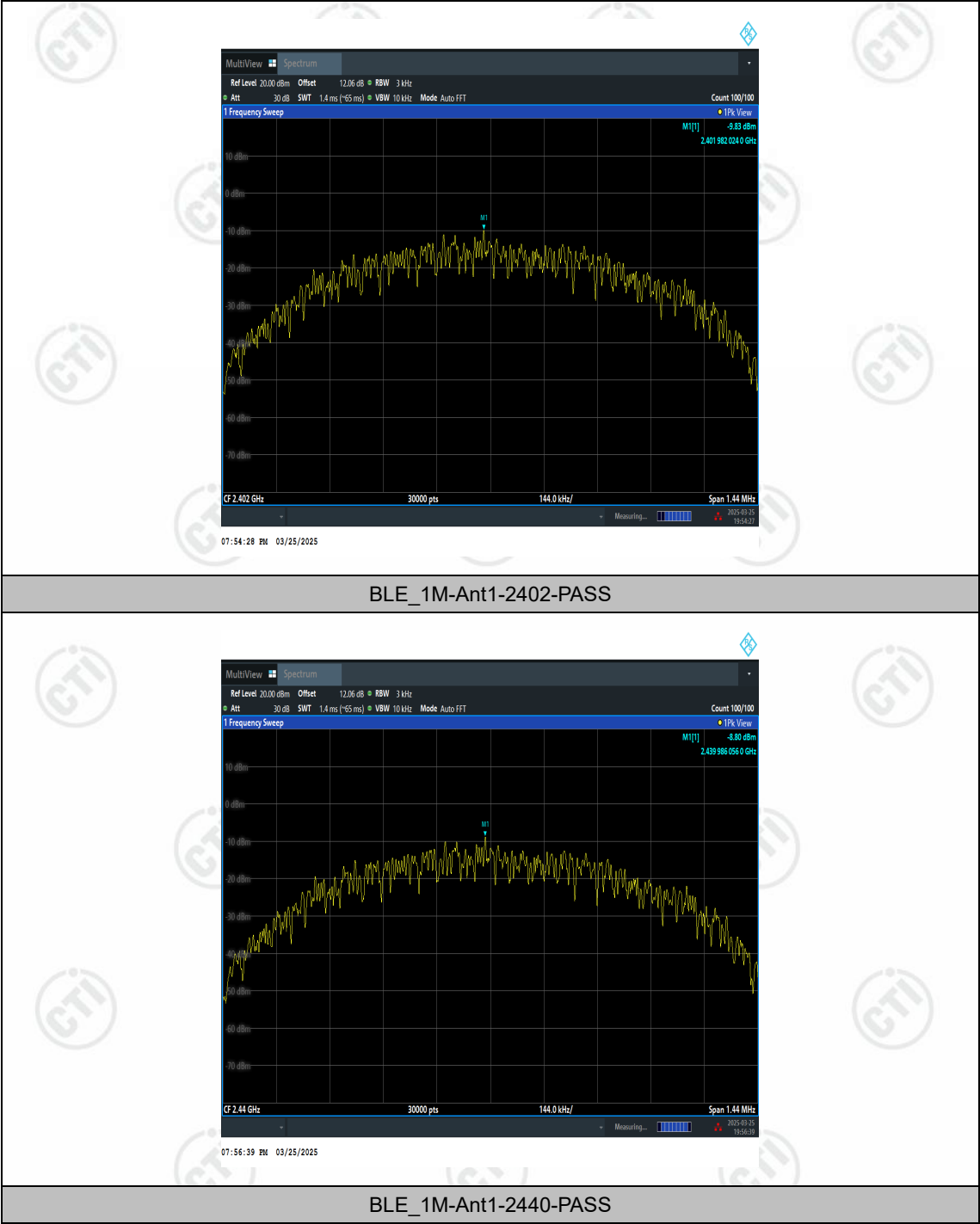


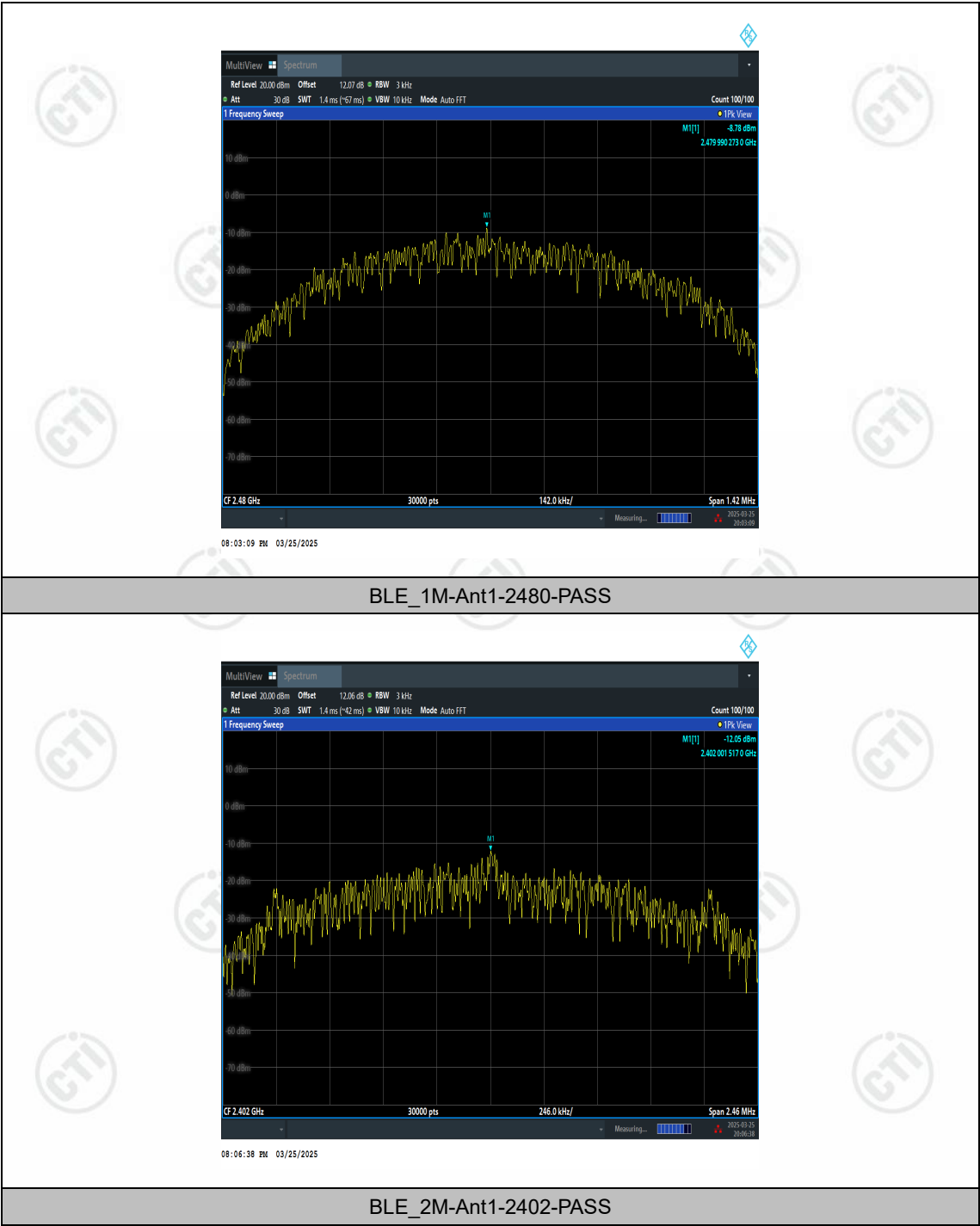
Appendix D: Maximum power spectral density

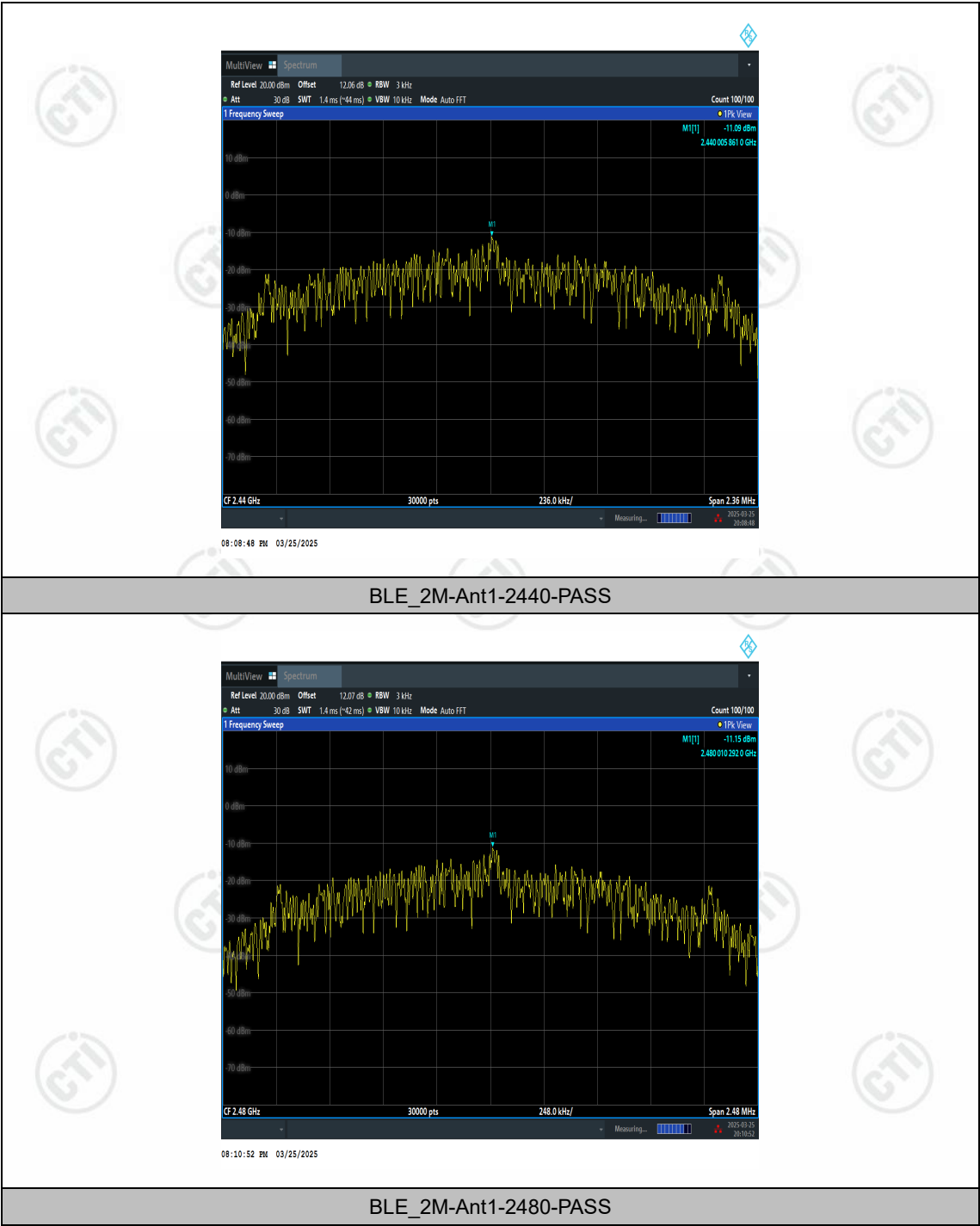
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.83	≤8.00	PASS
BLE_1M	Ant1	2440	-8.80	≤8.00	PASS
BLE_1M	Ant1	2480	-8.78	≤8.00	PASS
BLE_2M	Ant1	2402	-12.05	≤8.00	PASS
BLE_2M	Ant1	2440	-11.09	≤8.00	PASS
BLE_2M	Ant1	2480	-11.15	≤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	4.02	-45.81	≤-15.98	PASS
BLE_1M	Ant1	High	2480	5.13	-45.62	≤-14.87	PASS
BLE_2M	Ant1	Low	2402	4.12	-27.75	≤-15.88	PASS
BLE_2M	Ant1	High	2480	5.07	-45.91	≤-14.93	PASS

Test Graphs



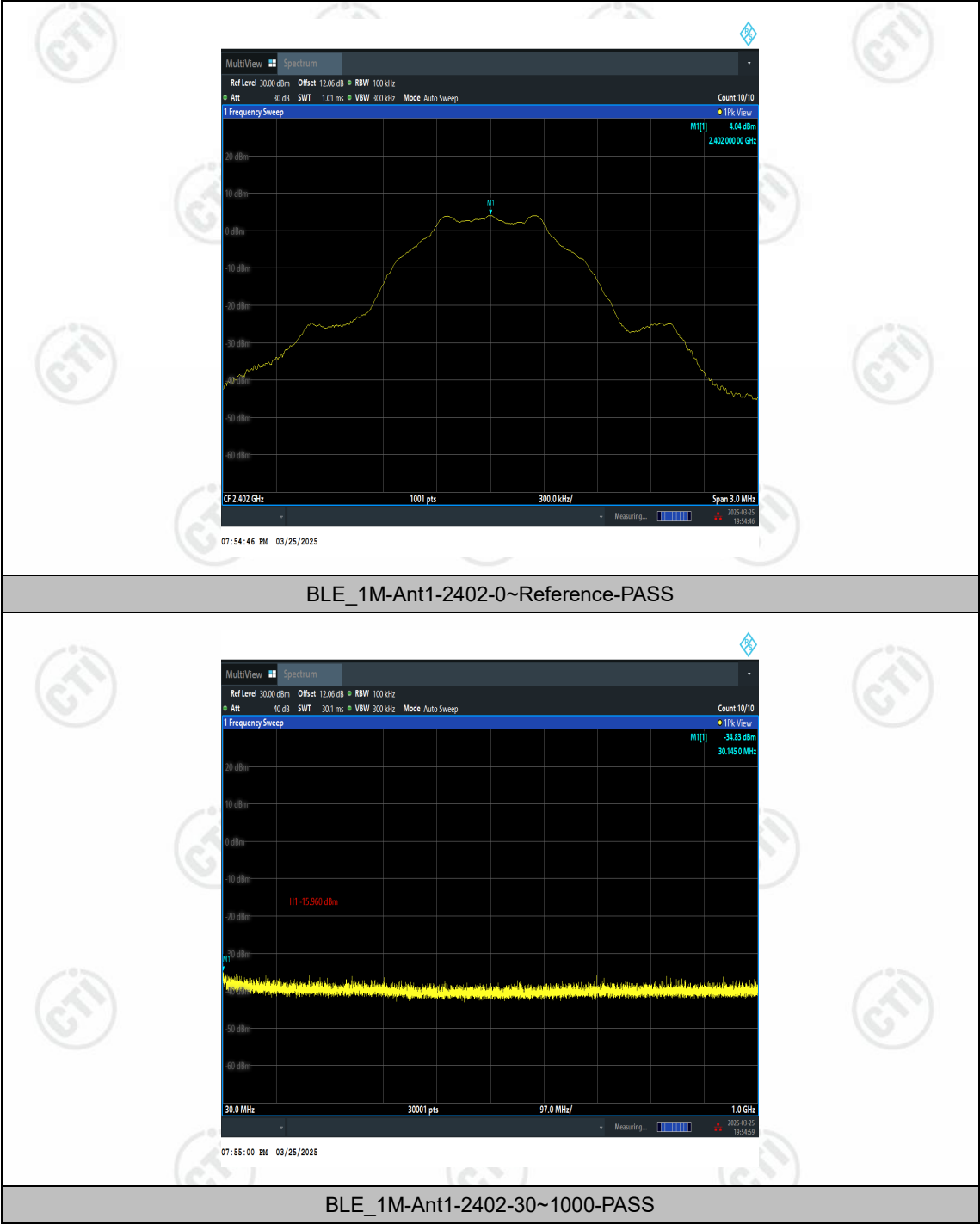


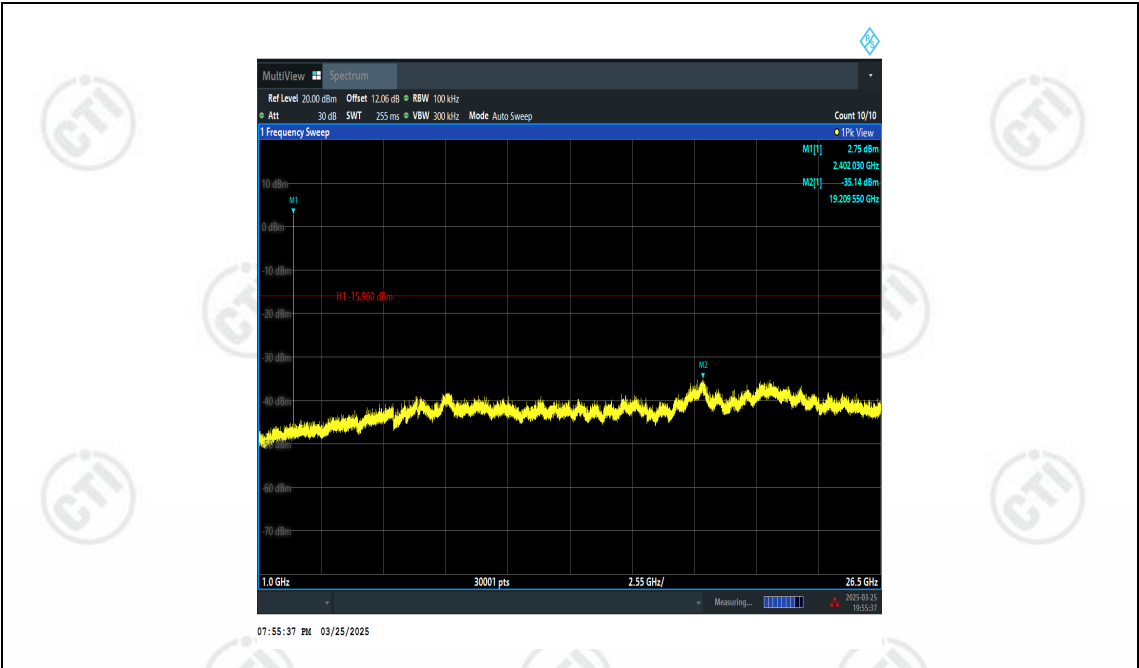
Appendix F: Conducted Spurious Emission

Test Result

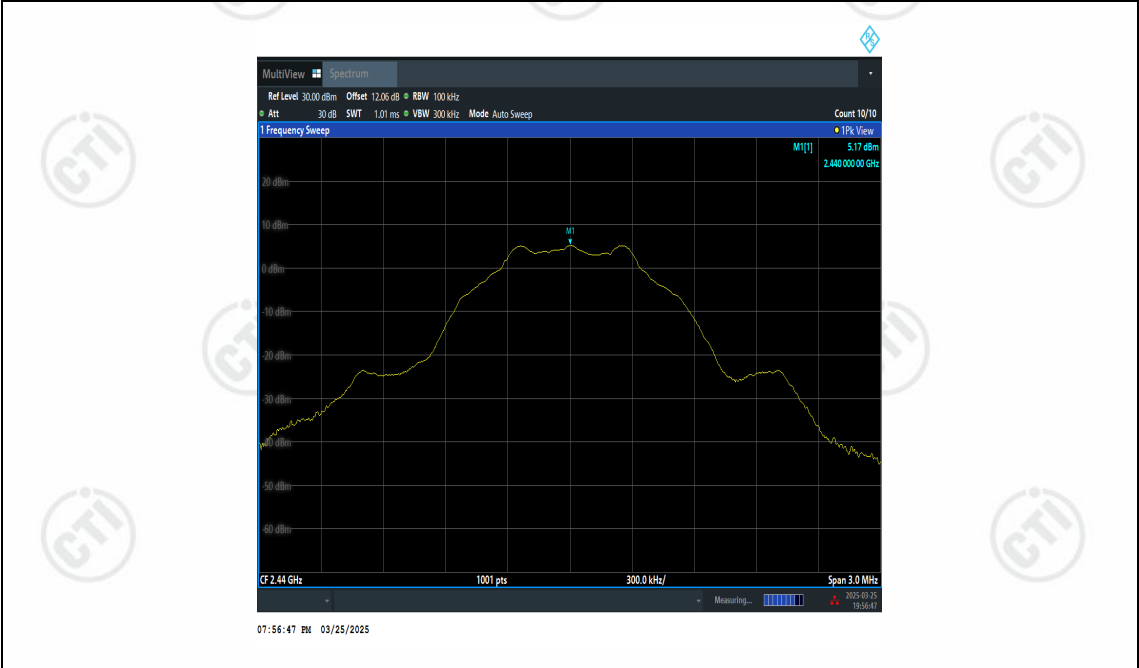
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.04	4.04	---	PASS
BLE_1M	Ant1	2402	30~1000	4.04	-34.83	≤-15.96	PASS
BLE_1M	Ant1	2402	1000~26500	4.04	-35.14	≤-15.96	PASS
BLE_1M	Ant1	2440	0~Reference	5.17	5.17	---	PASS
BLE_1M	Ant1	2440	30~1000	5.17	-35.19	≤-14.83	PASS
BLE_1M	Ant1	2440	1000~26500	5.17	-35.02	≤-14.83	PASS
BLE_1M	Ant1	2480	0~Reference	5.14	5.14	---	PASS
BLE_1M	Ant1	2480	30~1000	5.14	-34.08	≤-14.86	PASS
BLE_1M	Ant1	2480	1000~26500	5.14	-34.97	≤-14.86	PASS
BLE_2M	Ant1	2402	0~Reference	4.16	4.16	---	PASS
BLE_2M	Ant1	2402	30~1000	4.16	-34.25	≤-15.84	PASS
BLE_2M	Ant1	2402	1000~26500	4.16	-34.78	≤-15.84	PASS
BLE_2M	Ant1	2440	0~Reference	4.96	4.96	---	PASS
BLE_2M	Ant1	2440	30~1000	4.96	-34.54	≤-15.04	PASS
BLE_2M	Ant1	2440	1000~26500	4.96	-34.58	≤-15.04	PASS
BLE_2M	Ant1	2480	0~Reference	5.06	5.06	---	PASS
BLE_2M	Ant1	2480	30~1000	5.06	-34.46	≤-14.94	PASS
BLE_2M	Ant1	2480	1000~26500	5.06	-35.16	≤-14.94	PASS

Test Graphs

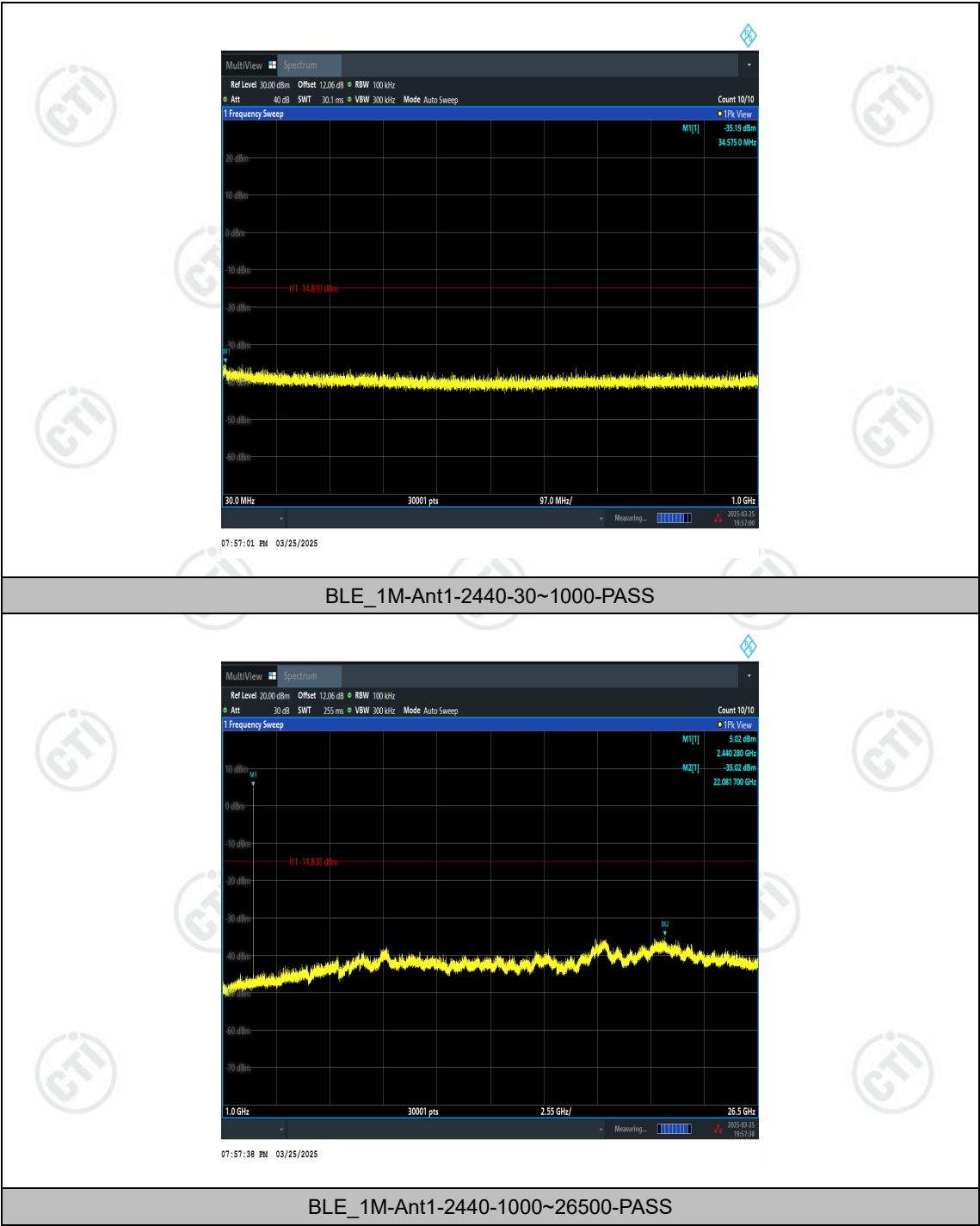


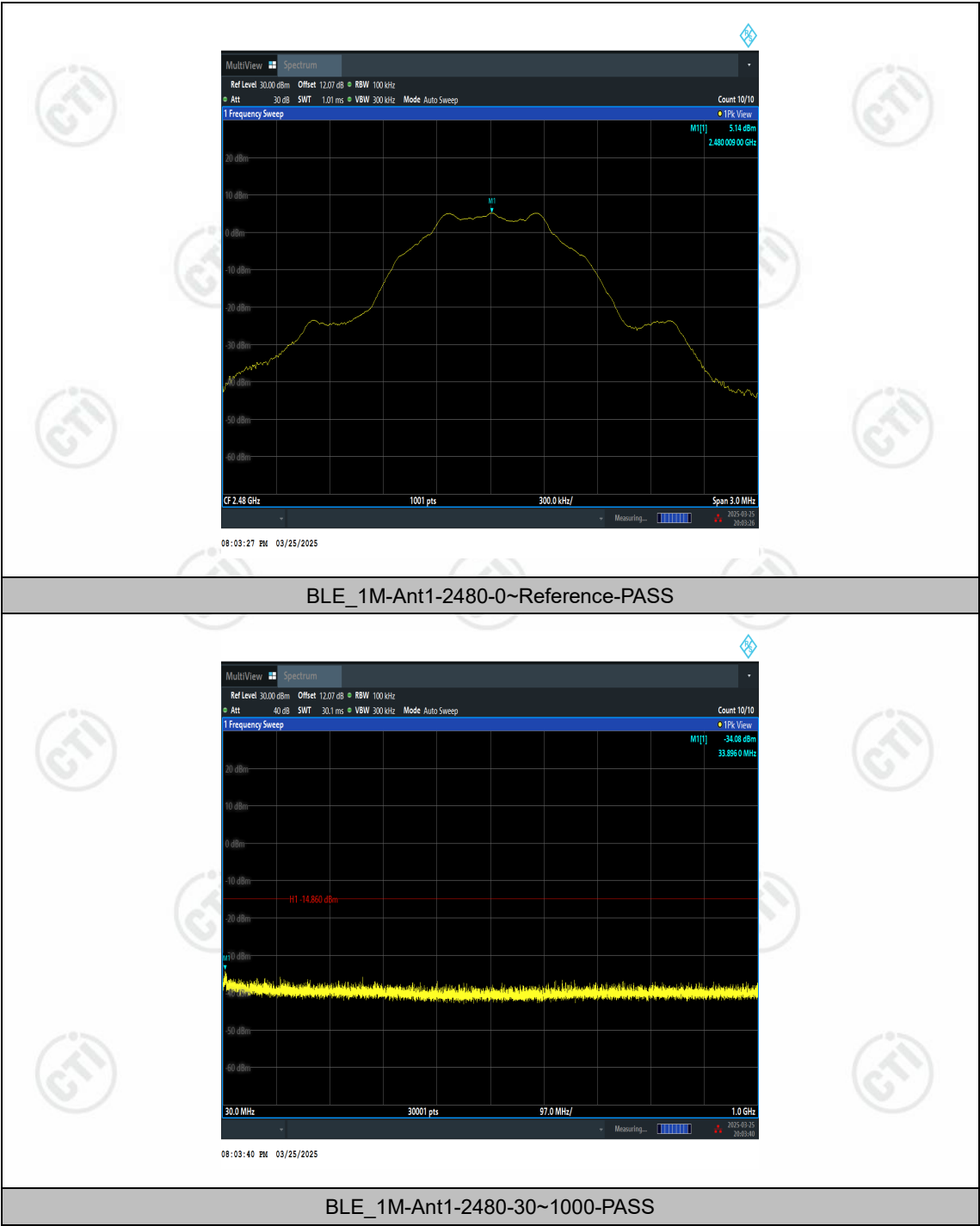


BLE_1M-Ant1-2402-1000~26500-PASS

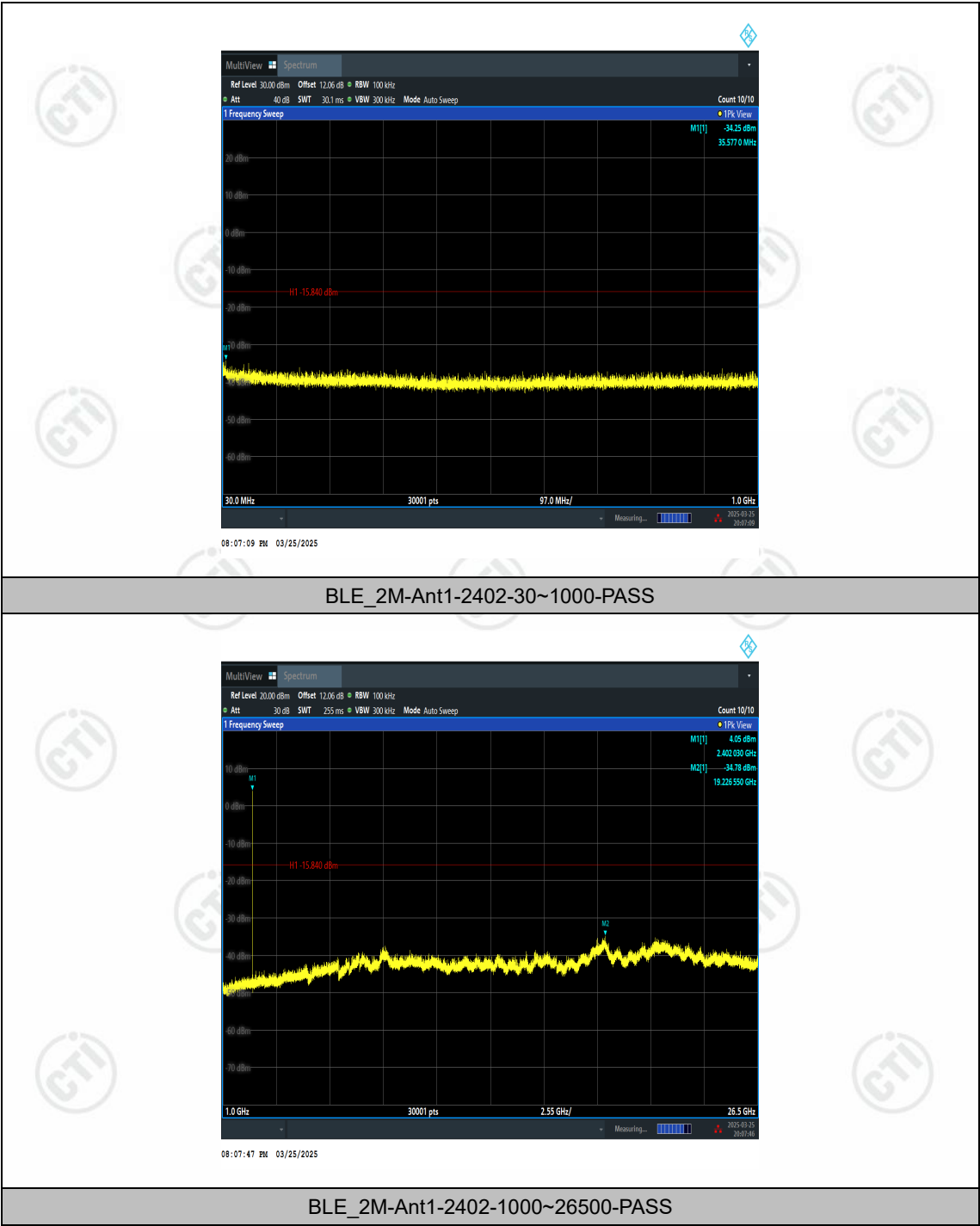


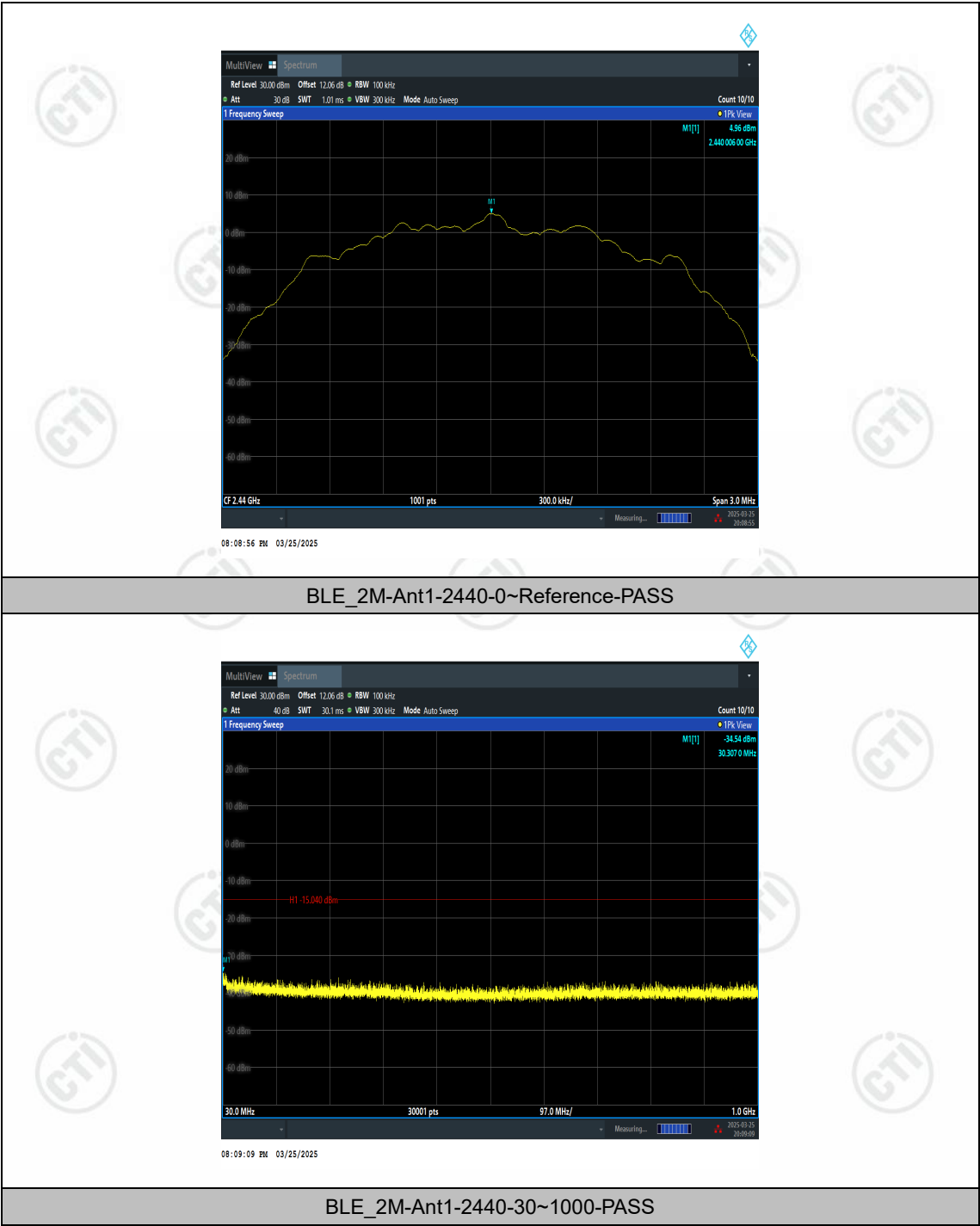
BLE_1M-Ant1-2440-0~Reference-PASS



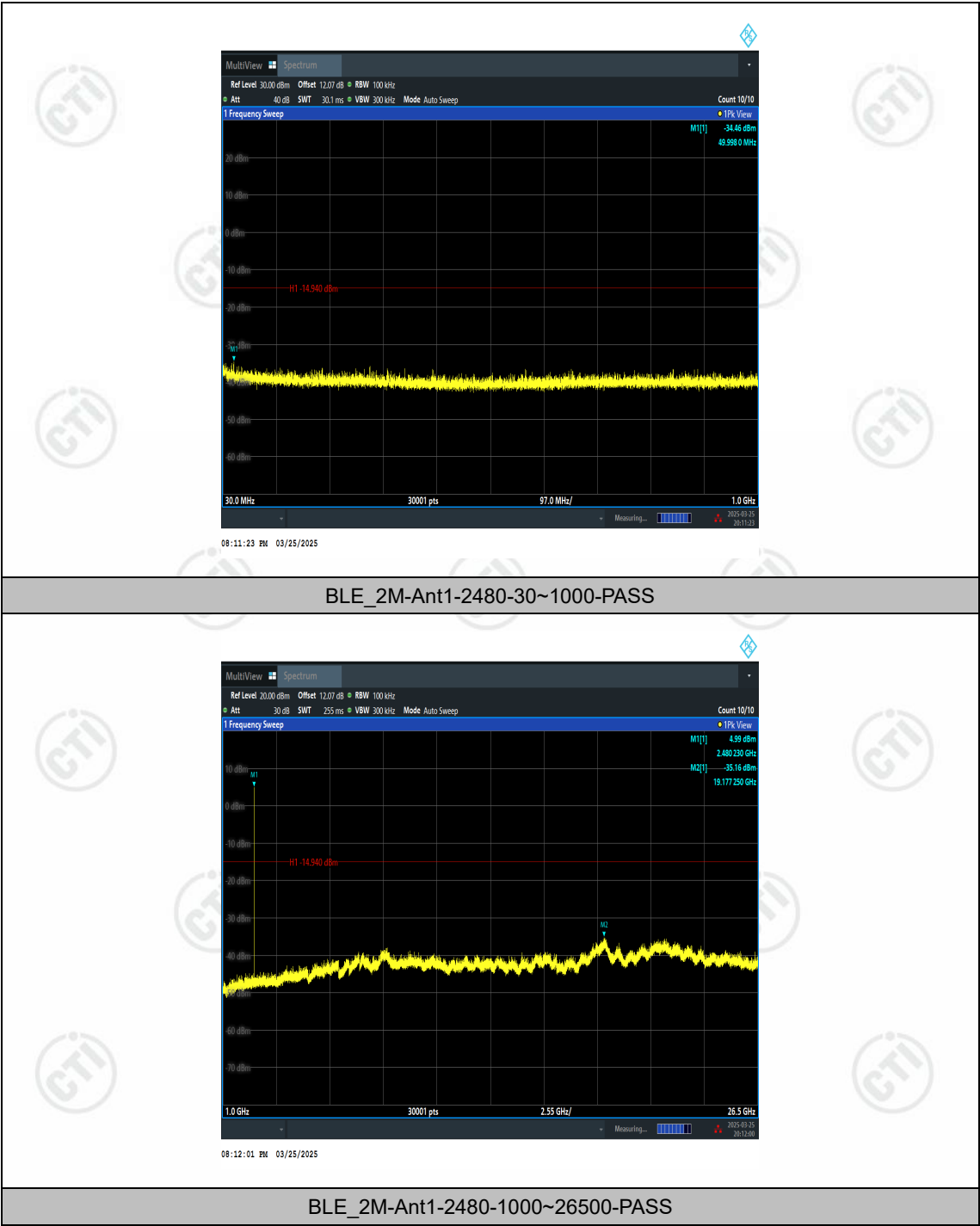












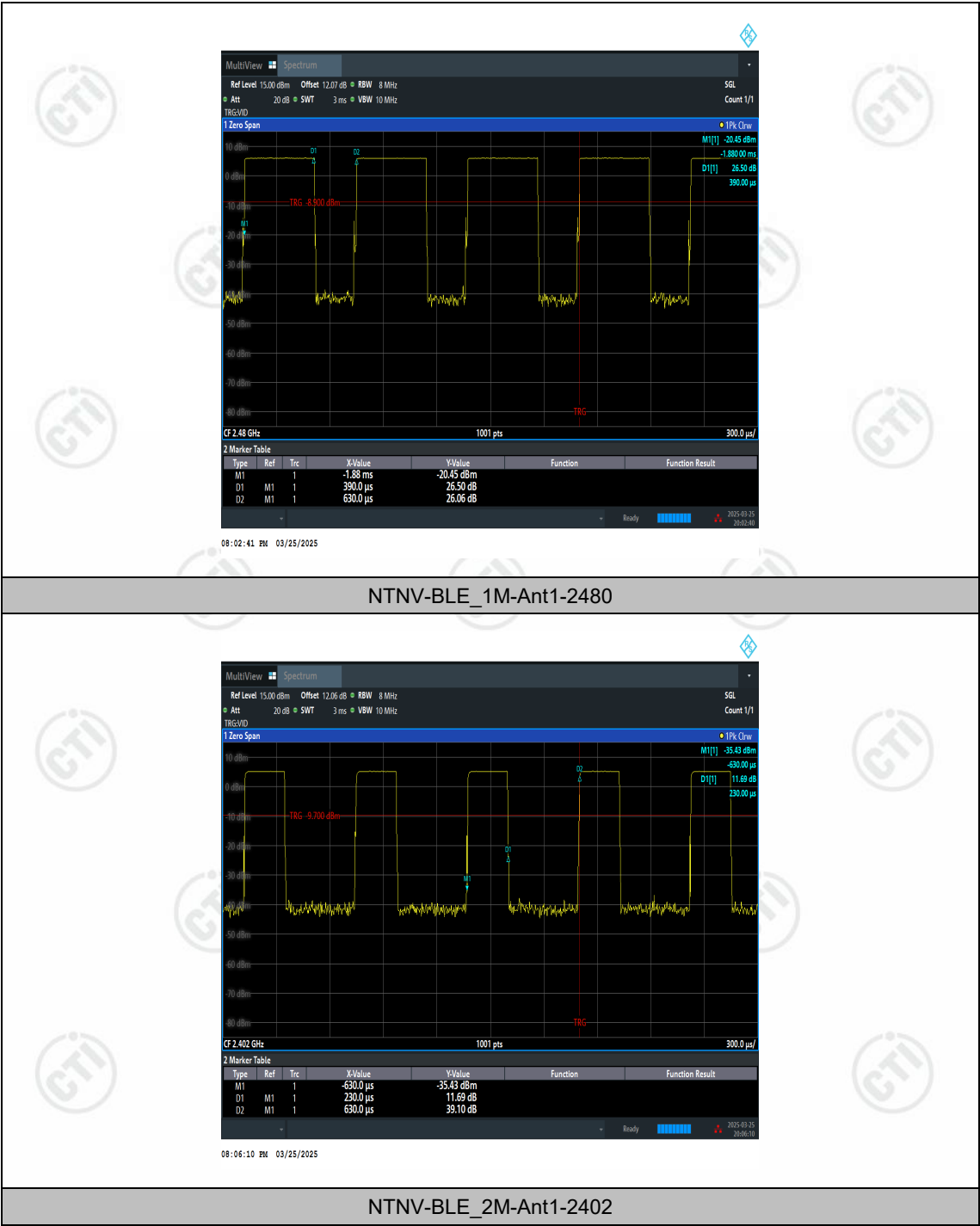
Appendix G: Duty Cycle

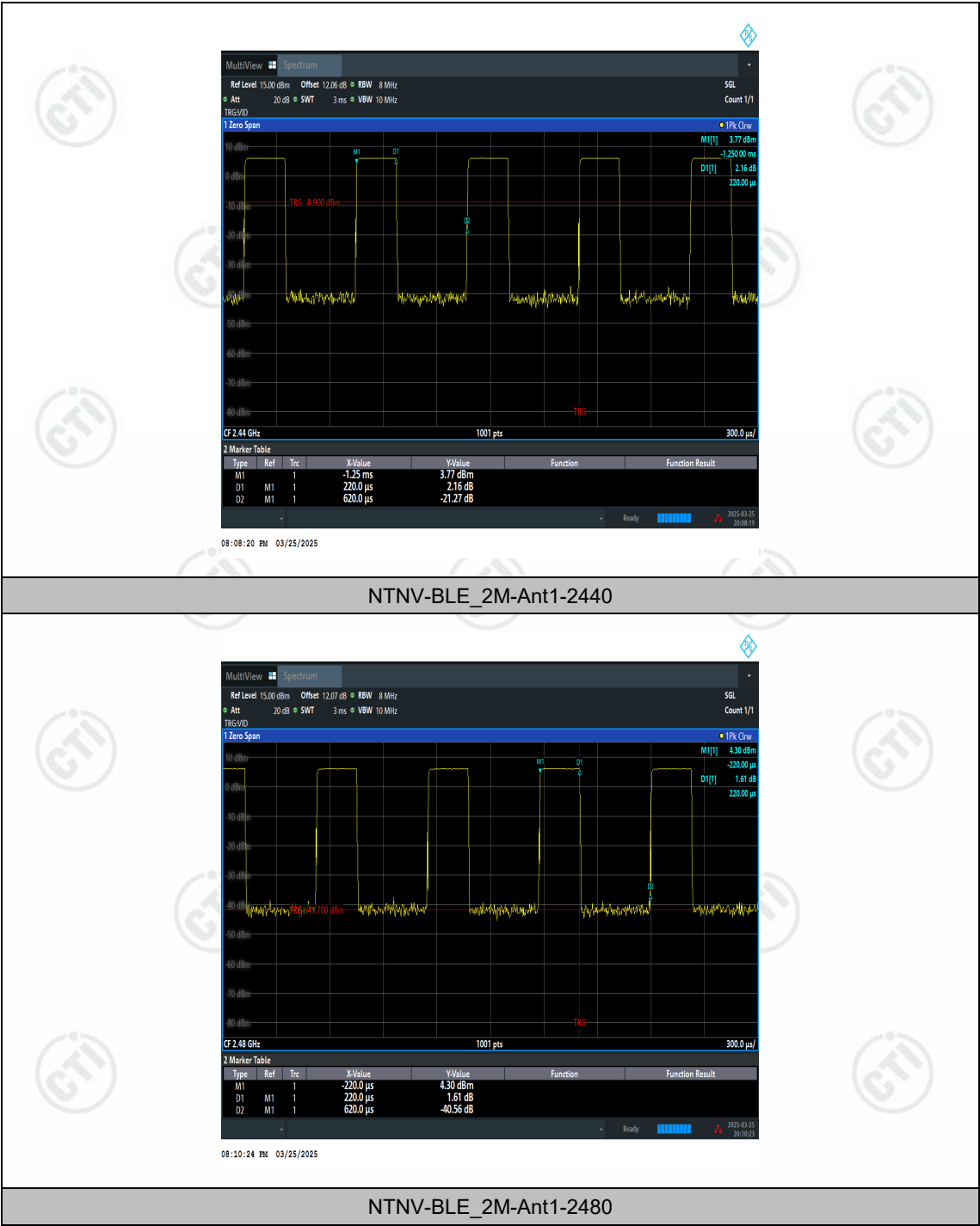
Test Result

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	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.23	0.63	36.51	4.38
BLE_2M	Ant1	2440	0.22	0.62	35.48	4.50
BLE_2M	Ant1	2480	0.22	0.62	35.48	4.50

Test Graphs







*** End of Report ***