

Appendix: Bluetooth LE For Handpiece

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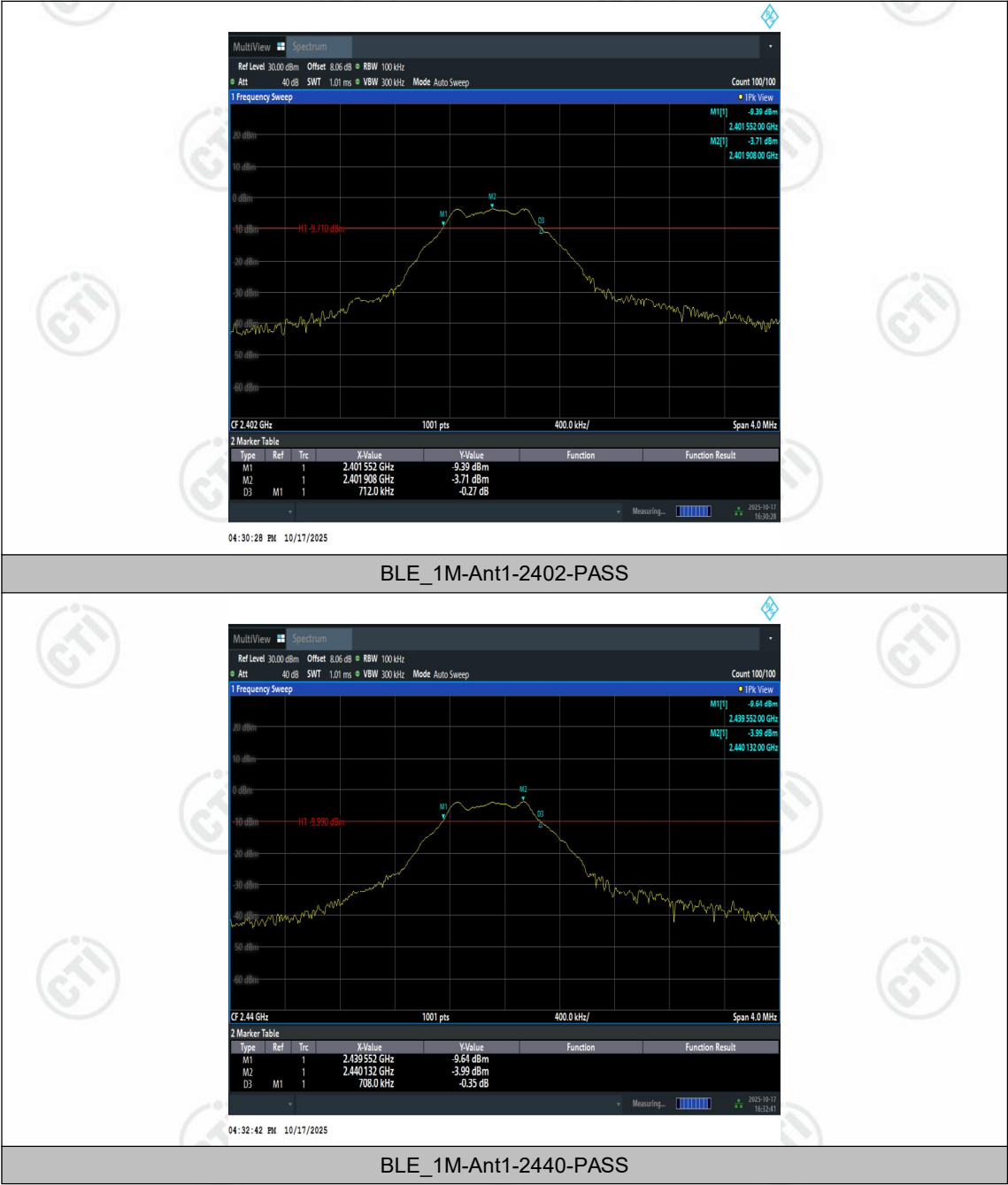
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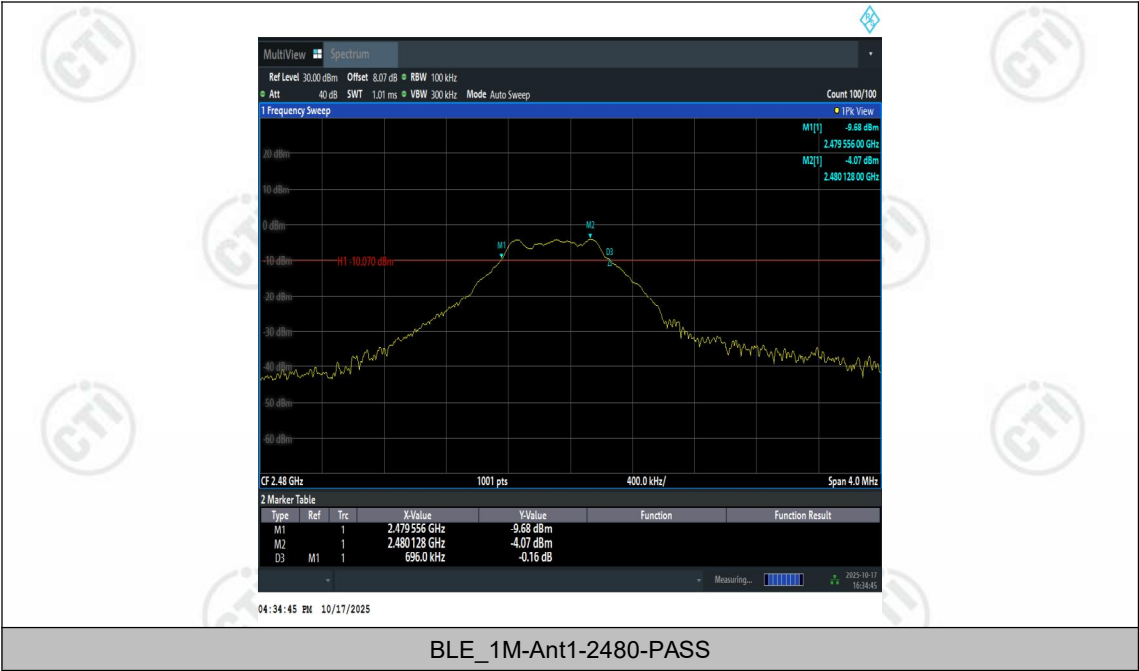
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.71	2401.55	2402.26	0.5	PASS
BLE_1M	Ant1	2440	0.71	2439.55	2440.26	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.56	2480.25	0.5	PASS

Test Graphs



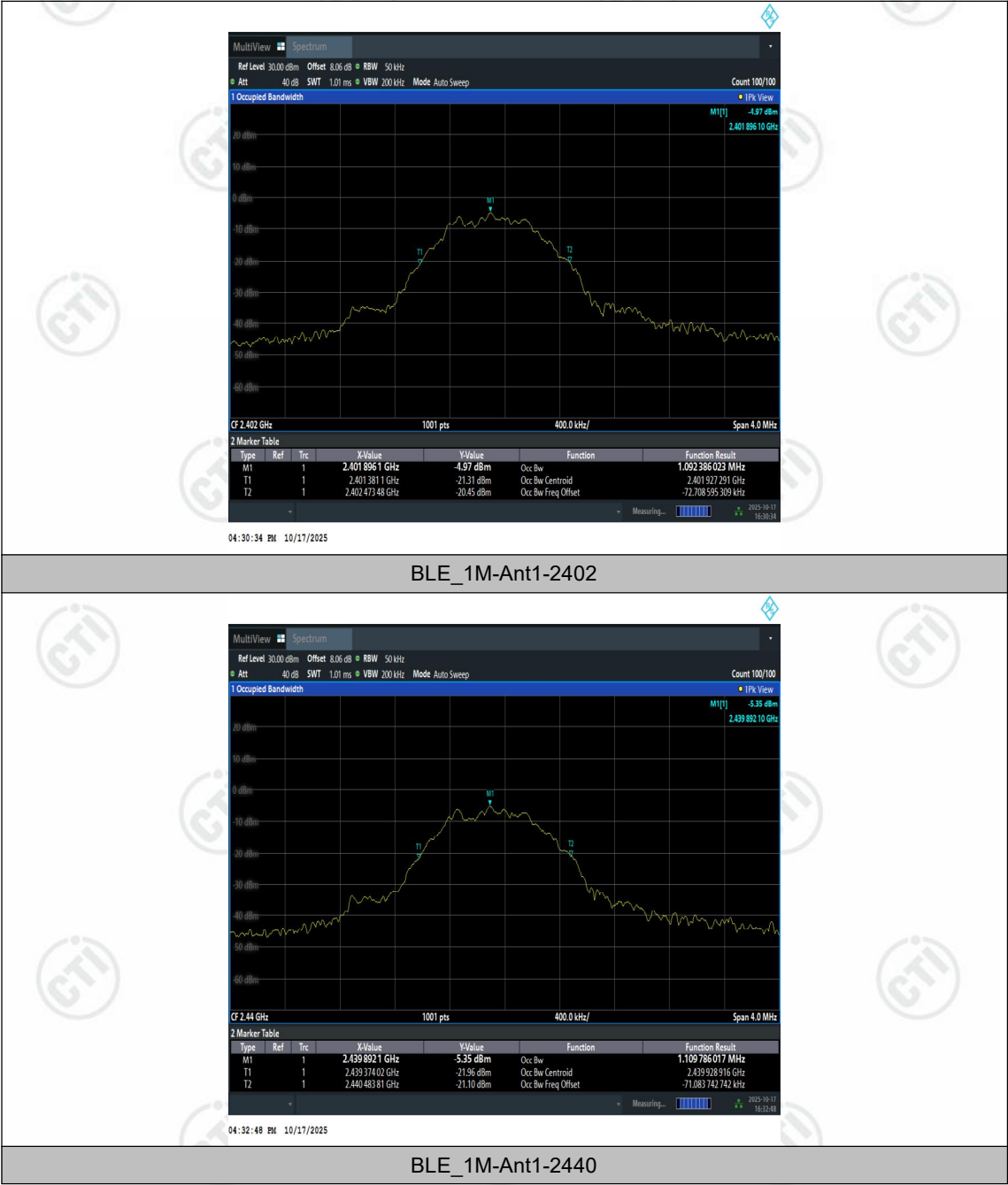


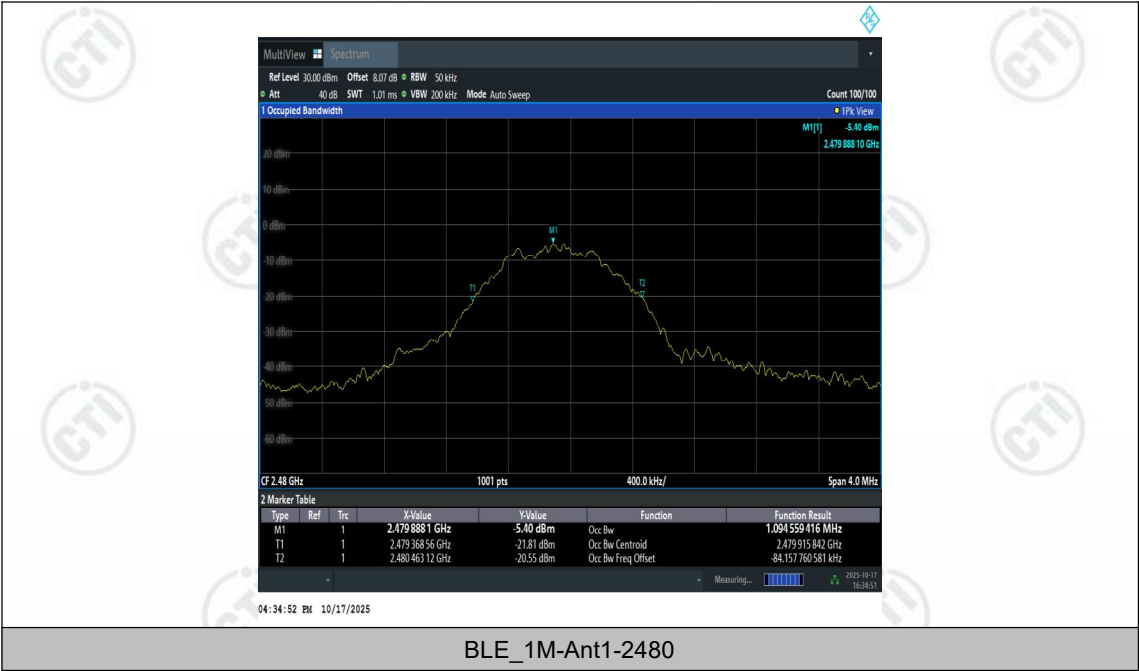
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0924	2401.3811	2402.4735	---	---
BLE_1M	Ant1	2440	1.1098	2439.3740	2440.4838	---	---
BLE_1M	Ant1	2480	1.0946	2479.3686	2480.4631	---	---

Test Graphs



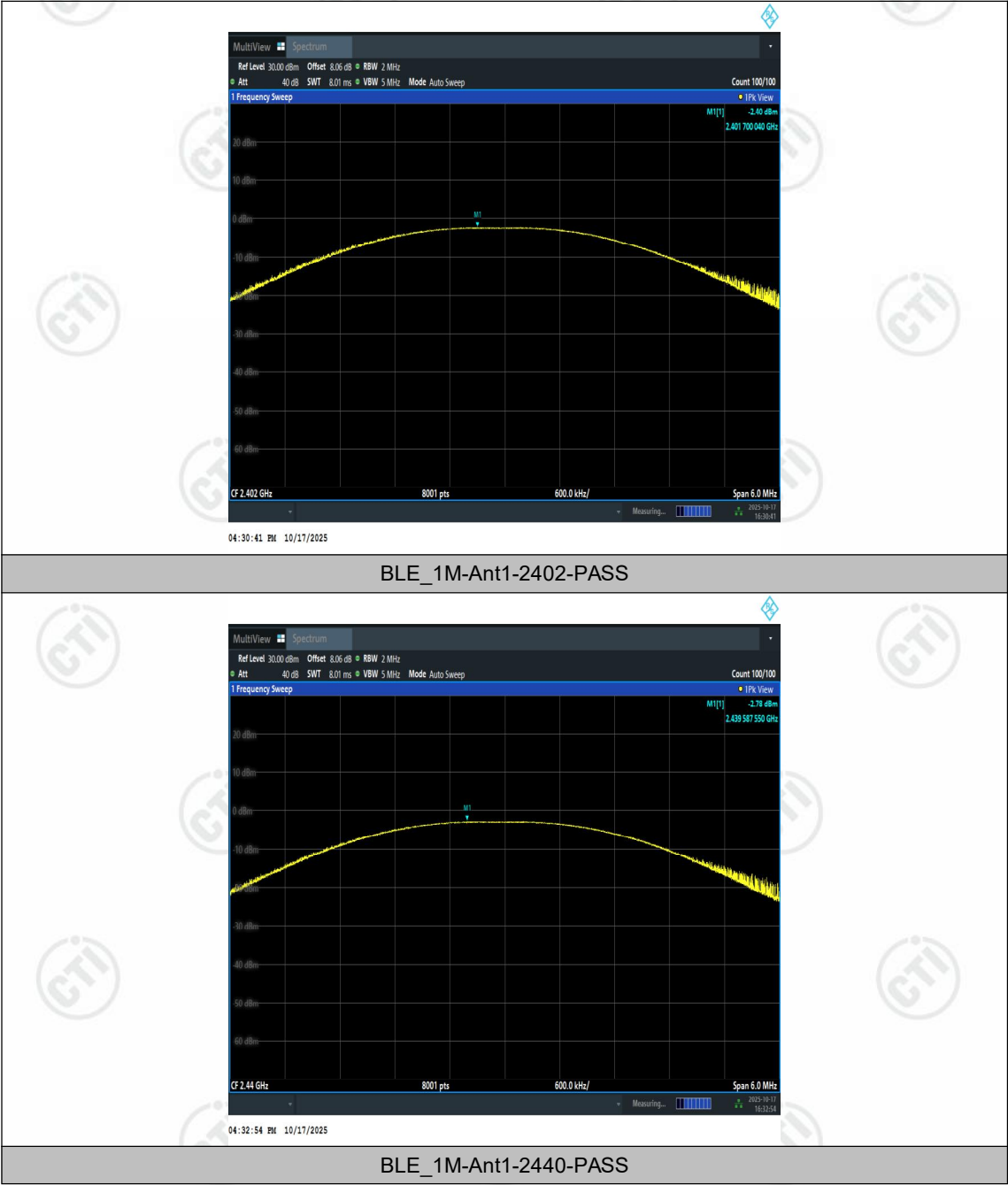


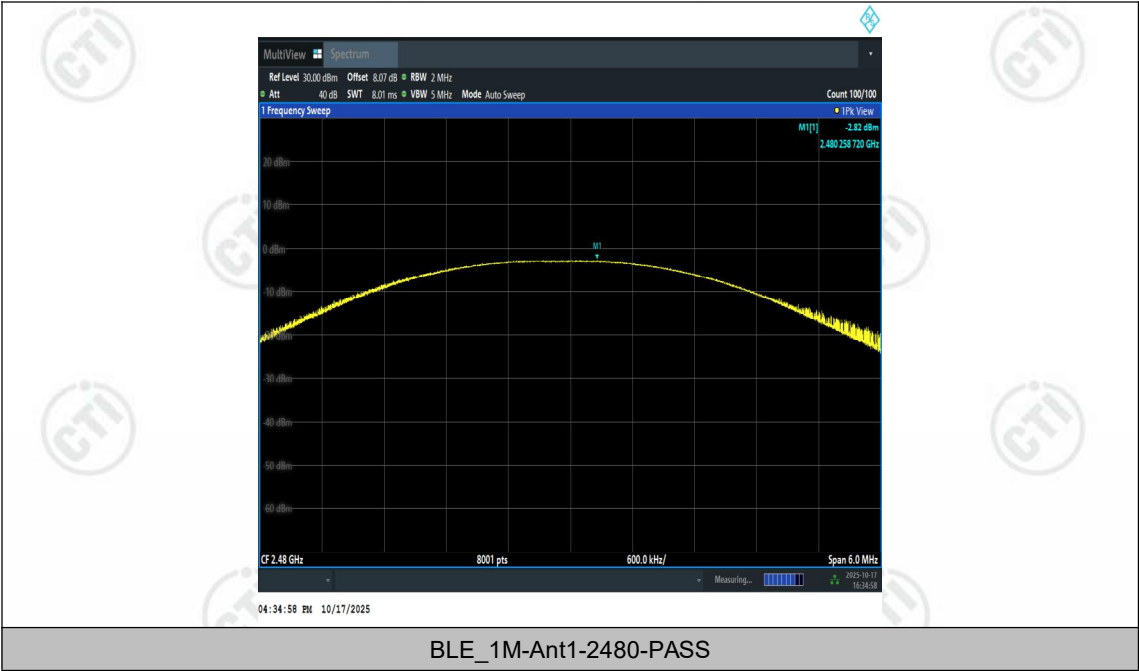
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.40	≤30	-1.90	≤36	PASS
BLE_1M	Ant1	2440	-2.78	≤30	-2.28	≤36	PASS
BLE_1M	Ant1	2480	-2.82	≤30	-2.32	≤36	PASS

Test Graphs Peak



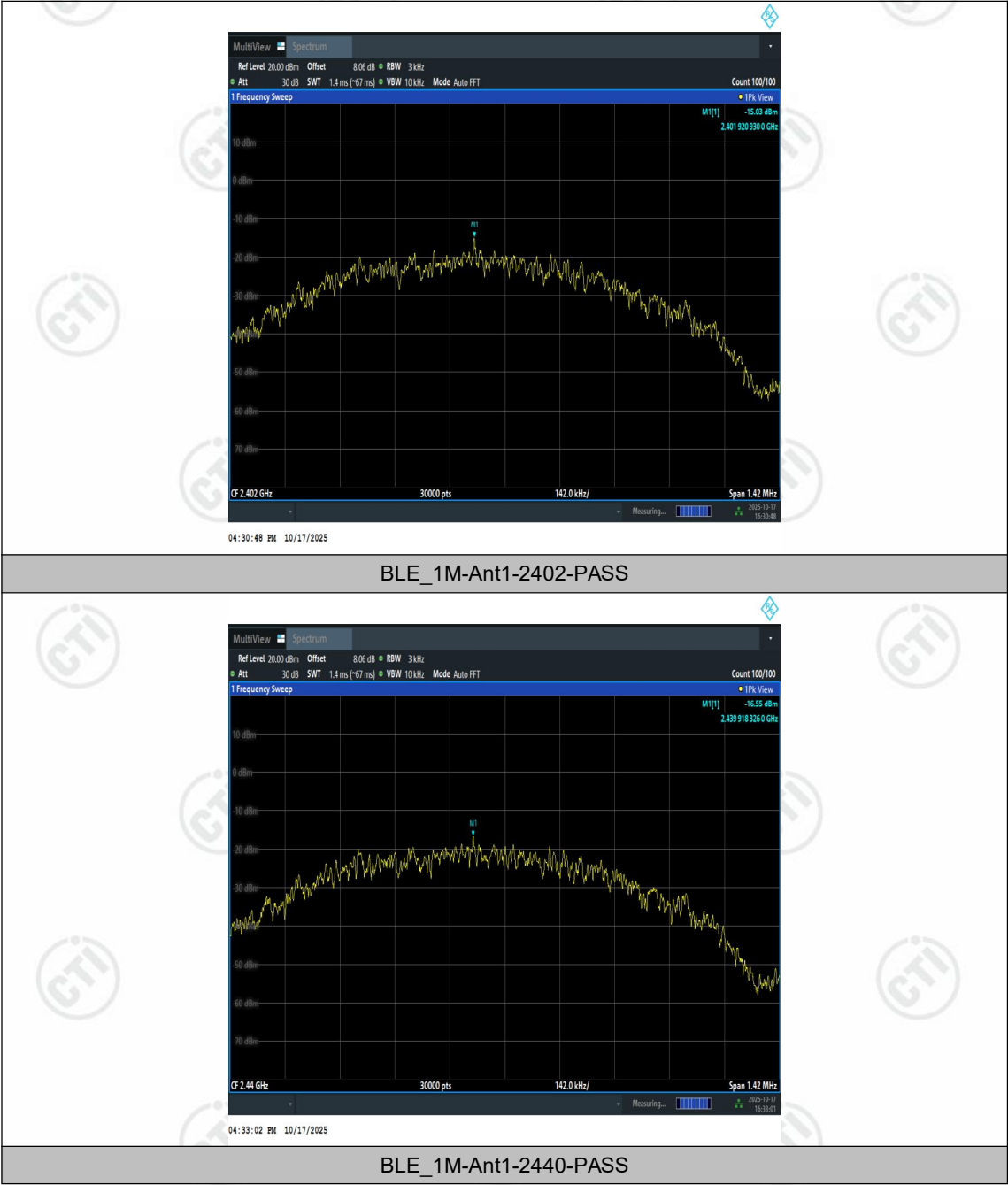


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.03	≤8.00	PASS
BLE_1M	Ant1	2440	-16.55	≤8.00	PASS
BLE_1M	Ant1	2480	-15.67	≤8.00	PASS

Test Graphs



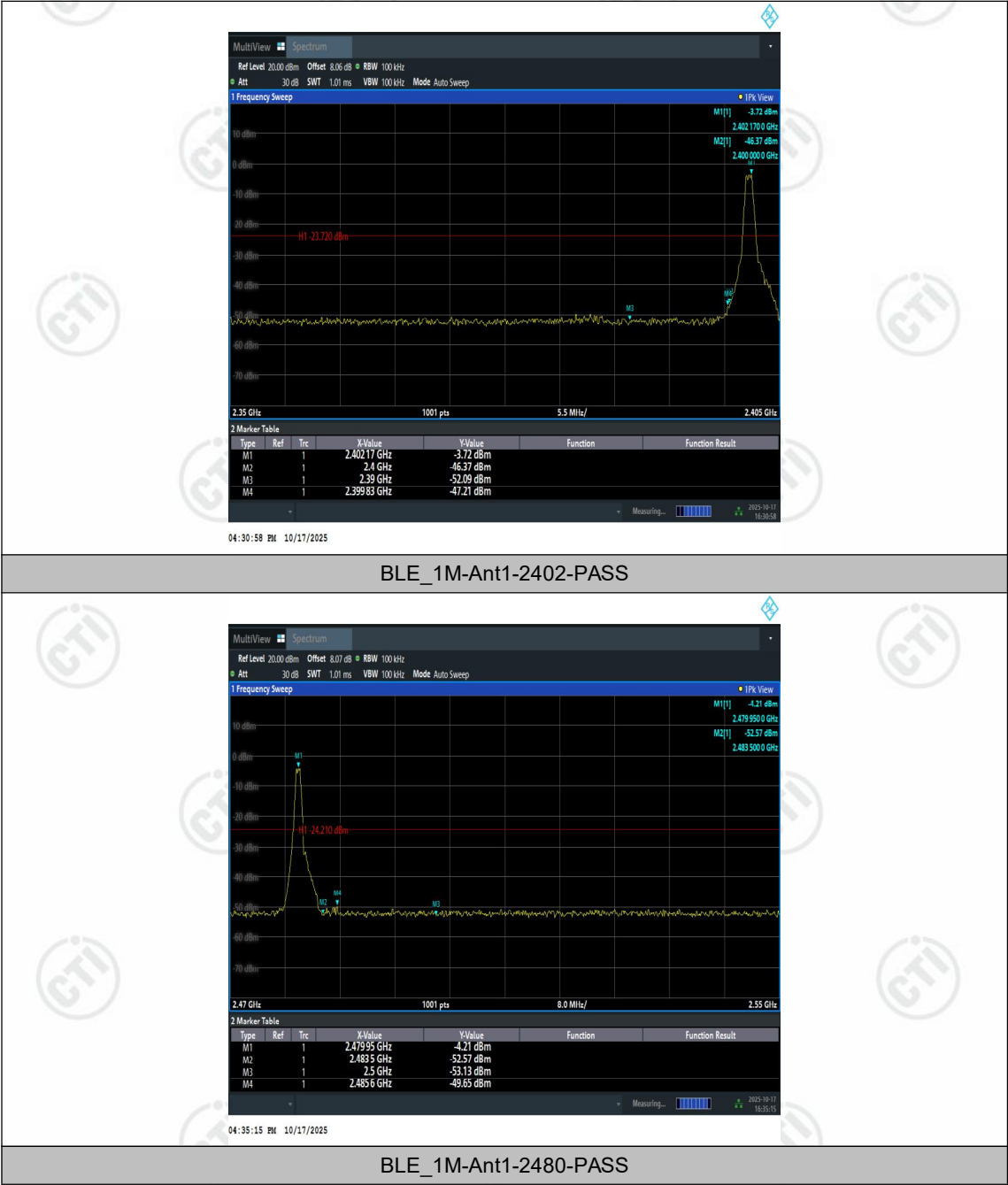


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.72	-47.21	≤-23.72	PASS
BLE_1M	Ant1	High	2480	-4.21	-49.65	≤-24.21	PASS

Test Graphs

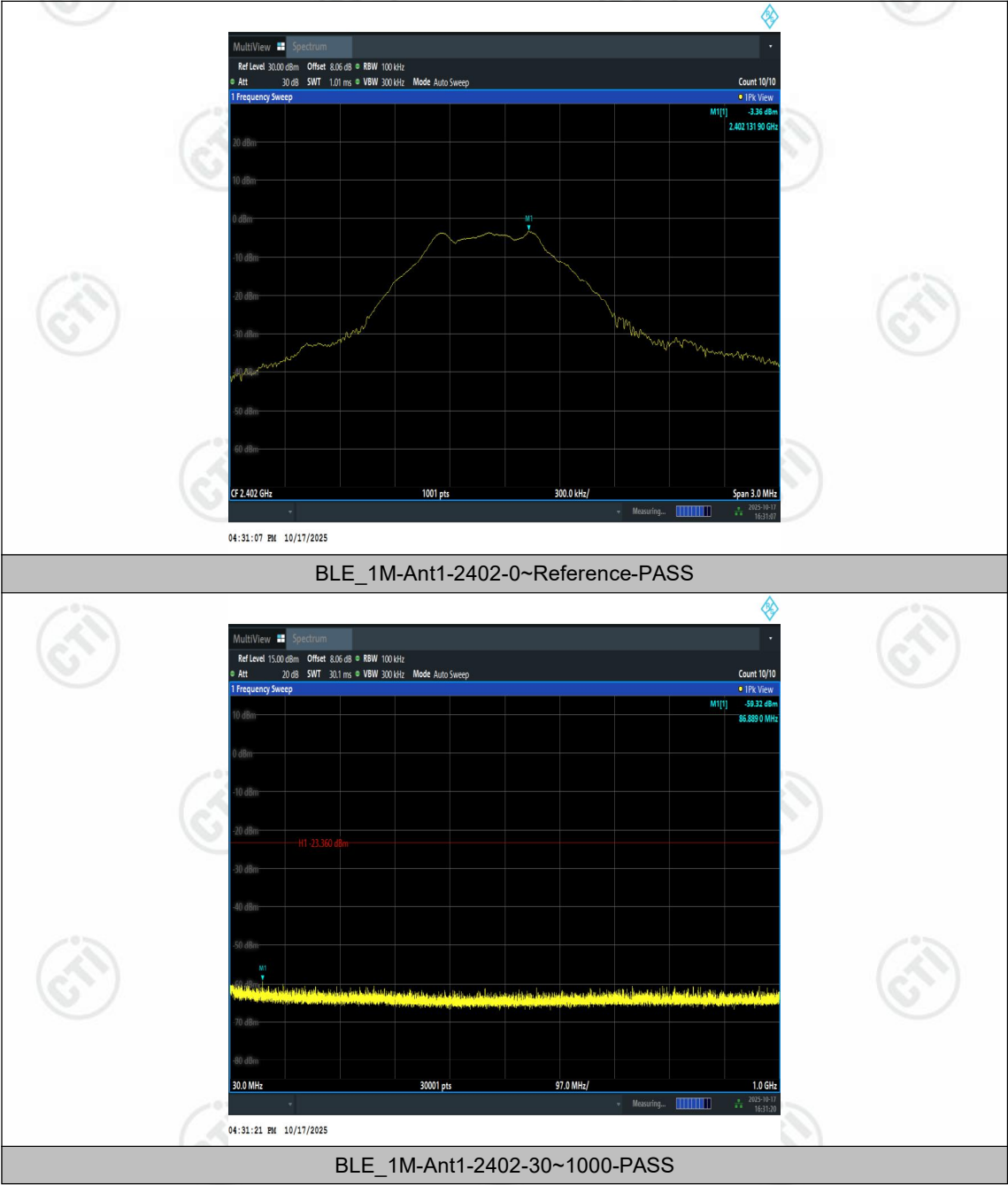


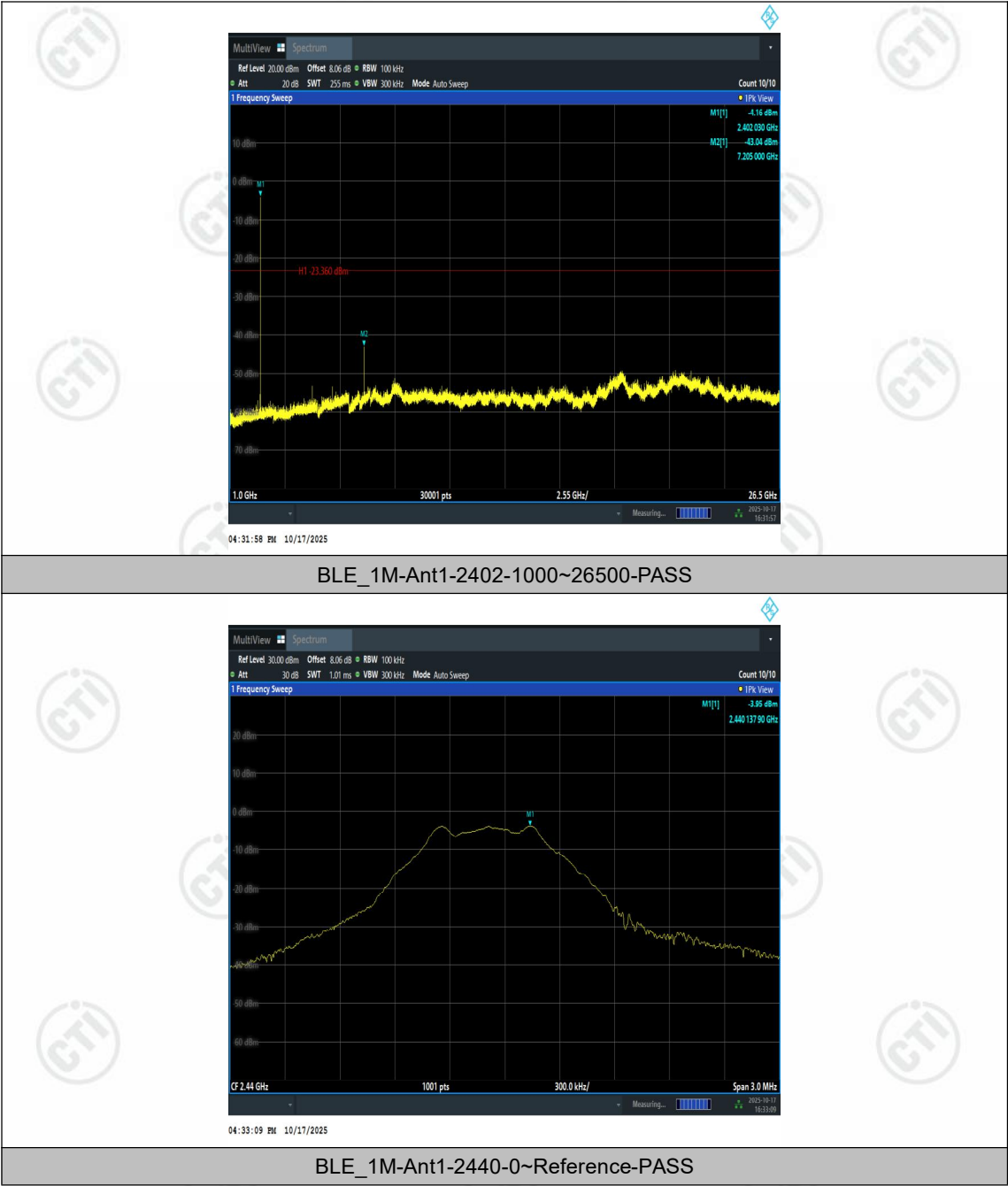
Appendix F: Conducted Spurious Emission

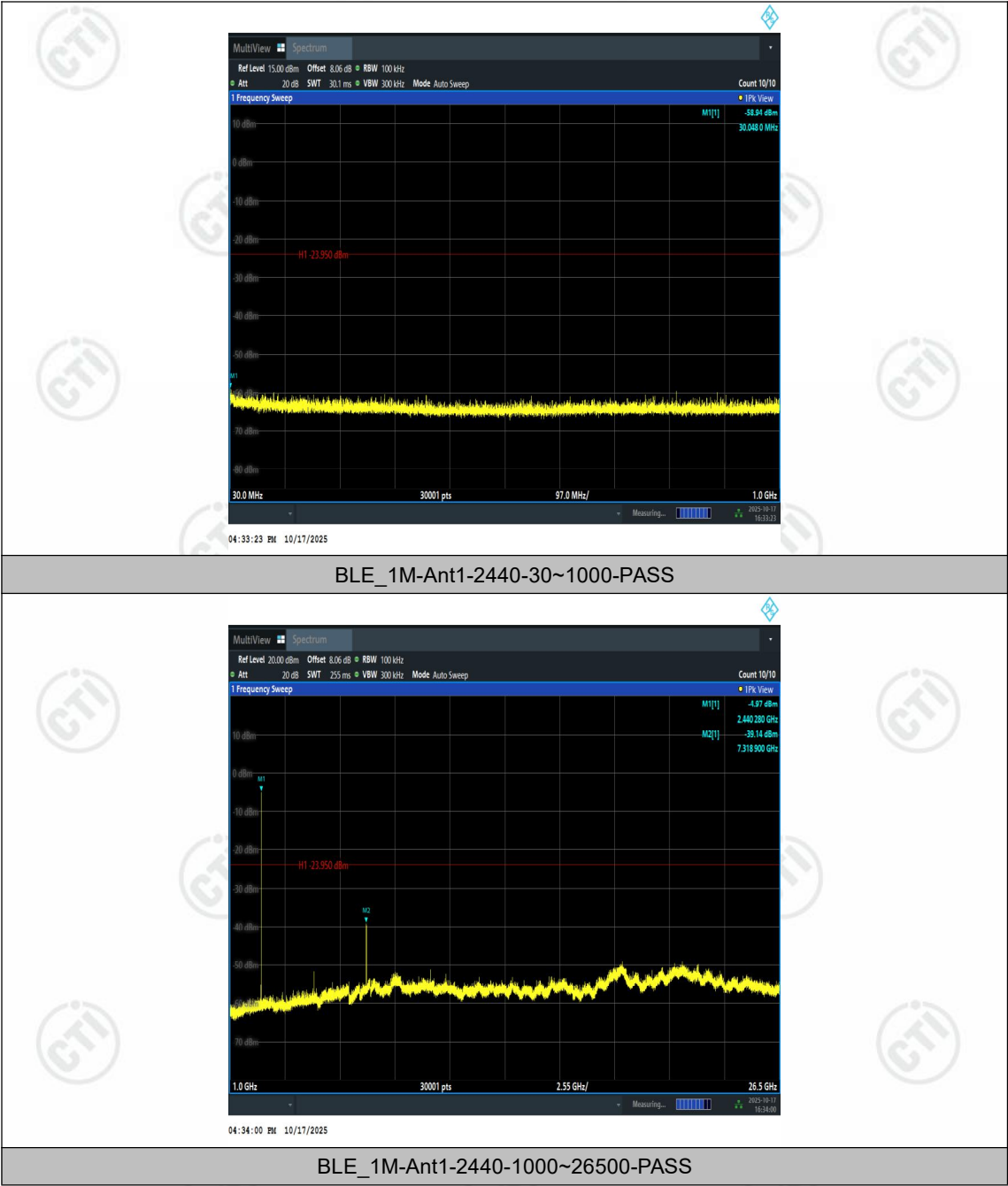
Test Result

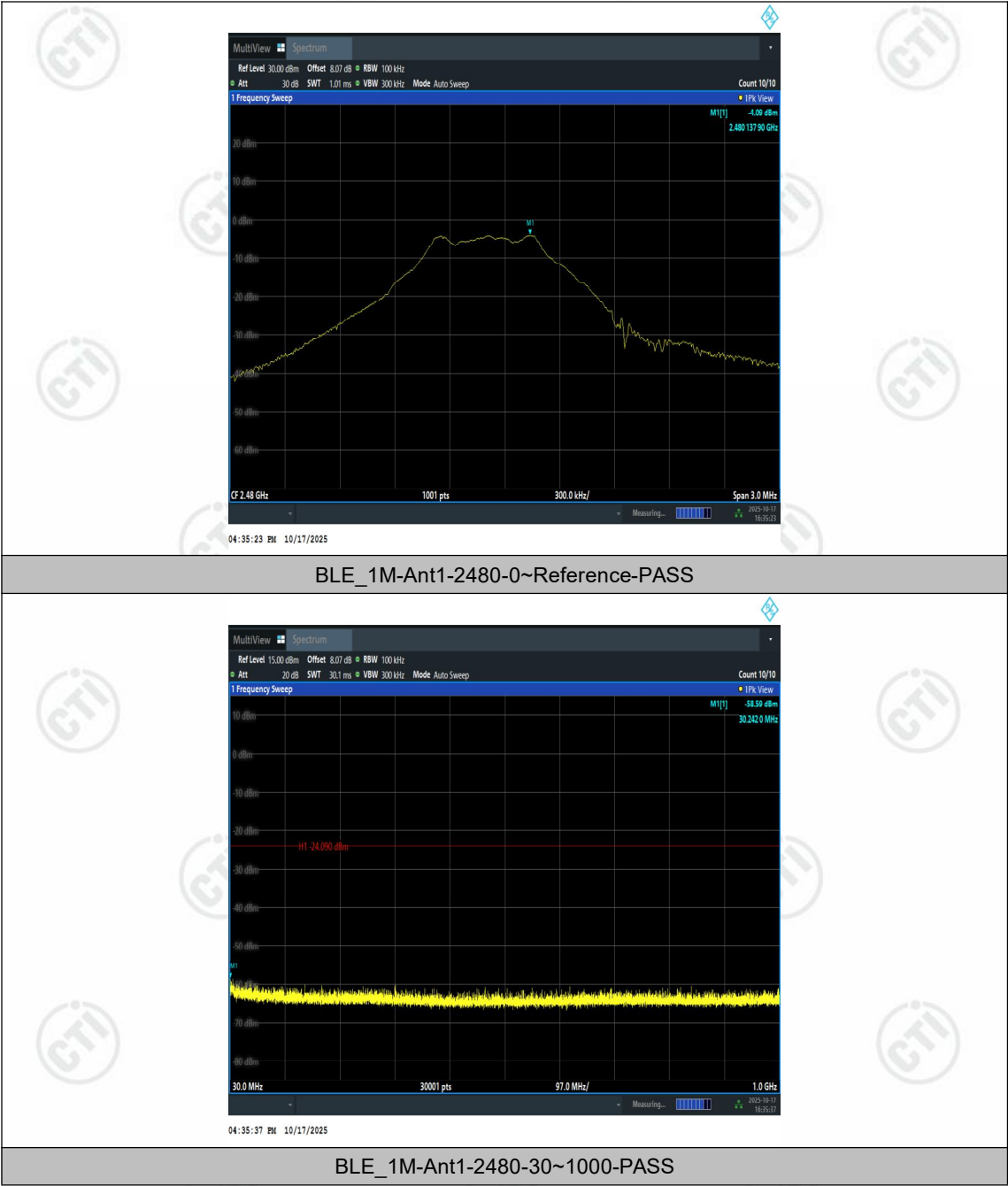
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.36	-3.36	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.36	-59.32	≤-23.36	PASS
BLE_1M	Ant1	2402	1000~26500	-3.36	-43.04	≤-23.36	PASS
BLE_1M	Ant1	2440	0~Reference	-3.95	-3.95	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.95	-58.94	≤-23.95	PASS
BLE_1M	Ant1	2440	1000~26500	-3.95	-39.14	≤-23.95	PASS
BLE_1M	Ant1	2480	0~Reference	-4.09	-4.09	---	PASS
BLE_1M	Ant1	2480	30~1000	-4.09	-58.59	≤-24.09	PASS
BLE_1M	Ant1	2480	1000~26500	-4.09	-42.39	≤-24.09	PASS

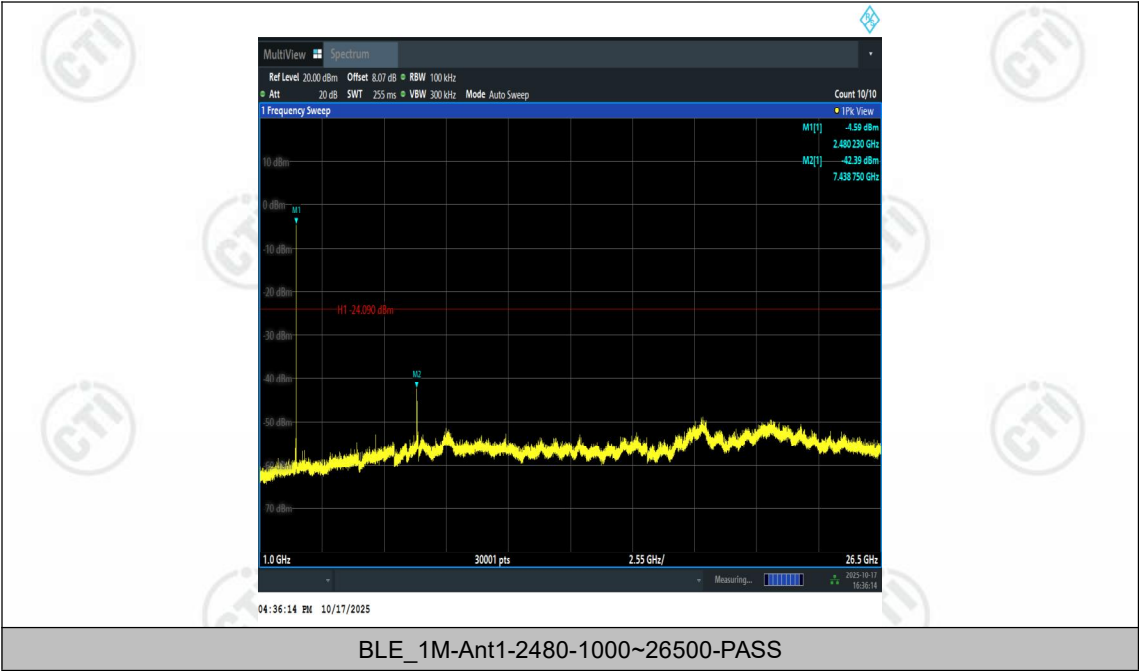
Test Graphs











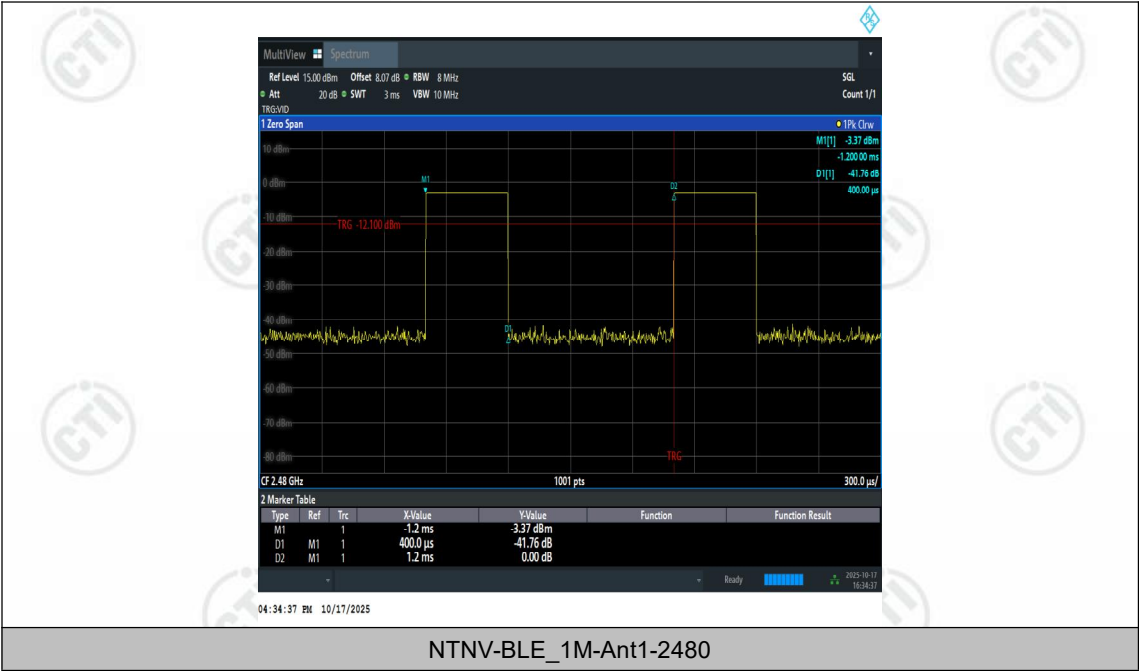
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	1.20	33.33	4.77
BLE_1M	Ant1	2440	0.40	1.20	33.33	4.77
BLE_1M	Ant1	2480	0.40	1.20	33.33	4.77

Test Graphs





*** End of Report ***