

Appendix: Bluetooth LE

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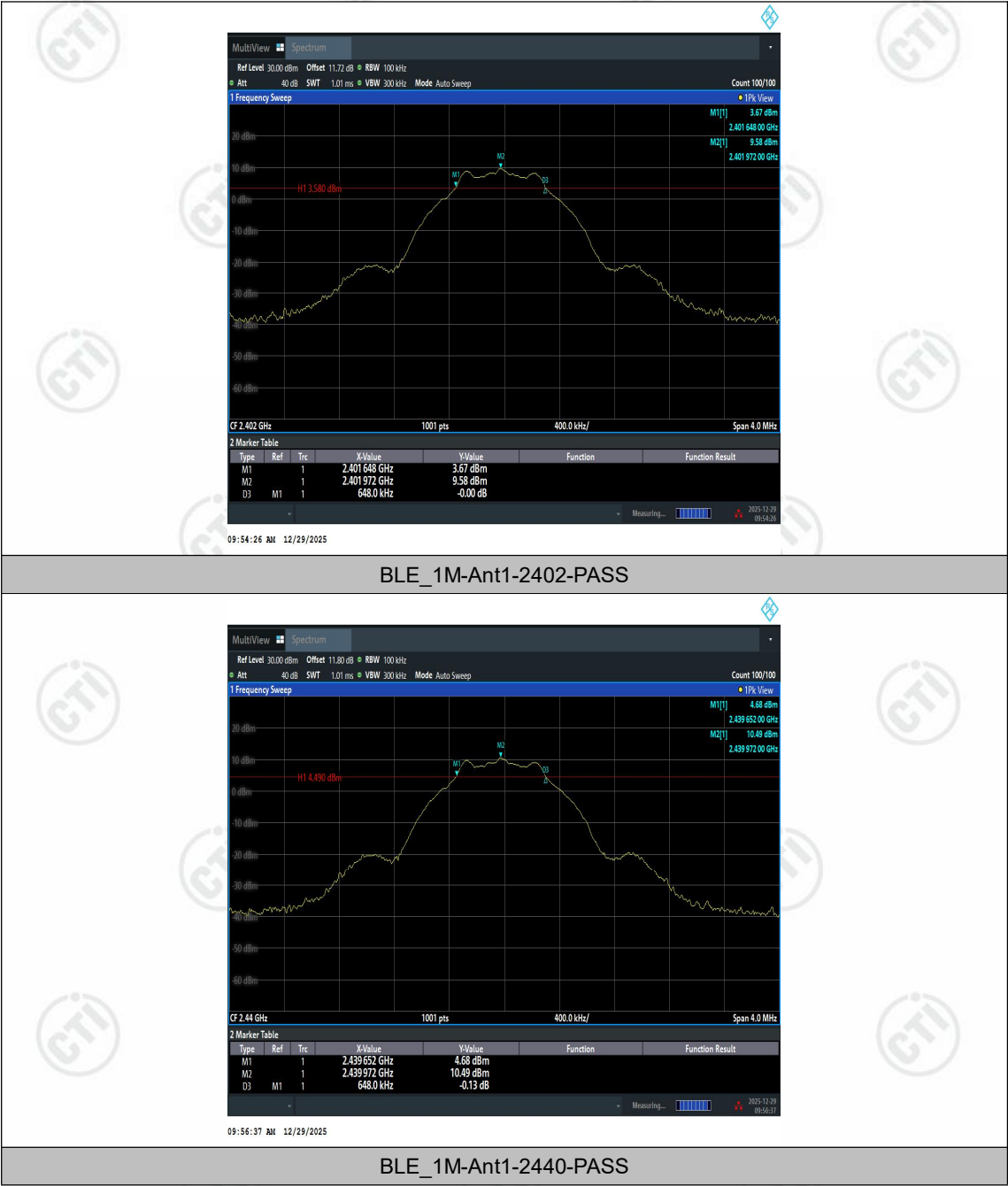
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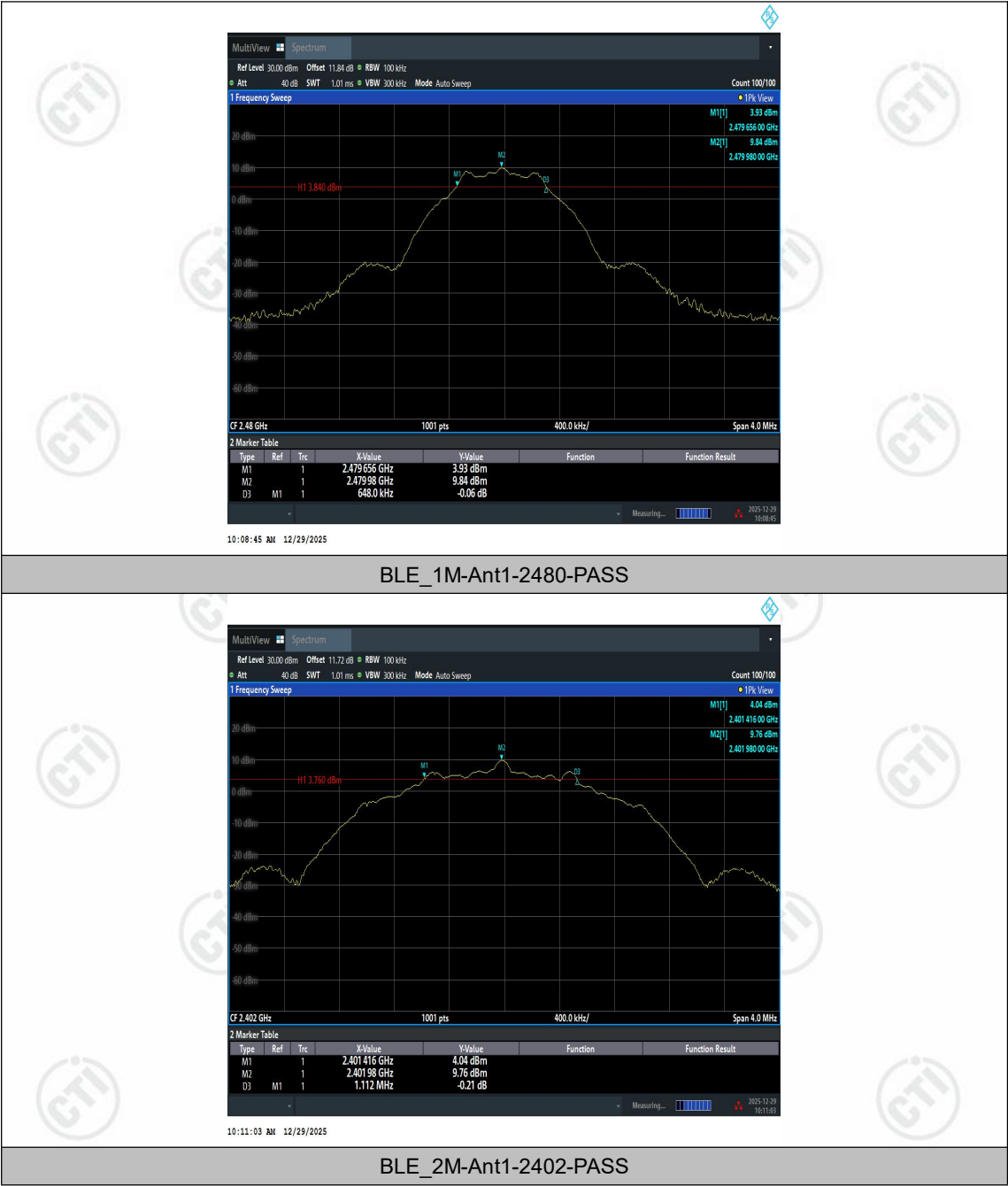
Appendix A: DTS Bandwidth

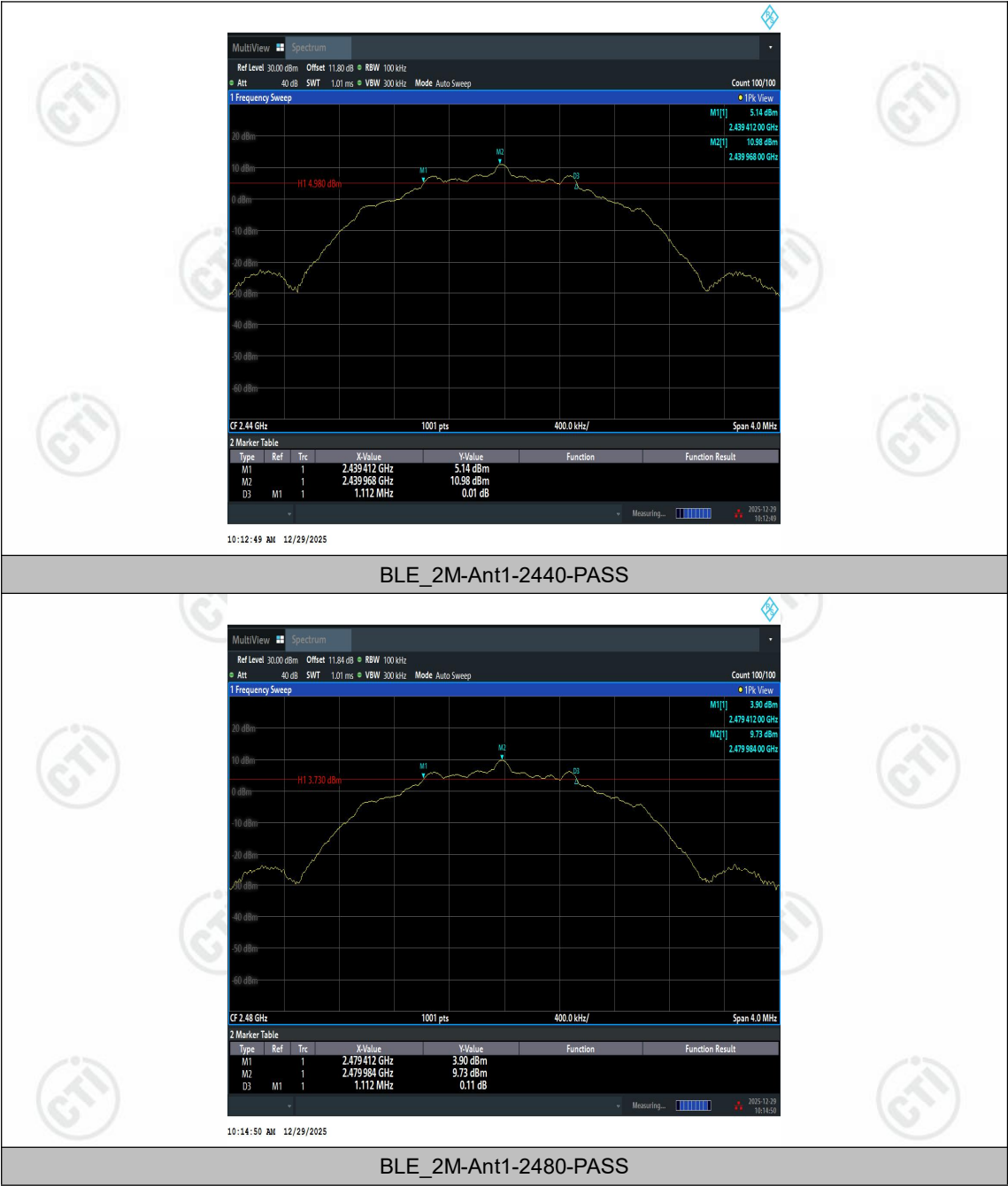
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.65	2402.30	0.5	PASS
BLE_1M	Ant1	2440	0.65	2439.65	2440.30	0.5	PASS
BLE_1M	Ant1	2480	0.65	2479.66	2480.30	0.5	PASS
BLE_2M	Ant1	2402	1.11	2401.42	2402.53	0.5	PASS
BLE_2M	Ant1	2440	1.11	2439.41	2440.52	0.5	PASS
BLE_2M	Ant1	2480	1.11	2479.41	2480.52	0.5	PASS

Test Graphs







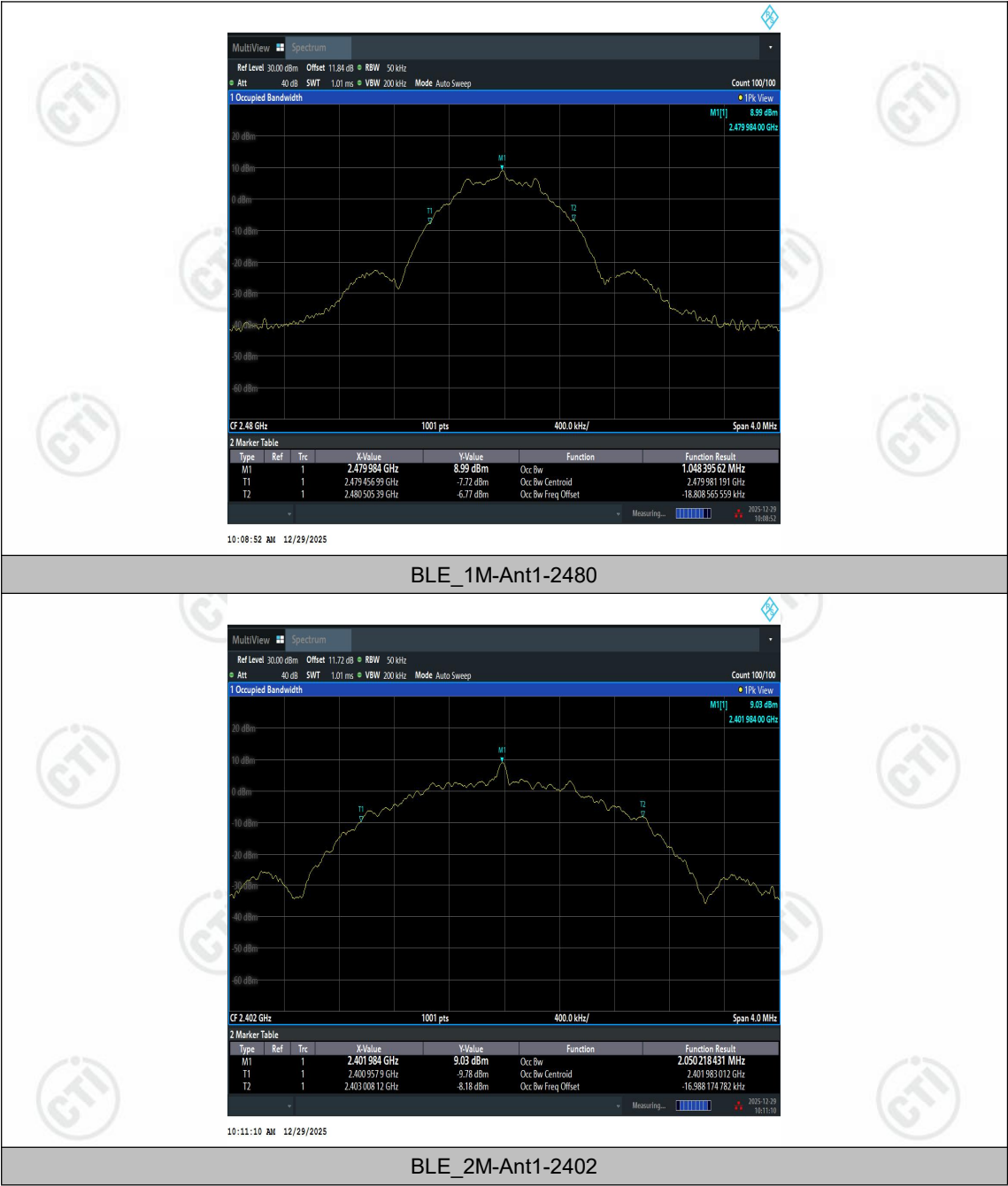
Appendix B: Occupied Channel Bandwidth

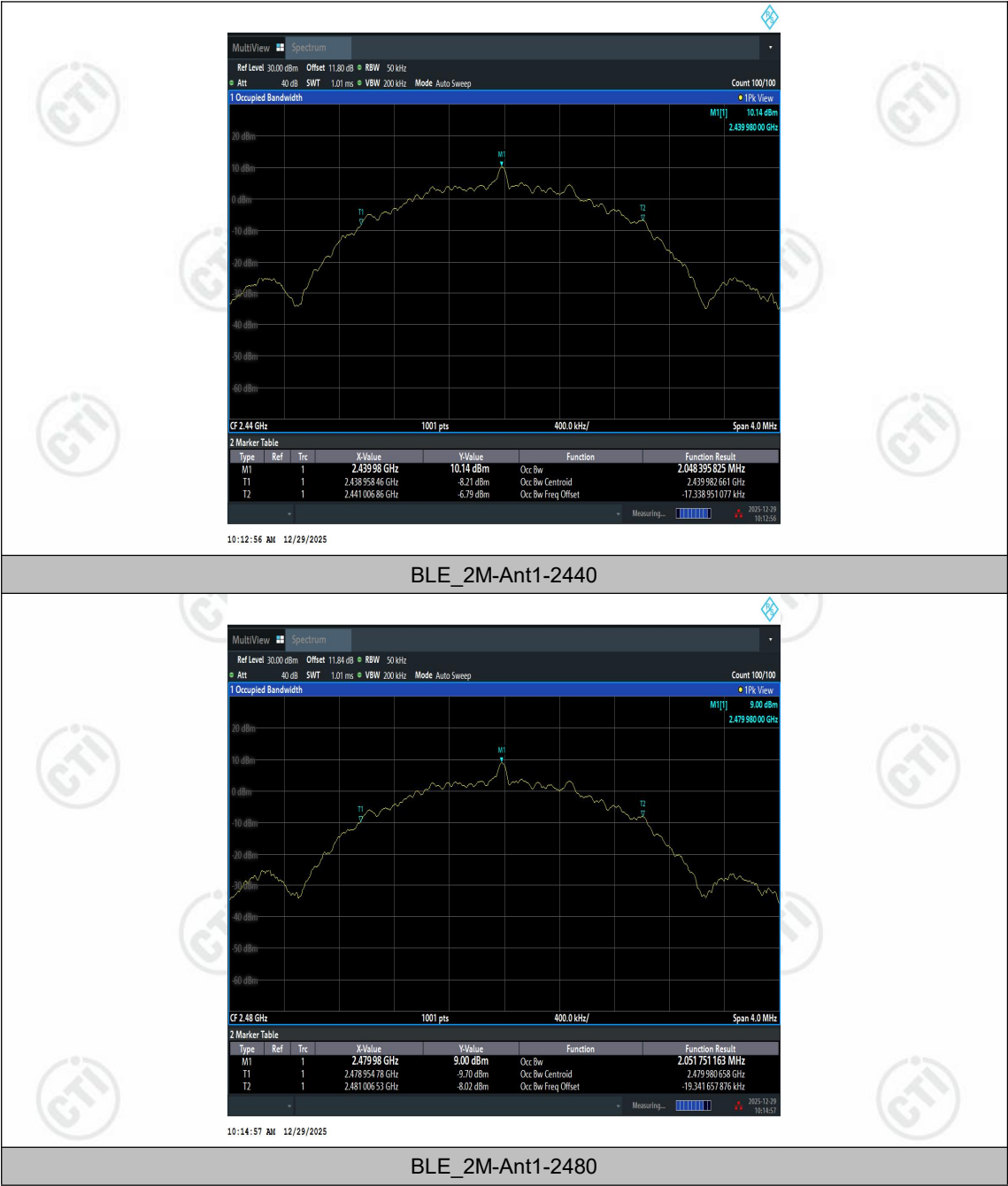
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0442	2401.4546	2402.4988
BLE_1M	Ant1	2440	1.0443	2439.4567	2440.5010
BLE_1M	Ant1	2480	1.0484	2479.4570	2480.5054
BLE_2M	Ant1	2402	2.0502	2400.9579	2403.0081
BLE_2M	Ant1	2440	2.0484	2438.9585	2441.0069
BLE_2M	Ant1	2480	2.0518	2478.9548	2481.0065

Test Graphs





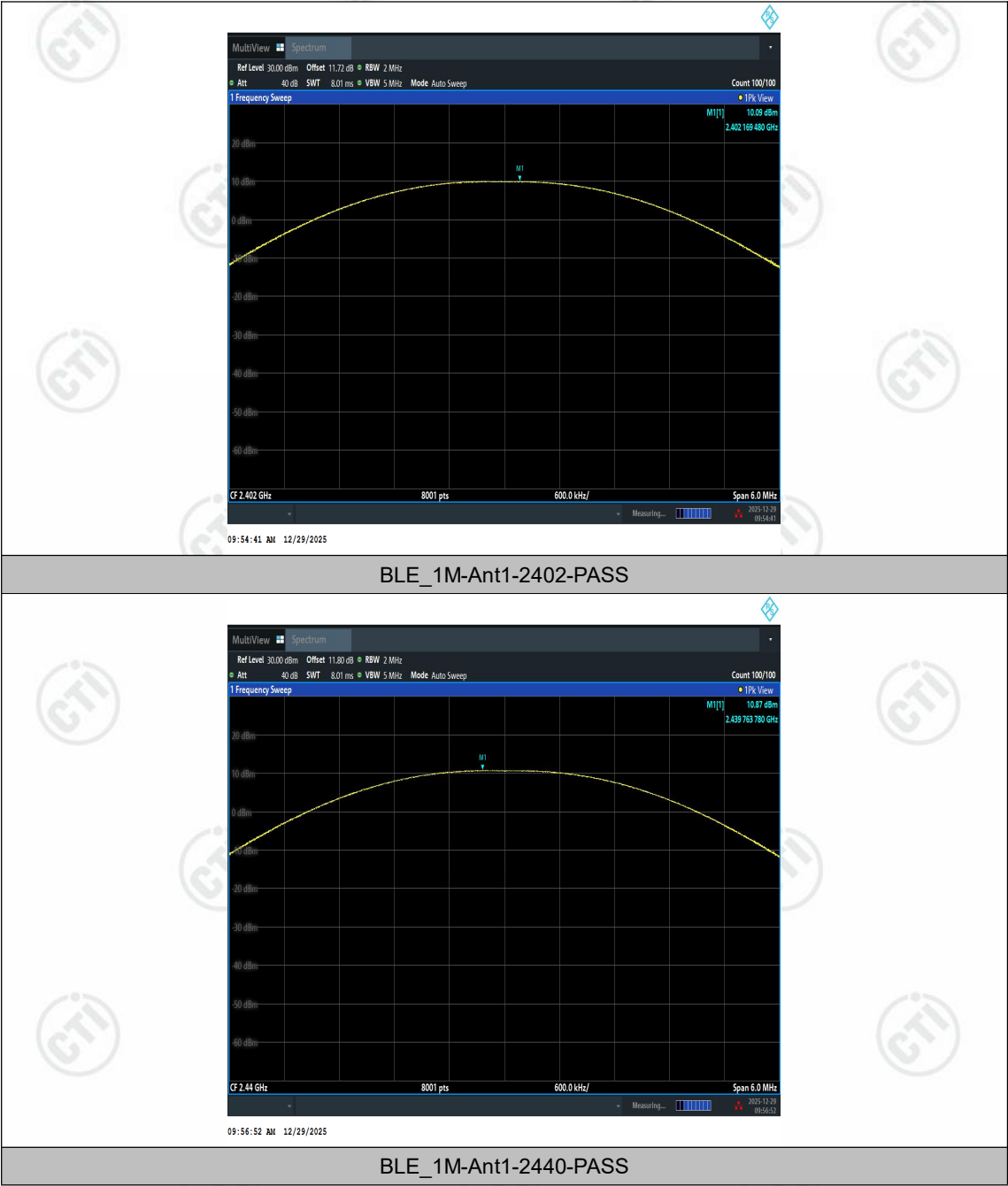


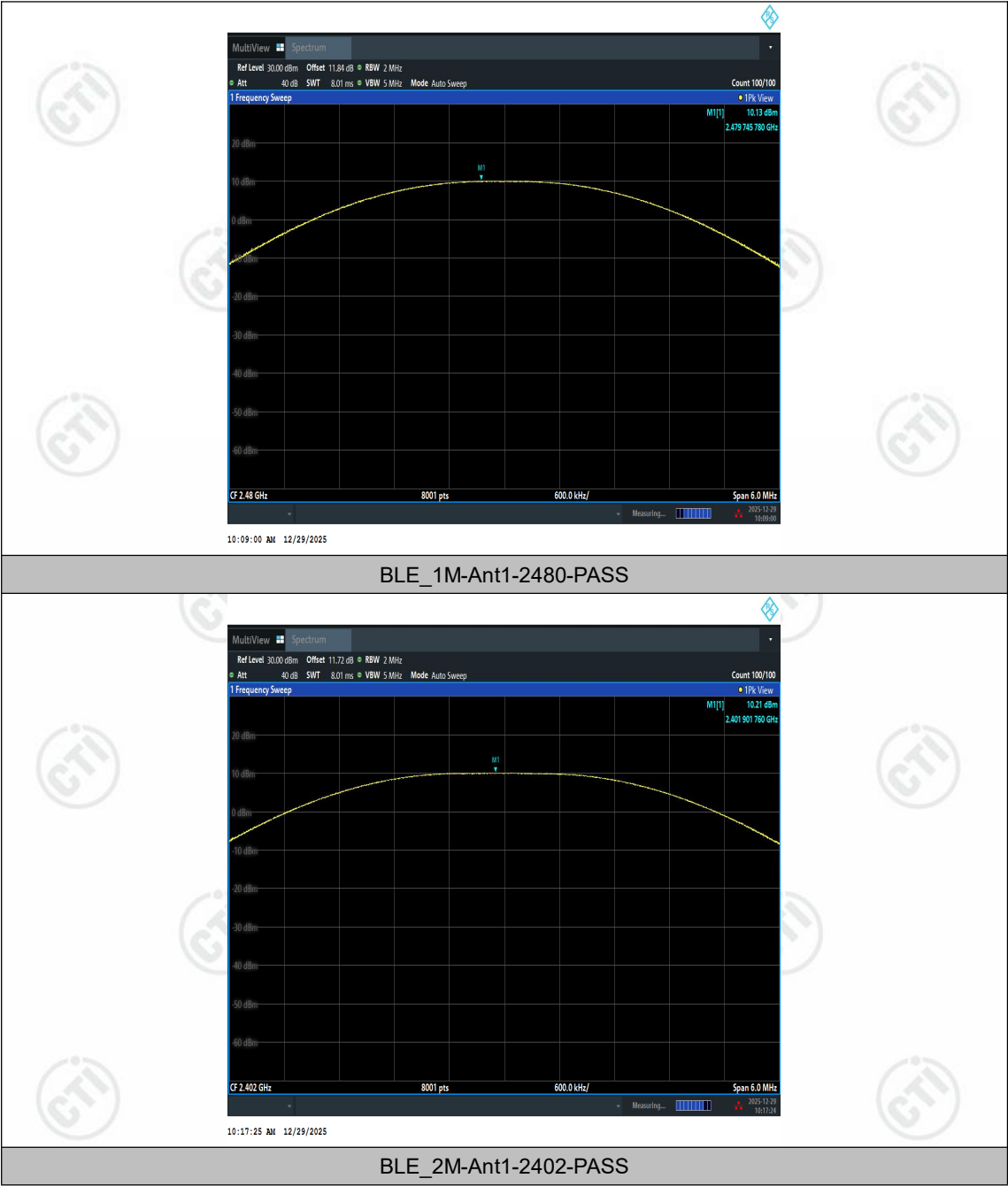
Appendix C: Maximum conducted output power

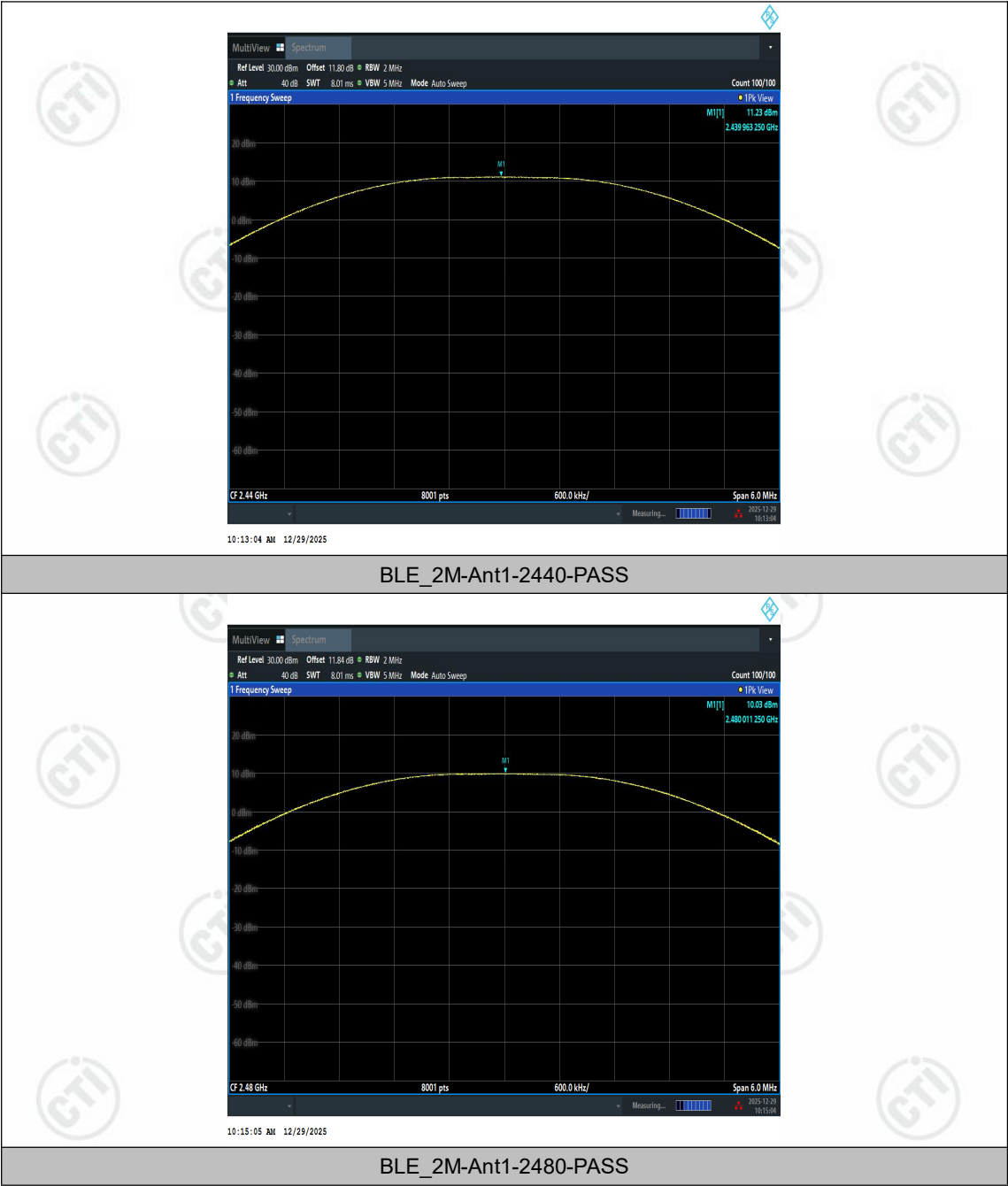
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	10.09	≤30	PASS
BLE_1M	Ant1	2440	10.87	≤30	PASS
BLE_1M	Ant1	2480	10.13	≤30	PASS
BLE_2M	Ant1	2402	10.21	≤30	PASS
BLE_2M	Ant1	2440	11.23	≤30	PASS
BLE_2M	Ant1	2480	10.03	≤30	PASS

Test Graphs Peak





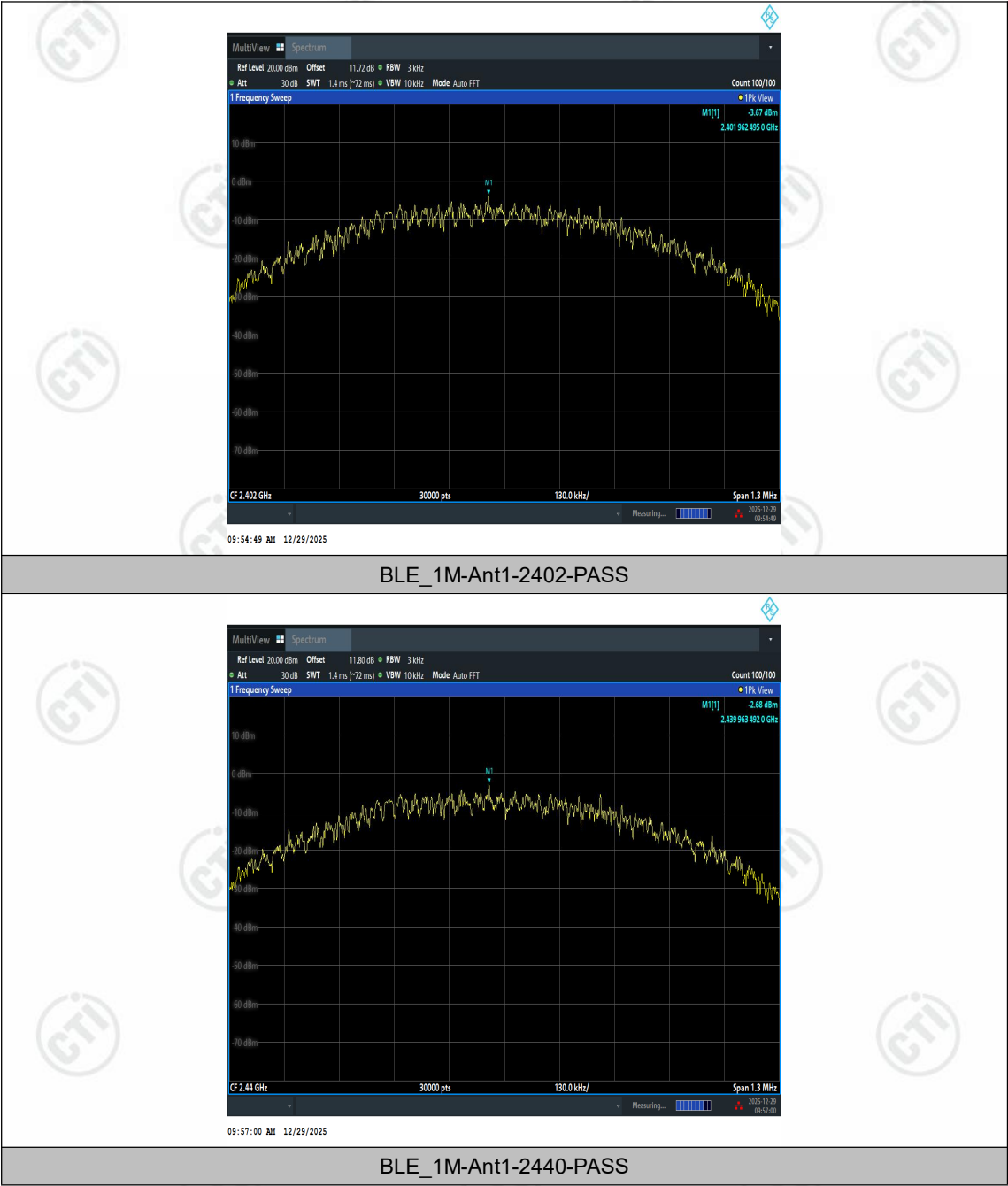


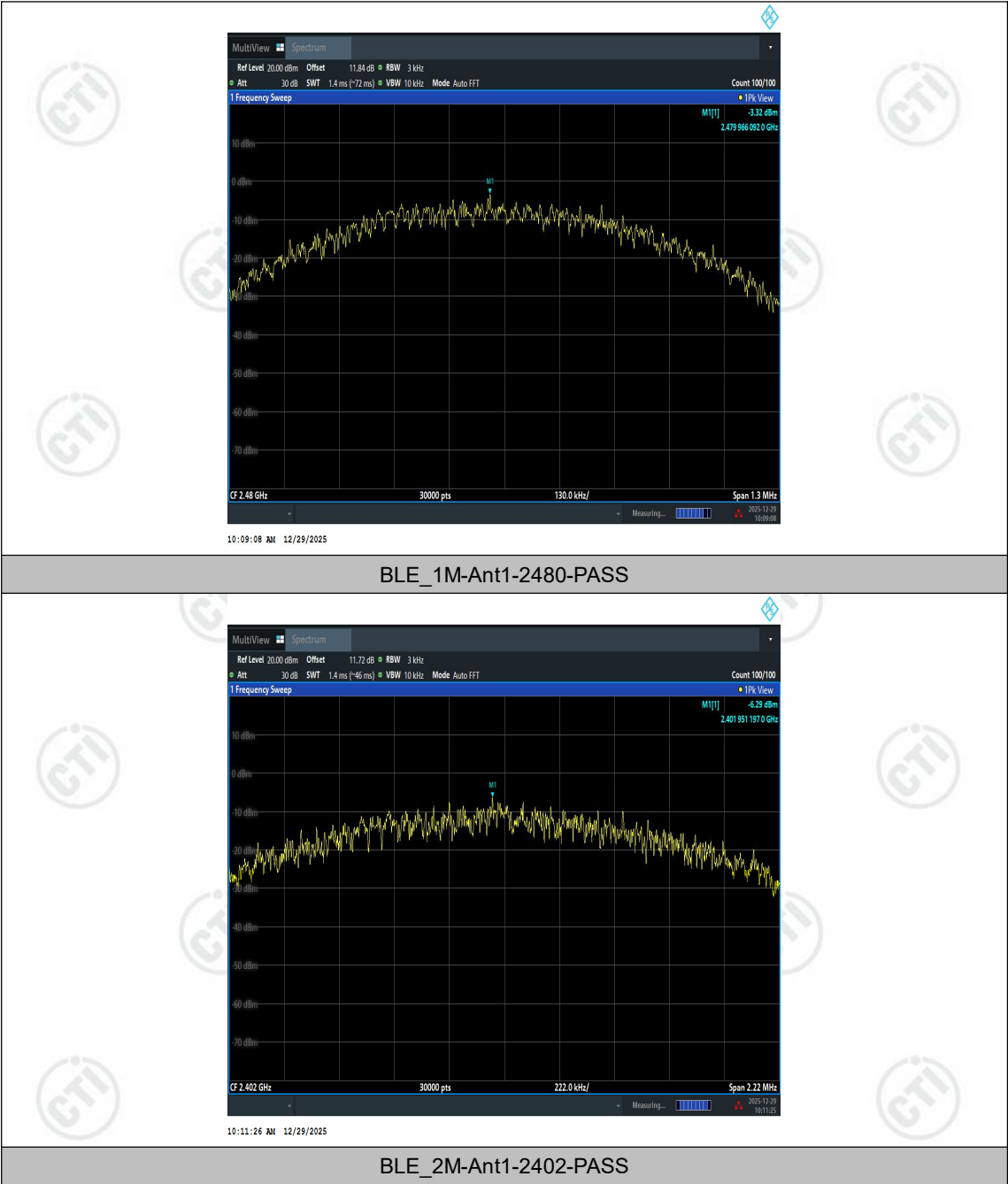
Appendix D: Maximum power spectral density

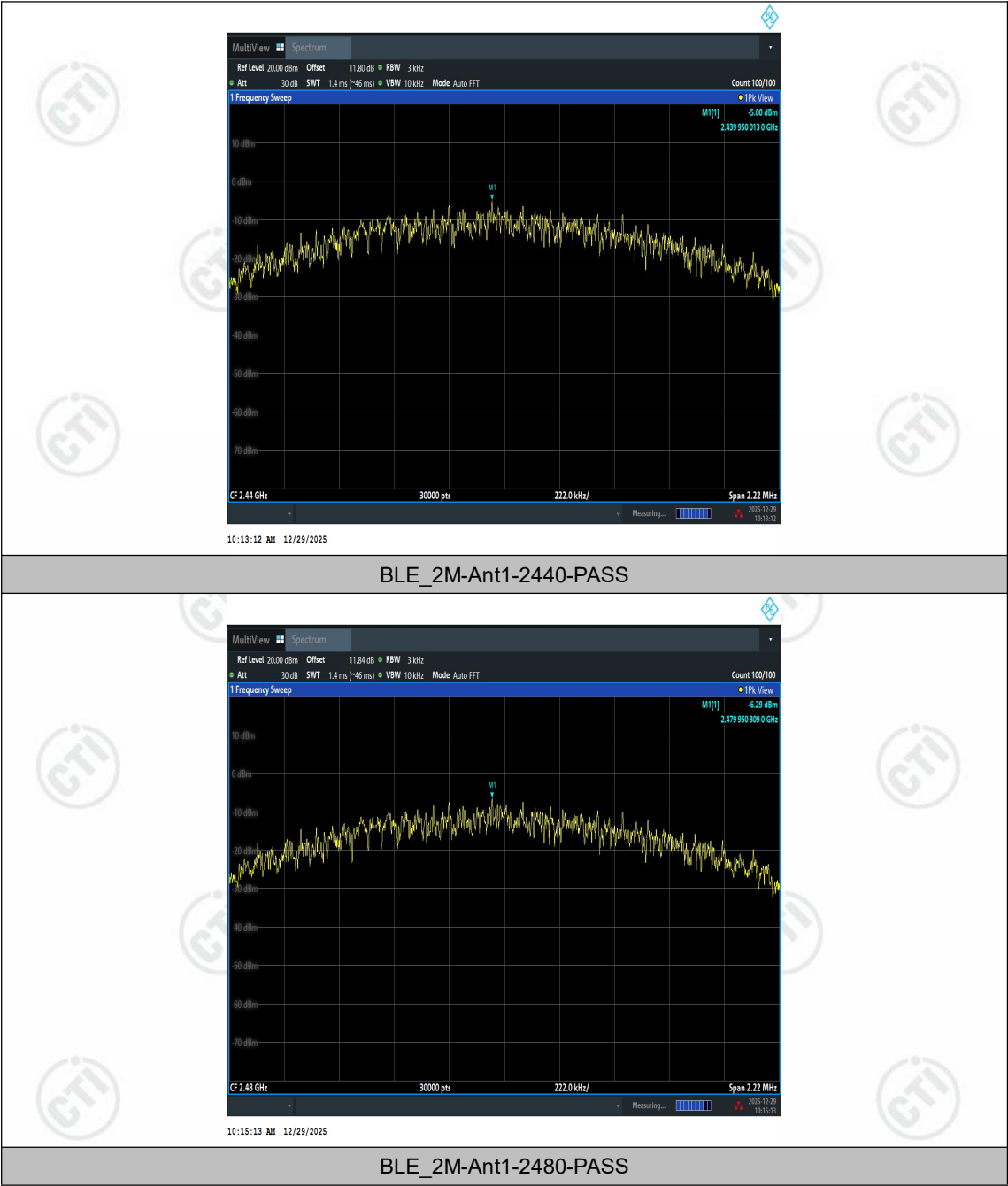
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.67	≤8.00	PASS
BLE_1M	Ant1	2440	-2.68	≤8.00	PASS
BLE_1M	Ant1	2480	-3.32	≤8.00	PASS
BLE_2M	Ant1	2402	-6.29	≤8.00	PASS
BLE_2M	Ant1	2440	-5.00	≤8.00	PASS
BLE_2M	Ant1	2480	-6.29	≤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	9.68	-40.76	≤-10.32	PASS
BLE_1M	Ant1	High	2480	9.79	-45.85	≤-10.21	PASS
BLE_2M	Ant1	Low	2402	9.87	-31.36	≤-10.13	PASS
BLE_2M	Ant1	High	2480	9.57	-44.95	≤-10.43	PASS

Test Graphs



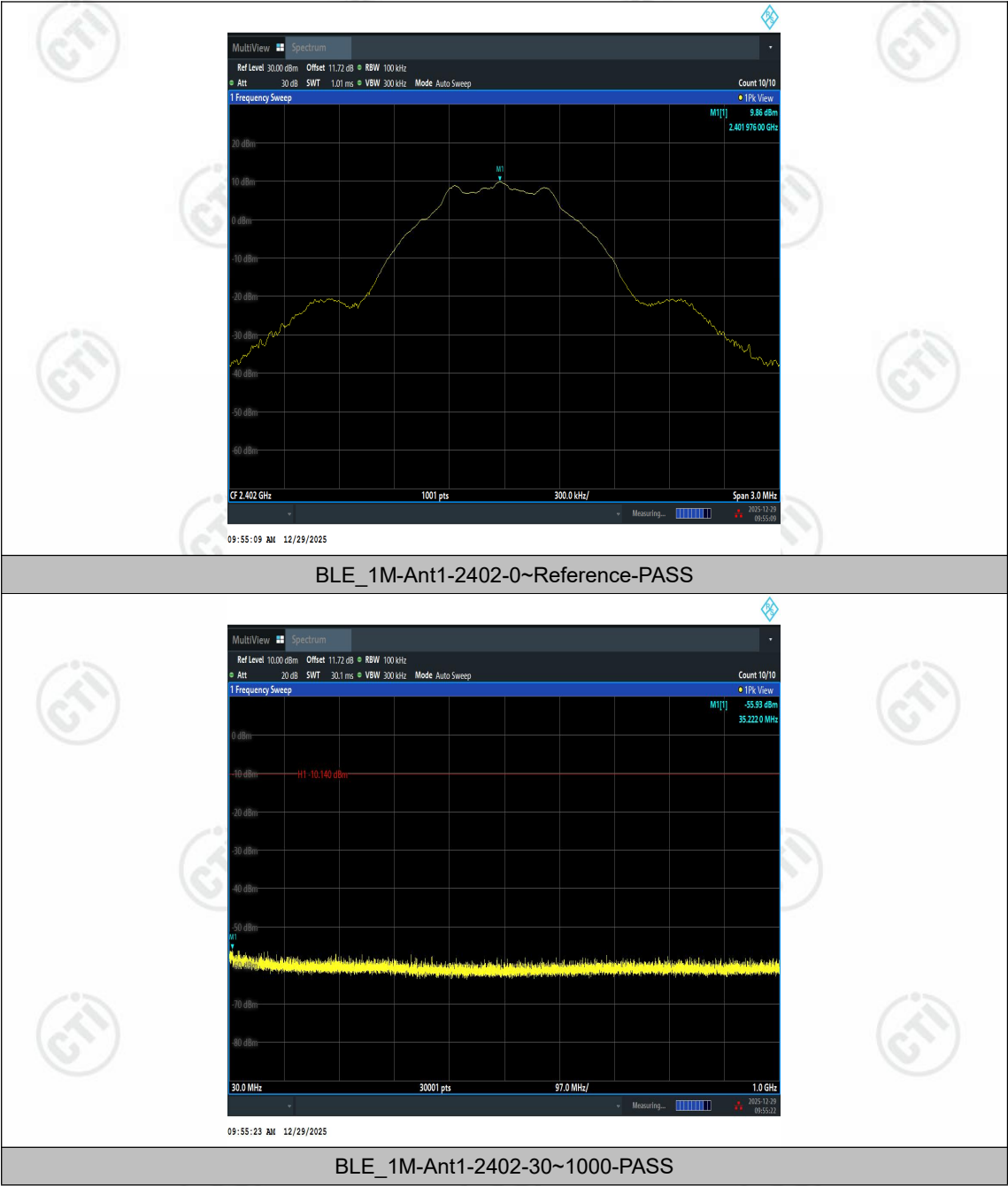


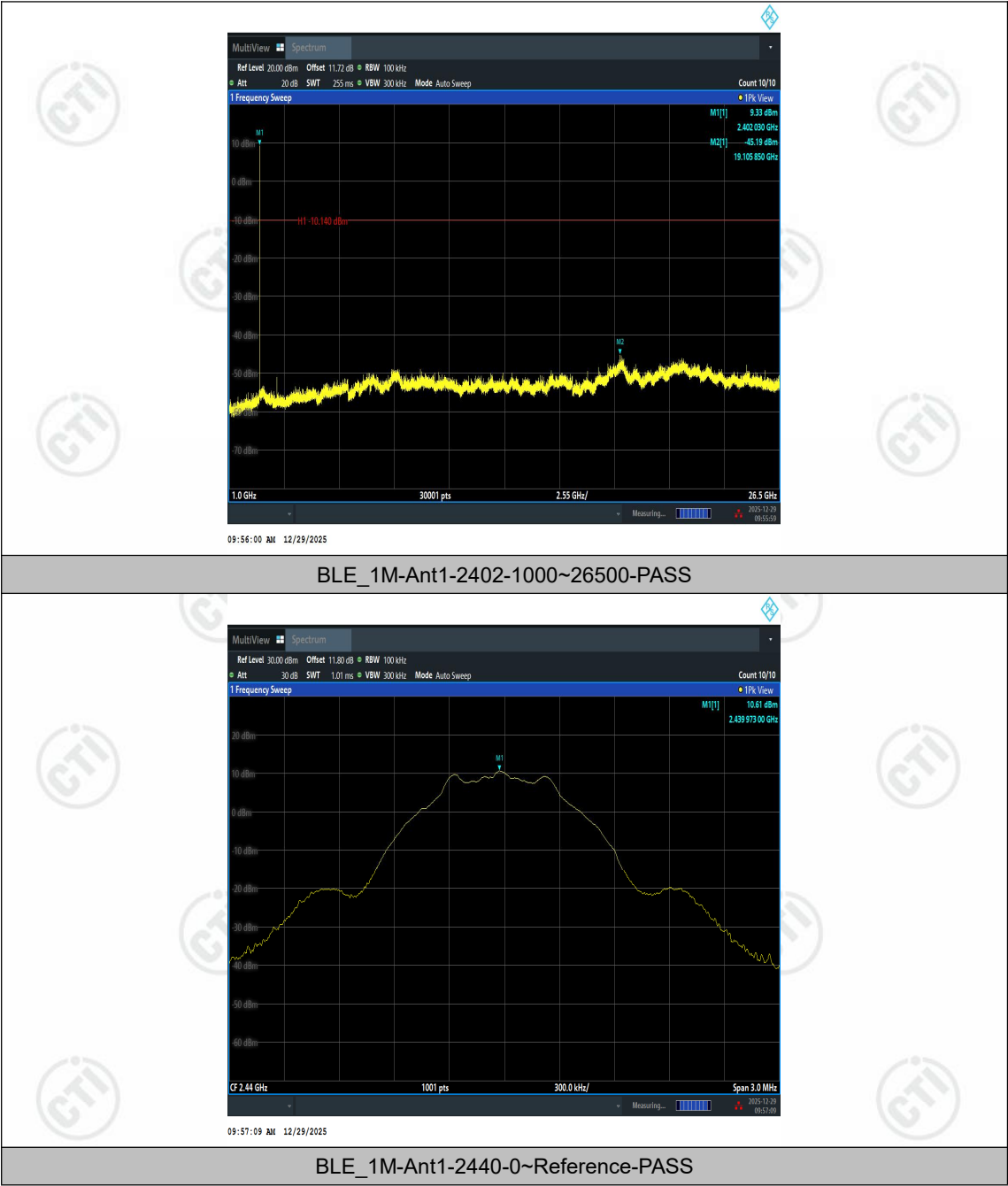
Appendix F: Conducted Spurious Emission

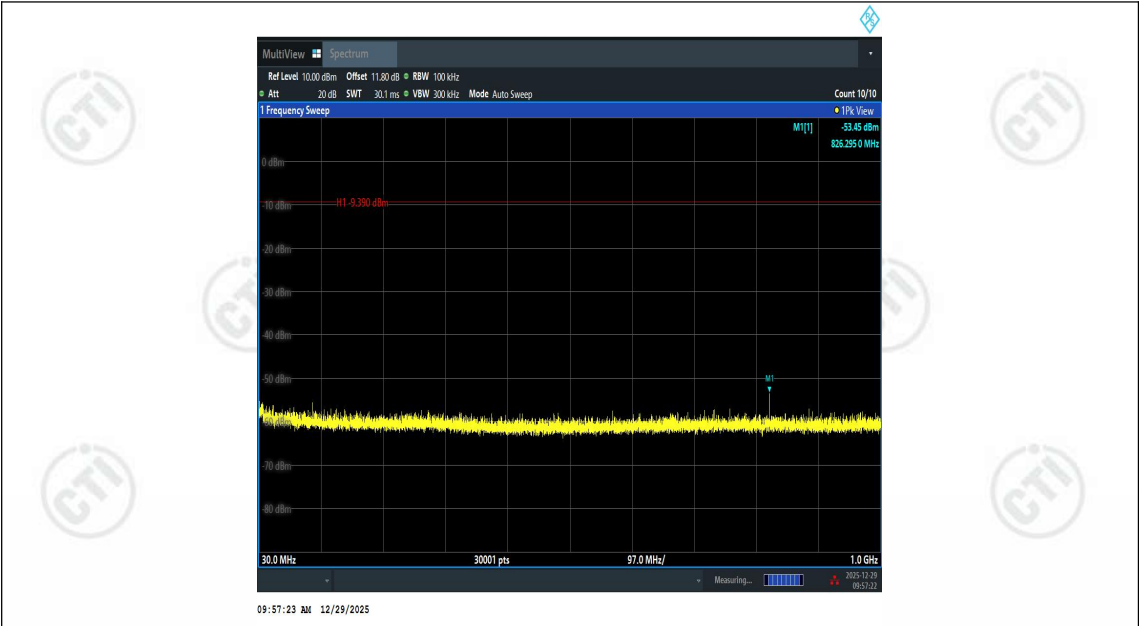
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	9.86	9.86	---	PASS
BLE_1M	Ant1	2402	30~1000	9.86	-55.93	≤-10.14	PASS
BLE_1M	Ant1	2402	1000~26500	9.86	-45.19	≤-10.14	PASS
BLE_1M	Ant1	2440	0~Reference	10.61	10.61	---	PASS
BLE_1M	Ant1	2440	30~1000	10.61	-53.45	≤-9.39	PASS
BLE_1M	Ant1	2440	1000~26500	10.61	-44.86	≤-9.39	PASS
BLE_1M	Ant1	2480	0~Reference	10.08	10.08	---	PASS
BLE_1M	Ant1	2480	30~1000	10.08	-55.02	≤-9.92	PASS
BLE_1M	Ant1	2480	1000~26500	10.08	-45.34	≤-9.92	PASS
BLE_2M	Ant1	2402	0~Reference	10.04	10.04	---	PASS
BLE_2M	Ant1	2402	30~1000	10.04	-54.86	≤-9.96	PASS
BLE_2M	Ant1	2402	1000~26500	10.04	-44.86	≤-9.96	PASS
BLE_2M	Ant1	2440	0~Reference	11.00	11.00	---	PASS
BLE_2M	Ant1	2440	30~1000	11.00	-54.99	≤-9	PASS
BLE_2M	Ant1	2440	1000~26500	11.00	-45.28	≤-9	PASS
BLE_2M	Ant1	2480	0~Reference	9.79	9.79	---	PASS
BLE_2M	Ant1	2480	30~1000	9.79	-54.65	≤-10.21	PASS
BLE_2M	Ant1	2480	1000~26500	9.79	-45.13	≤-10.21	PASS

Test Graphs



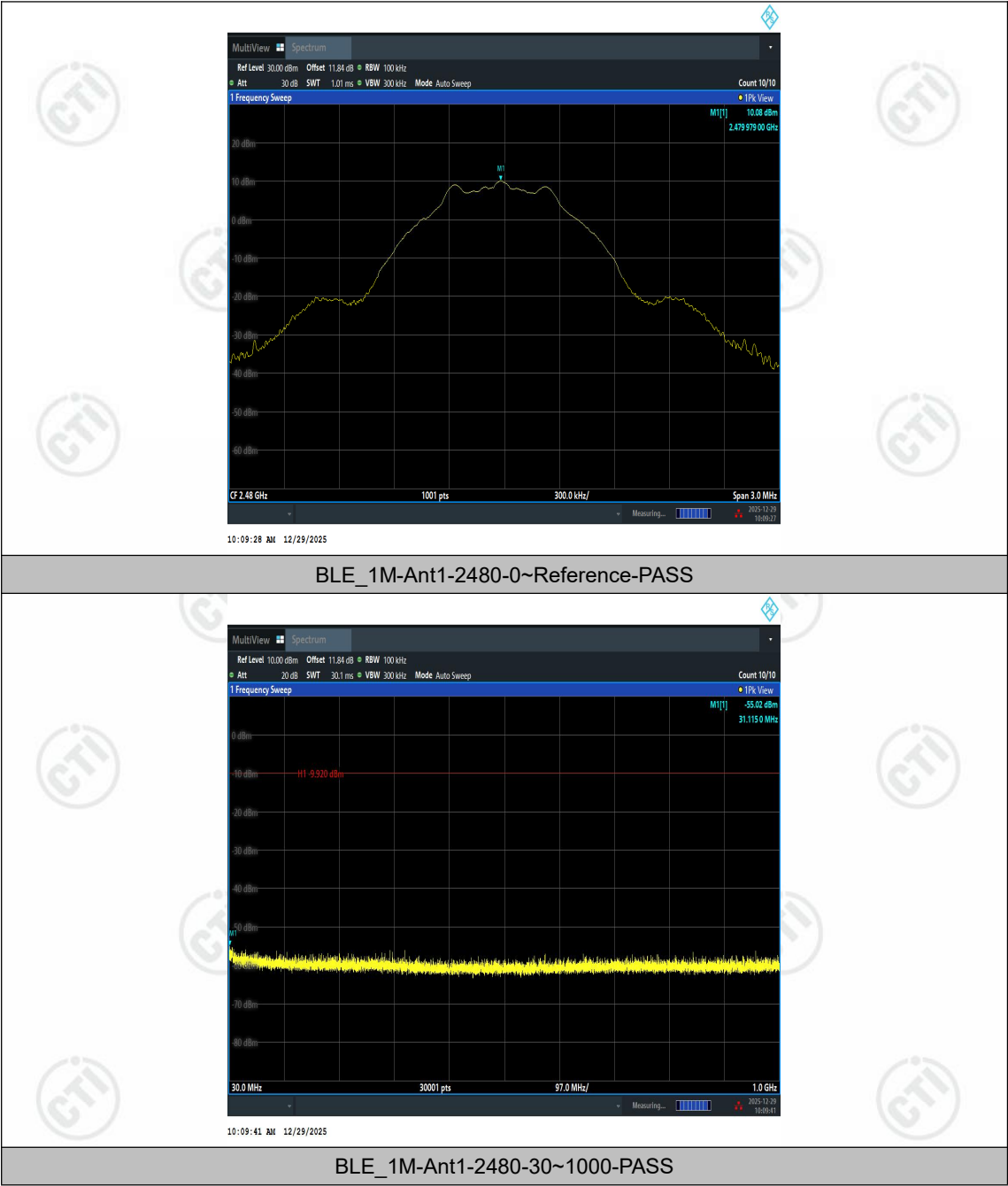


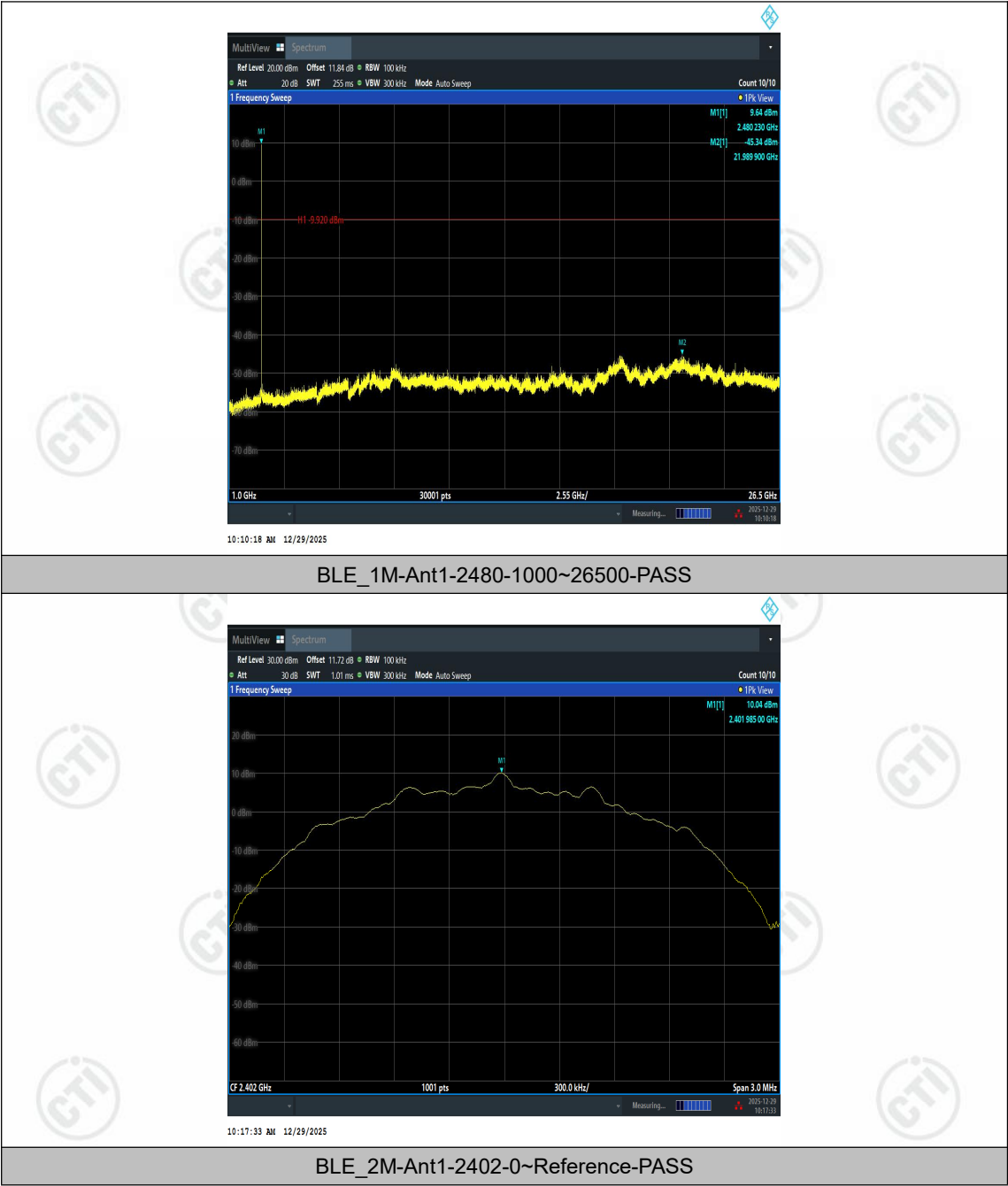


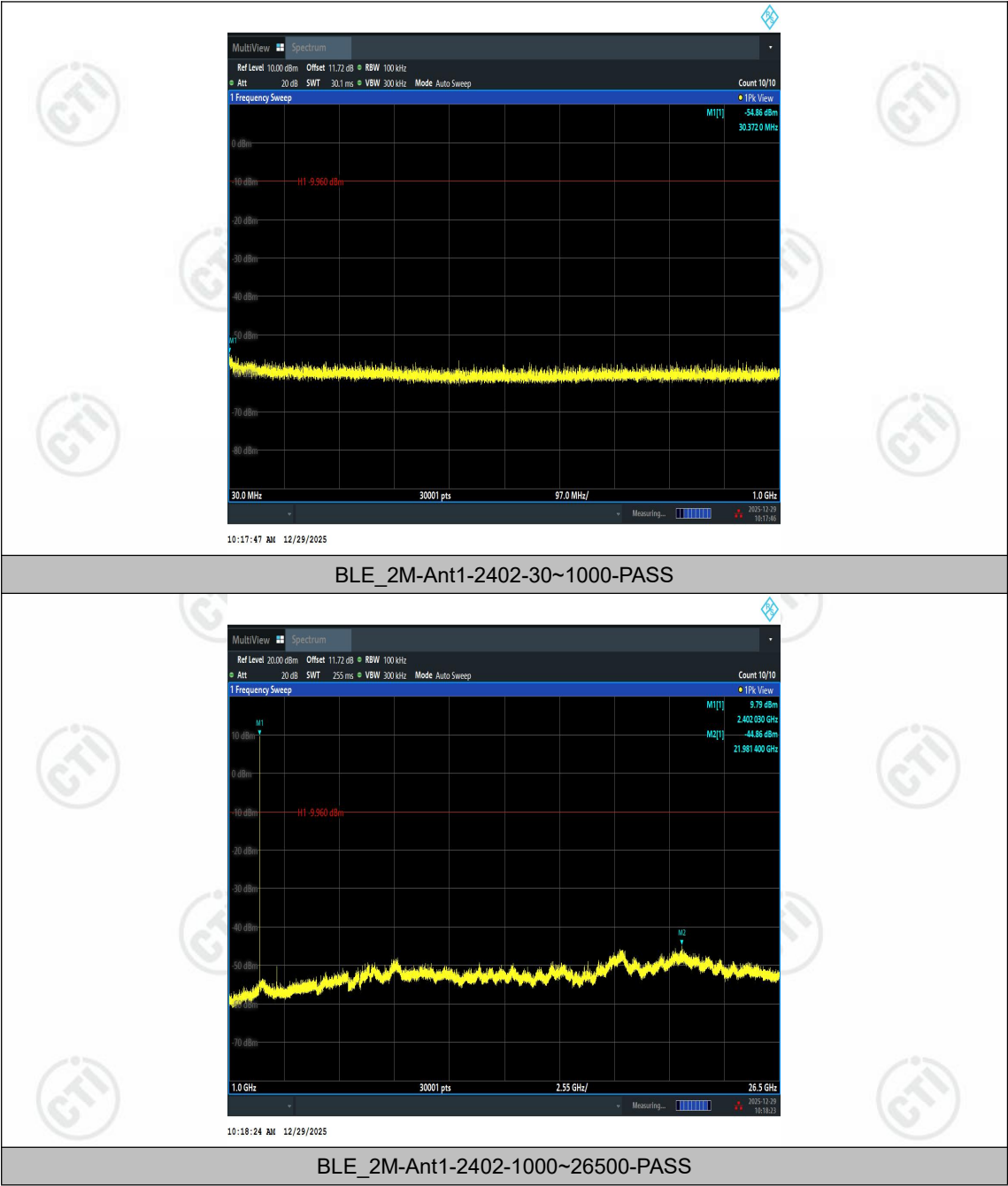
BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

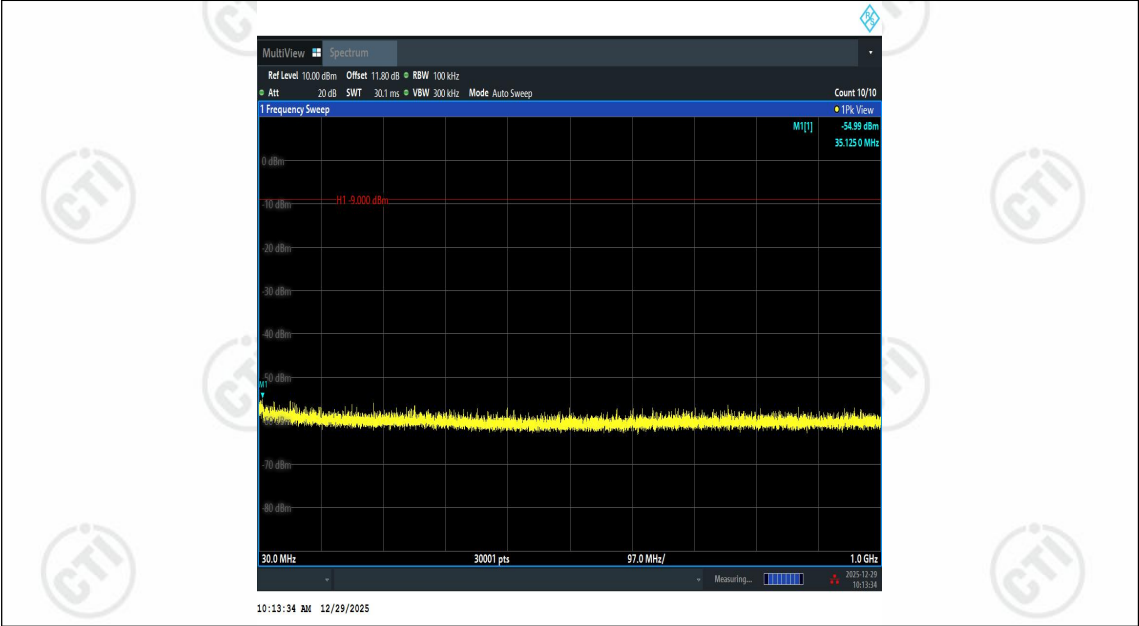




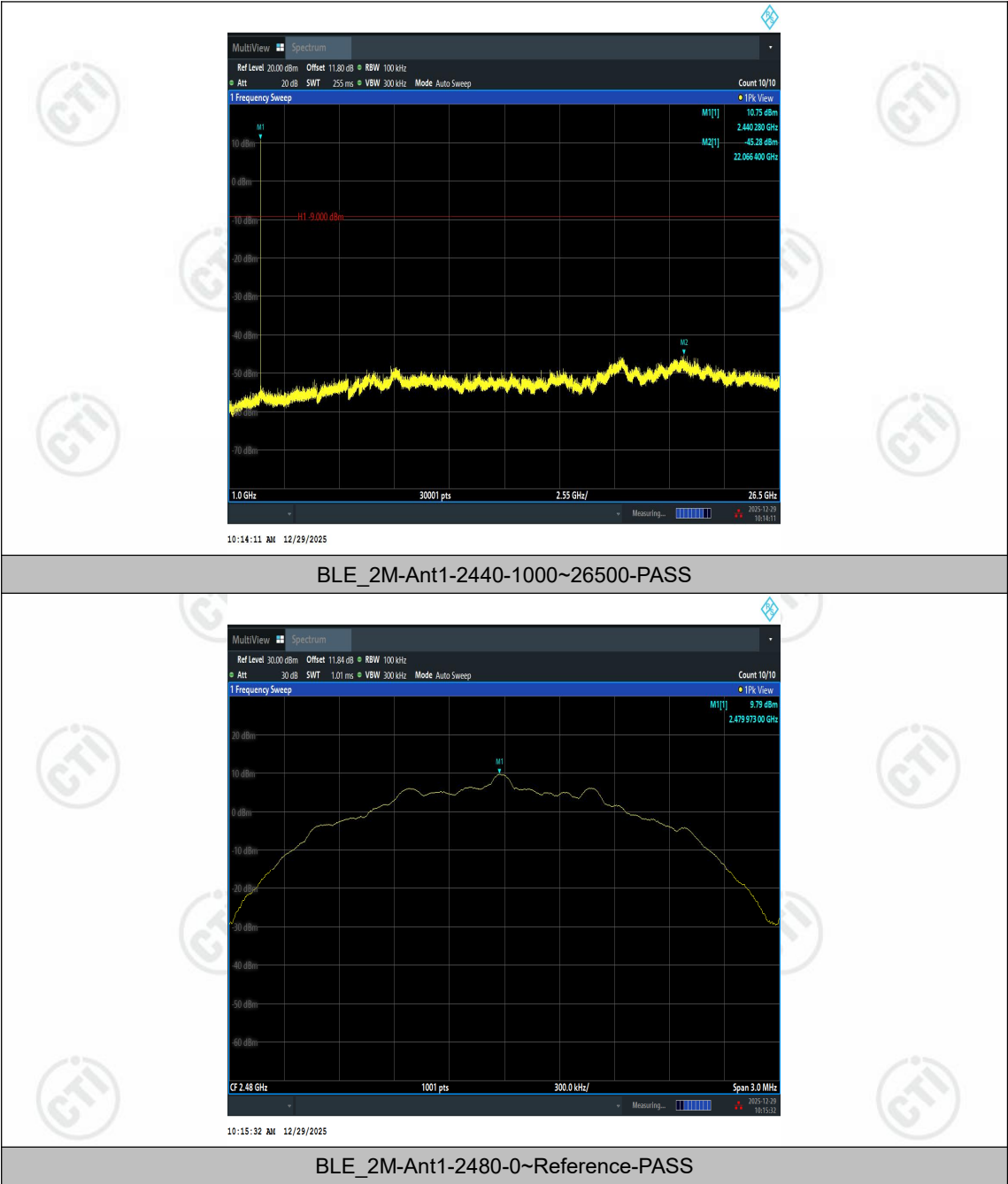


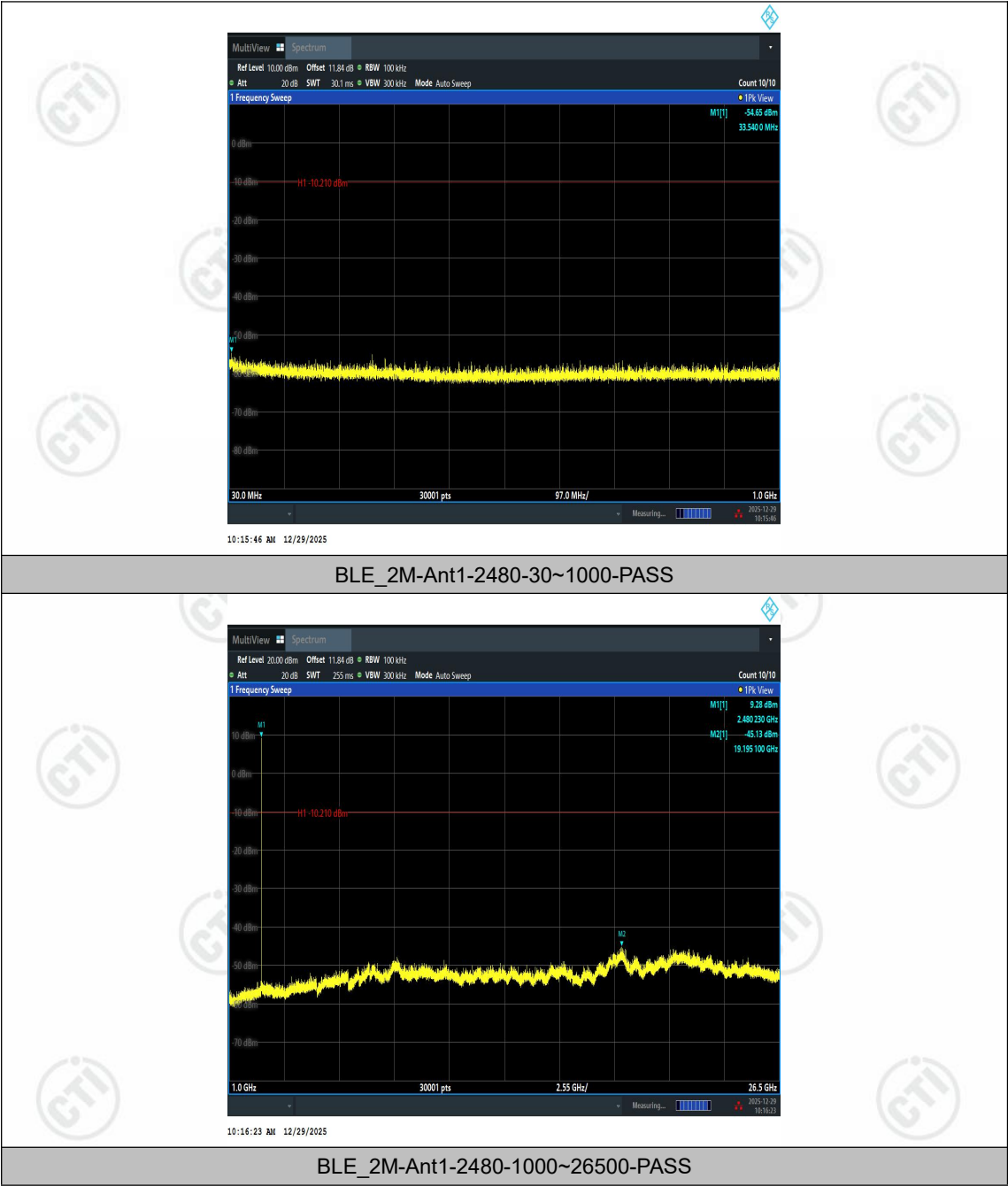


BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS





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	2.15	97.67	0.10
BLE_1M	Ant1	2440	2.10	2.15	97.67	0.10
BLE_1M	Ant1	2480	2.10	2.15	97.67	0.10
BLE_2M	Ant1	2402	1.06	1.10	96.36	0.16
BLE_2M	Ant1	2440	1.06	1.10	96.36	0.16
BLE_2M	Ant1	2480	1.06	1.11	95.50	0.20

Test Graphs







*** End of Report ***