

Appendix: Bluetooth LE

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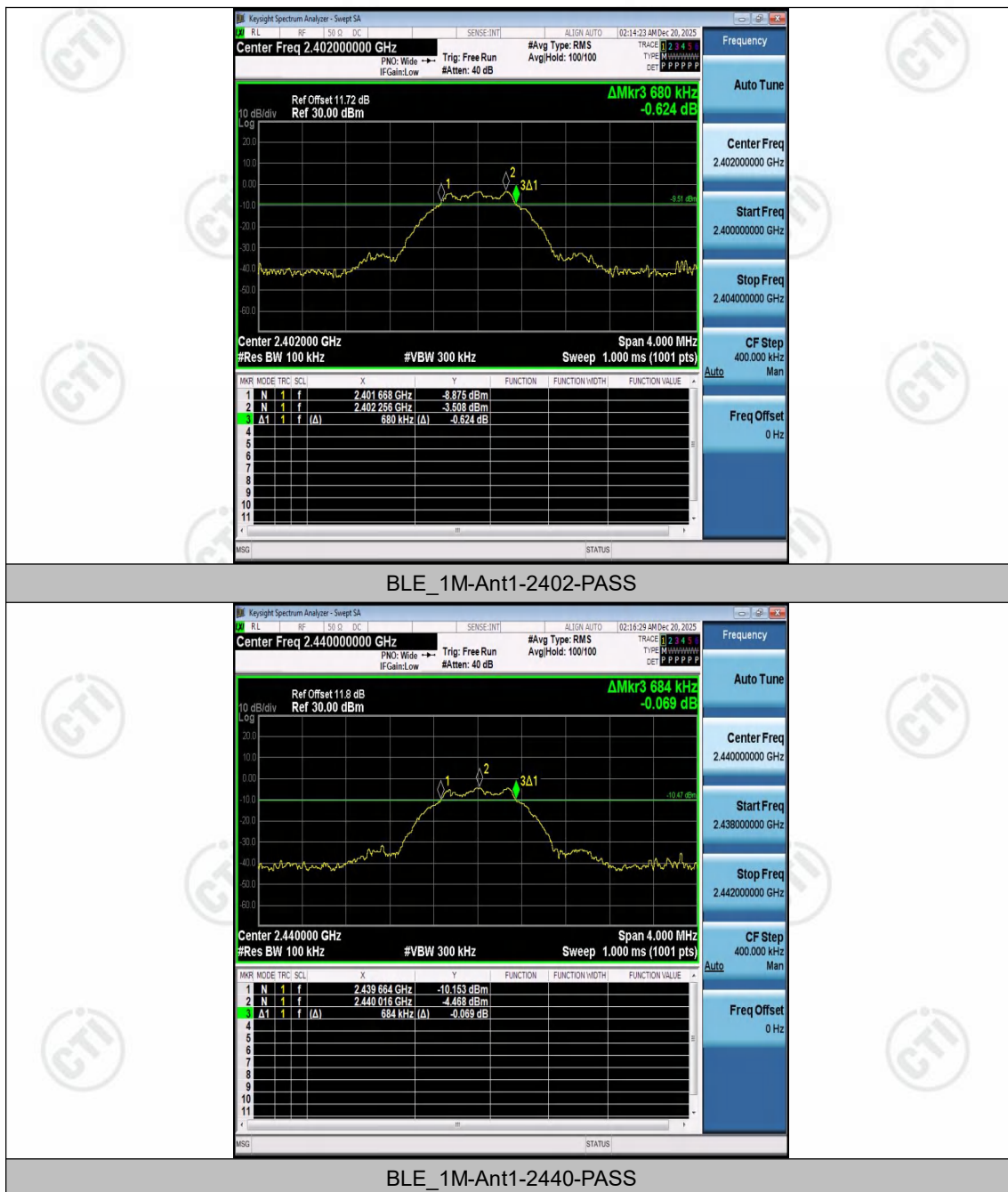
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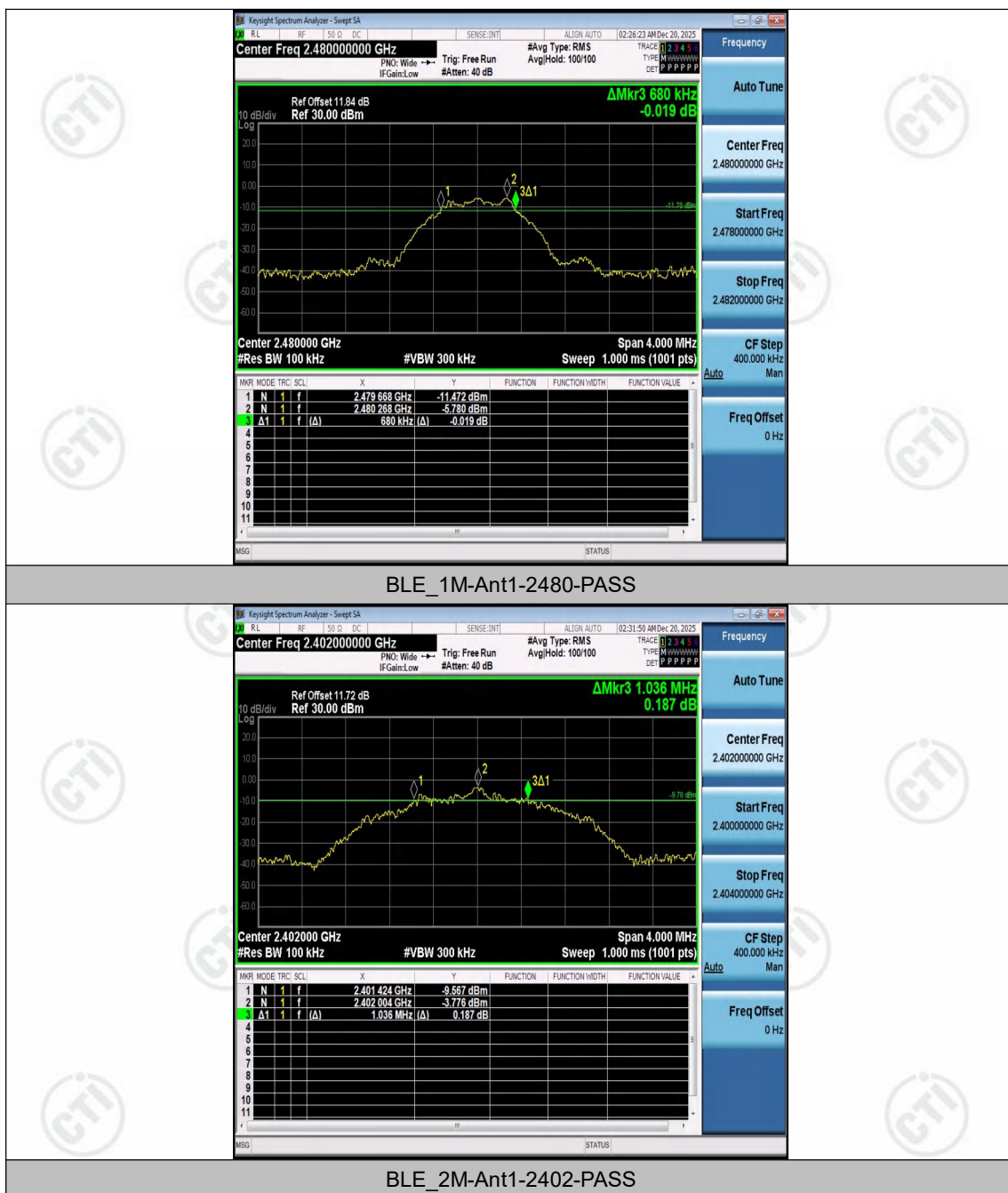
Appendix A: DTS Bandwidth

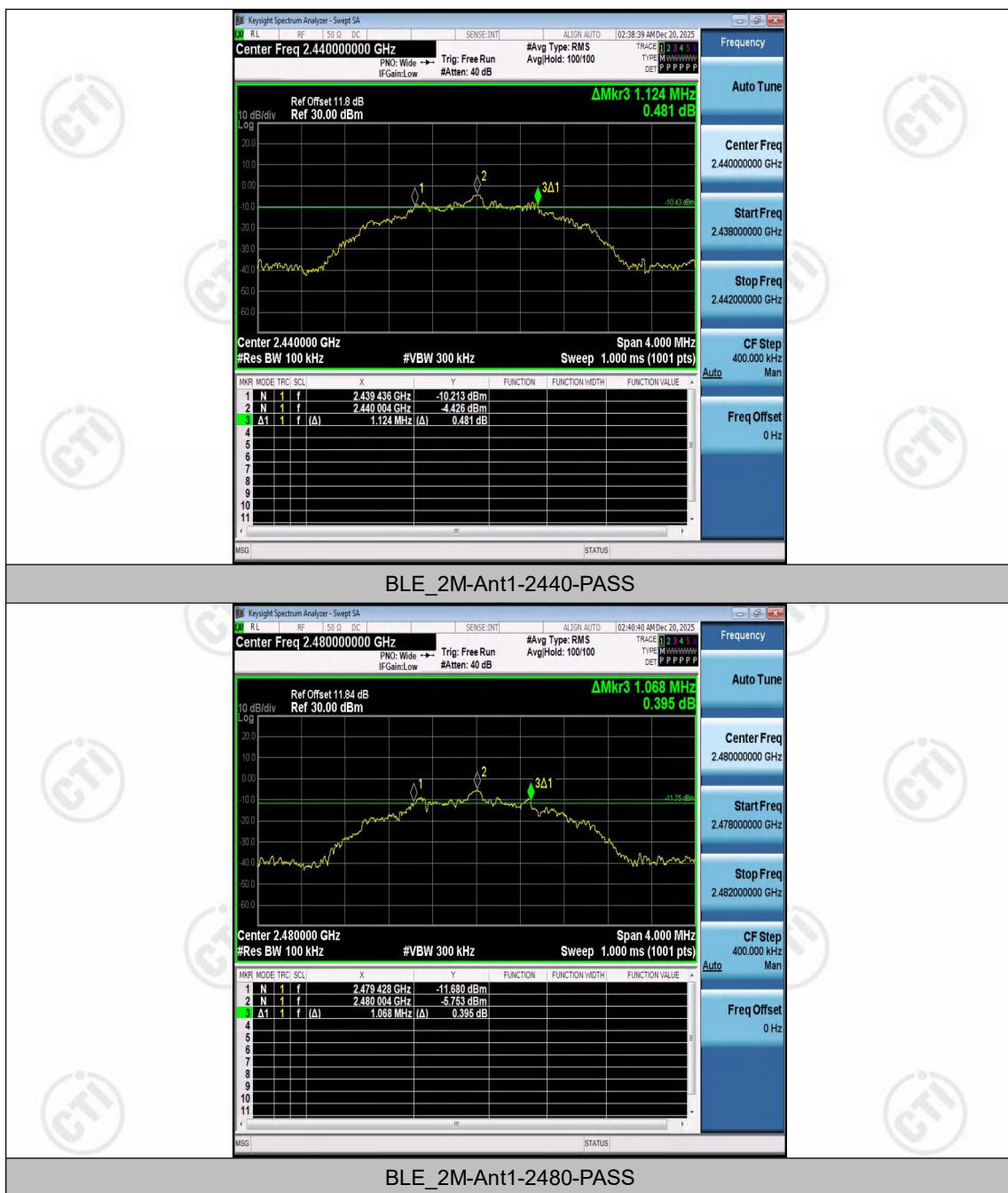
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.668	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.684	2439.664	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.668	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.036	2401.424	2402.460	0.5	PASS
BLE_2M	Ant1	2440	1.124	2439.436	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.068	2479.428	2480.496	0.5	PASS

Test Graphs







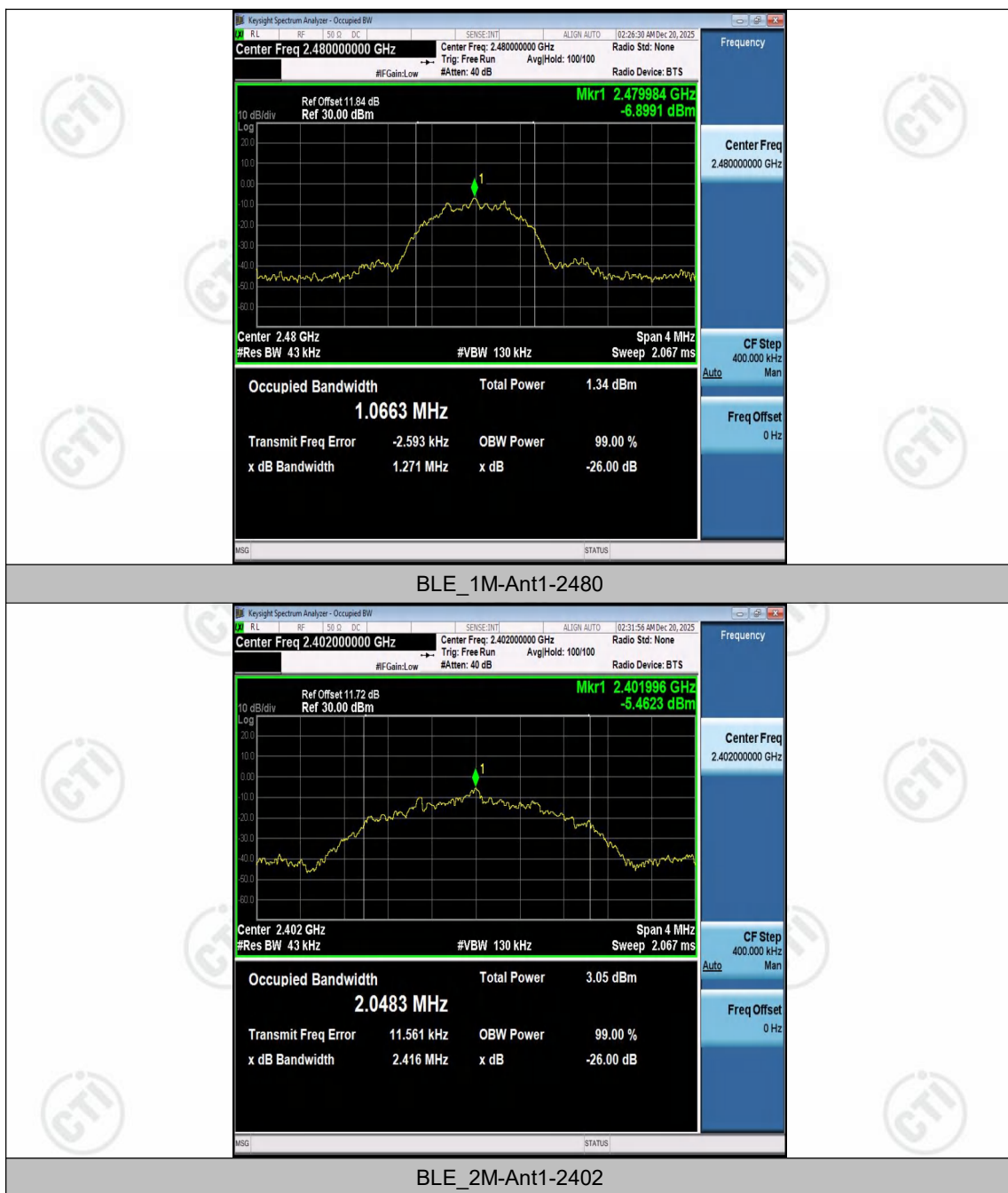
Appendix B: Occupied Channel Bandwidth

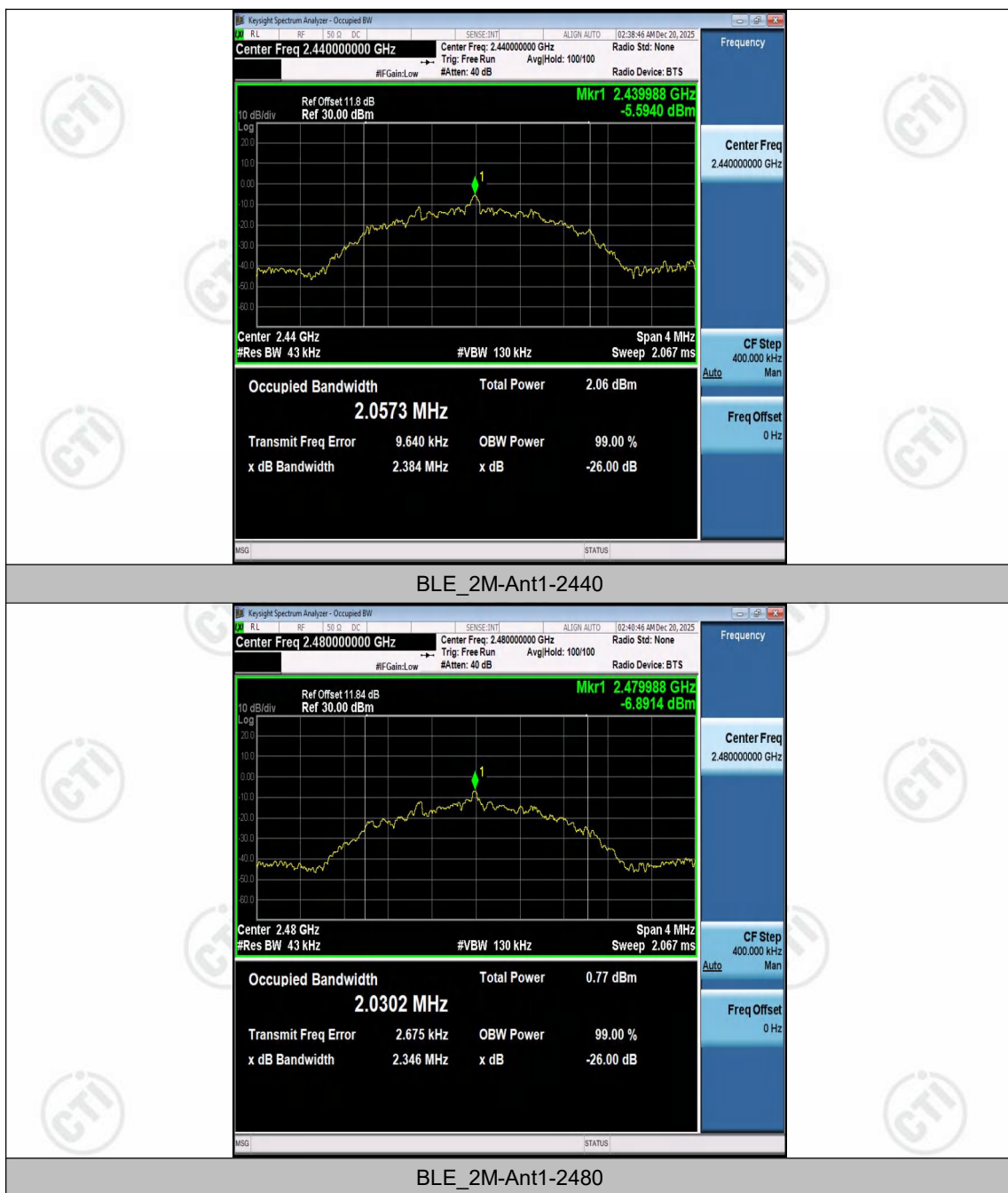
Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0448	2401.4816	2402.5264	---	---
BLE_1M	Ant1	2440	1.0610	2439.4692	2440.5302	---	---
BLE_1M	Ant1	2480	1.0663	2479.4643	2480.5306	---	---
BLE_2M	Ant1	2402	2.0483	2400.9874	2403.0357	---	---
BLE_2M	Ant1	2440	2.0573	2438.9810	2441.0383	---	---
BLE_2M	Ant1	2480	2.0302	2478.9876	2481.0178	---	---

Test Graphs



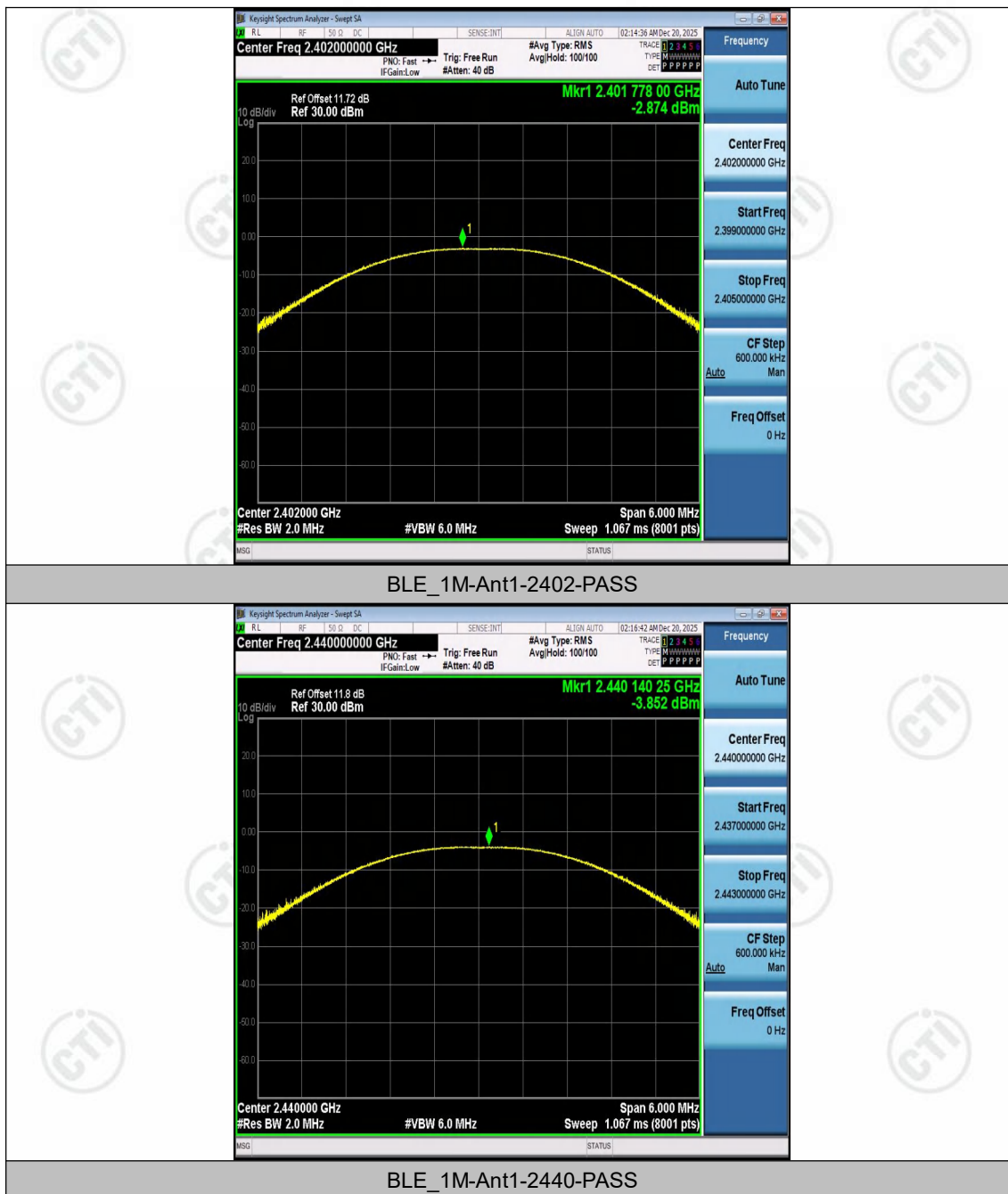


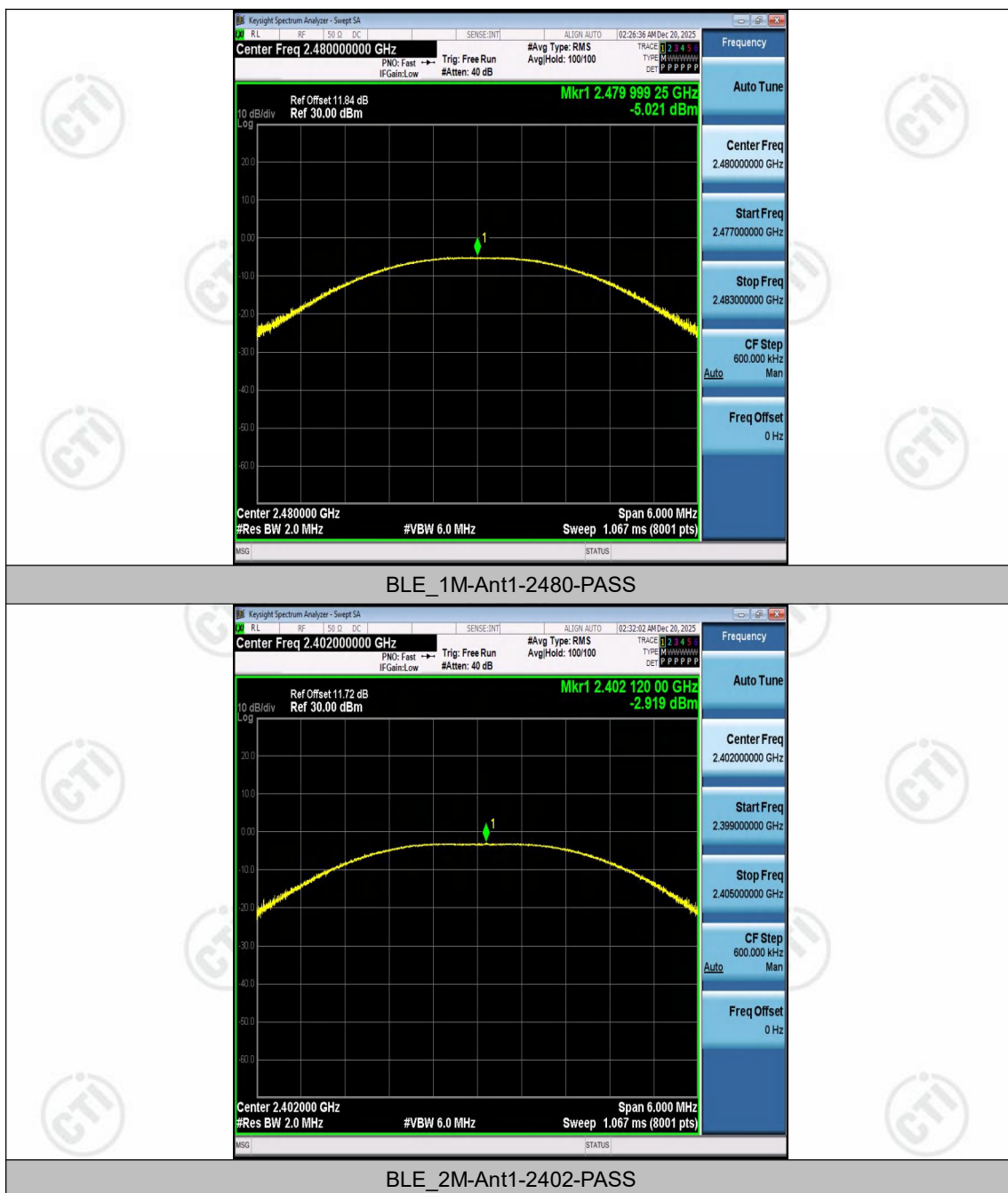


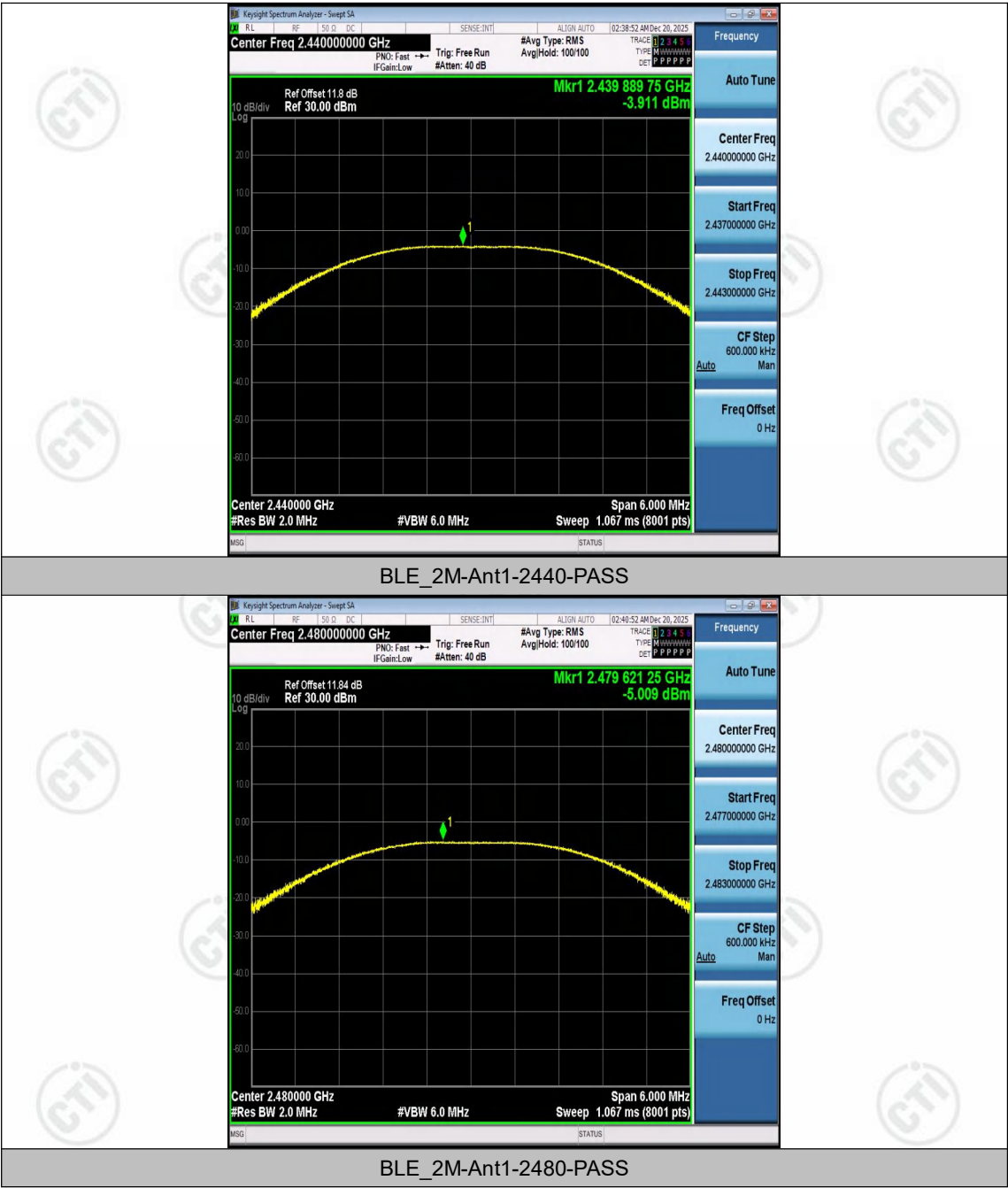
Appendix C: Maximum conducted output power**Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.87	≤30	PASS
BLE_1M	Ant1	2440	-3.85	≤30	PASS
BLE_1M	Ant1	2480	-5.02	≤30	PASS
BLE_2M	Ant1	2402	-2.92	≤30	PASS
BLE_2M	Ant1	2440	-3.91	≤30	PASS
BLE_2M	Ant1	2480	-5.01	≤30	PASS

Test Graphs Peak





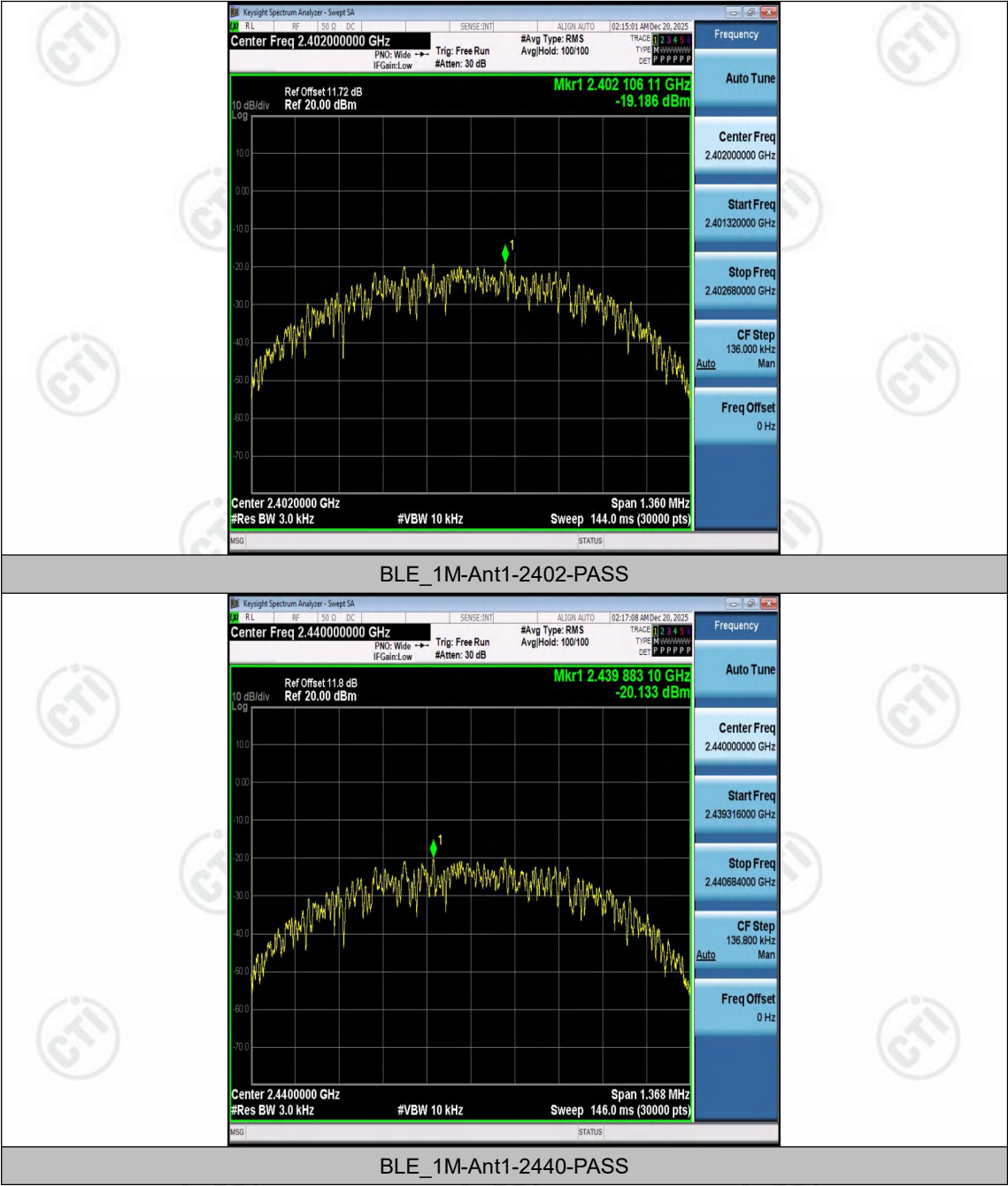


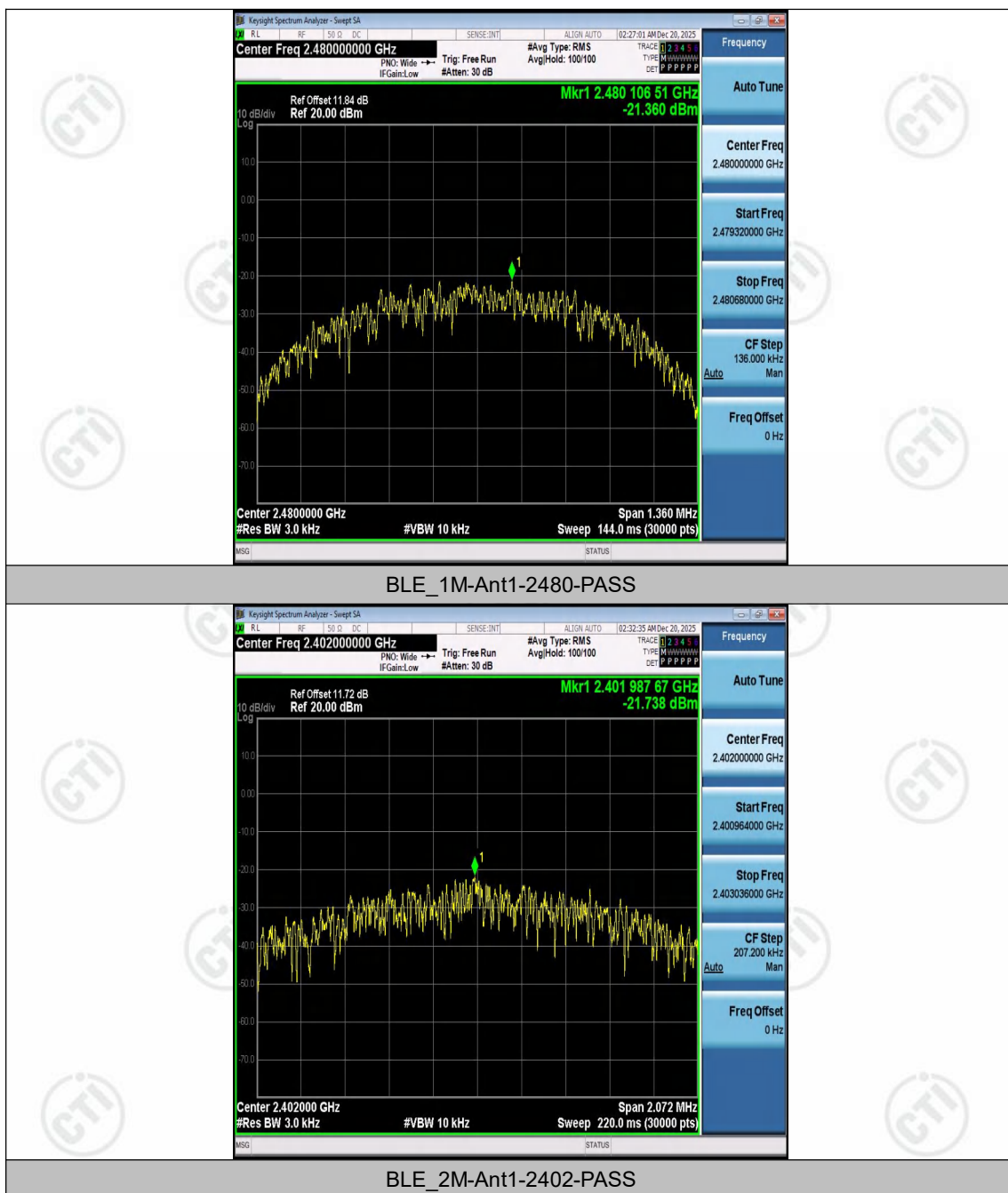
Appendix D: Maximum power spectral density

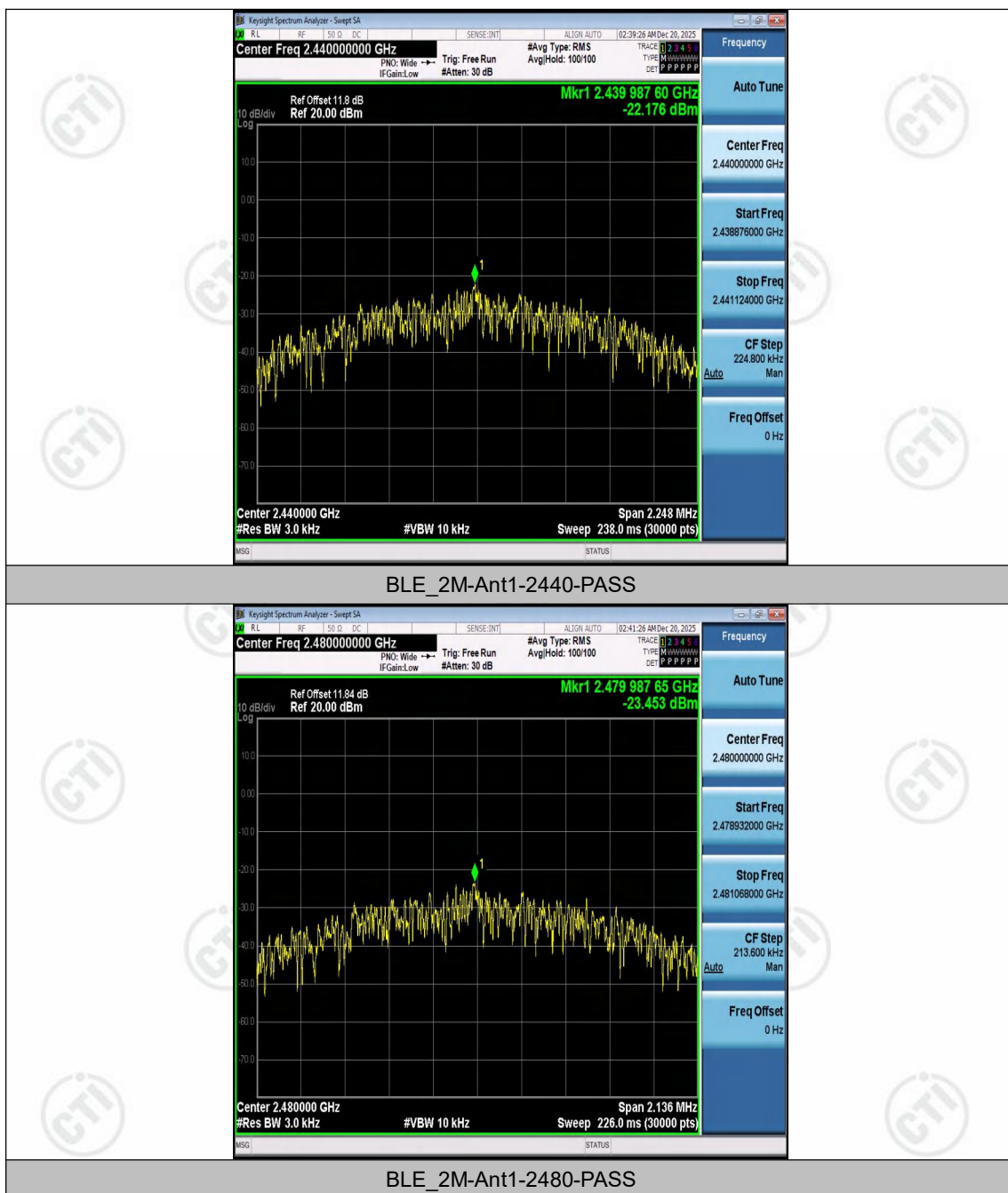
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.19	≤8.00	PASS
BLE_1M	Ant1	2440	-20.13	≤8.00	PASS
BLE_1M	Ant1	2480	-21.36	≤8.00	PASS
BLE_2M	Ant1	2402	-21.74	≤8.00	PASS
BLE_2M	Ant1	2440	-22.18	≤8.00	PASS
BLE_2M	Ant1	2480	-23.45	≤8.00	PASS

Test Graphs



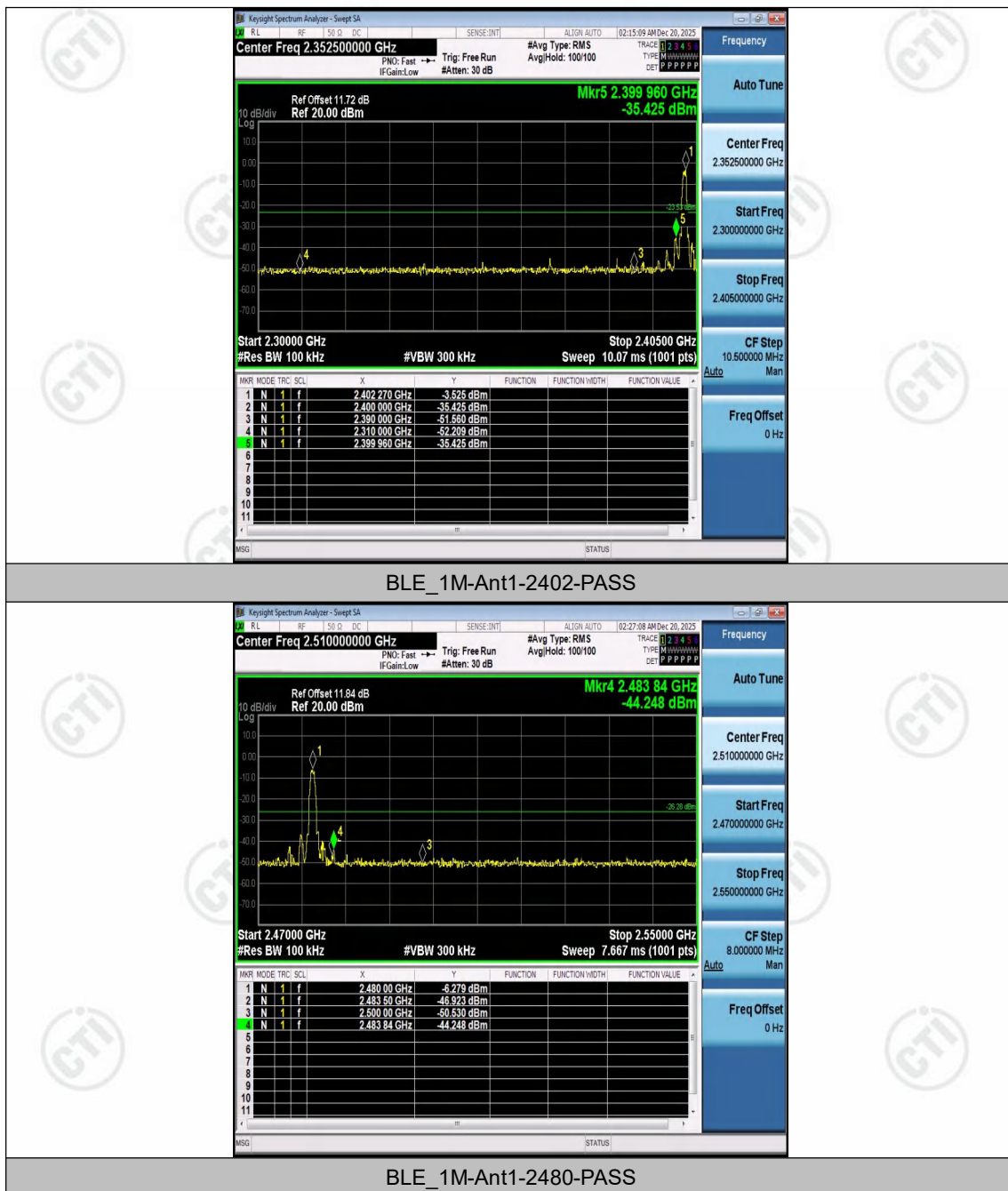


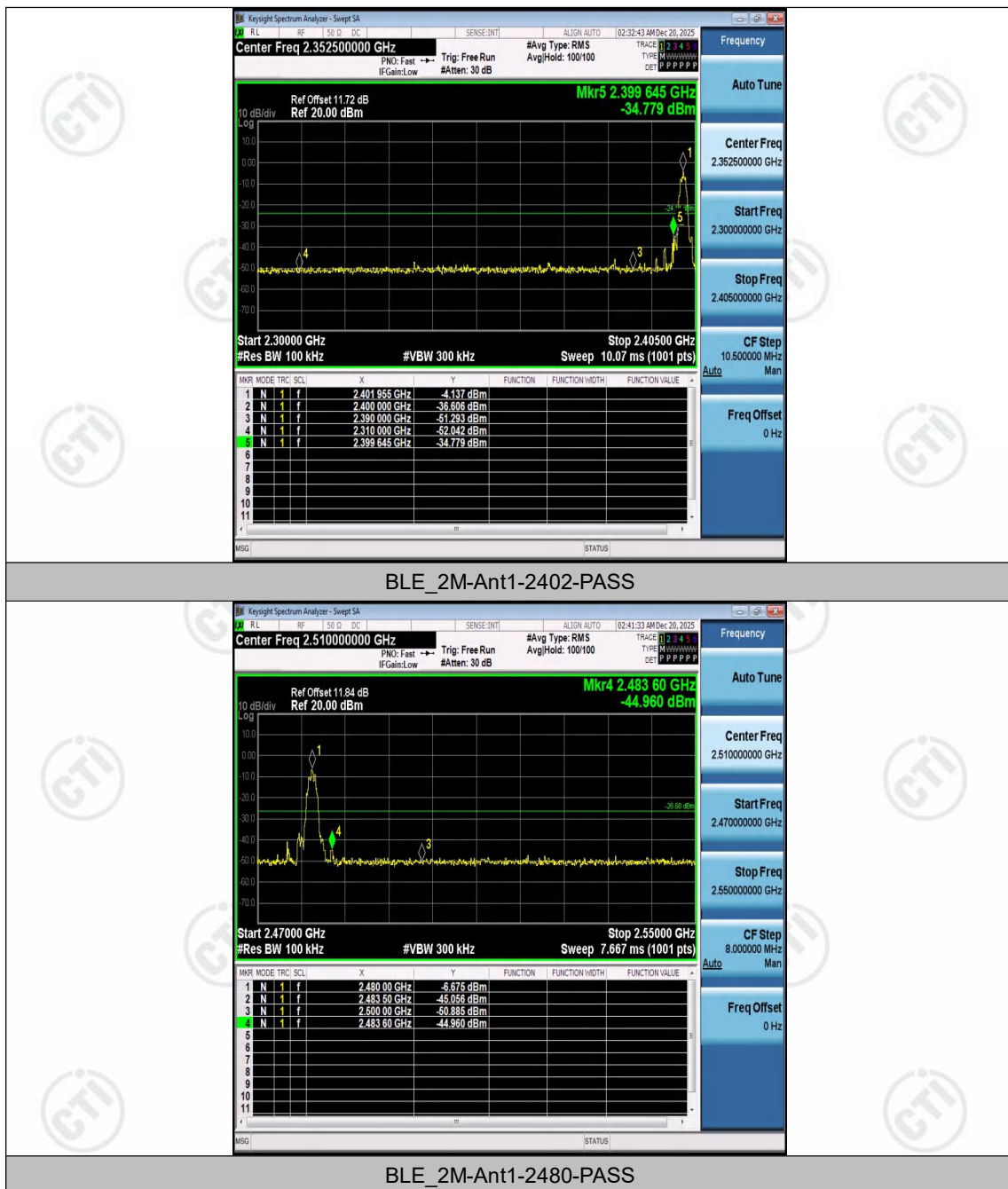


Appendix E: Band edge measurements**Test Result**

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.53	-35.43	≤-23.53	PASS
BLE_1M	Ant1	High	2480	-6.28	-44.25	≤-26.28	PASS
BLE_2M	Ant1	Low	2402	-4.14	-34.78	≤-24.14	PASS
BLE_2M	Ant1	High	2480	-6.68	-44.96	≤-26.68	PASS

Test Graphs

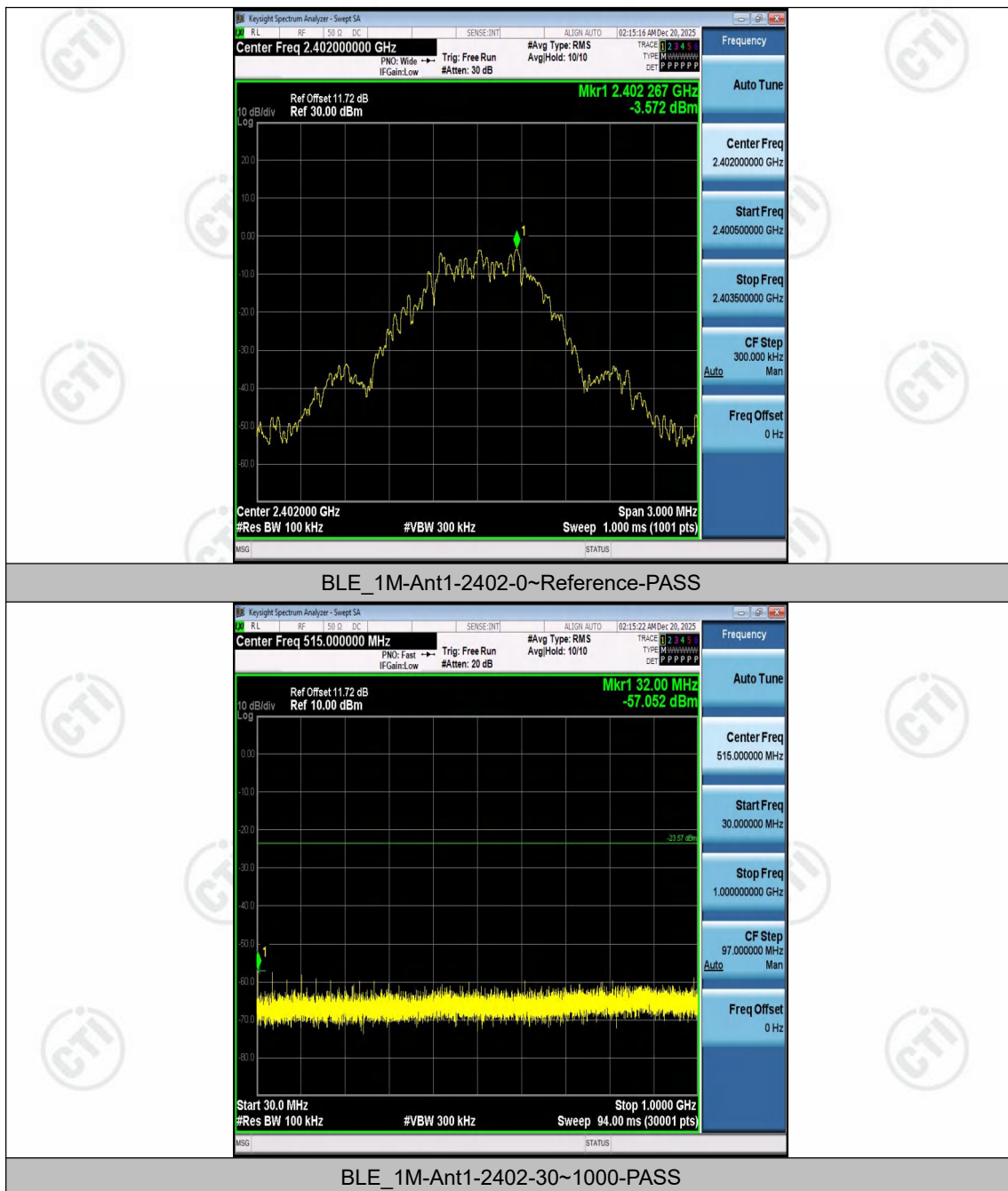


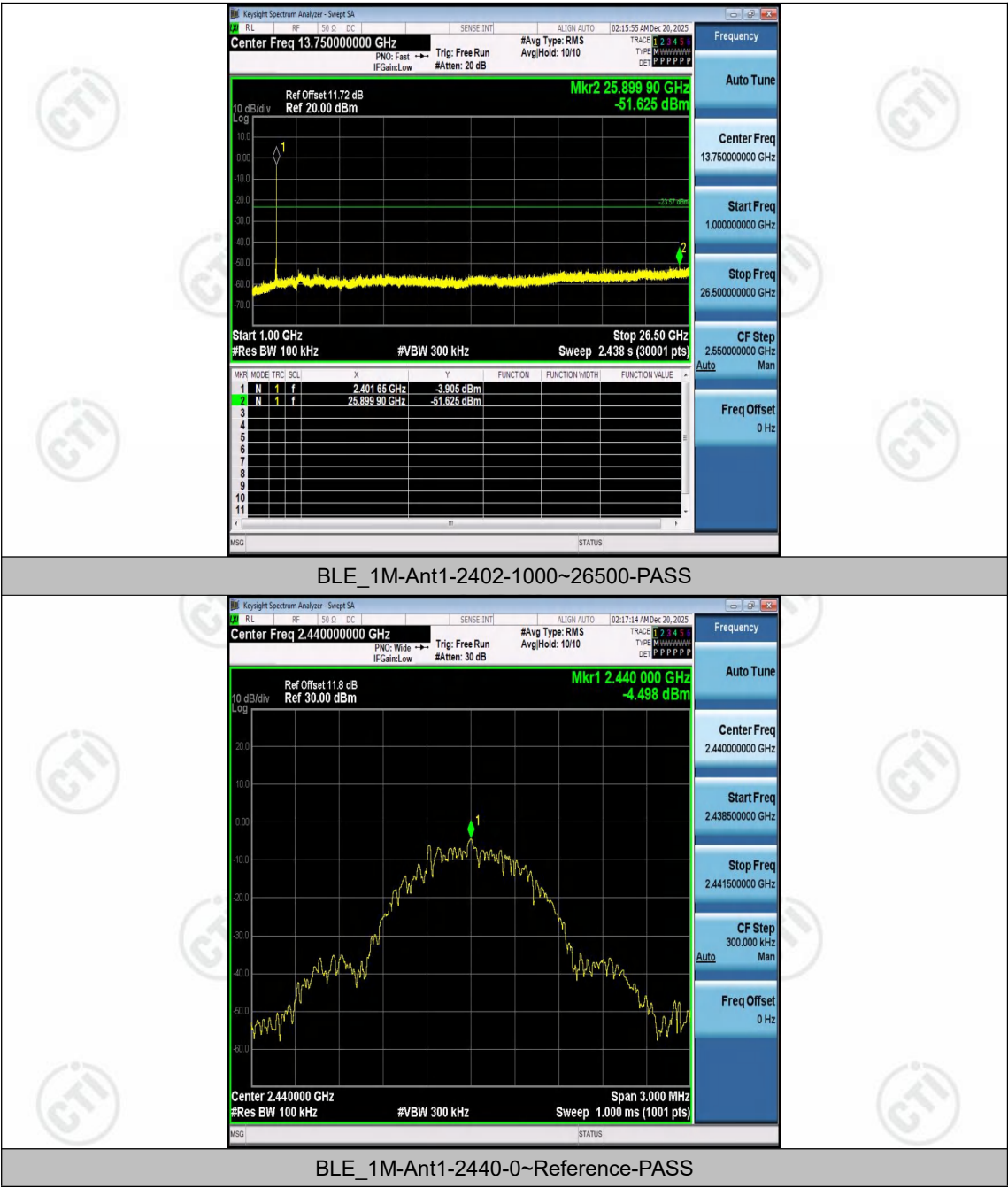


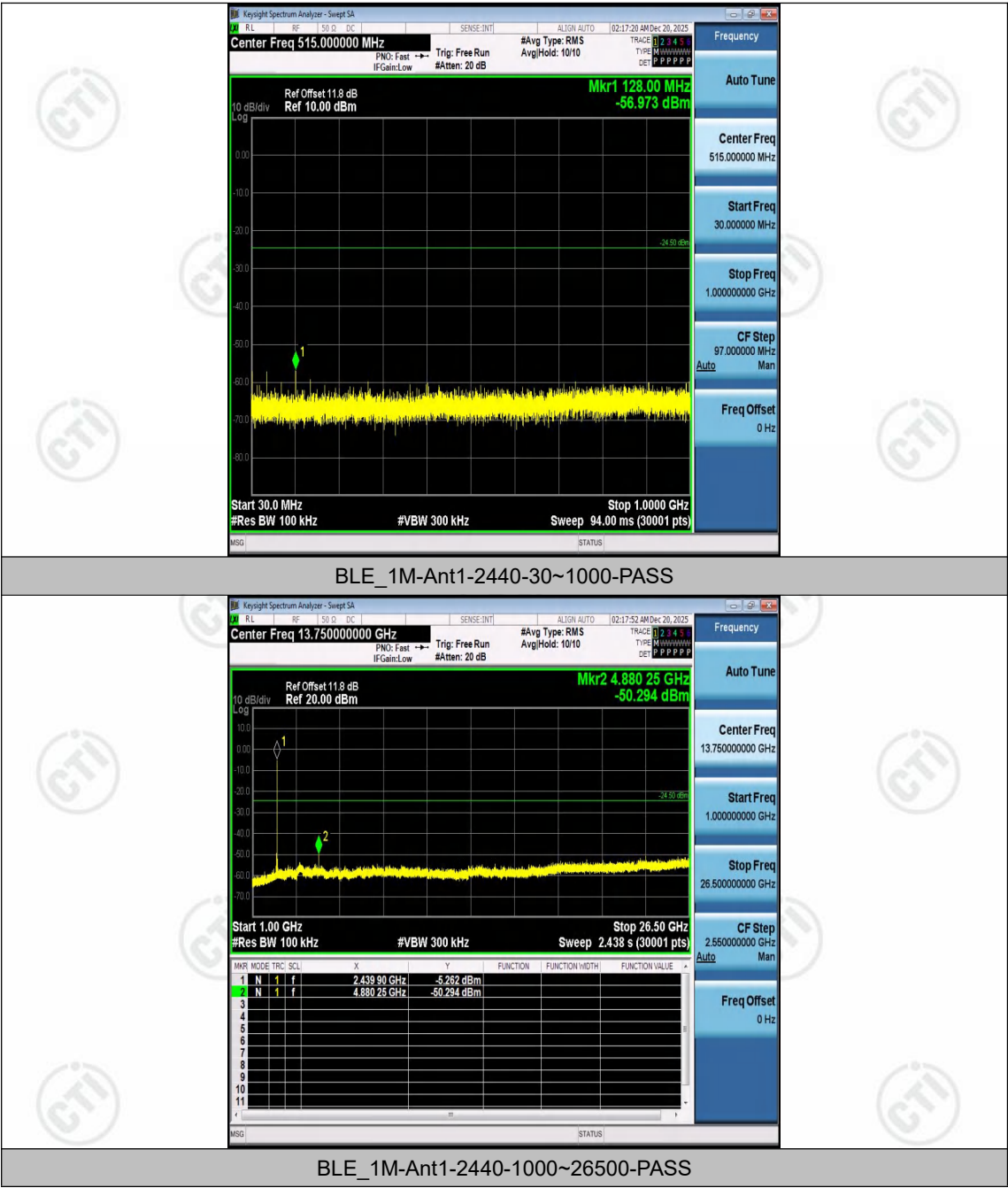
Appendix F: Conducted Spurious Emission**Test Result**

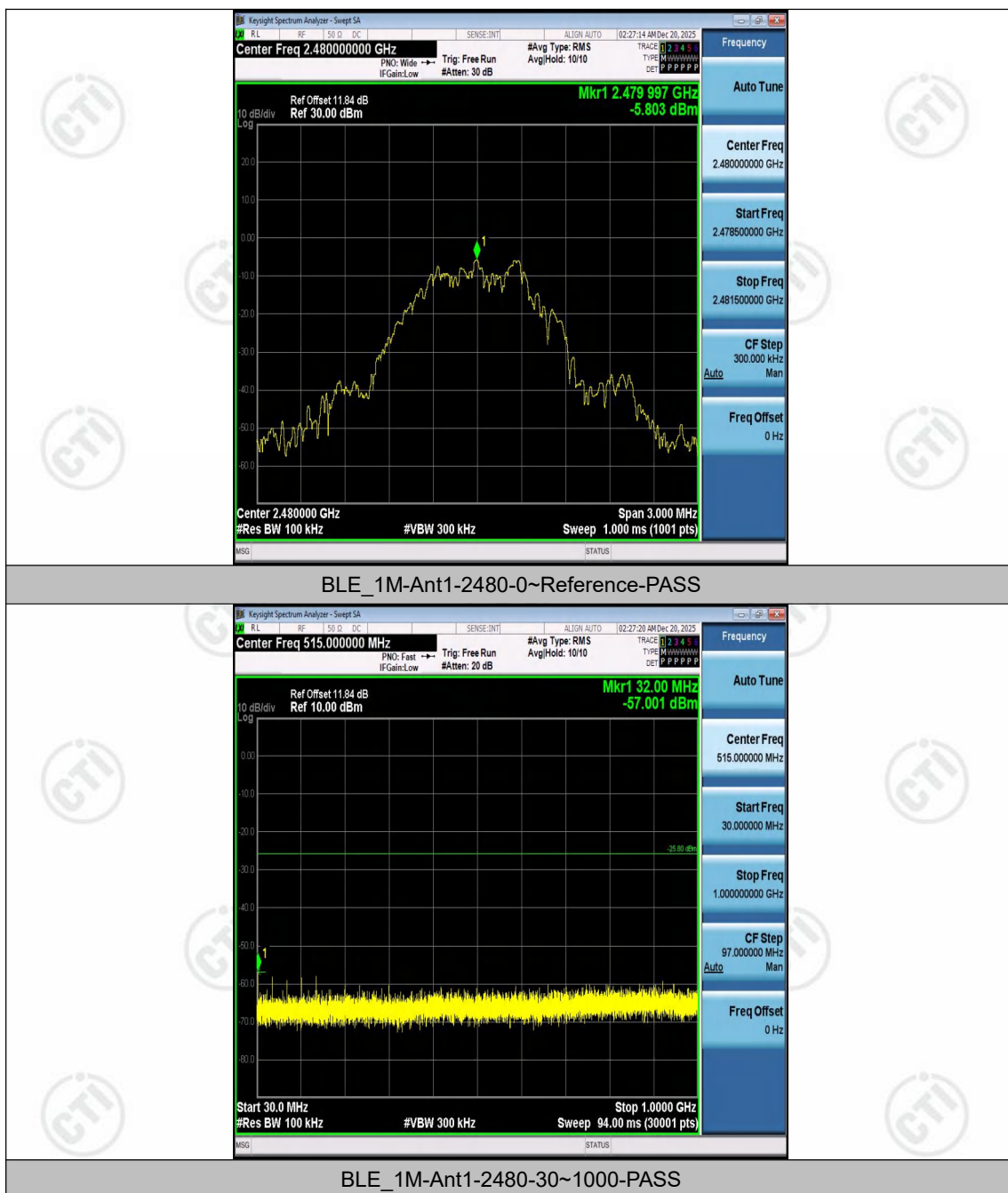
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.57	-3.57	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.57	-57.05	≤ -23.57	PASS
BLE_1M	Ant1	2402	1000~26500	-3.57	-51.63	≤ -23.57	PASS
BLE_1M	Ant1	2440	0~Reference	-4.50	-4.50	---	PASS
BLE_1M	Ant1	2440	30~1000	-4.50	-56.97	≤ -24.5	PASS
BLE_1M	Ant1	2440	1000~26500	-4.50	-50.29	≤ -24.5	PASS
BLE_1M	Ant1	2480	0~Reference	-5.80	-5.80	---	PASS
BLE_1M	Ant1	2480	30~1000	-5.80	-57	≤ -25.8	PASS
BLE_1M	Ant1	2480	1000~26500	-5.80	-48.25	≤ -25.8	PASS
BLE_2M	Ant1	2402	0~Reference	-3.92	-3.92	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.92	-57.37	≤ -23.92	PASS
BLE_2M	Ant1	2402	1000~26500	-3.92	-50.82	≤ -23.92	PASS
BLE_2M	Ant1	2440	0~Reference	-8.05	-8.05	---	PASS
BLE_2M	Ant1	2440	30~1000	-8.05	-57.07	≤ -28.05	PASS
BLE_2M	Ant1	2440	1000~26500	-8.05	-50.88	≤ -28.05	PASS
BLE_2M	Ant1	2480	0~Reference	-8.74	-8.74	---	PASS
BLE_2M	Ant1	2480	30~1000	-8.74	-57.15	≤ -28.74	PASS
BLE_2M	Ant1	2480	1000~26500	-8.74	-50.31	≤ -28.74	PASS

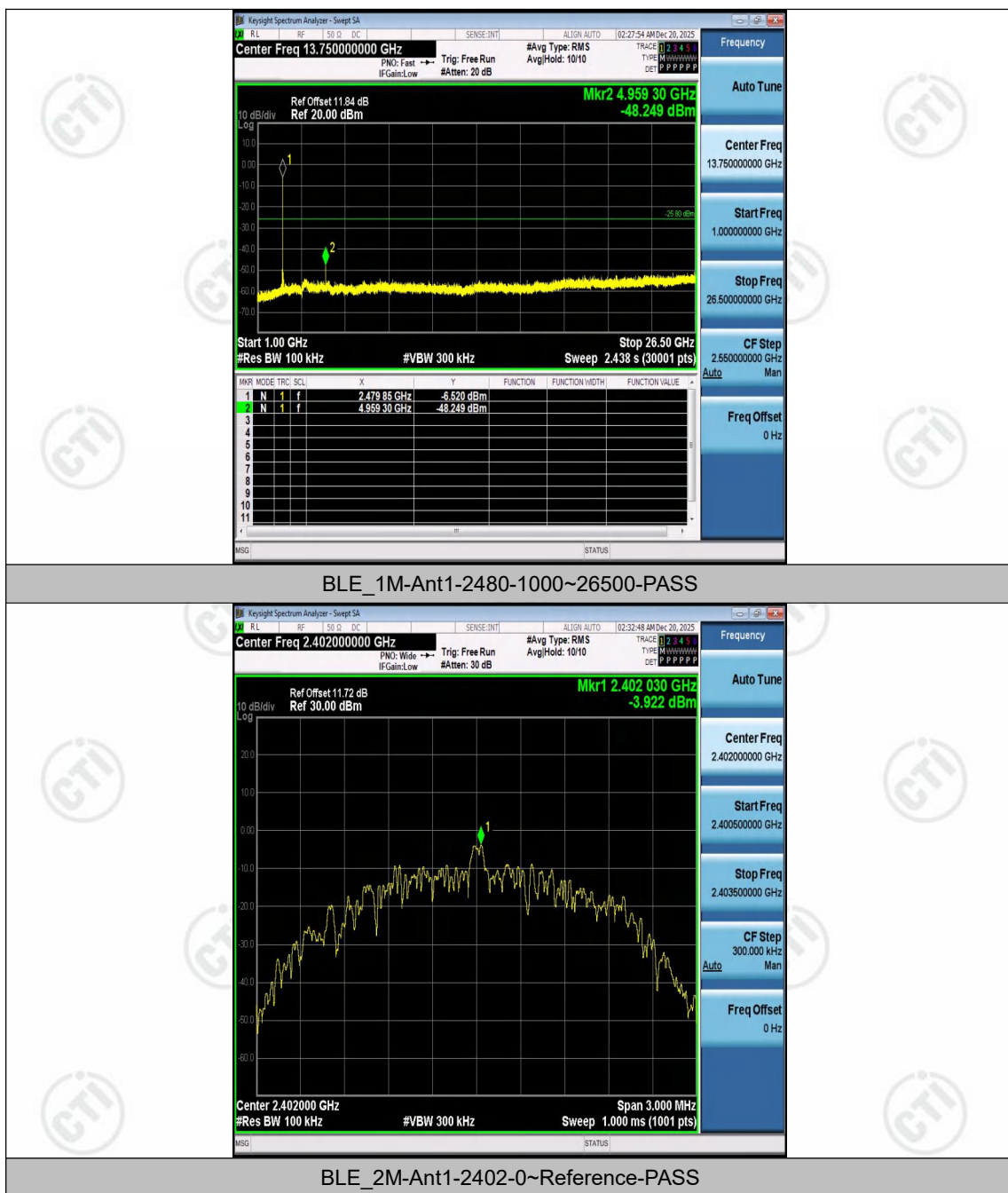
Test Graphs

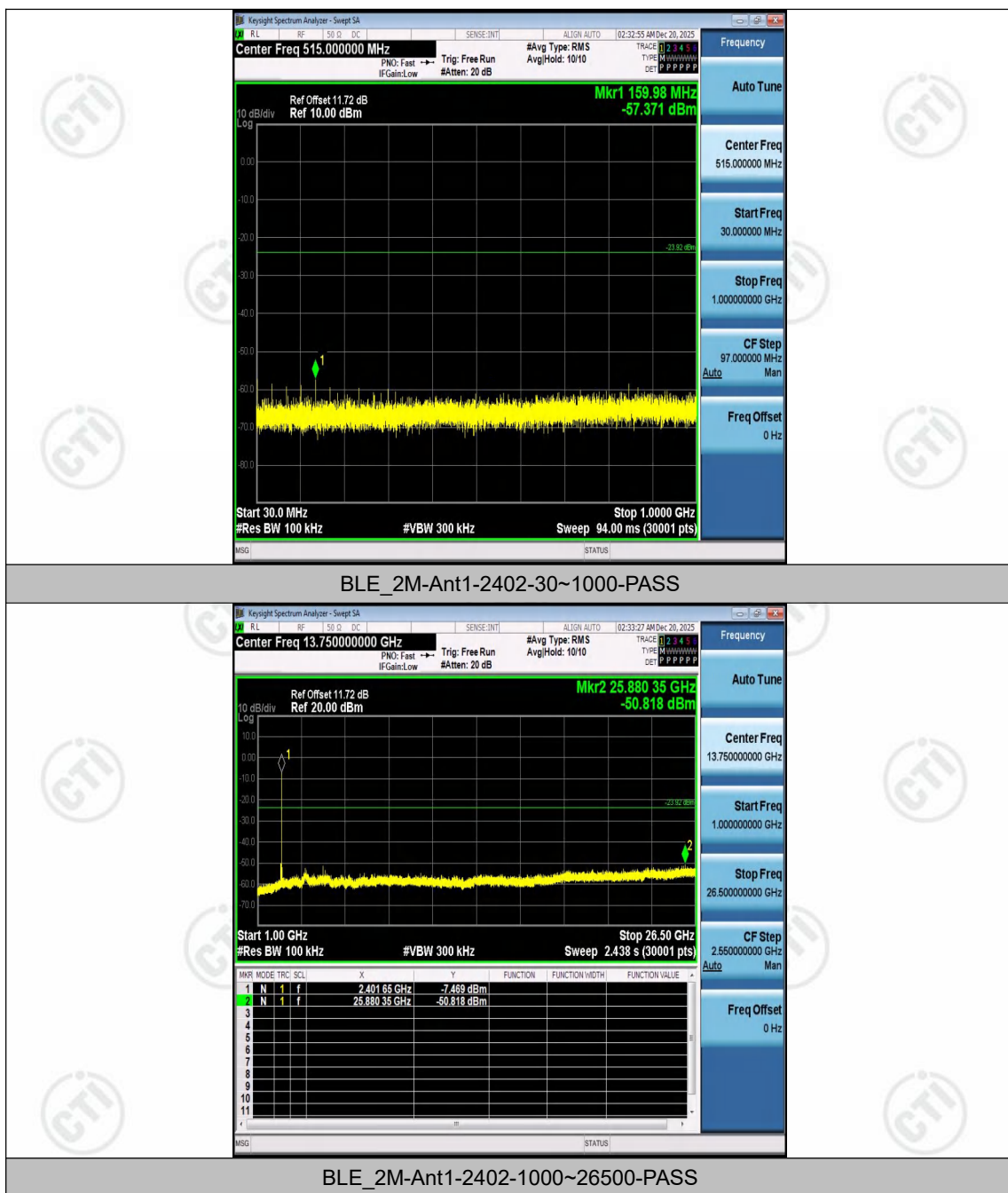


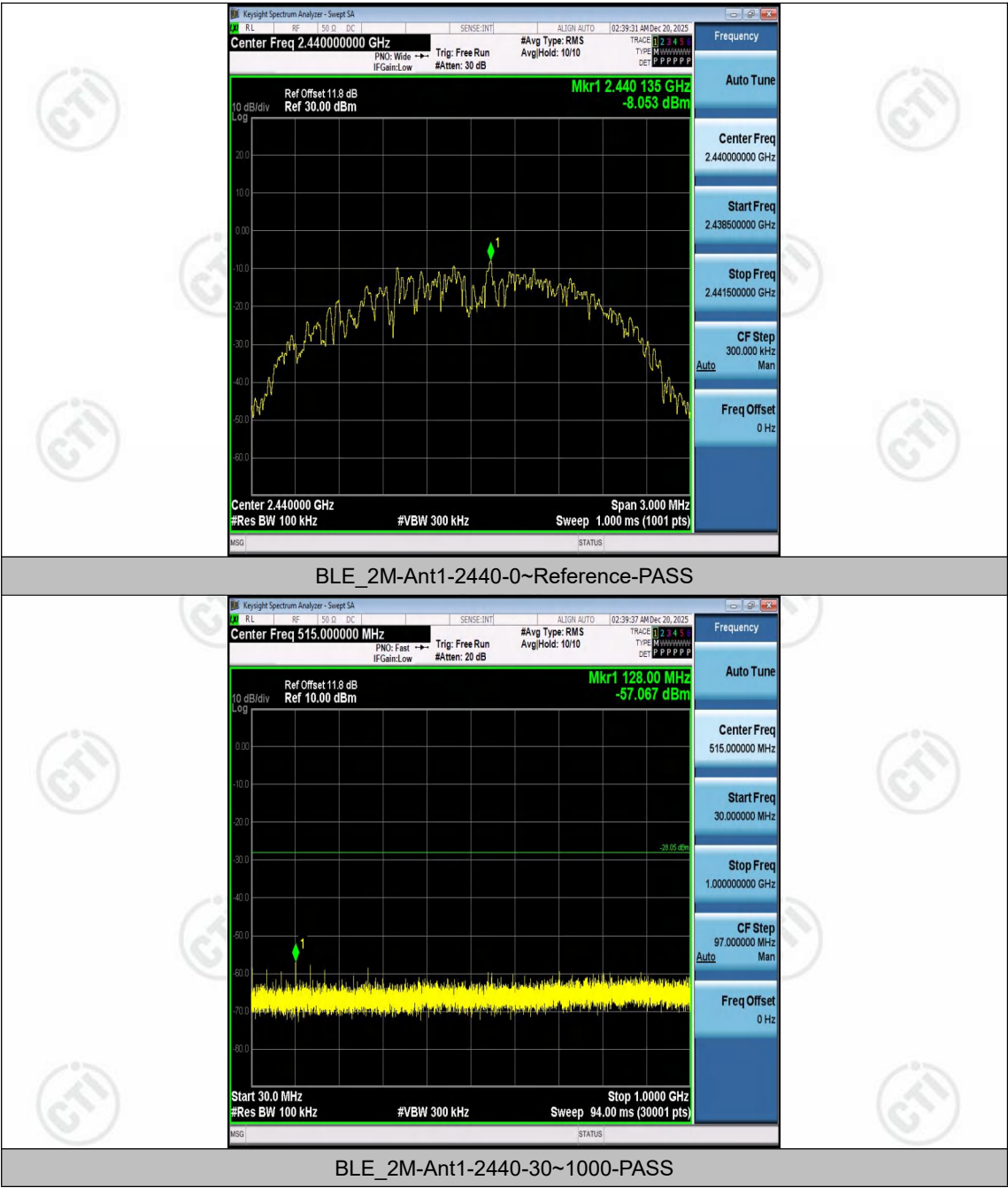


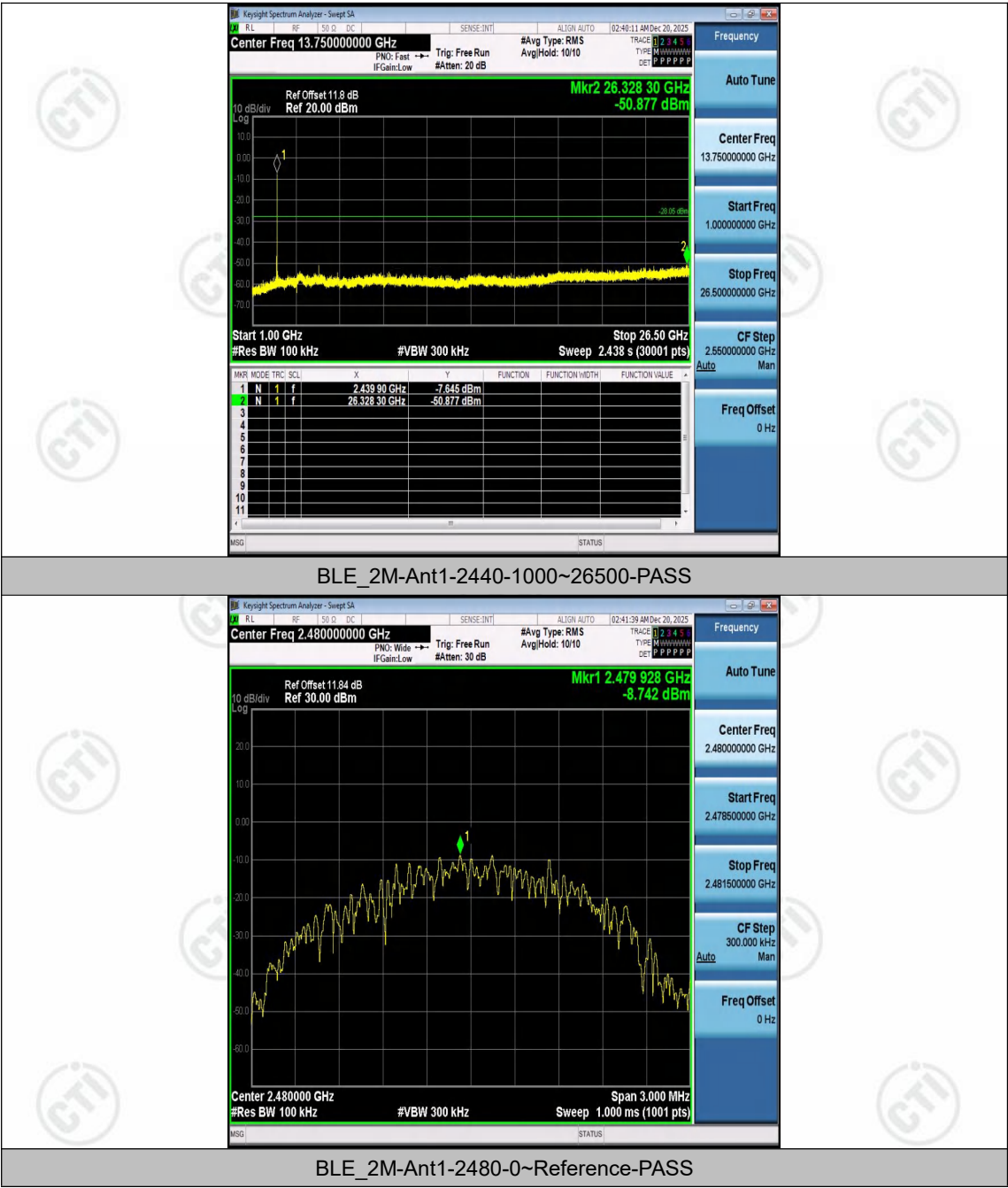


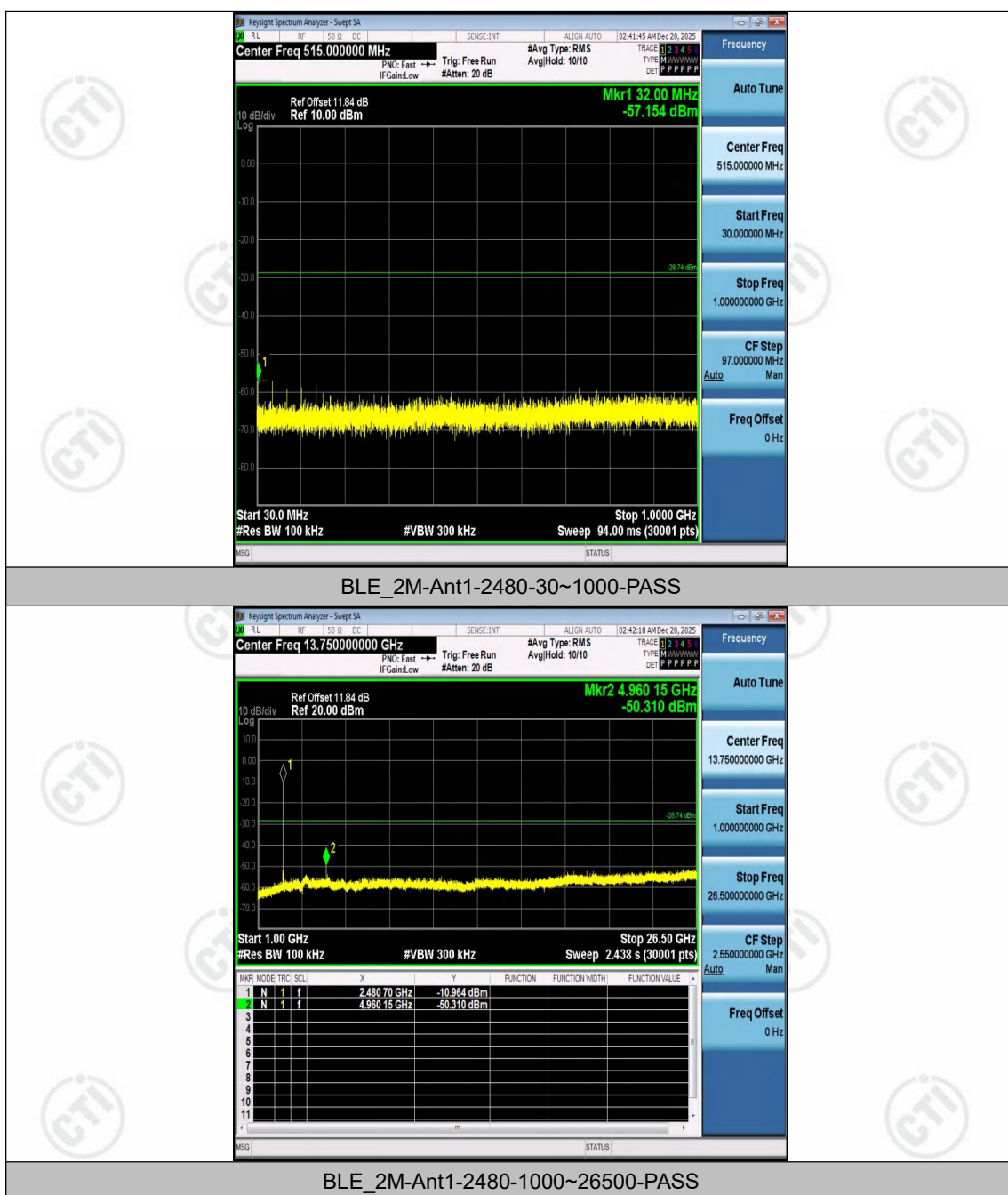








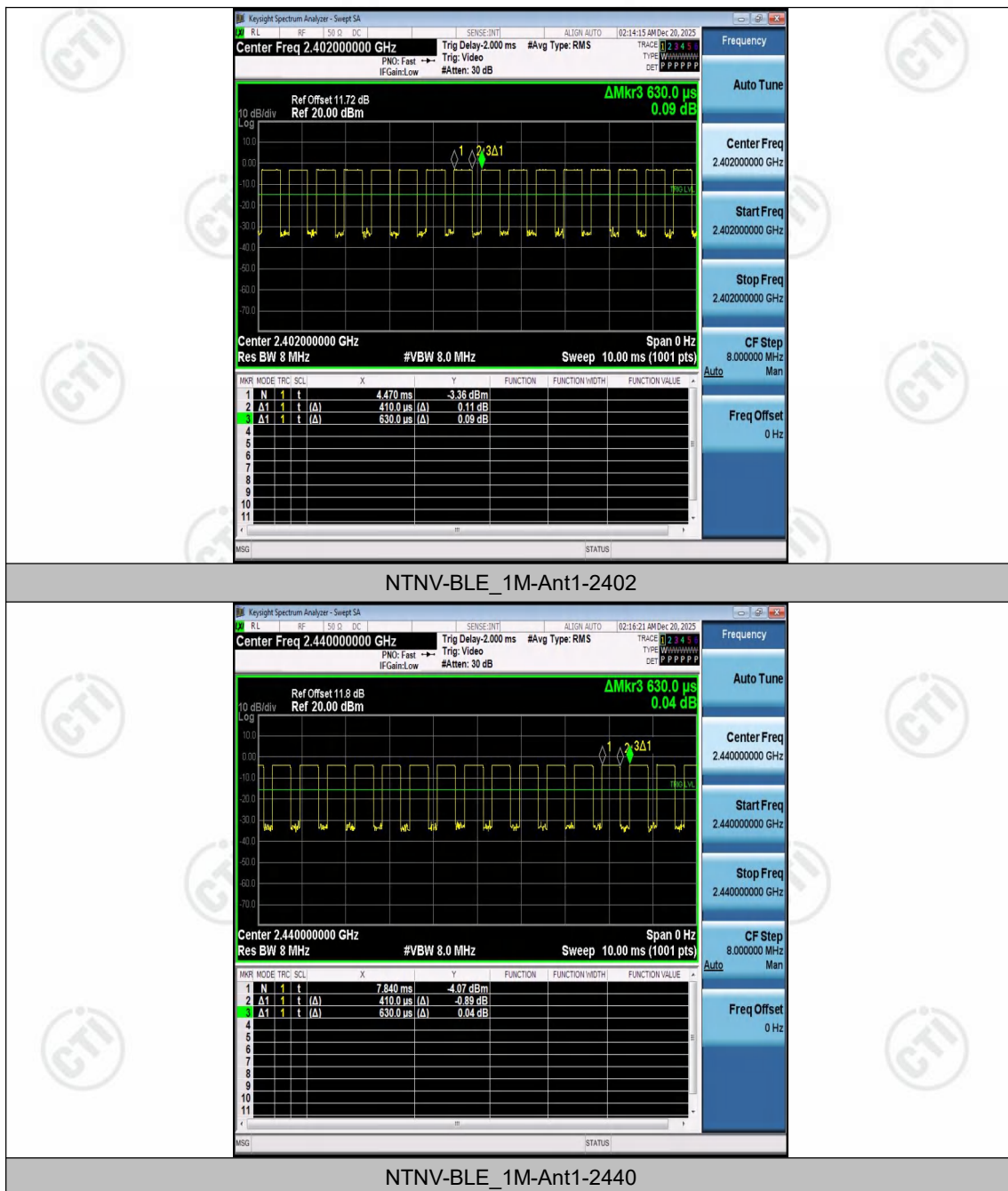


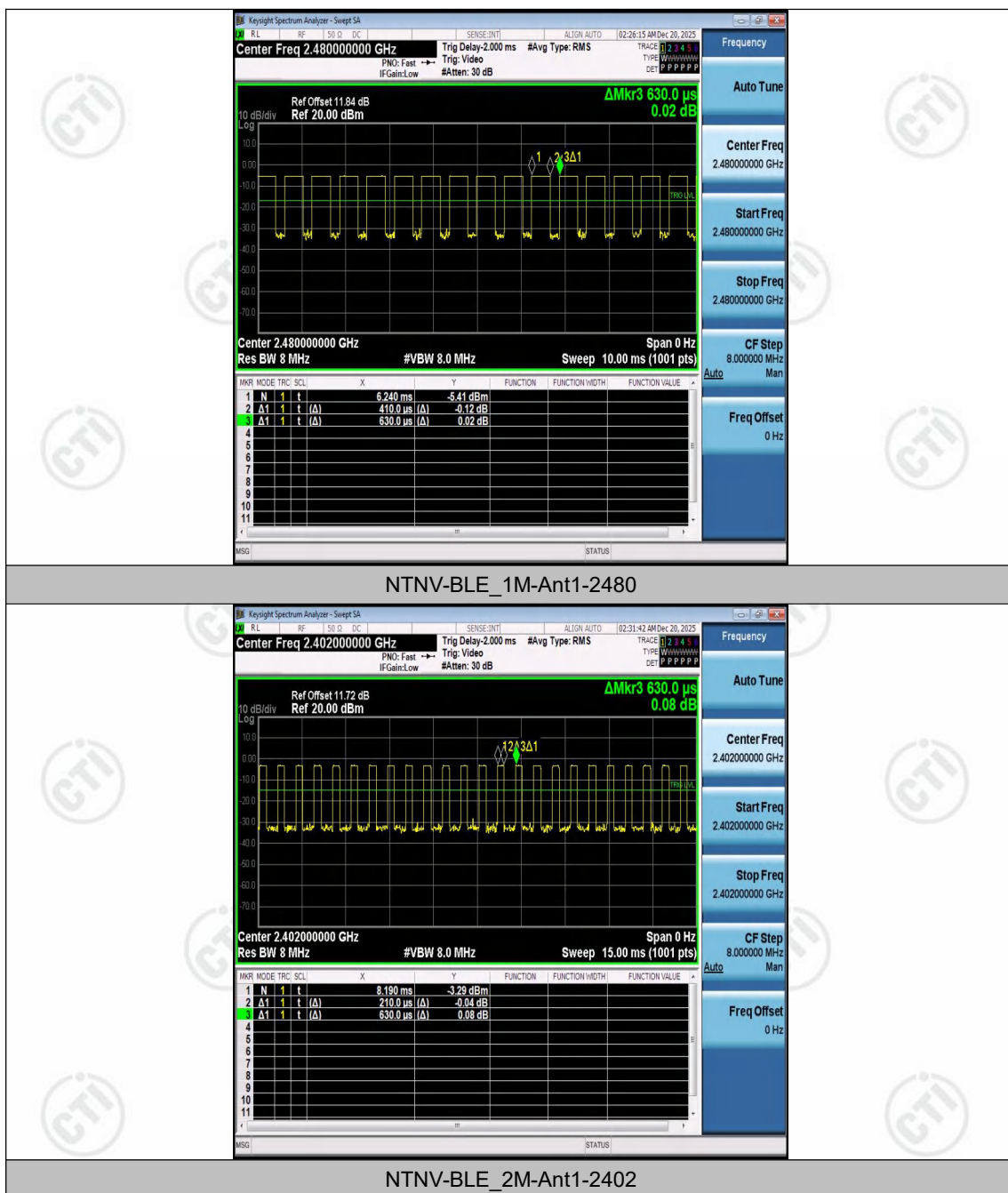


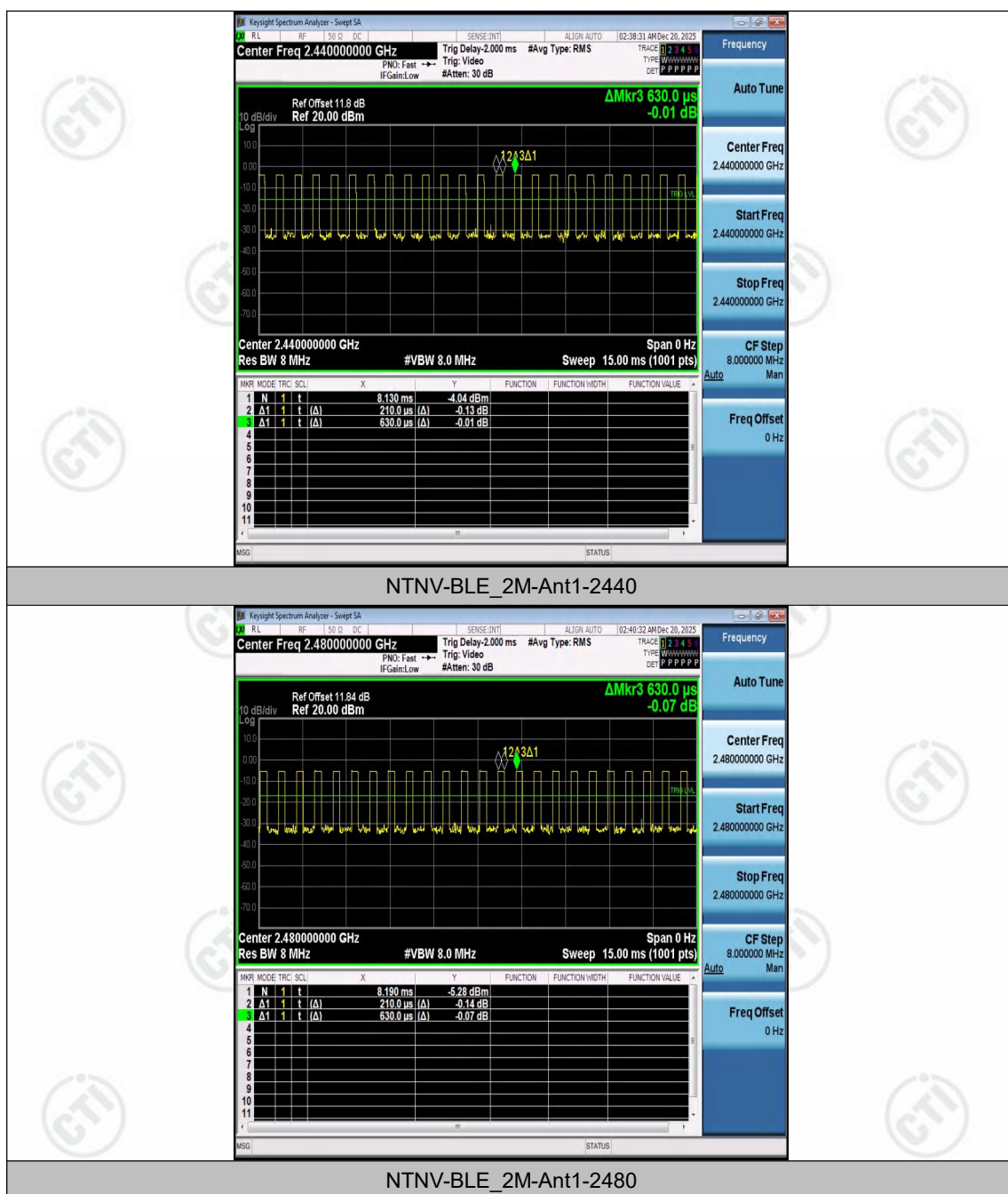
Appendix G: Duty Cycle**Test Result**

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2440	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2480	0.41	0.63	65.08	1.87
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 ***