

Appendix: Bluetooth LE

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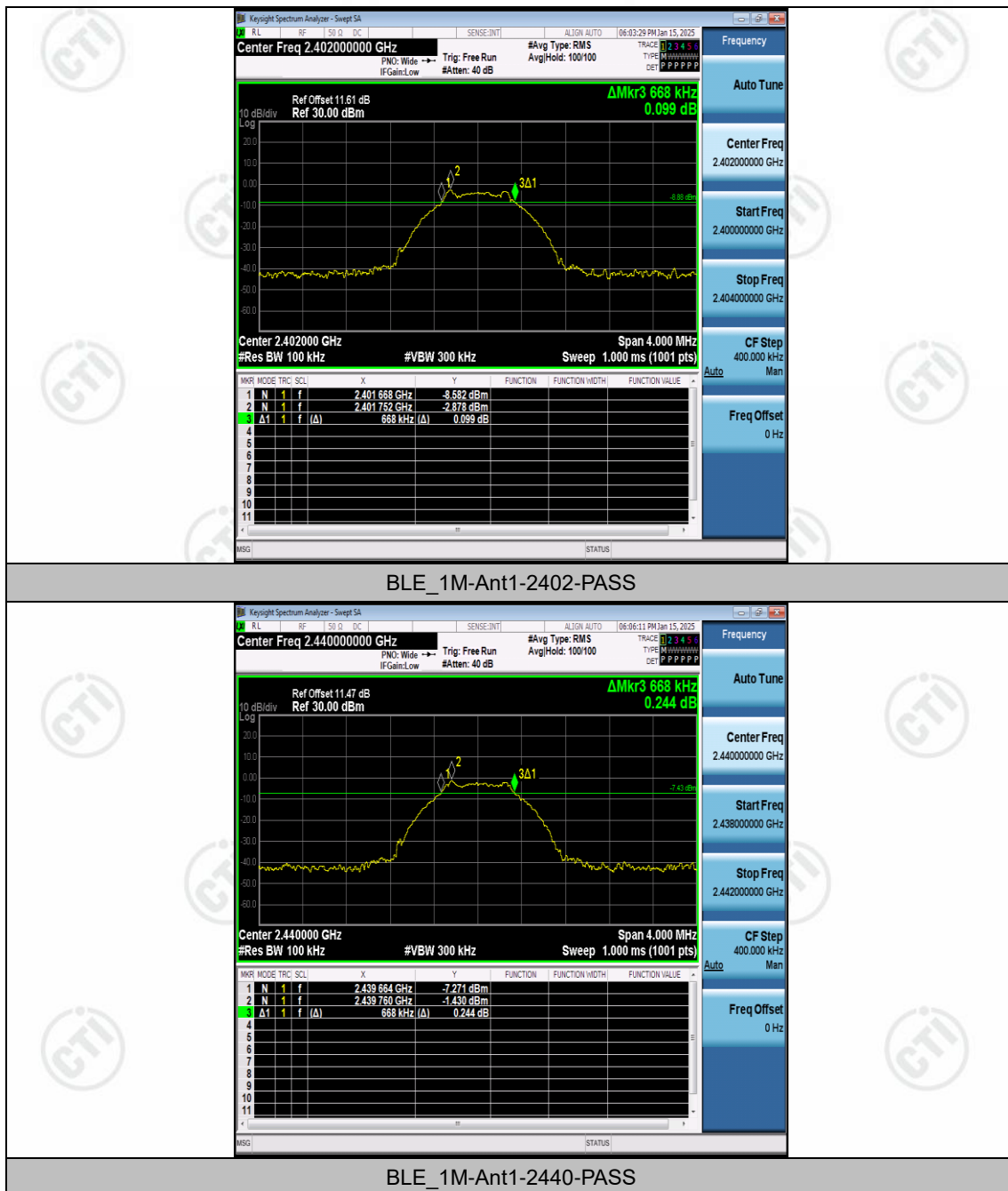
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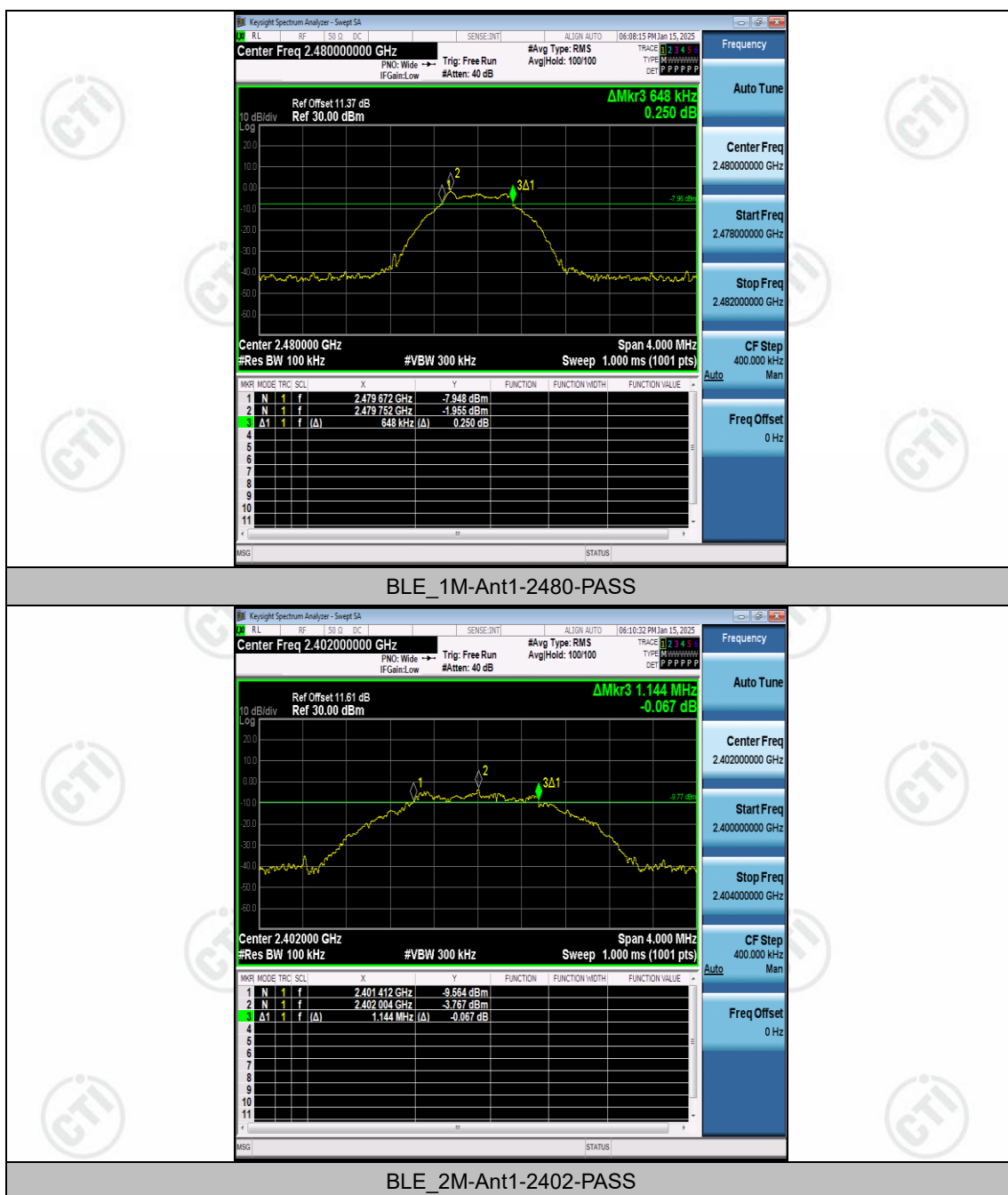
Appendix A: DTS Bandwidth

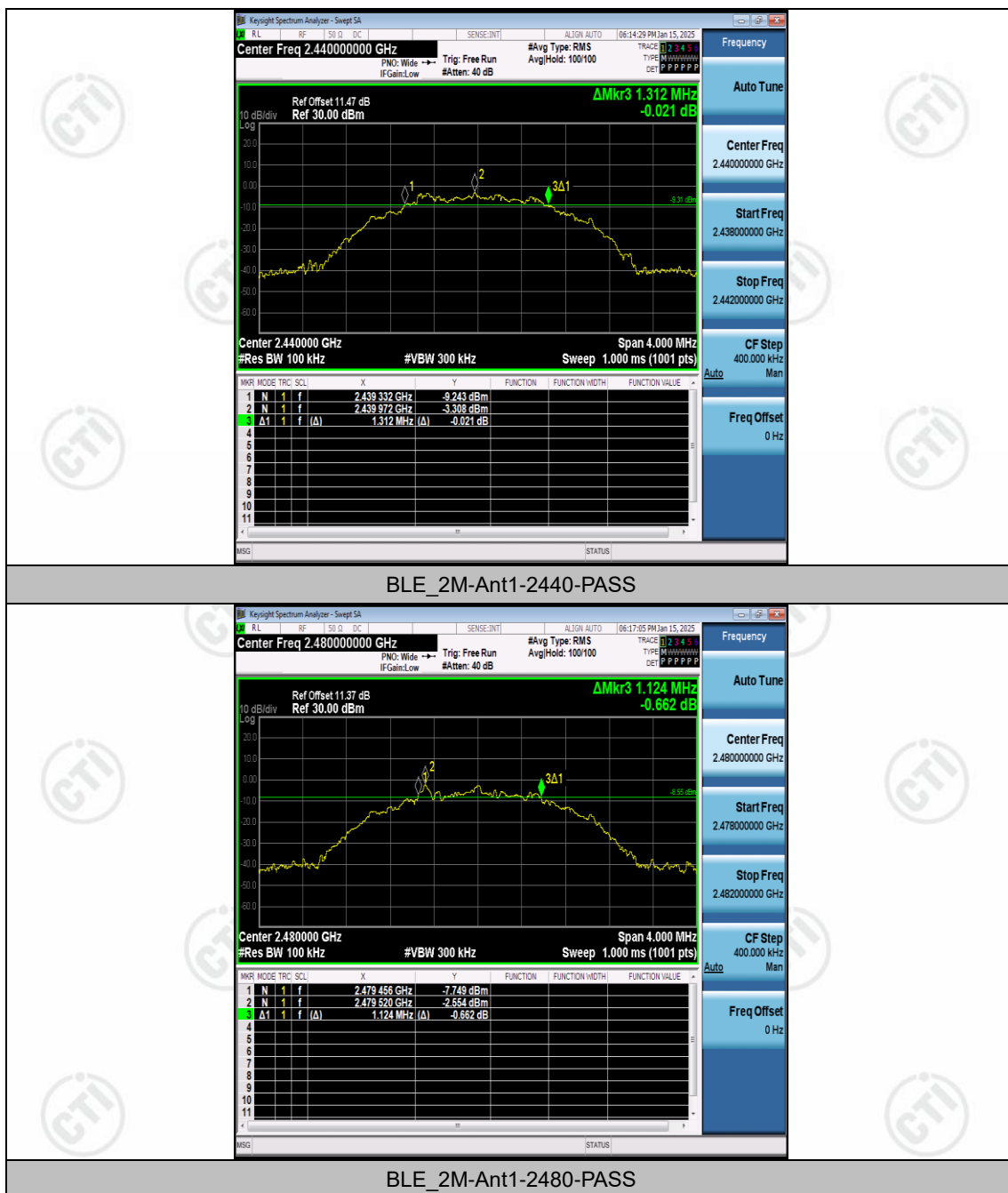
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.664	2440.332	0.5	PASS
BLE_1M	Ant1	2480	0.648	2479.672	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.412	2402.556	0.5	PASS
BLE_2M	Ant1	2440	1.312	2439.332	2440.644	0.5	PASS
BLE_2M	Ant1	2480	1.124	2479.456	2480.580	0.5	PASS

Test Graphs





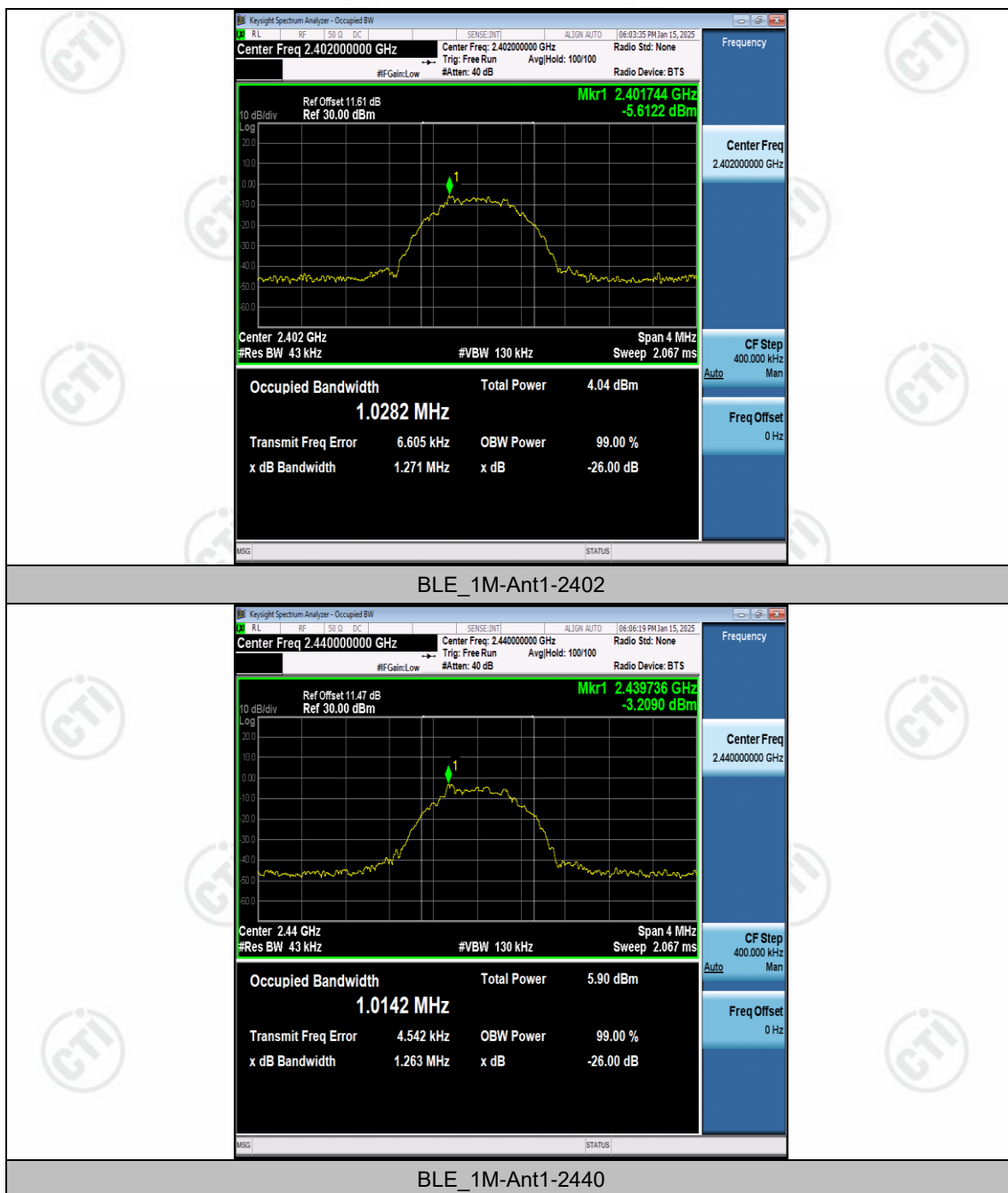


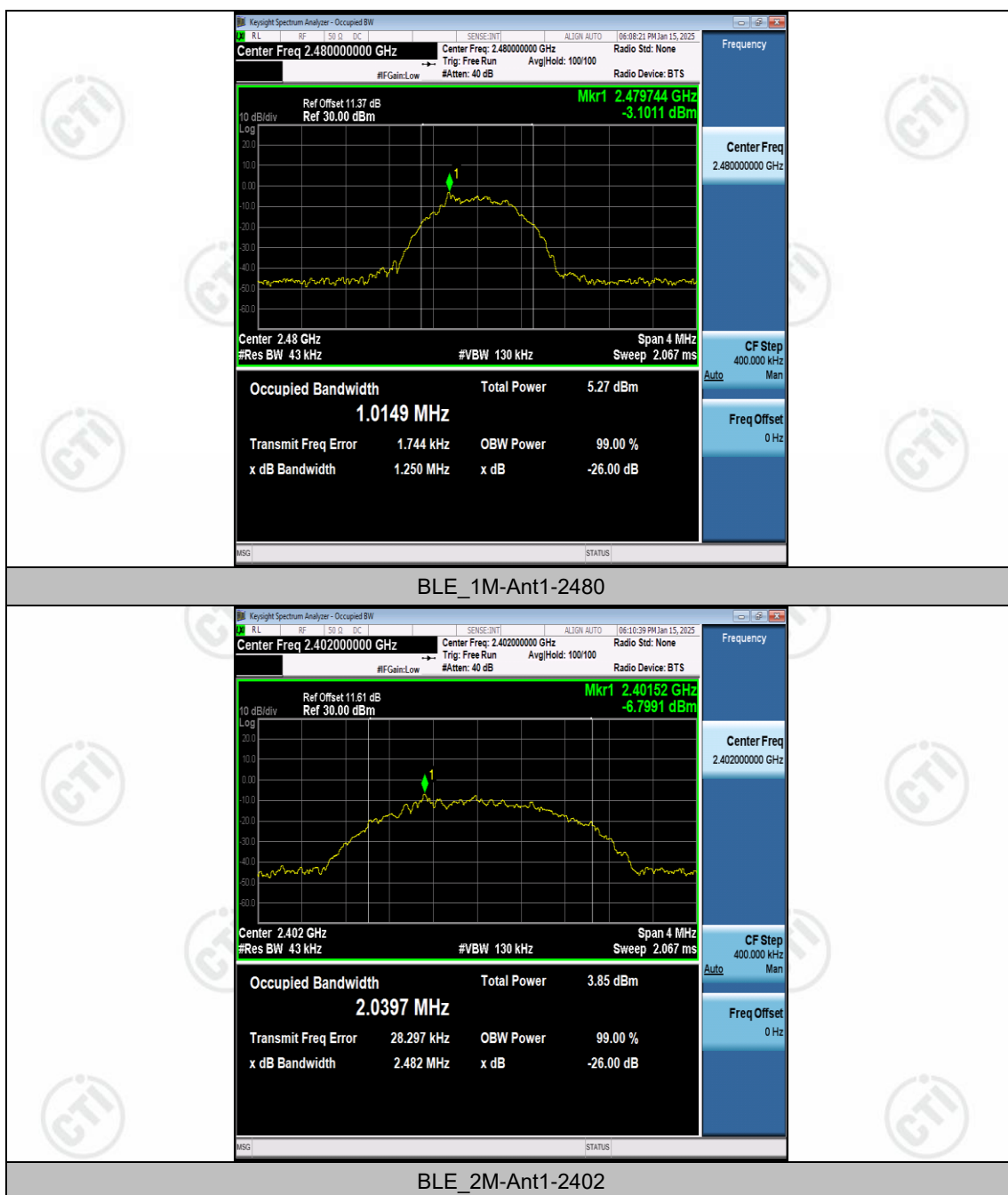
Appendix B: Occupied Channel Bandwidth

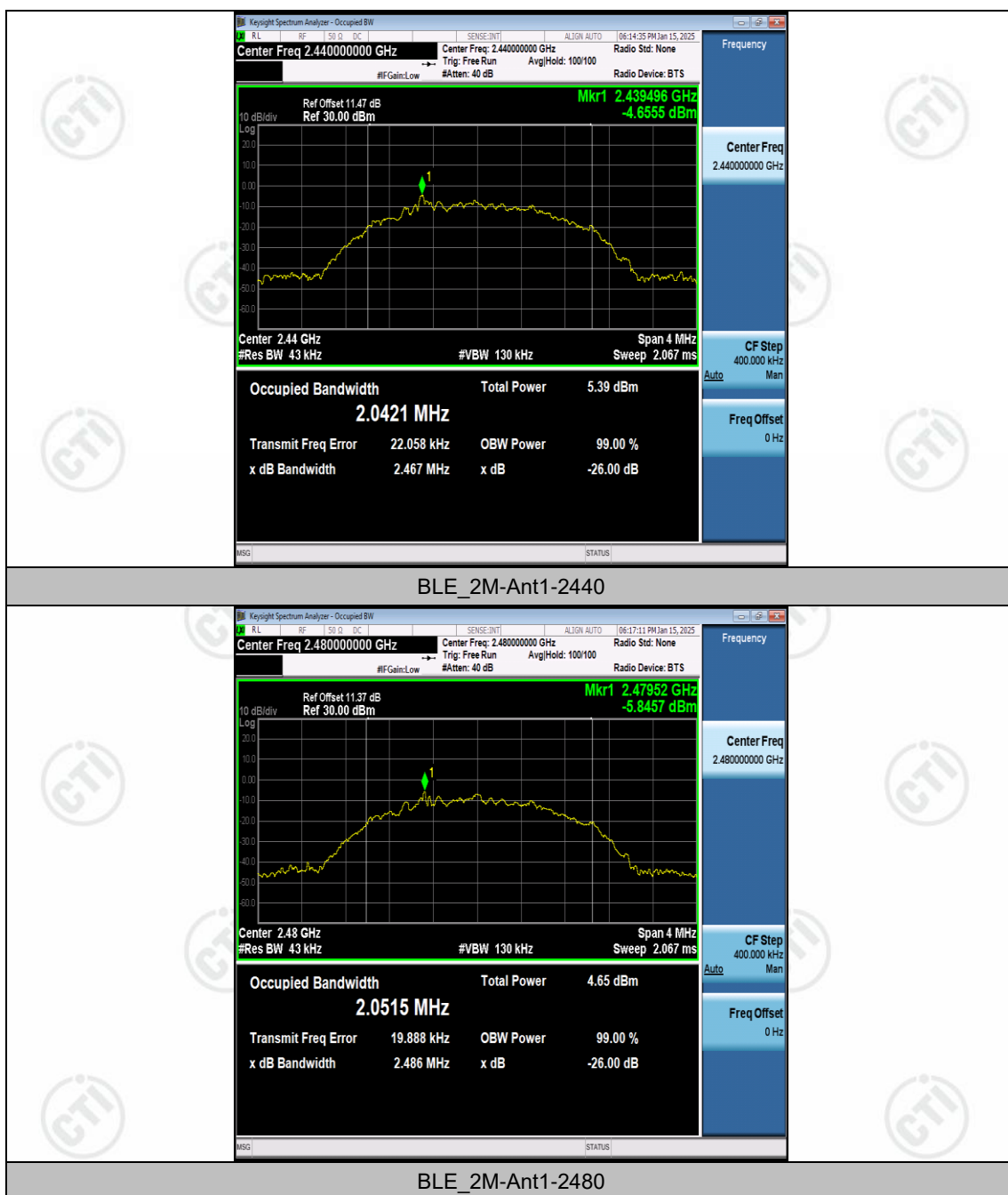
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0282	2401.4925	2402.5207	---	---
BLE_1M	Ant1	2440	1.0142	2439.4974	2440.5116	---	---
BLE_1M	Ant1	2480	1.0149	2479.4943	2480.5092	---	---
BLE_2M	Ant1	2402	2.0397	2401.0085	2403.0482	---	---
BLE_2M	Ant1	2440	2.0421	2439.0010	2441.0431	---	---
BLE_2M	Ant1	2480	2.0515	2478.9941	2481.0456	---	---

Test Graphs





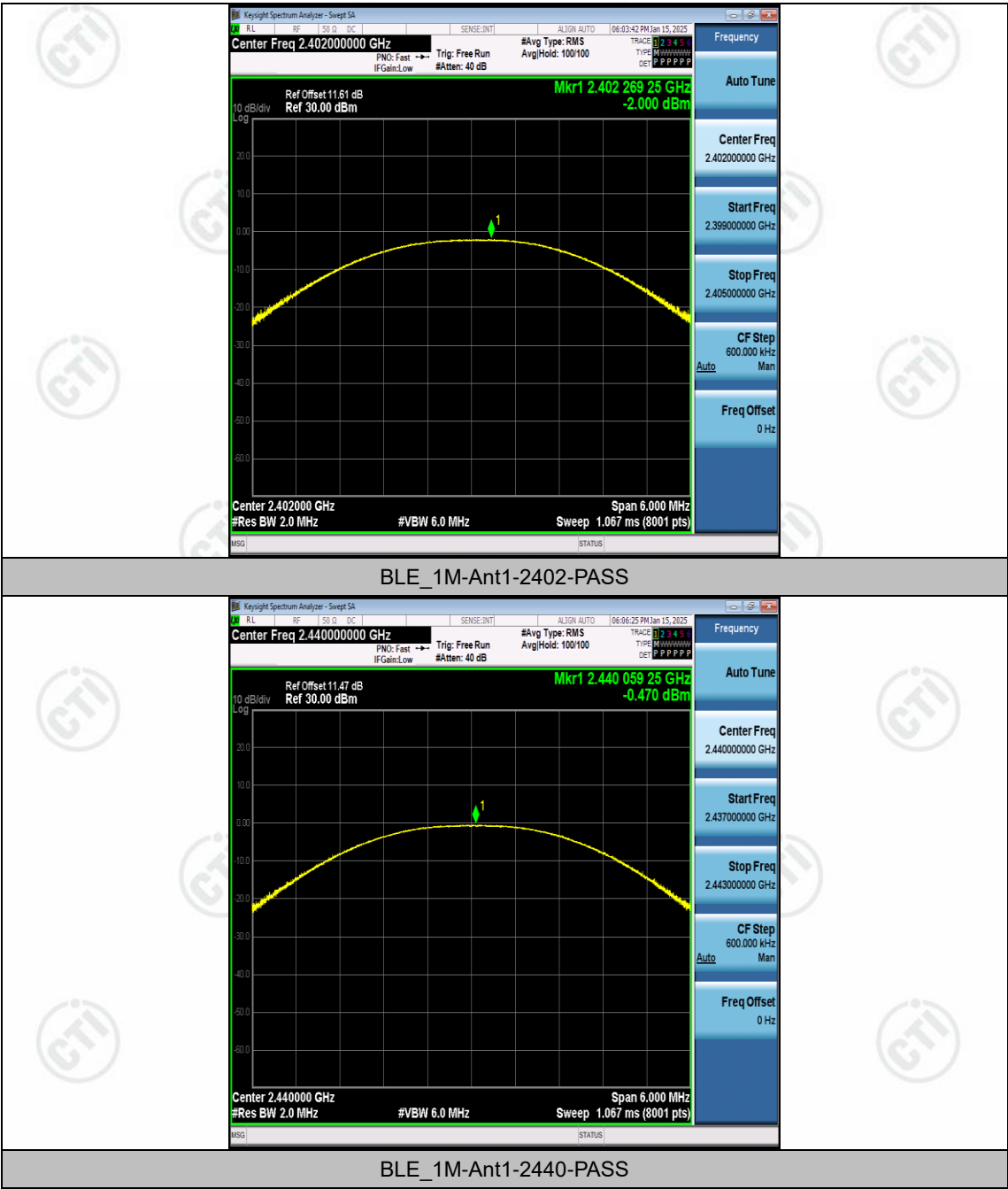


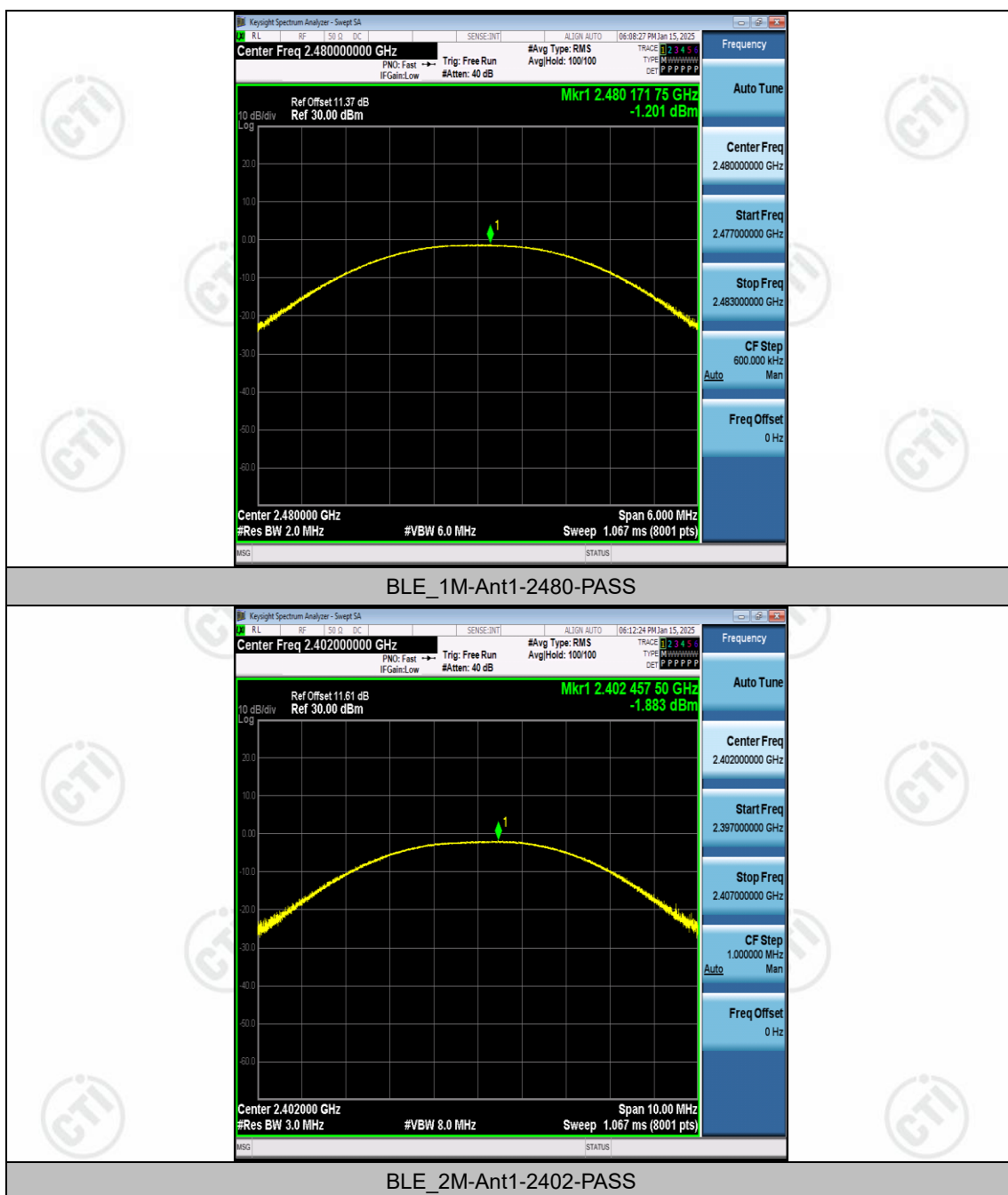
Appendix C: Maximum conducted output power

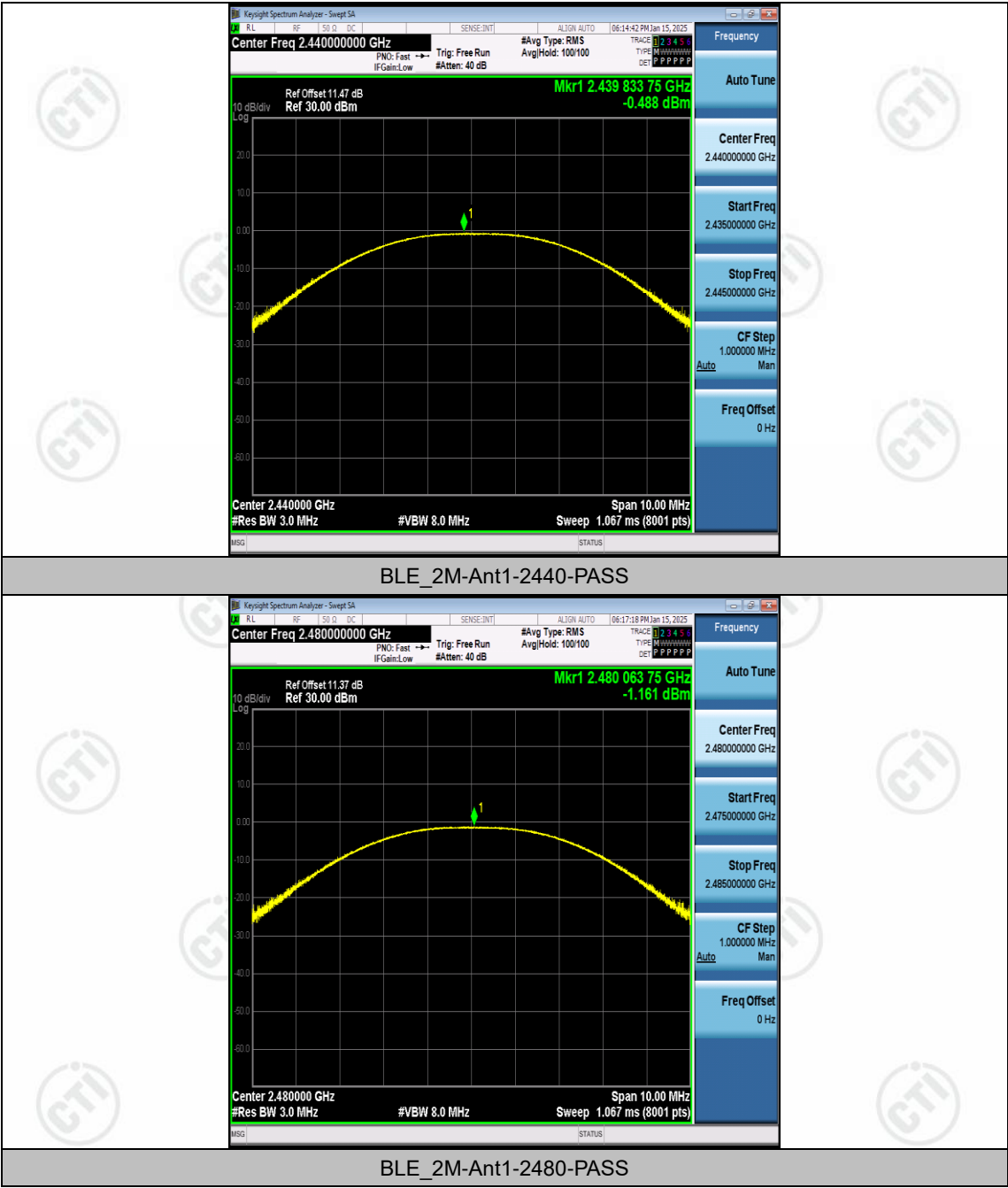
Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.00	≤30	-0.98	≤36	PASS
BLE_1M	Ant1	2440	-0.47	≤30	0.55	≤36	PASS
BLE_1M	Ant1	2480	-1.20	≤30	-0.18	≤36	PASS
BLE_2M	Ant1	2402	-1.88	≤30	-0.86	≤36	PASS
BLE_2M	Ant1	2440	-0.49	≤30	0.53	≤36	PASS
BLE_2M	Ant1	2480	-1.16	≤30	-0.14	≤36	PASS

Test Graphs





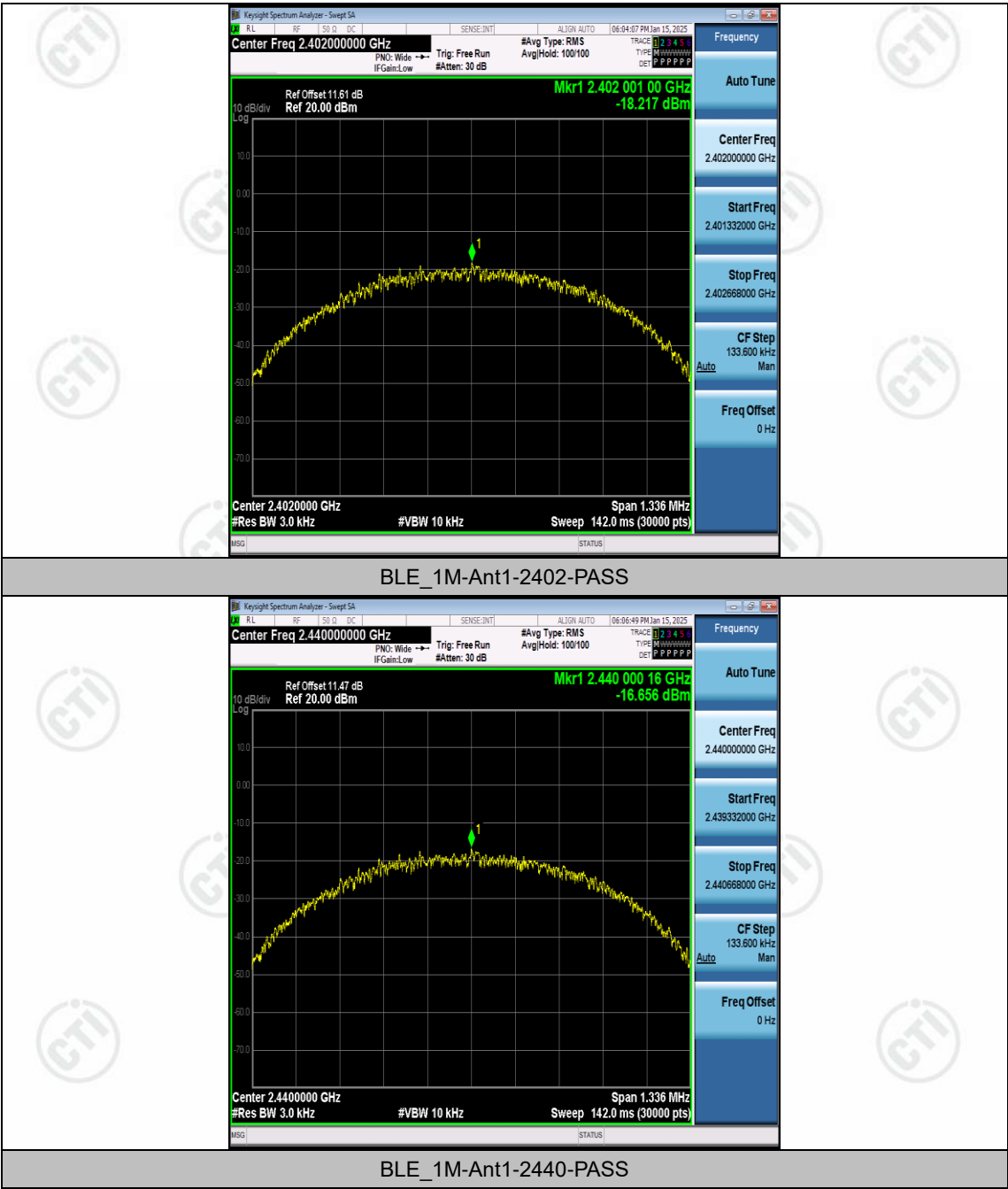


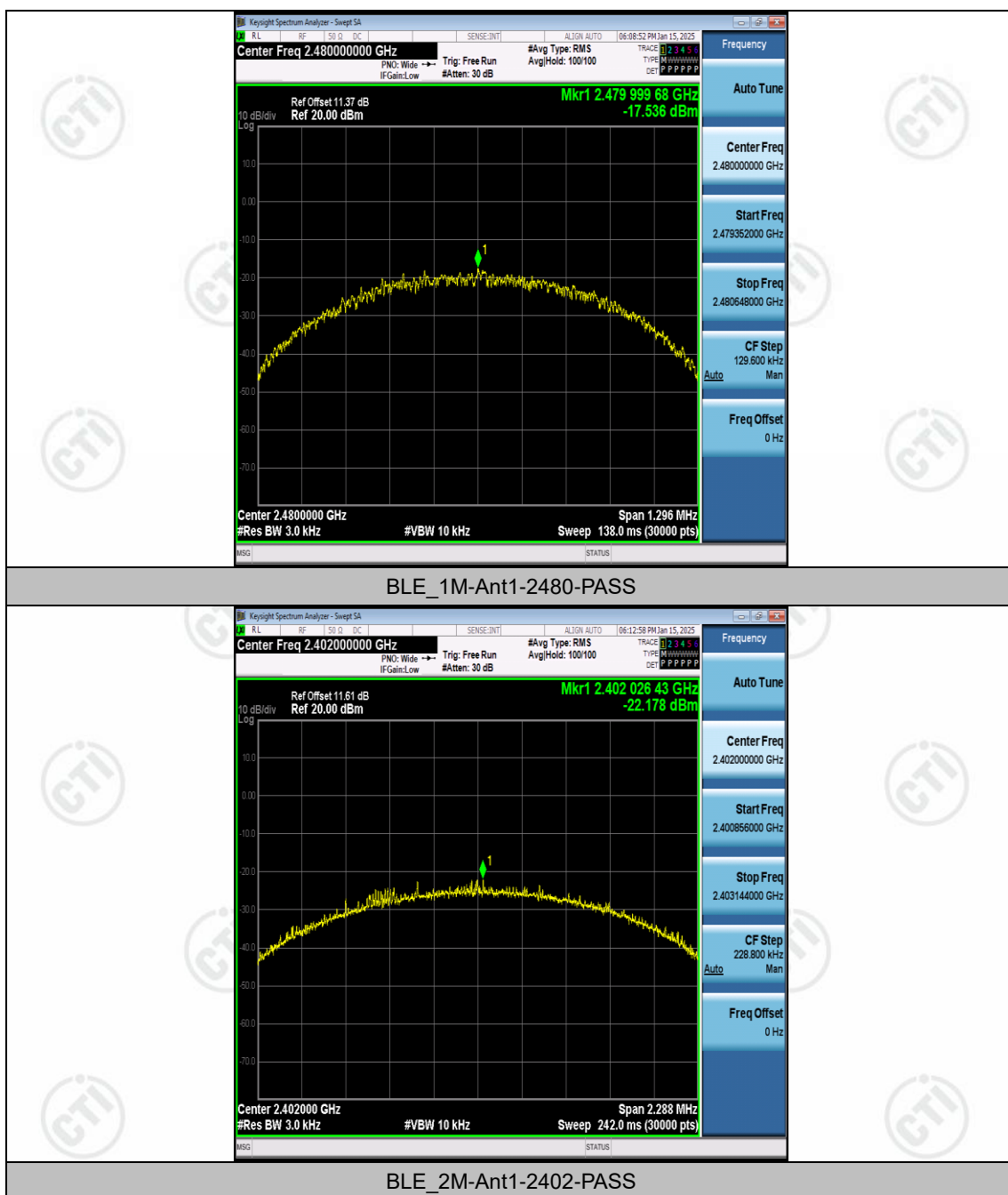
Appendix D: Maximum power spectral density

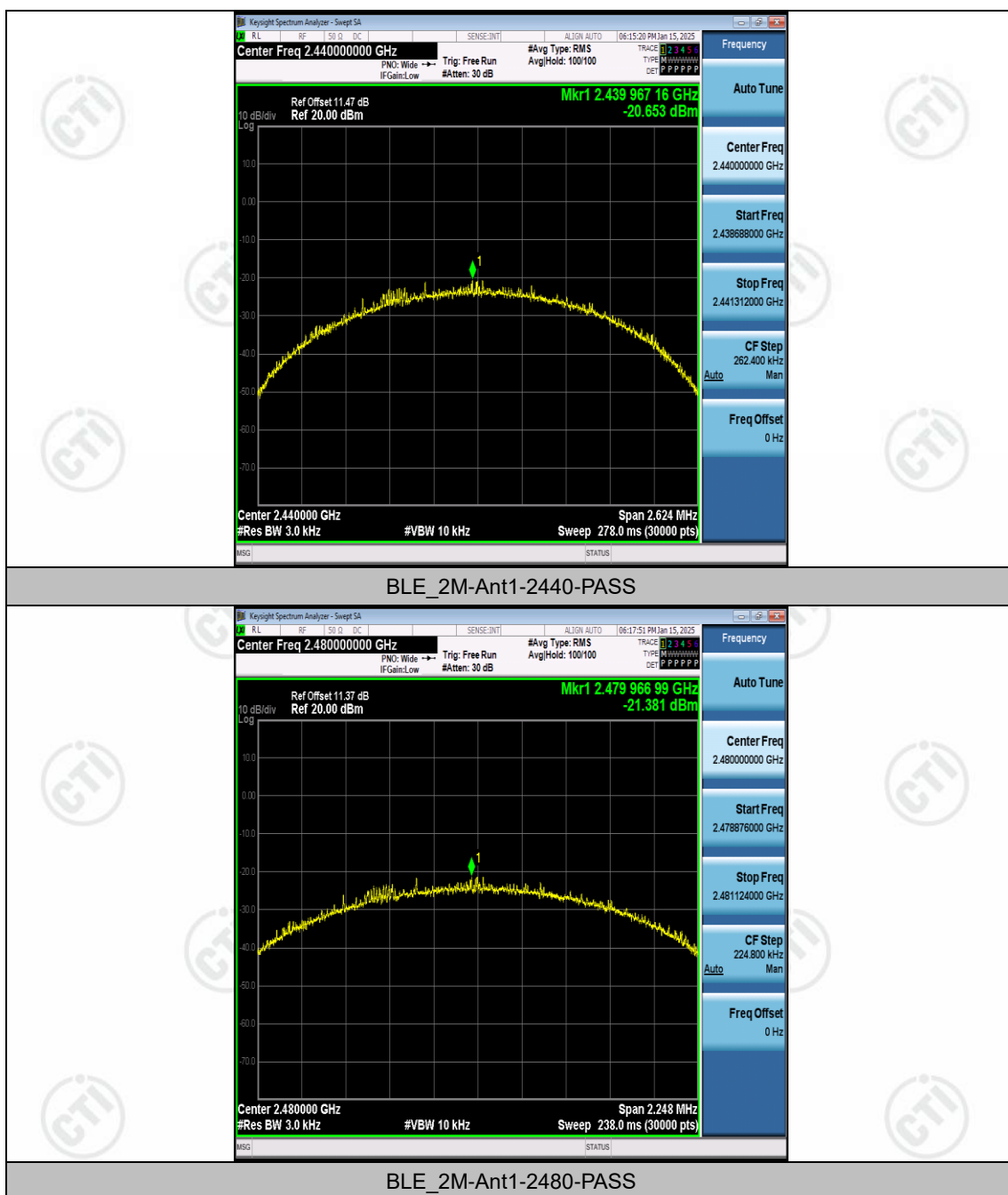
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.22	≤8.00	PASS
BLE_1M	Ant1	2440	-16.66	≤8.00	PASS
BLE_1M	Ant1	2480	-17.54	≤8.00	PASS
BLE_2M	Ant1	2402	-22.18	≤8.00	PASS
BLE_2M	Ant1	2440	-20.65	≤8.00	PASS
BLE_2M	Ant1	2480	-21.38	≤8.00	PASS

Test Graphs



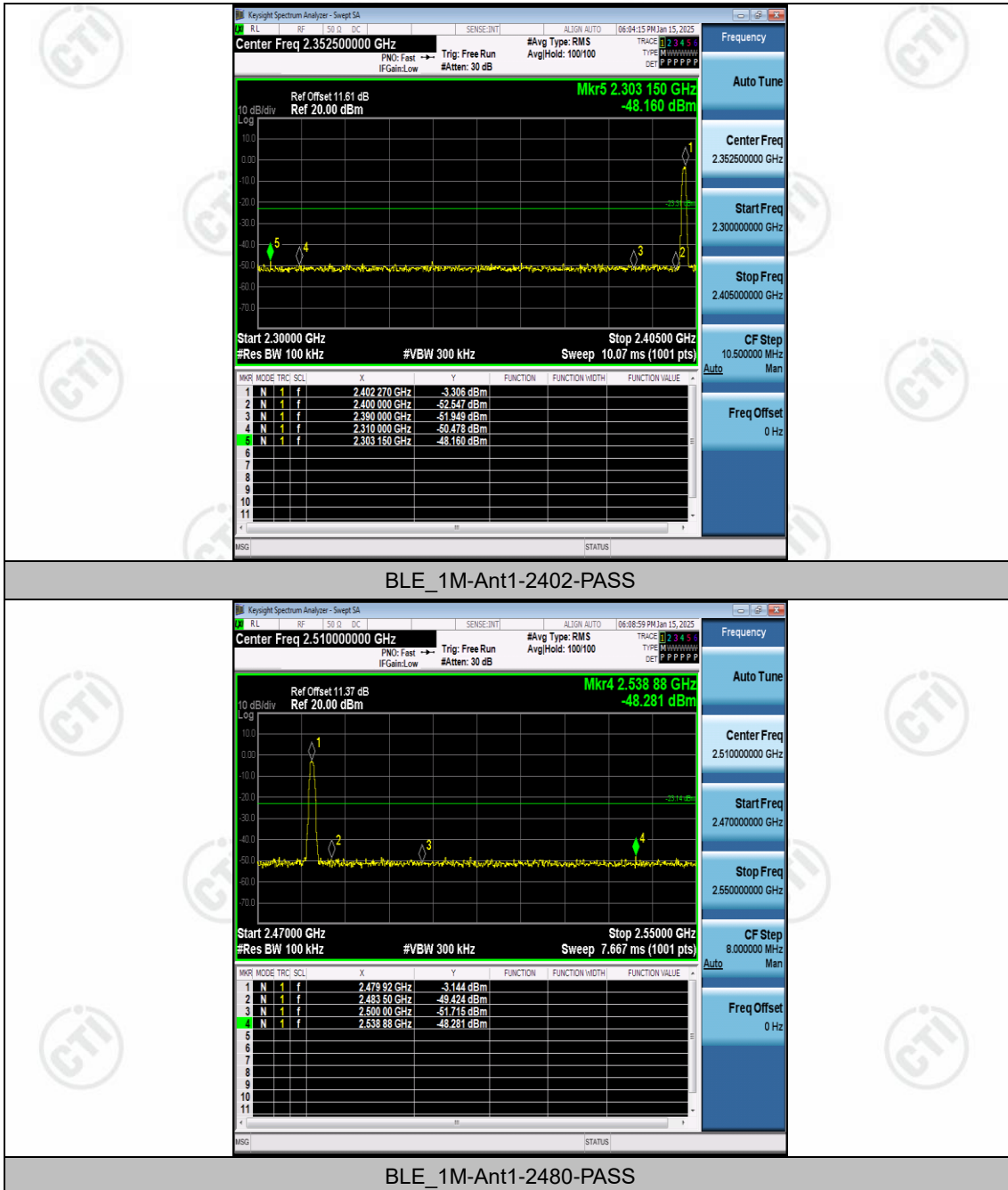


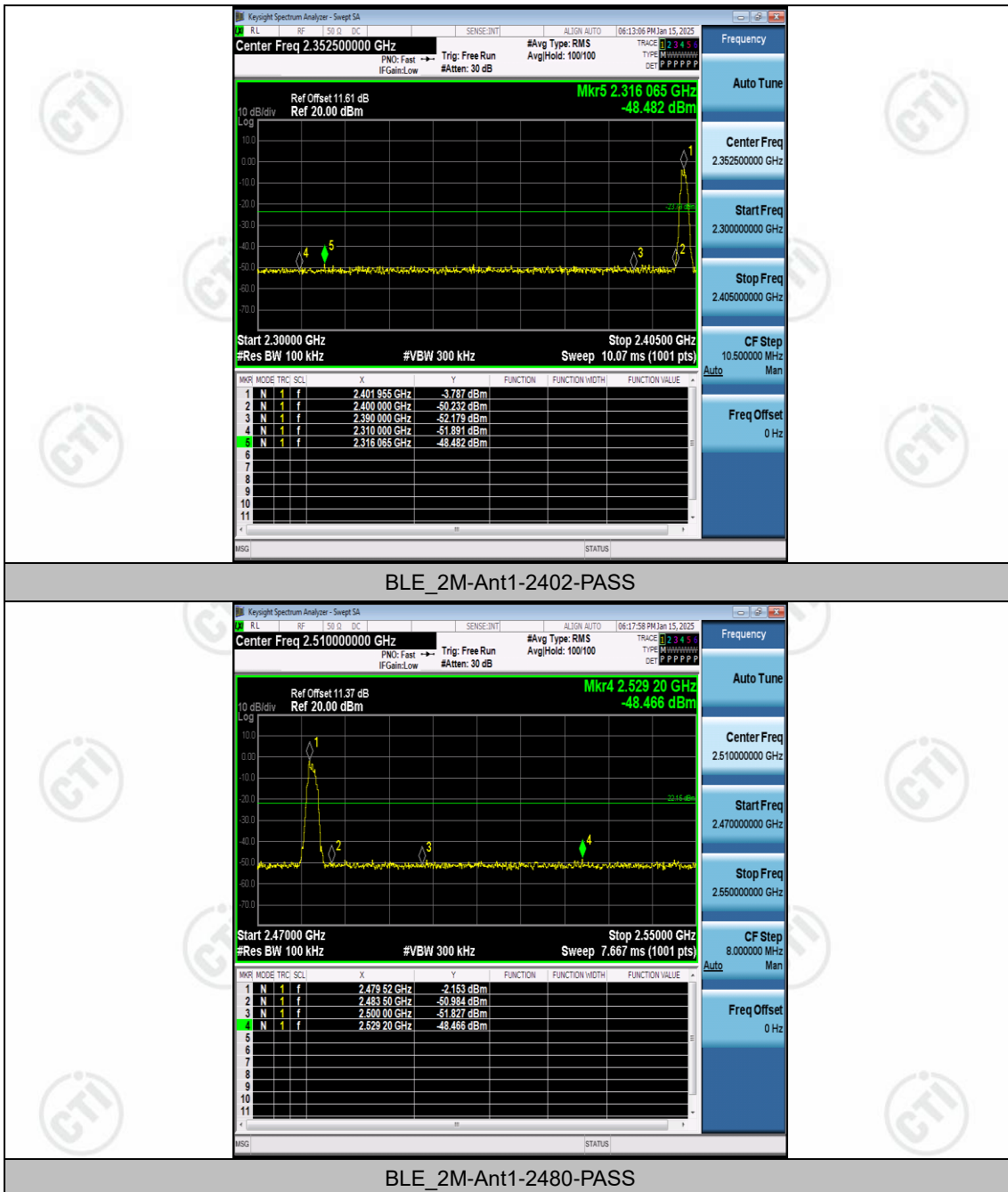


Appendix E: Band edge measurements**Test Result**

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.31	-48.16	≤-23.31	PASS
BLE_1M	Ant1	High	2480	-3.14	-48.28	≤-23.14	PASS
BLE_2M	Ant1	Low	2402	-3.79	-48.48	≤-23.79	PASS
BLE_2M	Ant1	High	2480	-2.15	-48.47	≤-22.15	PASS

Test Graphs



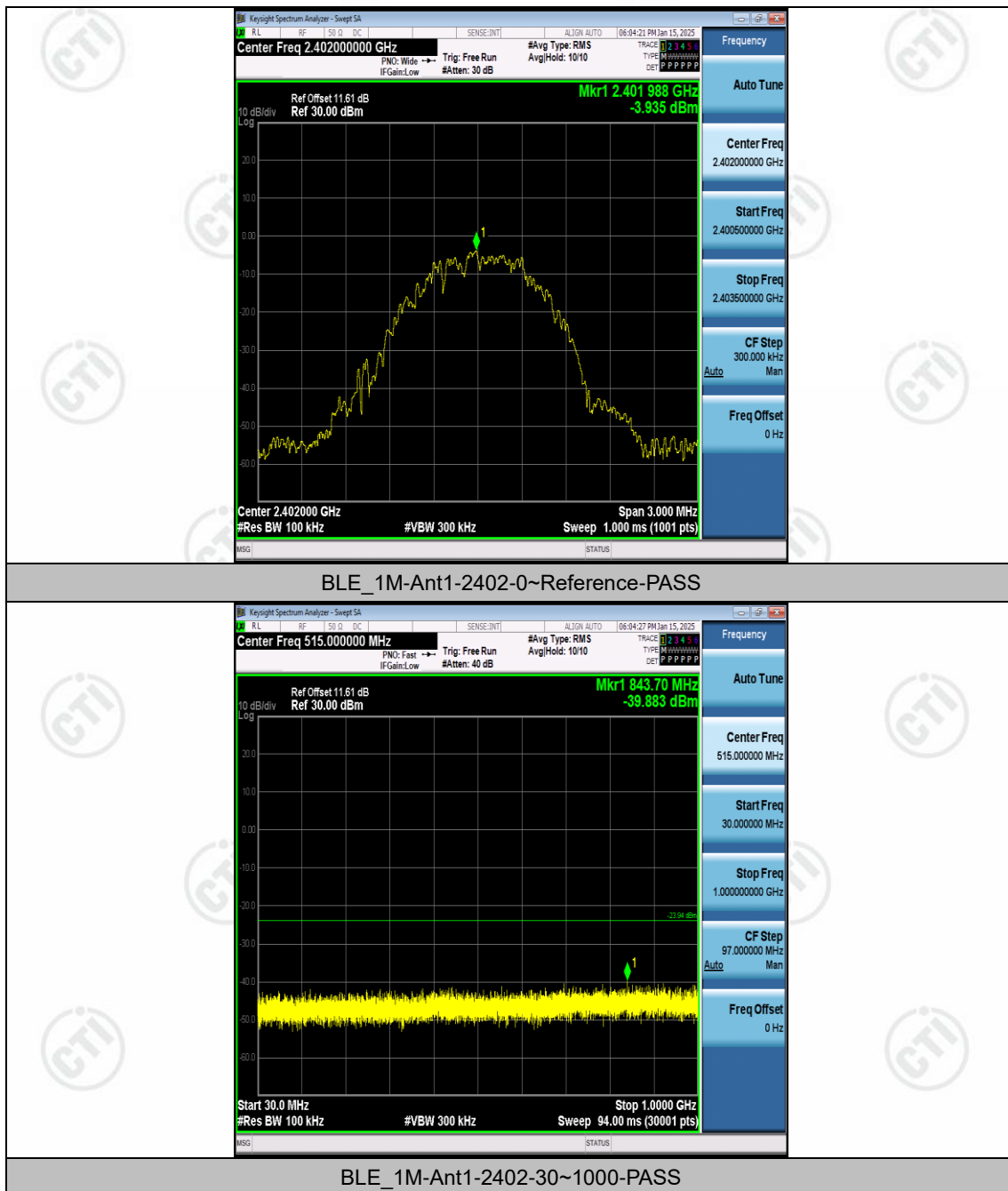


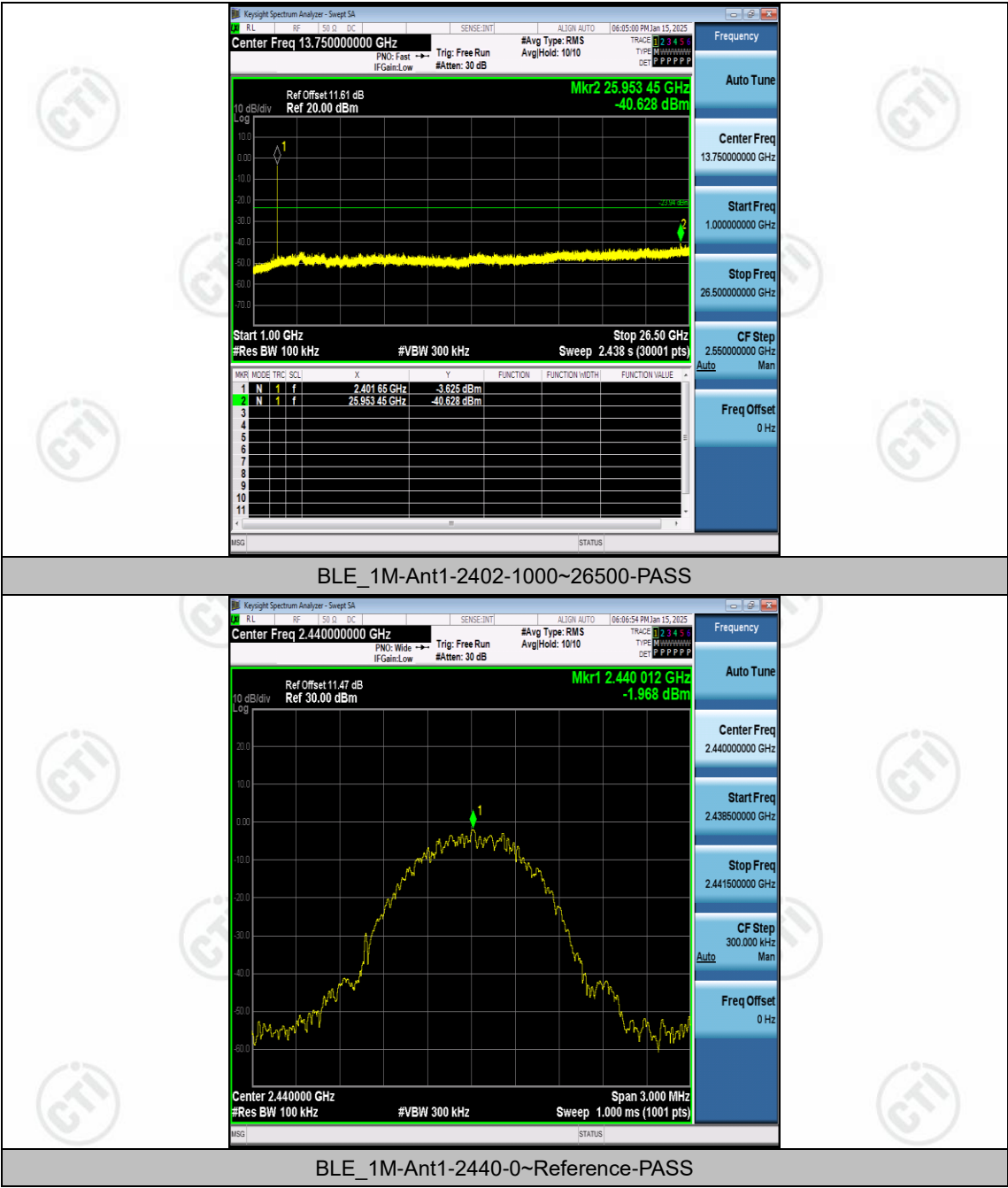
Appendix F: Conducted Spurious Emission

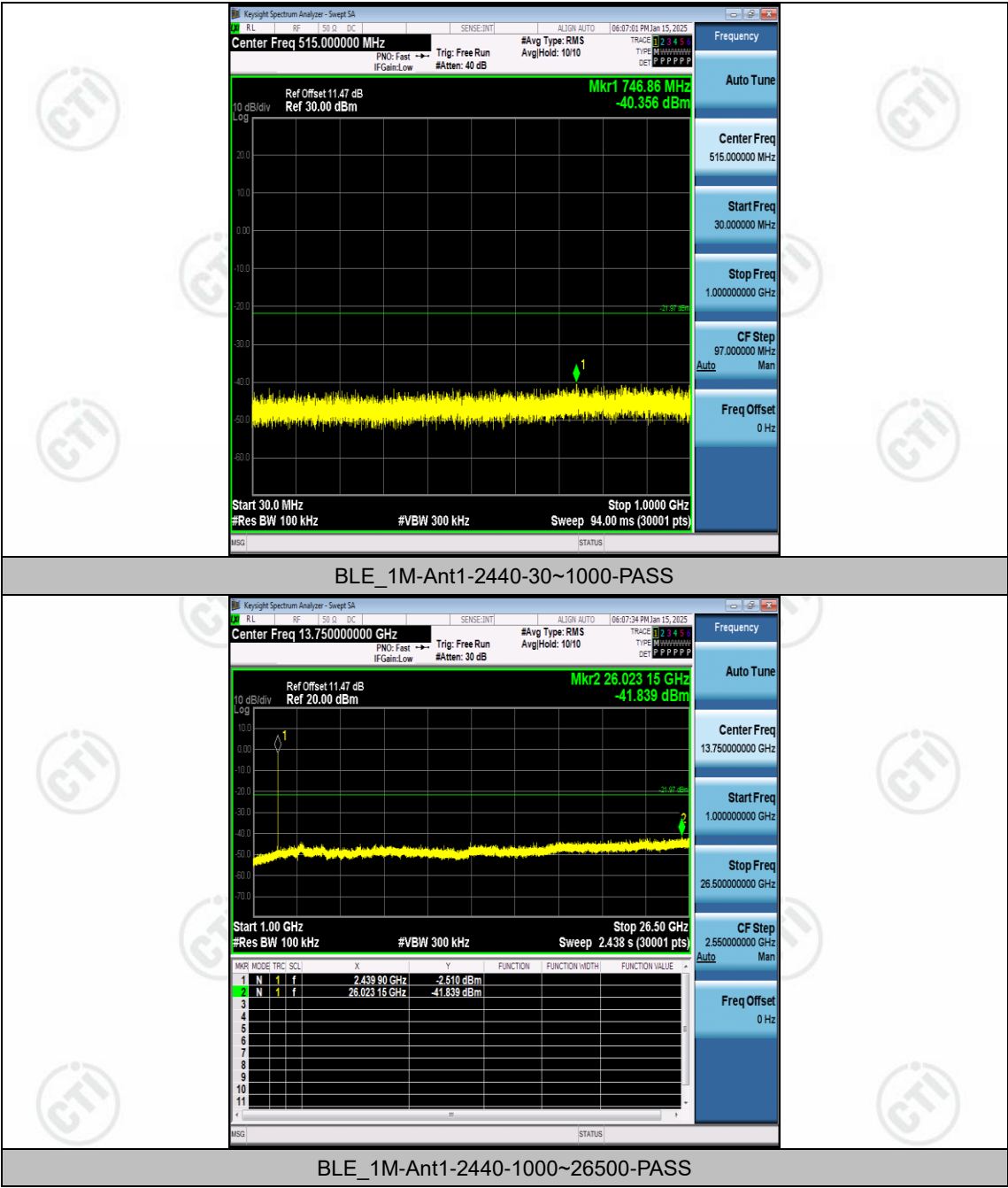
Test Result

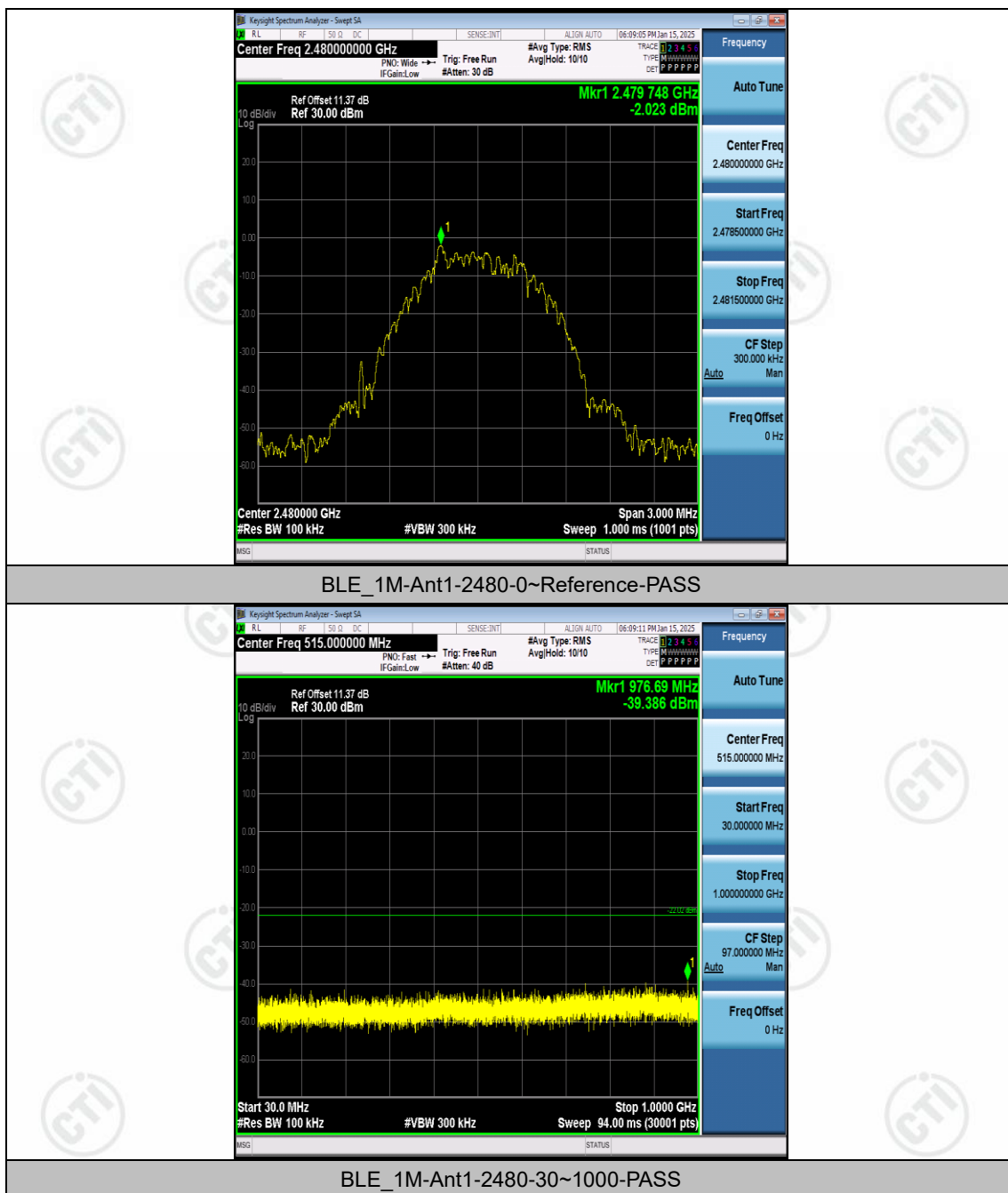
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.94	-3.94	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.94	-39.88	≤-23.94	PASS
BLE_1M	Ant1	2402	1000~26500	-3.94	-40.63	≤-23.94	PASS
BLE_1M	Ant1	2440	0~Reference	-1.97	-1.97	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.97	-40.36	≤-21.97	PASS
BLE_1M	Ant1	2440	1000~26500	-1.97	-41.84	≤-21.97	PASS
BLE_1M	Ant1	2480	0~Reference	-2.02	-2.02	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.02	-39.39	≤-22.02	PASS
BLE_1M	Ant1	2480	1000~26500	-2.02	-42.01	≤-22.02	PASS
BLE_2M	Ant1	2402	0~Reference	-5.67	-5.67	---	PASS
BLE_2M	Ant1	2402	30~1000	-5.67	-40.08	≤-25.67	PASS
BLE_2M	Ant1	2402	1000~26500	-5.67	-41.27	≤-25.67	PASS
BLE_2M	Ant1	2440	0~Reference	-5.07	-5.07	---	PASS
BLE_2M	Ant1	2440	30~1000	-5.07	-40.23	≤-25.07	PASS
BLE_2M	Ant1	2440	1000~26500	-5.07	-42.06	≤-25.07	PASS
BLE_2M	Ant1	2480	0~Reference	-4.49	-4.49	---	PASS
BLE_2M	Ant1	2480	30~1000	-4.49	-39.31	≤-24.49	PASS
BLE_2M	Ant1	2480	1000~26500	-4.49	-41.14	≤-24.49	PASS

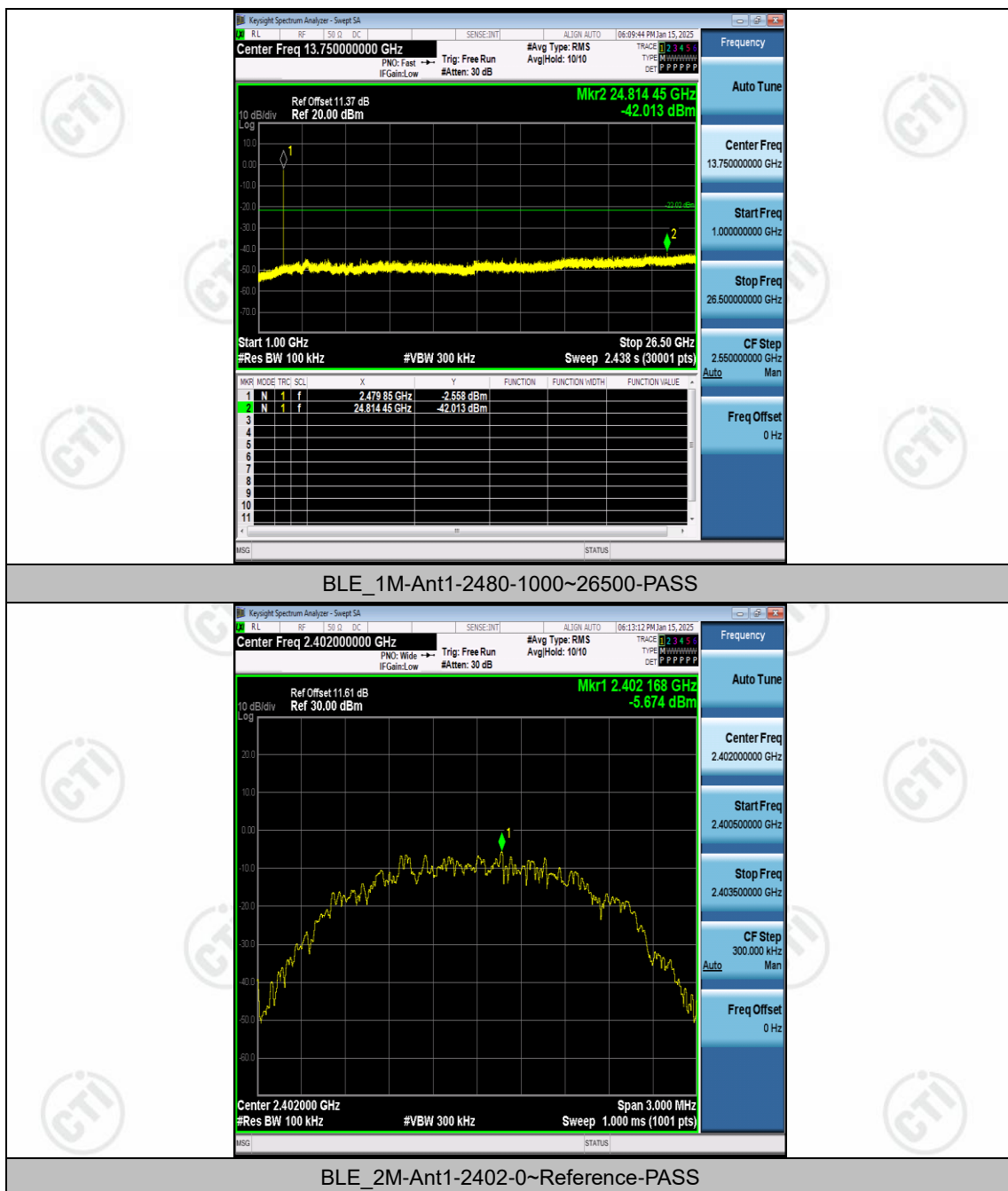
Test Graphs

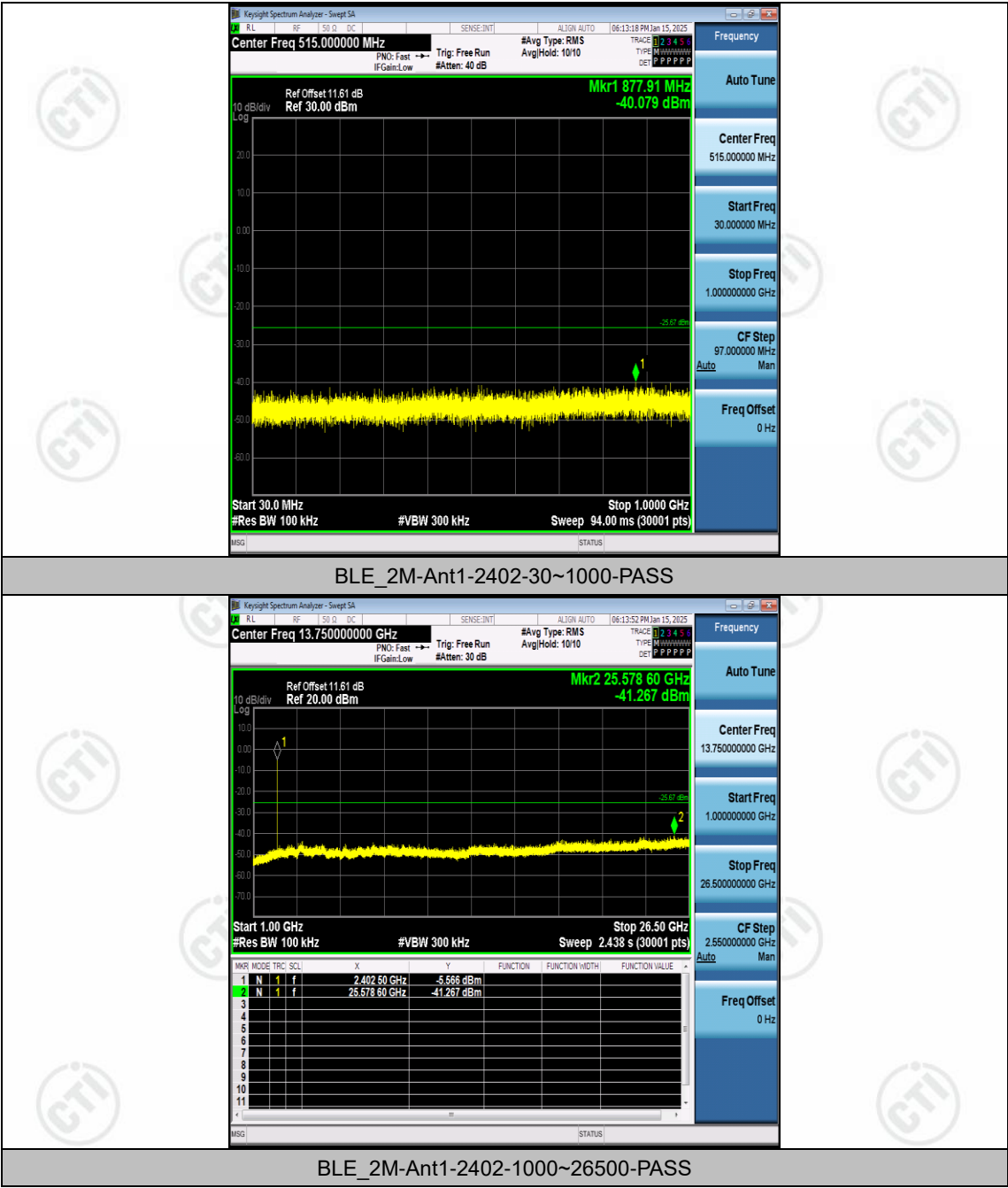


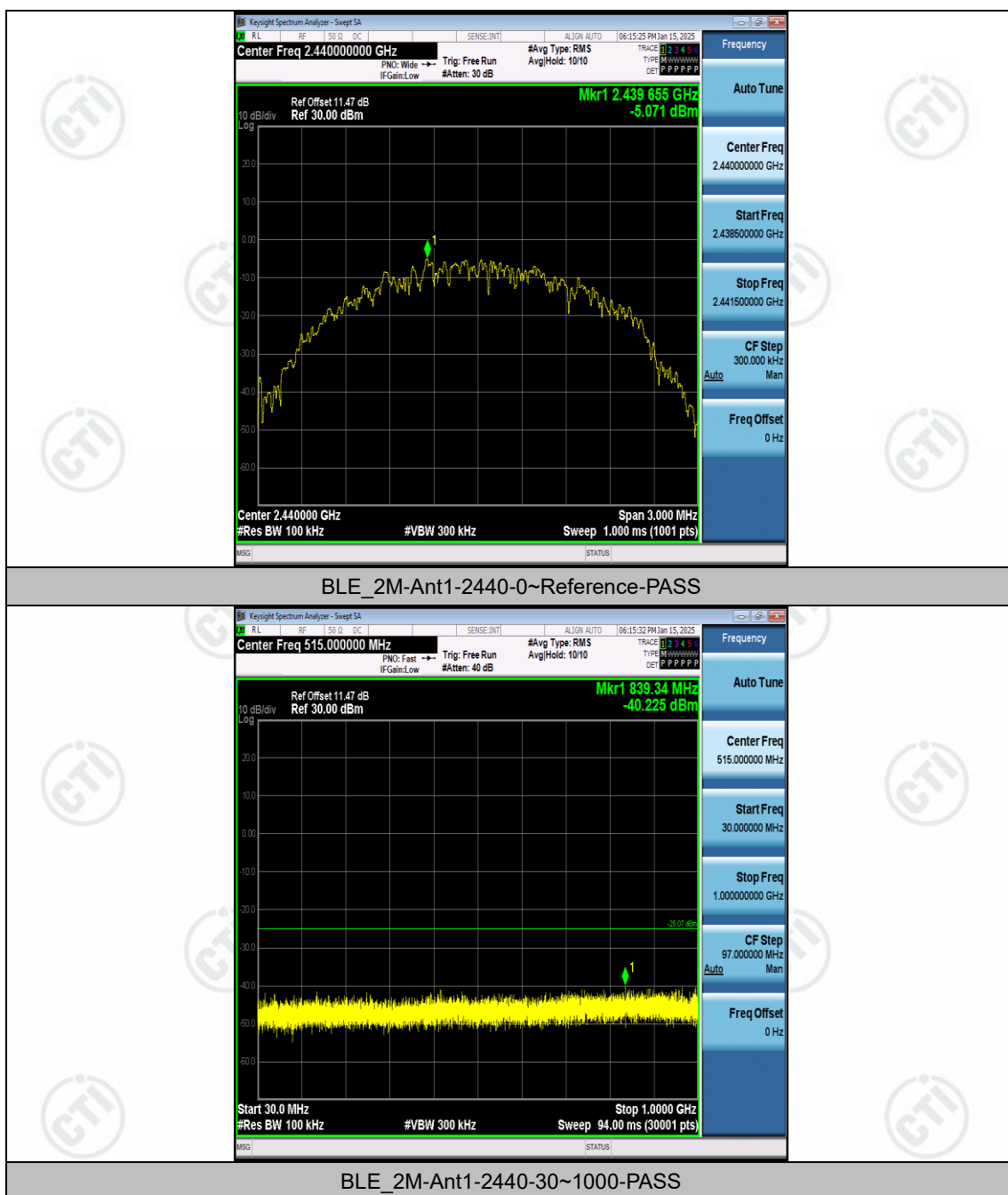


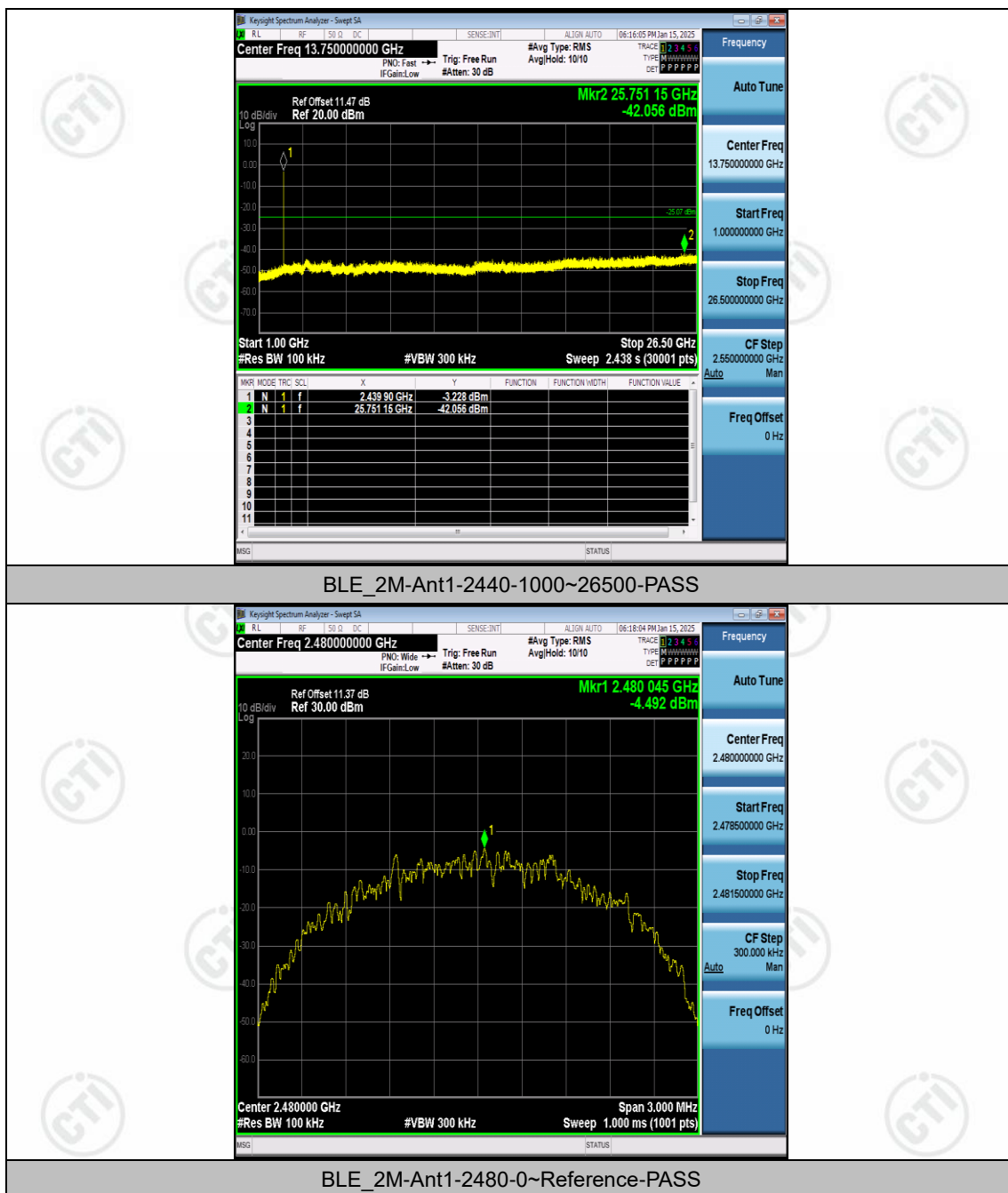


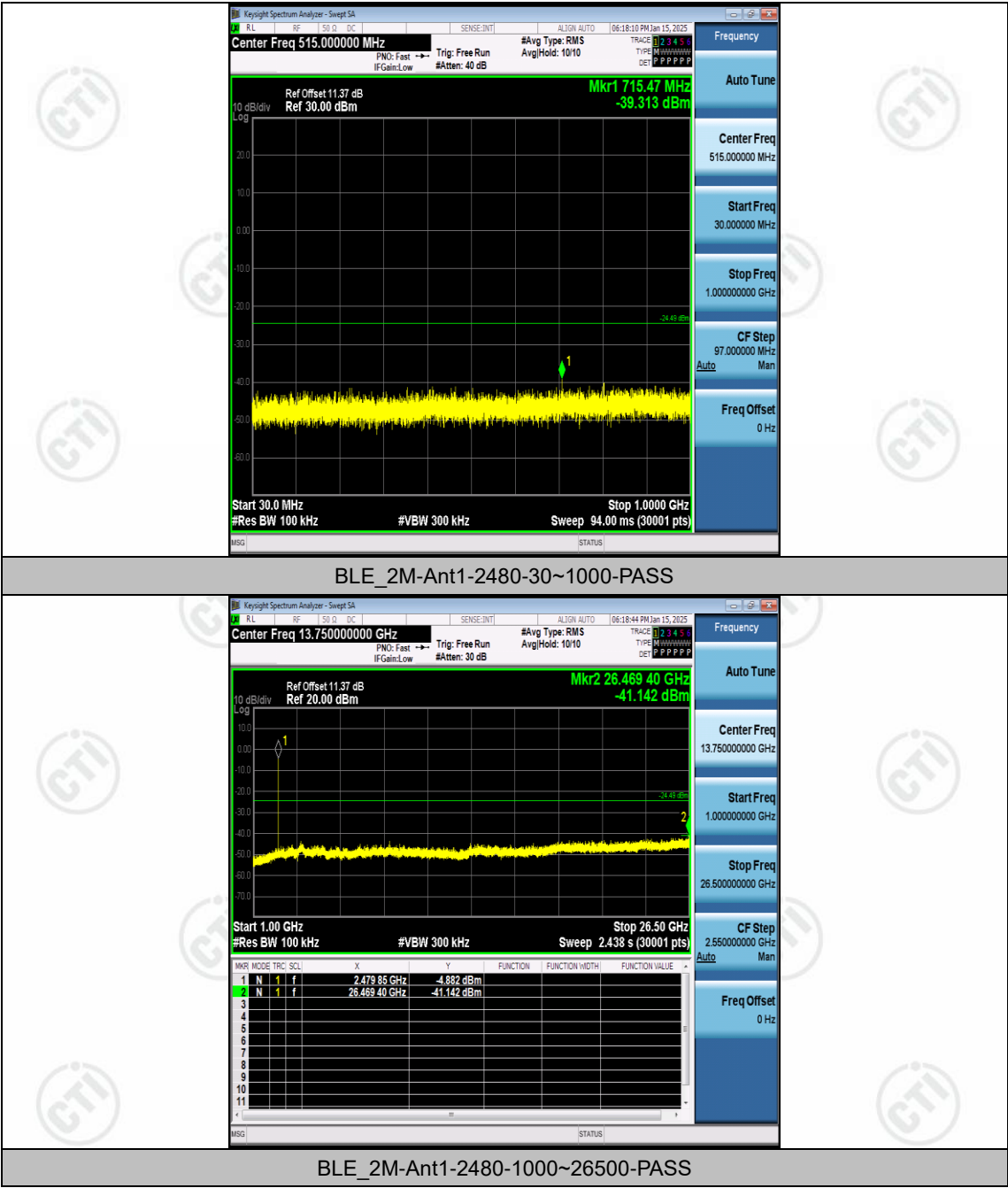










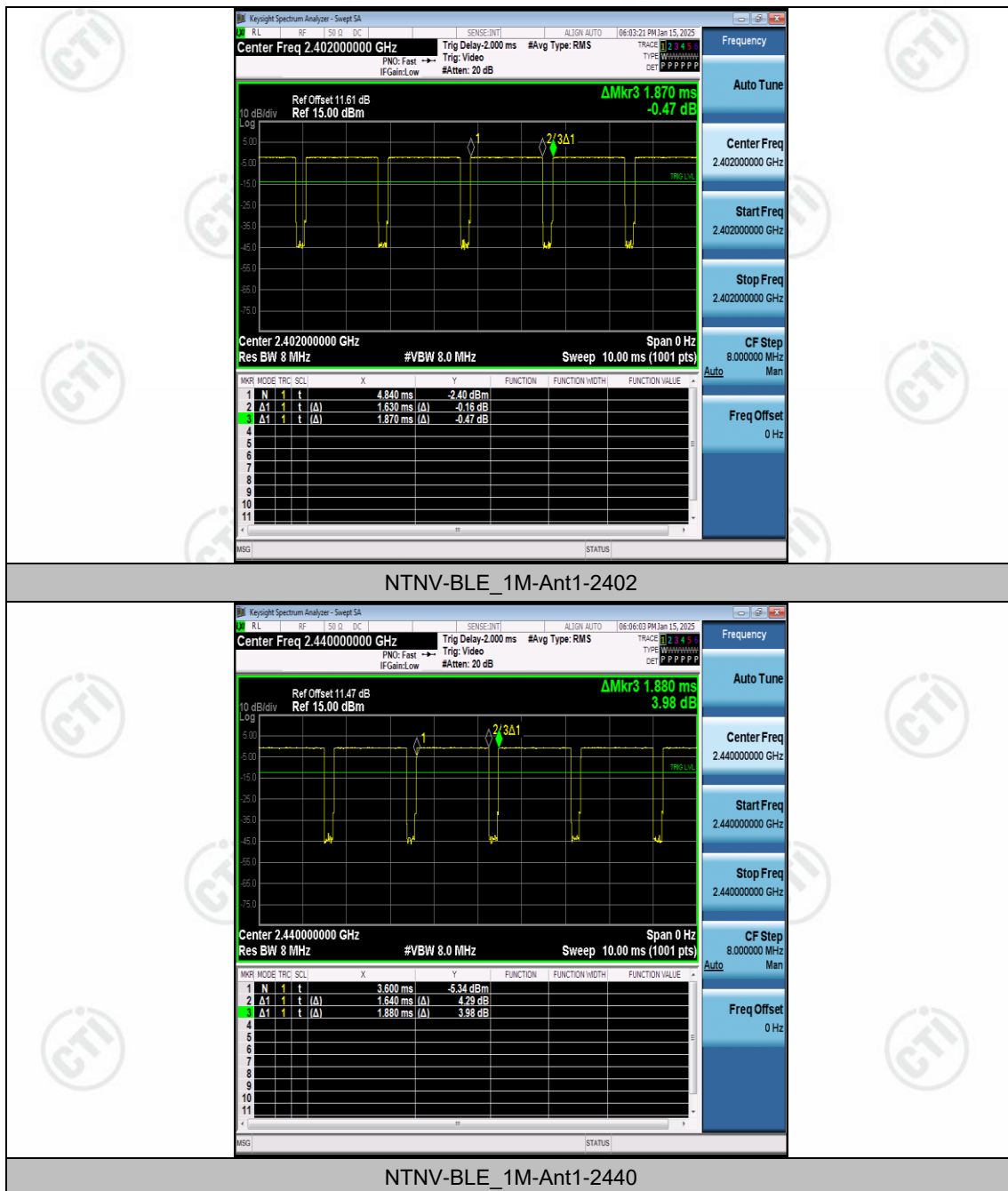


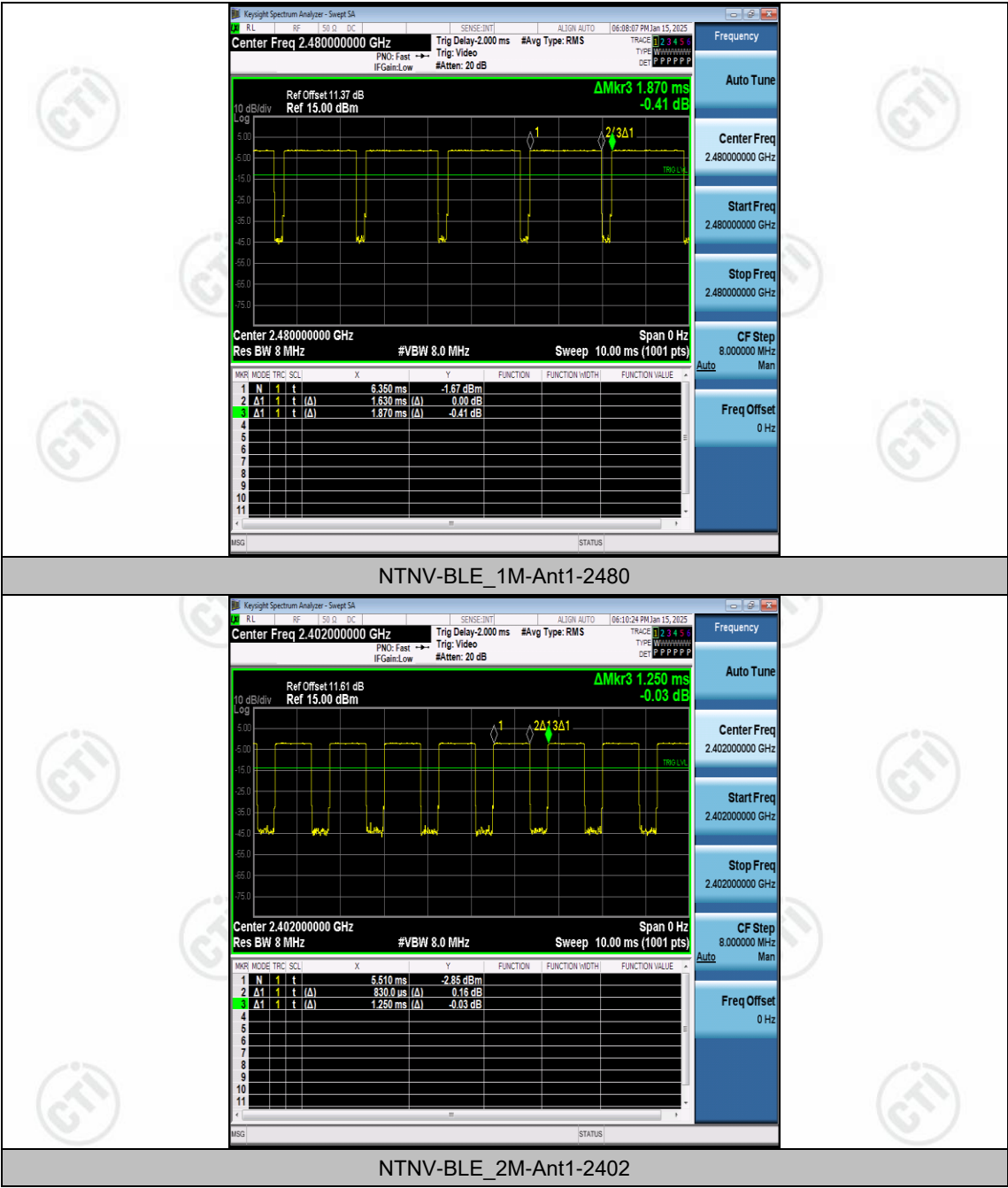
Appendix G: Duty Cycle

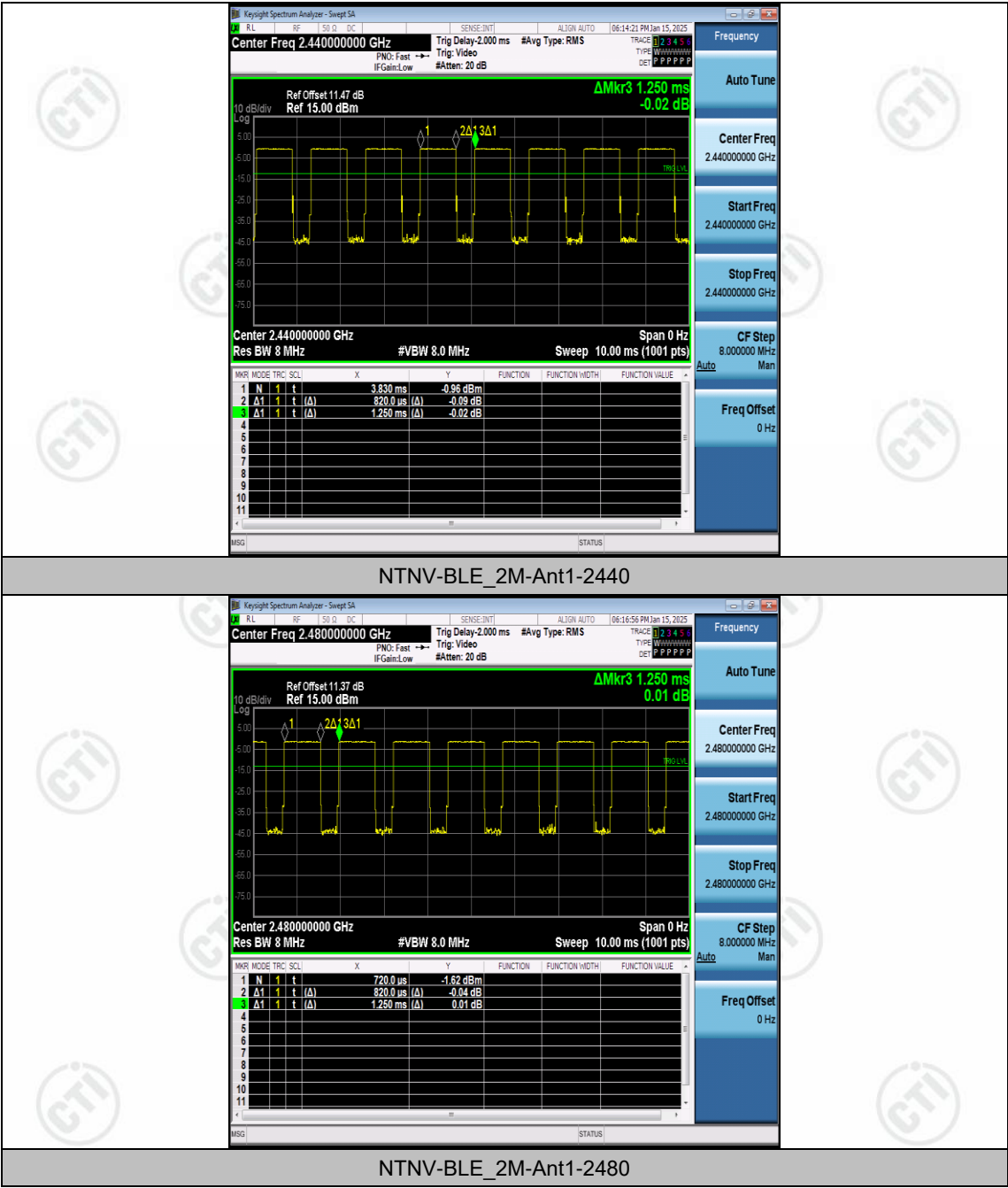
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.63	1.87	87.17	0.60
BLE_1M	Ant1	2440	1.64	1.88	87.23	0.59
BLE_1M	Ant1	2480	1.63	1.87	87.17	0.60
BLE_2M	Ant1	2402	0.83	1.25	66.40	1.78
BLE_2M	Ant1	2440	0.82	1.25	65.60	1.83
BLE_2M	Ant1	2480	0.82	1.25	65.60	1.83

Test Graphs







*** End of Report ***