

Appendix: Bluetooth LE

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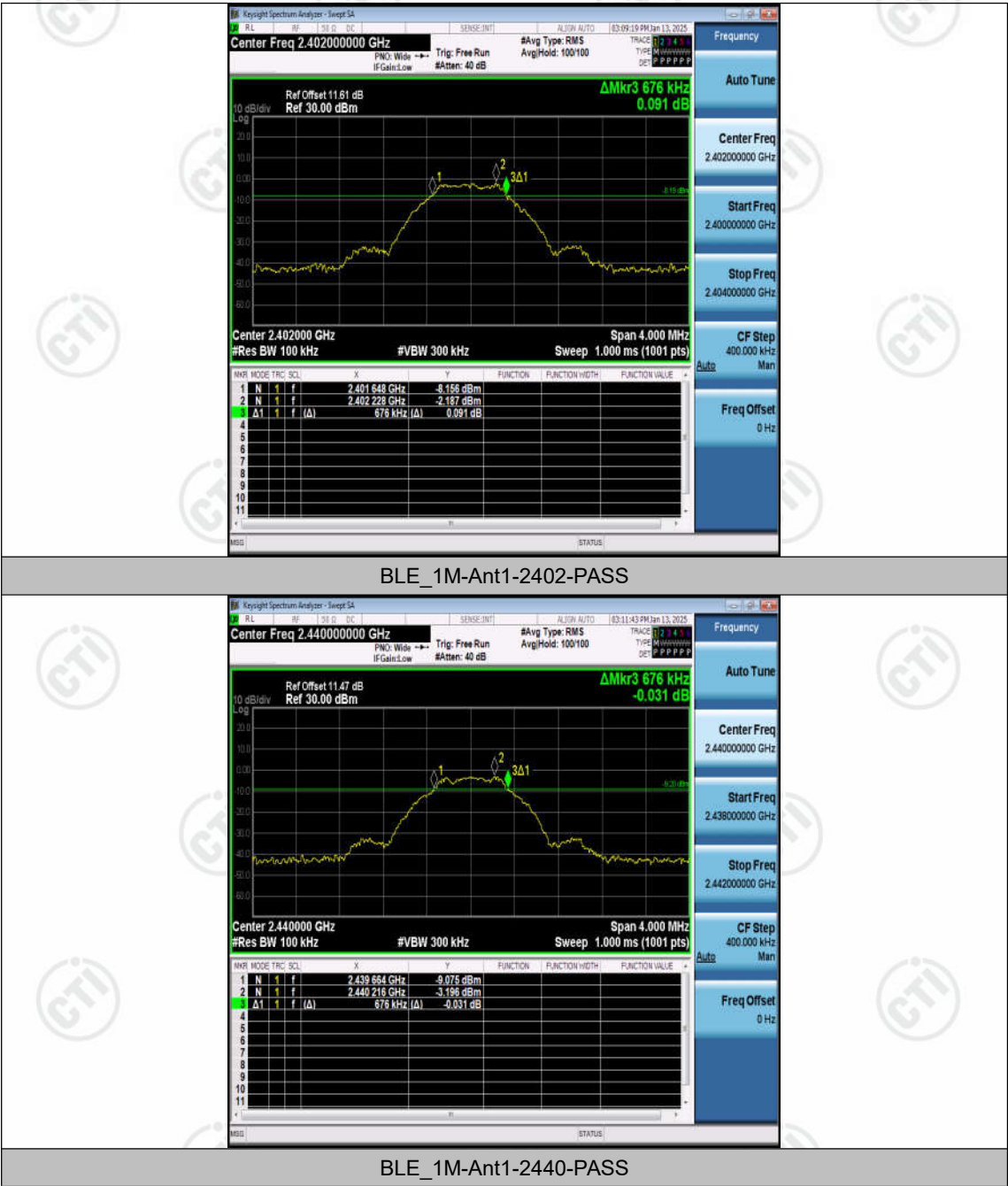
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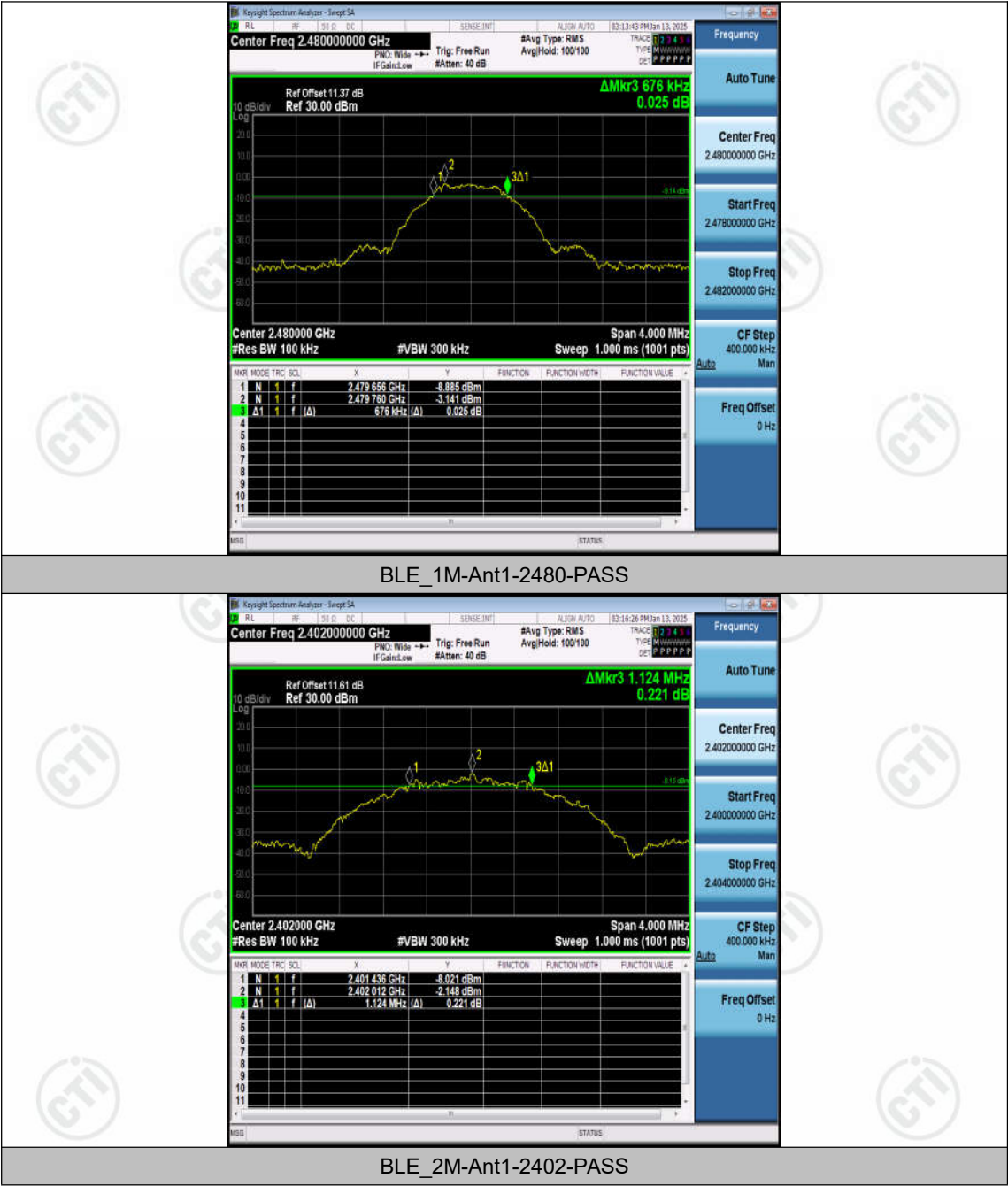
Appendix A: DTS Bandwidth

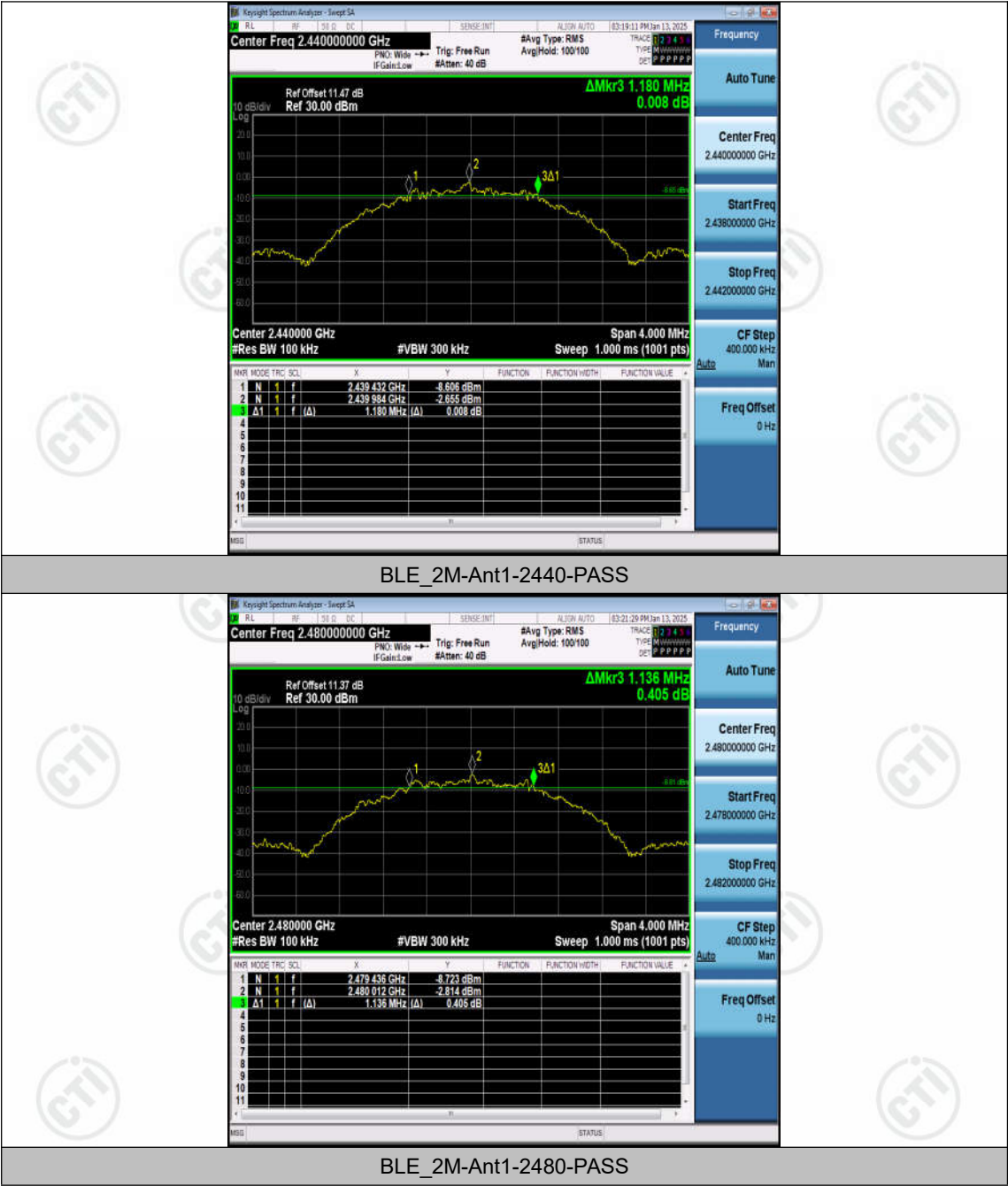
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.648	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.676	2439.664	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.676	2479.656	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.124	2401.436	2402.560	0.5	PASS
BLE_2M	Ant1	2440	1.180	2439.432	2440.612	0.5	PASS
BLE_2M	Ant1	2480	1.136	2479.436	2480.572	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	1.0308	2401.4895	2402.5203	---	---
BLE_1M	Ant1	2440	1.0393	2439.4808	2440.5201	---	---
BLE_1M	Ant1	2480	1.0287	2479.4824	2480.5111	---	---
BLE_2M	Ant1	2402	2.0692	2400.9798	2403.0490	---	---
BLE_2M	Ant1	2440	2.0768	2438.9723	2441.0491	---	---
BLE_2M	Ant1	2480	2.0799	2478.9730	2481.0529	---	---

Test Graphs





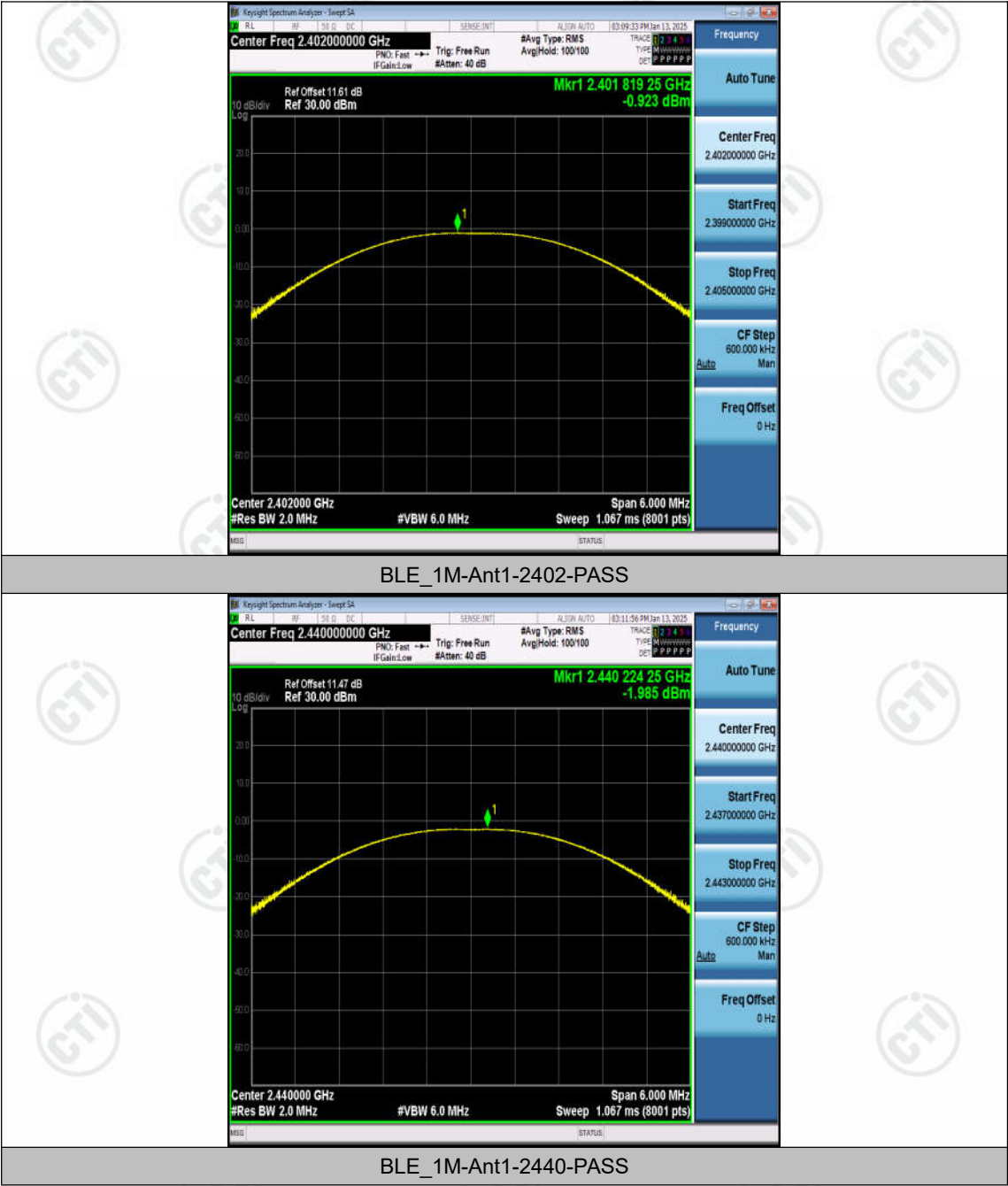


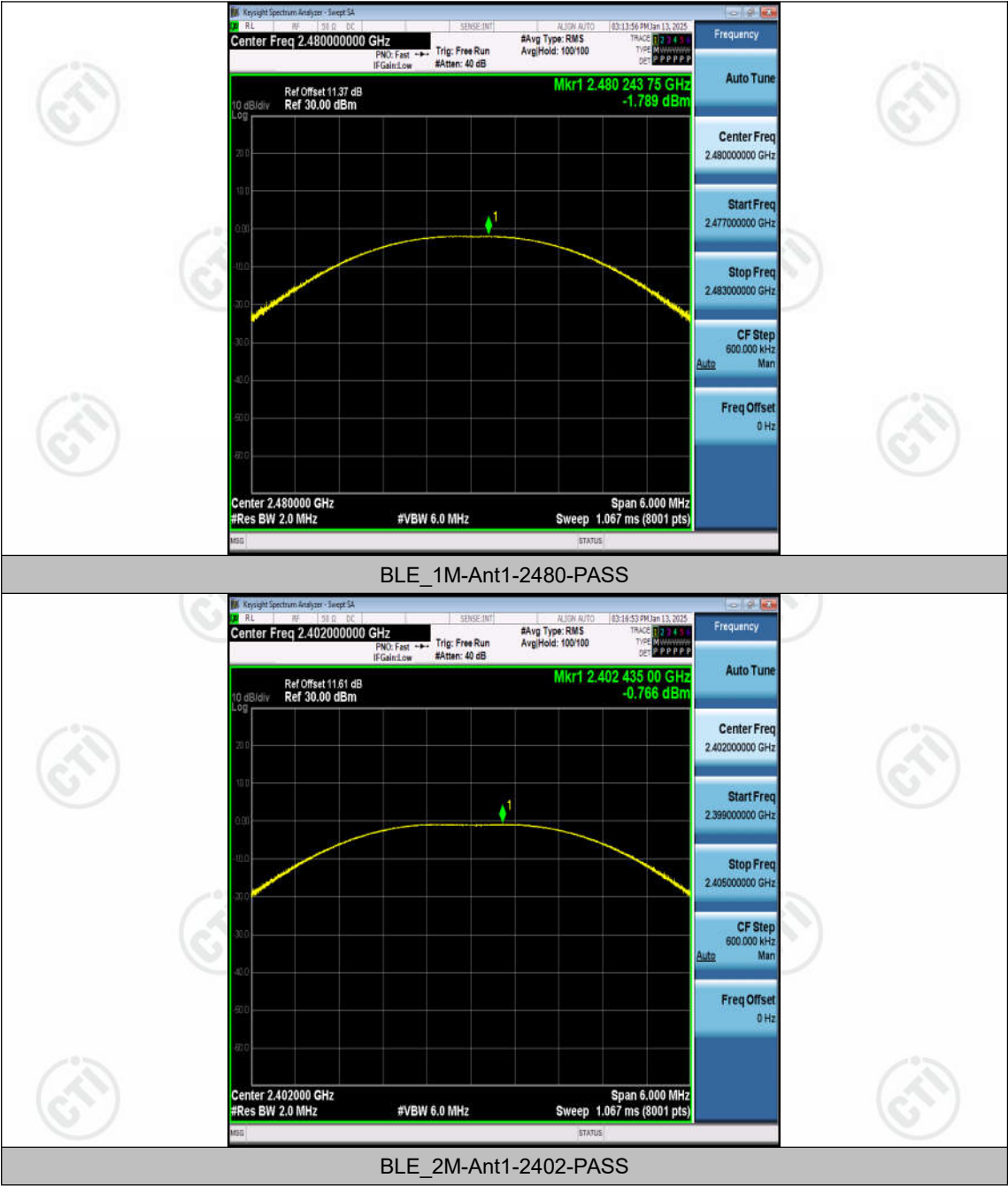
Appendix C: Maximum conducted output power

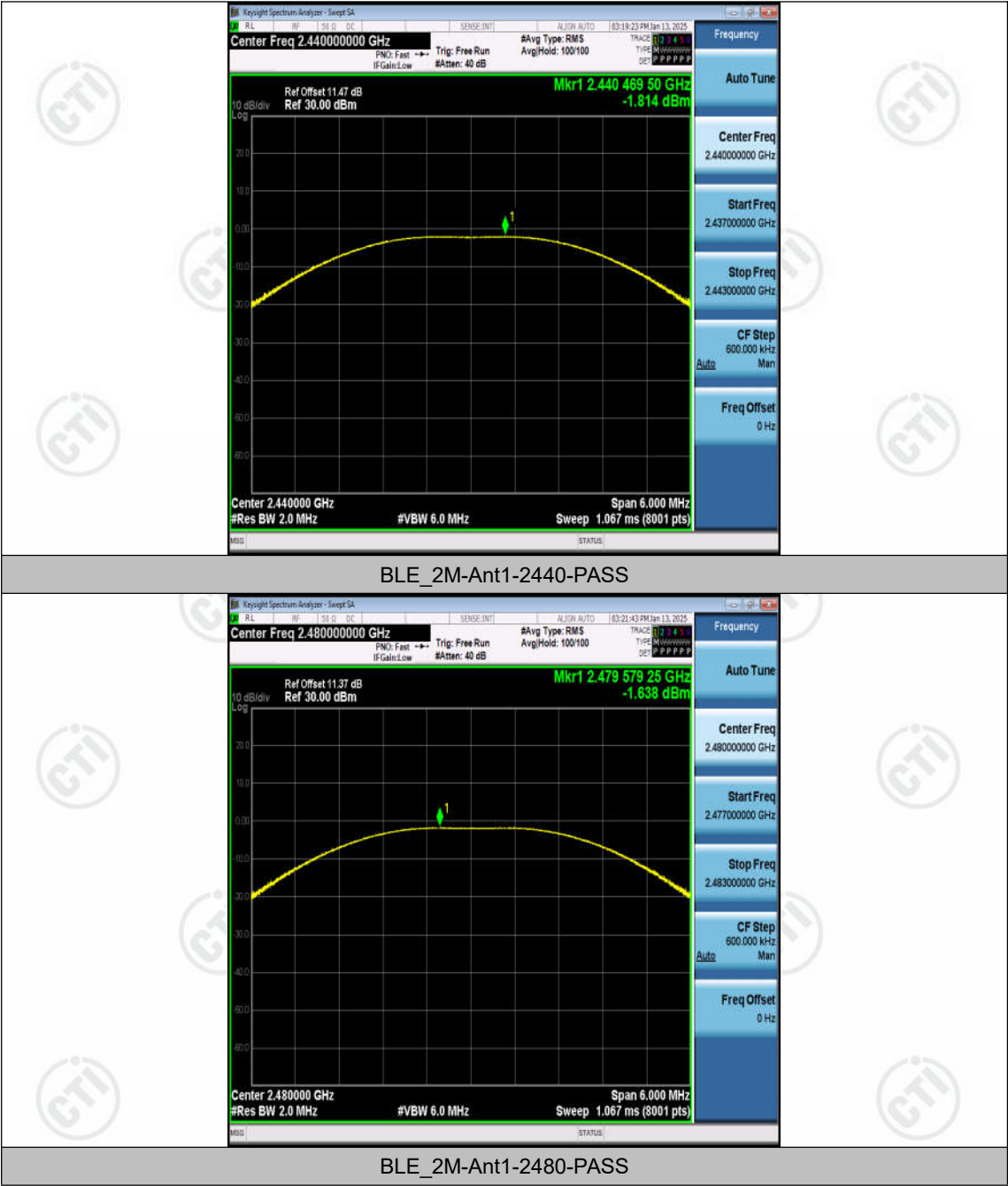
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.92	≤30	PASS
BLE_1M	Ant1	2440	-1.99	≤30	PASS
BLE_1M	Ant1	2480	-1.79	≤30	PASS
BLE_2M	Ant1	2402	-0.77	≤30	PASS
BLE_2M	Ant1	2440	-1.81	≤30	PASS
BLE_2M	Ant1	2480	-1.64	≤30	PASS

Test Graphs Peak





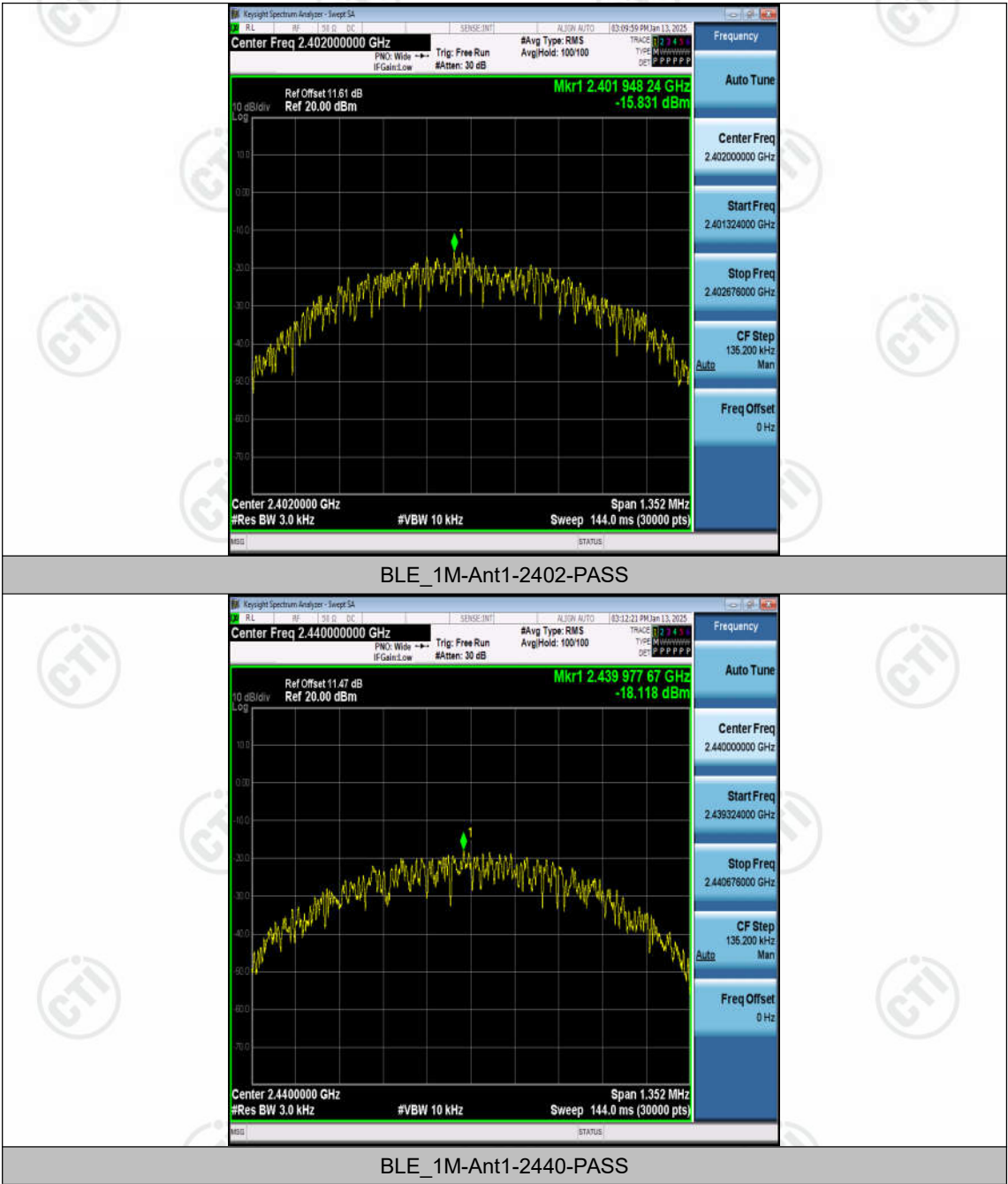


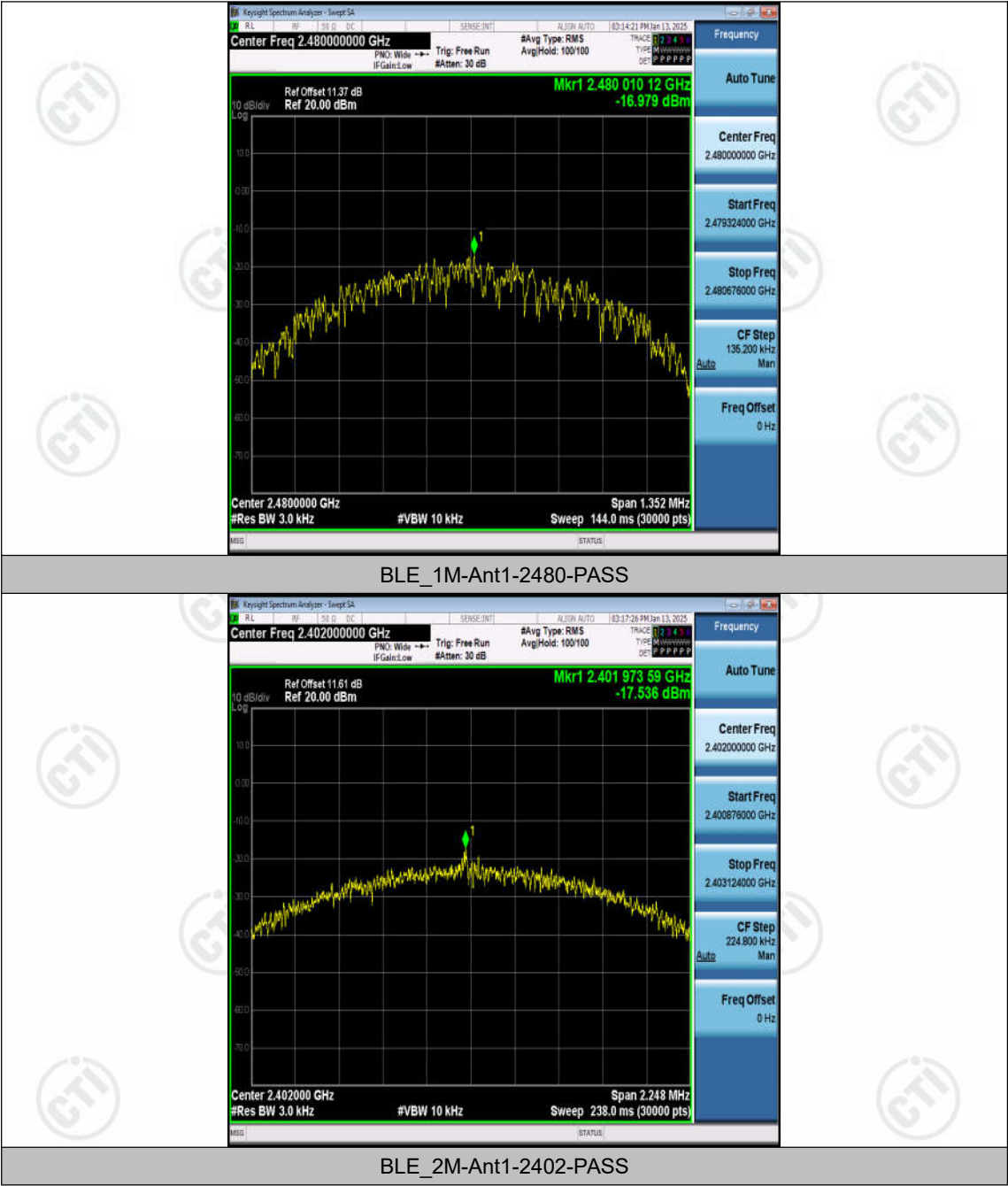
Appendix D: Maximum power spectral density

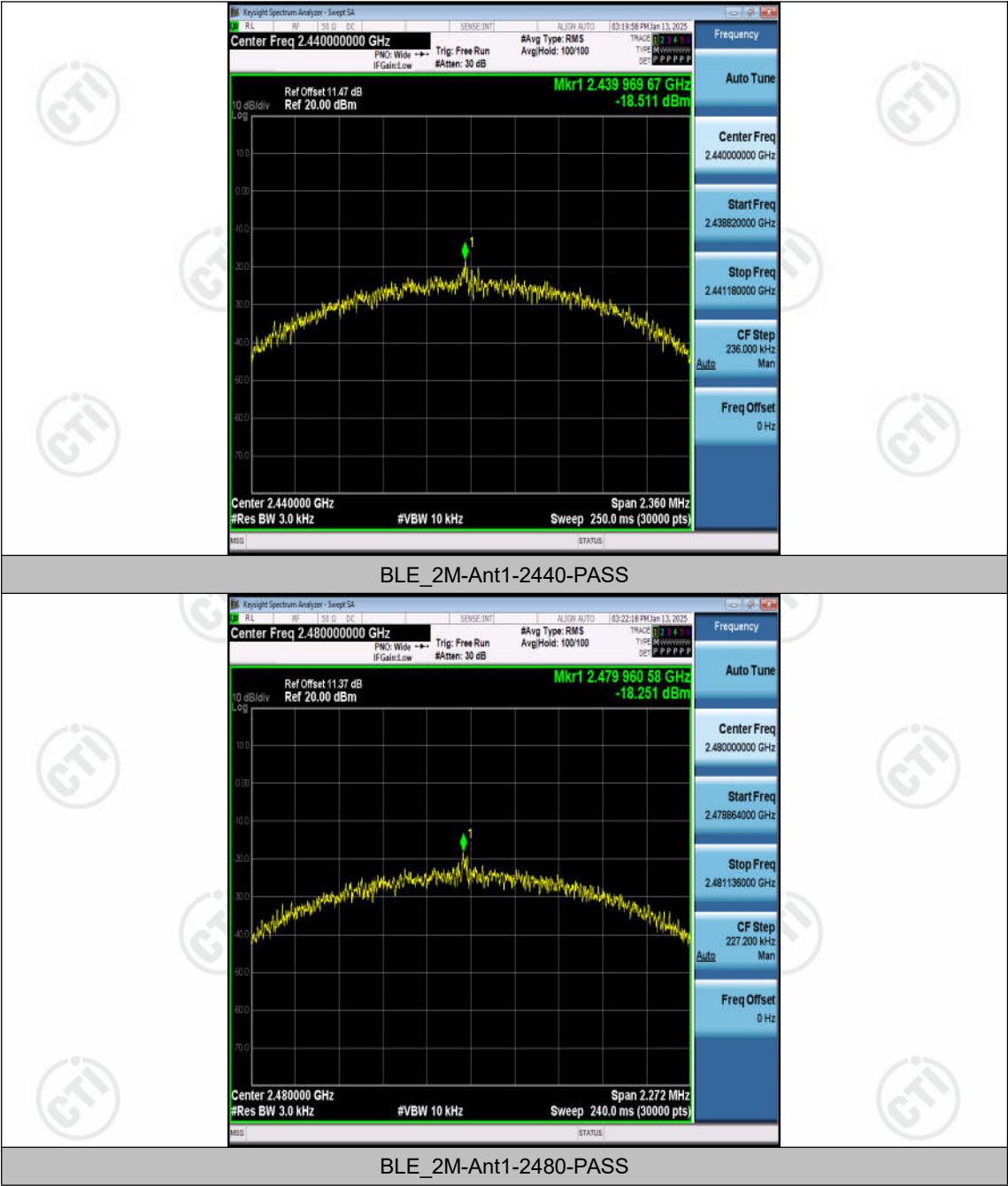
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.83	≤8.00	PASS
BLE_1M	Ant1	2440	-18.12	≤8.00	PASS
BLE_1M	Ant1	2480	-16.98	≤8.00	PASS
BLE_2M	Ant1	2402	-17.54	≤8.00	PASS
BLE_2M	Ant1	2440	-18.51	≤8.00	PASS
BLE_2M	Ant1	2480	-18.25	≤8.00	PASS

Test Graphs





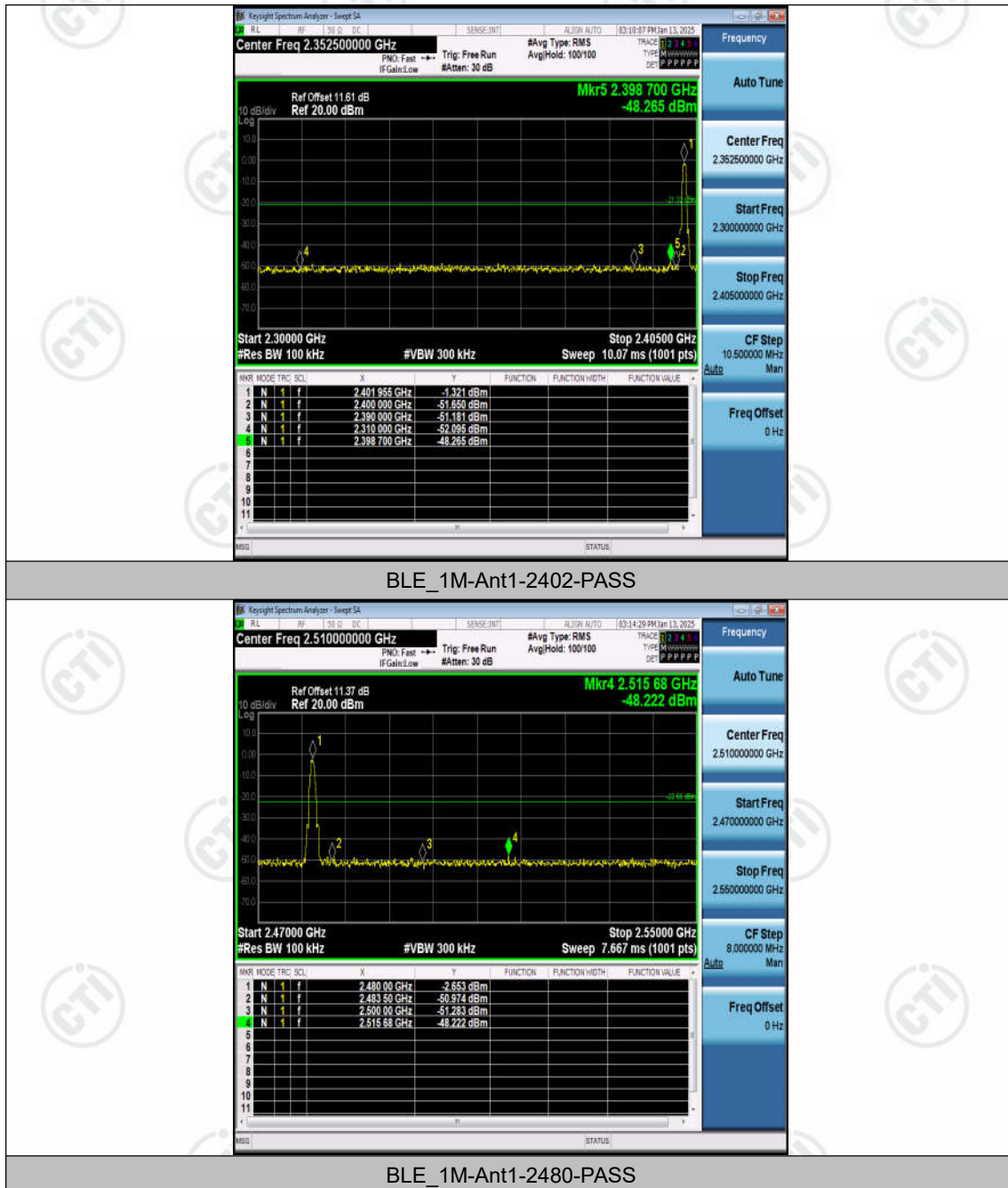


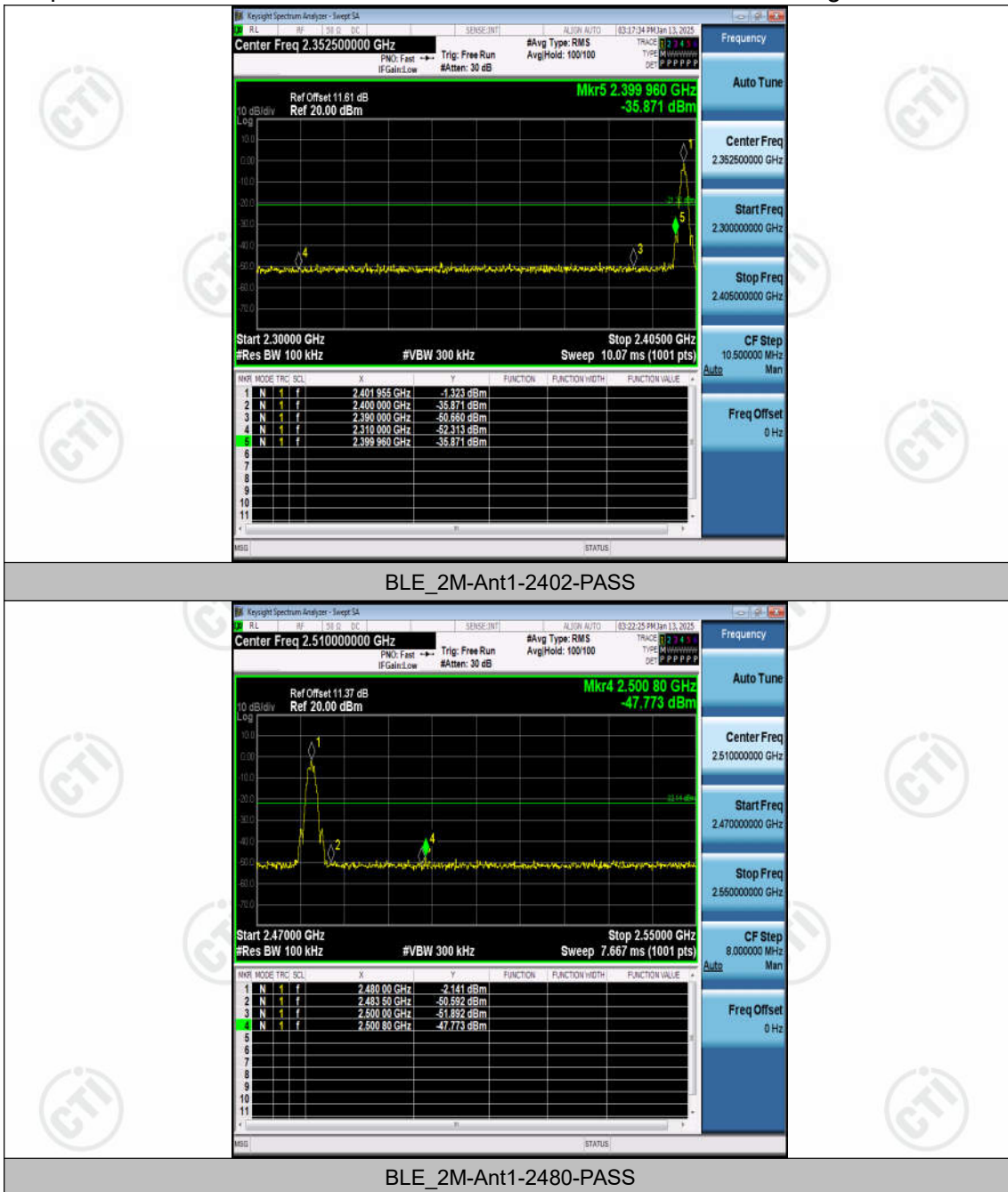
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.32	-48.27	≤-21.32	PASS
BLE_1M	Ant1	High	2480	-2.65	-48.22	≤-22.65	PASS
BLE_2M	Ant1	Low	2402	-1.32	-35.87	≤-21.32	PASS
BLE_2M	Ant1	High	2480	-2.14	-47.77	≤-22.14	PASS

Test Graphs



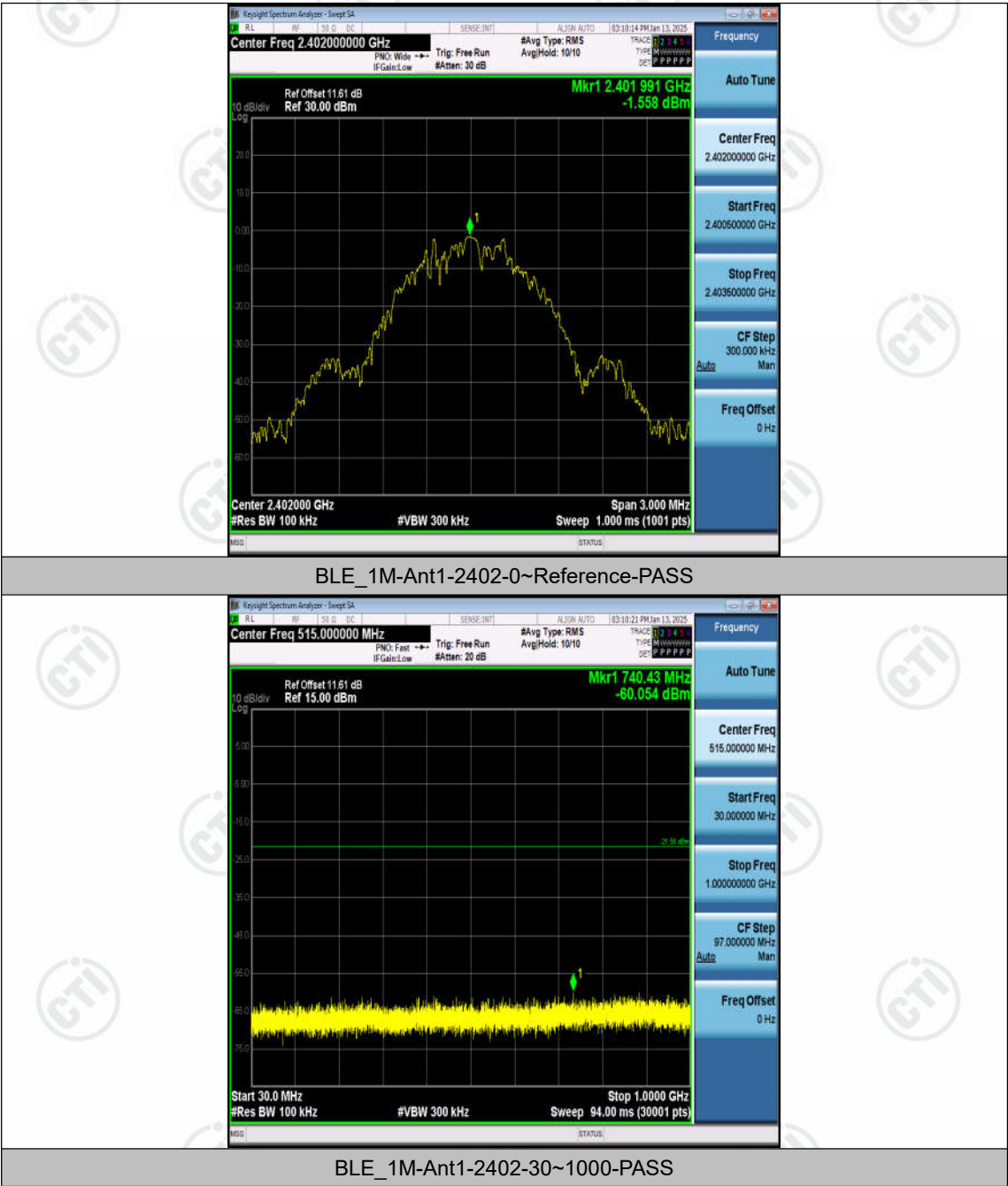


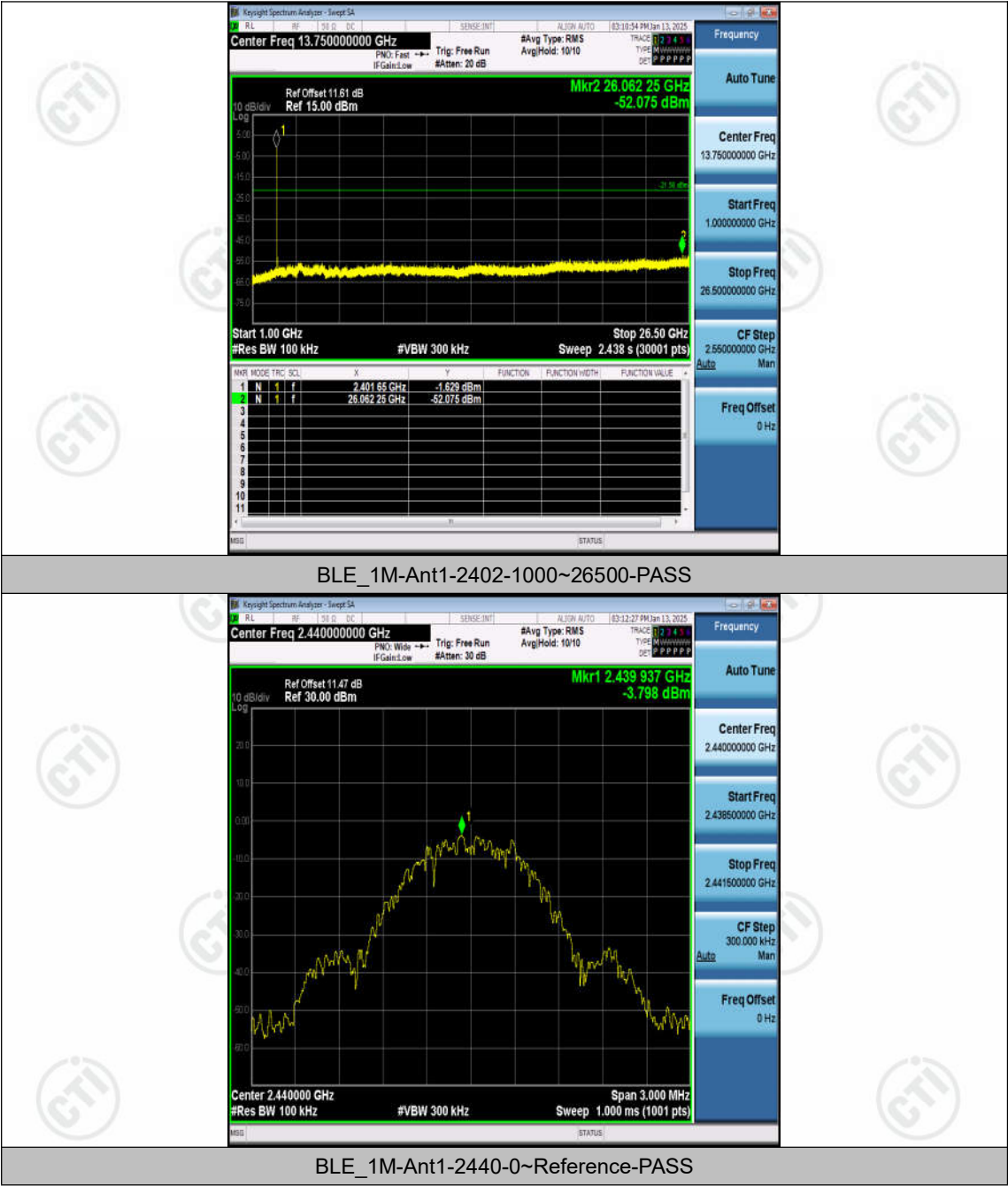
Appendix F: Conducted Spurious Emission

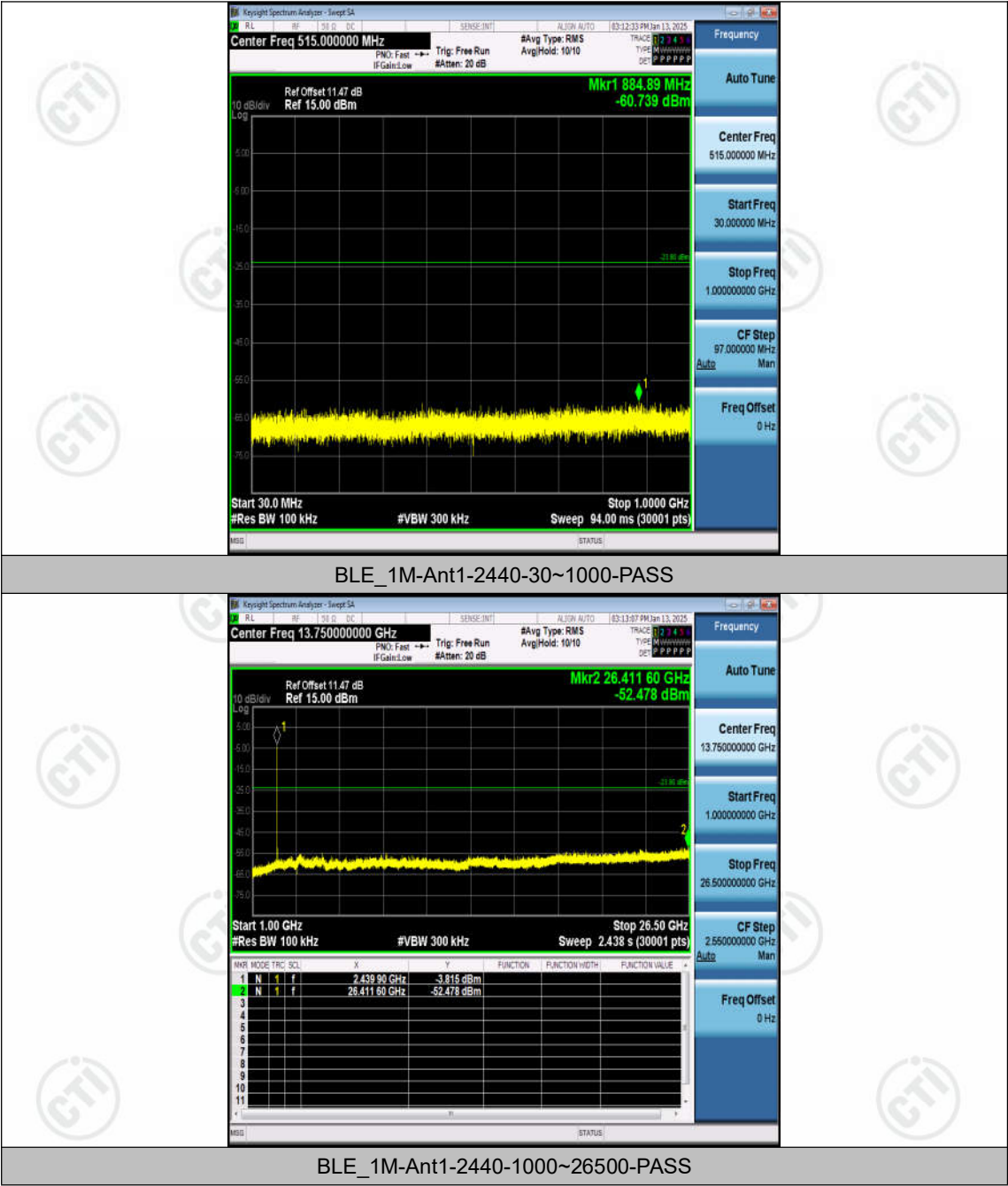
Test Result

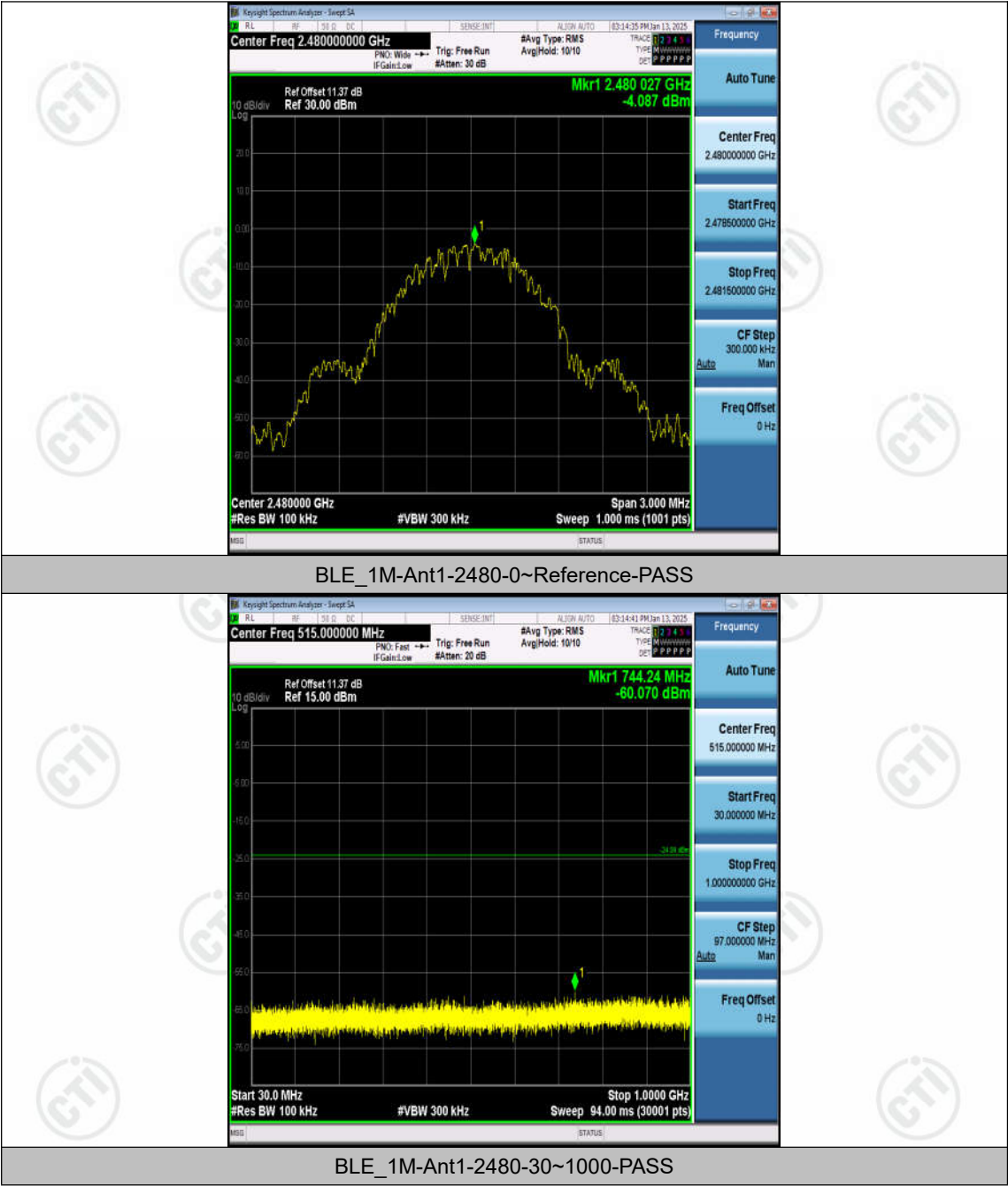
TestMode	Antenna	Frequency[M Hz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.56	-1.56	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.56	-60.05	≤-21.56	PASS
BLE_1M	Ant1	2402	1000~26500	-1.56	-52.08	≤-21.56	PASS
BLE_1M	Ant1	2440	0~Reference	-3.80	-3.80	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.80	-60.74	≤-23.8	PASS
BLE_1M	Ant1	2440	1000~26500	-3.80	-52.48	≤-23.8	PASS
BLE_1M	Ant1	2480	0~Reference	-4.09	-4.09	---	PASS
BLE_1M	Ant1	2480	30~1000	-4.09	-60.07	≤-24.09	PASS
BLE_1M	Ant1	2480	1000~26500	-4.09	-52.38	≤-24.09	PASS
BLE_2M	Ant1	2402	0~Reference	-2.35	-2.35	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.35	-59.53	≤-22.35	PASS
BLE_2M	Ant1	2402	1000~26500	-2.35	-51.65	≤-22.35	PASS
BLE_2M	Ant1	2440	0~Reference	-6.09	-6.09	---	PASS
BLE_2M	Ant1	2440	30~1000	-6.09	-60.15	≤-26.09	PASS
BLE_2M	Ant1	2440	1000~26500	-6.09	-50.82	≤-26.09	PASS
BLE_2M	Ant1	2480	0~Reference	-4.07	-4.07	---	PASS
BLE_2M	Ant1	2480	30~1000	-4.07	-59.3	≤-24.07	PASS
BLE_2M	Ant1	2480	1000~26500	-4.07	-51.24	≤-24.07	PASS

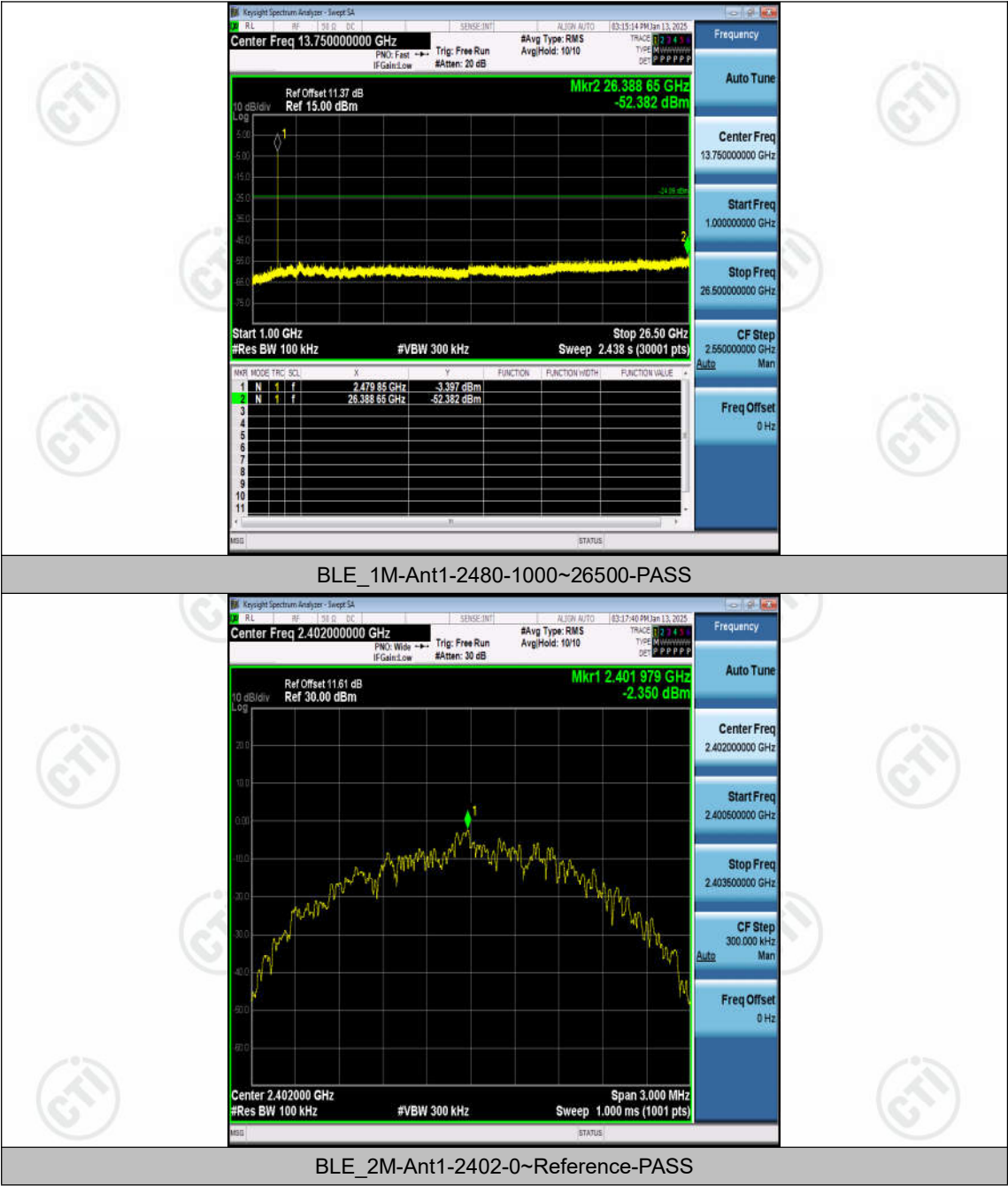
Test Graphs

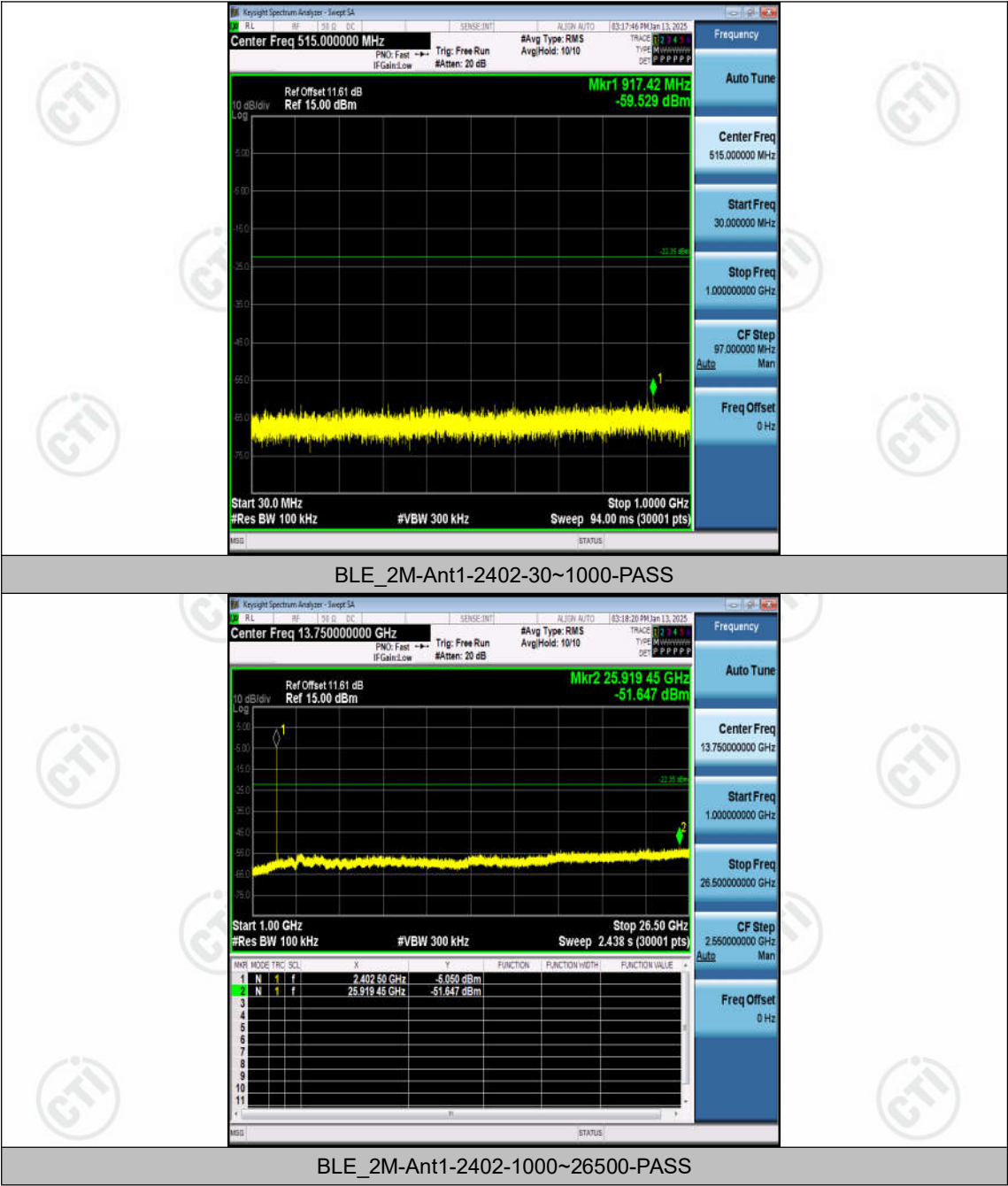


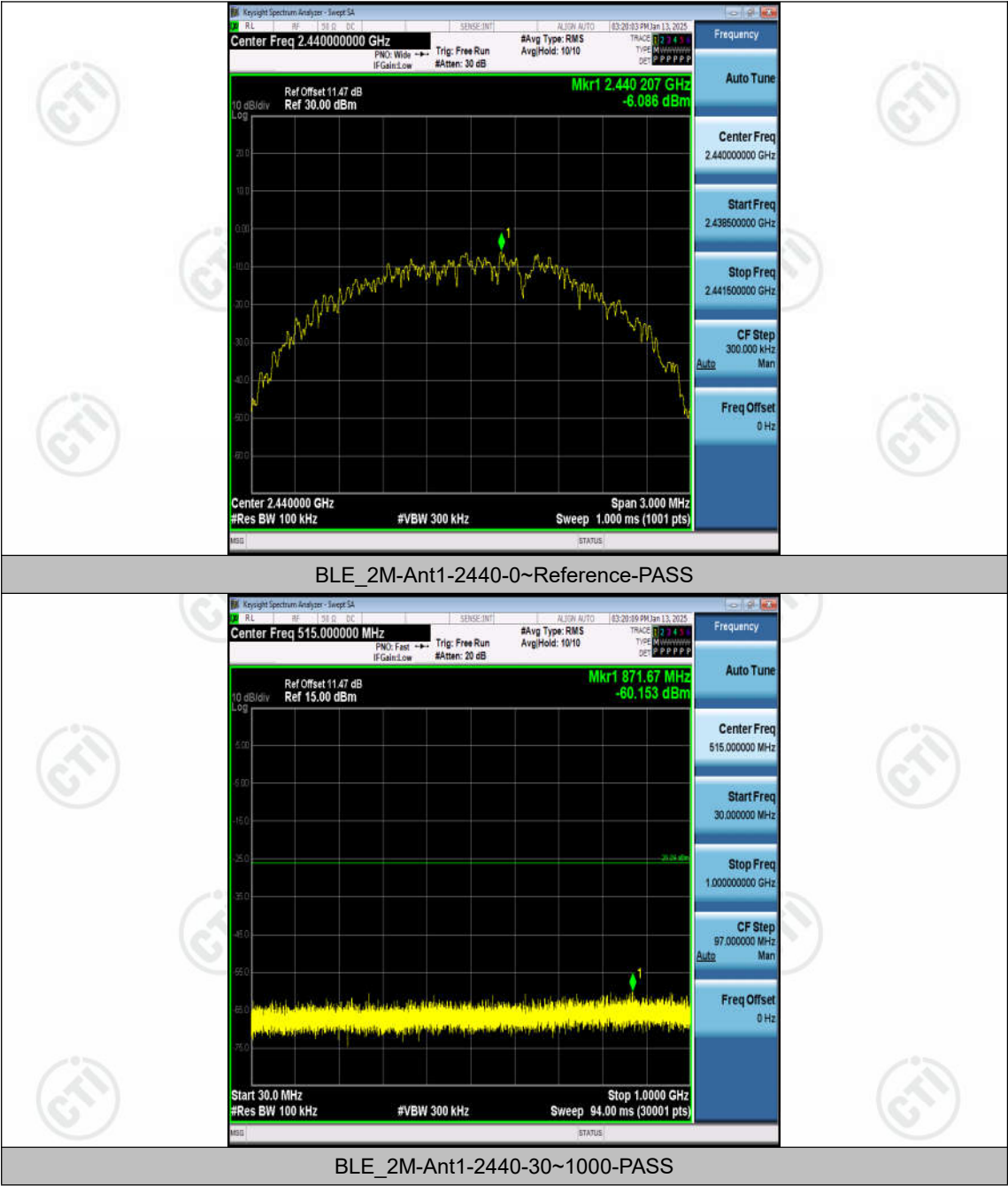


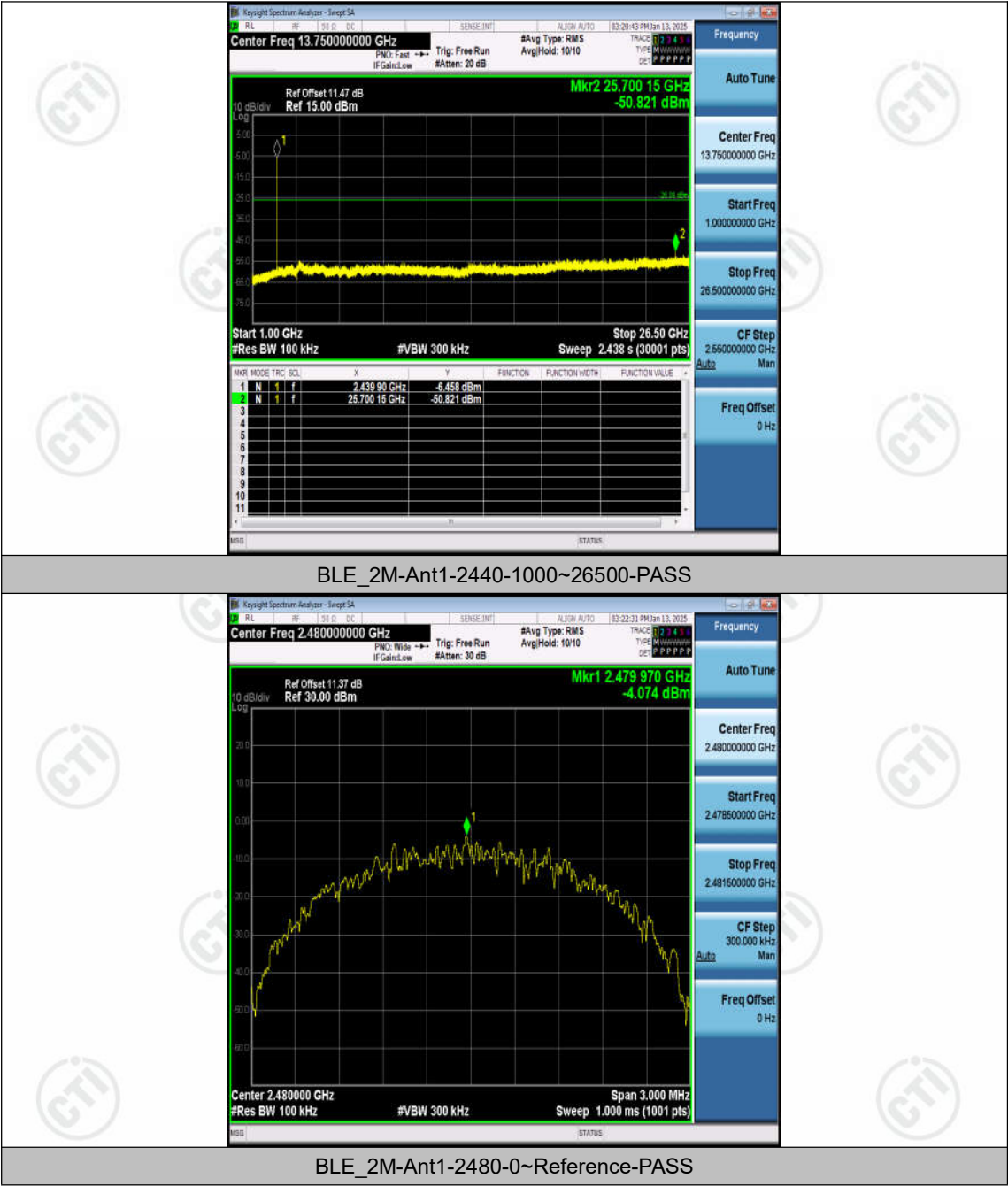


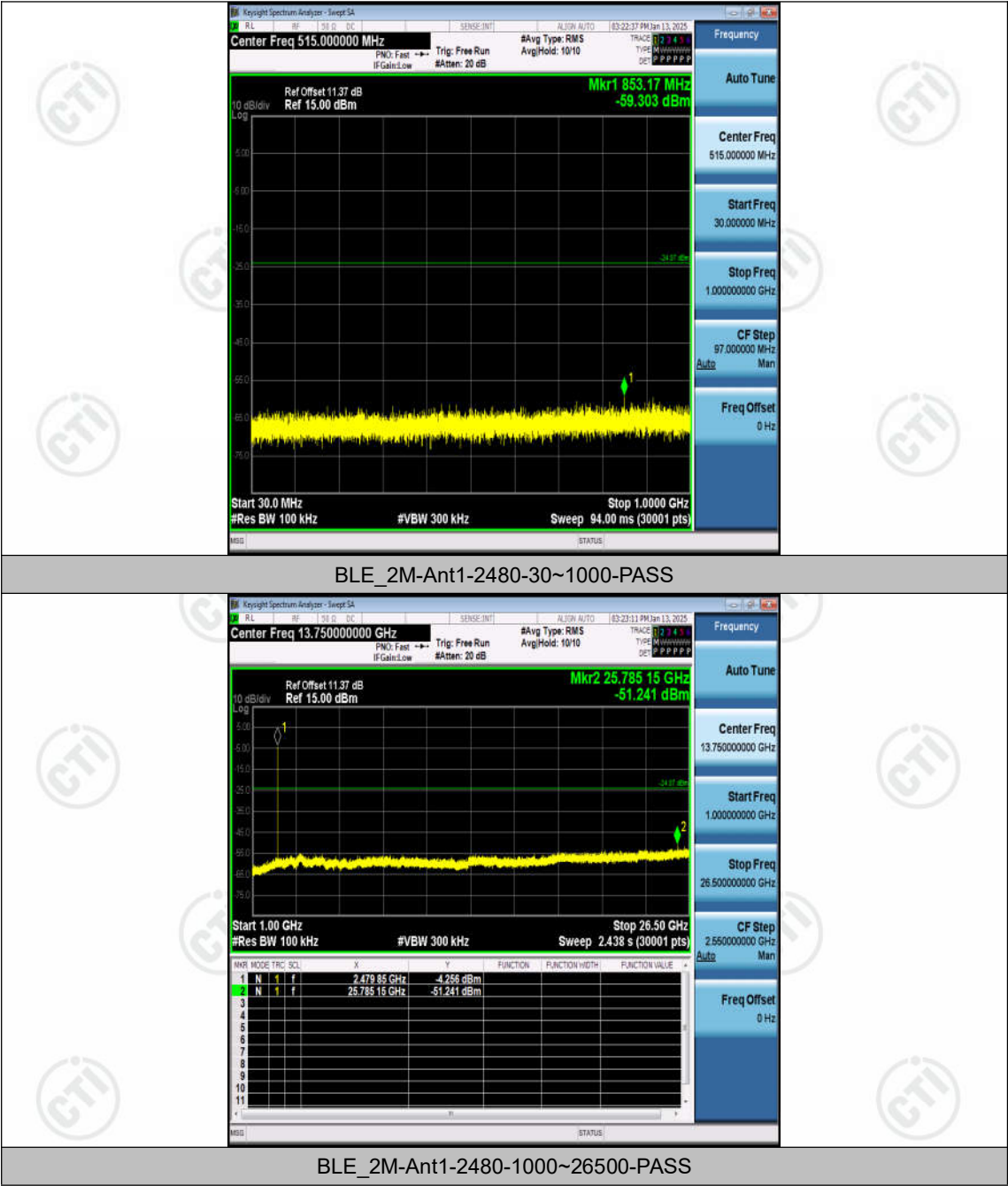










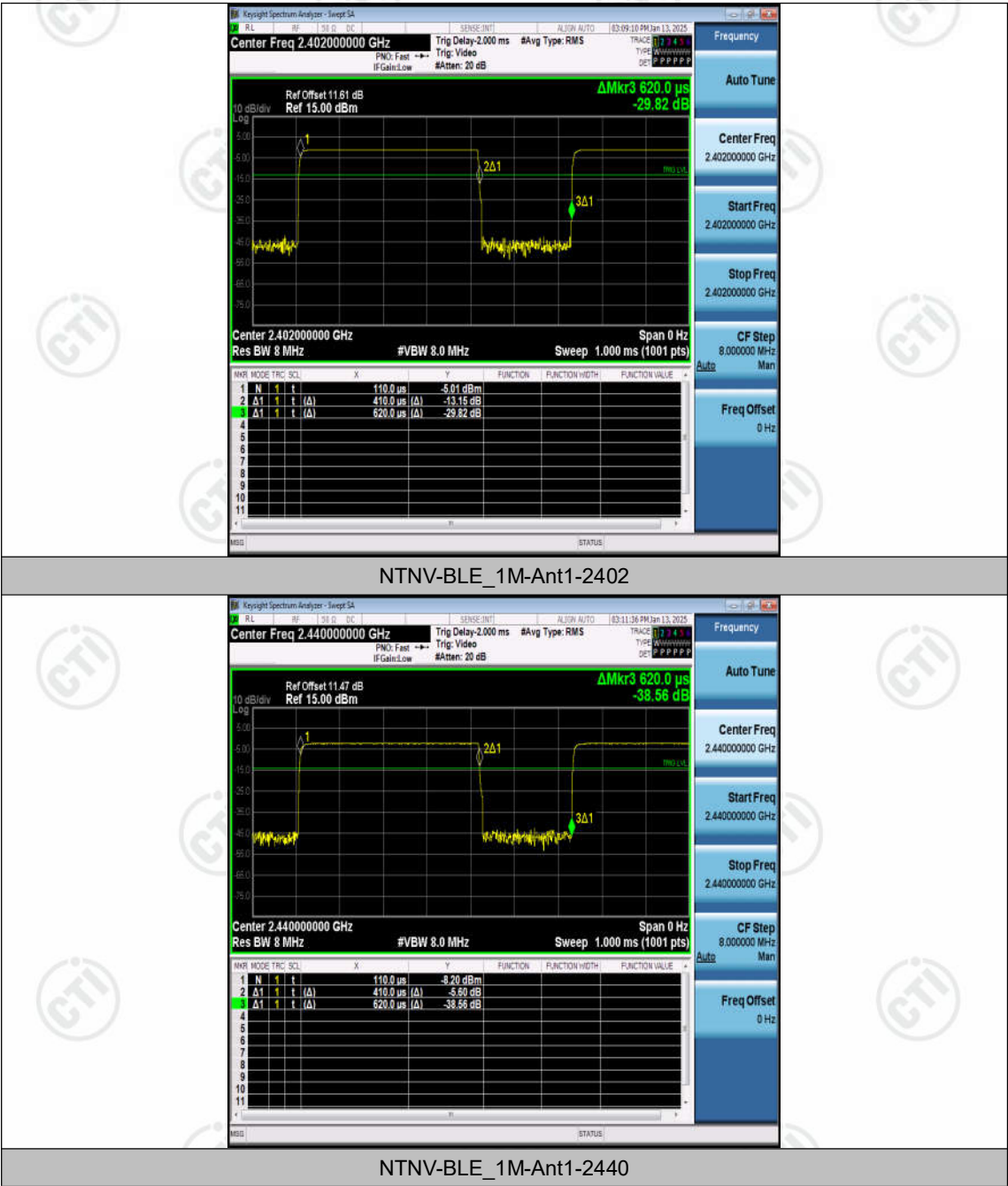


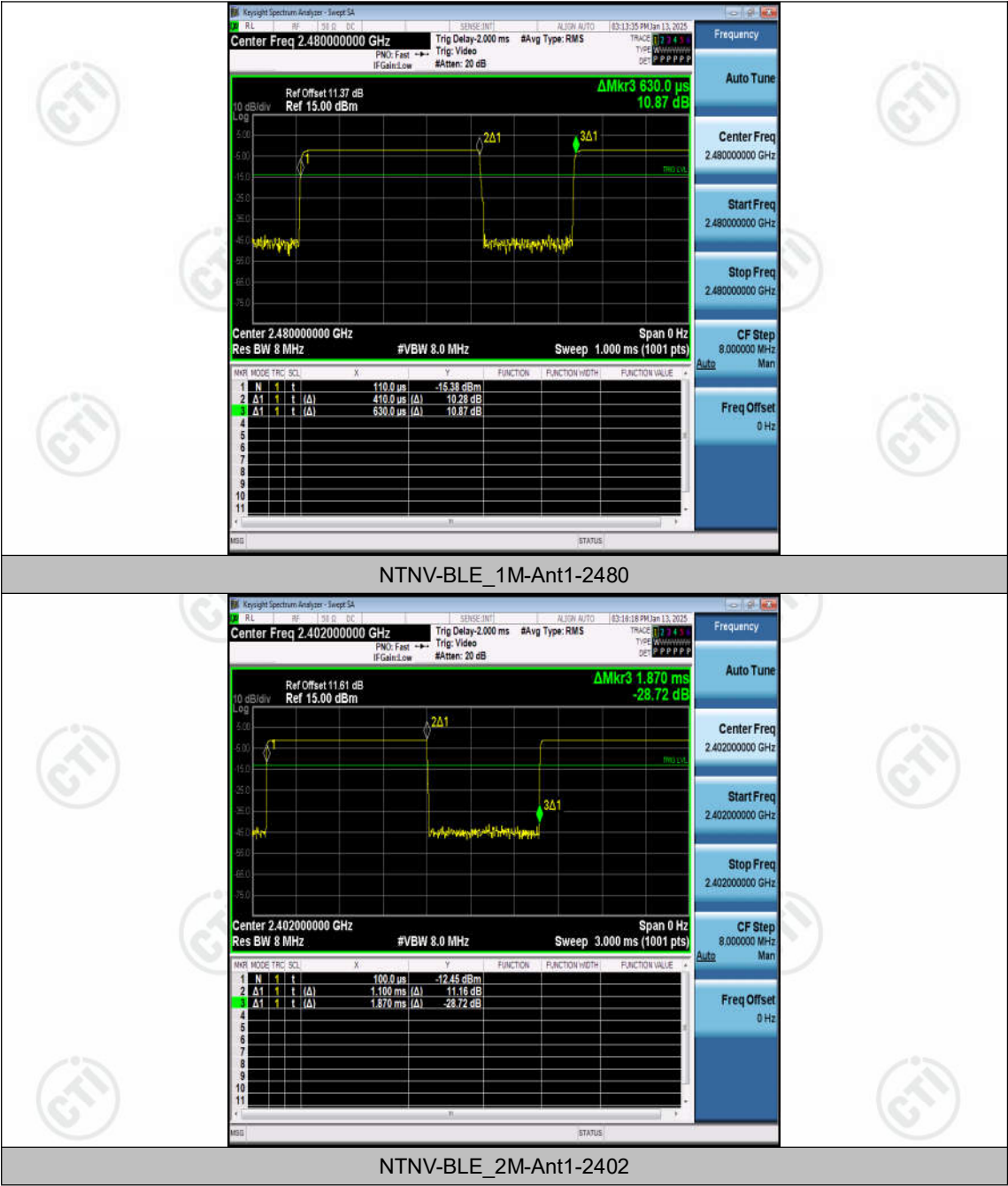
Appendix G: Duty Cycle

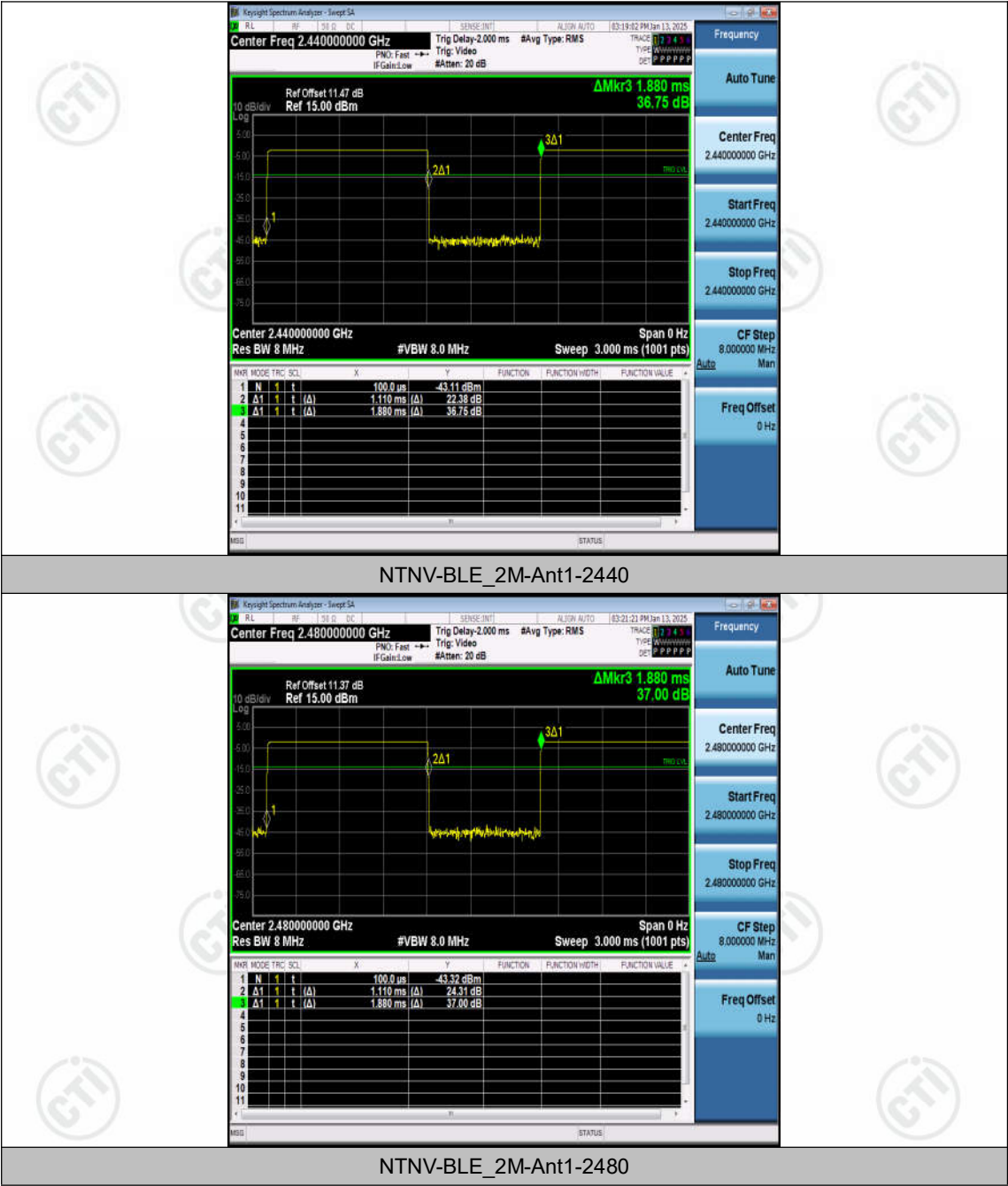
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.62	66.13	1.80
BLE_1M	Ant1	2440	0.41	0.62	66.13	1.80
BLE_1M	Ant1	2480	0.41	0.63	65.08	1.87
BLE_2M	Ant1	2402	1.10	1.87	58.82	2.30
BLE_2M	Ant1	2440	1.11	1.88	59.04	2.29
BLE_2M	Ant1	2480	1.11	1.88	59.04	2.29

Test Graphs







END OF REPORT