

Appendix: Bluetooth LE

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Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.532	2402.248	0.5	PASS
		2440	0.708	2439.552	2440.260	0.5	PASS
		2480	0.744	2479.512	2480.256	0.5	PASS
BLE_2M	Ant1	2402	1.136	2401.316	2402.452	0.5	PASS
		2440	1.120	2439.316	2440.436	0.5	PASS
		2480	1.148	2479.288	2480.436	0.5	PASS

Test Graphs





BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

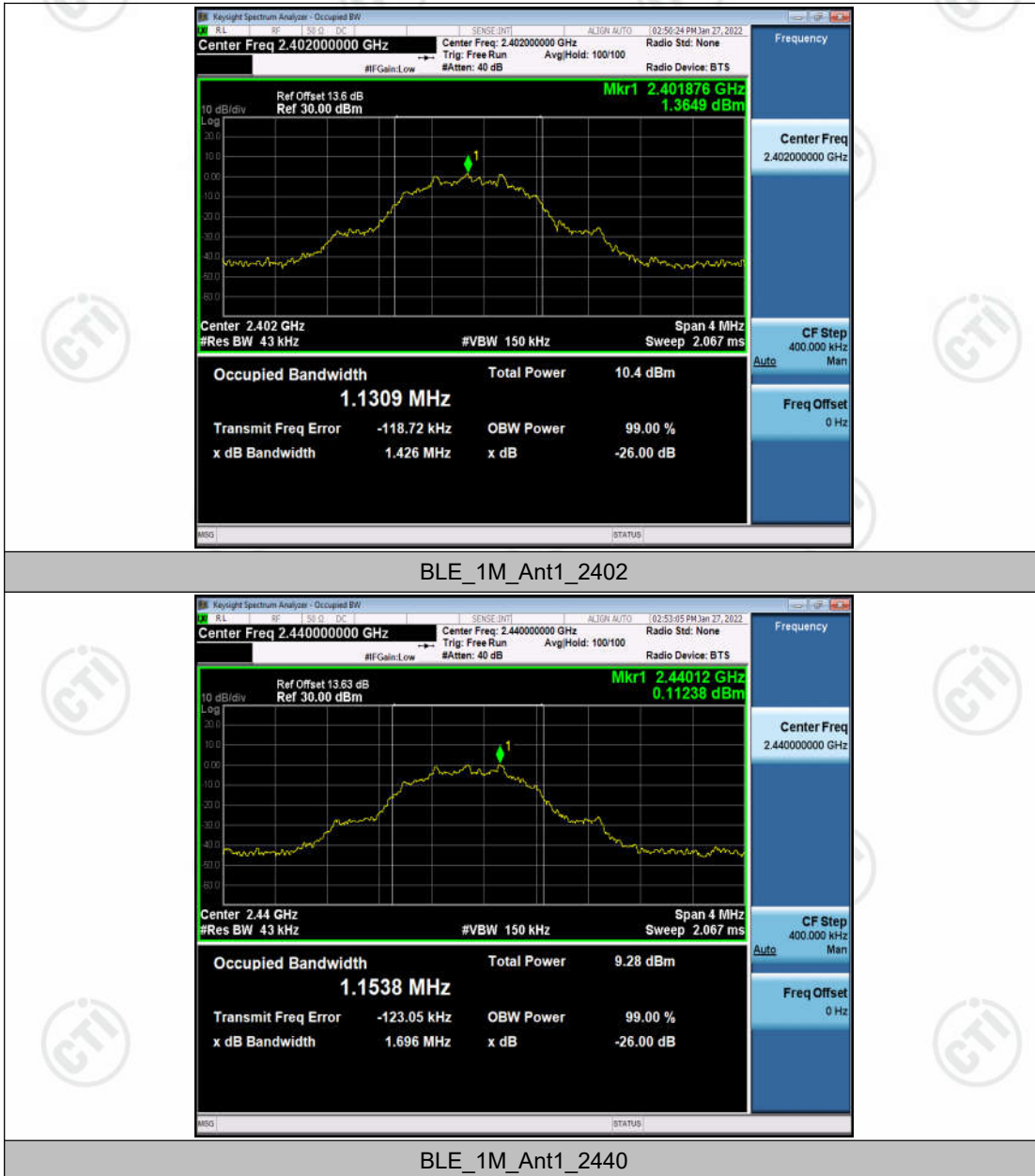


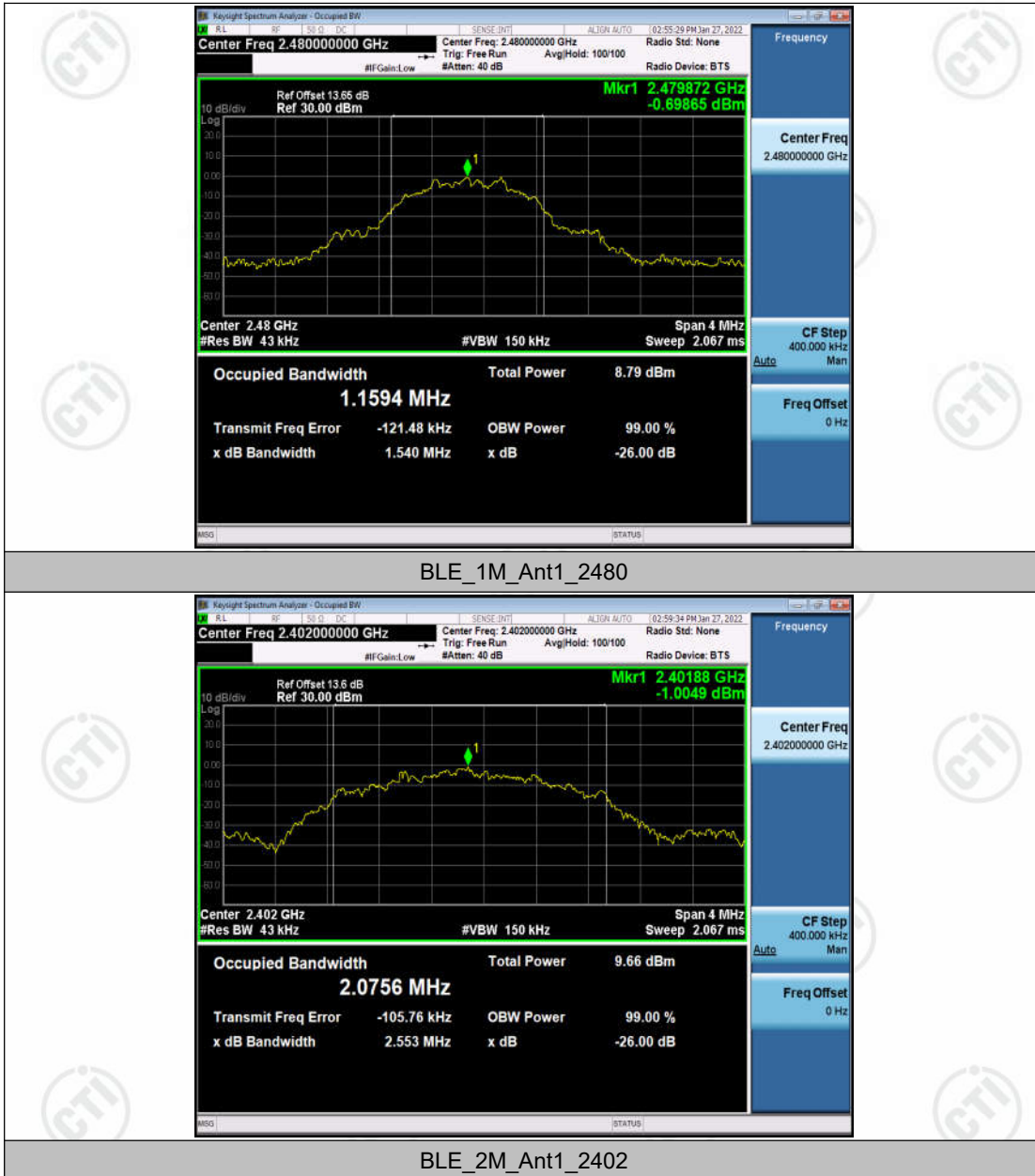
BLE_2M_Ant1_2480

Appendix B: Occupied Channel Bandwidth**Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1309	2401.316	2402.447	---	PASS
		2440	1.1538	2439.300	2440.454	---	PASS
		2480	1.1594	2479.299	2480.458	---	PASS
BLE_2M	Ant1	2402	2.0756	2400.856	2402.932	---	PASS
		2440	2.0741	2438.860	2440.934	---	PASS
		2480	2.0755	2478.852	2480.927	---	PASS

Test Graphs







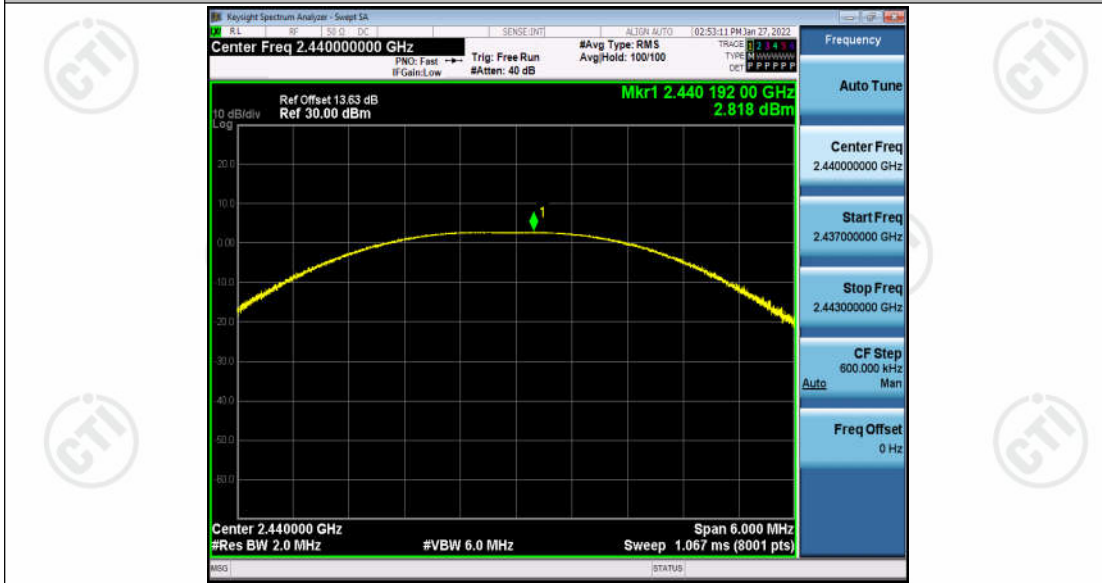
Appendix C: Maximum conducted output power**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.87	<=30	PASS
		2440	2.82	<=30	PASS
		2480	2.2	<=30	PASS
BLE_2M	Ant1	2402	3.77	<=30	PASS
		2440	2.77	<=30	PASS
		2480	2.19	<=30	PASS

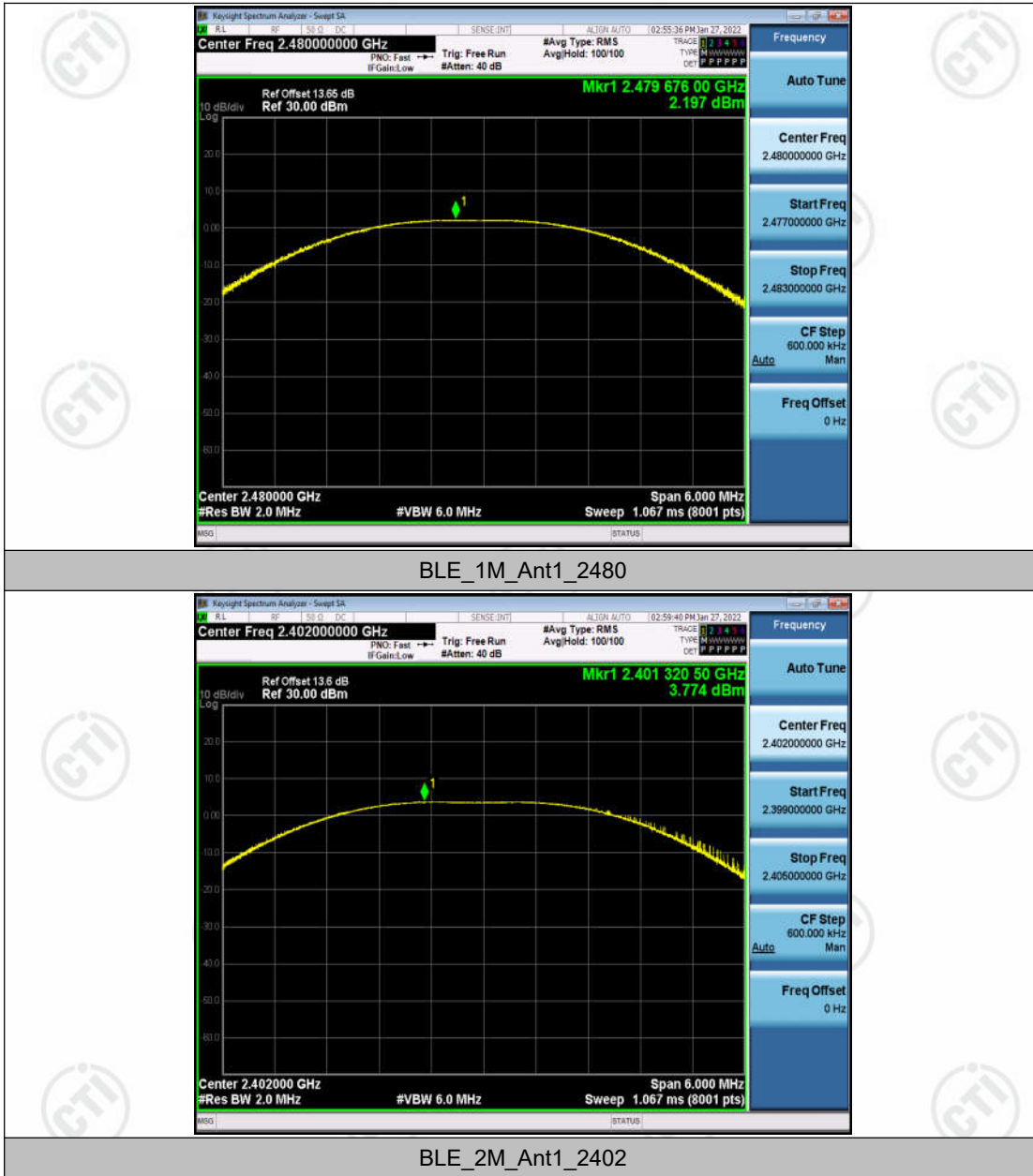
Test Graphs

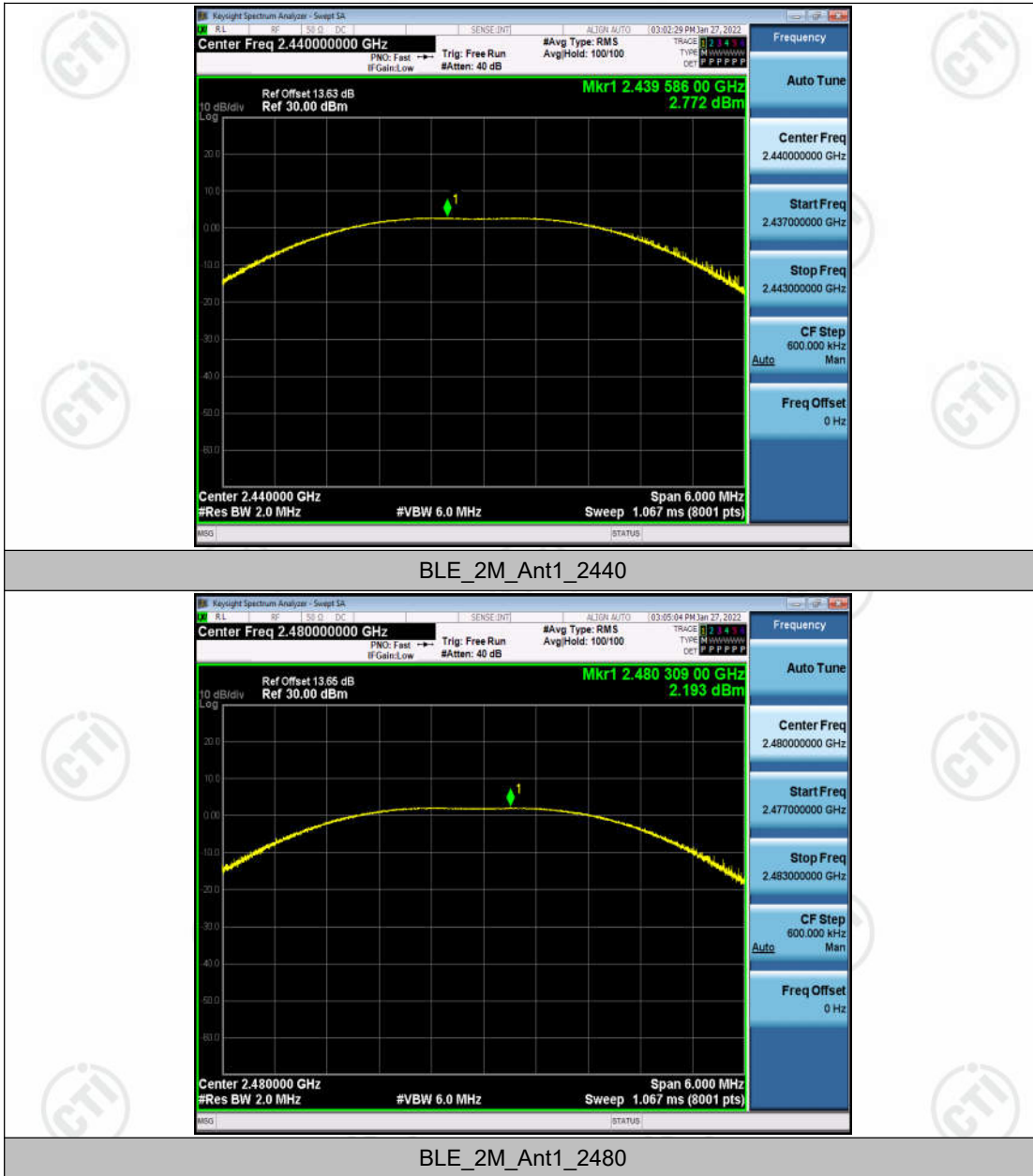


BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

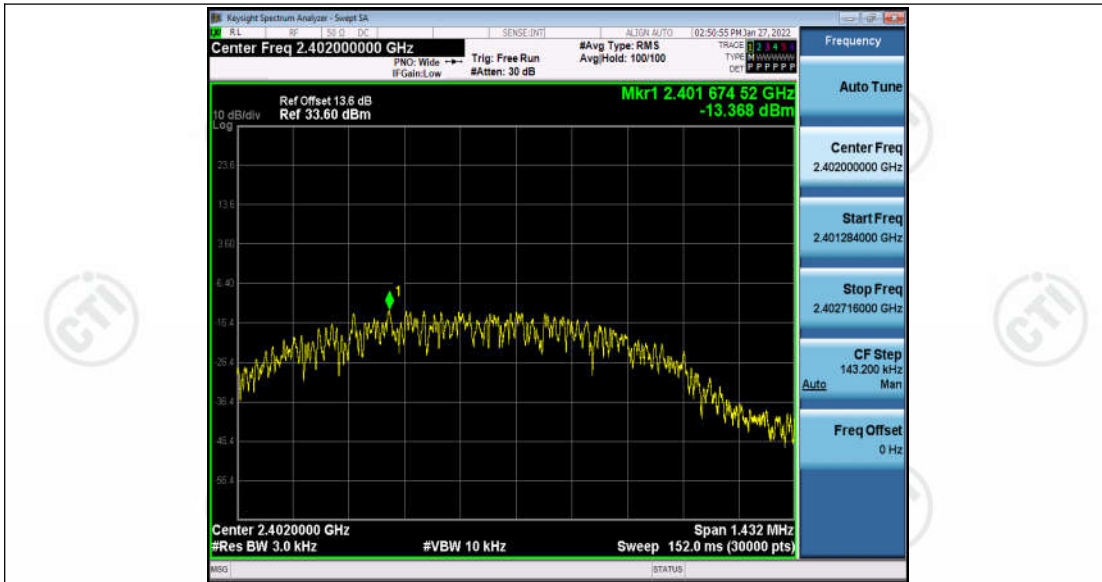




Appendix D: Maximum power spectral density**Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.37	<=8	PASS
		2440	-14.22	<=8	PASS
		2480	-14.96	<=8	PASS
BLE_2M	Ant1	2402	-15.69	<=8	PASS
		2440	-16.39	<=8	PASS
		2480	-16.81	<=8	PASS

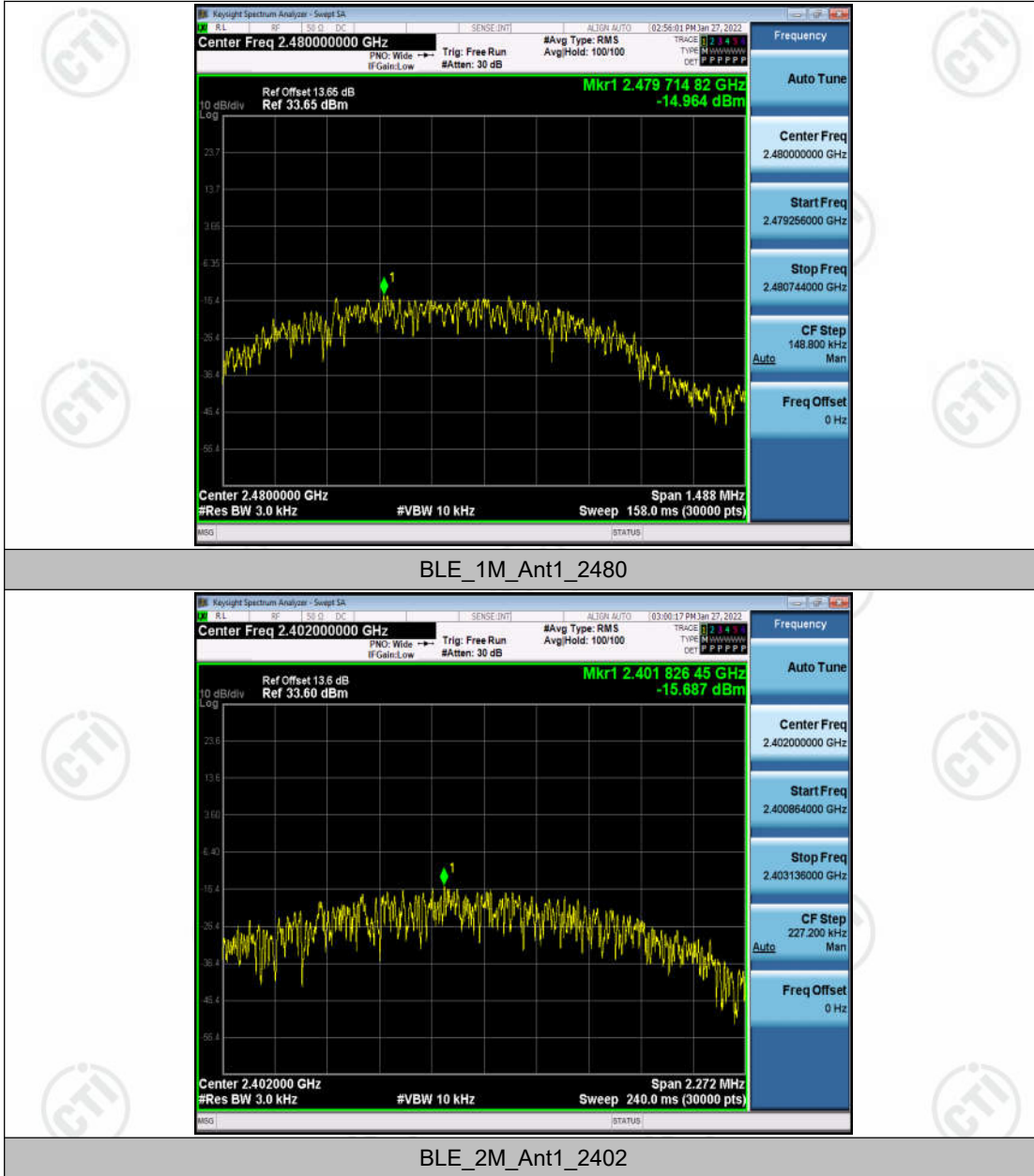
Test Graphs

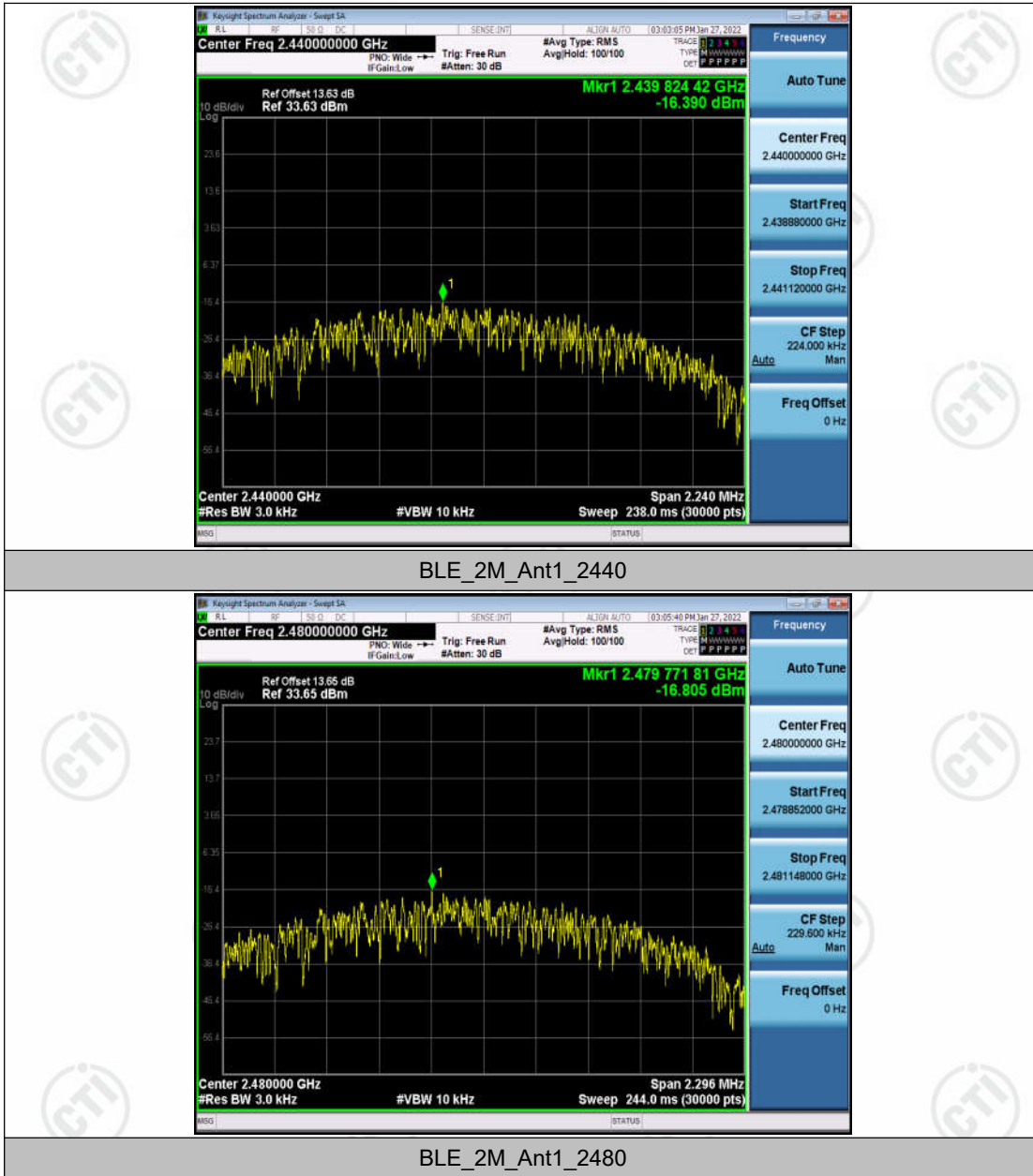


BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

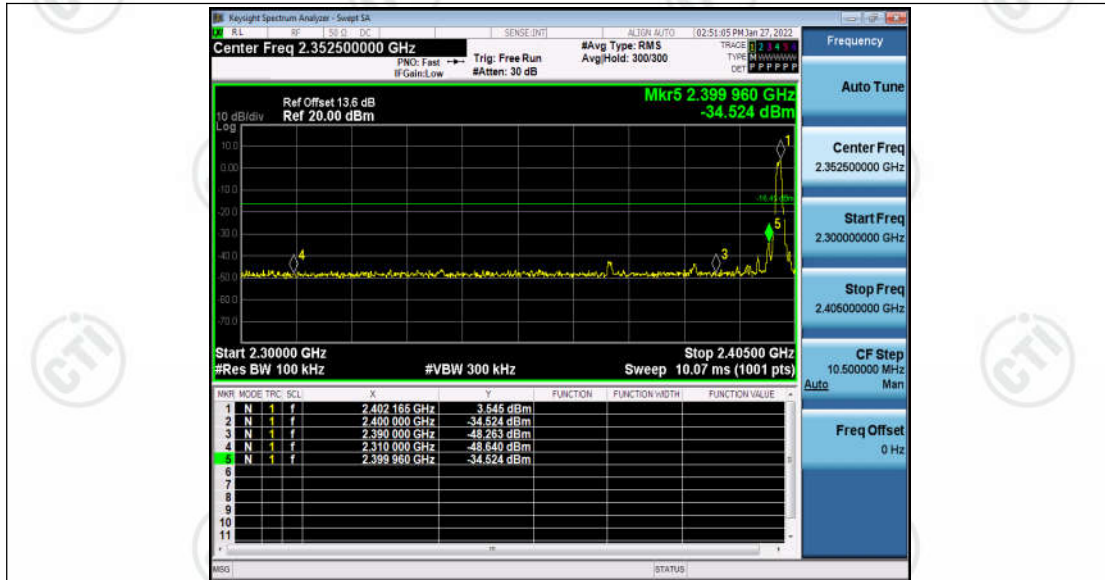




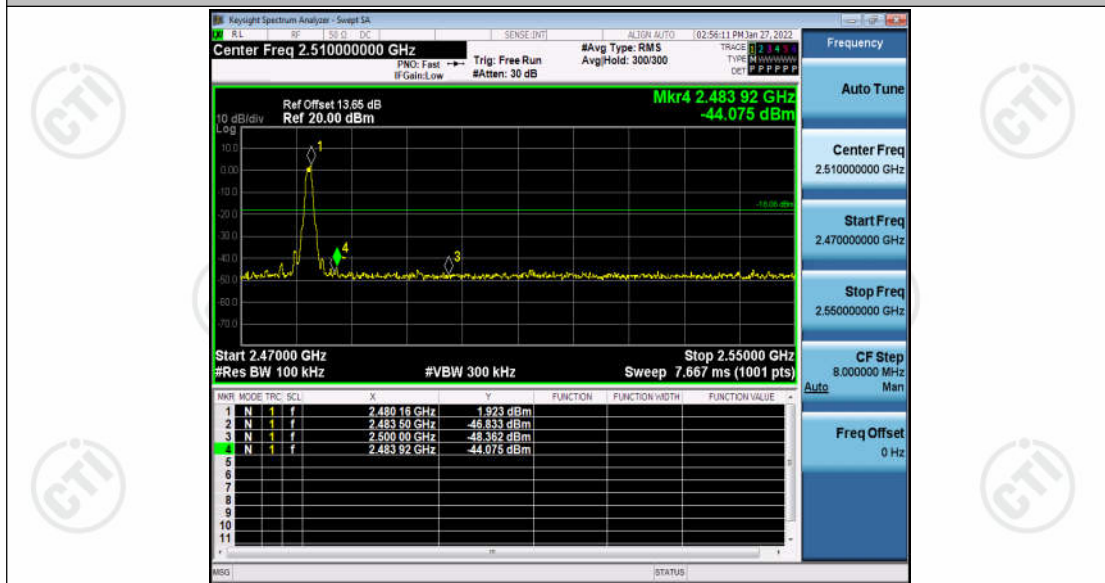
Appendix E: Band edge measurements**Test Result**

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.55	-34.52	<=-16.45	PASS
		High	2480	1.92	-44.08	<=-18.08	PASS
BLE_2M	Ant1	Low	2402	2.93	-29.07	<=-17.07	PASS
		High	2480	0.75	-42.84	<=-19.25	PASS

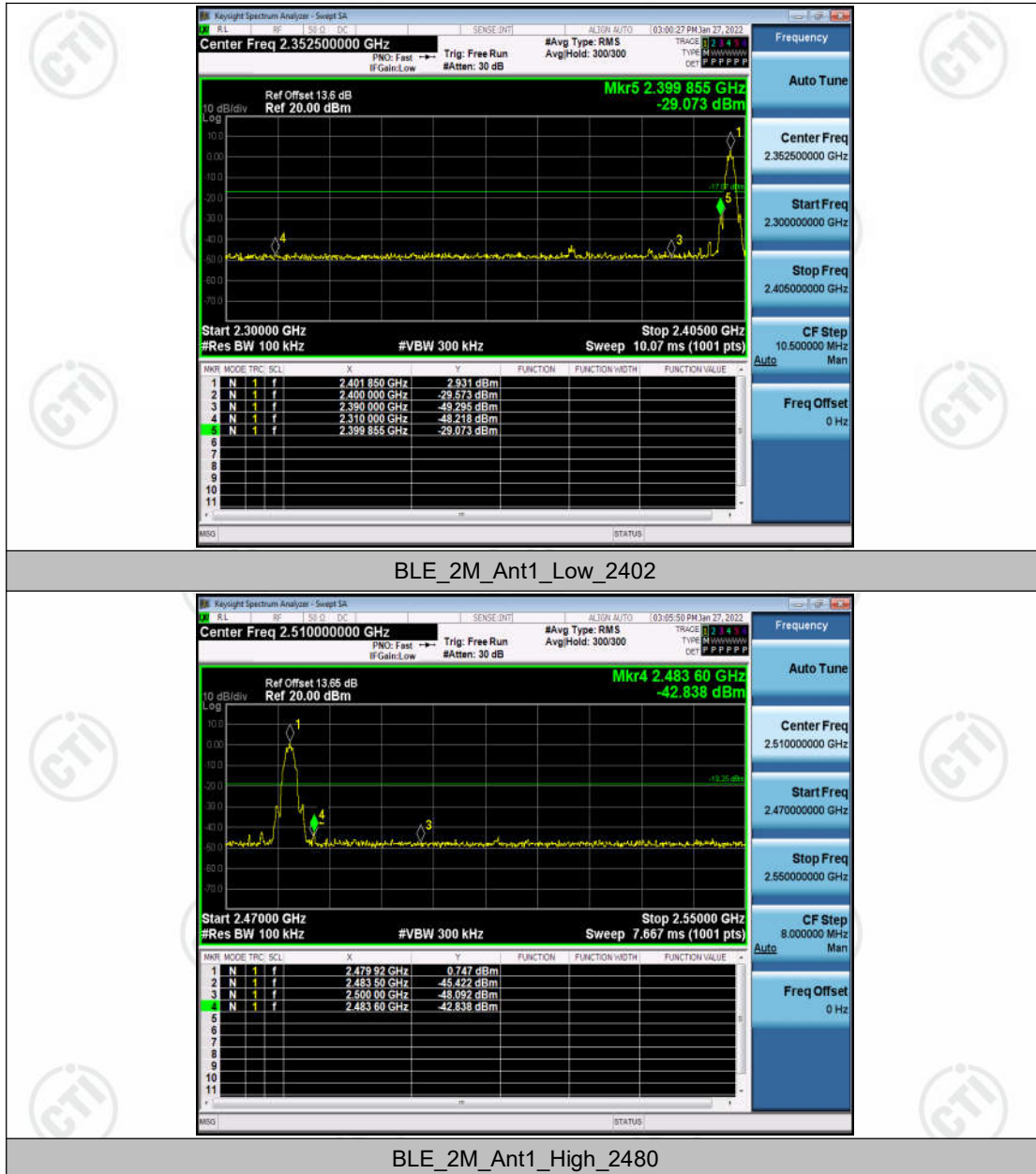
Test Graphs



BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

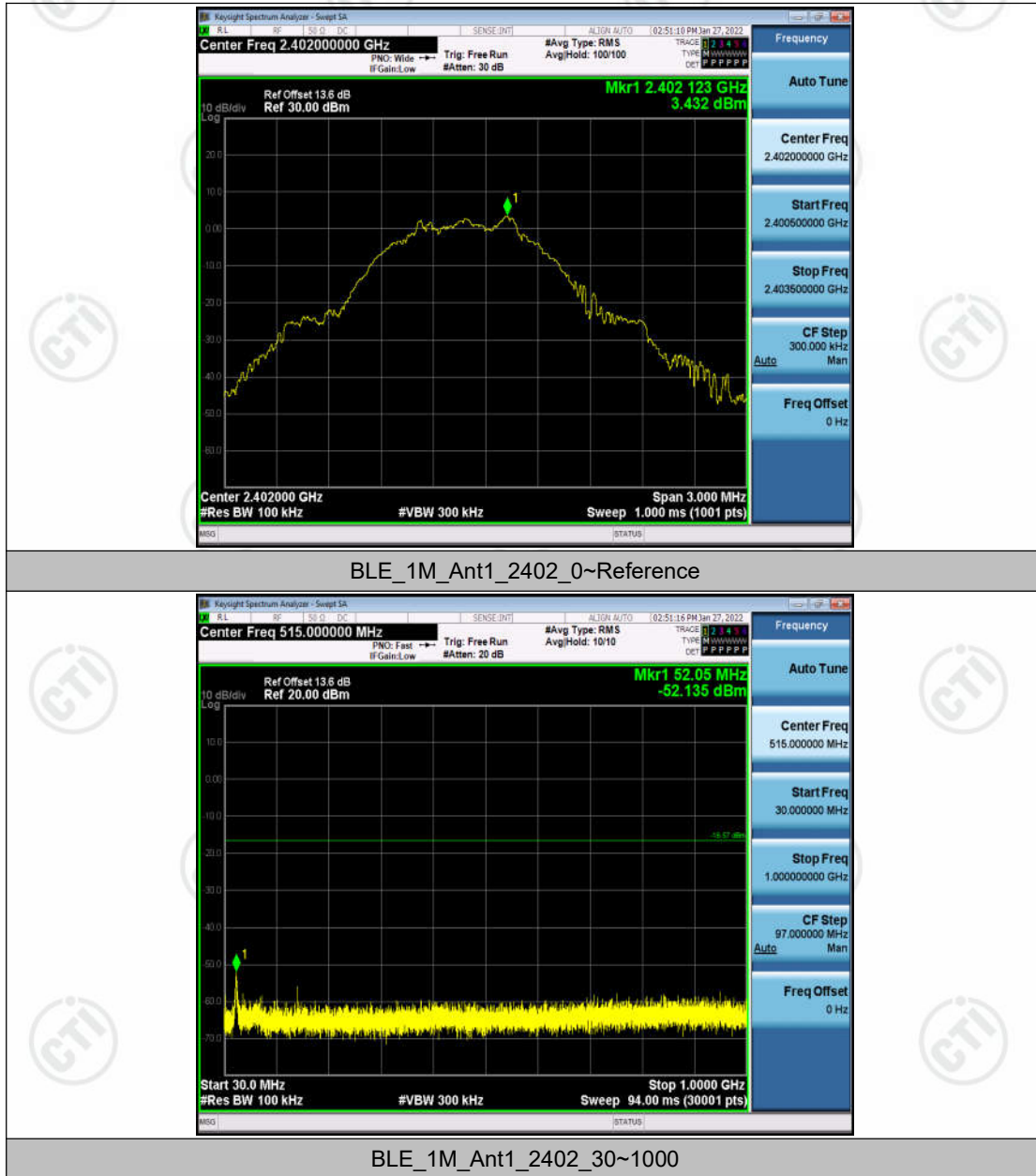


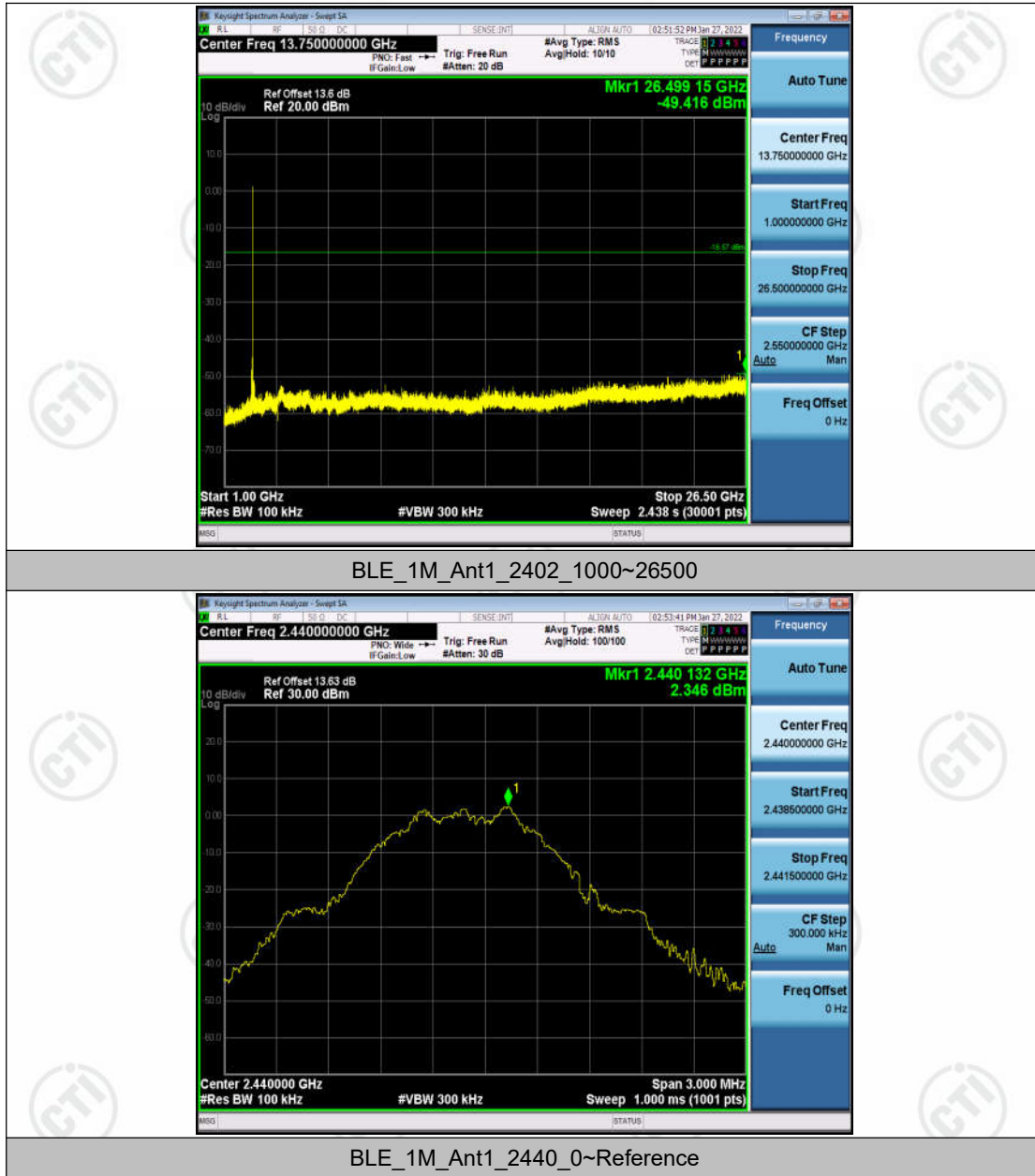
Appendix F: Conducted Spurious Emission

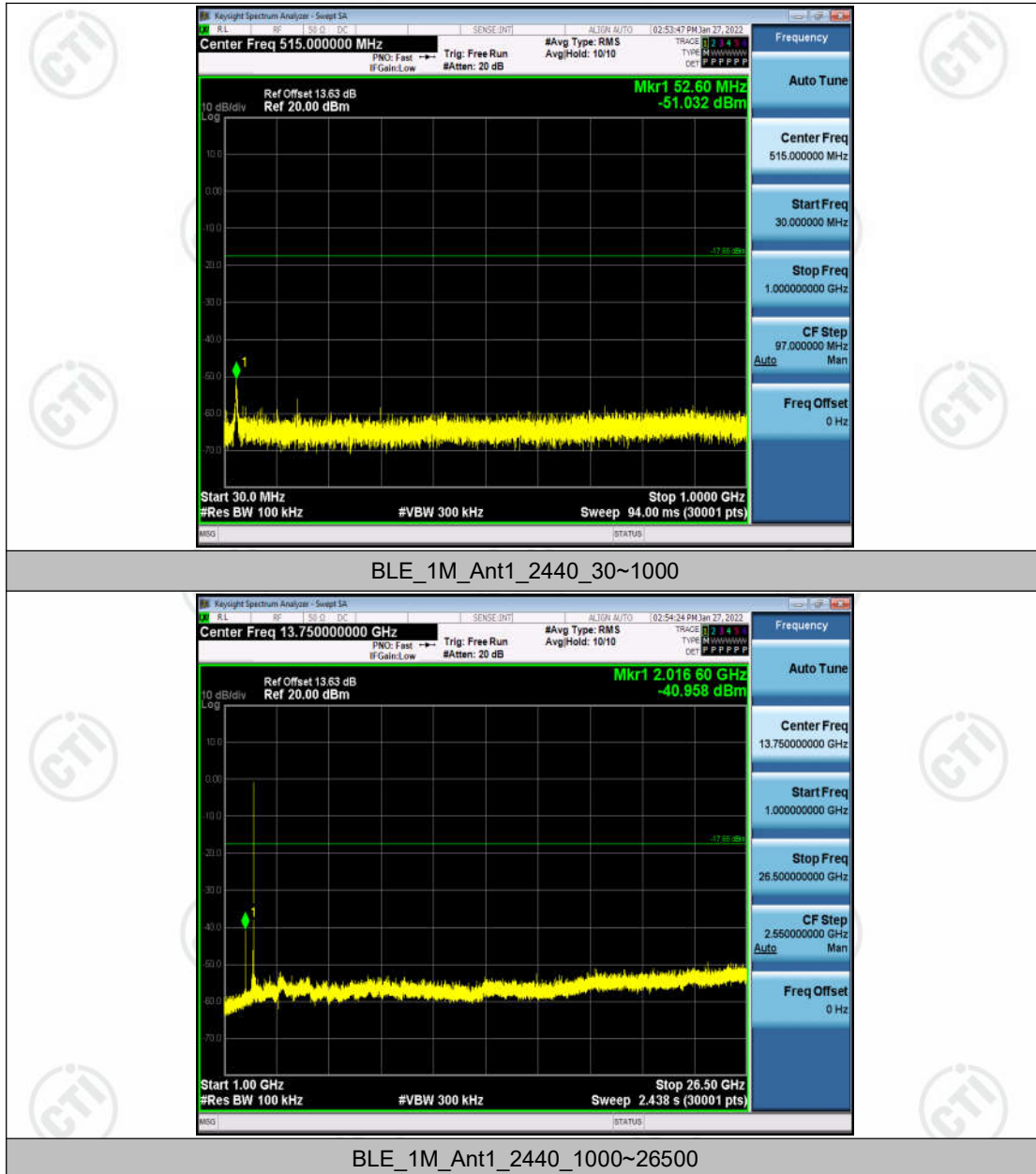
Test Result

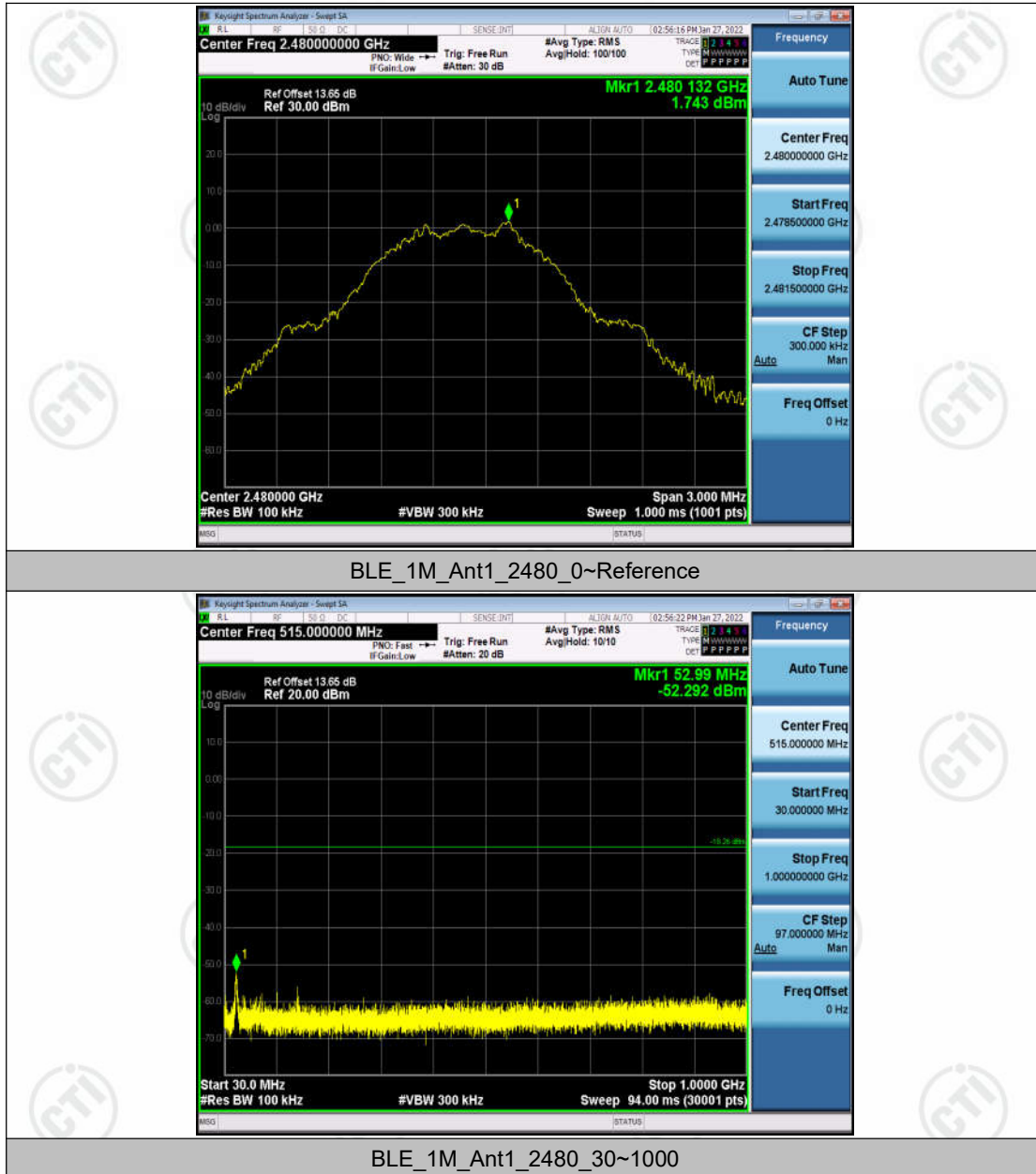
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.43	3.43	---	PASS
			30~1000	30~1000	-52.135	<=-16.568	PASS
			1000~26500	1000~26500	-49.416	<=-16.568	PASS
		2440	Reference	2.35	2.35	---	PASS
			30~1000	30~1000	-51.032	<=-17.654	PASS
			1000~26500	1000~26500	-40.958	<=-17.654	PASS
		2480	Reference	1.74	1.74	---	PASS
			30~1000	30~1000	-52.292	<=-18.257	PASS
			1000~26500	1000~26500	-49.072	<=-18.257	PASS
BLE_2M	Ant1	2402	Reference	2.73	2.73	---	PASS
			30~1000	30~1000	-51.641	<=-17.275	PASS
			1000~26500	1000~26500	-49.728	<=-17.275	PASS
		2440	Reference	1.65	1.65	---	PASS
			30~1000	30~1000	-52.362	<=-18.346	PASS
			1000~26500	1000~26500	-49.485	<=-18.346	PASS
		2480	Reference	1.05	1.05	---	PASS
			30~1000	30~1000	-50.884	<=-18.95	PASS
			1000~26500	1000~26500	-45.29	<=-18.95	PASS

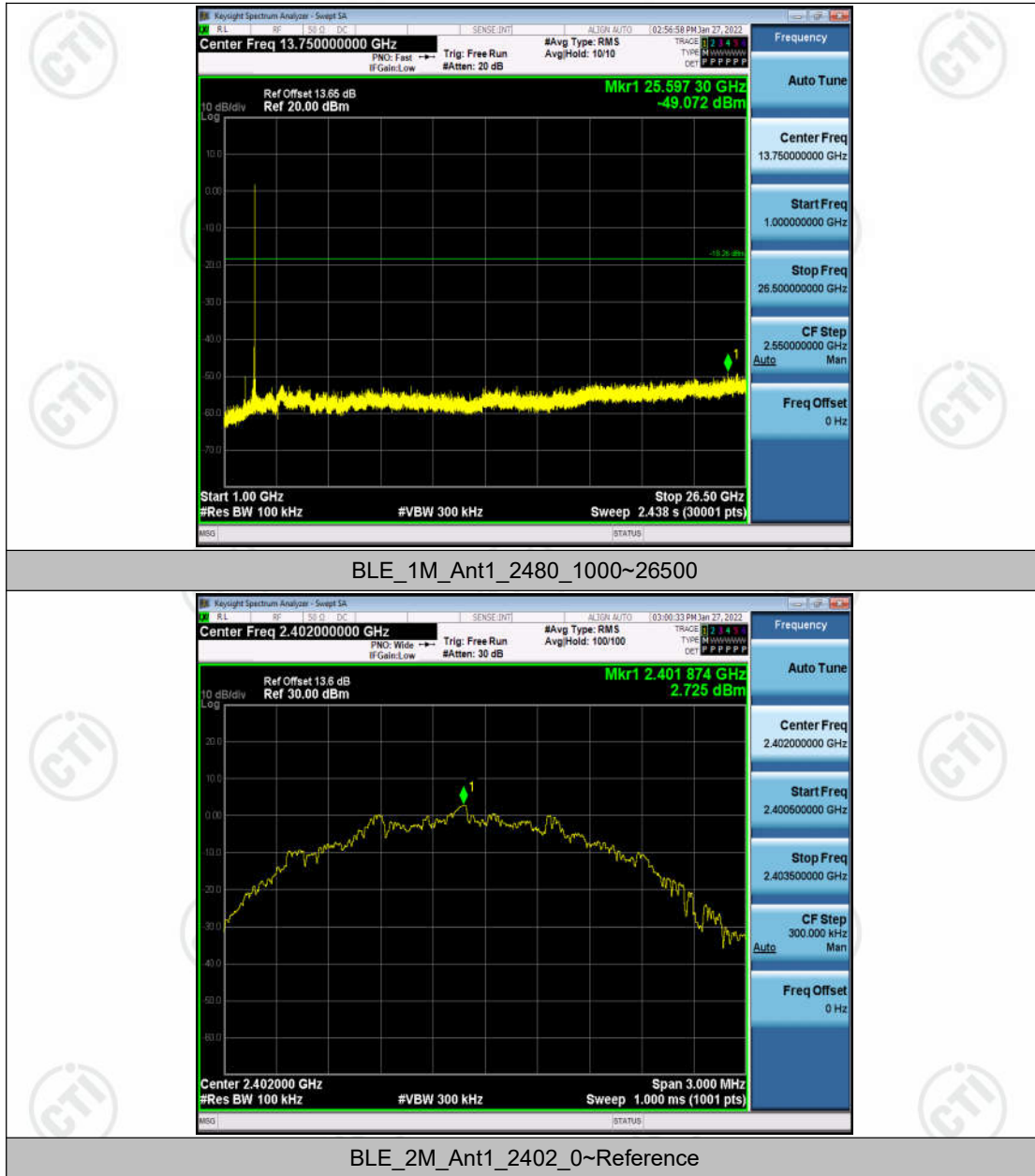
Test Graphs

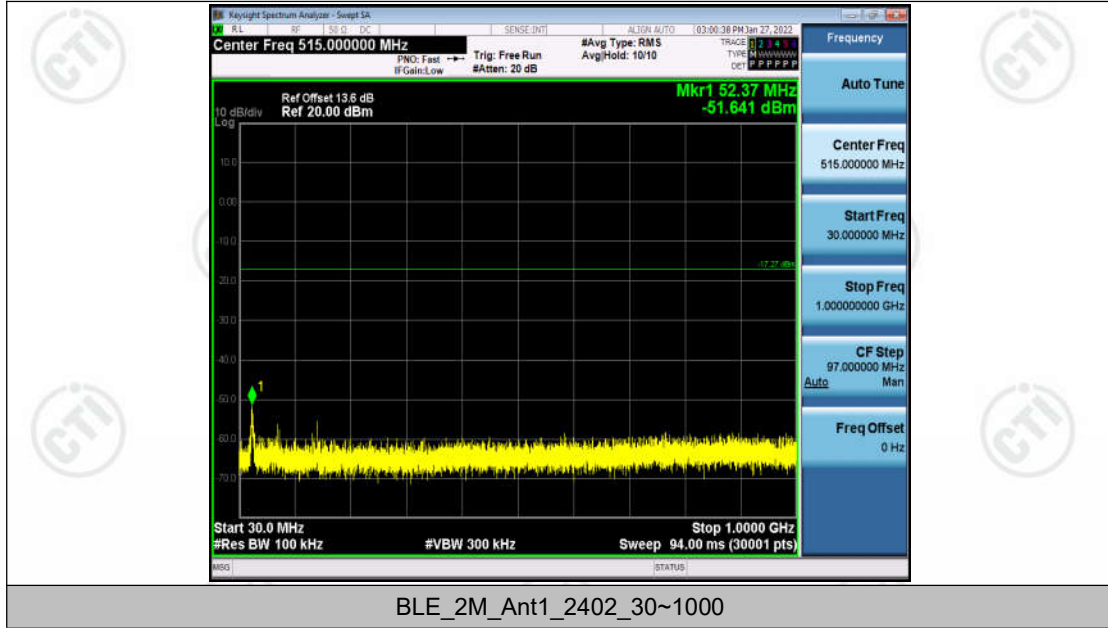


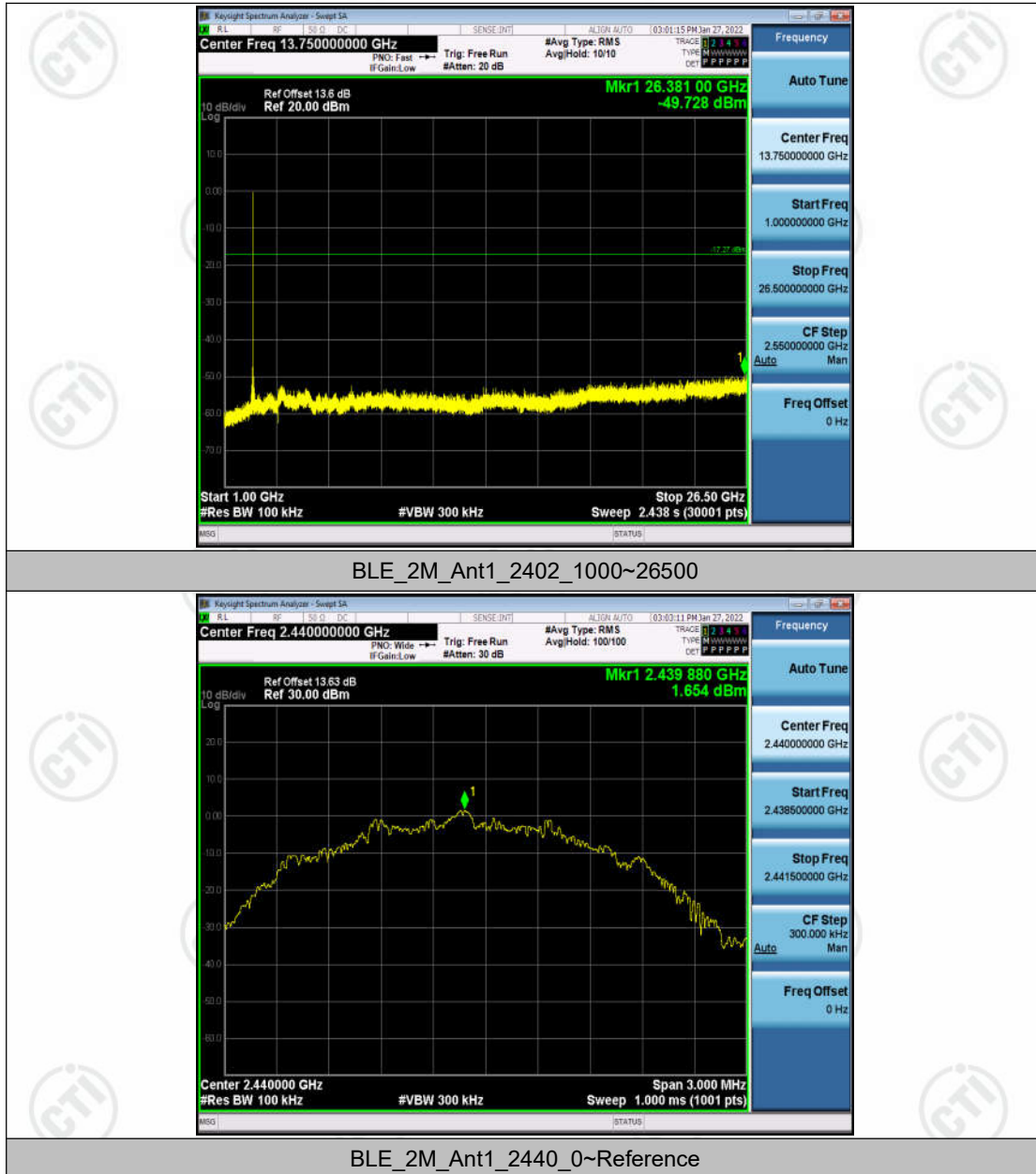


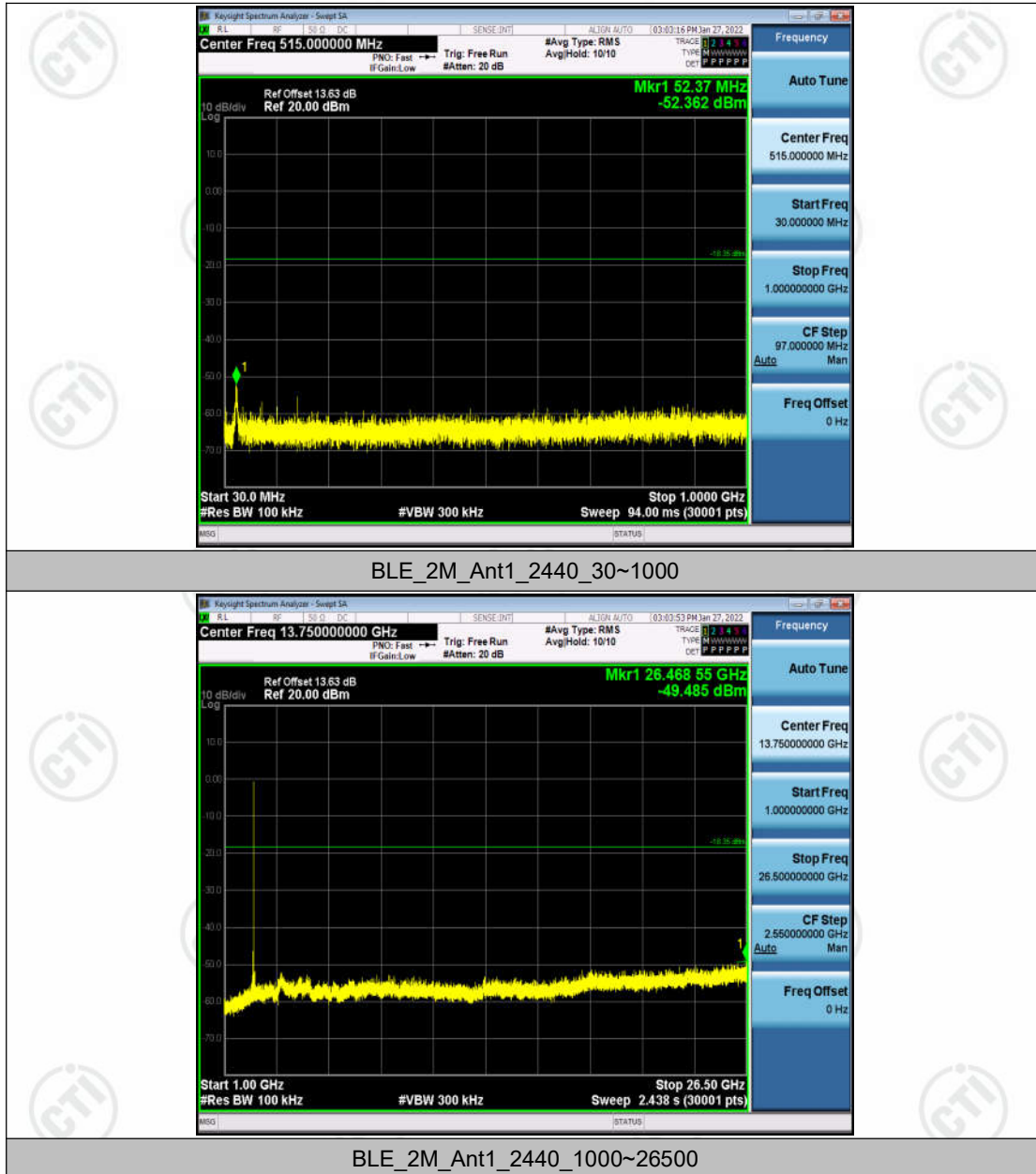


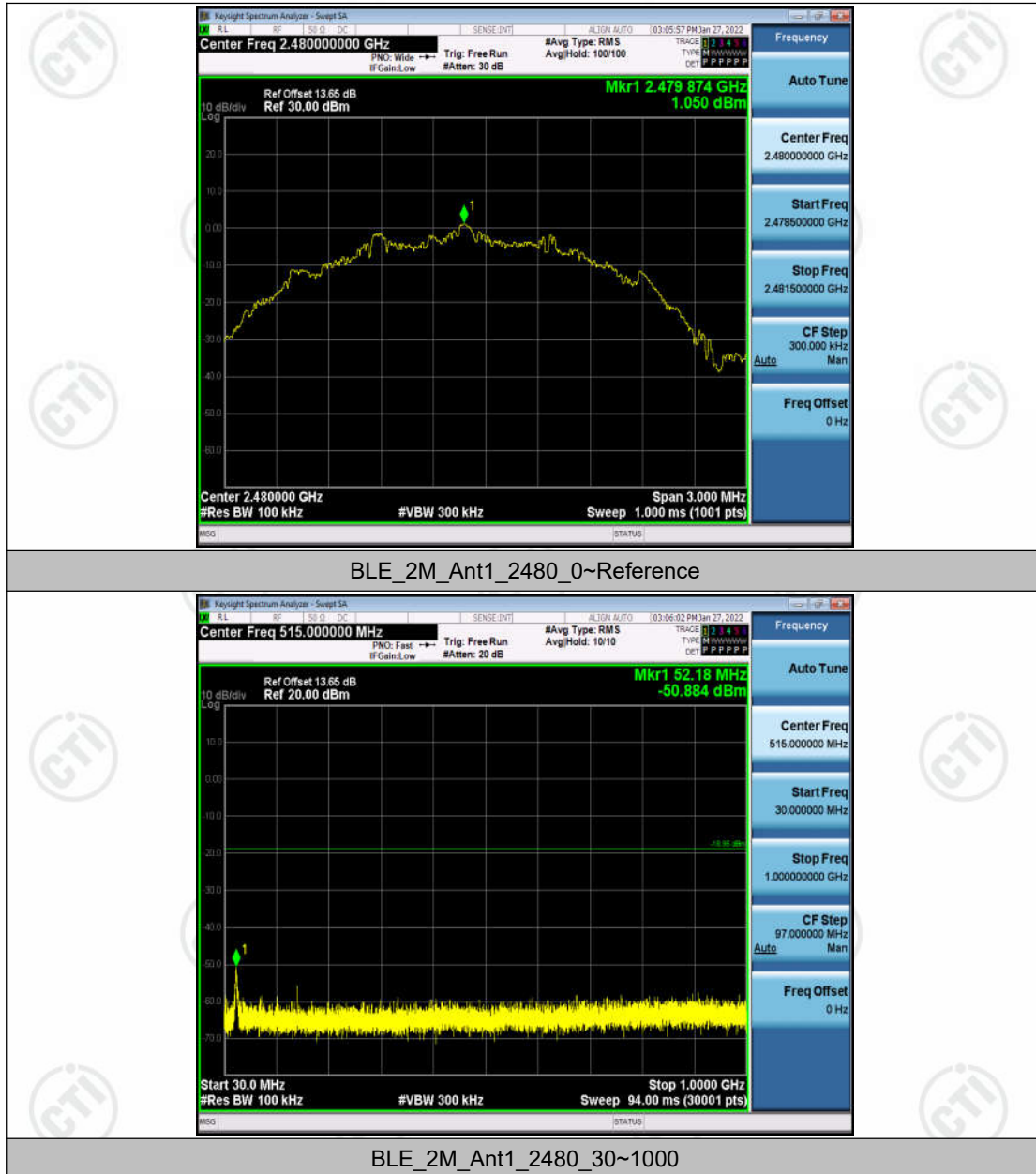


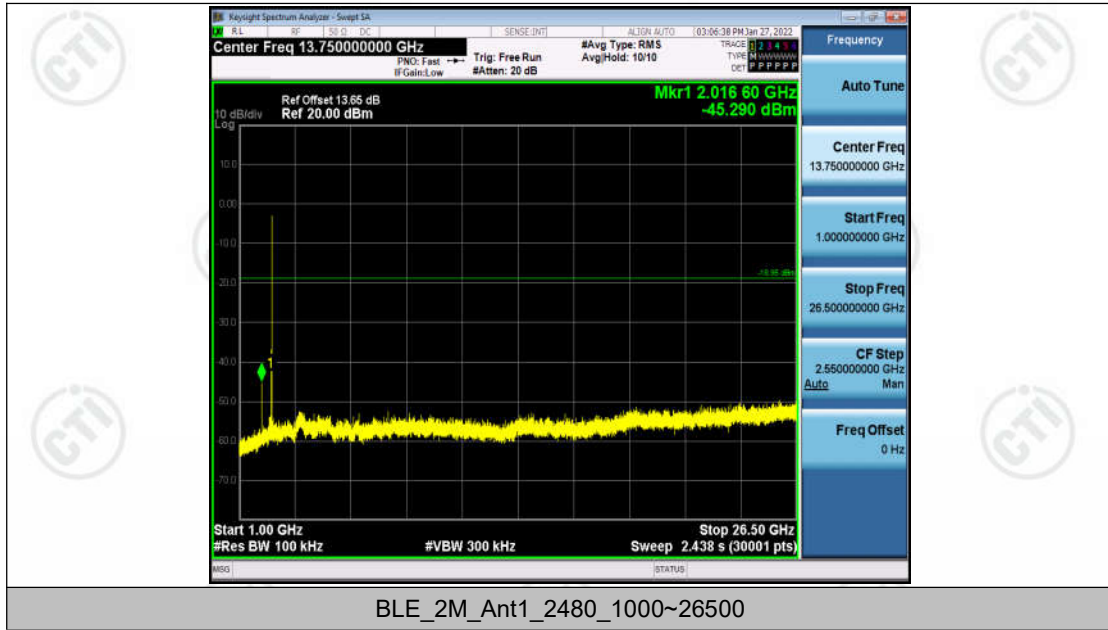








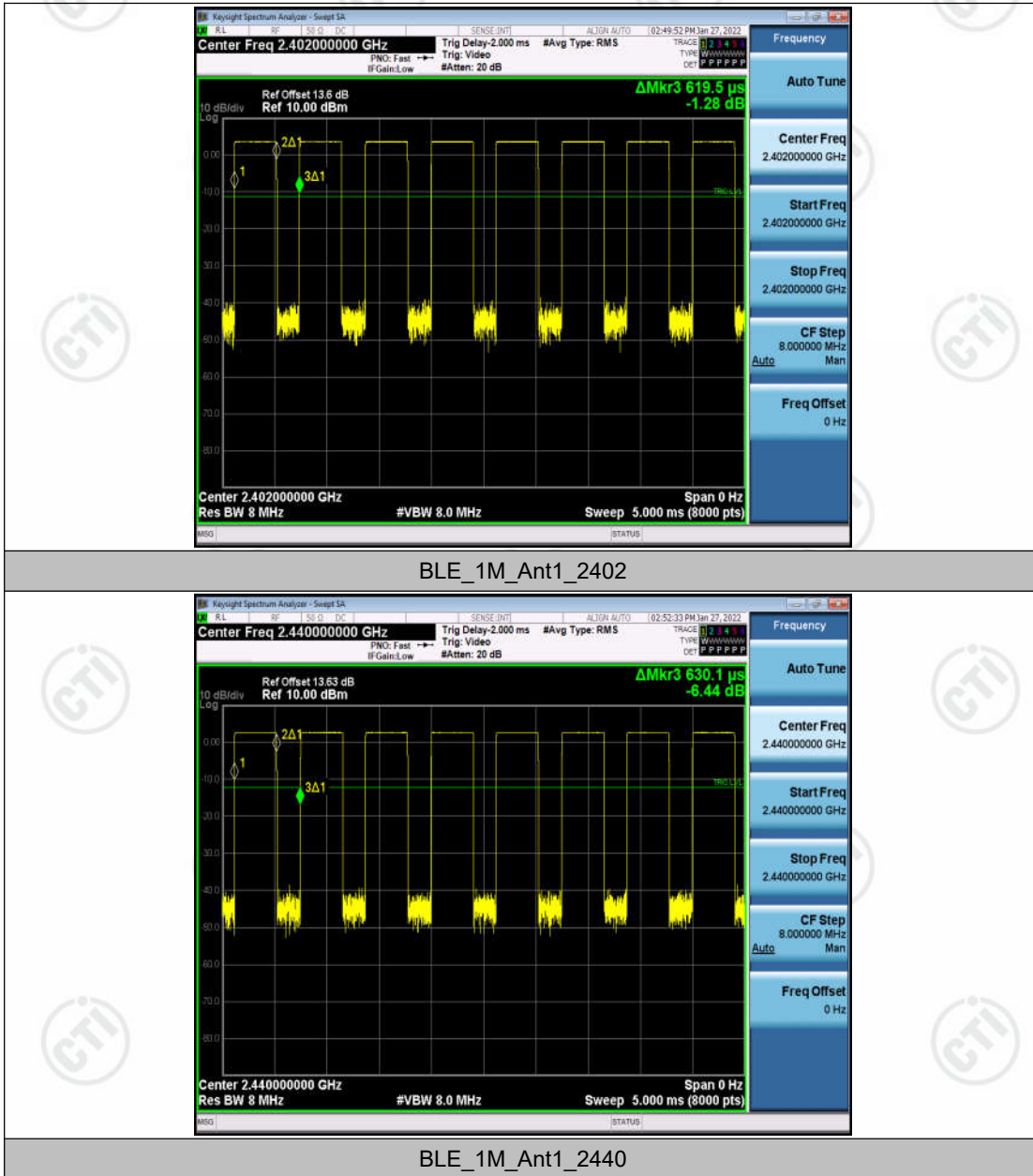


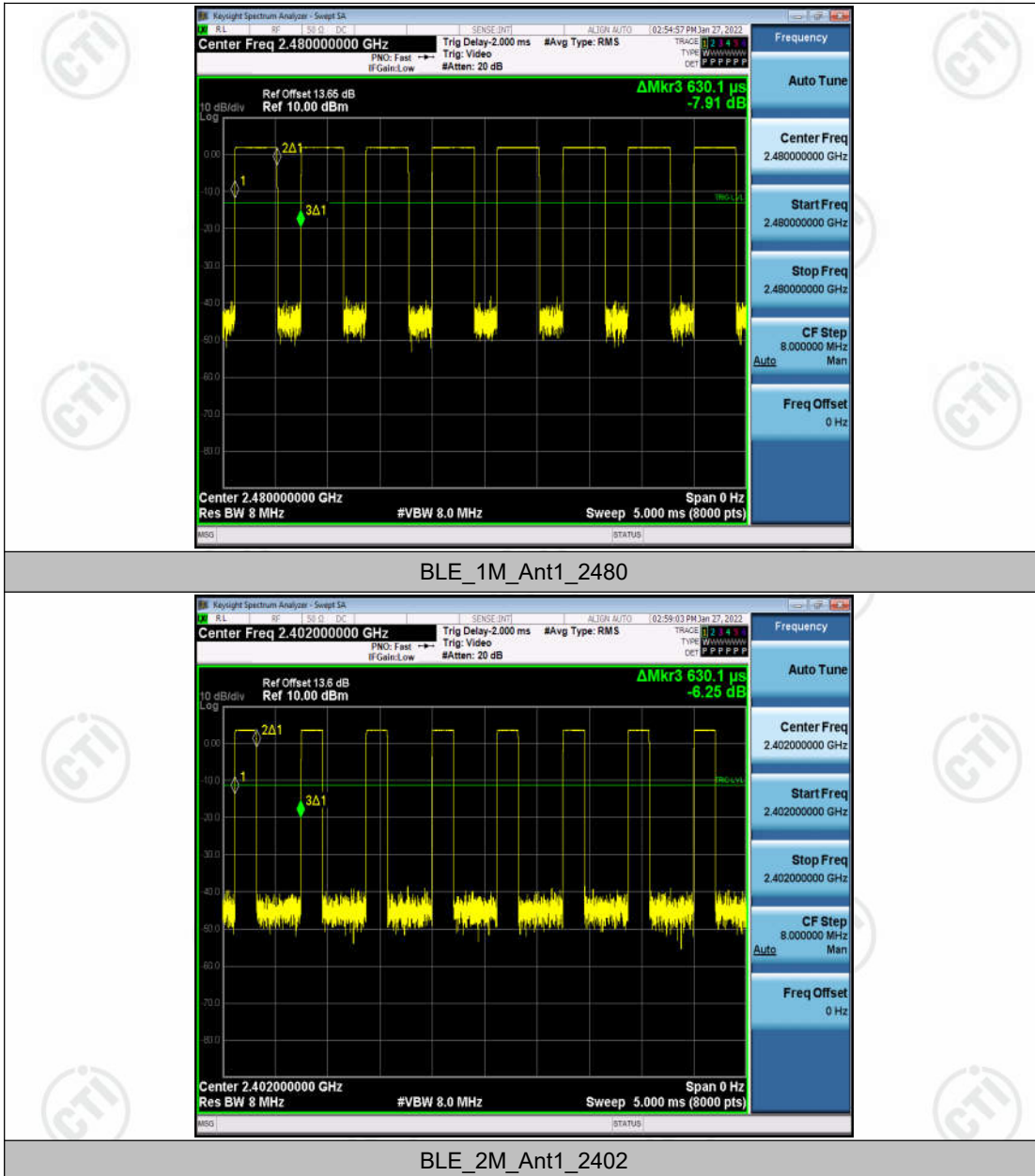


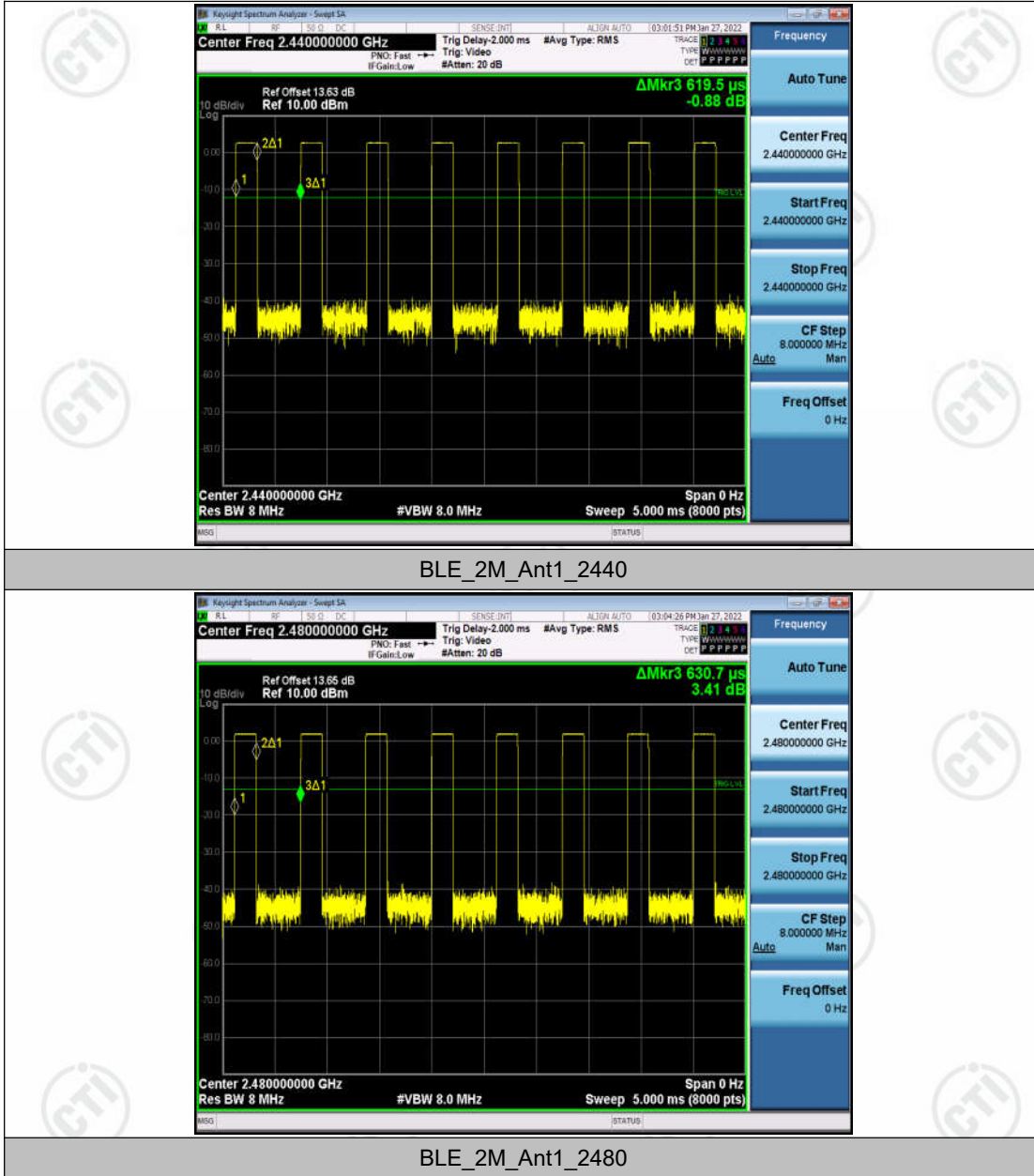
Appendix G: Duty Cycle**Test Result**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.62	65.49	---	PASS
		2440	0.41	0.63	64.38	---	PASS
		2480	0.41	0.63	64.38	---	PASS
BLE_2M	Ant1	2402	0.21	0.63	32.64	---	PASS
		2440	0.21	0.62	33.20	---	PASS
		2480	0.21	0.63	32.71	---	PASS

Test Graphs







*** End of Report ***