

Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth 3

 Test Result 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth 6

 Test Result 6

 Test Graphs 7

Appendix C: Maximum conducted output power 9

 Test Result 9

 Test Graphs 10

Appendix D: Maximum power spectral density 12

 Test Result 12

 Test Graphs 13

Appendix E: Band edge measurements 15

 Test Result 15

 Test Graphs 16

Appendix F: Conducted Spurious Emission 17

 Test Result 17

 Test Graphs 18

Appendix G: Duty Cycle 23

 Test Result 23

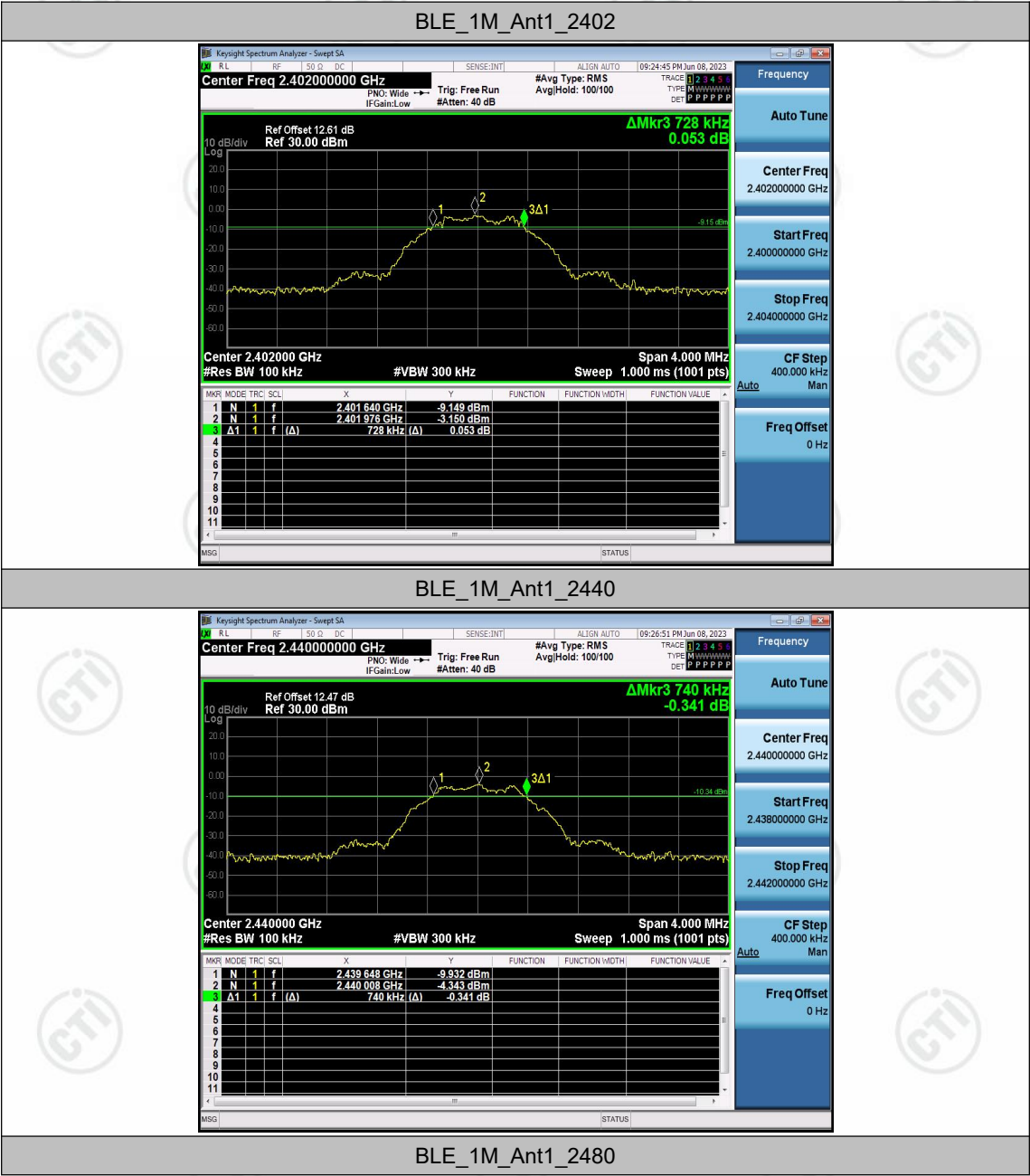
 Test Graphs 24

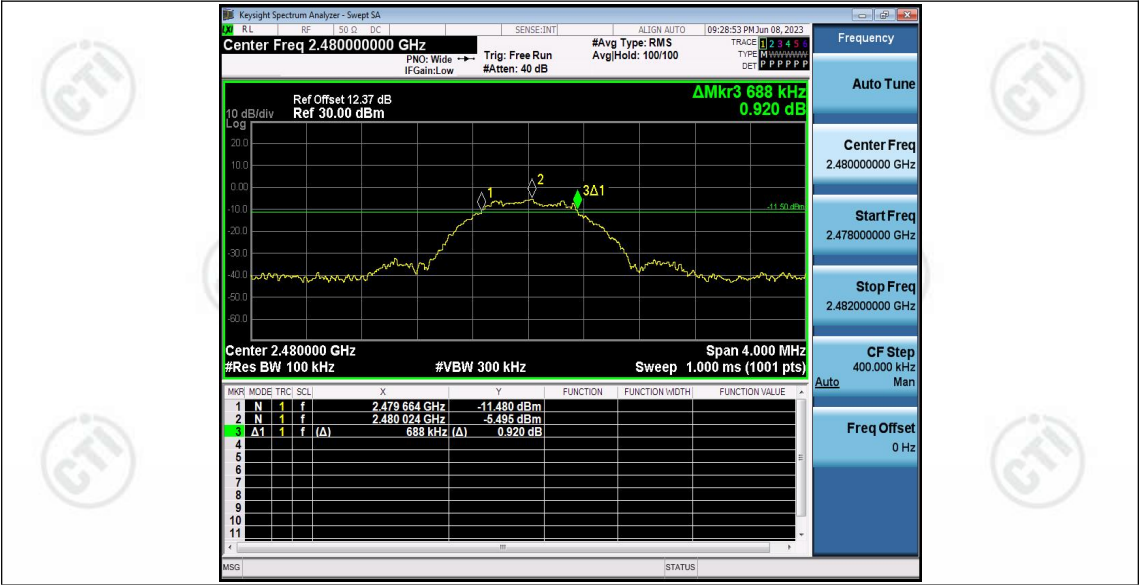
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.728	2401.640	2402.368	0.5	PASS
		2440	0.740	2439.648	2440.388	0.5	PASS
		2480	0.688	2479.664	2480.352	0.5	PASS

Test Graphs



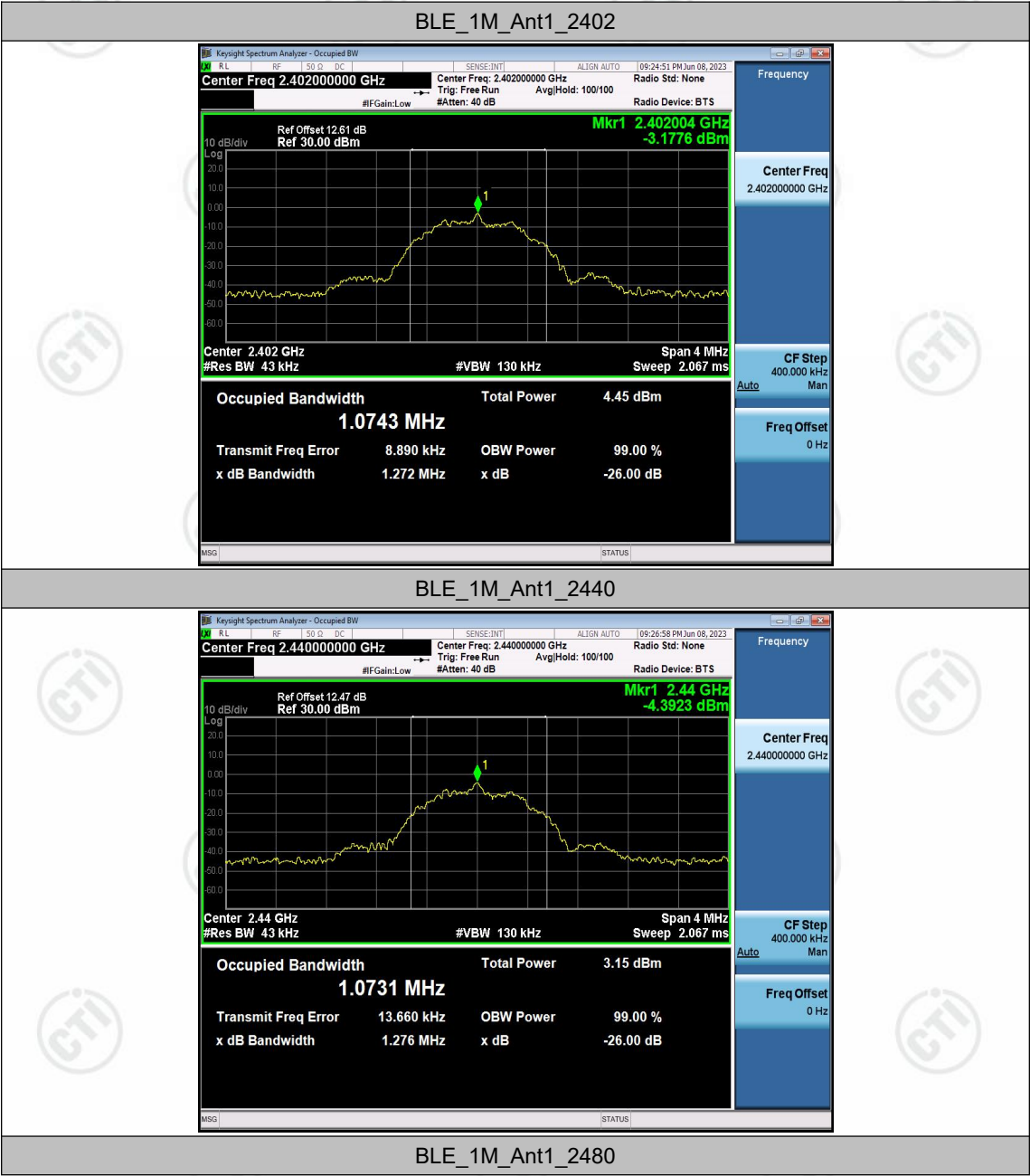


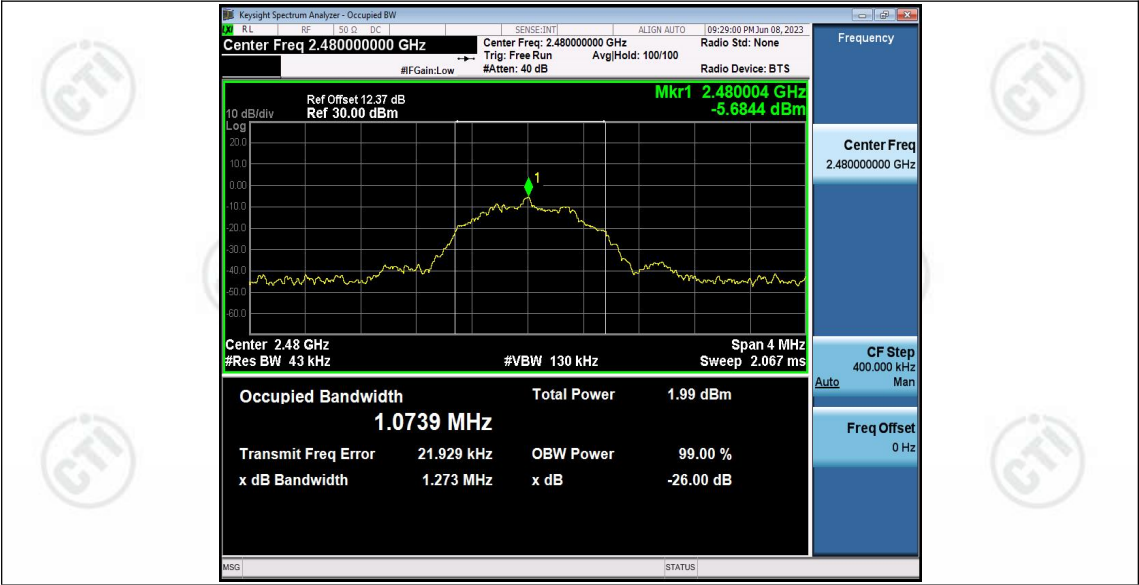
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0743	2401.4717	2402.5460	---	---
		2440	1.0731	2439.4771	2440.5502	---	---
		2480	1.0739	2479.4850	2480.5589	---	---

Test Graphs



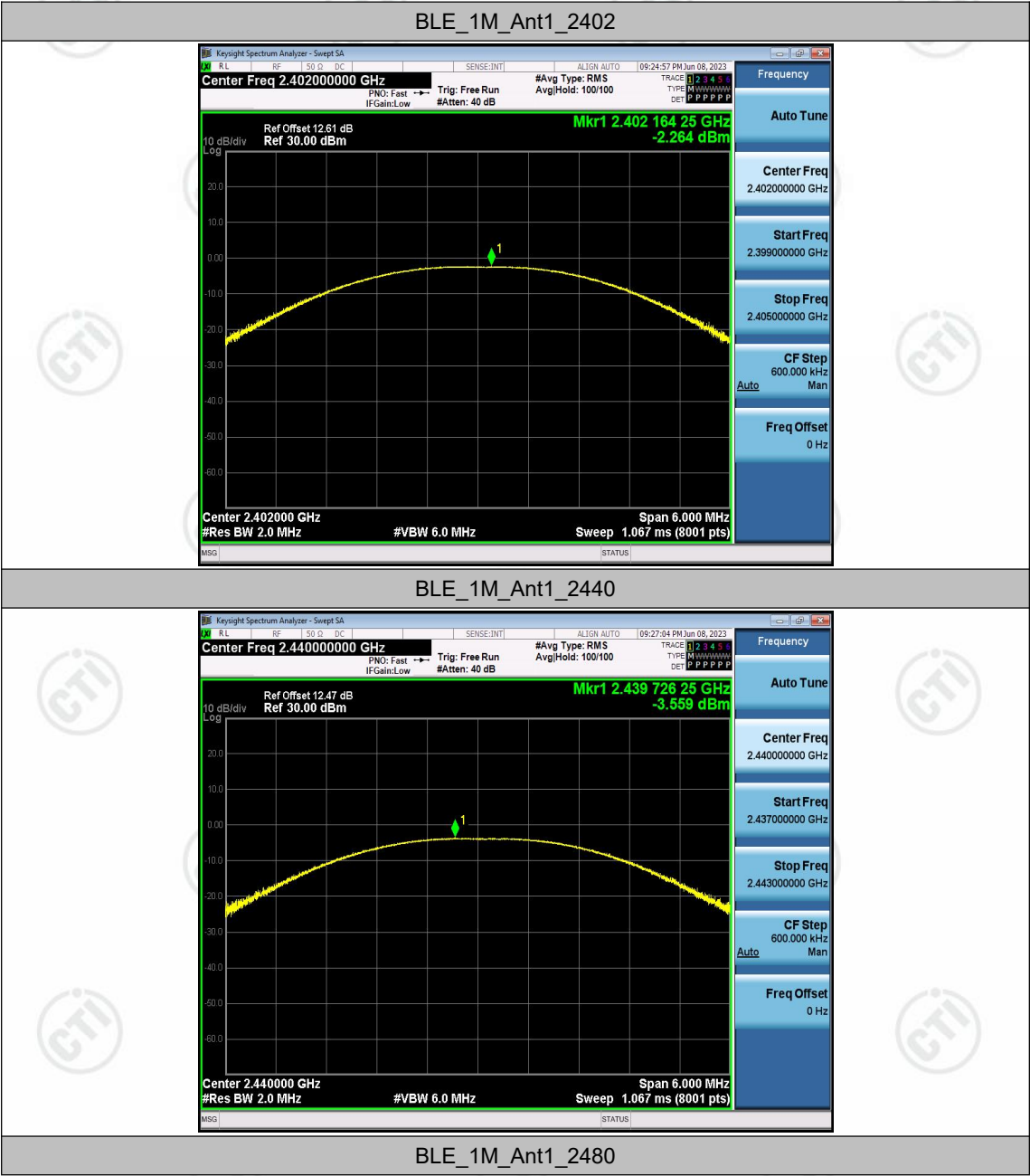


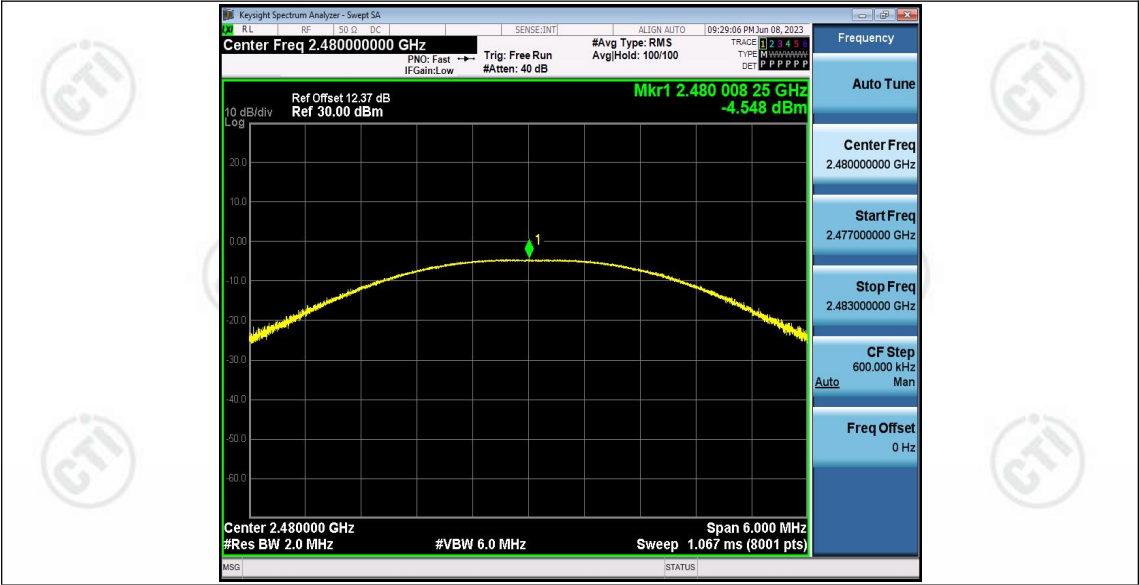
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.26	≤30	PASS
		2440	-3.56	≤30	PASS
		2480	-4.55	≤30	PASS

Test Graphs



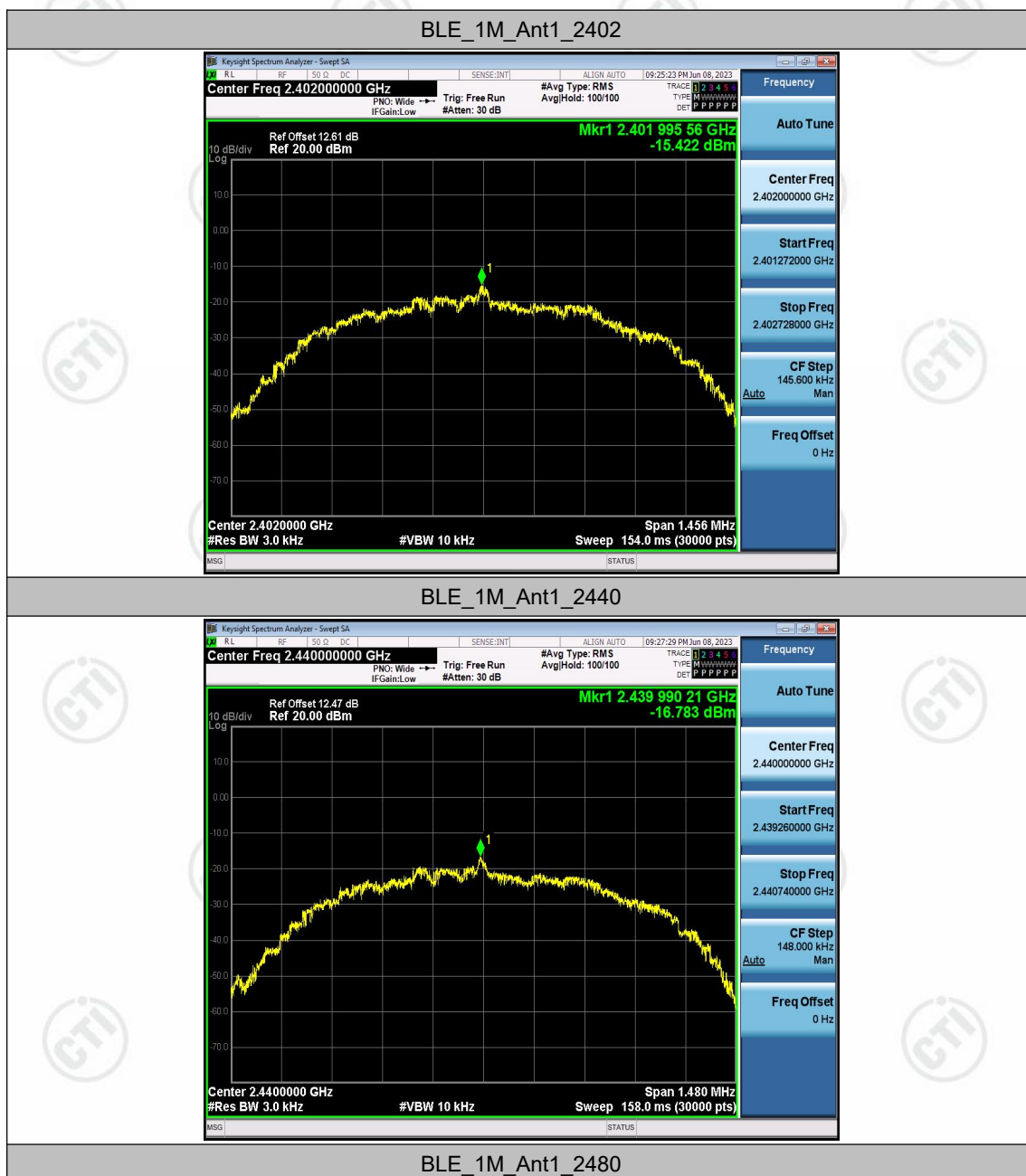


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.42	≤8.00	PASS
		2440	-16.78	≤8.00	PASS
		2480	-17.49	≤8.00	PASS

Test Graphs



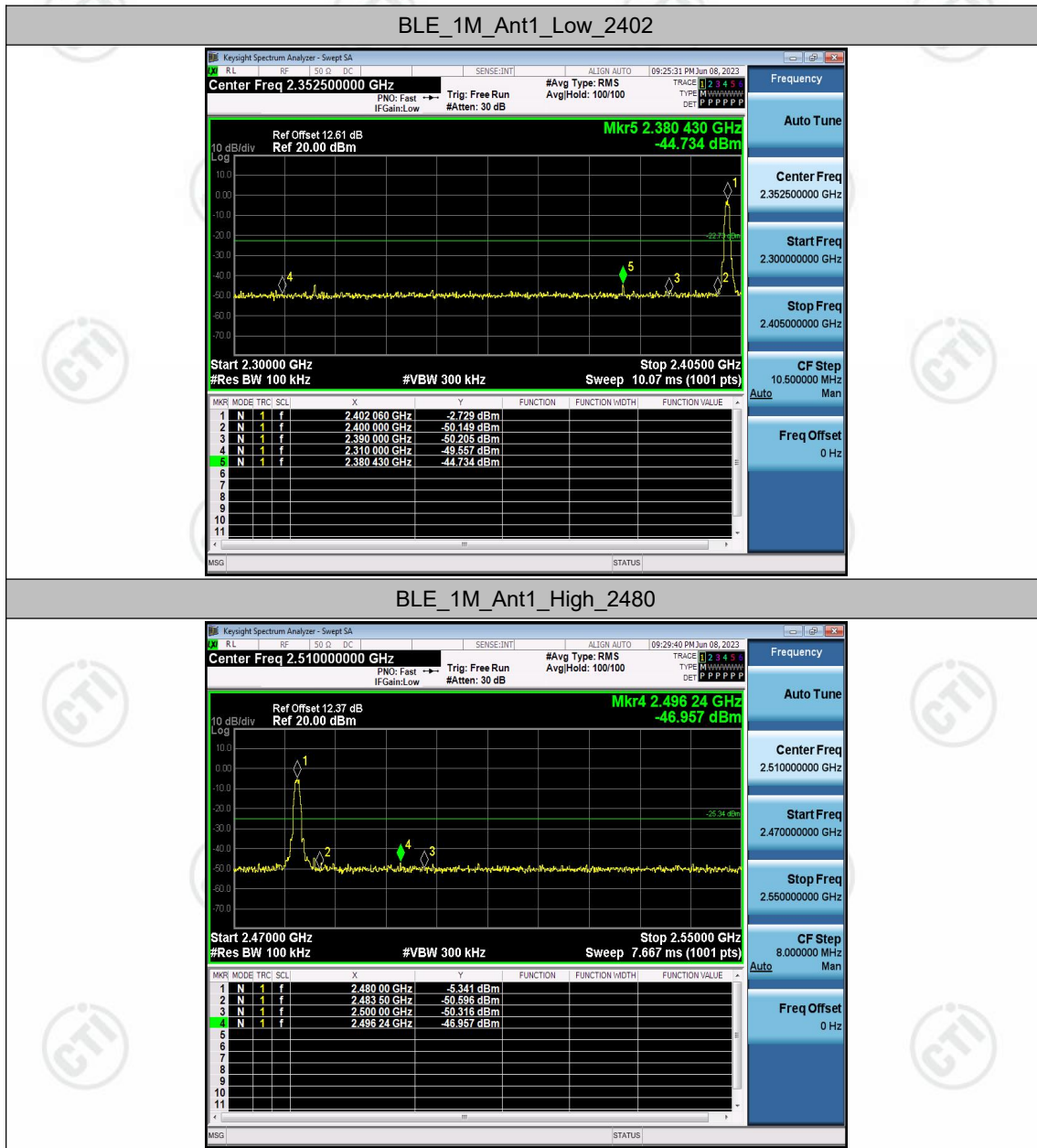


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.73	-44.73	≤-22.73	PASS
		High	2480	-5.34	-46.96	≤-25.34	PASS

Test Graphs

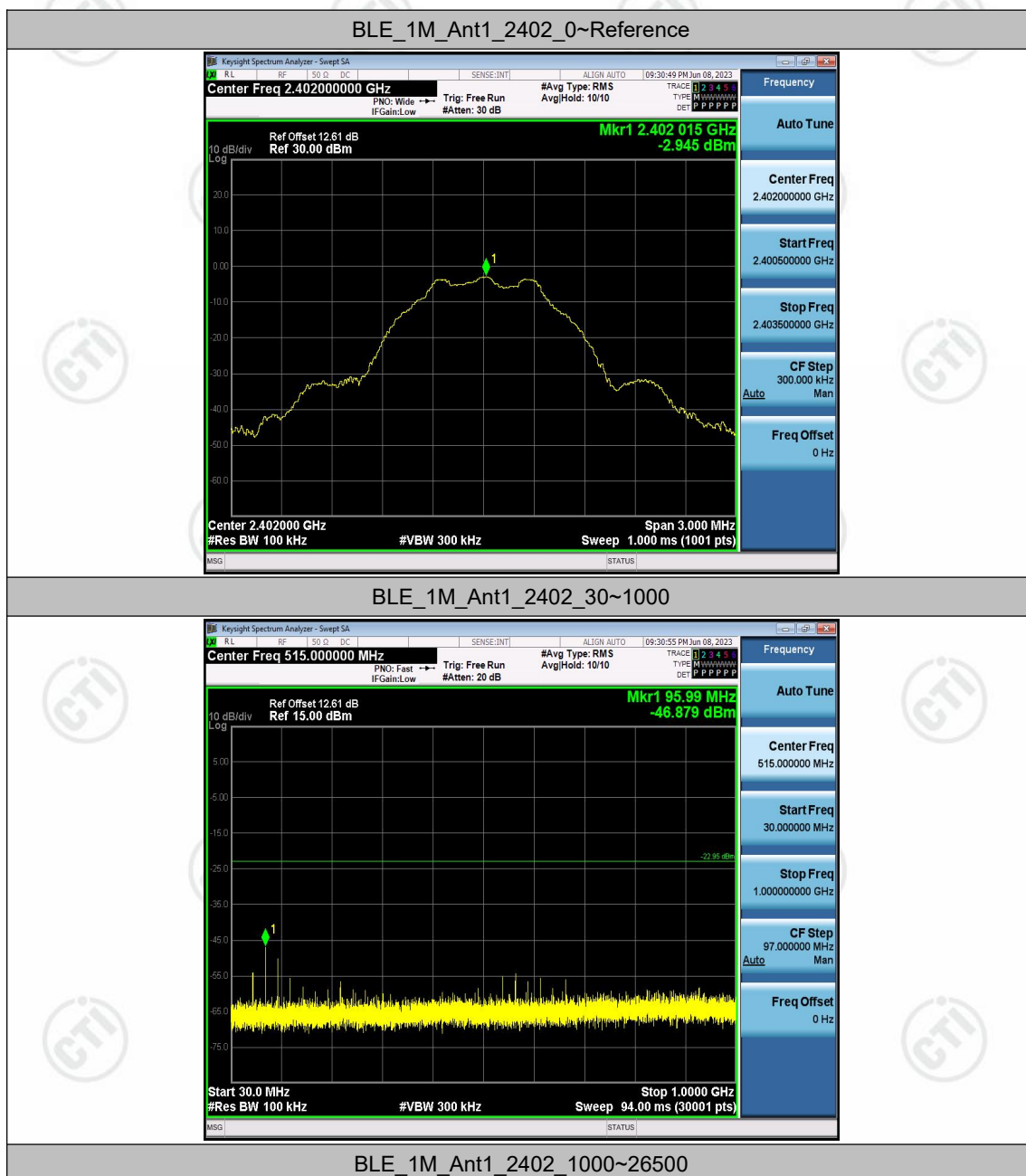


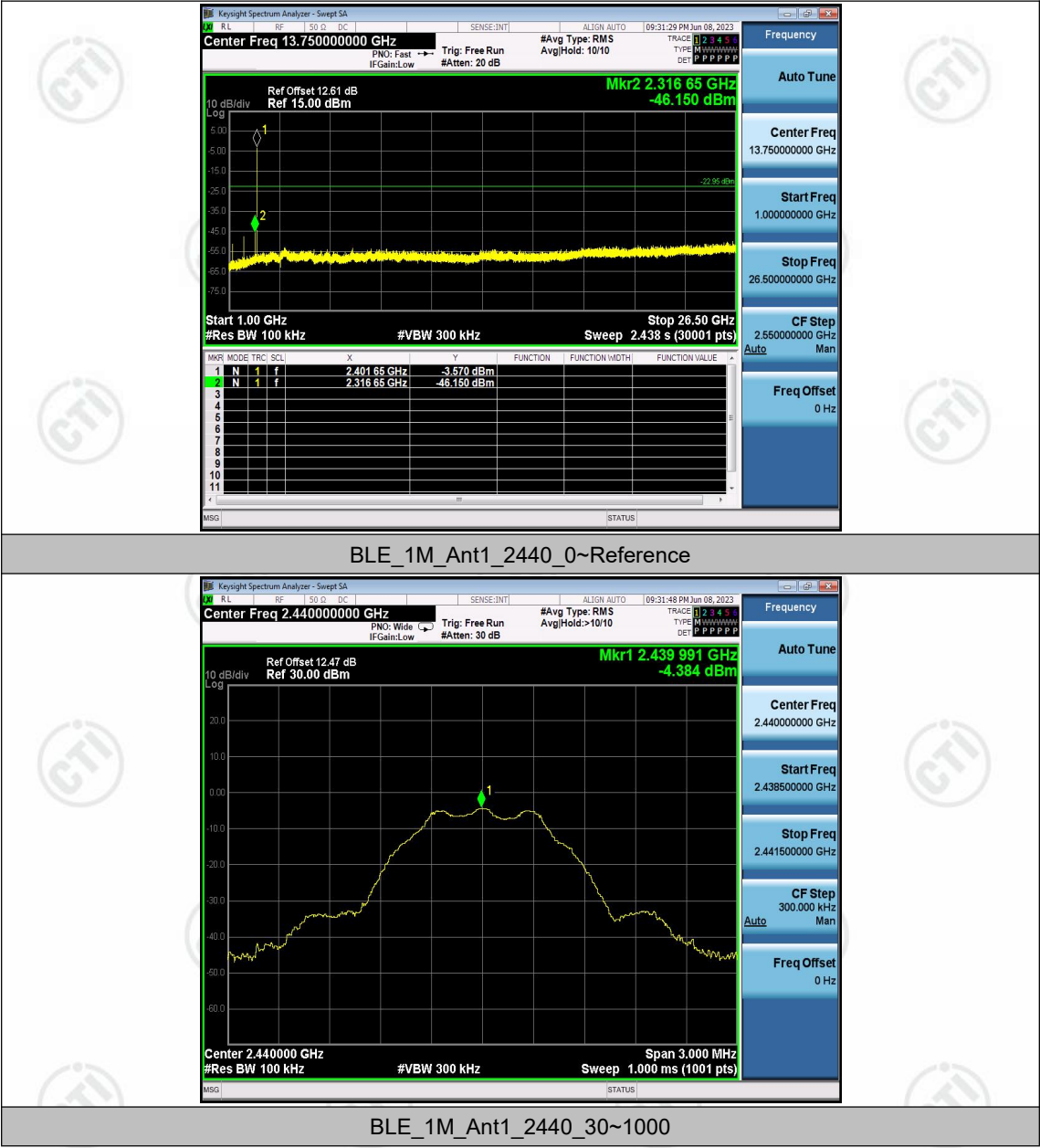
Appendix F: Conducted Spurious Emission

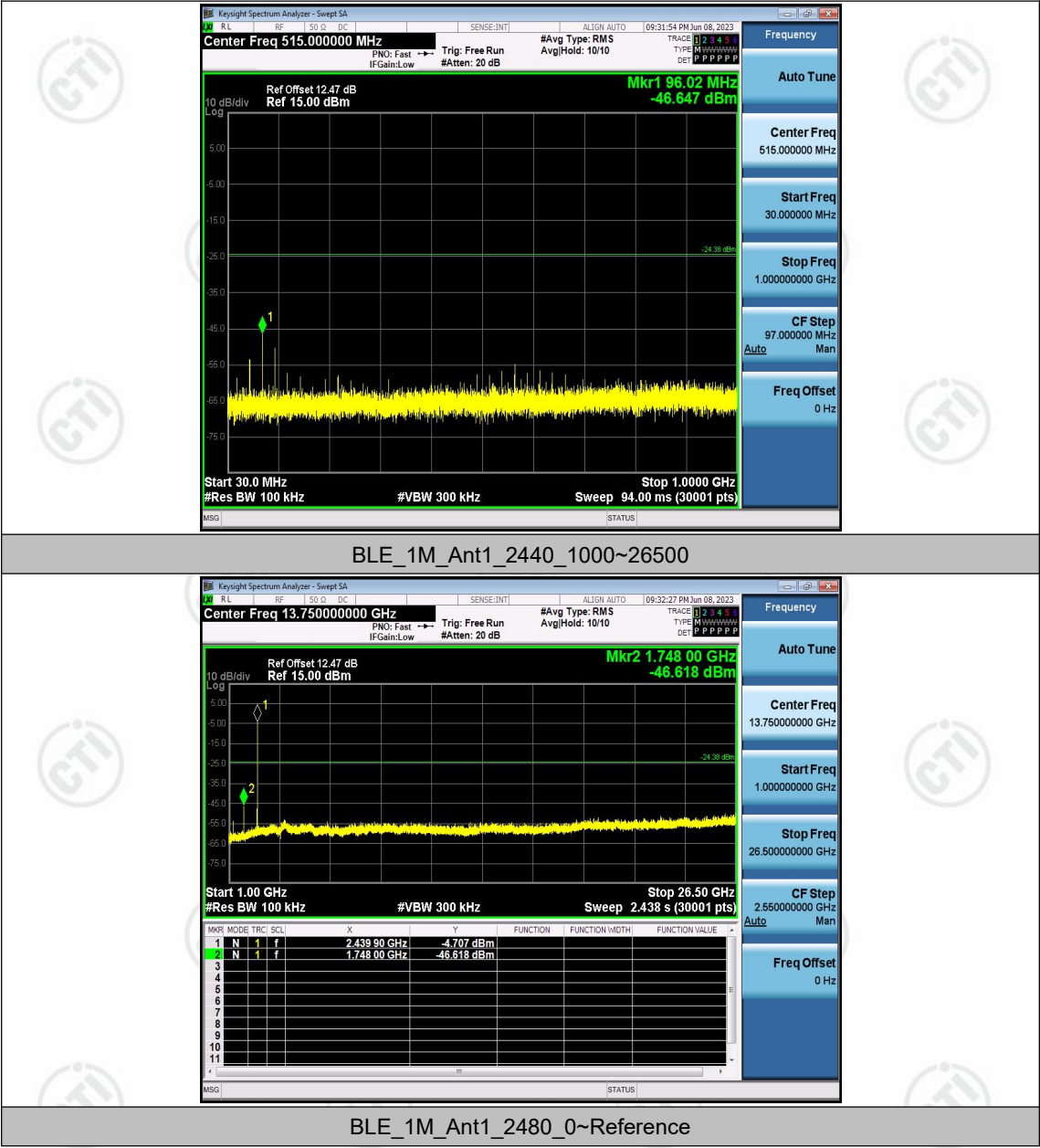
Test Result

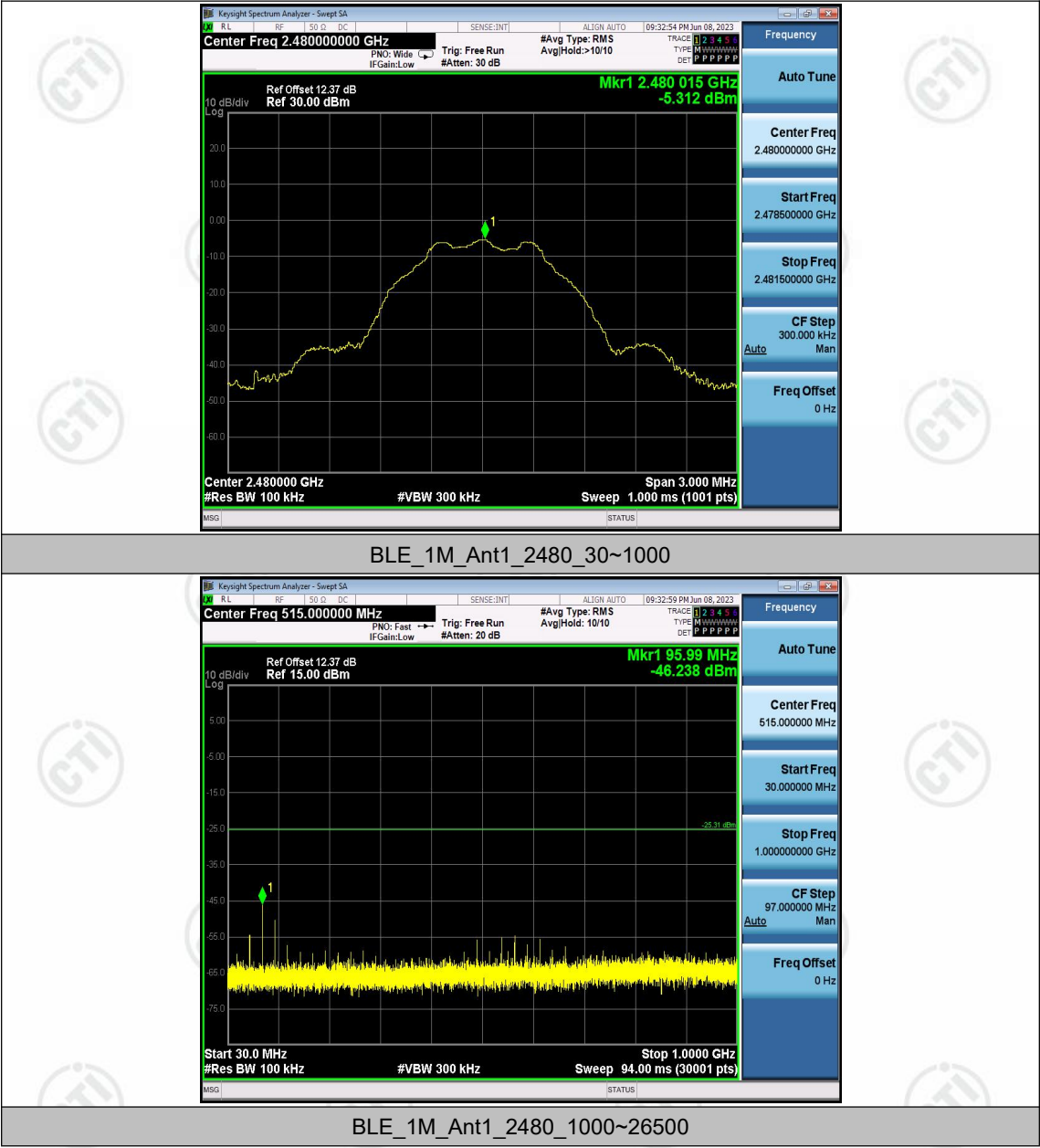
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-46.88	≤-22.95	PASS
			1000~26500	-2.95	-46.15	≤-22.95	PASS
		2440	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-46.65	≤-24.38	PASS
			1000~26500	-4.38	-46.62	≤-24.38	PASS
		2480	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-46.24	≤-25.31	PASS
			1000~26500	-5.31	-46.79	≤-25.31	PASS

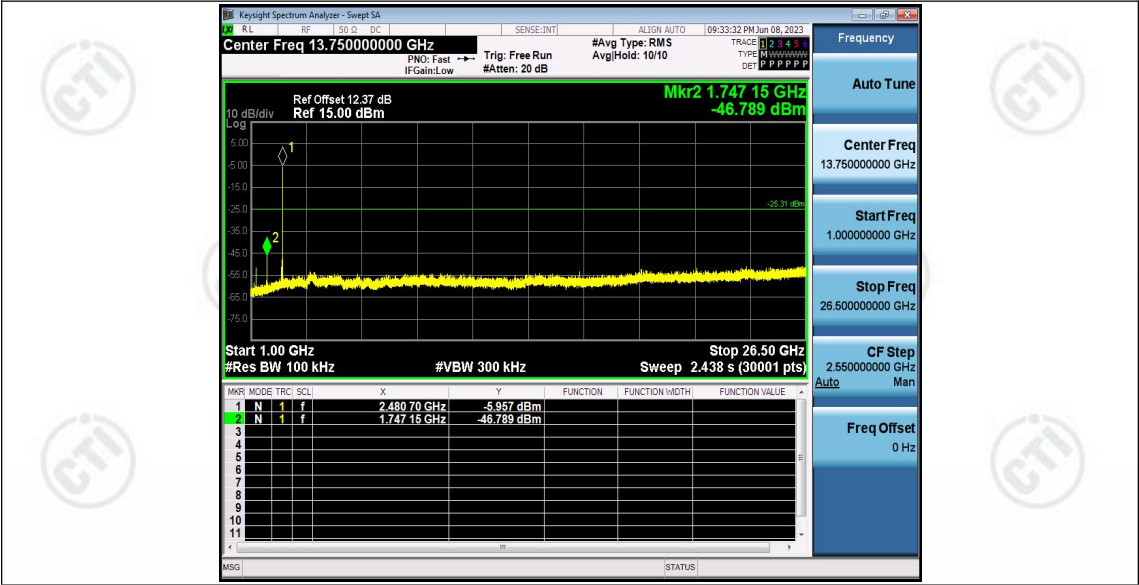
Test Graphs









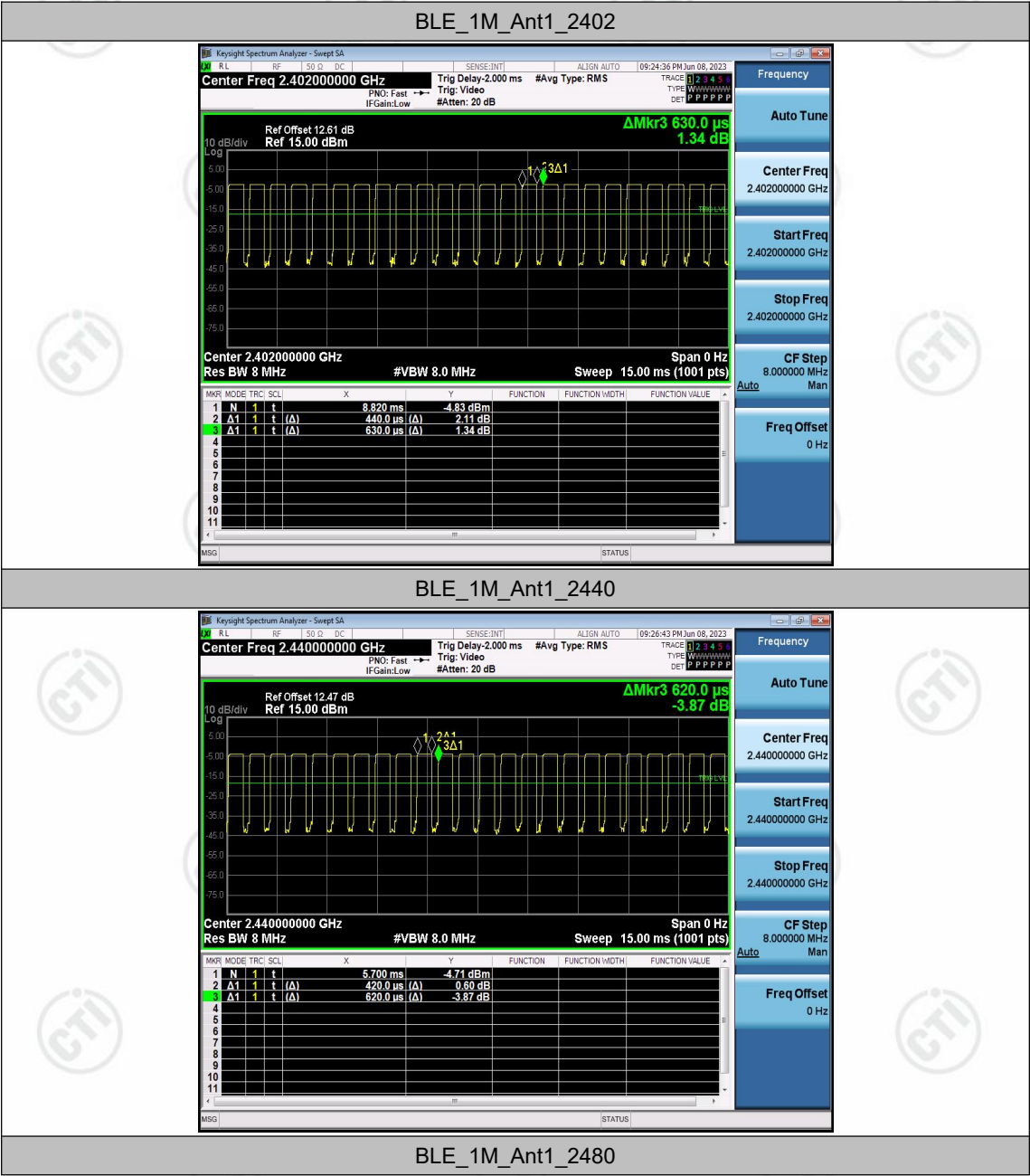


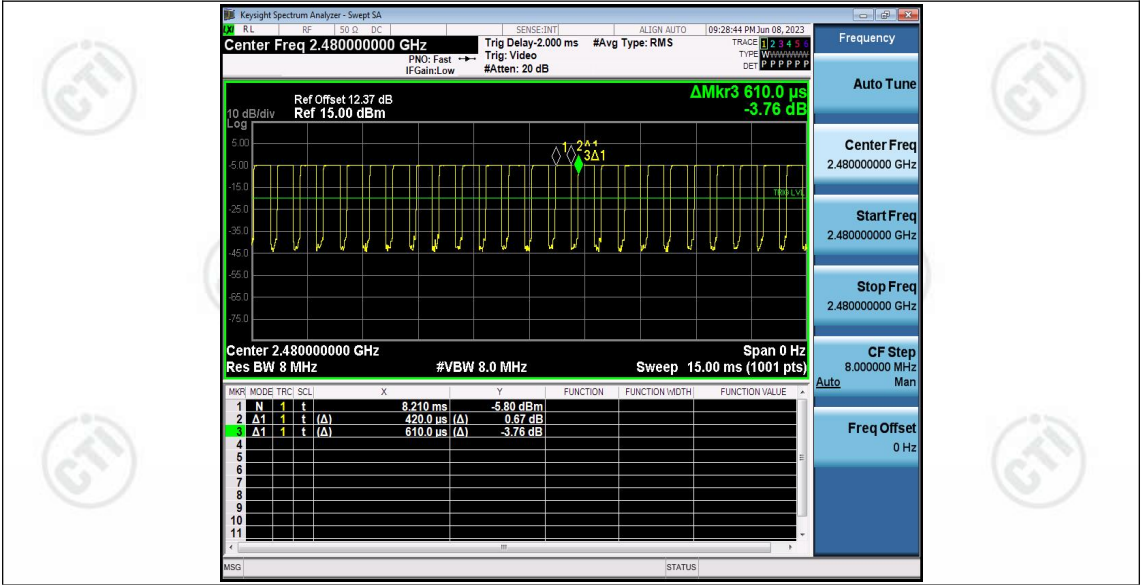
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.44	0.63	69.84	1.56
		2440	0.42	0.62	67.74	1.69
		2480	0.42	0.61	68.85	1.62

Test Graphs





*** End of Report ***