

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 Peak 9

 Test Graphs Peak 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

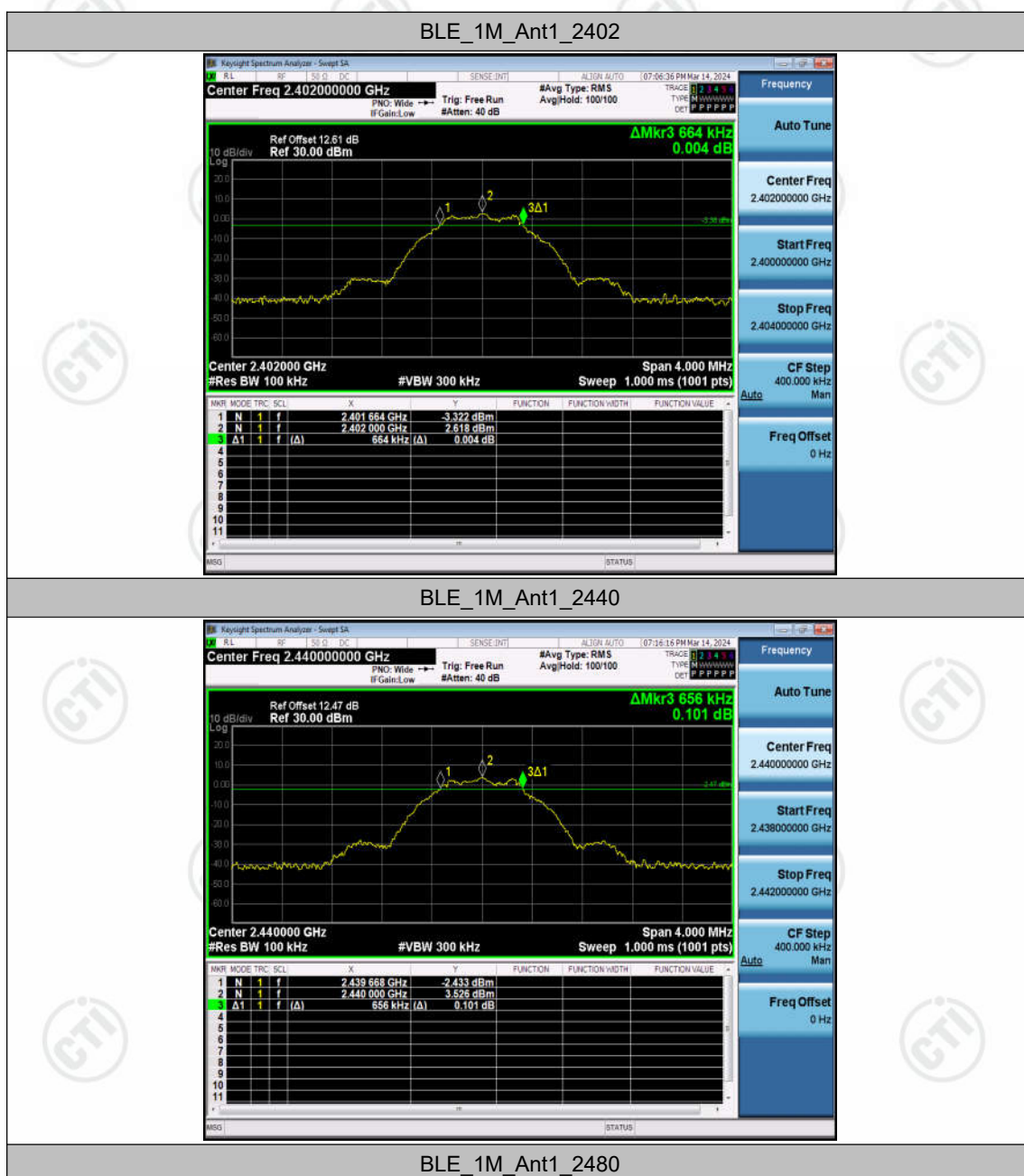
 Test Graphs 24

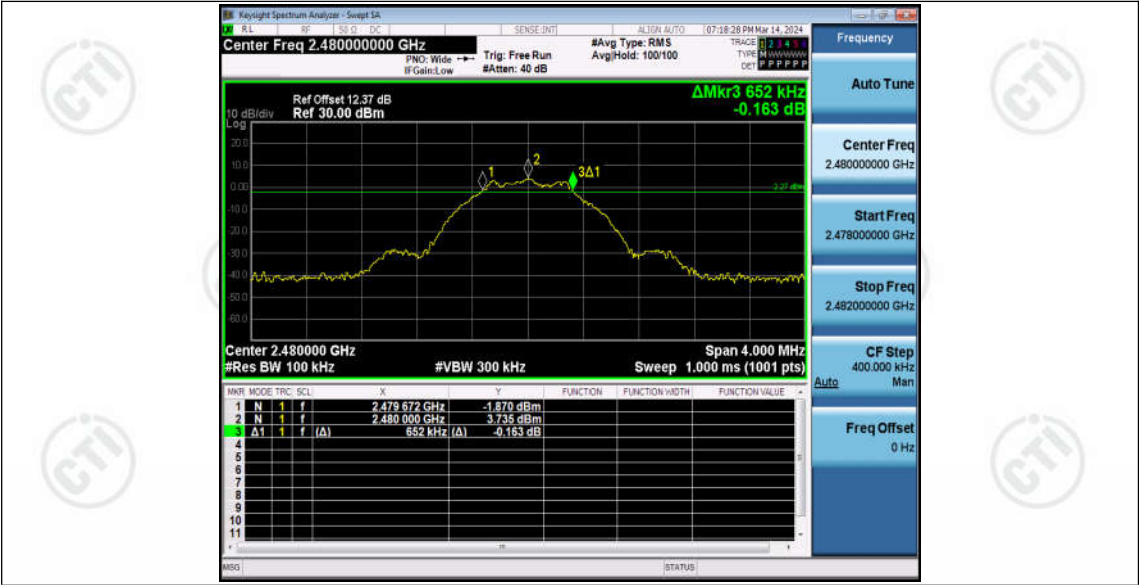
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.656	2439.668	2440.324	0.5	PASS
		2480	0.652	2479.672	2480.324	0.5	PASS

Test Graphs



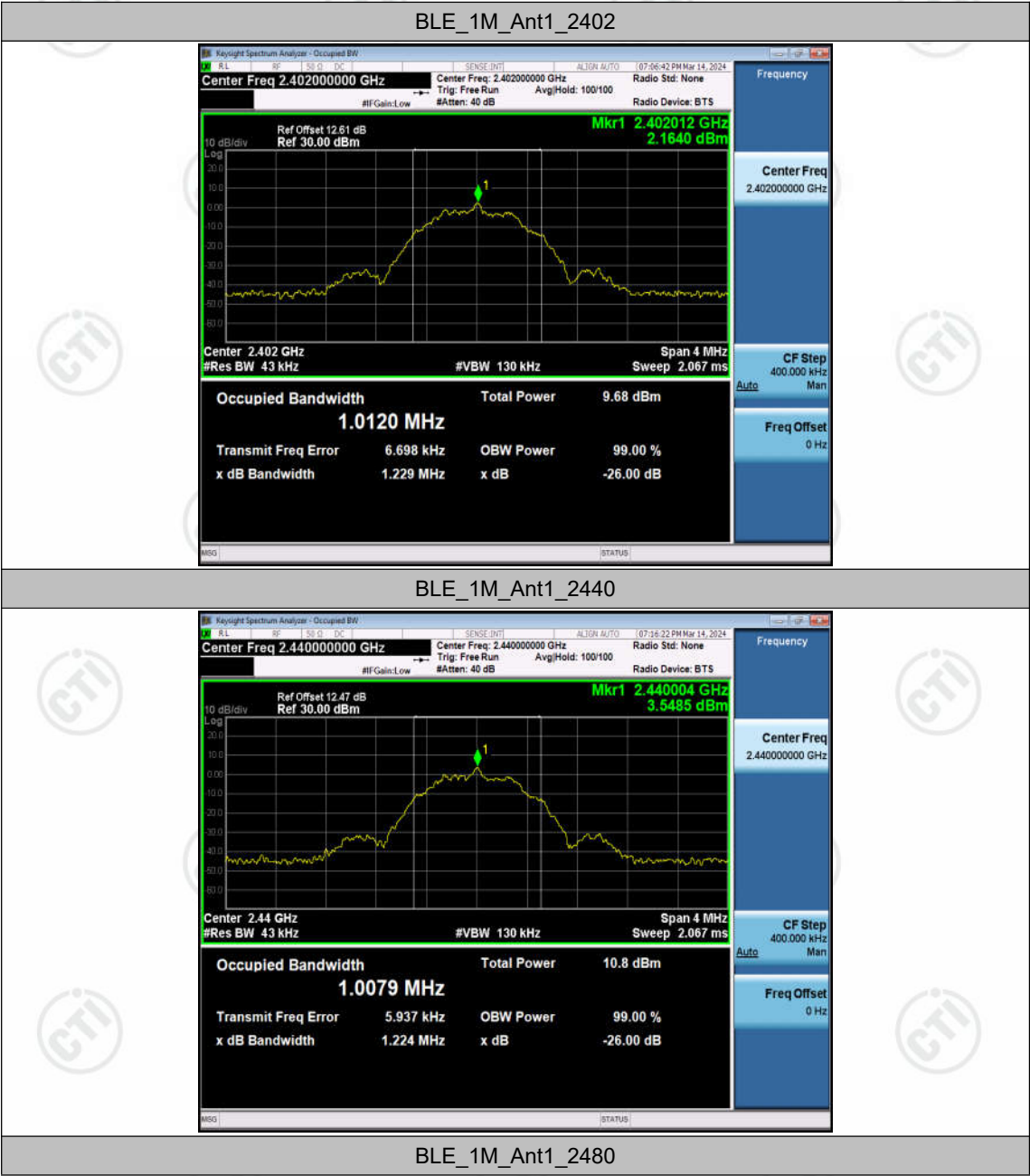


Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0120	2401.5007	2402.5127	---	---
		2440	1.0079	2439.5020	2440.5099	---	---
		2480	1.0129	2479.4999	2480.5128	---	---

Test Graphs



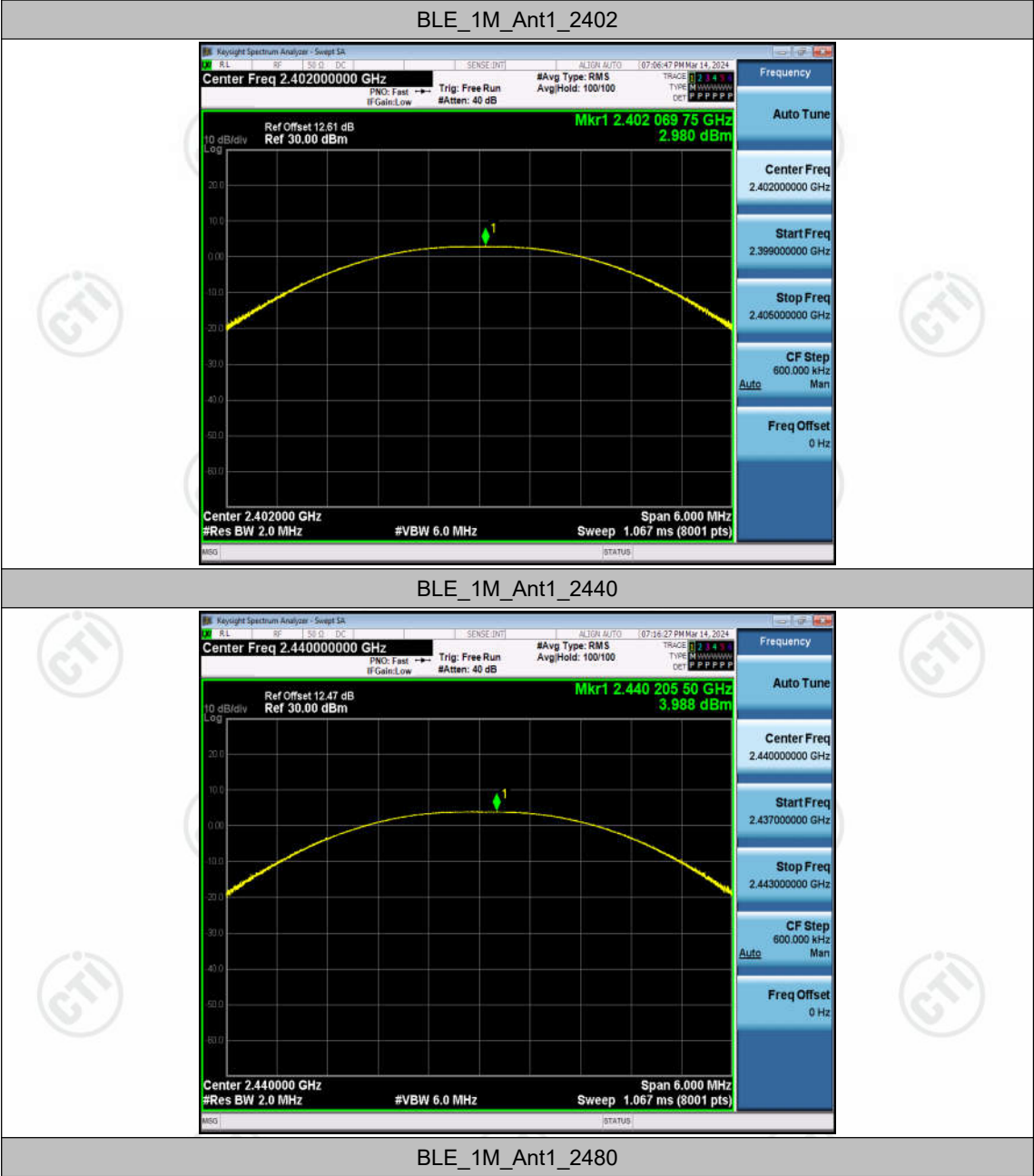


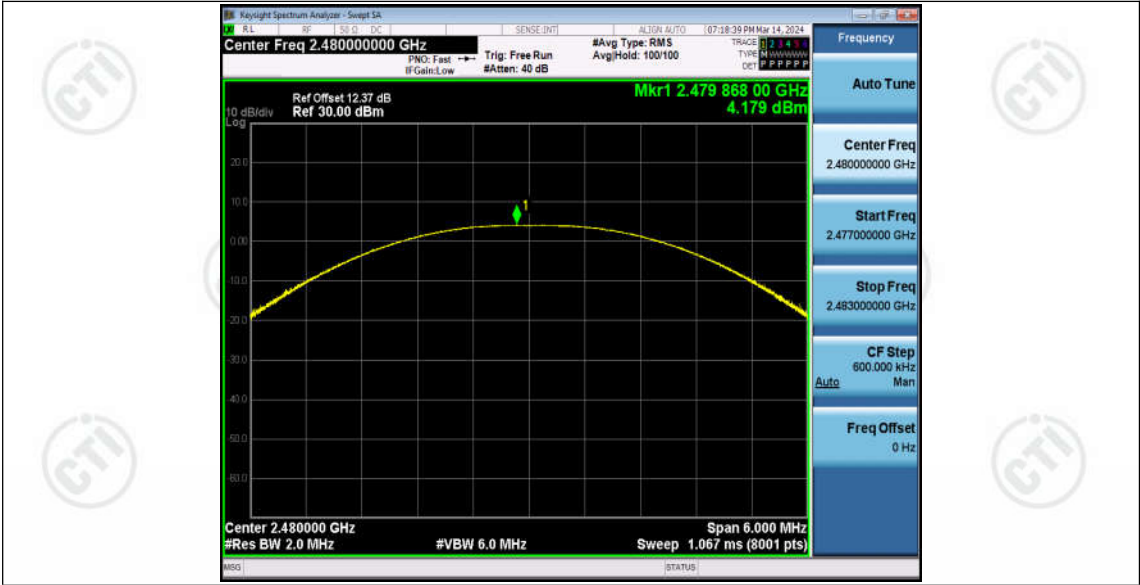
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.98	≤30	PASS
		2440	3.99	≤30	PASS
		2480	4.18	≤30	PASS

Test Graphs Peak



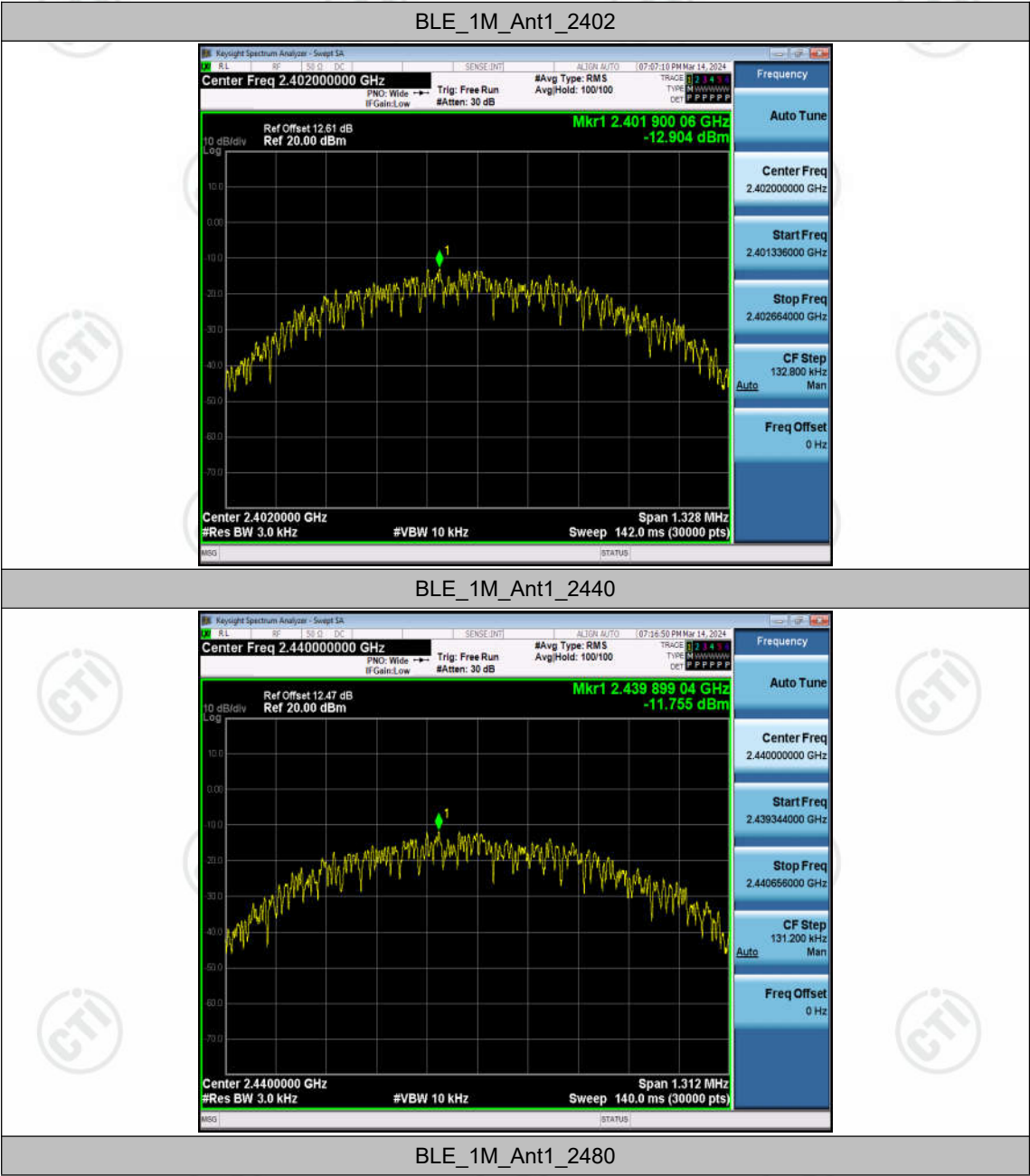


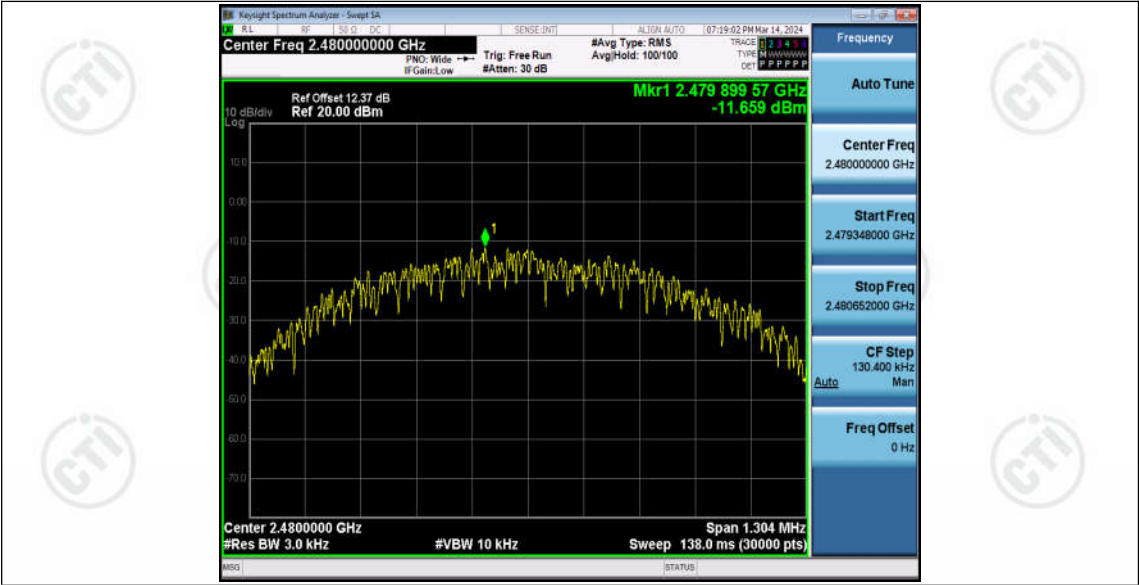
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.9	≤8.00	PASS
		2440	-11.76	≤8.00	PASS
		2480	-11.66	≤8.00	PASS

Test Graphs



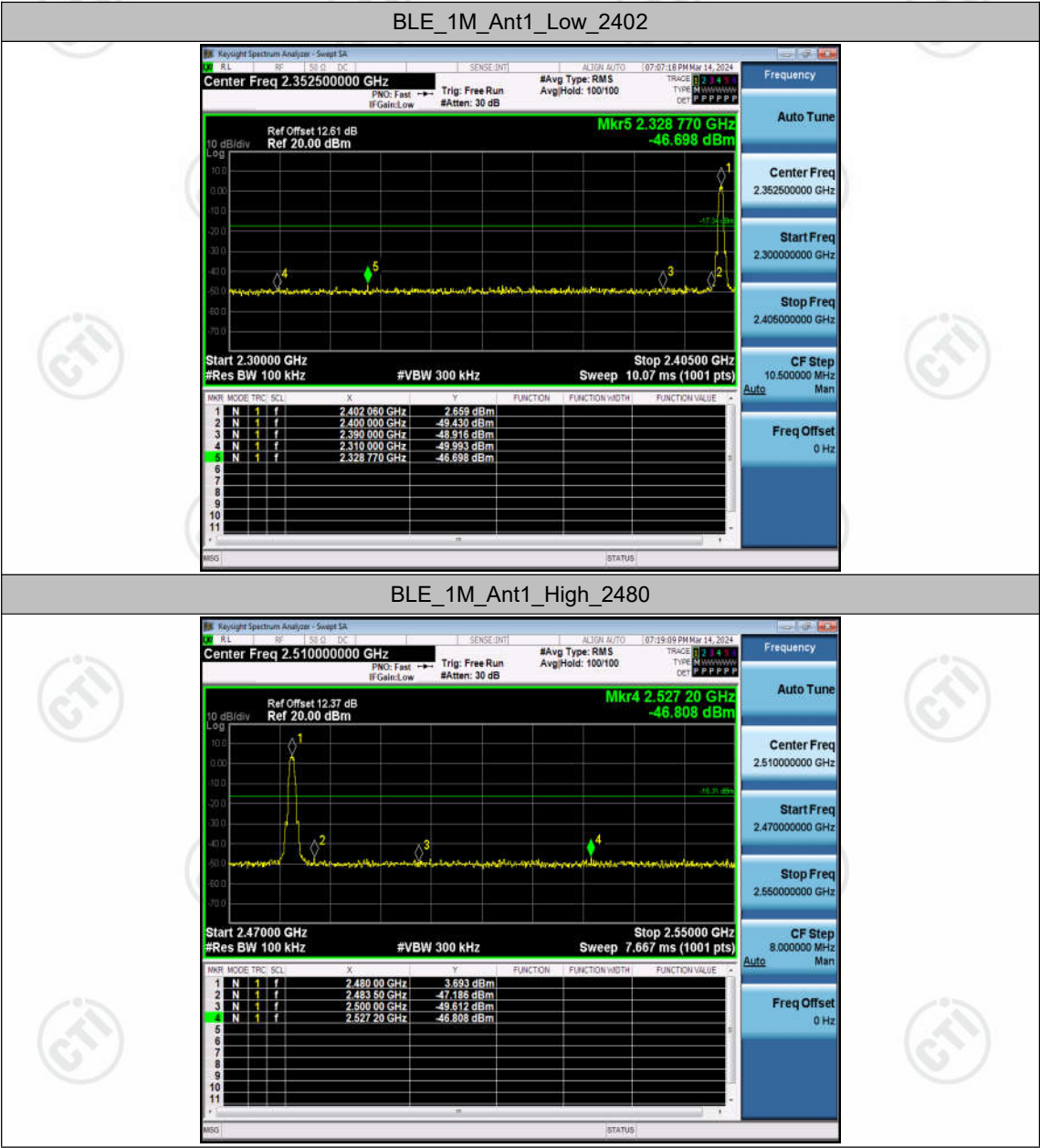


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.66	-46.7	≤-17.34	PASS
		High	2480	3.69	-46.81	≤-16.31	PASS

Test Graphs



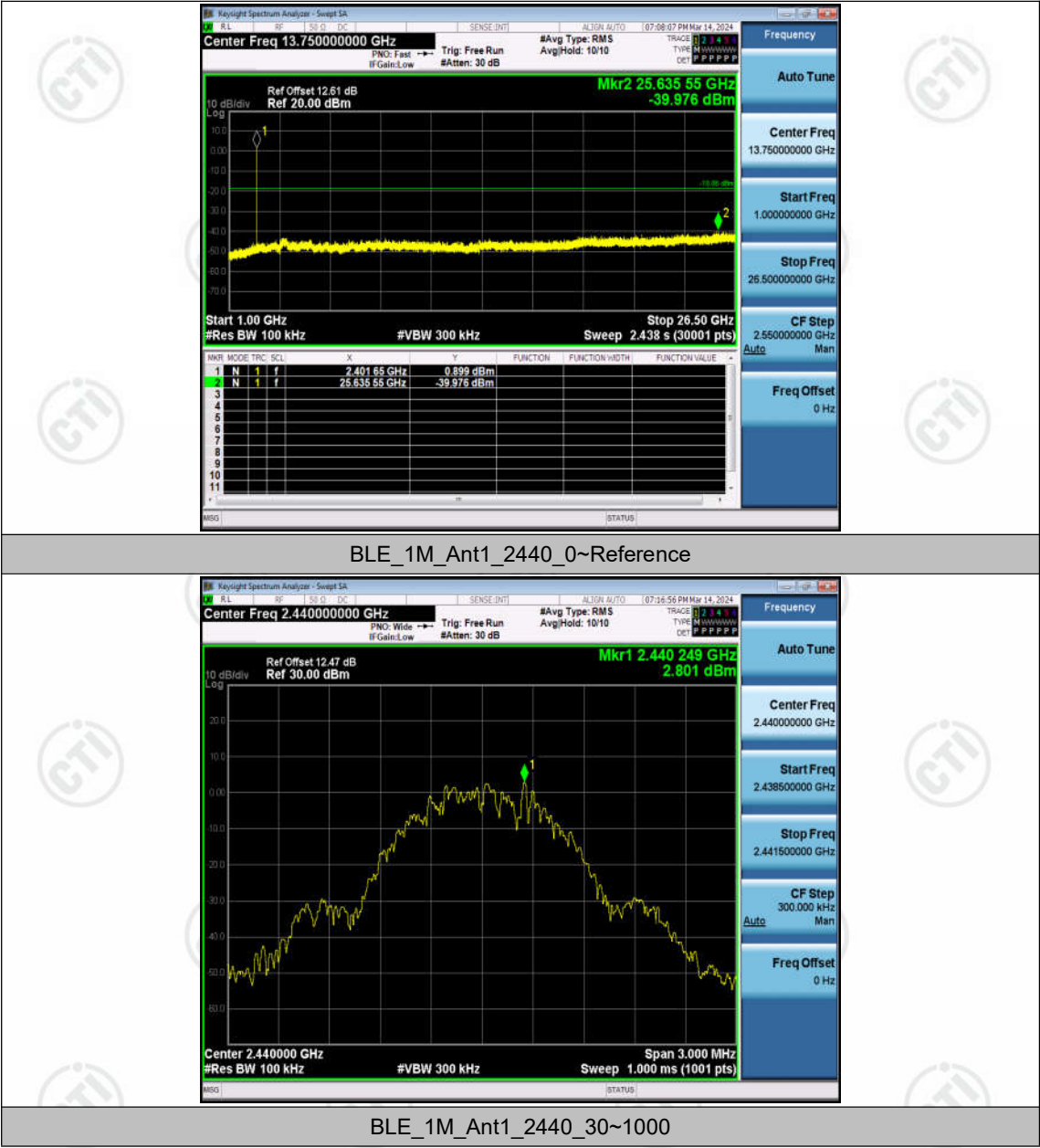
Appendix F: Conducted Spurious Emission

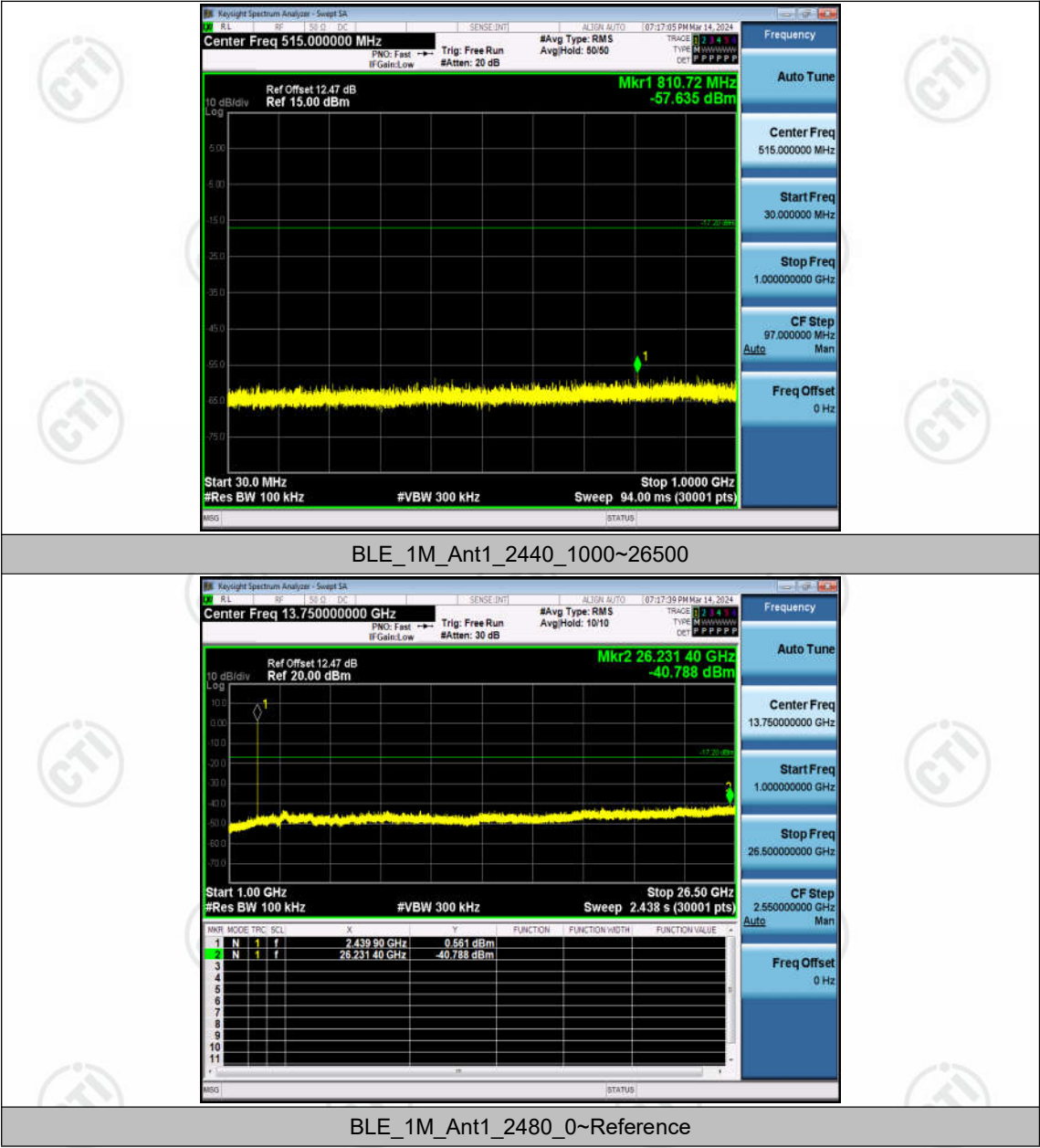
Test Result

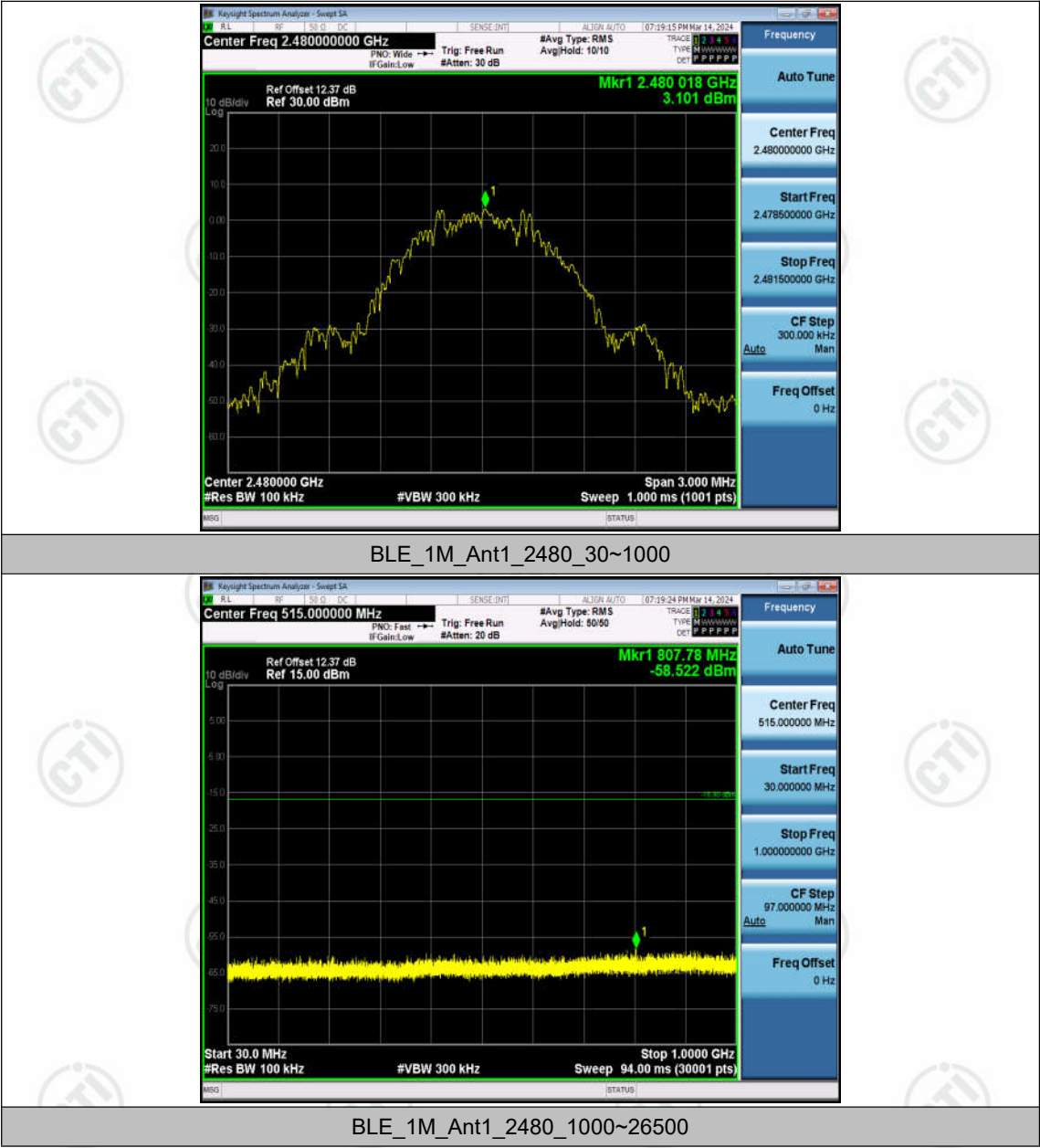
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-47.58	≤-18.86	PASS
			1000~26500	1.14	-39.98	≤-18.86	PASS
		2440	Reference	2.80	2.80	---	PASS
			30~1000	2.80	-57.64	≤-17.2	PASS
			1000~26500	2.80	-40.79	≤-17.2	PASS
		2480	Reference	3.10	3.10	---	PASS
			30~1000	3.10	-58.52	≤-16.9	PASS
			1000~26500	3.10	-40.63	≤-16.9	PASS

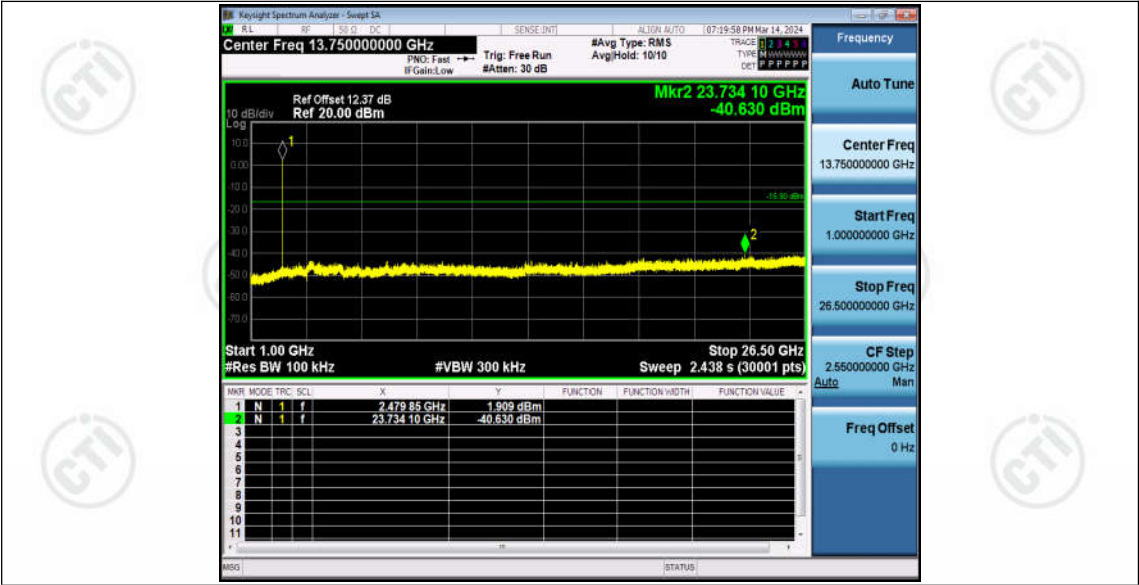
Test Graphs









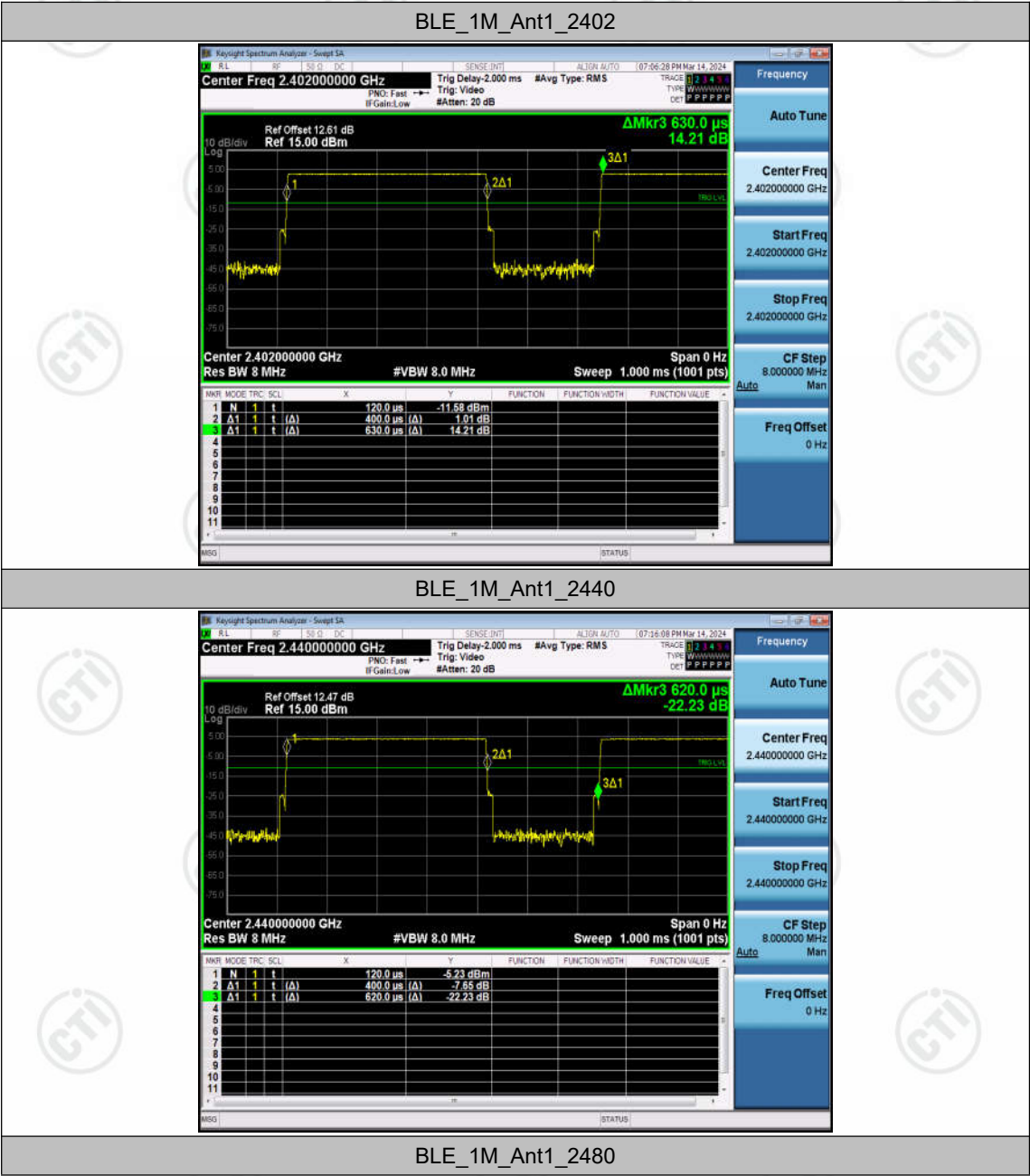


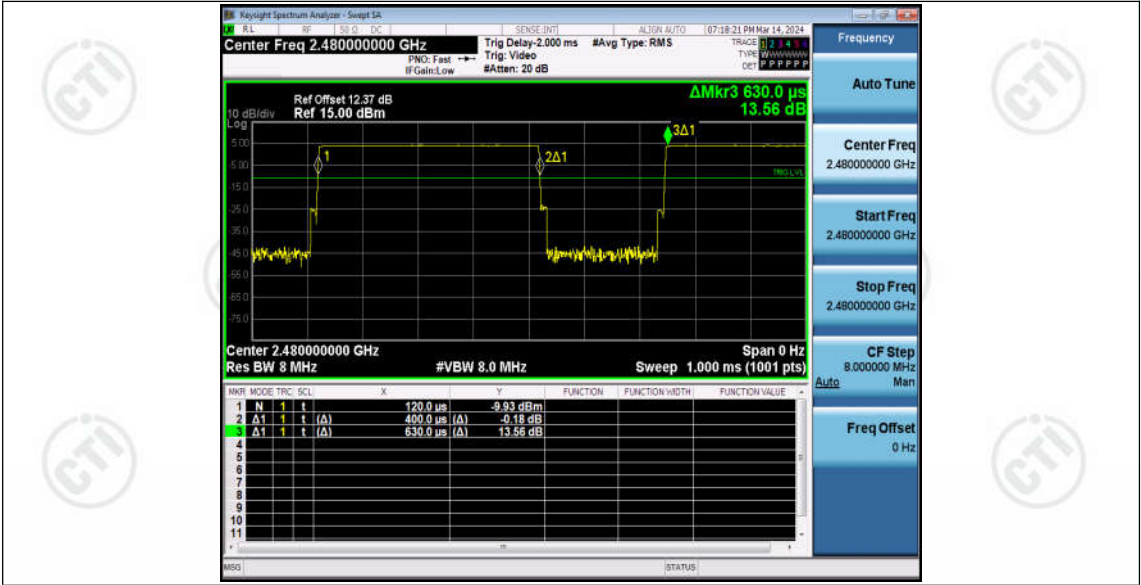
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
		2440	0.40	0.62	64.52	1.90
		2480	0.40	0.63	63.49	1.97

Test Graphs





*** End of Report ***