

Appendix: Bluetooth LE

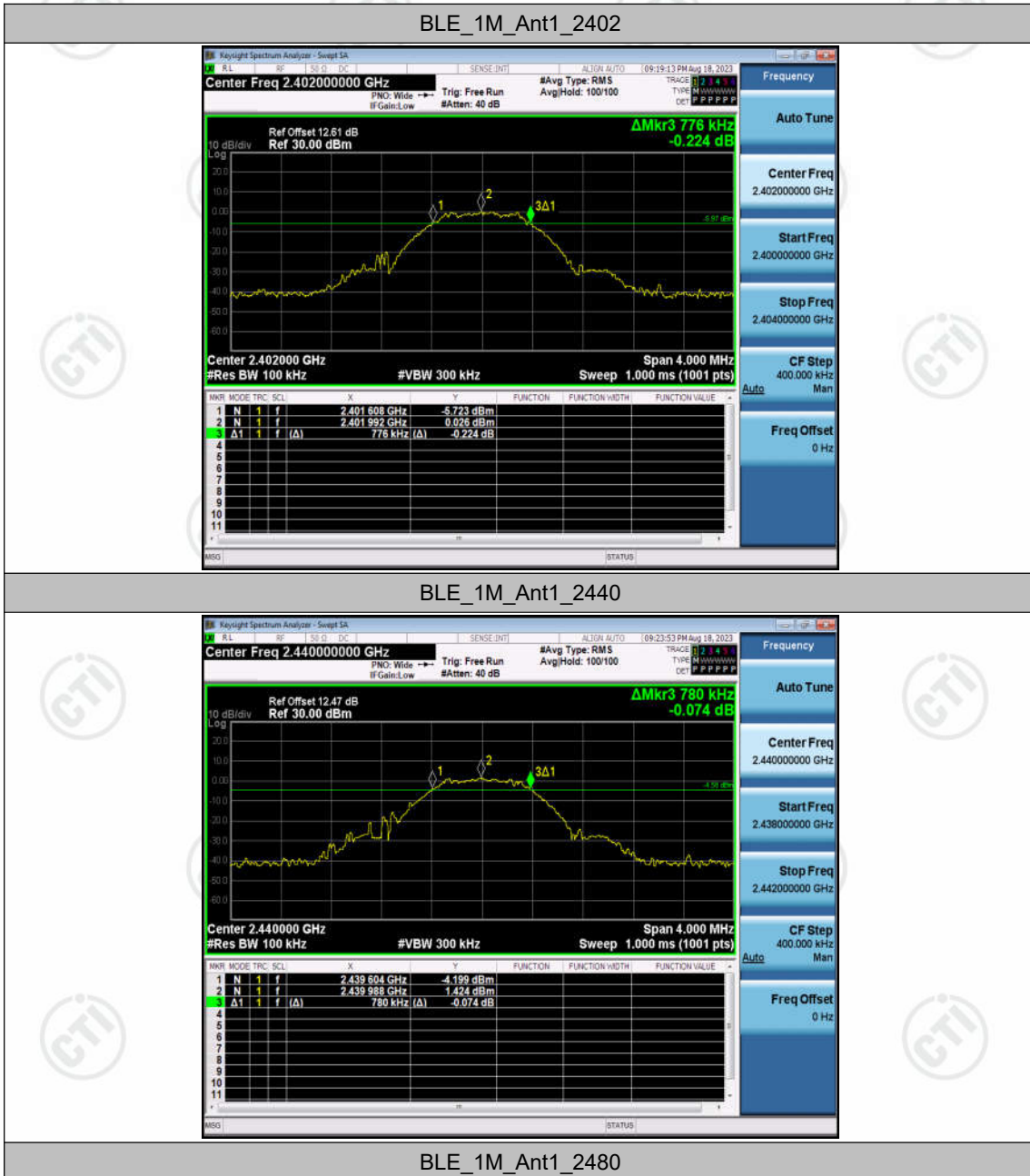
Contents

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	0.776	2401.608	2402.384	0.5	PASS
		2440	0.780	2439.604	2440.384	0.5	PASS
		2480	0.800	2479.596	2480.396	0.5	PASS

Test Graphs



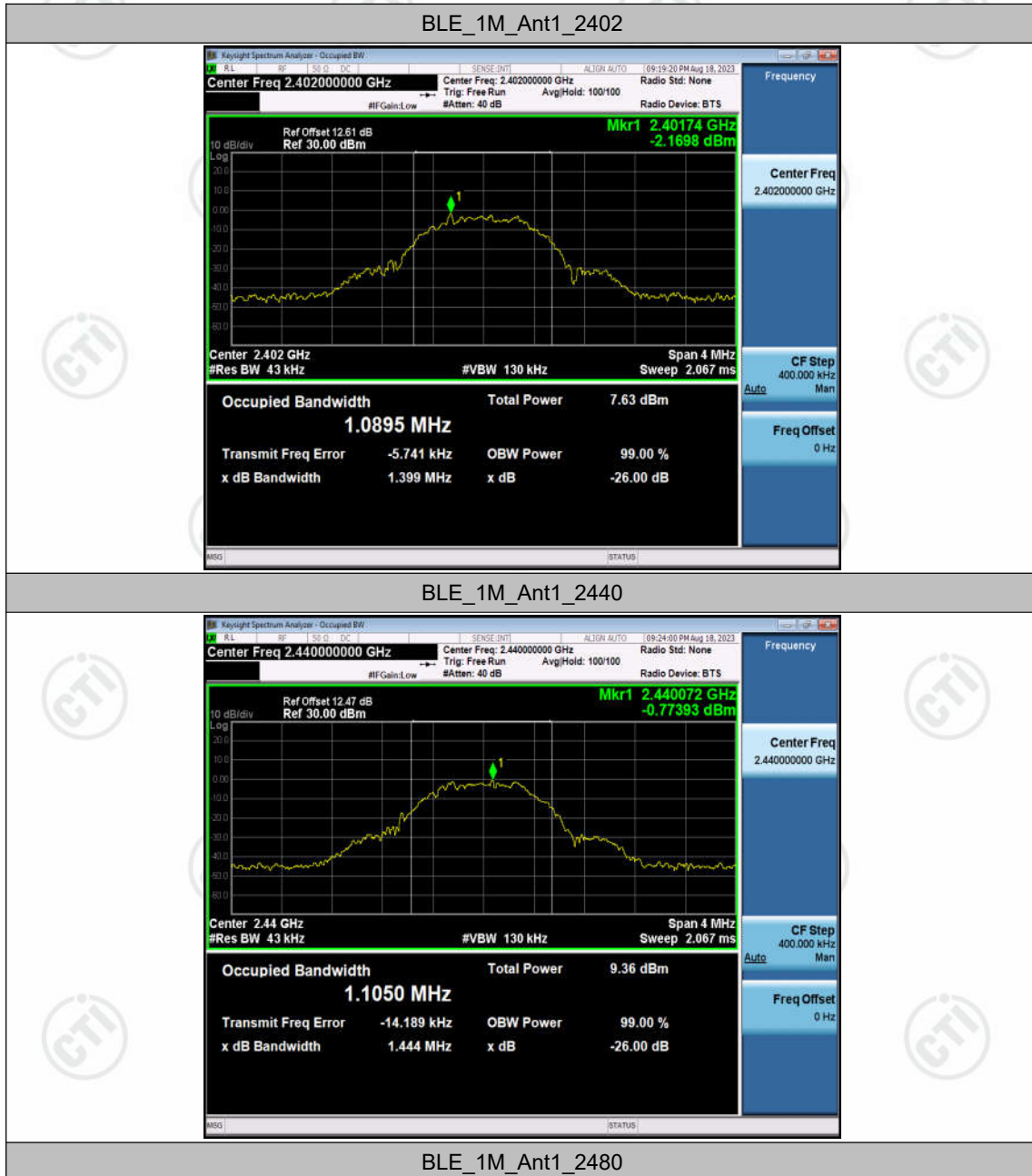


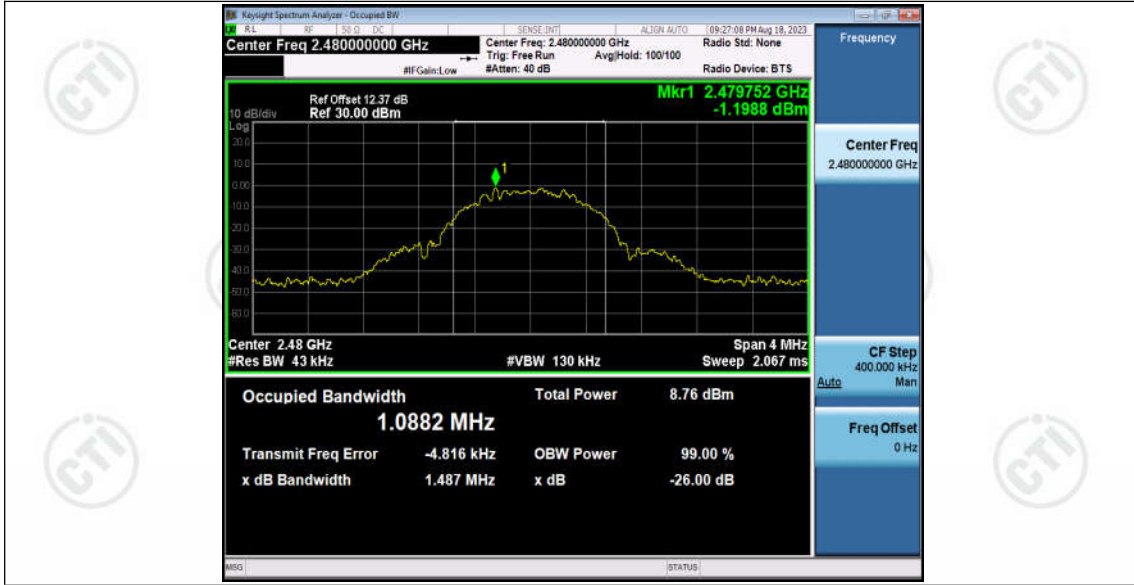
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0895	2401.4495	2402.5390	---	---
		2440	1.1050	2439.4333	2440.5383	---	---
		2480	1.0882	2479.4511	2480.5393	---	---

Test Graphs

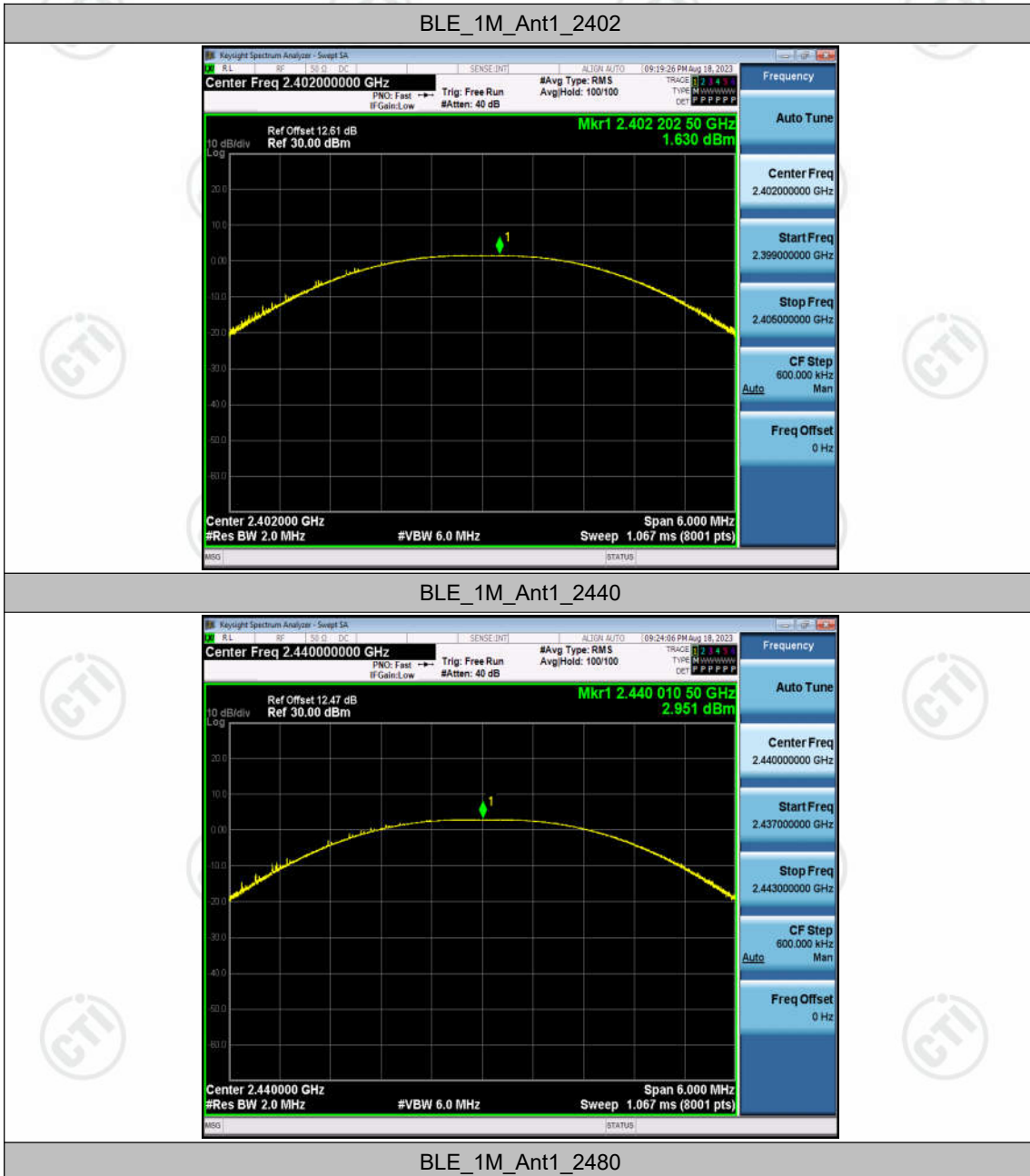


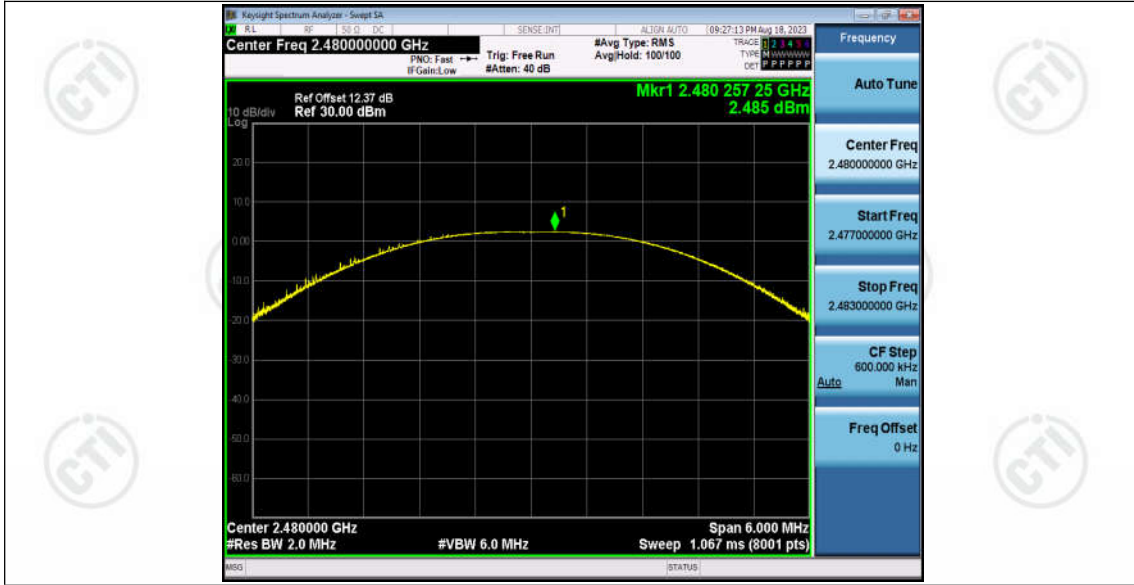


Appendix C: Maximum conducted output power**Test Result**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.63	≤30	PASS
		2440	2.95	≤30	PASS
		2480	2.49	≤30	PASS

Test Graphs

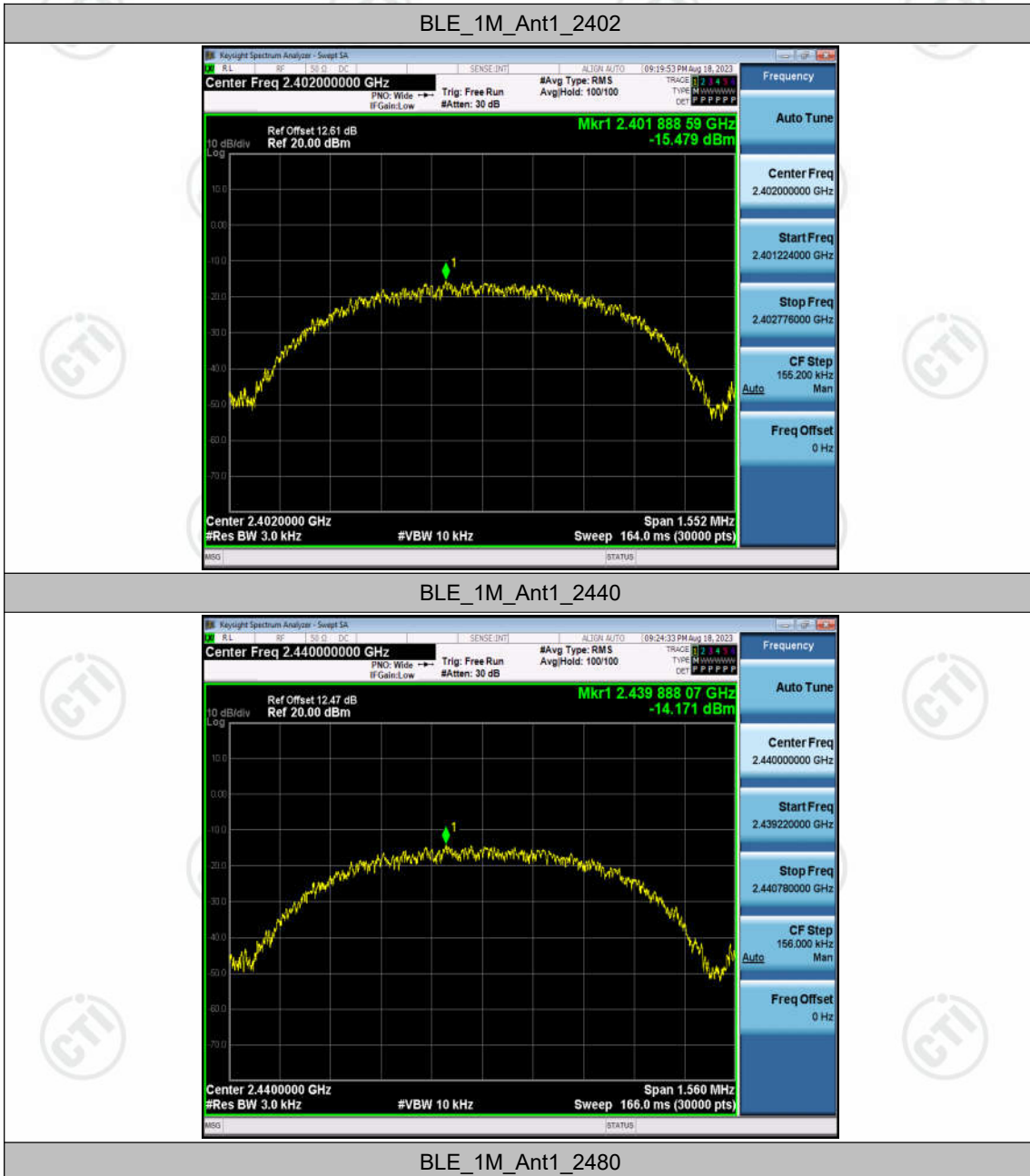




Appendix D: Maximum power spectral density**Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.48	≤8.00	PASS
		2440	-14.17	≤8.00	PASS
		2480	-14.73	≤8.00	PASS

Test Graphs

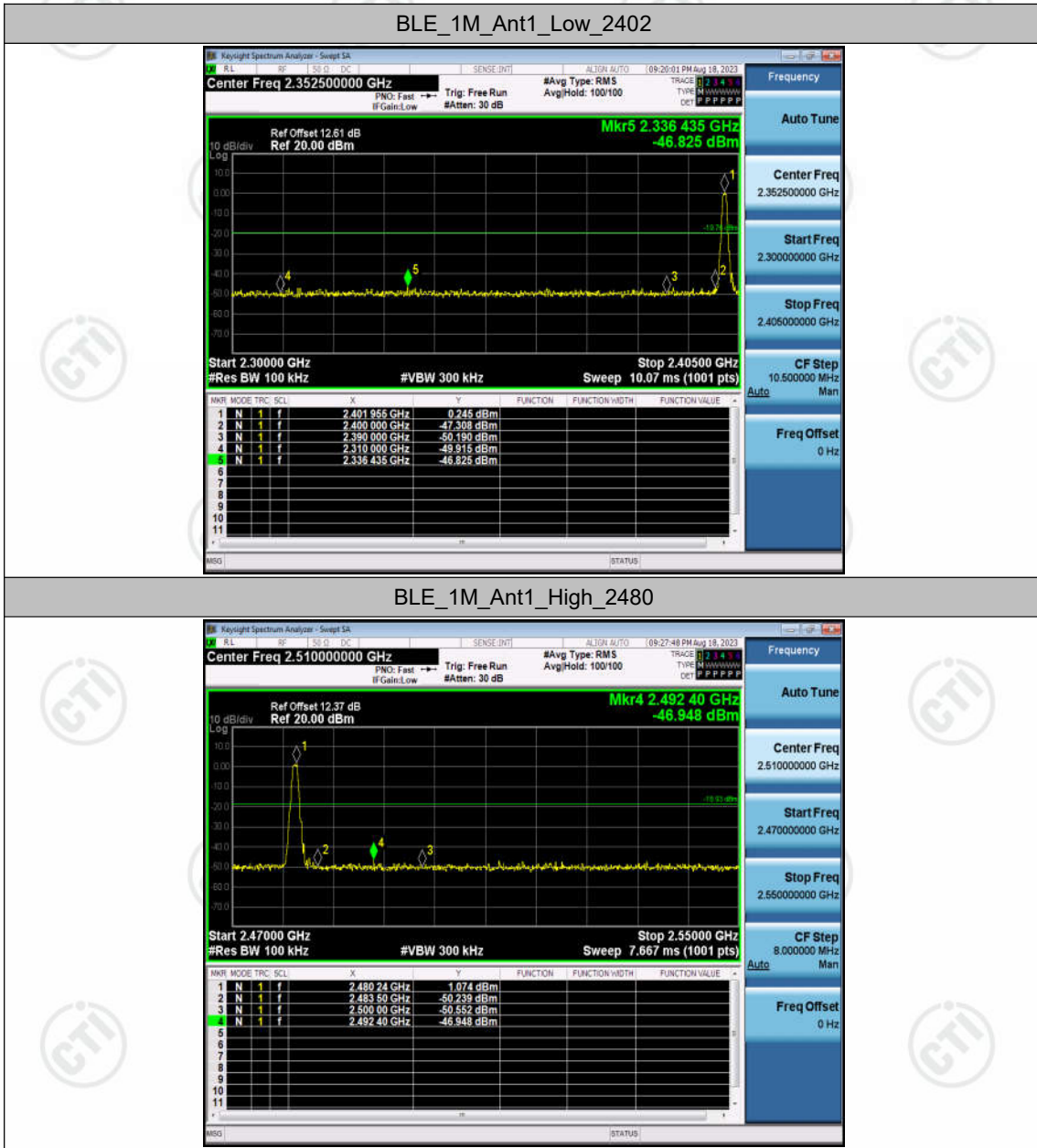




Appendix E: Band edge measurements**Test Result**

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.25	-46.83	≤-19.76	PASS
		High	2480	1.07	-46.95	≤-18.93	PASS

Test Graphs

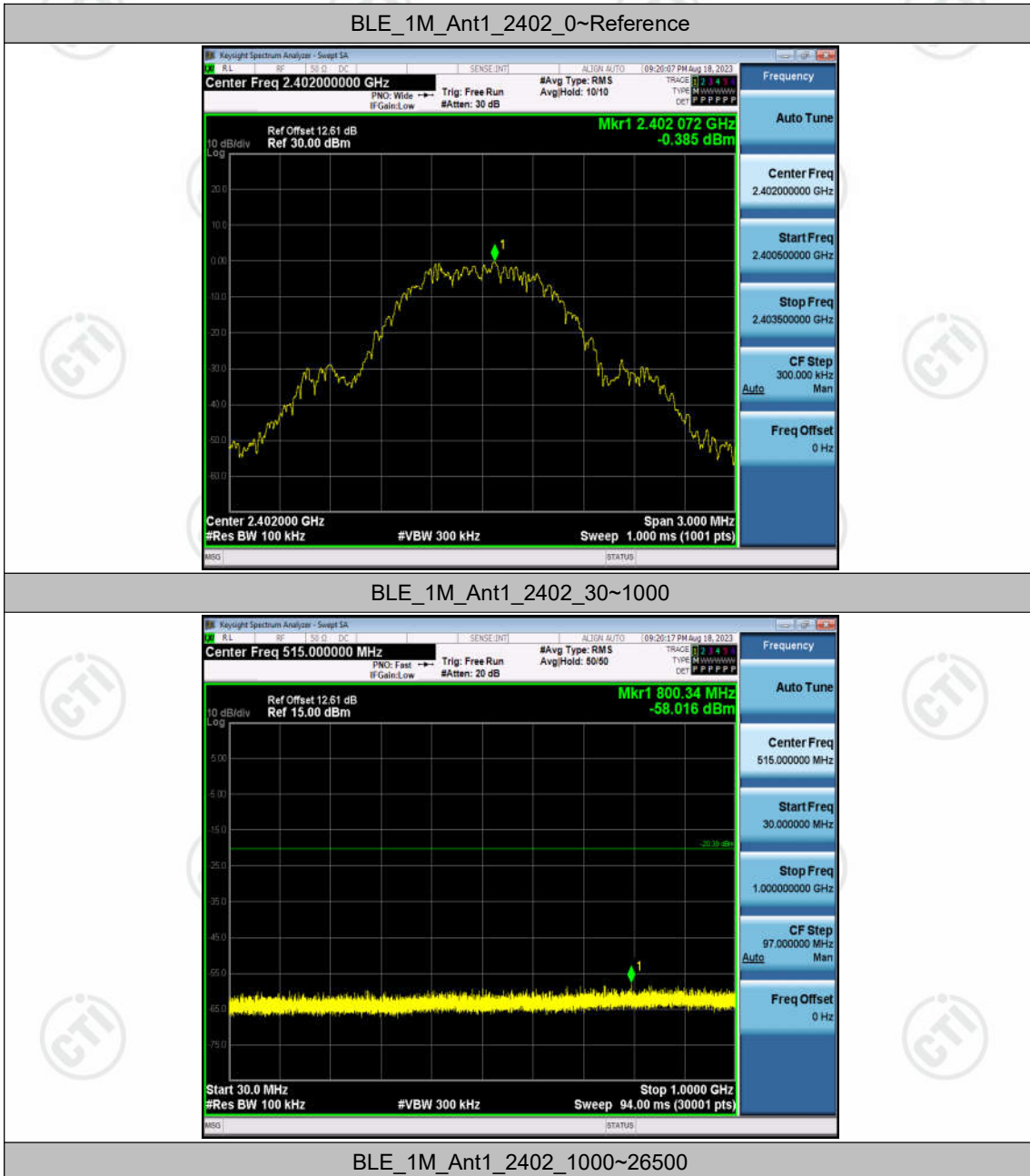


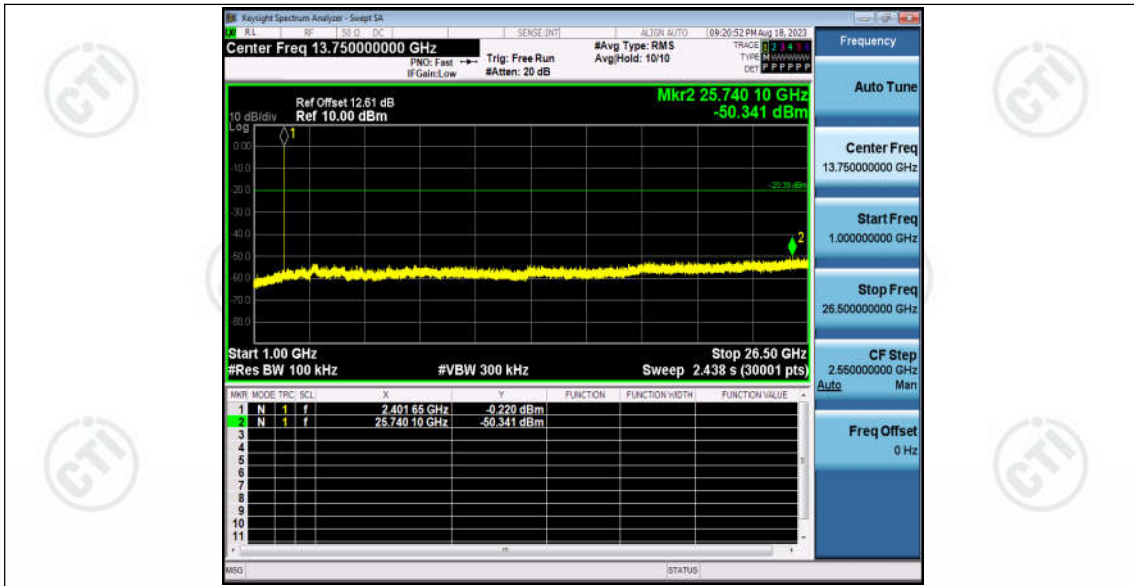
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-58.02	≤-20.39	PASS
			1000~26500	-0.39	-50.34	≤-20.39	PASS
		2440	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-58.67	≤-19.59	PASS
			1000~26500	0.41	-49.96	≤-19.59	PASS
		2480	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-58.33	≤-19.73	PASS
			1000~26500	0.27	-50.63	≤-19.73	PASS

Test Graphs





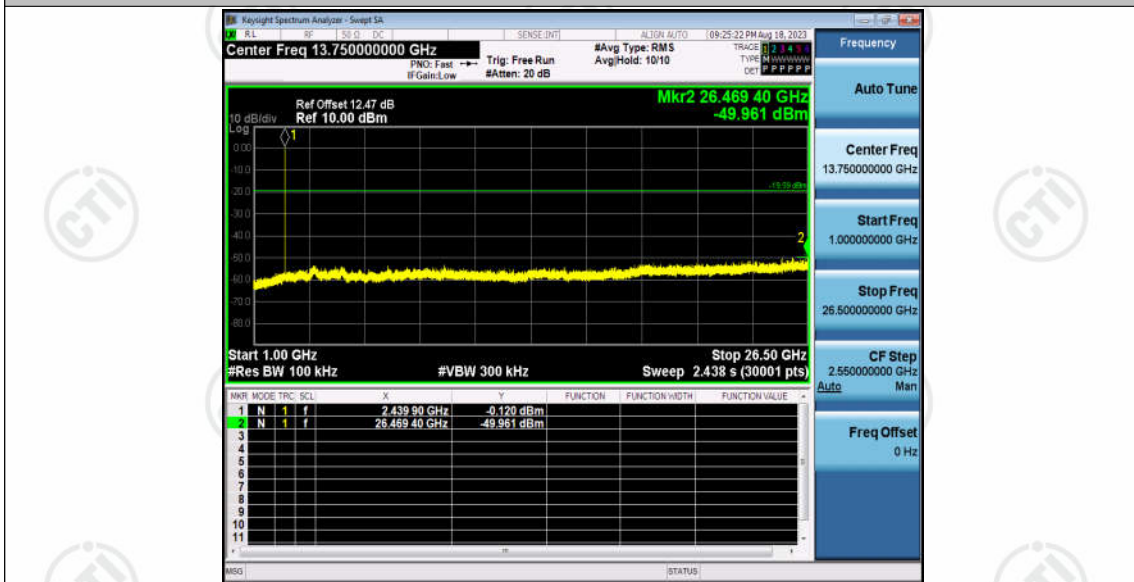
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



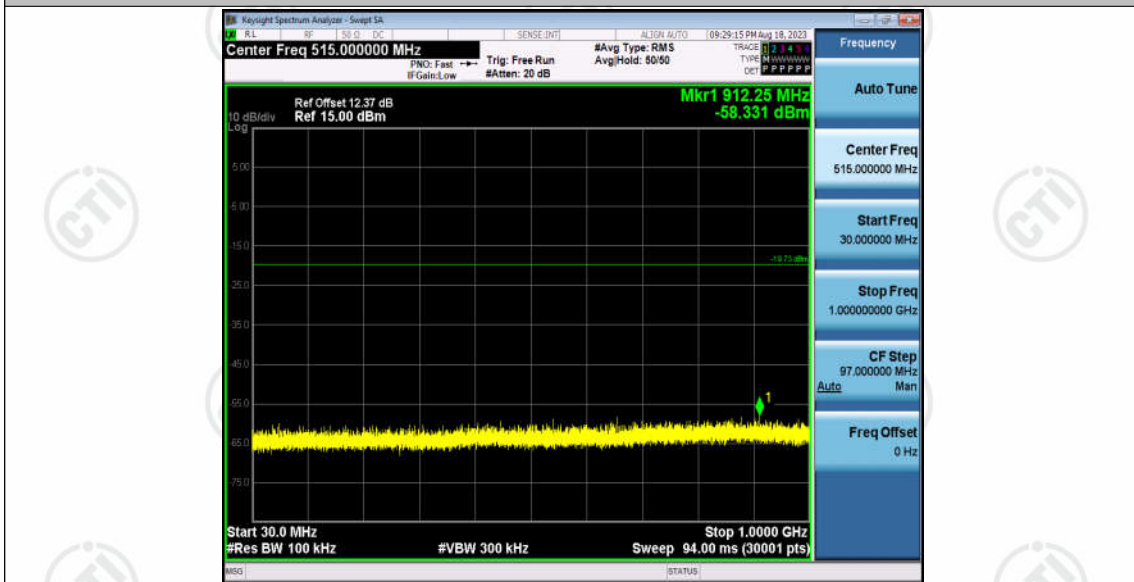
BLE_1M_Ant1_2440_1000~26500



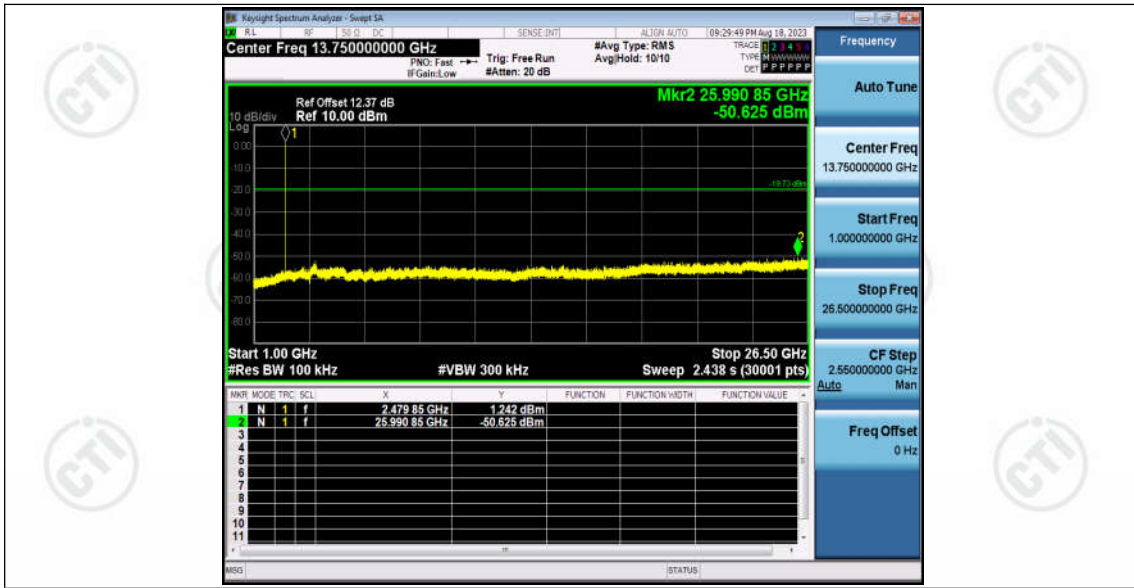
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

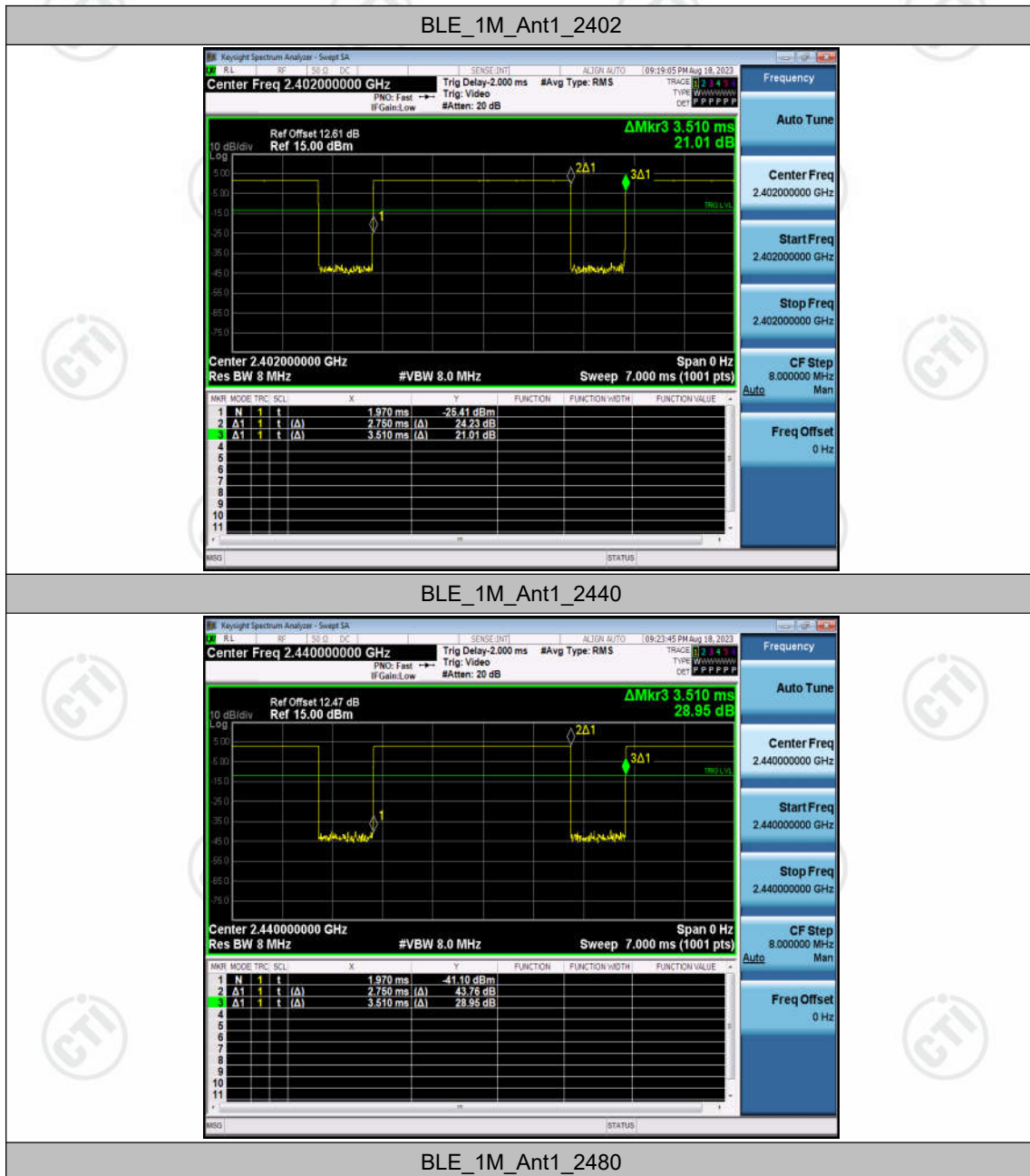


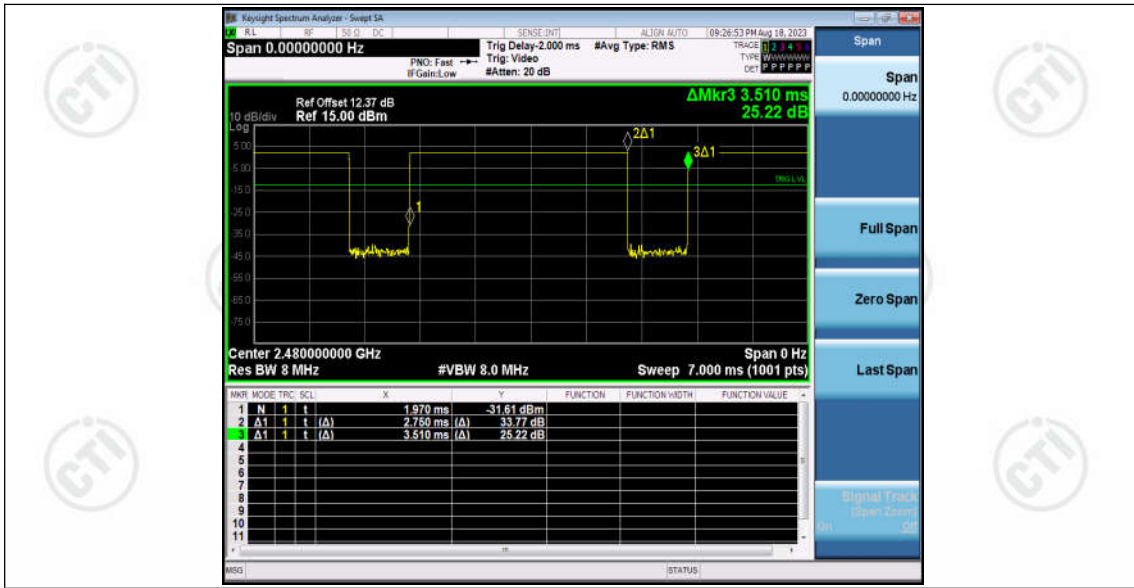
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.75	3.51	78.35	1.06
		2440	2.75	3.51	78.35	1.06
		2480	2.75	3.51	78.35	1.06

Test Graphs





*** End of Report ***