

Appendix: Bluetooth LE

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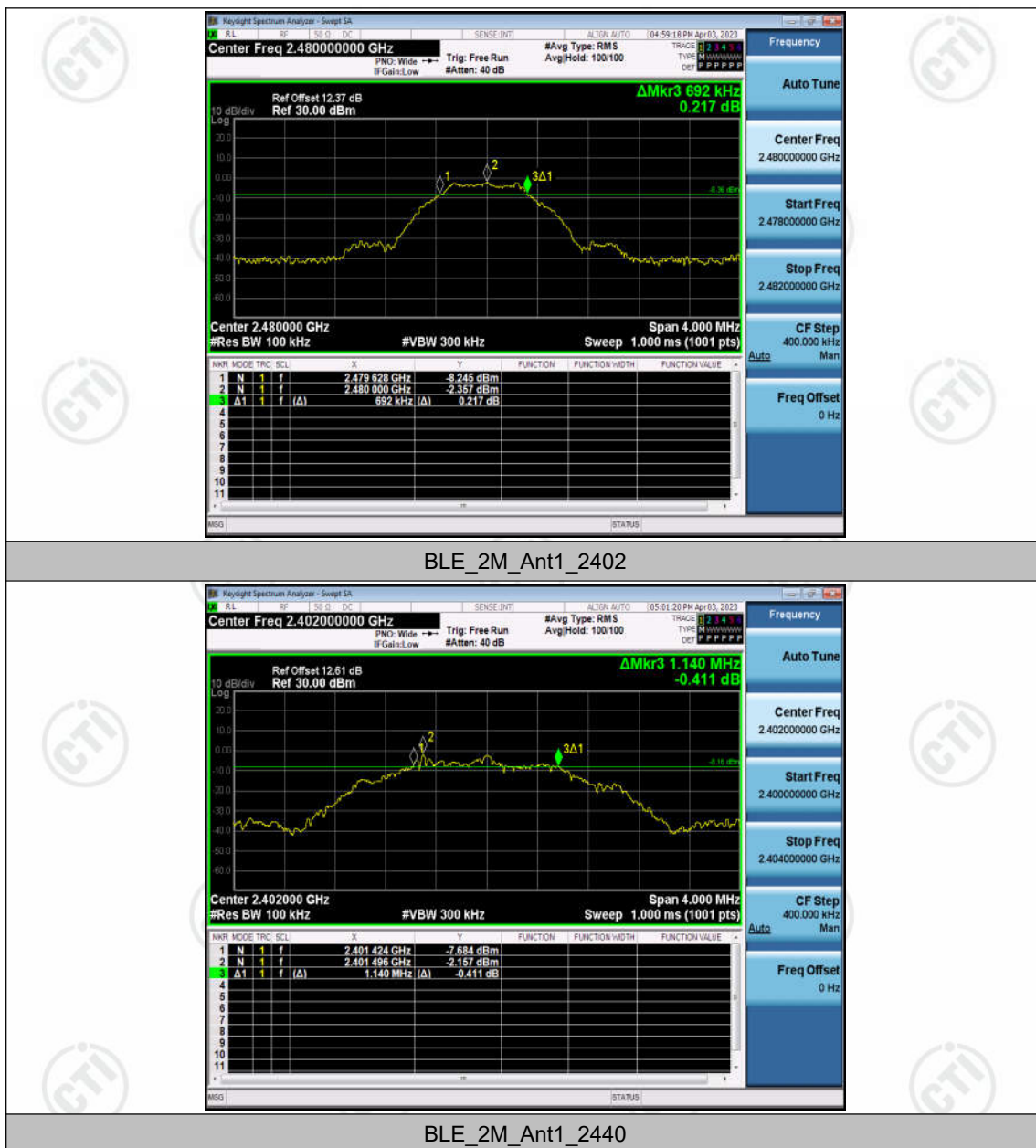
Appendix A: DTS Bandwidth

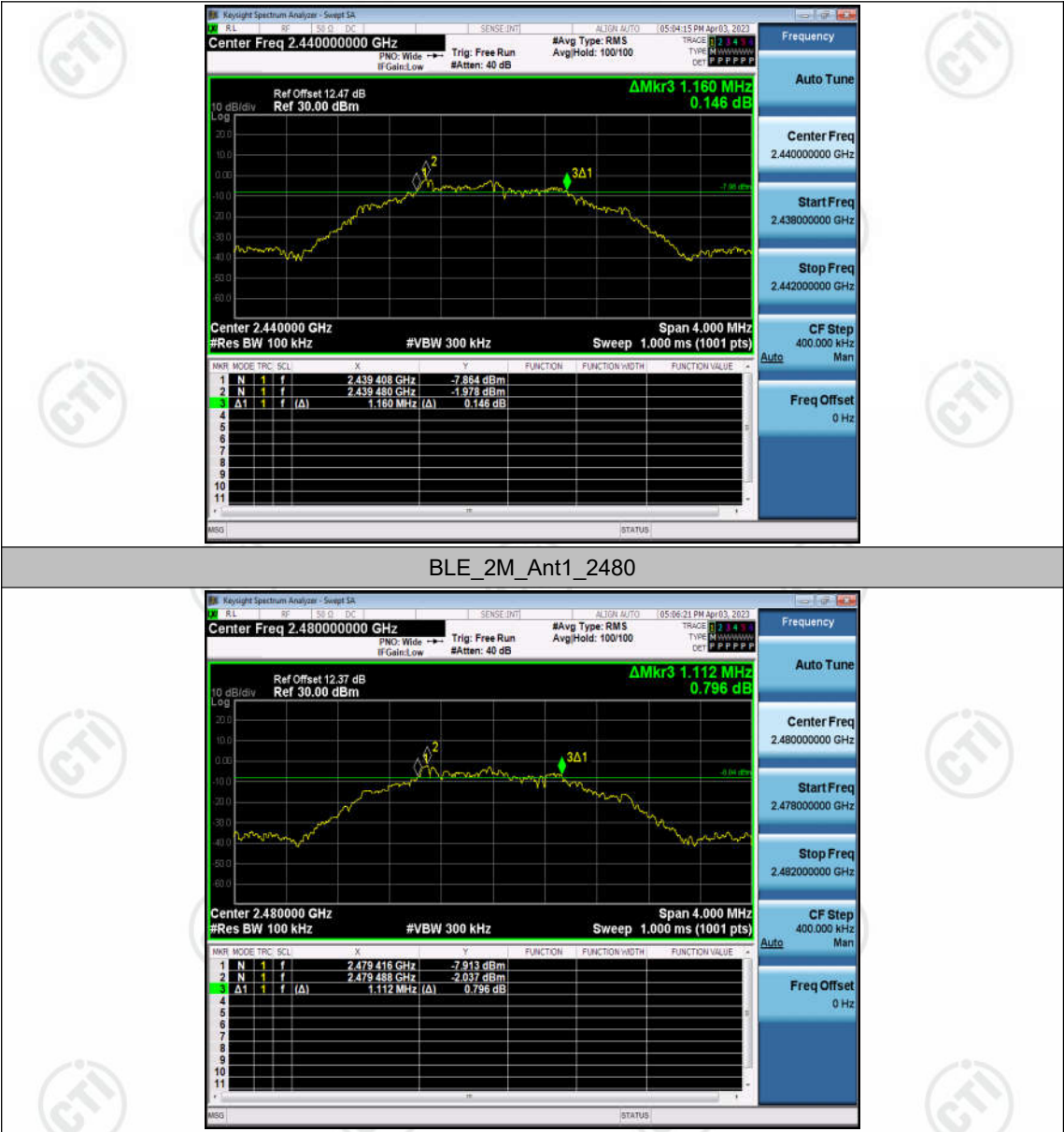
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.644	2402.328	0.5	PASS
		2440	0.700	2439.632	2440.332	0.5	PASS
		2480	0.692	2479.628	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.424	2402.564	0.5	PASS
		2440	1.160	2439.408	2440.568	0.5	PASS
		2480	1.112	2479.416	2480.528	0.5	PASS

Test Graphs





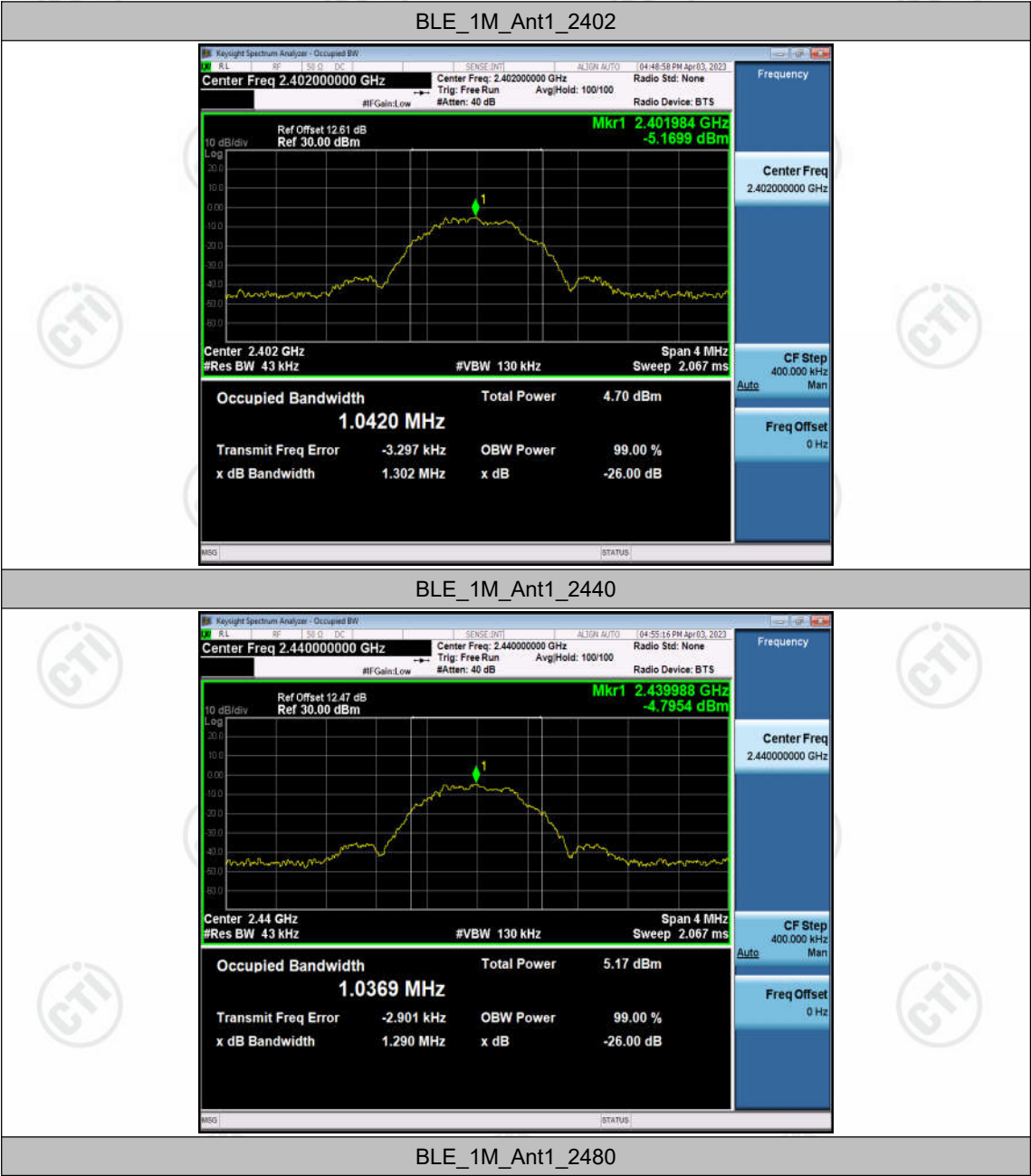


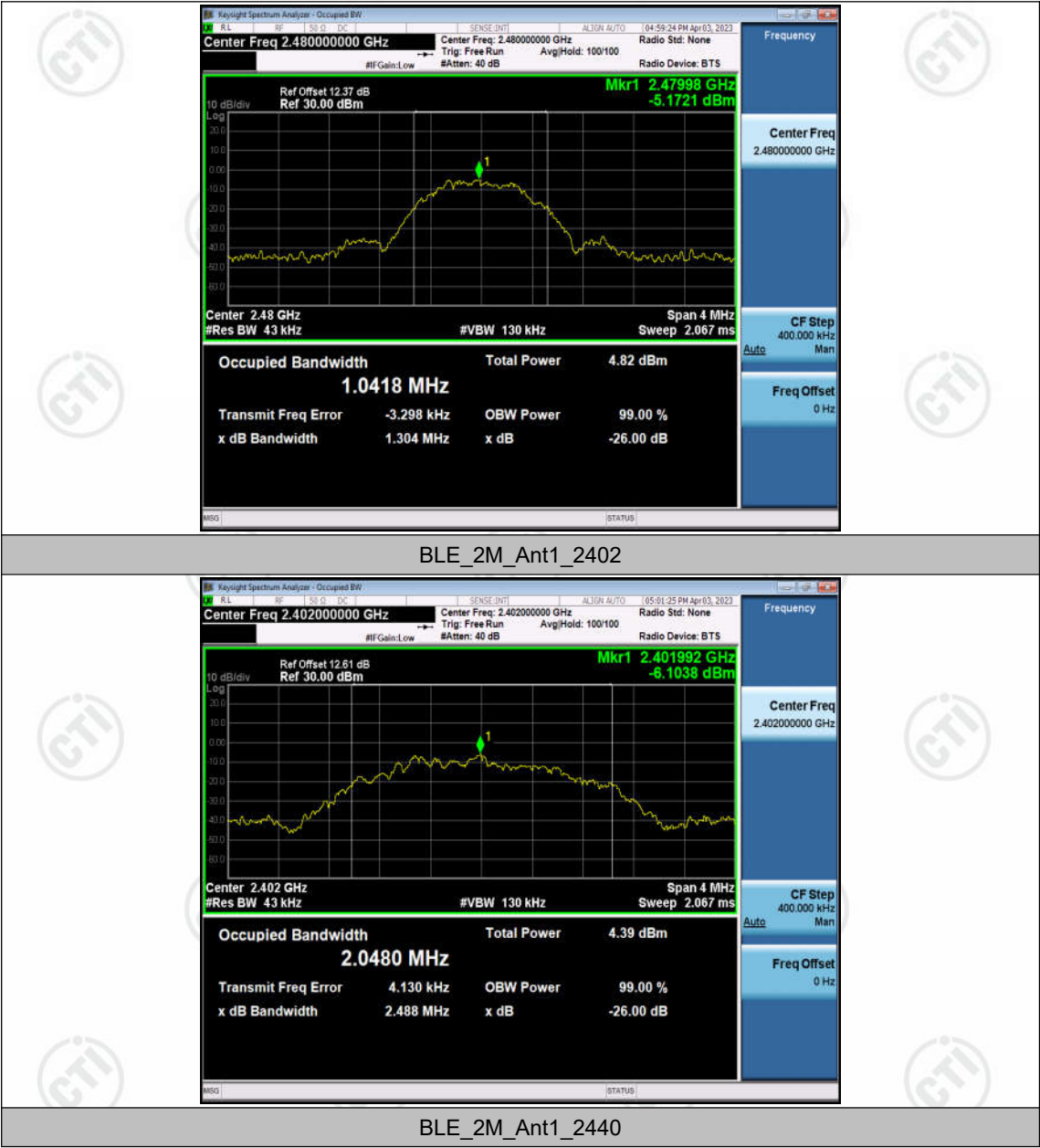
Appendix B: Occupied Channel Bandwidth

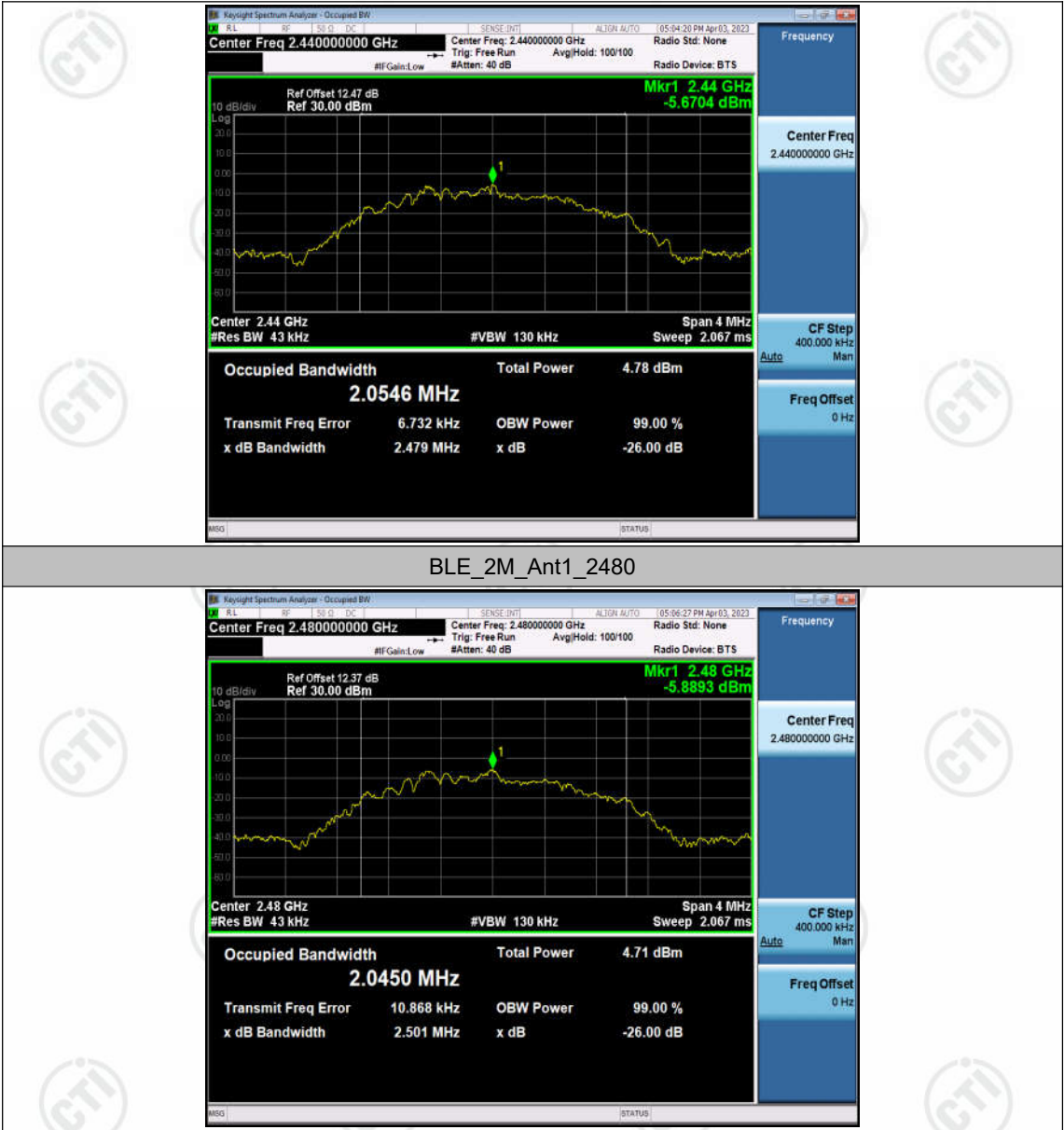
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0420	2401.4757	2402.5177	---	---
		2440	1.0369	2439.4787	2440.5156	---	---
		2480	1.0418	2479.4758	2480.5176	---	---
BLE_2M	Ant1	2402	2.0480	2400.9801	2403.0281	---	---
		2440	2.0546	2438.9794	2441.0340	---	---
		2480	2.0450	2478.9884	2481.0334	---	---

Test Graphs





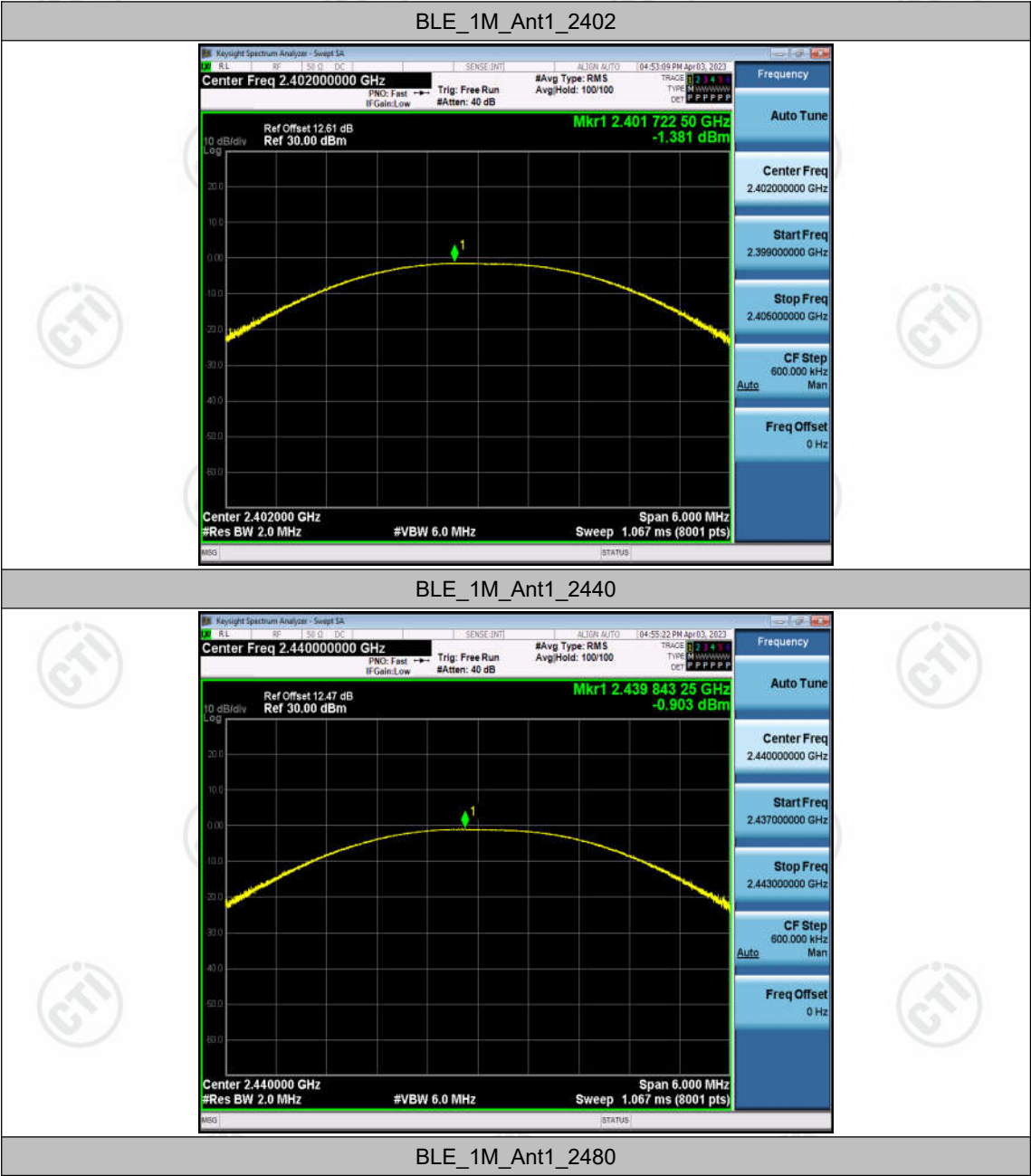


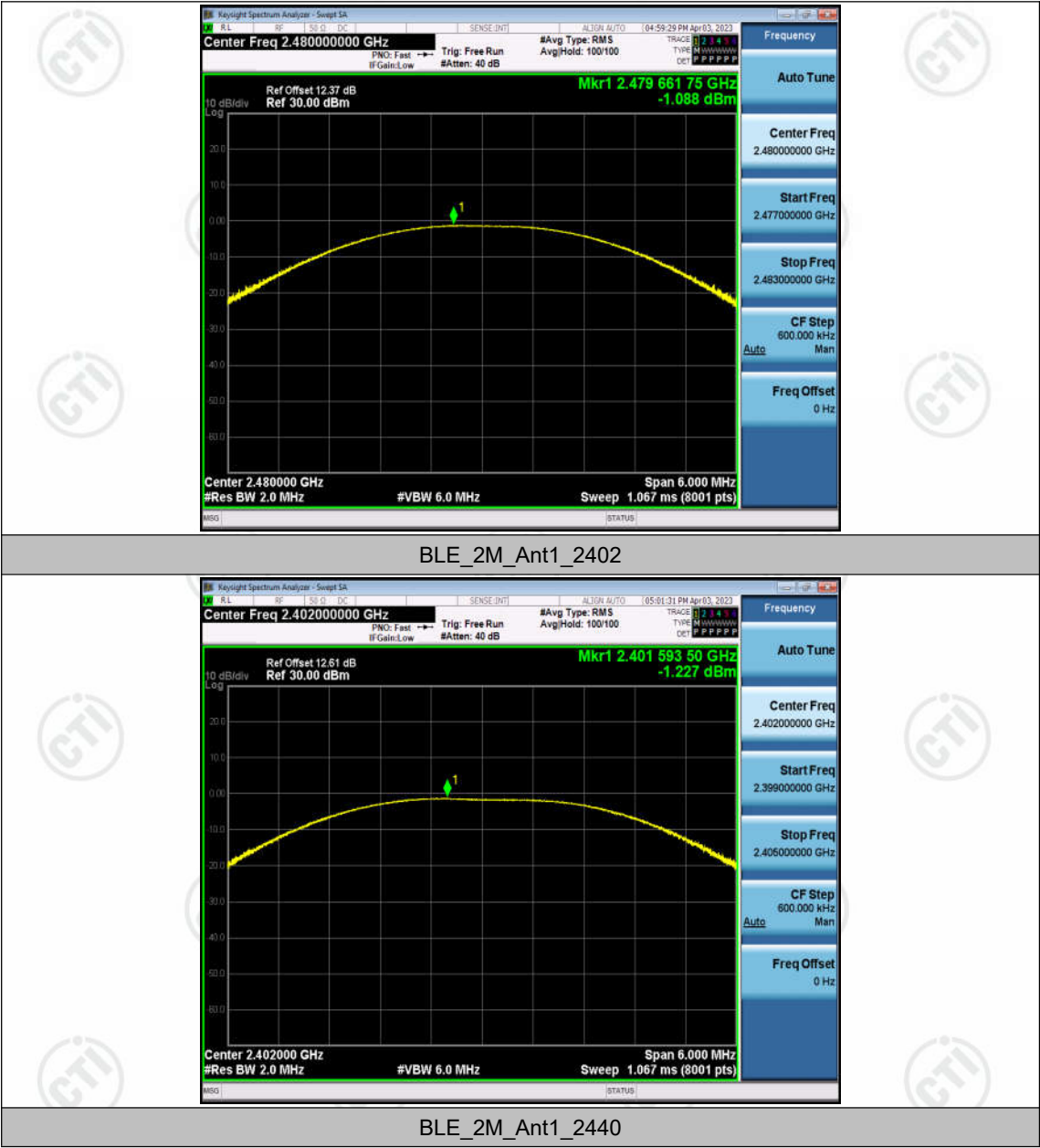
Appendix C: Maximum conducted output power

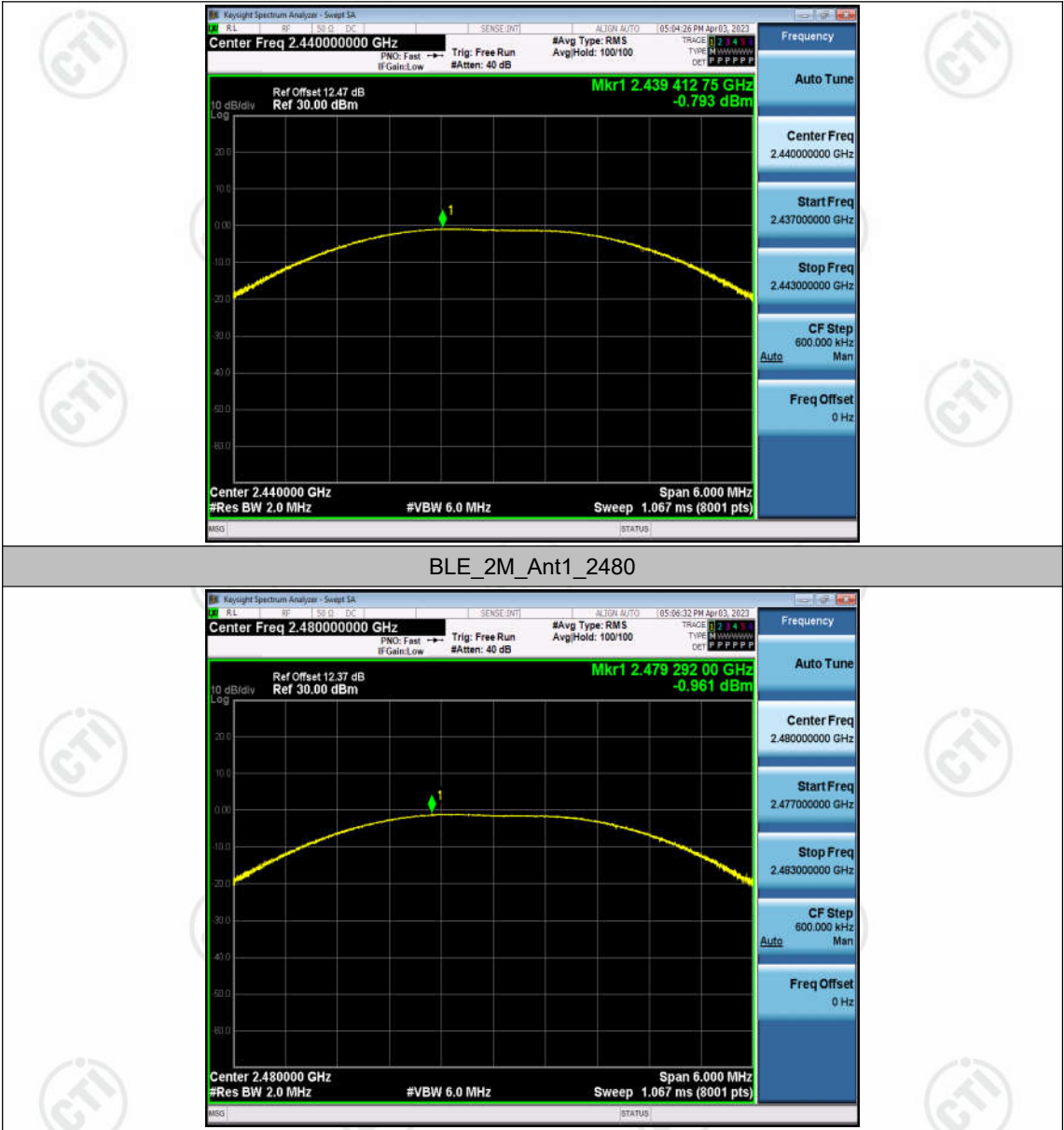
Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.38	≤30	PASS
		2440	-0.9	≤30	PASS
		2480	-1.09	≤30	PASS
BLE_2M	Ant1	2402	-1.23	≤30	PASS
		2440	-0.79	≤30	PASS
		2480	-0.96	≤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	-16.72	≤8.00	PASS
		2440	-16.11	≤8.00	PASS
		2480	-16.28	≤8.00	PASS
BLE_2M	Ant1	2402	-19.1	≤8.00	PASS
		2440	-18.71	≤8.00	PASS
		2480	-18.91	≤8.00	PASS

Test Graphs

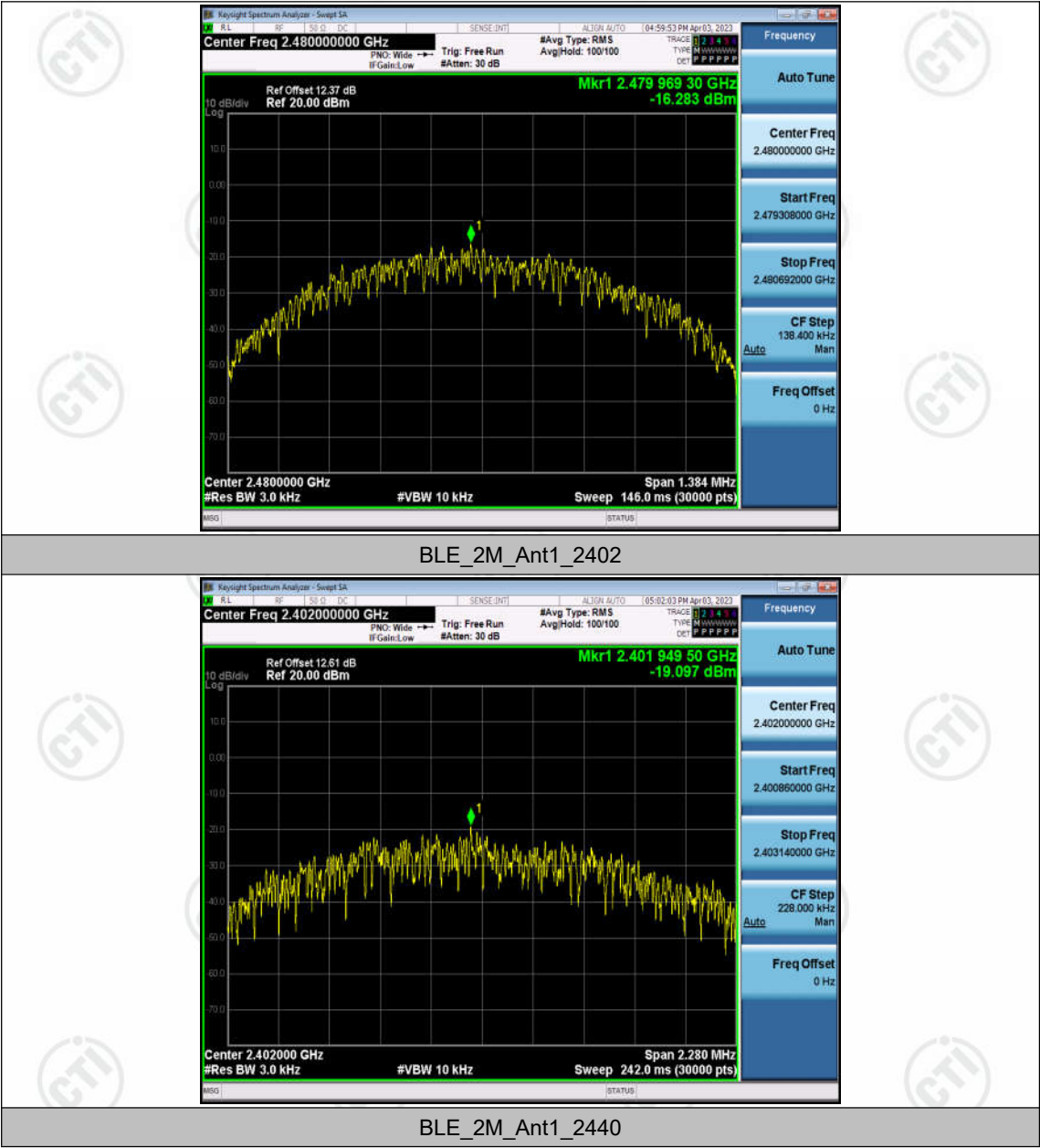
BLE_1M_Ant1_2402

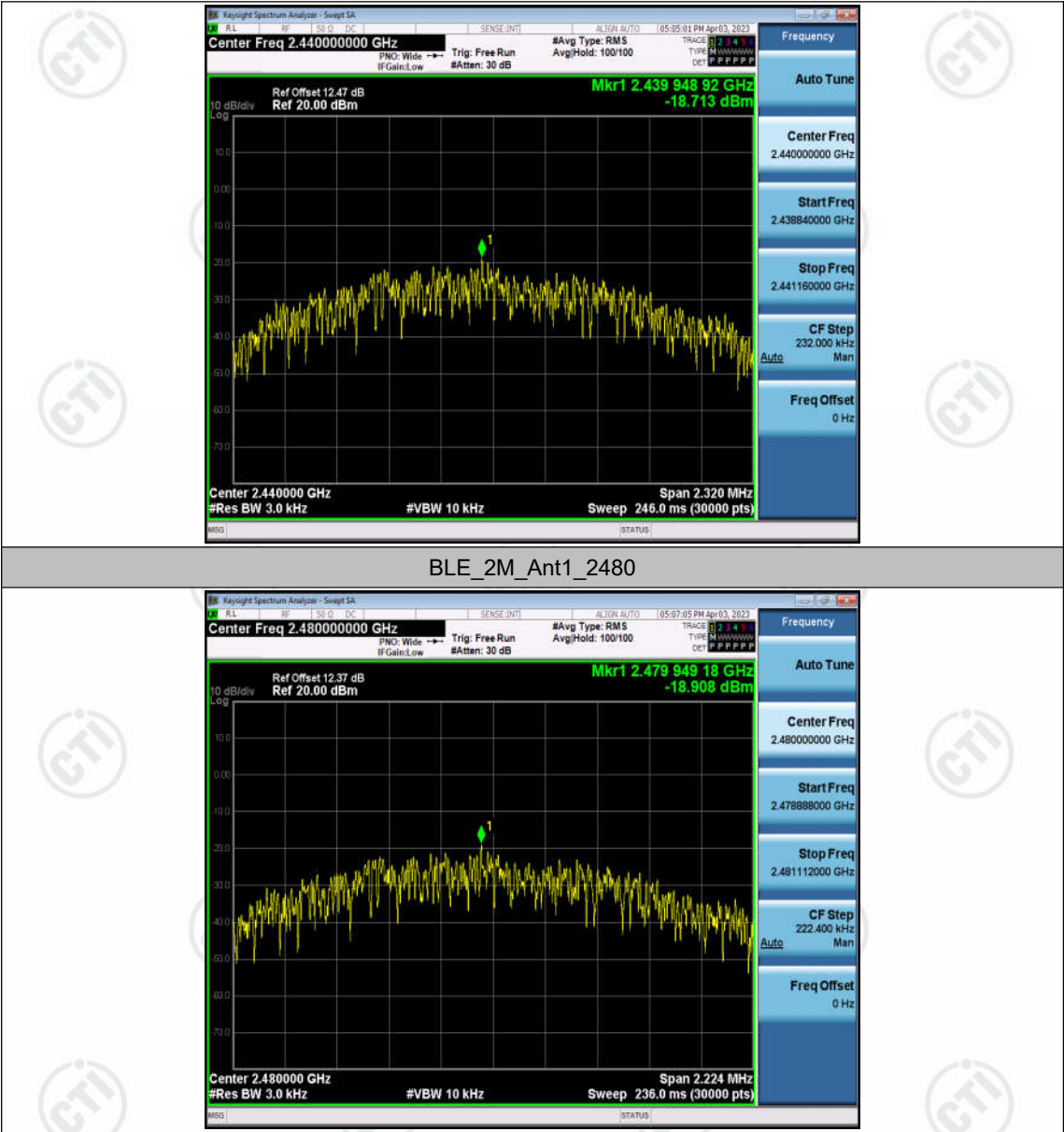


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



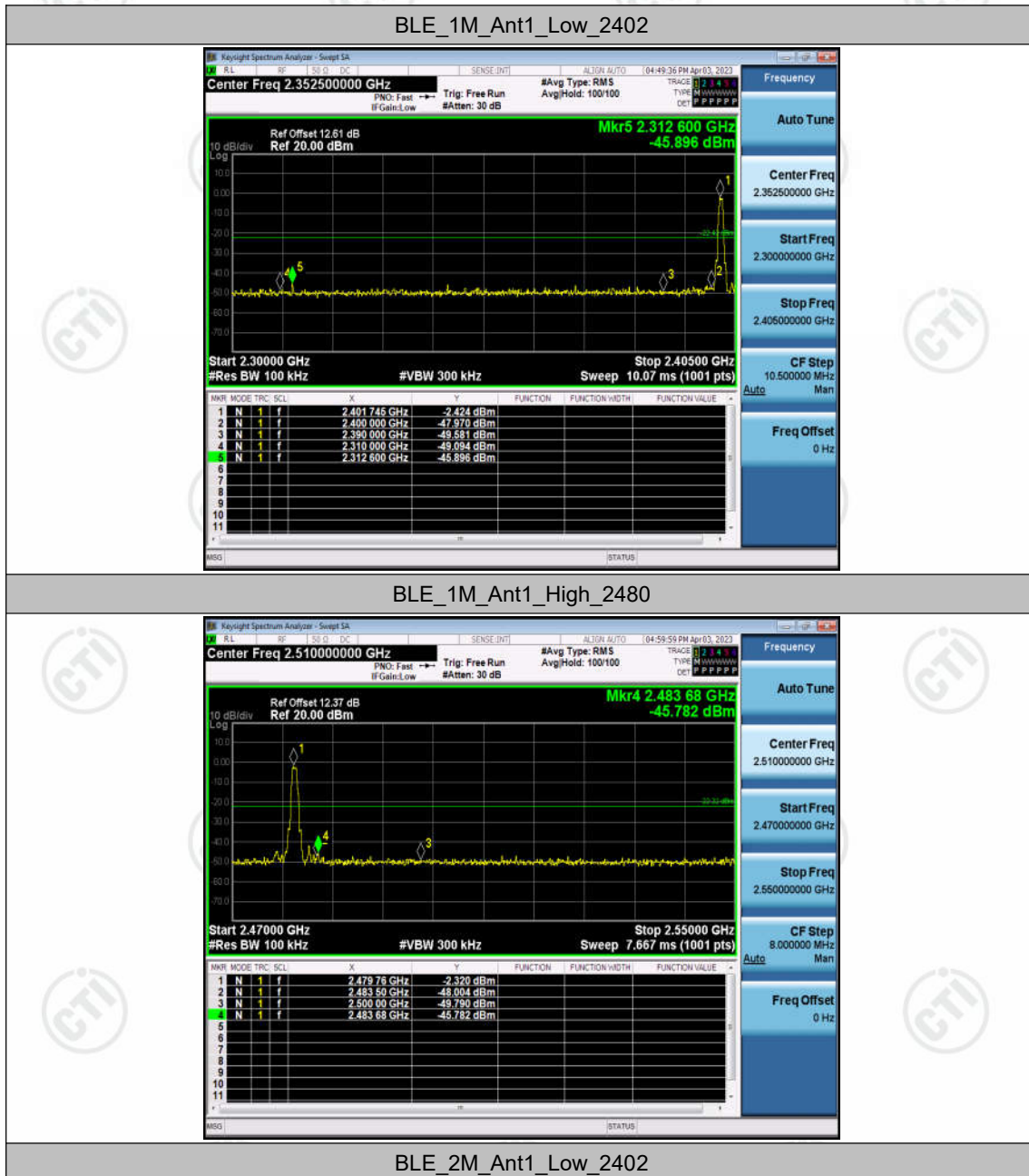


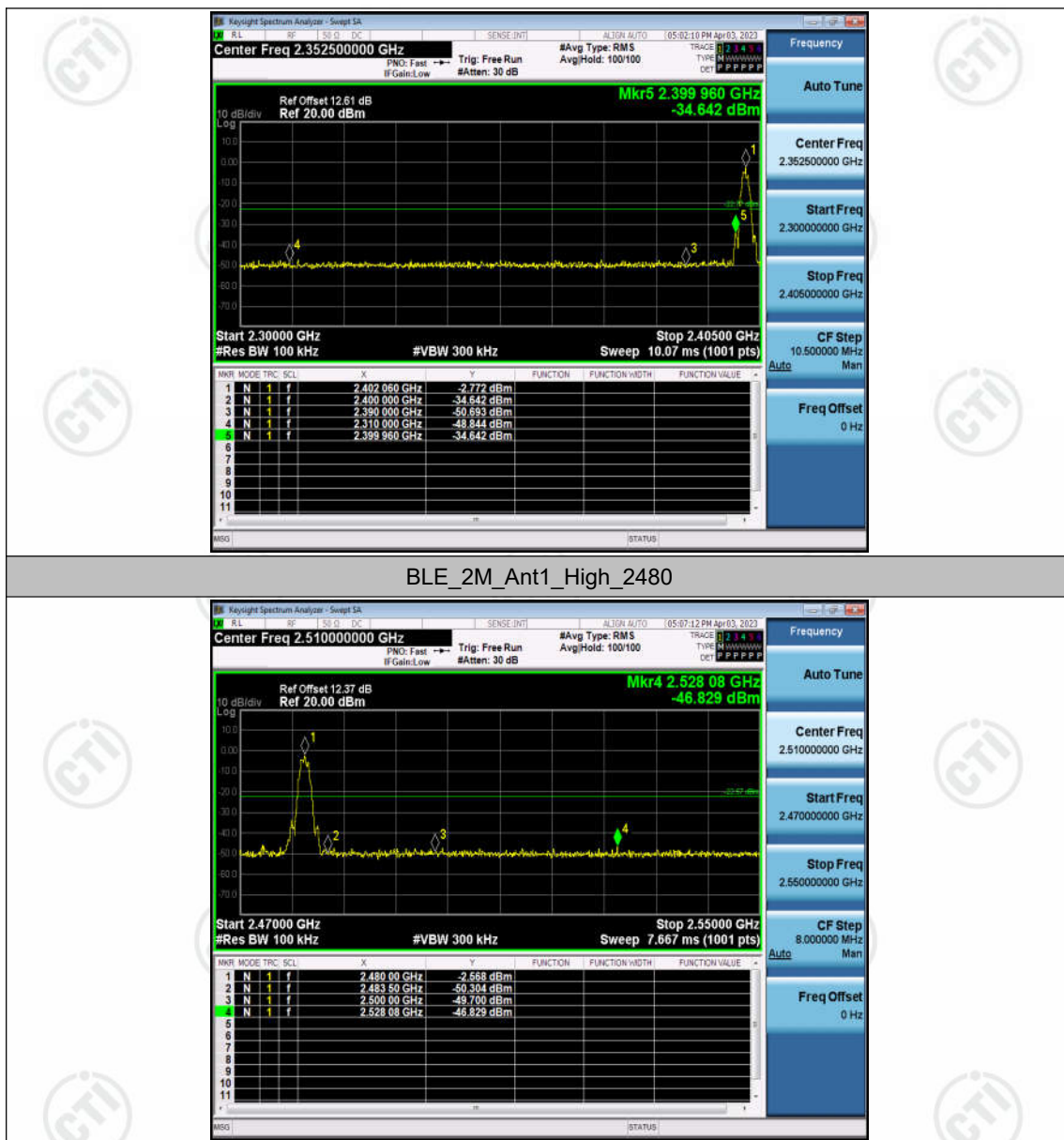
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.42	-45.9	≤-22.42	PASS
		High	2480	-2.32	-45.78	≤-22.32	PASS
BLE_2M	Ant1	Low	2402	-2.77	-34.64	≤-22.77	PASS
		High	2480	-2.57	-46.83	≤-22.57	PASS

Test Graphs



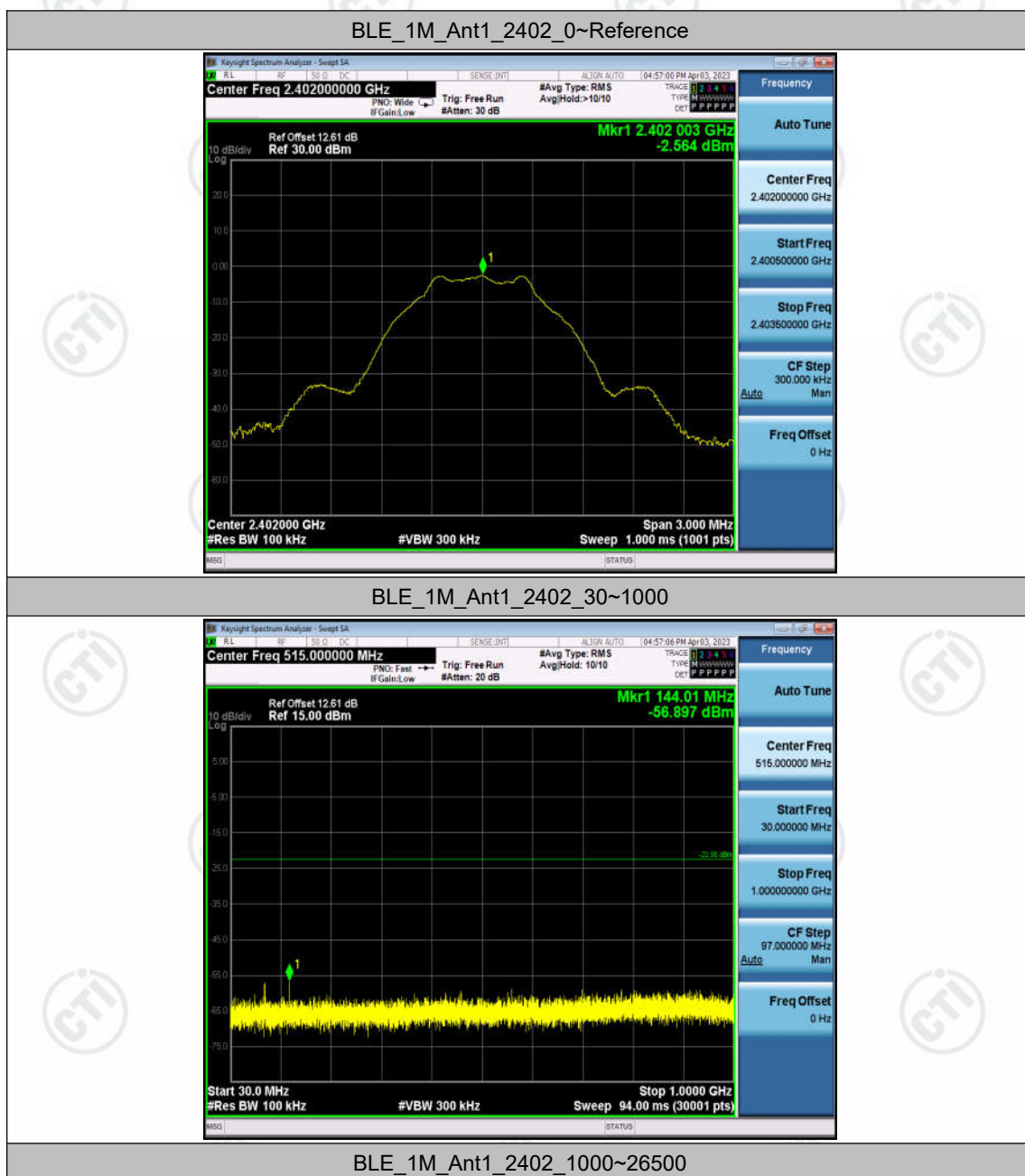


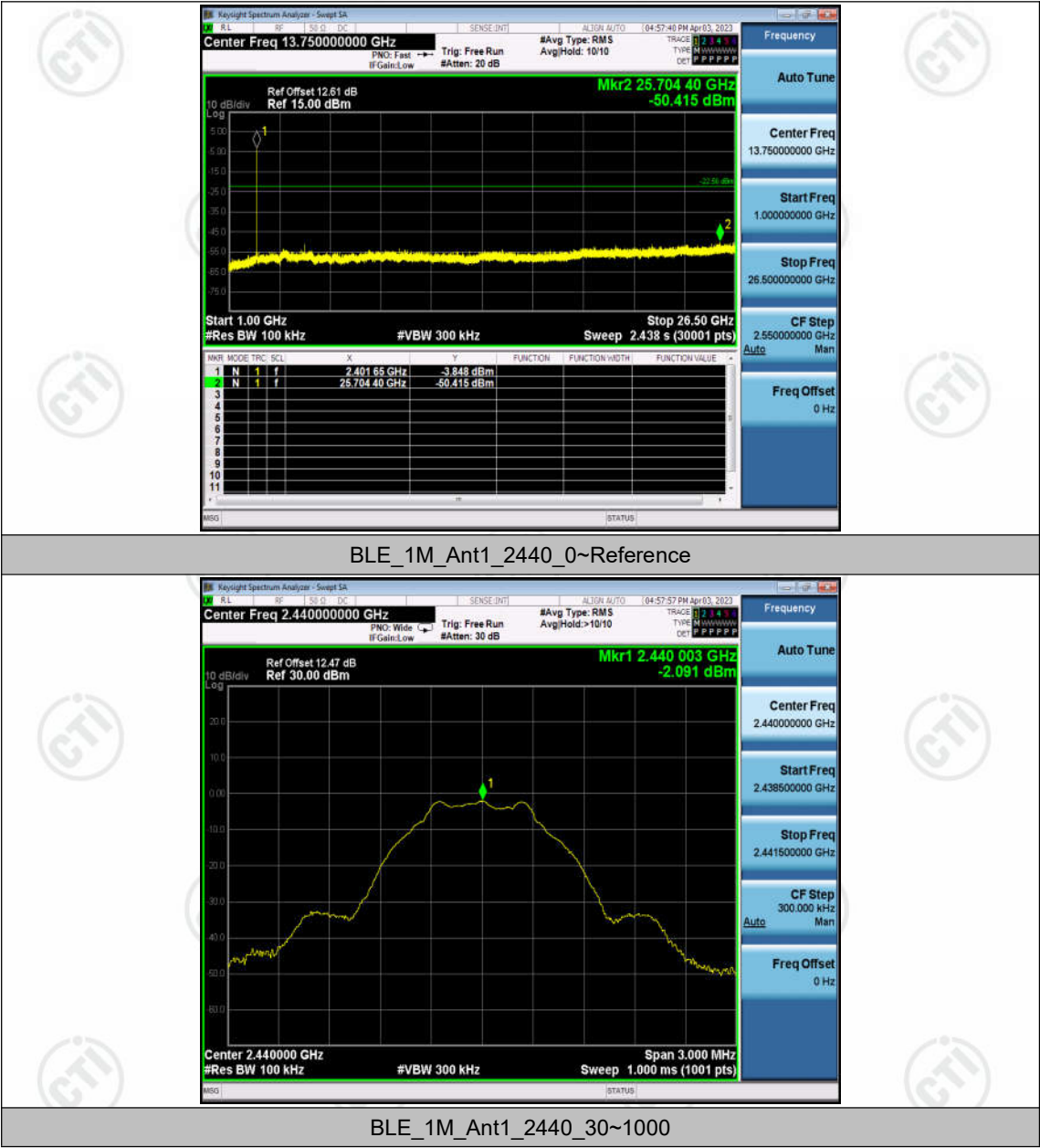
Appendix F: Conducted Spurious Emission

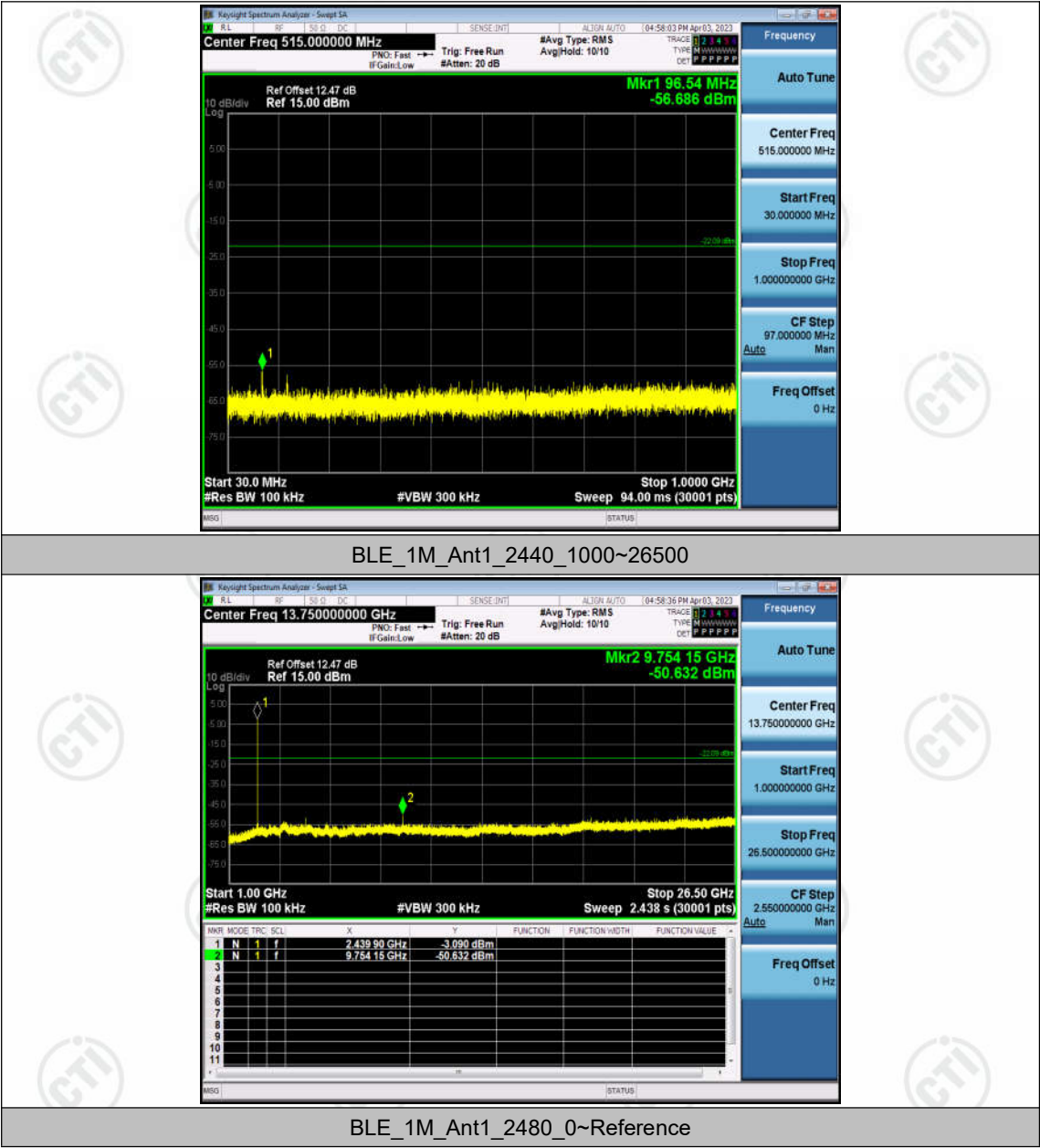
Test Result

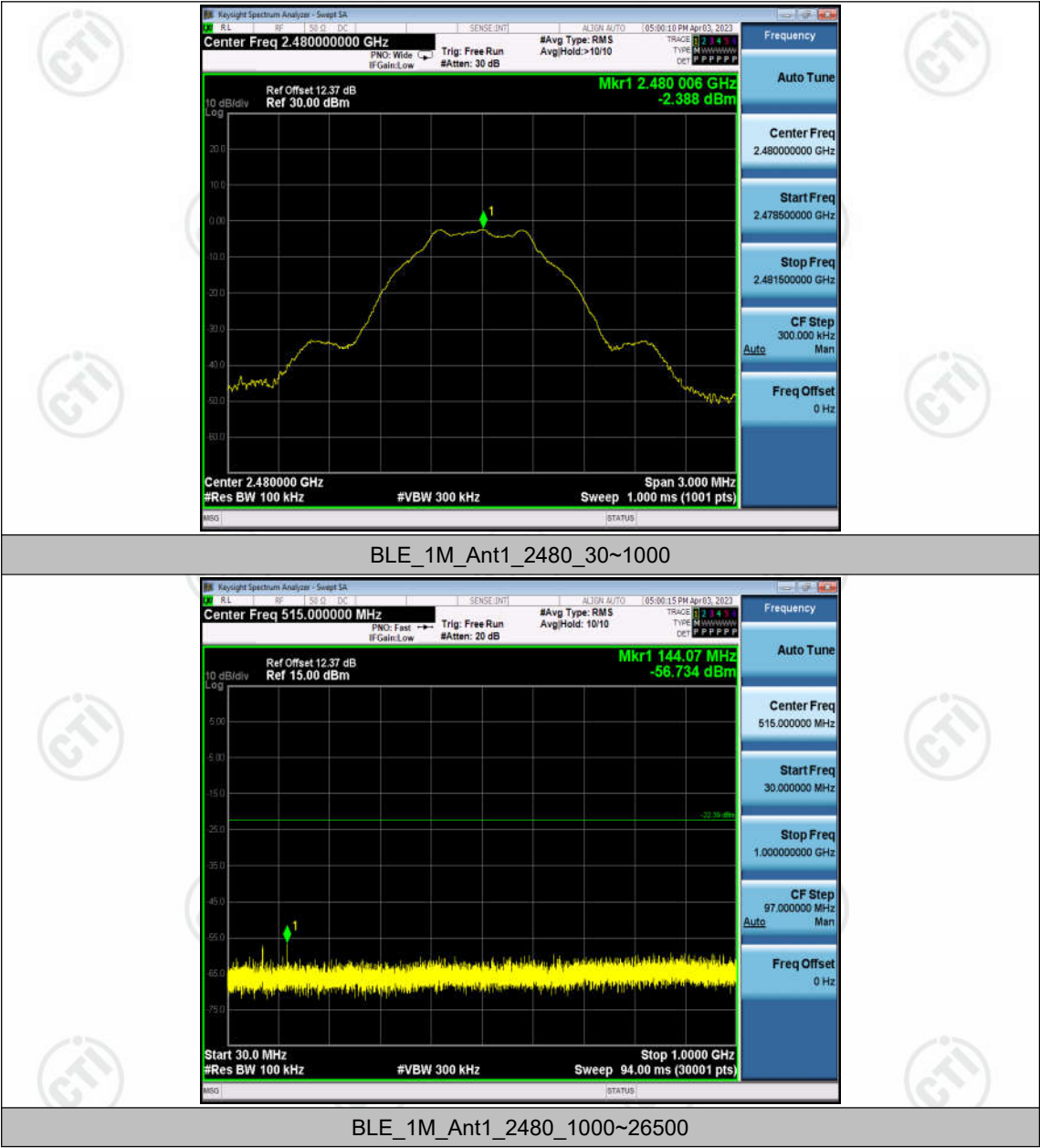
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-56.9	≤-22.56	PASS
			1000~26500	-2.56	-50.42	≤-22.56	PASS
		2440	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-56.69	≤-22.09	PASS
			1000~26500	-2.09	-50.63	≤-22.09	PASS
		2480	Reference	-2.39	-2.39	---	PASS
			30~1000	-2.39	-56.73	≤-22.39	PASS
			1000~26500	-2.39	-49.26	≤-22.39	PASS
BLE_2M	Ant1	2402	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-56.91	≤-22.21	PASS
			1000~26500	-2.21	-50.66	≤-22.21	PASS
		2440	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-54.94	≤-21.76	PASS
			1000~26500	-1.76	-50.59	≤-21.76	PASS
		2480	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-58.04	≤-22.01	PASS
			1000~26500	-2.01	-50.2	≤-22.01	PASS

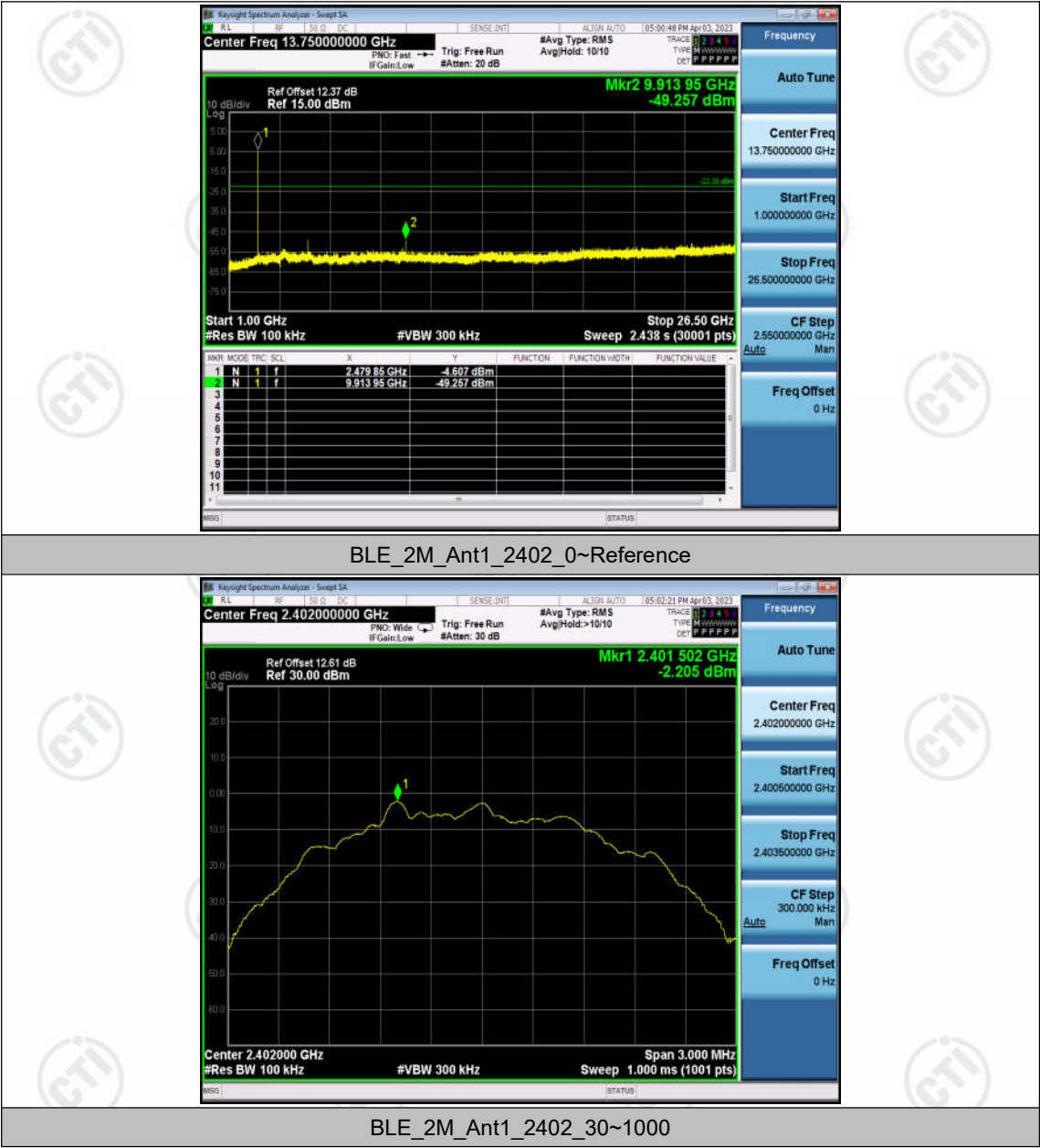
Test Graphs

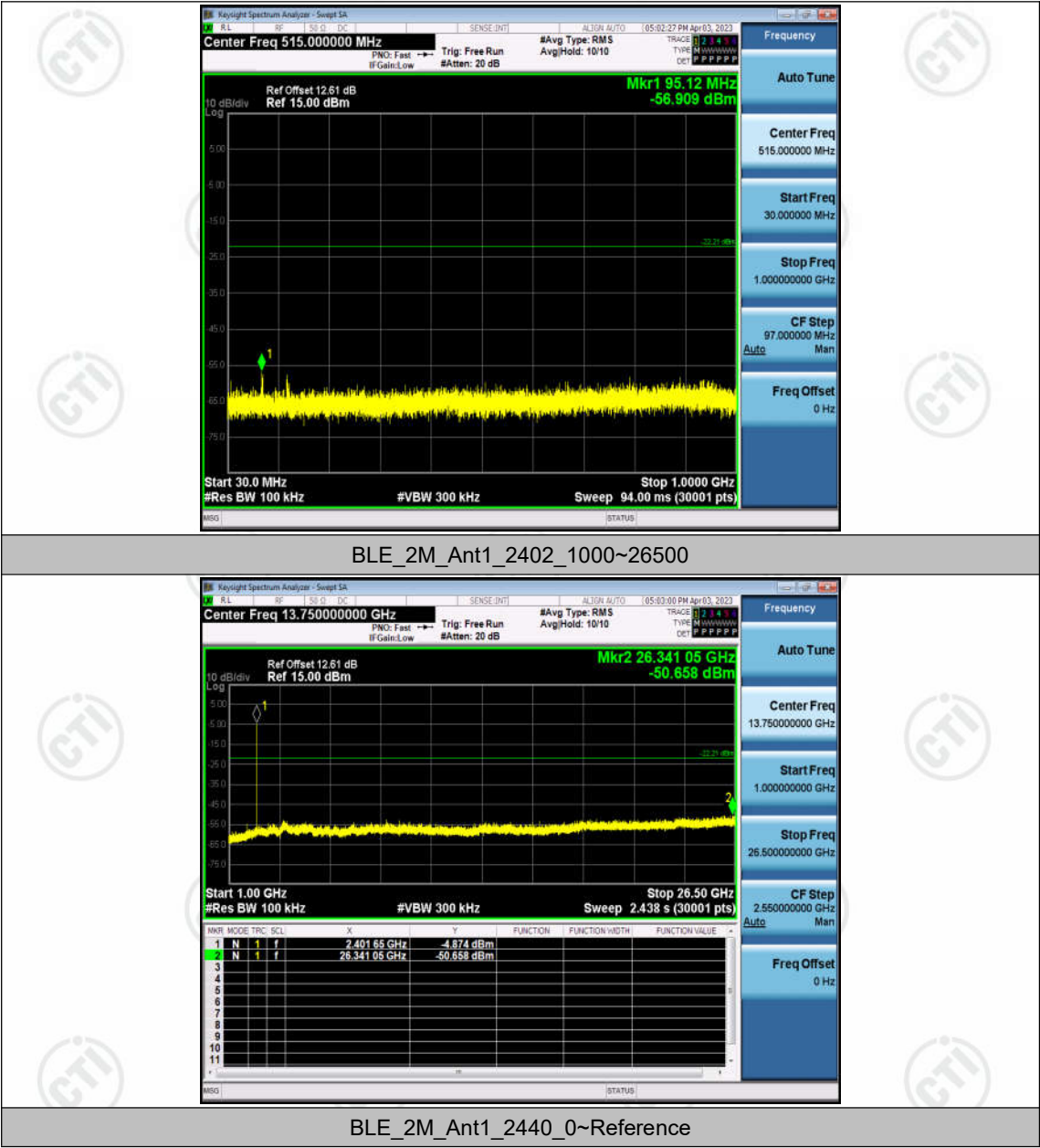


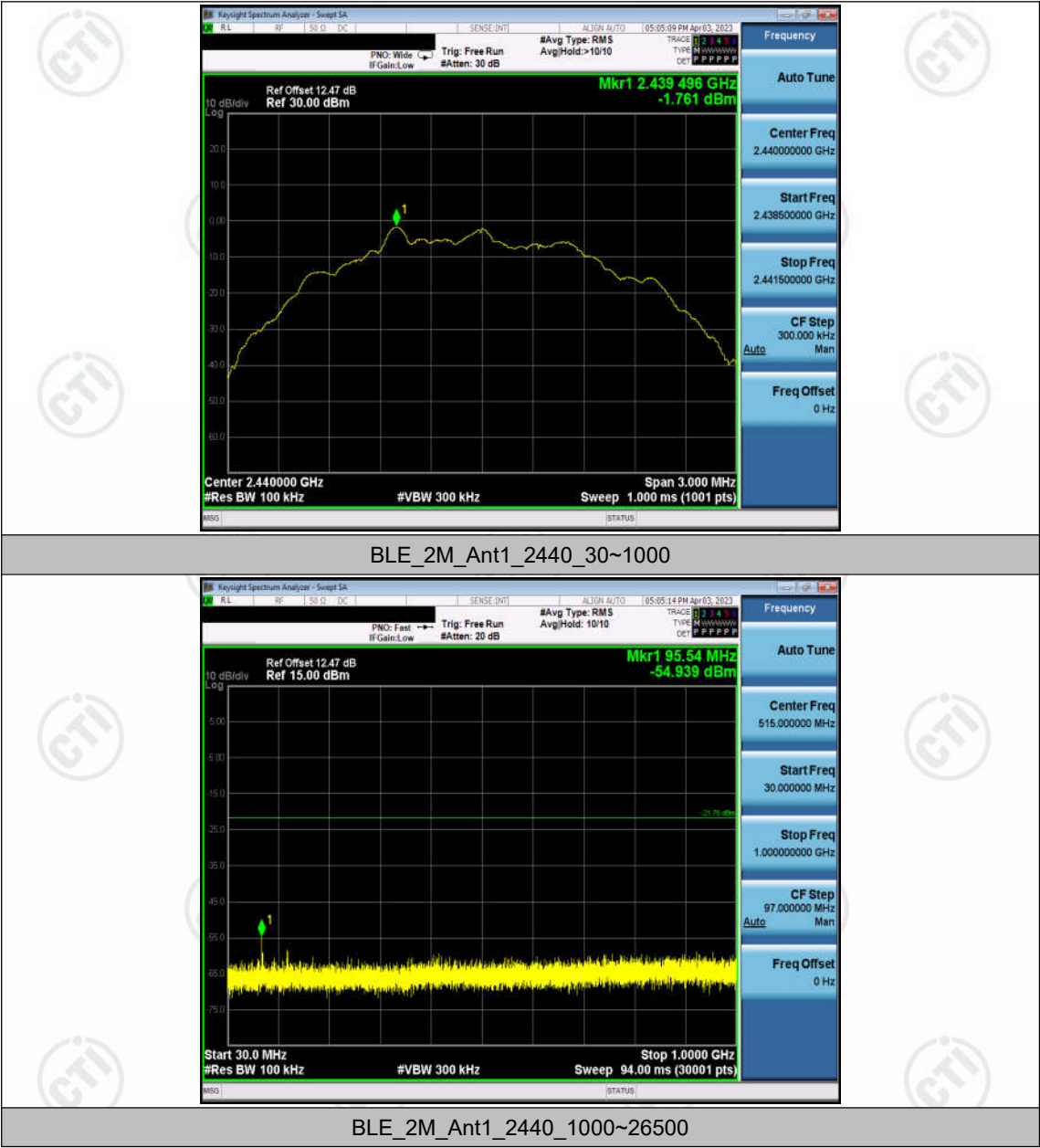


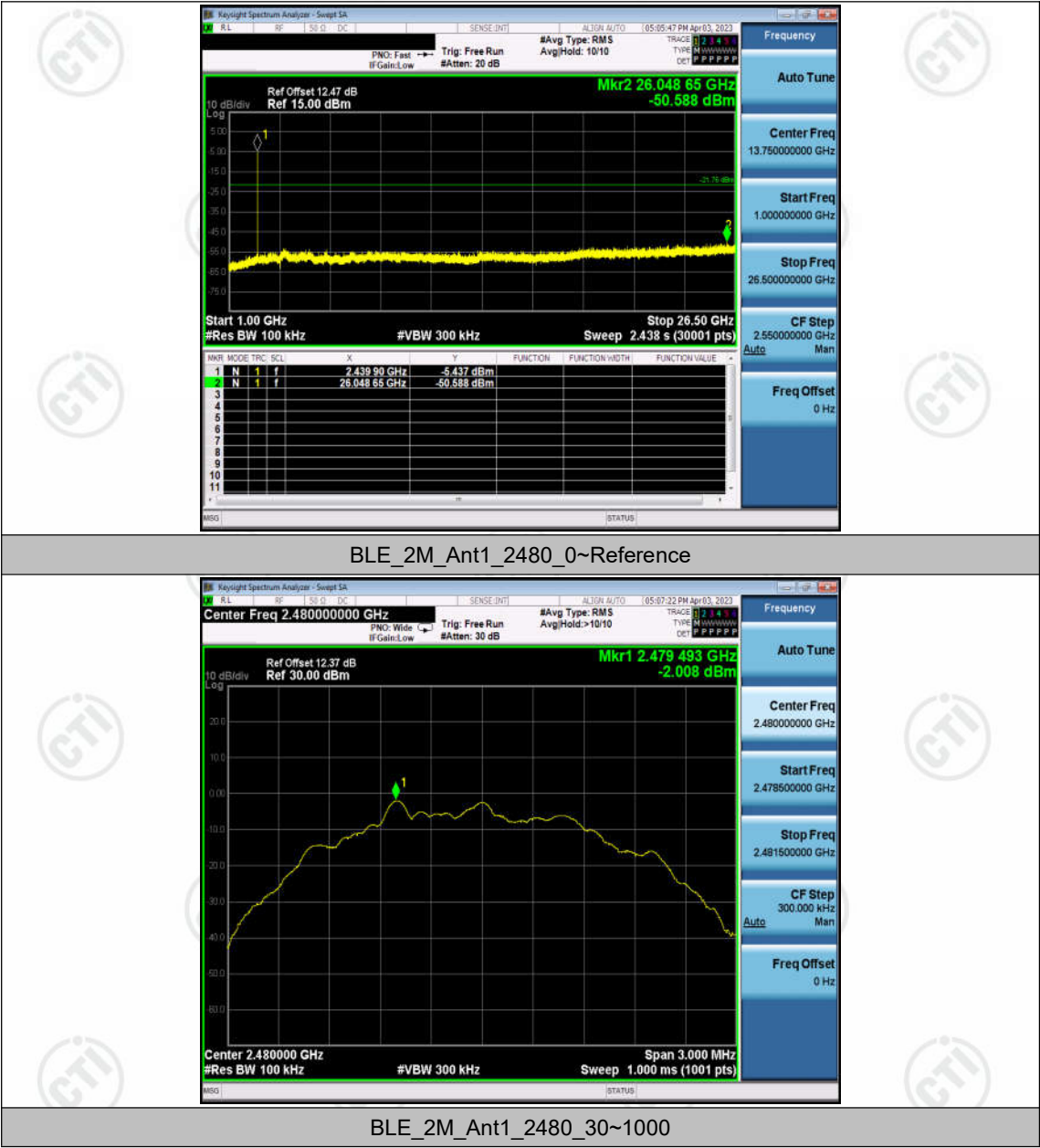


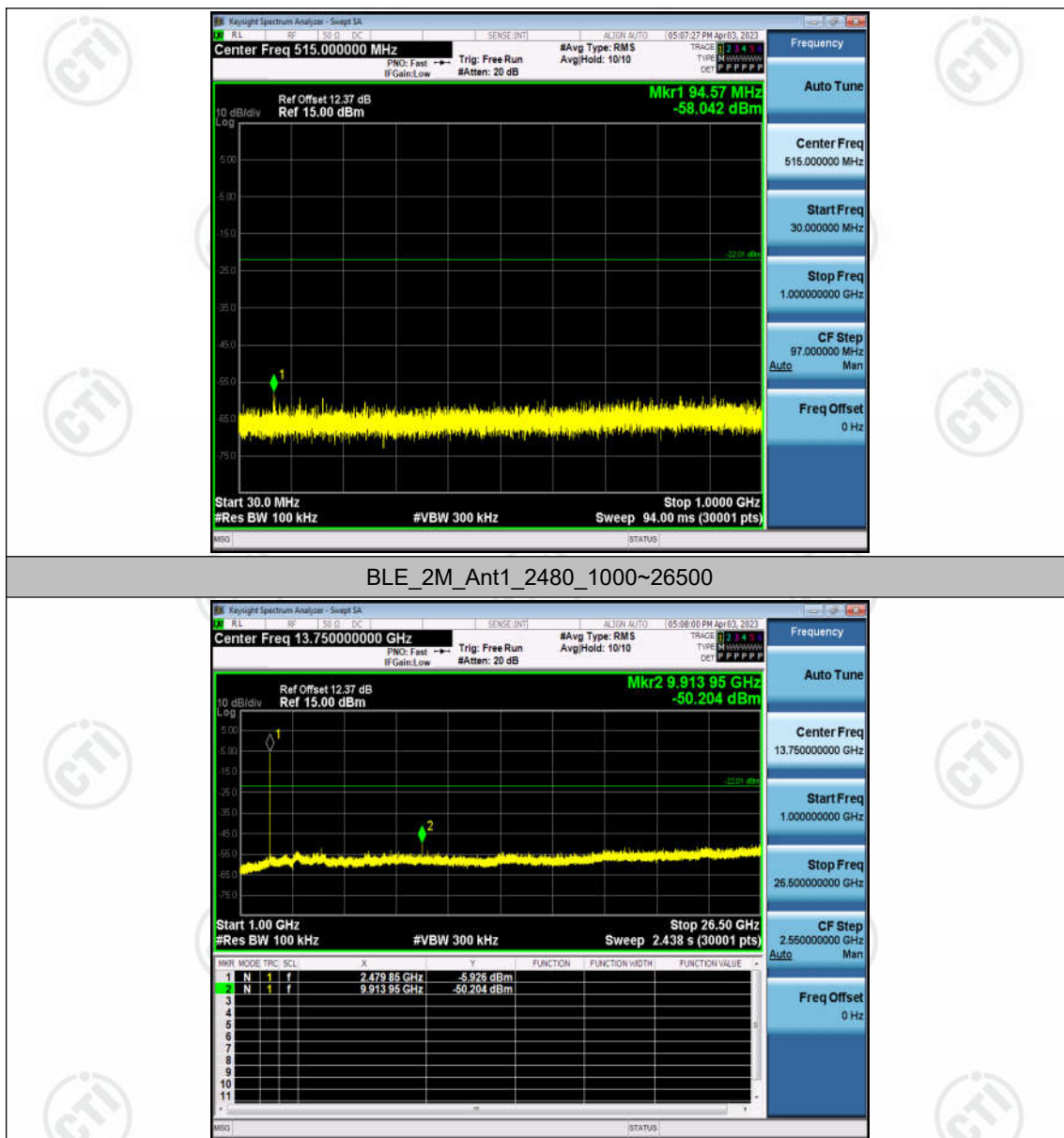










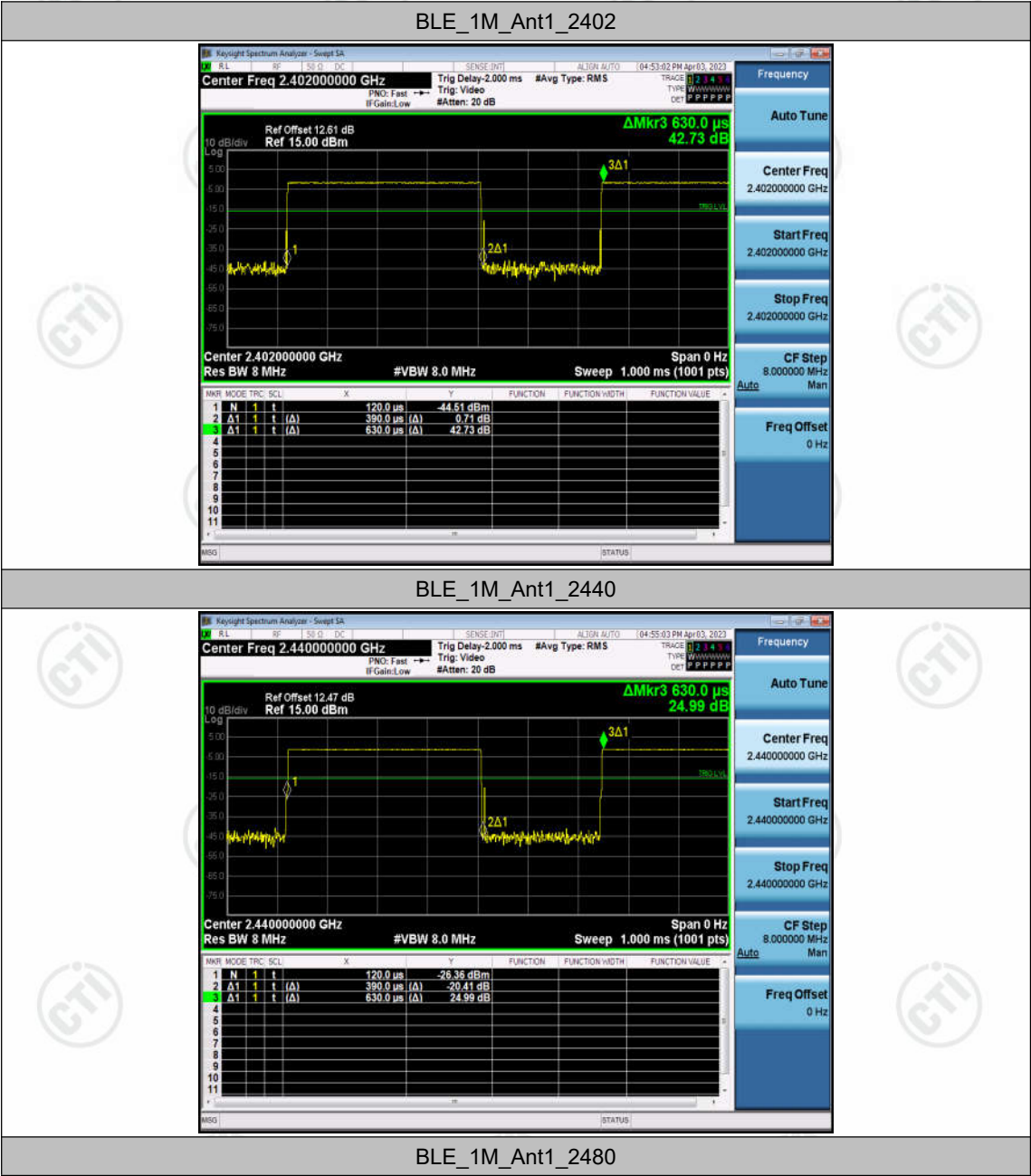


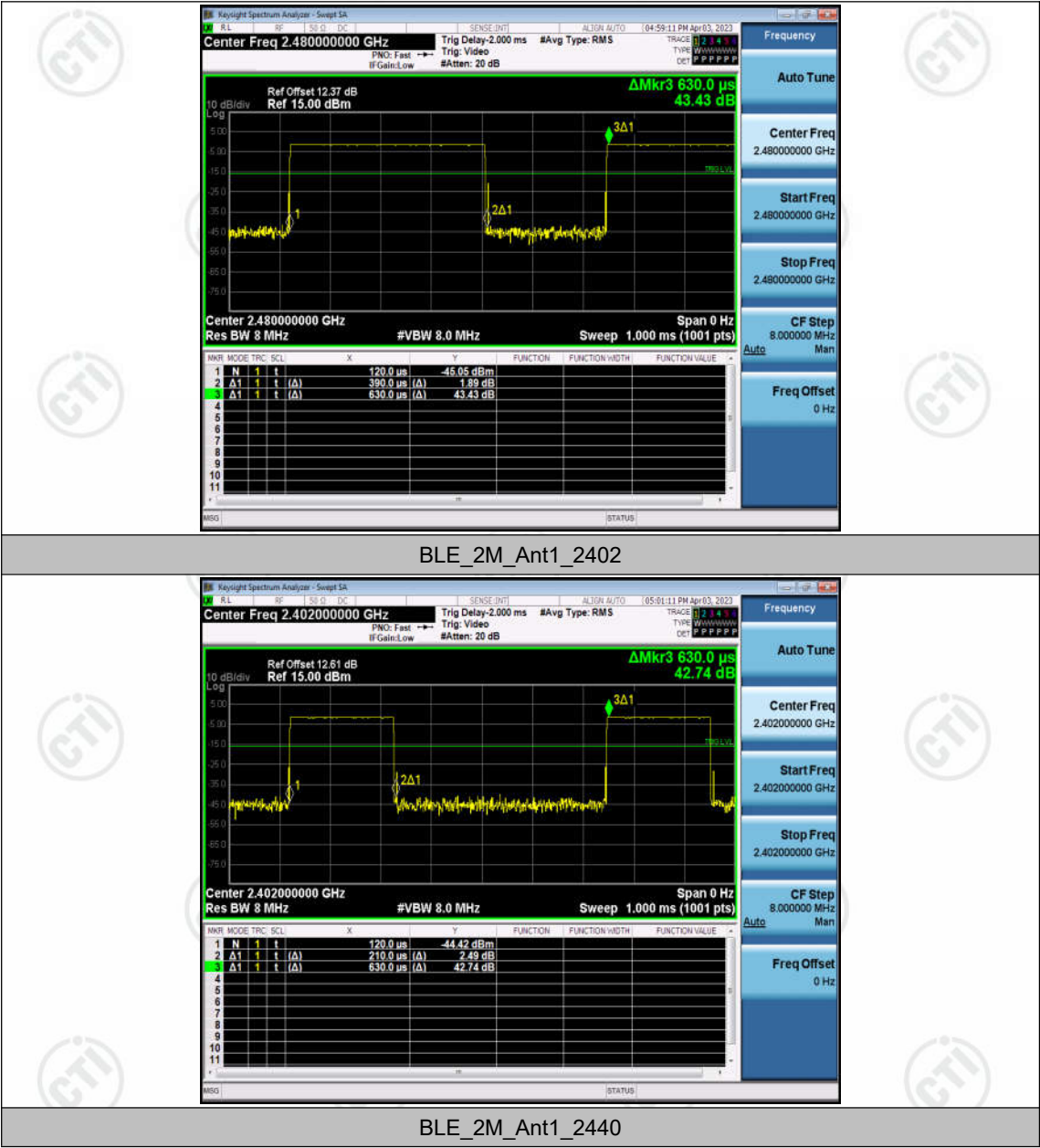
Appendix G: Duty Cycle

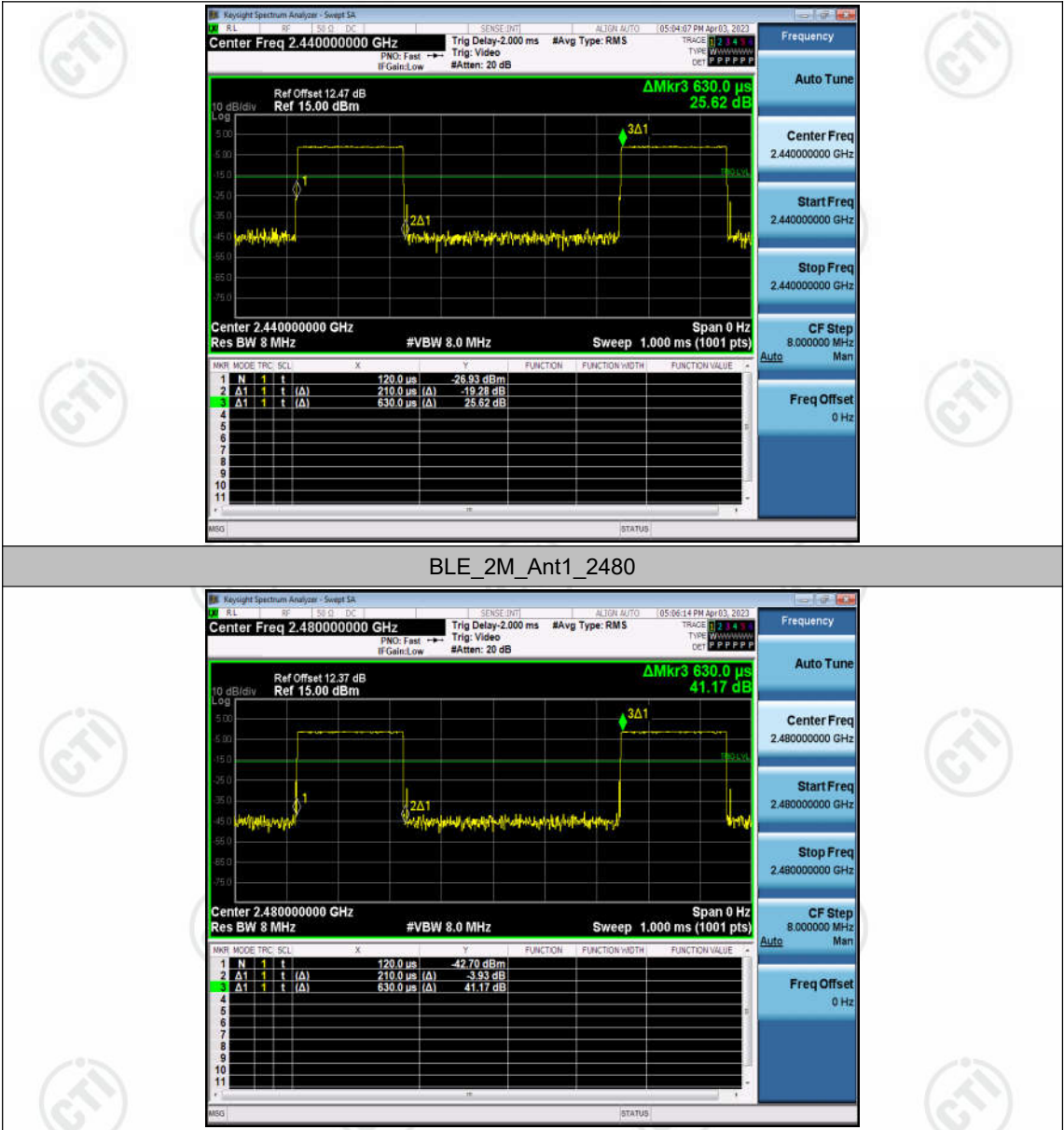
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77

Test Graphs







*** End of Report ***