

Appendix: Bluetooth LE

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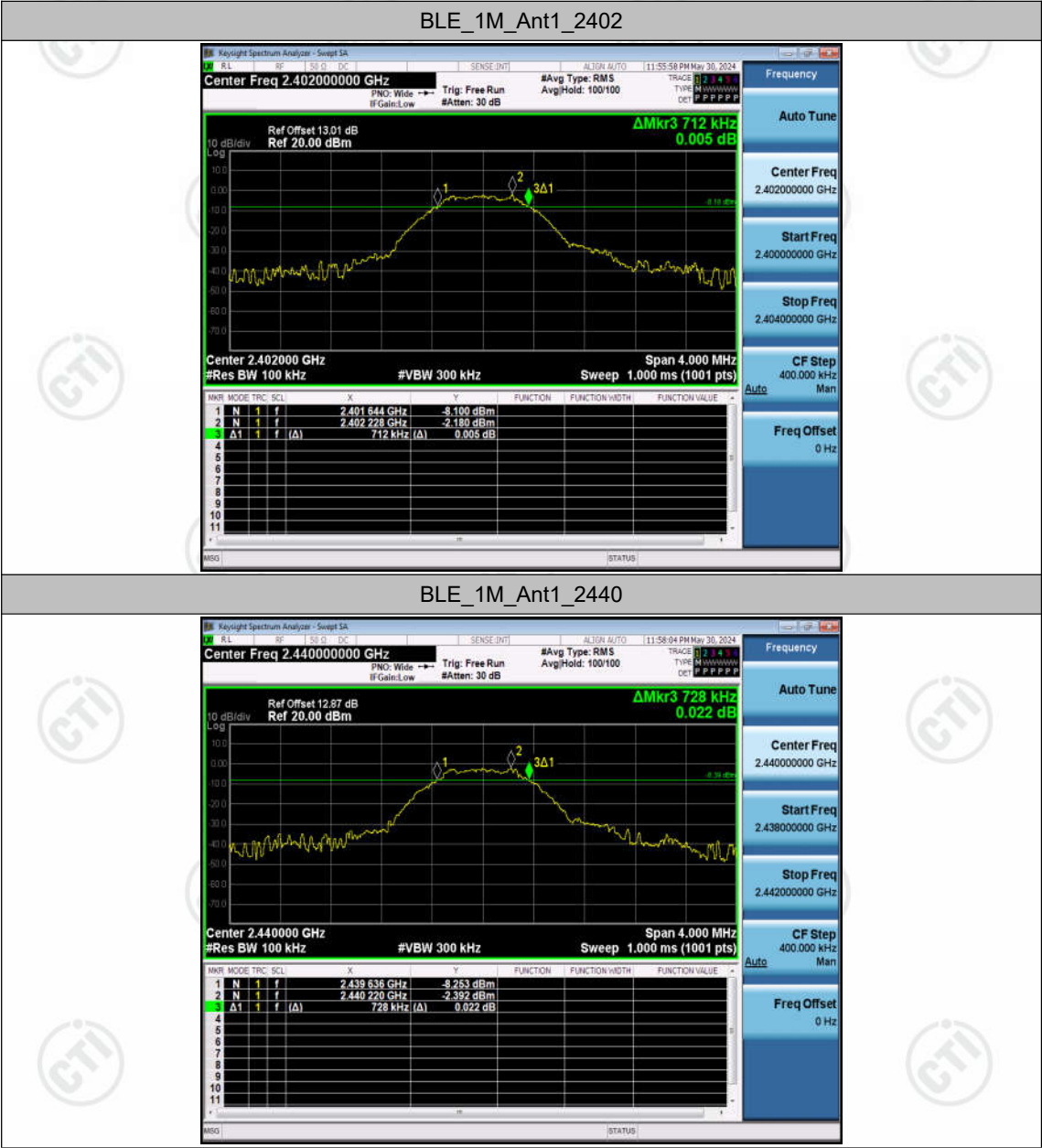
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DTS Bandwidth

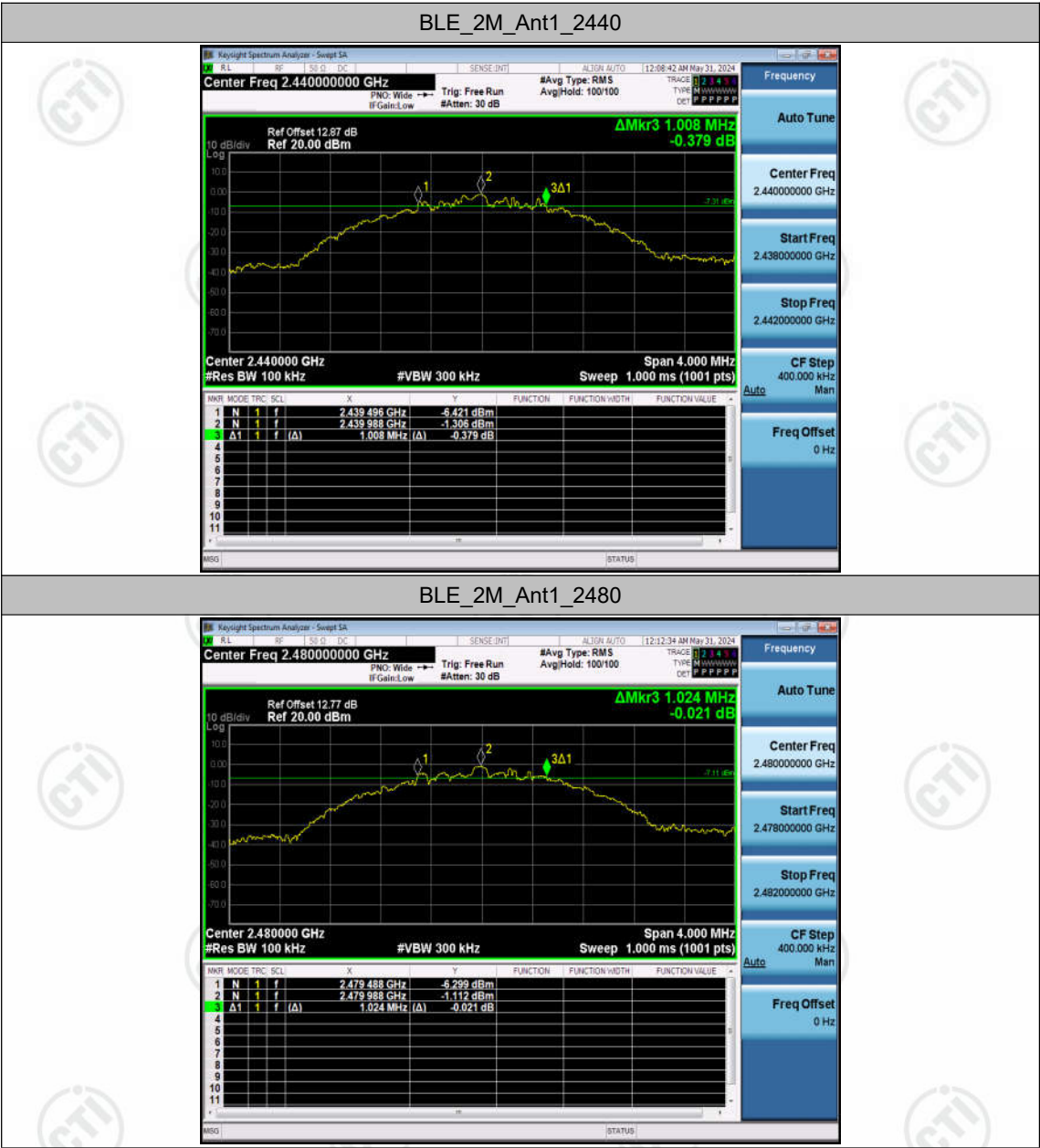
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.644	2402.356	0.5	PASS
		2440	0.728	2439.636	2440.364	0.5	PASS
		2480	0.680	2479.660	2480.340	0.5	PASS
BLE_2M	Ant1	2402	0.992	2401.476	2402.468	0.5	PASS
		2440	1.008	2439.496	2440.504	0.5	PASS
		2480	1.024	2479.488	2480.512	0.5	PASS

Test Graphs





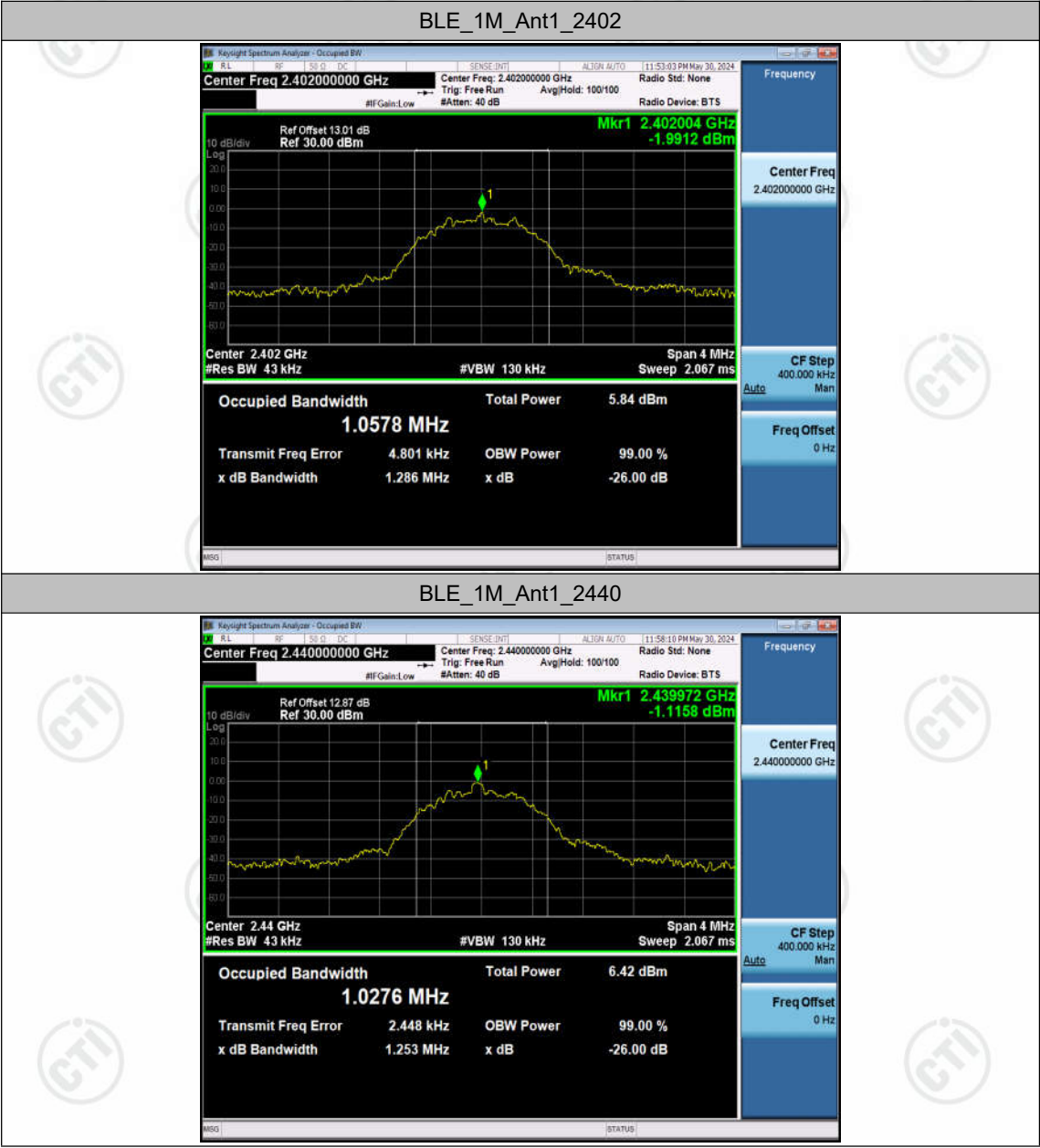


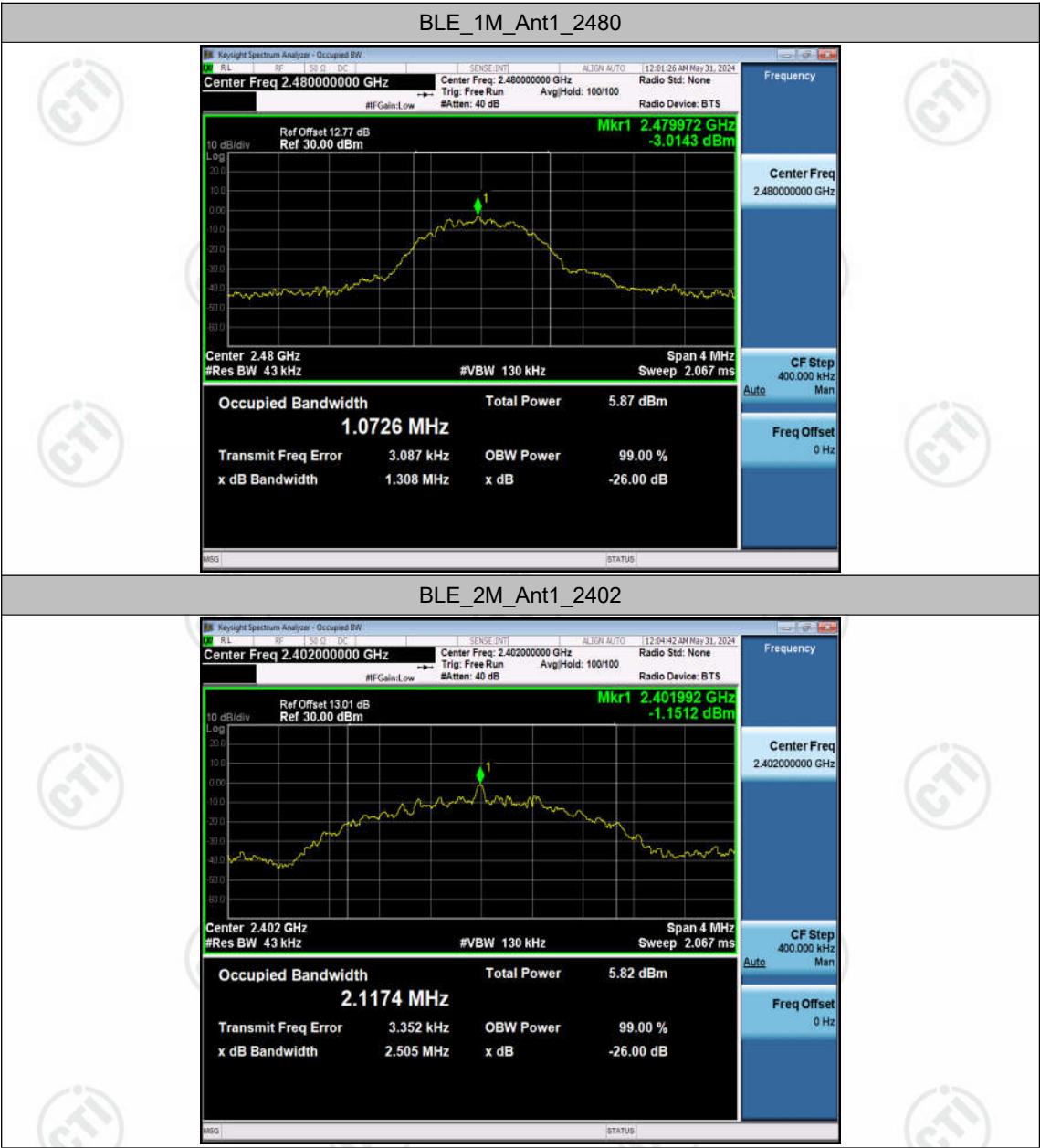
Appendix B: Occupied Channel Bandwidth

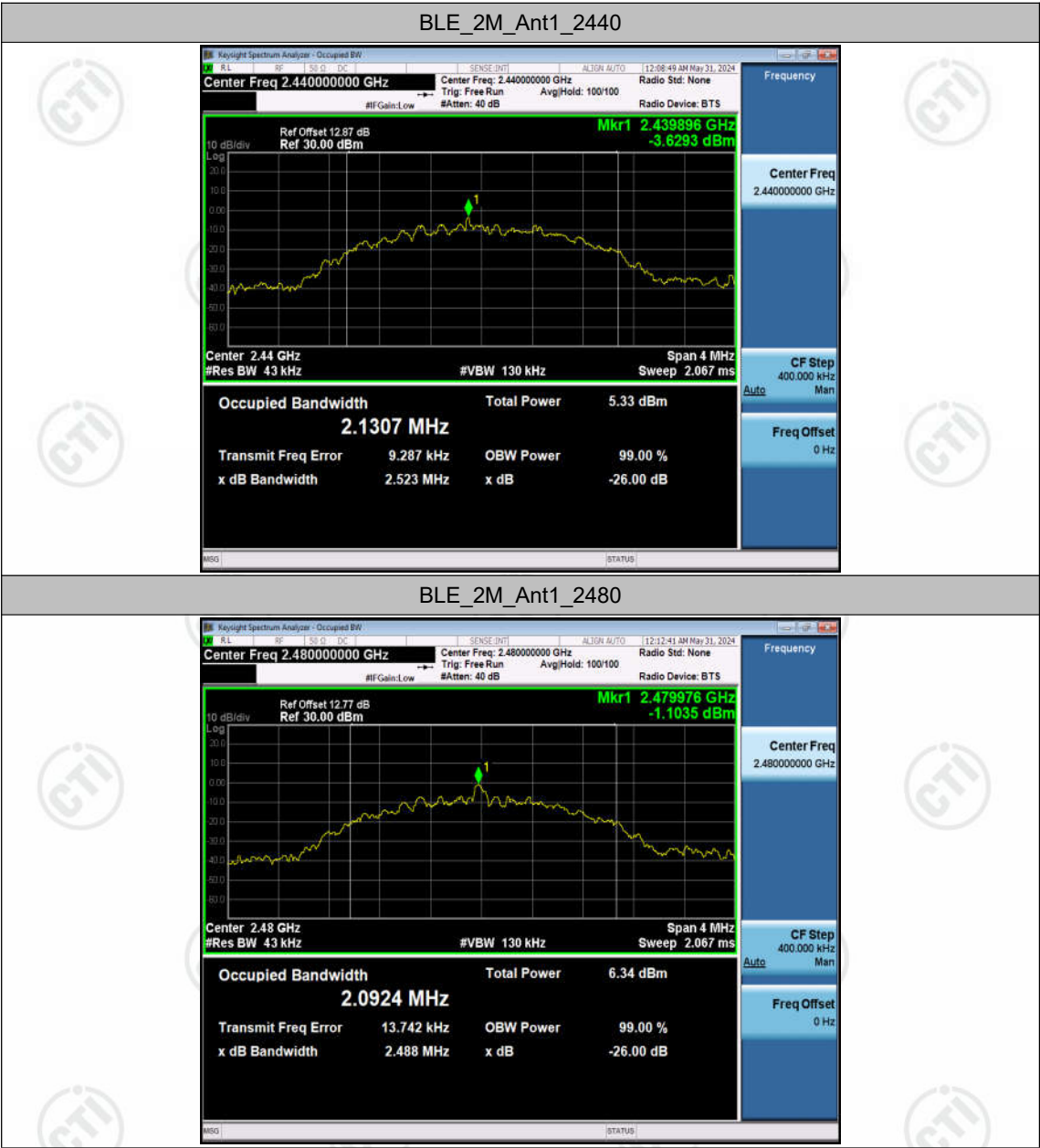
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0578	2401.4759	2402.5337	---	---
		2440	1.0276	2439.4887	2440.5163	---	---
		2480	1.0726	2479.4668	2480.5394	---	---
BLE_2M	Ant1	2402	2.1174	2400.9447	2403.0621	---	---
		2440	2.1307	2438.9439	2441.0746	---	---
		2480	2.0924	2478.9675	2481.0599	---	---

Test Graphs





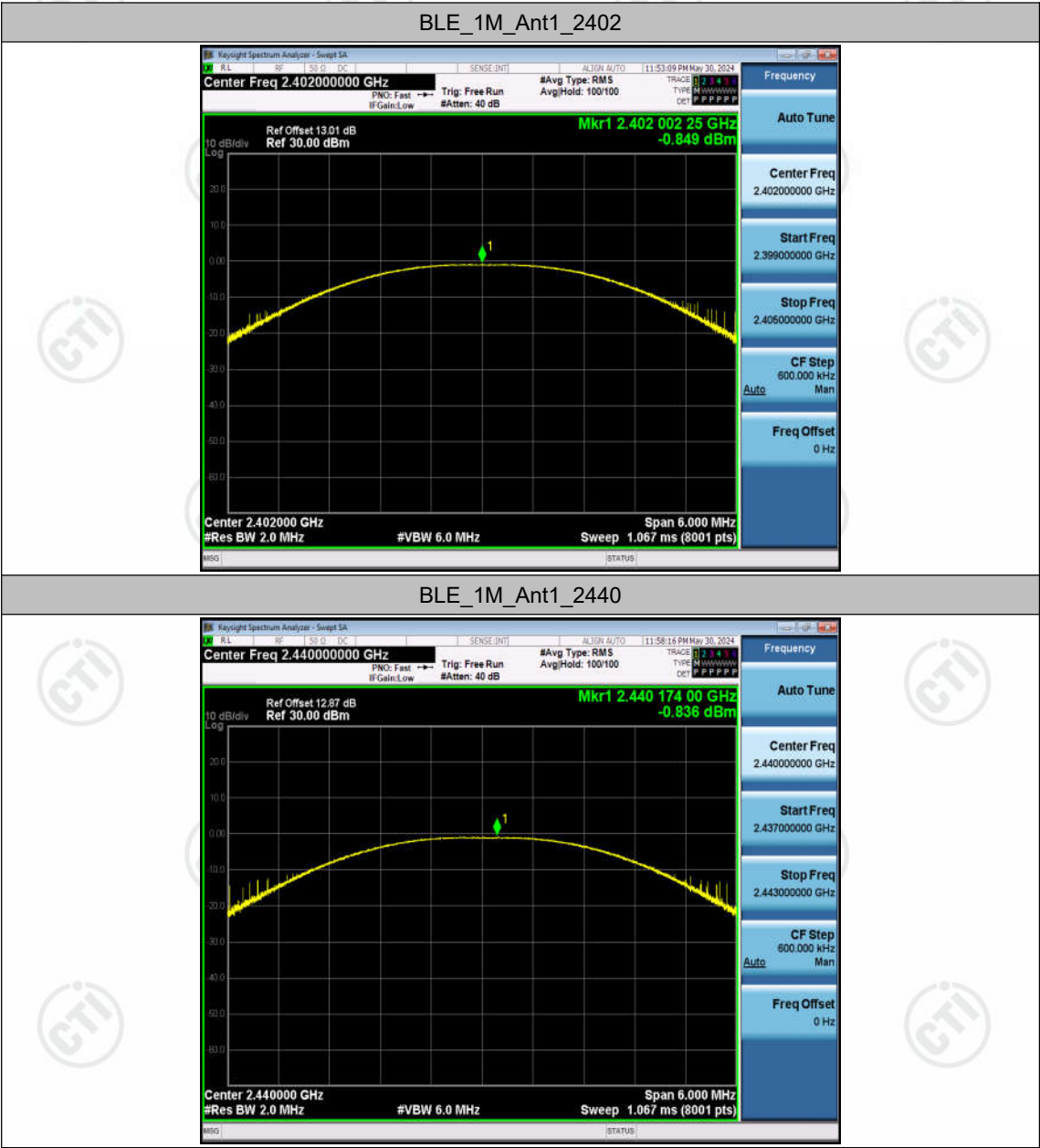


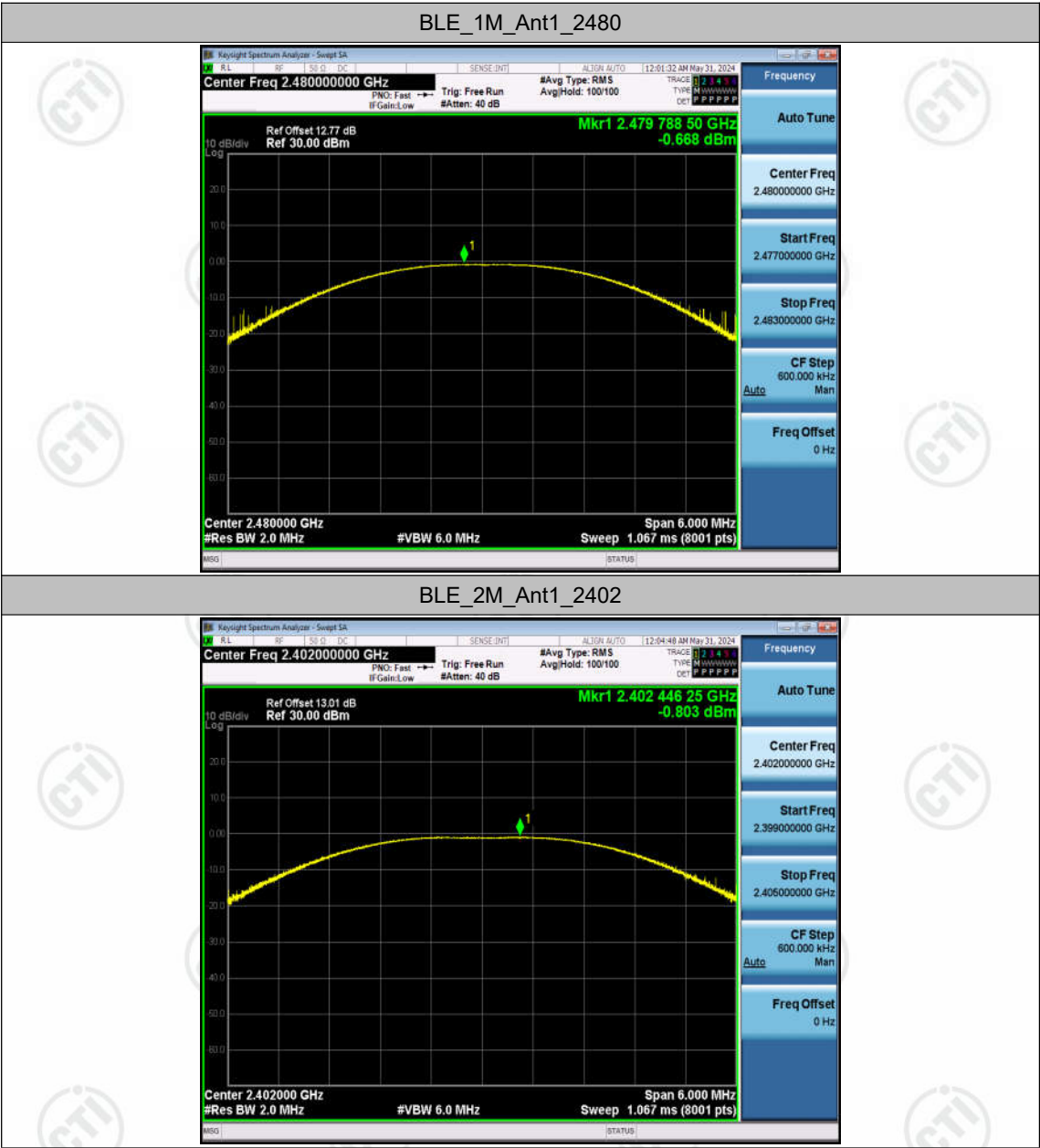
Appendix C: Maximum conducted output power

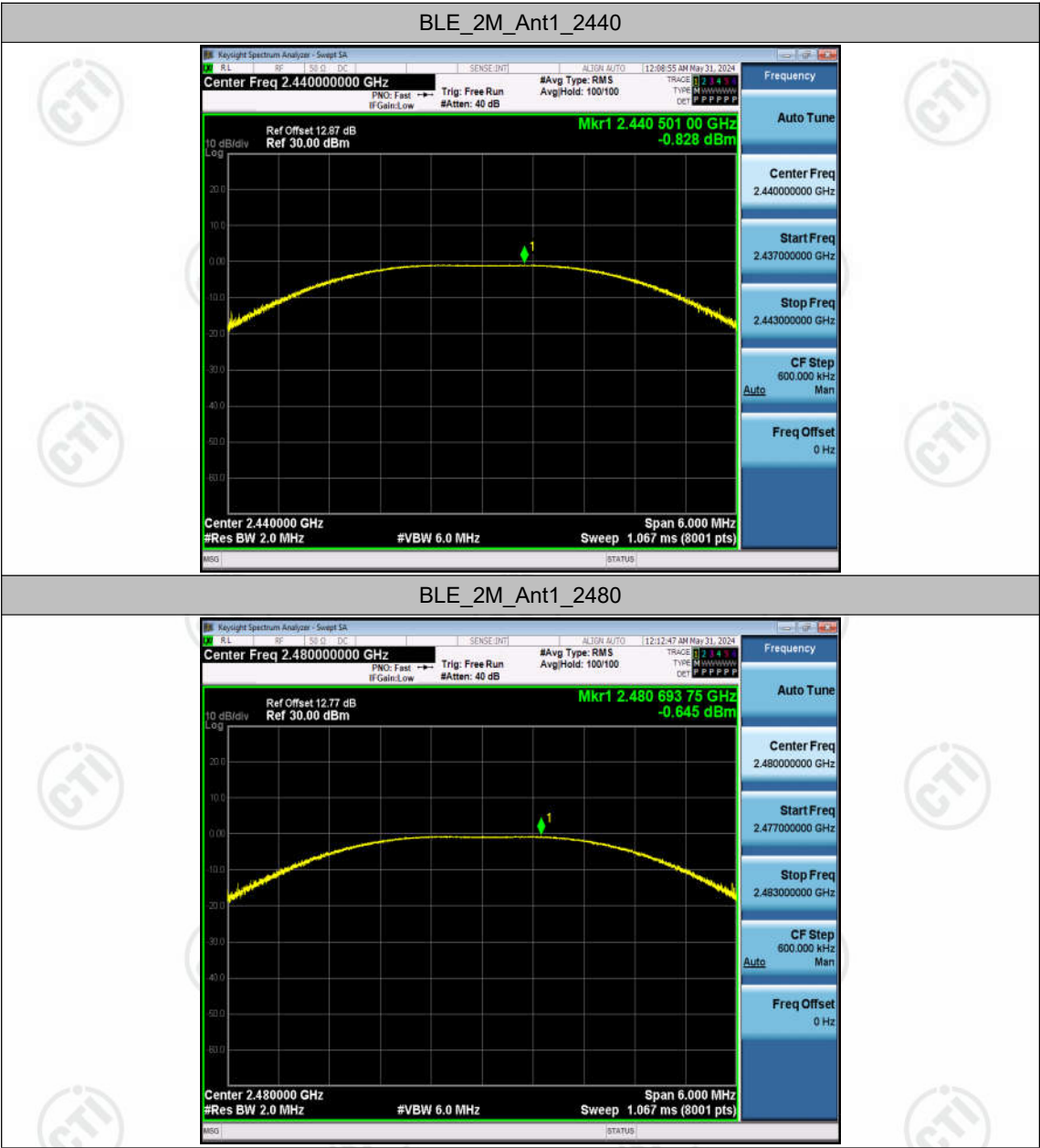
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.85	≤30	PASS
		2440	-0.84	≤30	PASS
		2480	-0.67	≤30	PASS
BLE_2M	Ant1	2402	-0.8	≤30	PASS
		2440	-0.83	≤30	PASS
		2480	-0.65	≤30	PASS

Test Graphs Peak





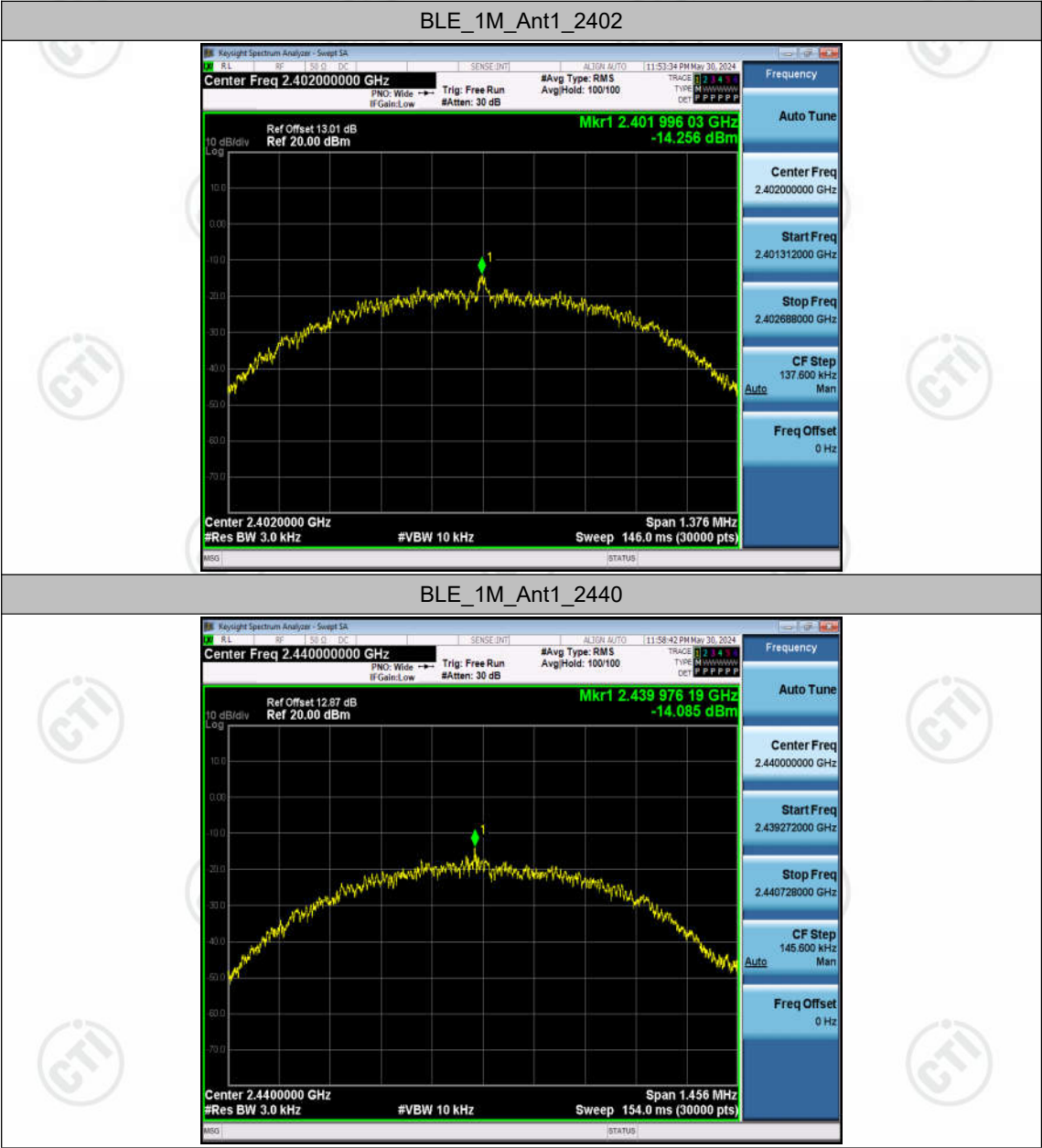


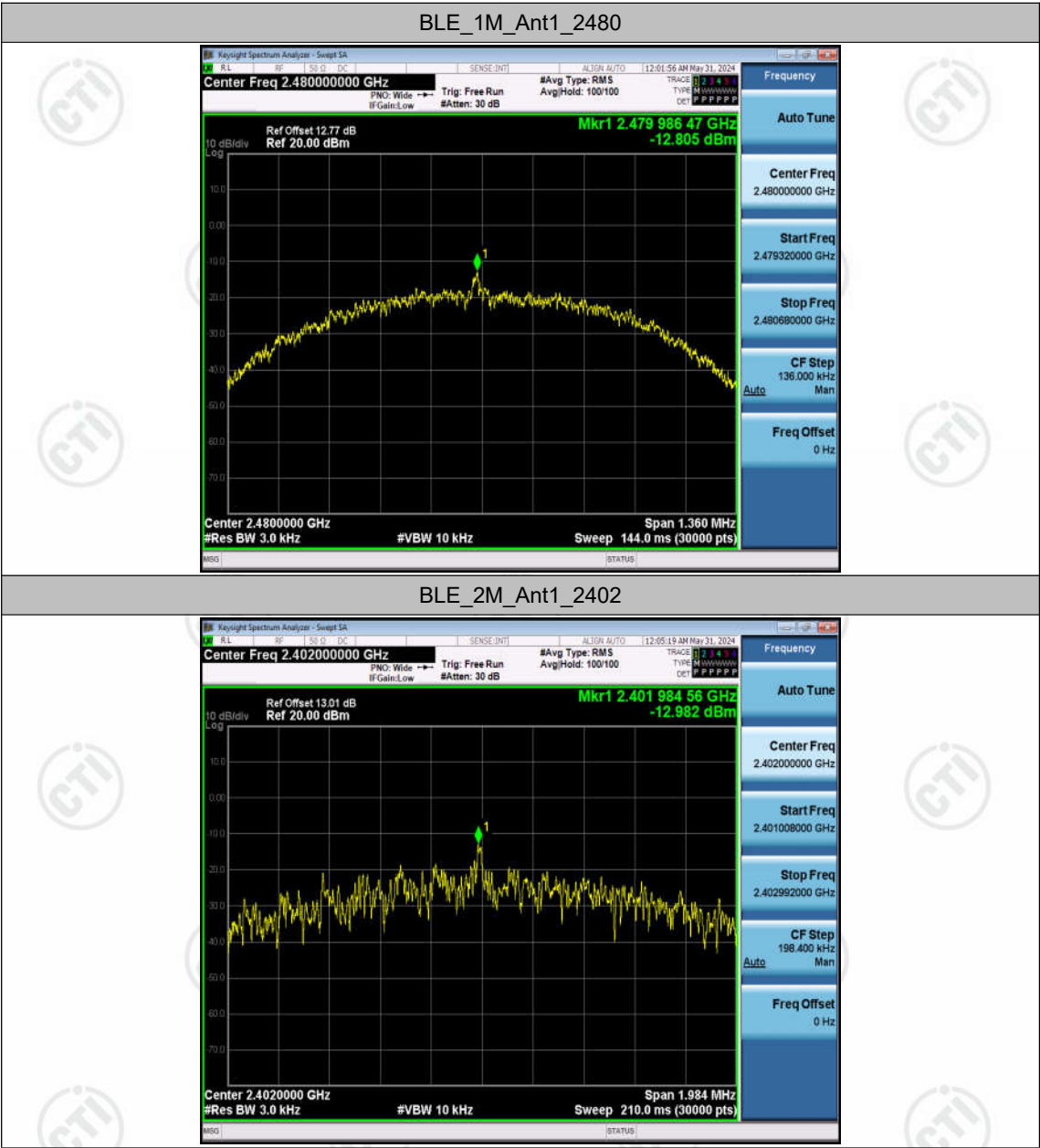
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.26	≤8.00	PASS
		2440	-14.09	≤8.00	PASS
		2480	-12.81	≤8.00	PASS
BLE_2M	Ant1	2402	-12.98	≤8.00	PASS
		2440	-16.16	≤8.00	PASS
		2480	-14.84	≤8.00	PASS

Test Graphs

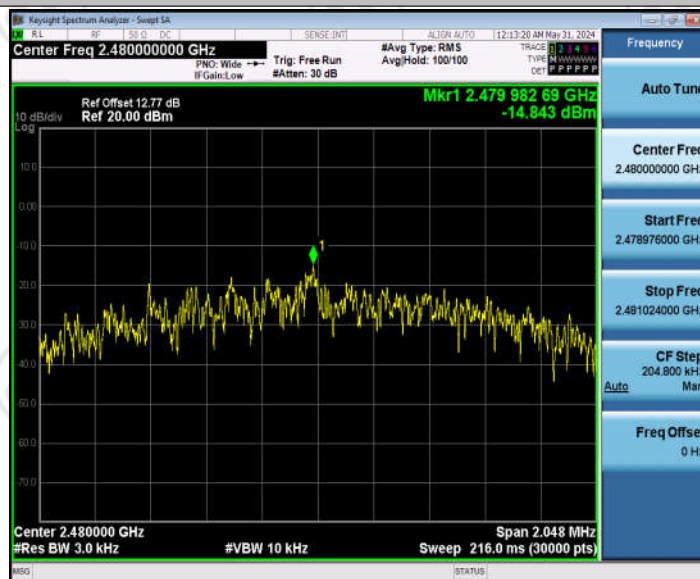




BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

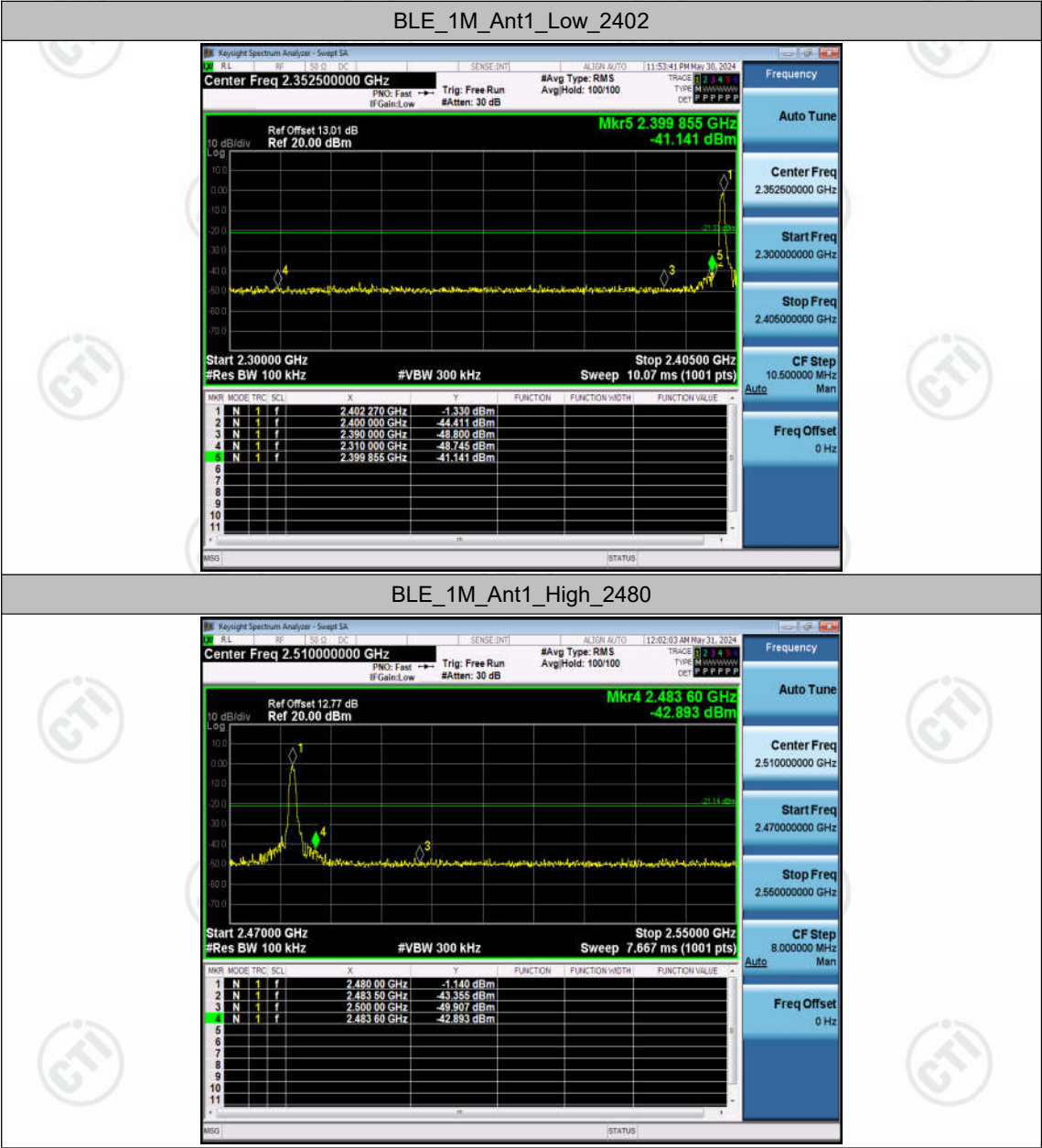


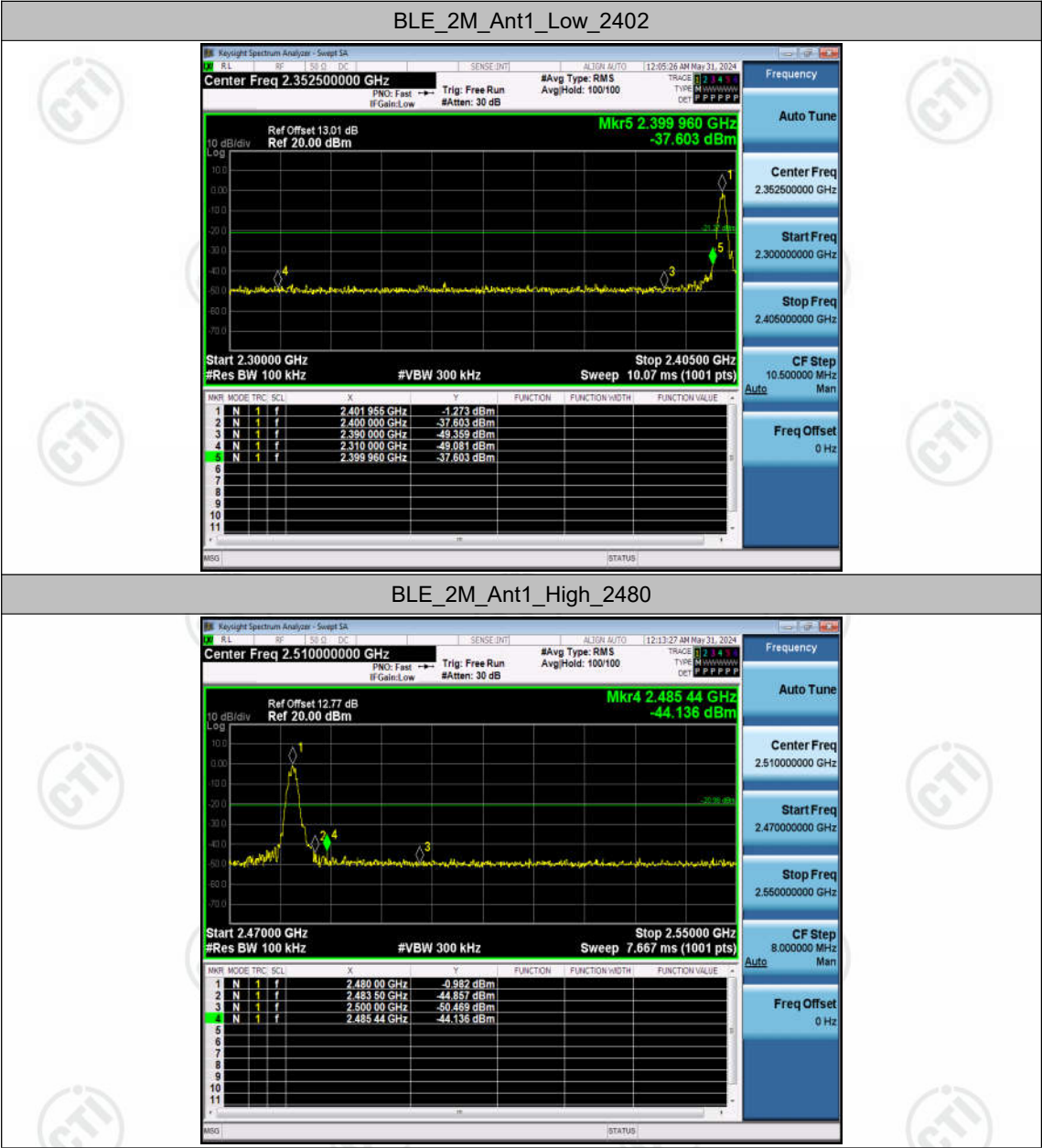
Appendix F: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.33	-41.14	≤-21.33	PASS
		High	2480	-1.14	-42.89	≤-21.14	PASS
BLE_2M	Ant1	Low	2402	-1.27	-37.6	≤-21.27	PASS
		High	2480	-0.98	-44.14	≤-20.98	PASS

Test Graphs



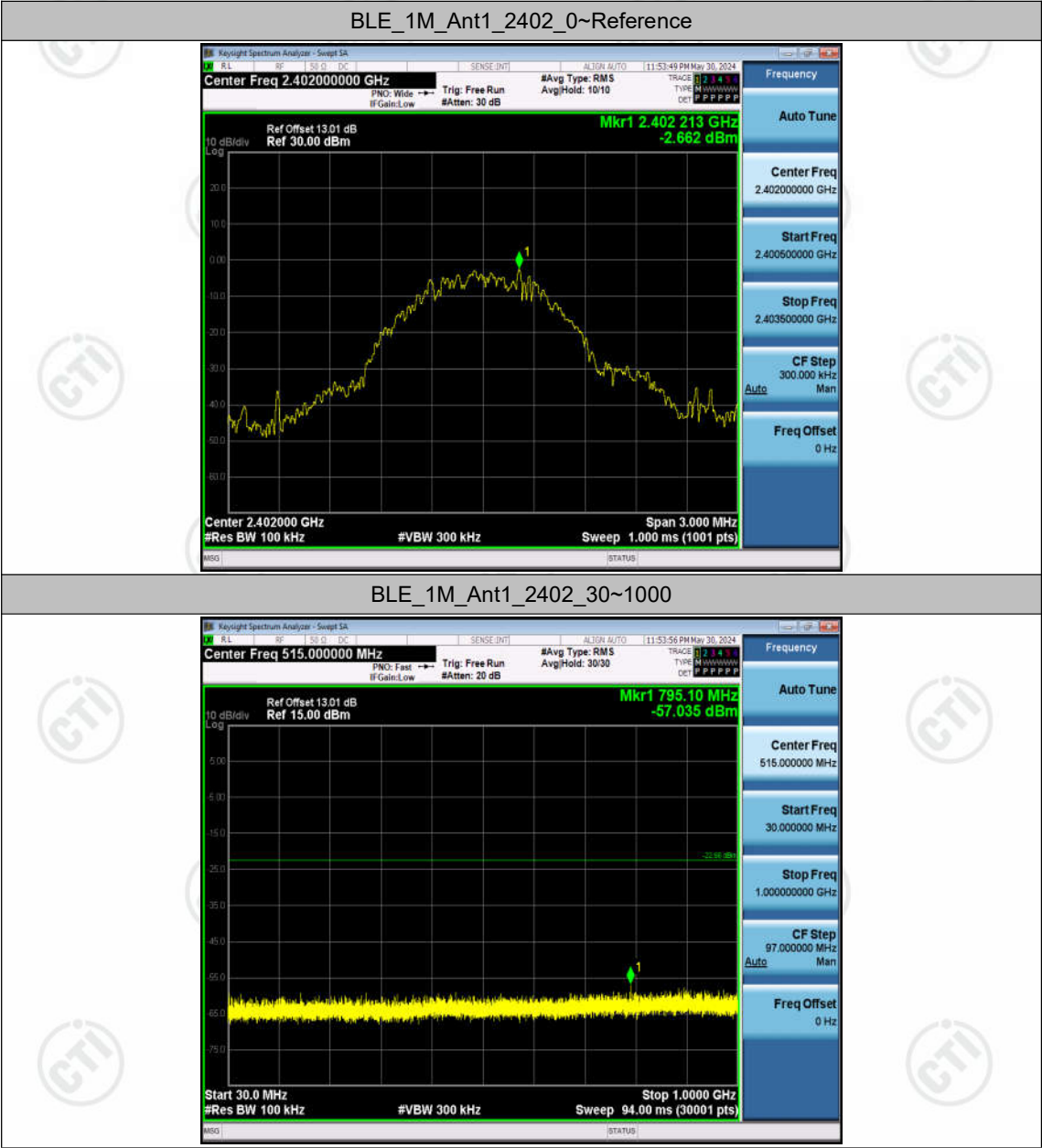


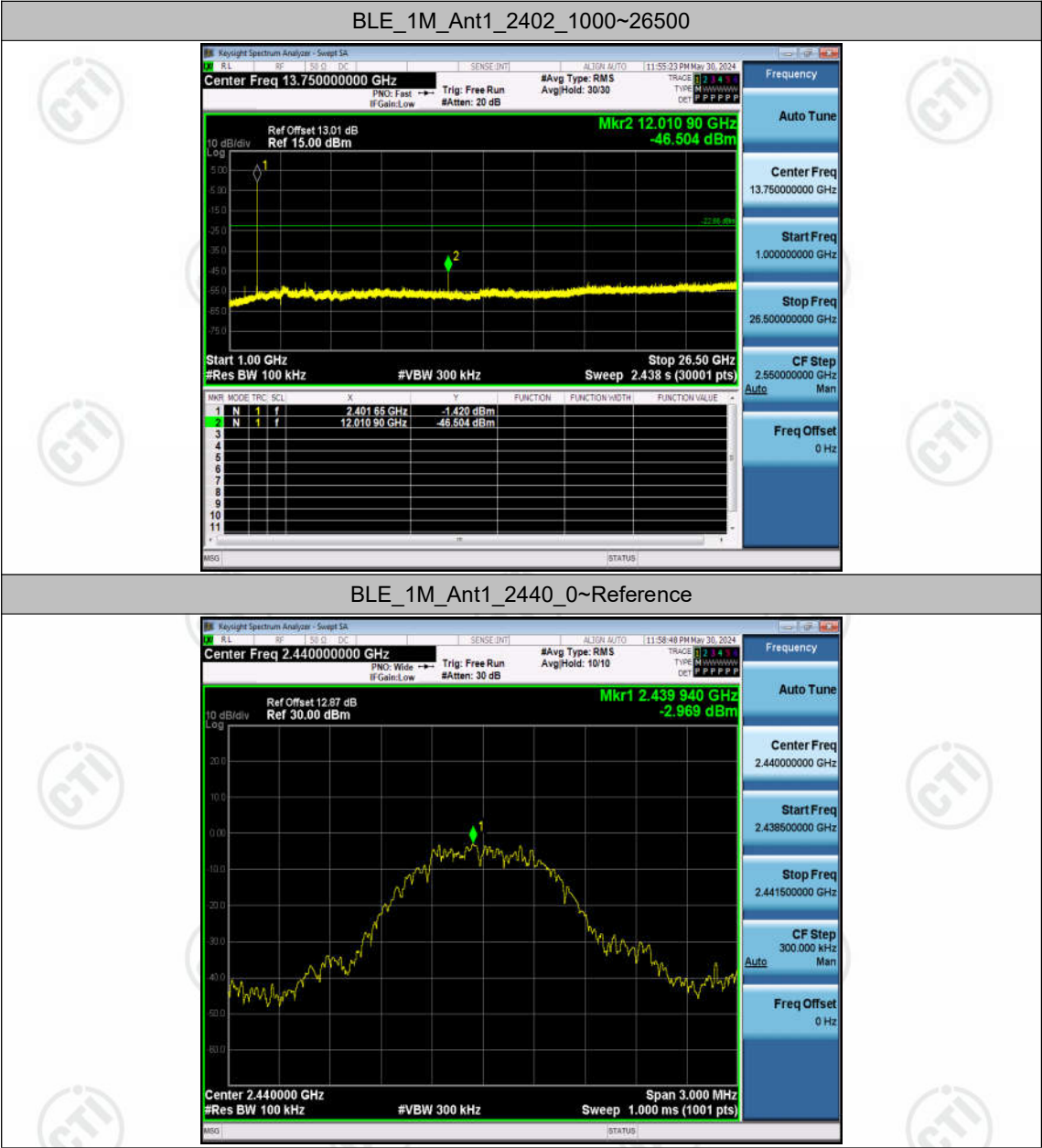
Appendix G: Conducted Spurious Emission

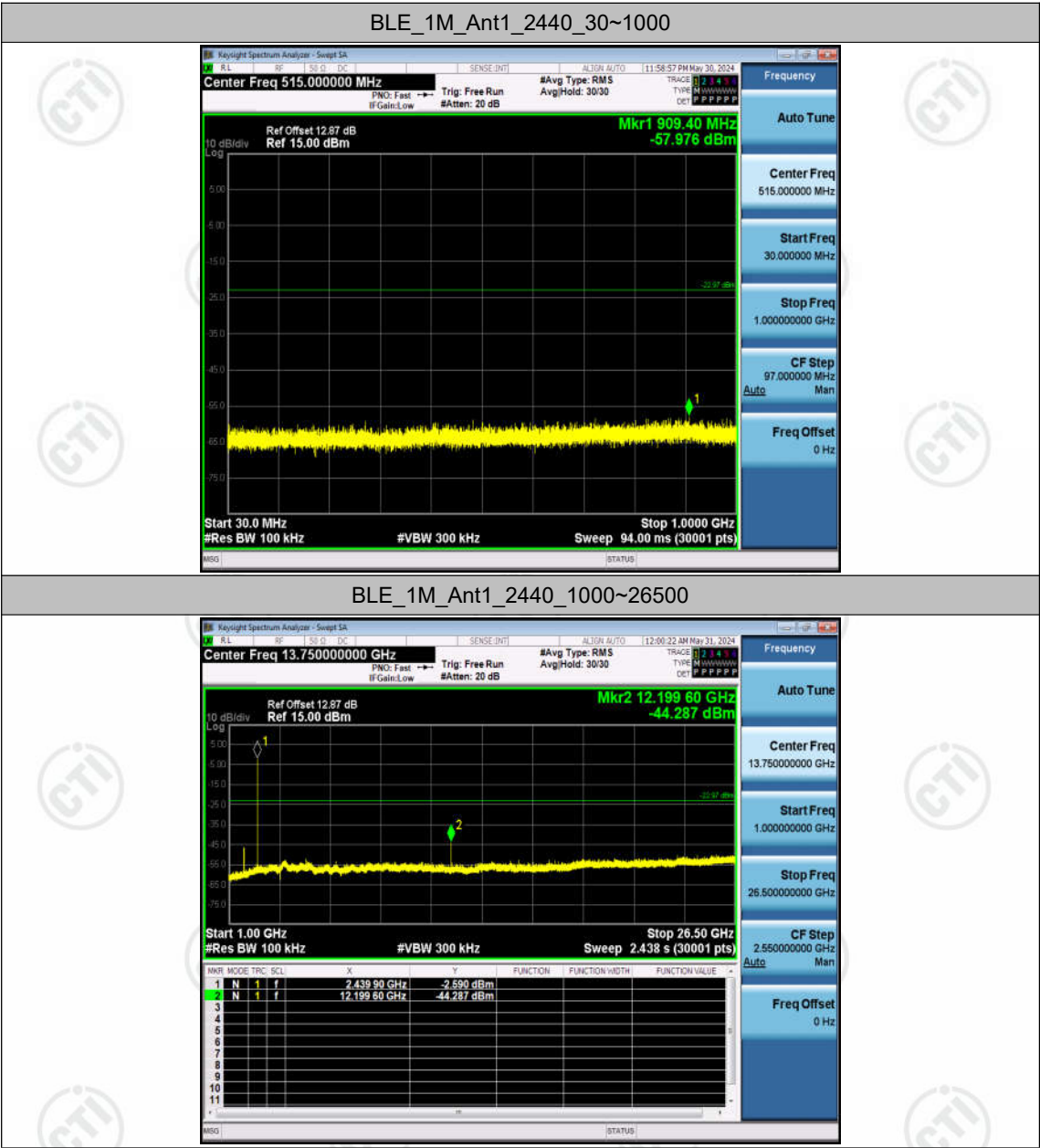
Test Result

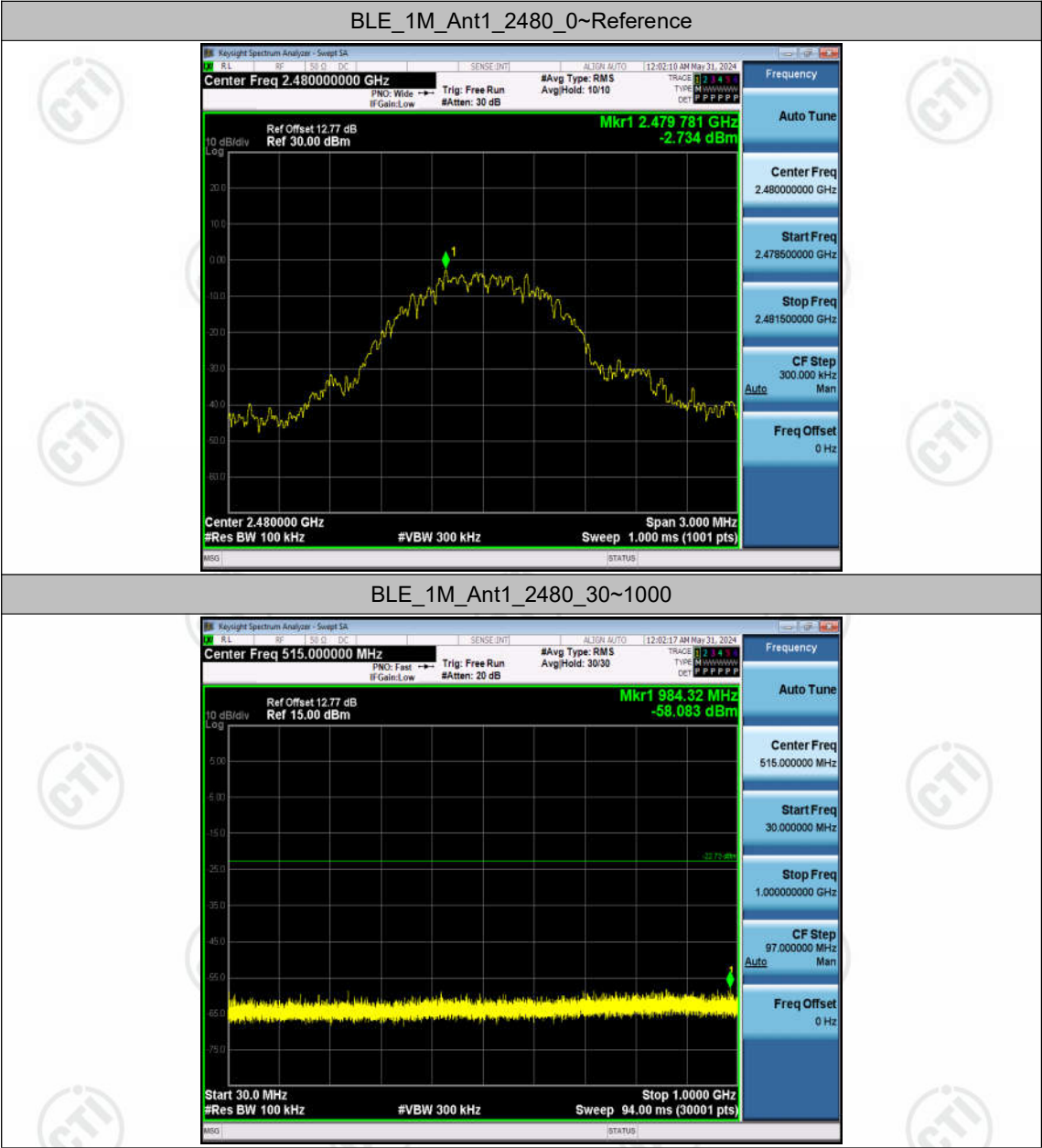
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-57.04	≤-22.66	PASS
			1000~26500	-2.66	-46.5	≤-22.66	PASS
		2440	Reference	-2.97	-2.97	---	PASS
			30~1000	-2.97	-57.98	≤-22.97	PASS
			1000~26500	-2.97	-44.29	≤-22.97	PASS
		2480	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-58.08	≤-22.73	PASS
			1000~26500	-2.73	-44.96	≤-22.73	PASS
BLE_2M	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-57.24	≤-21.35	PASS
			1000~26500	-1.35	-48.06	≤-21.35	PASS
		2440	Reference	-2.35	-2.35	---	PASS
			30~1000	-2.35	-57.66	≤-22.35	PASS
			1000~26500	-2.35	-44.16	≤-22.35	PASS
		2480	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-57.88	≤-23.49	PASS
			1000~26500	-3.49	-46.55	≤-23.49	PASS

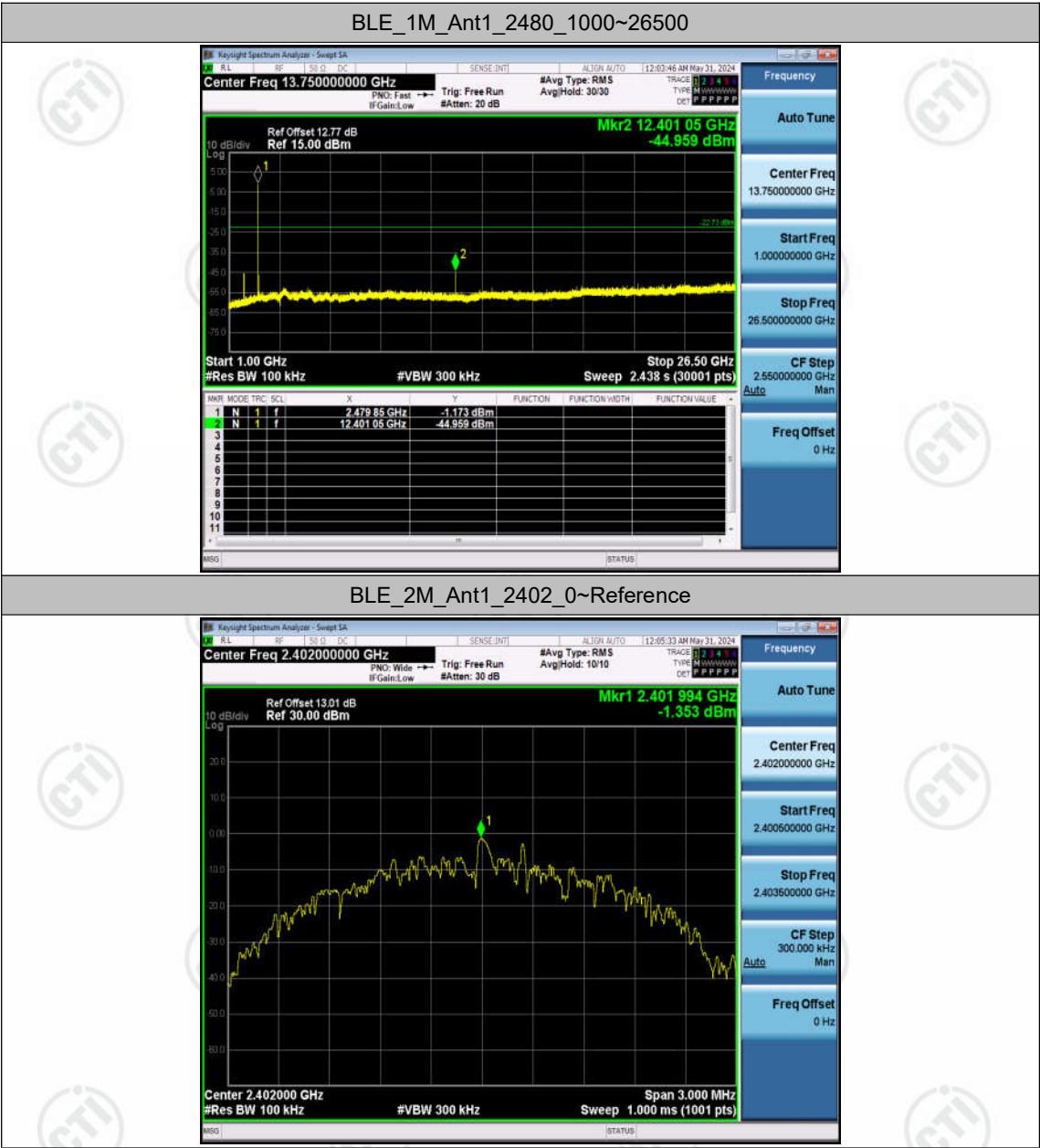
Test Graphs

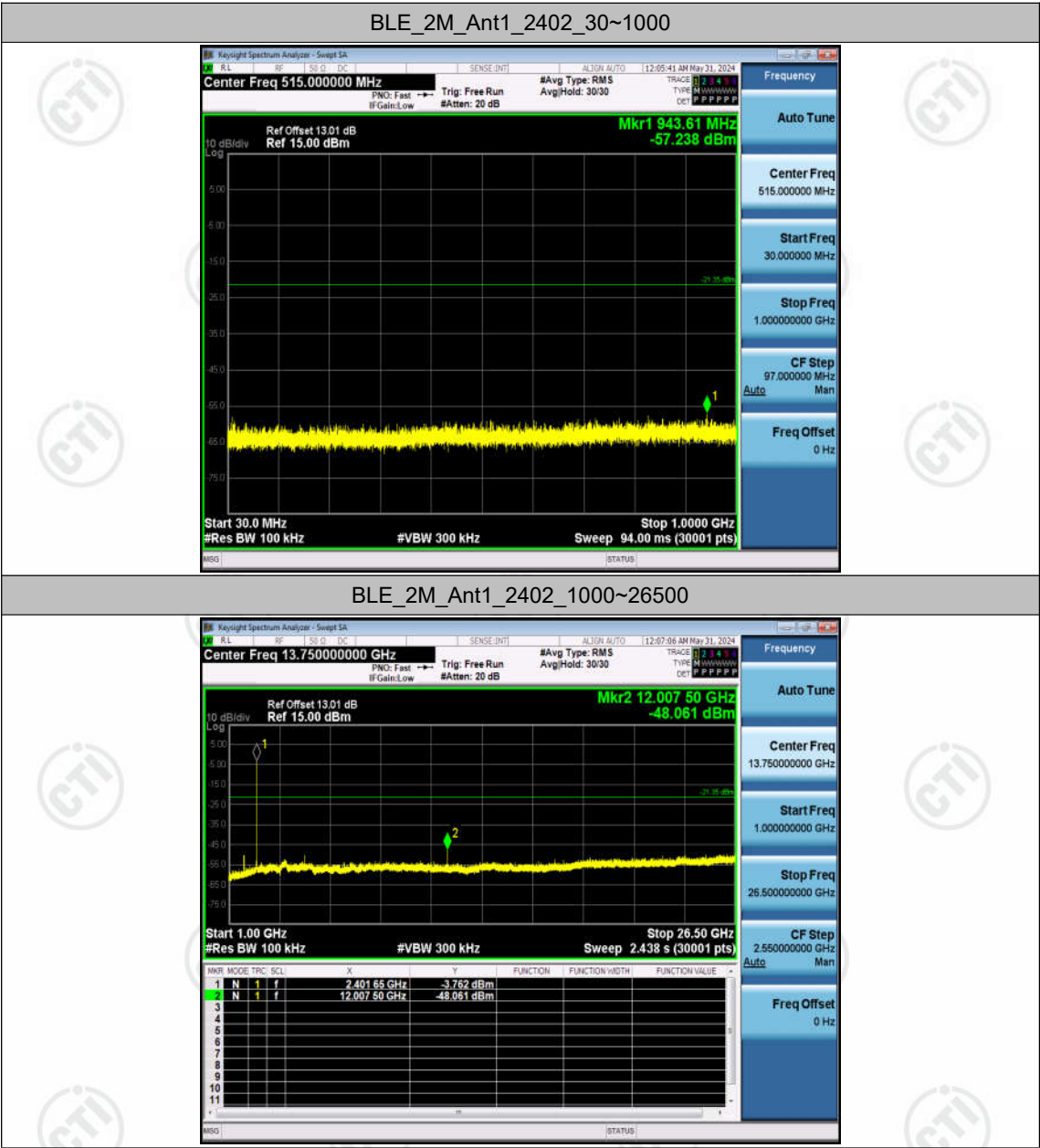








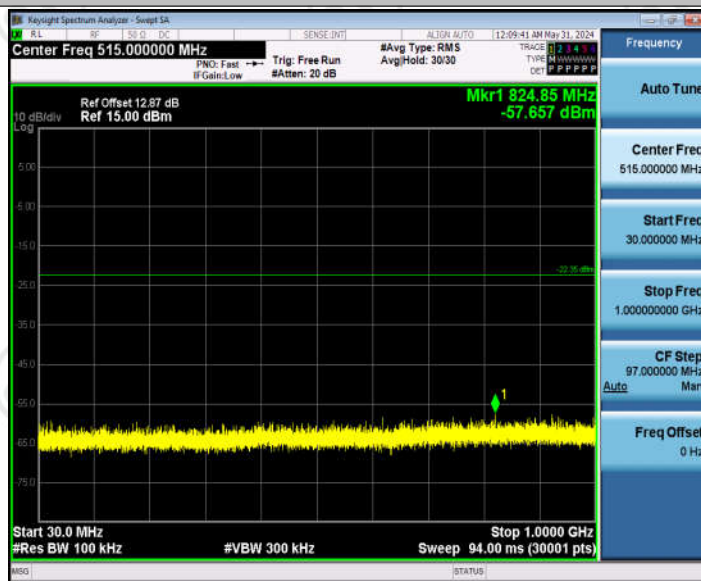


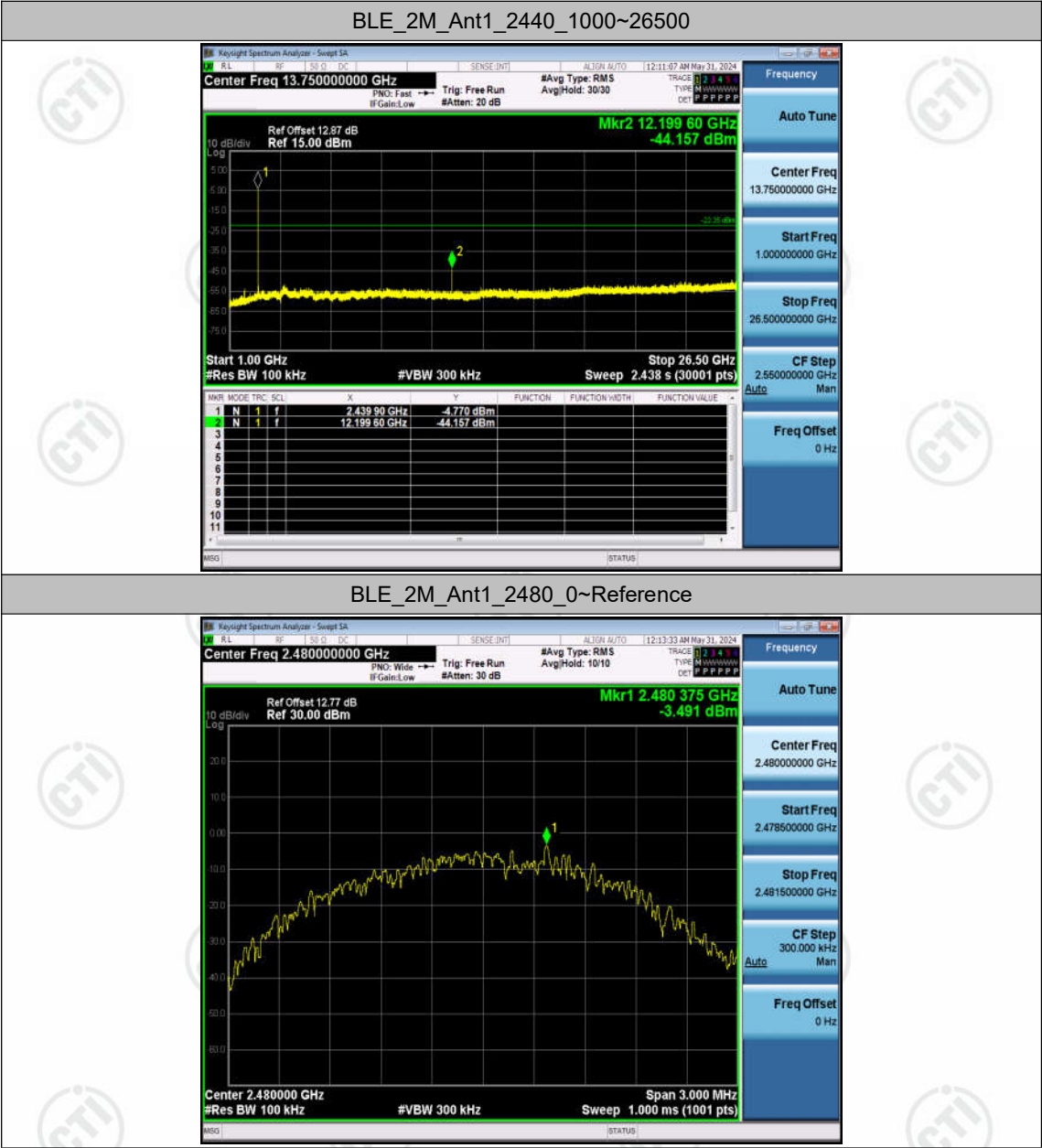


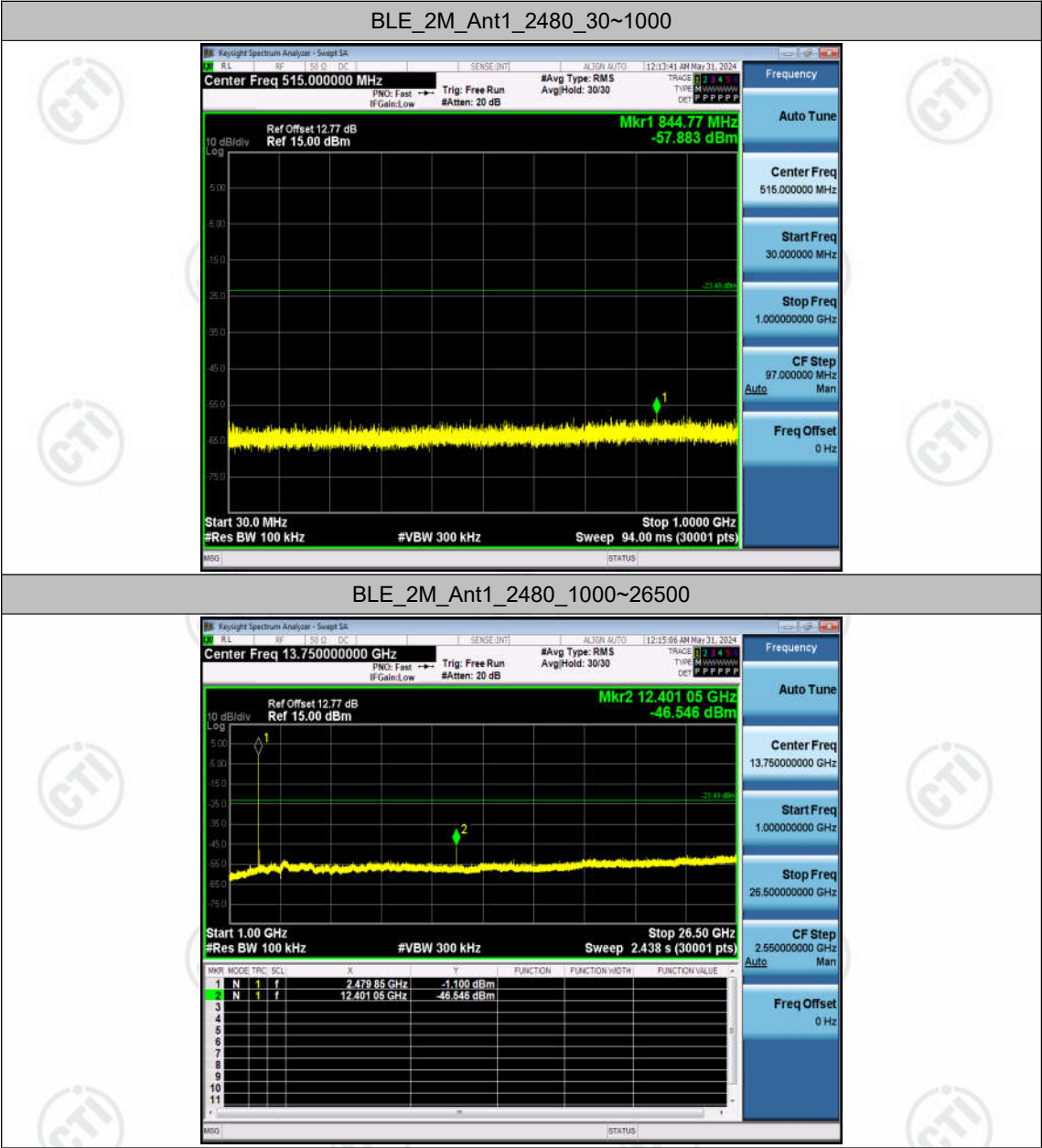
BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



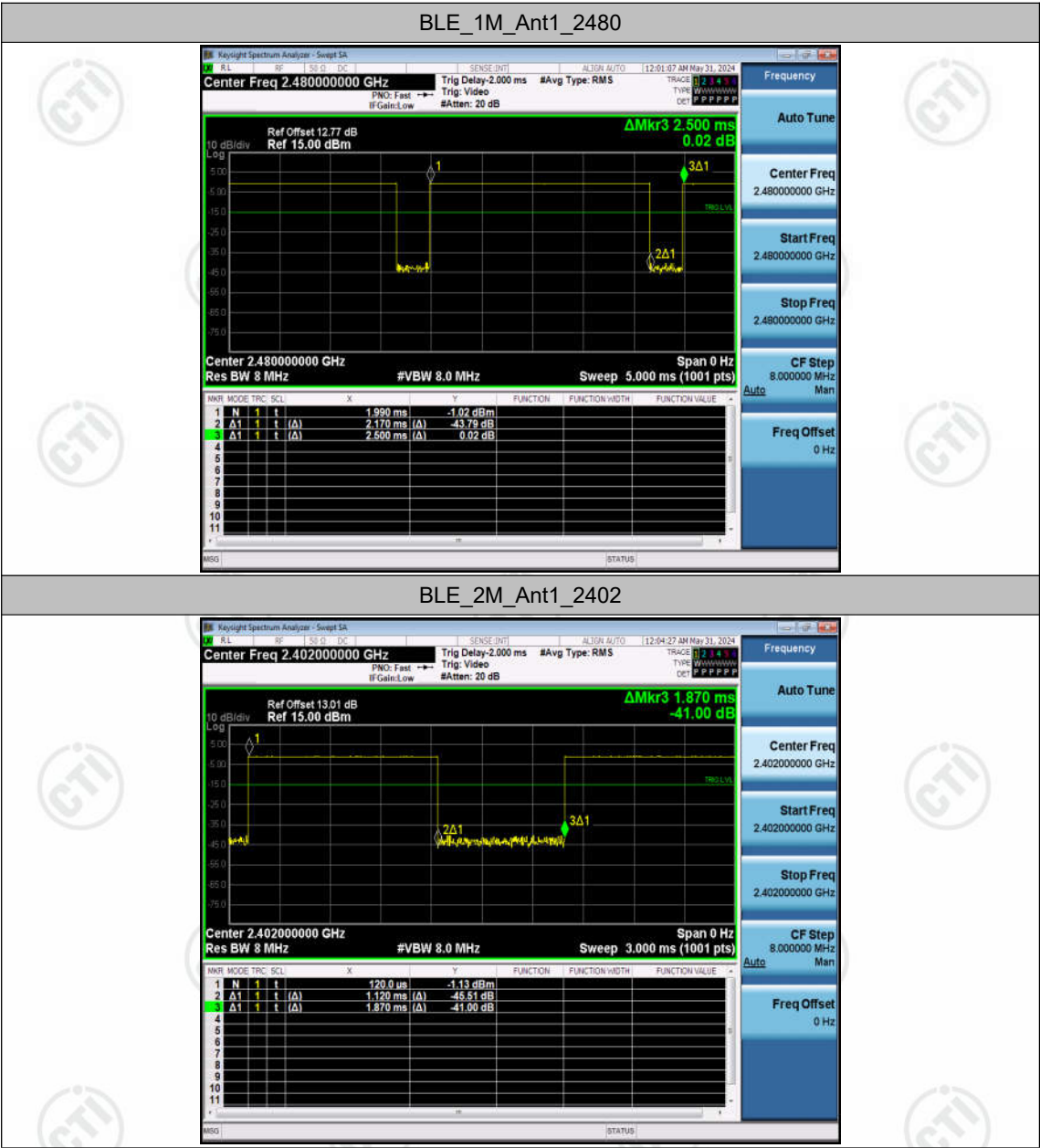


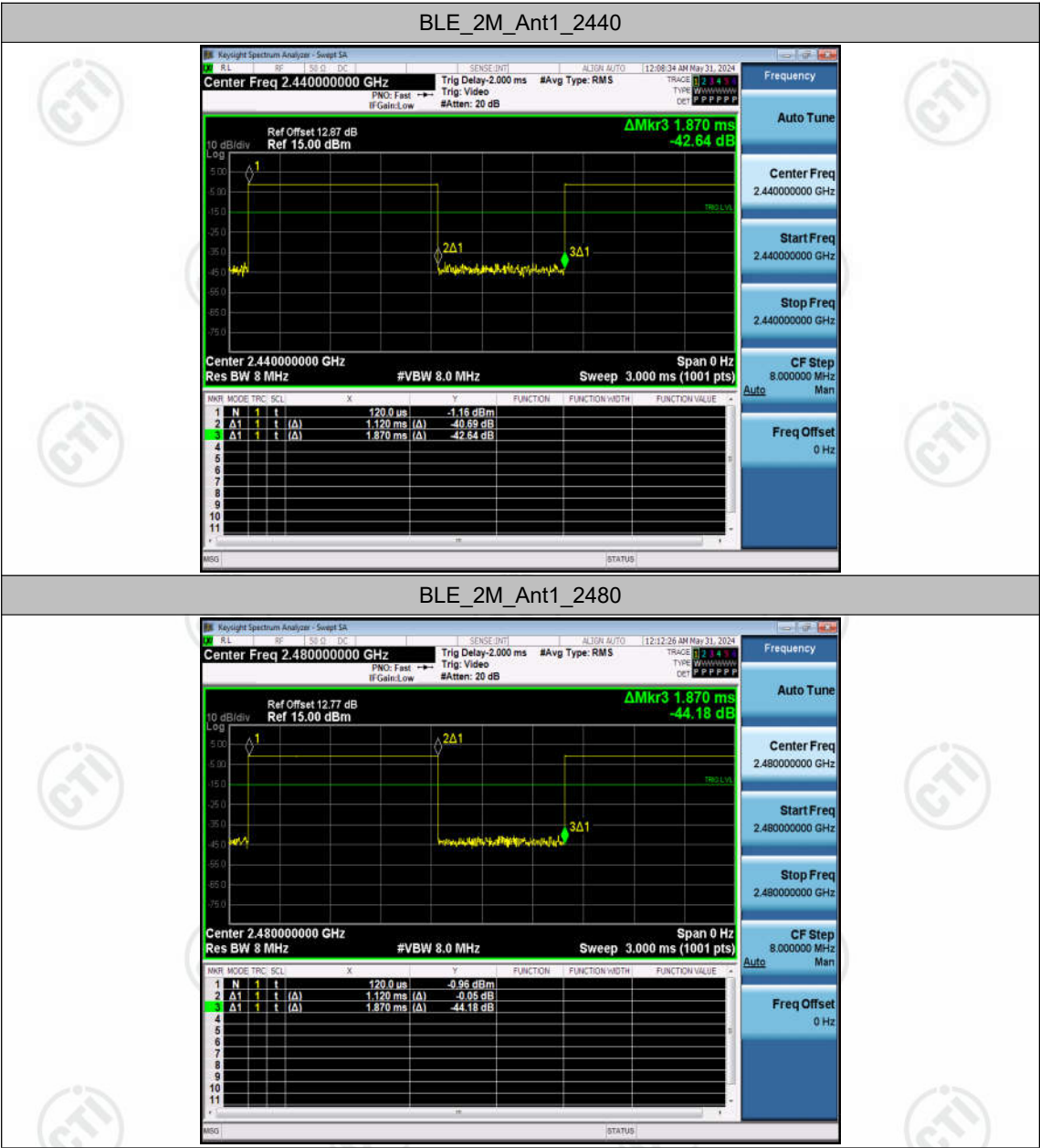


Appendix H: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.17	2.50	86.80	0.61
		2440	2.17	2.50	86.80	0.61
		2480	2.17	2.50	86.80	0.61
BLE_2M	Ant1	2402	1.12	1.87	59.89	2.23
		2440	1.12	1.87	59.89	2.23
		2480	1.12	1.87	59.89	2.23





*** End of Report ***