

Appendix: Bluetooth LE

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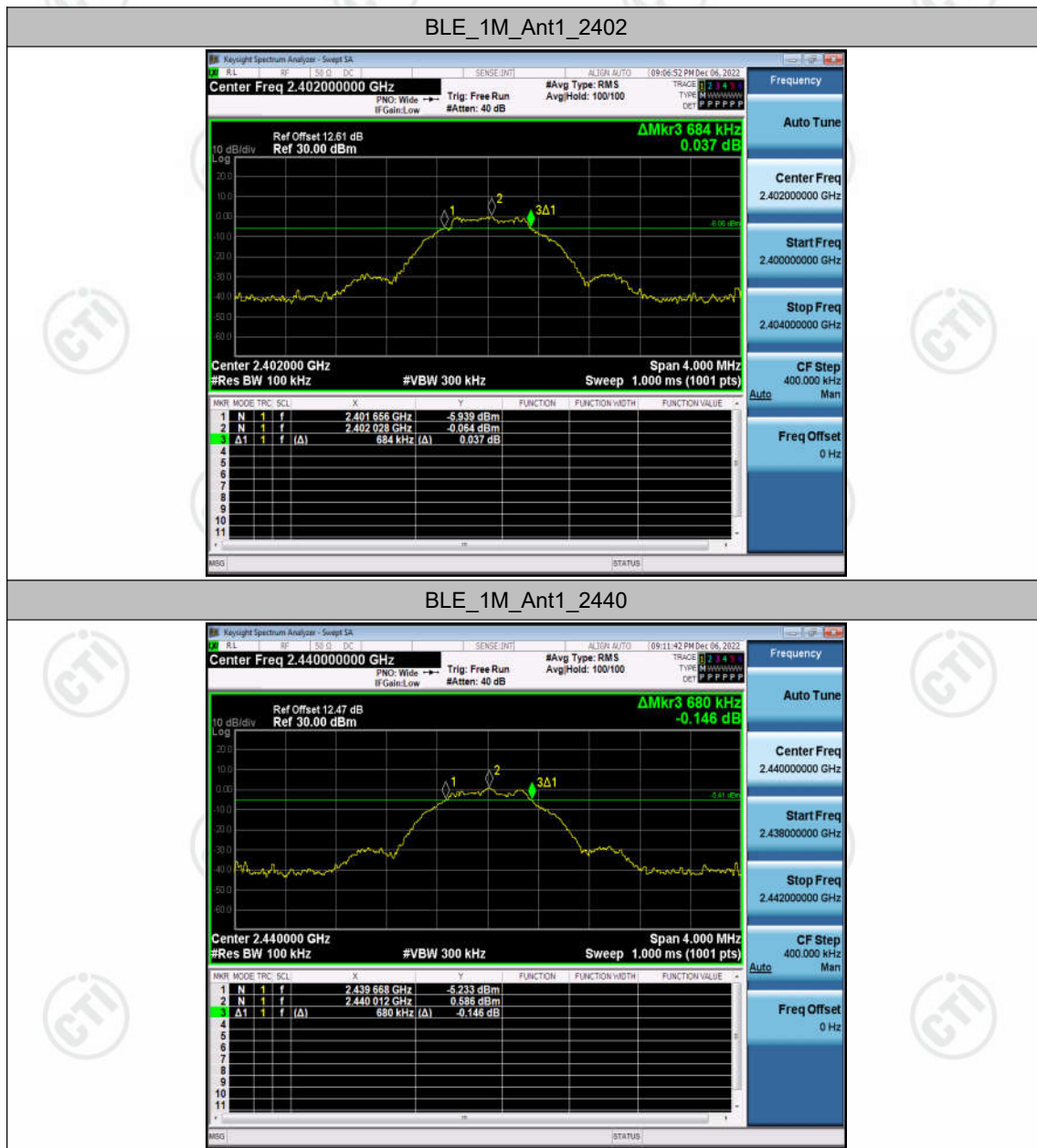
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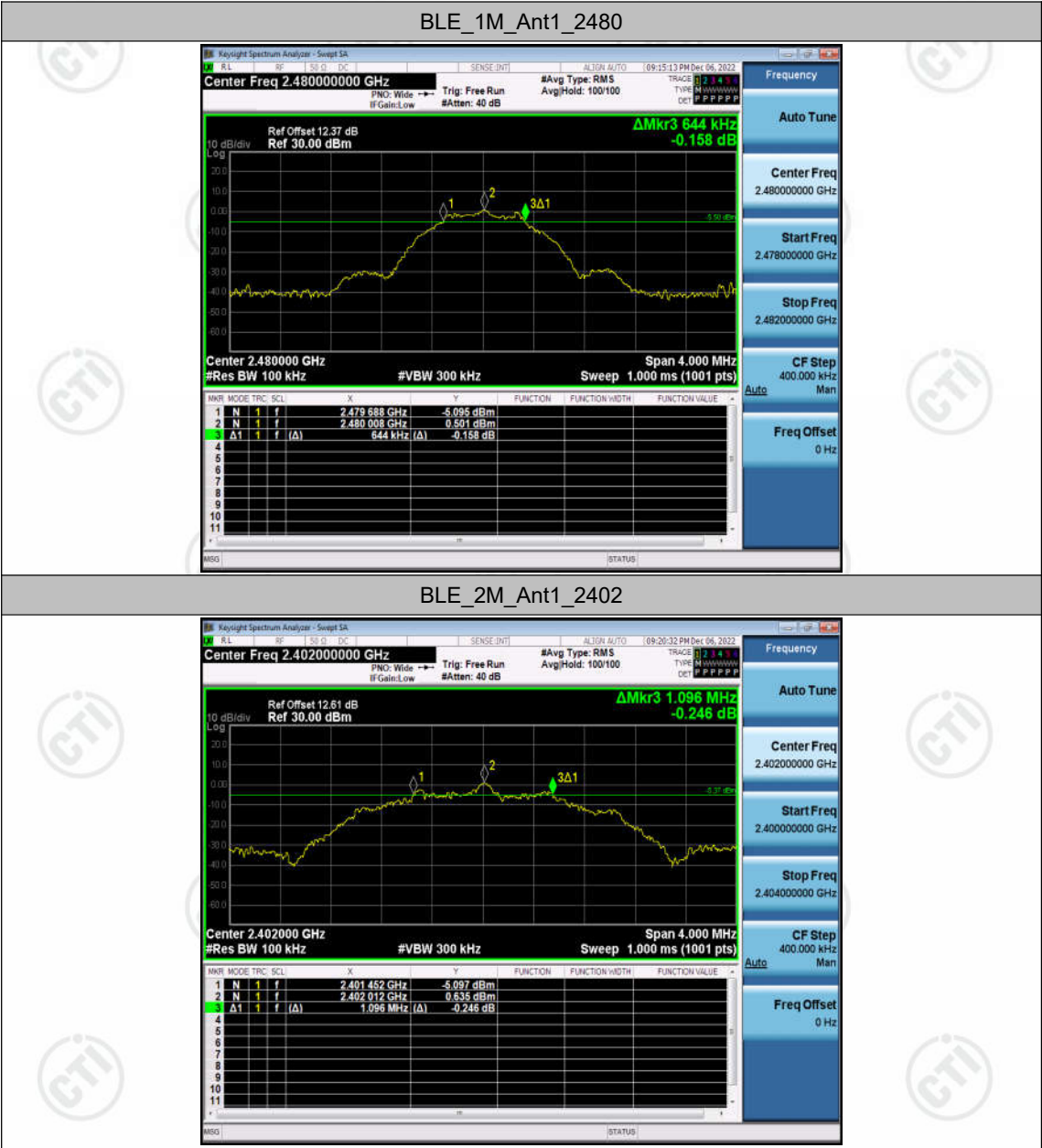
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.656	2402.340	0.5	PASS
		2440	0.680	2439.668	2440.348	0.5	PASS
		2480	0.644	2479.688	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.096	2401.452	2402.548	0.5	PASS
		2440	1.136	2439.444	2440.580	0.5	PASS
		2480	1.084	2479.456	2480.540	0.5	PASS

Test Graphs



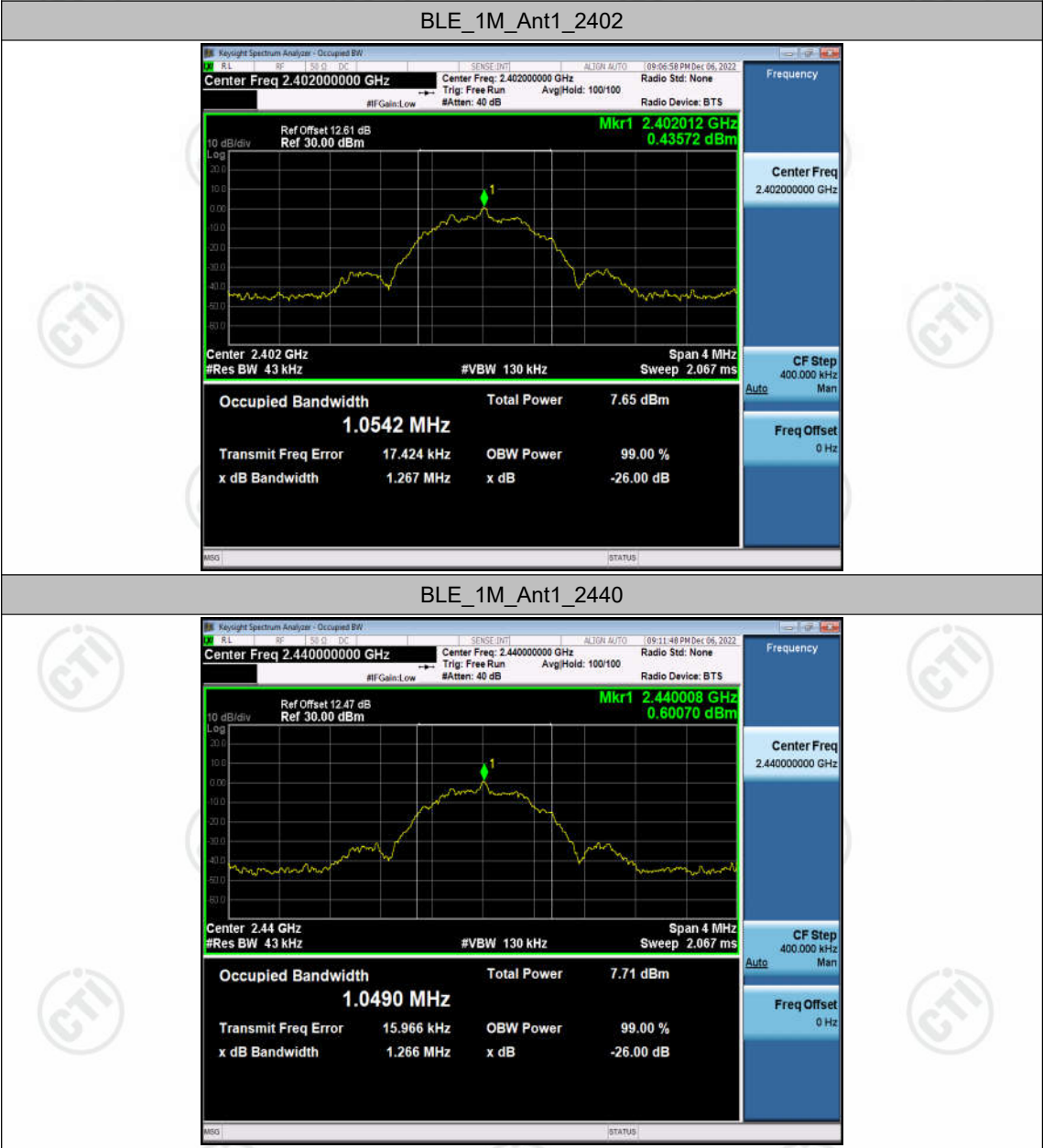


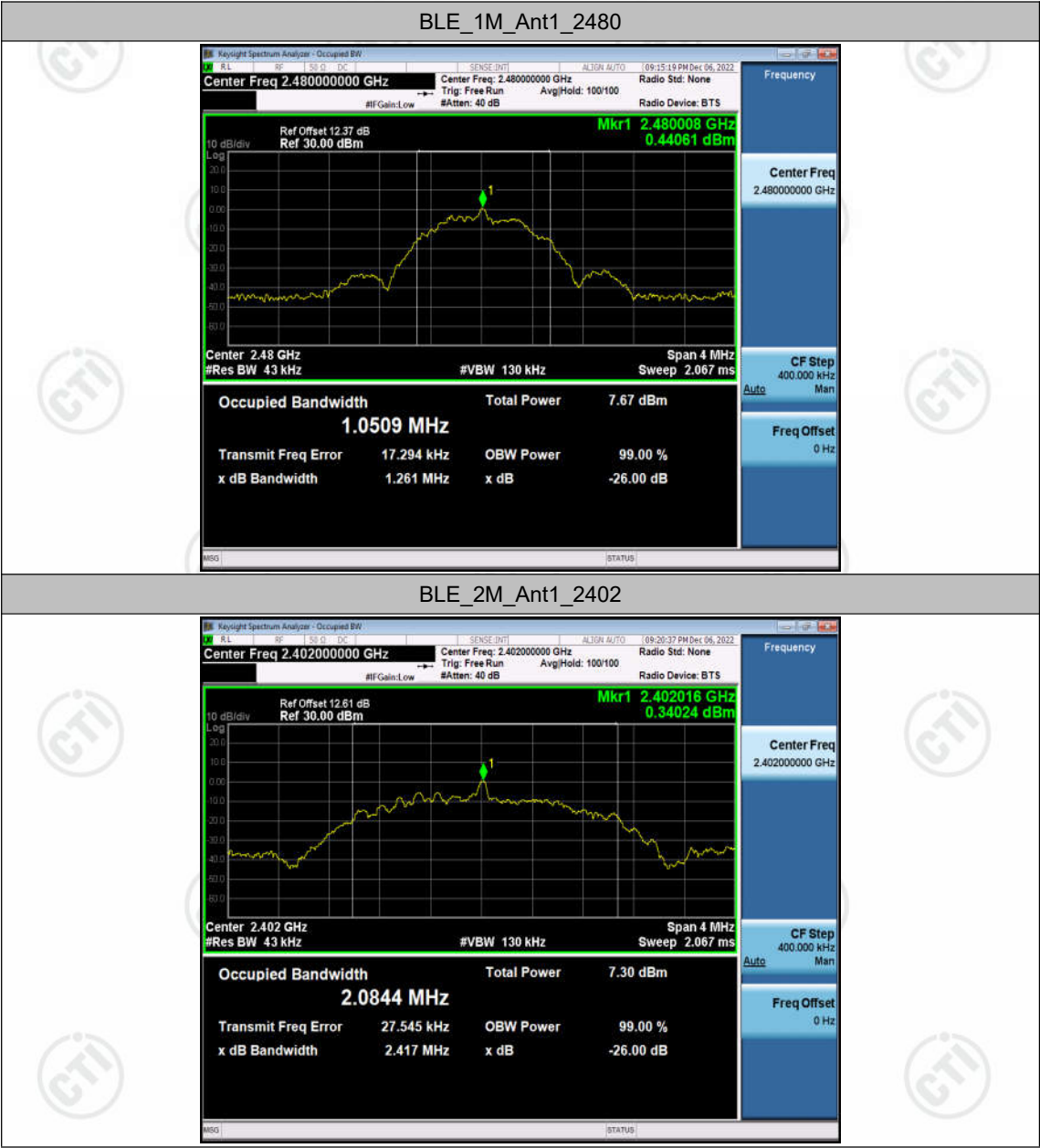
Appendix B: Occupied Channel Bandwidth

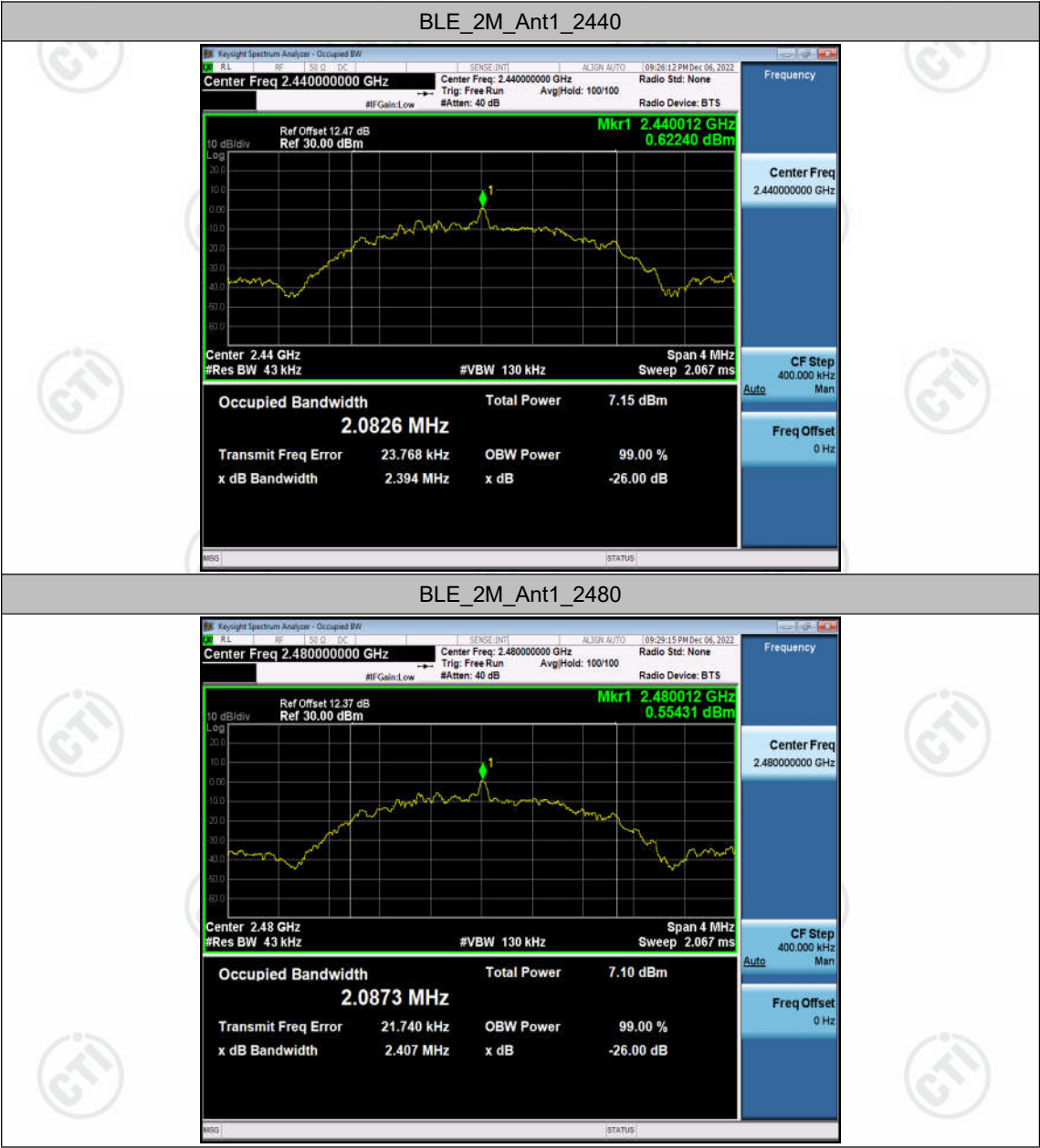
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0542	2401.4903	2402.5445	---	---
		2440	1.0490	2439.4915	2440.5405	---	---
		2480	1.0509	2479.4918	2480.5427	---	---
BLE_2M	Ant1	2402	2.0844	2400.9854	2403.0698	---	---
		2440	2.0826	2438.9825	2441.0651	---	---
		2480	2.0873	2478.9781	2481.0654	---	---

Test Graphs





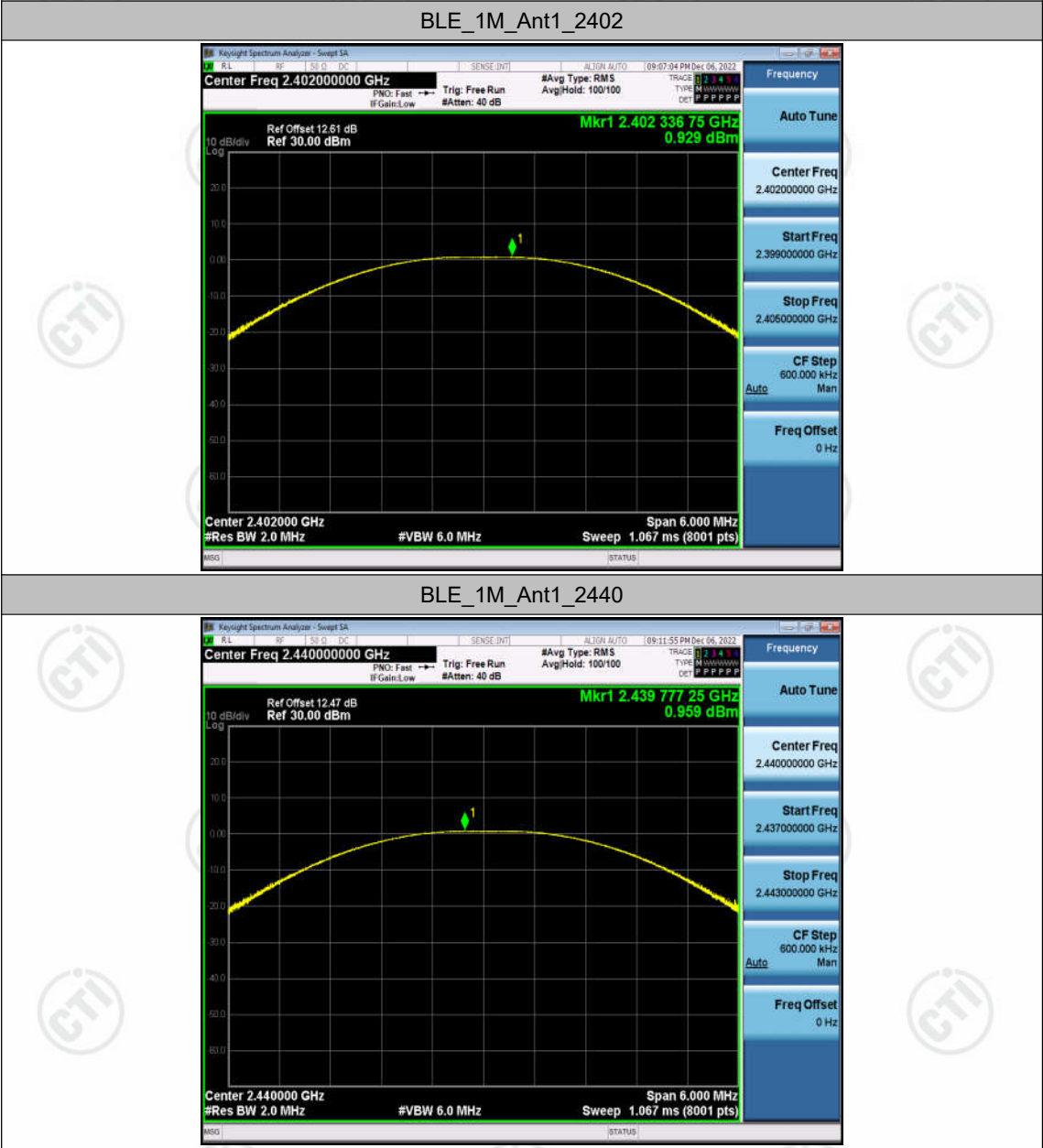


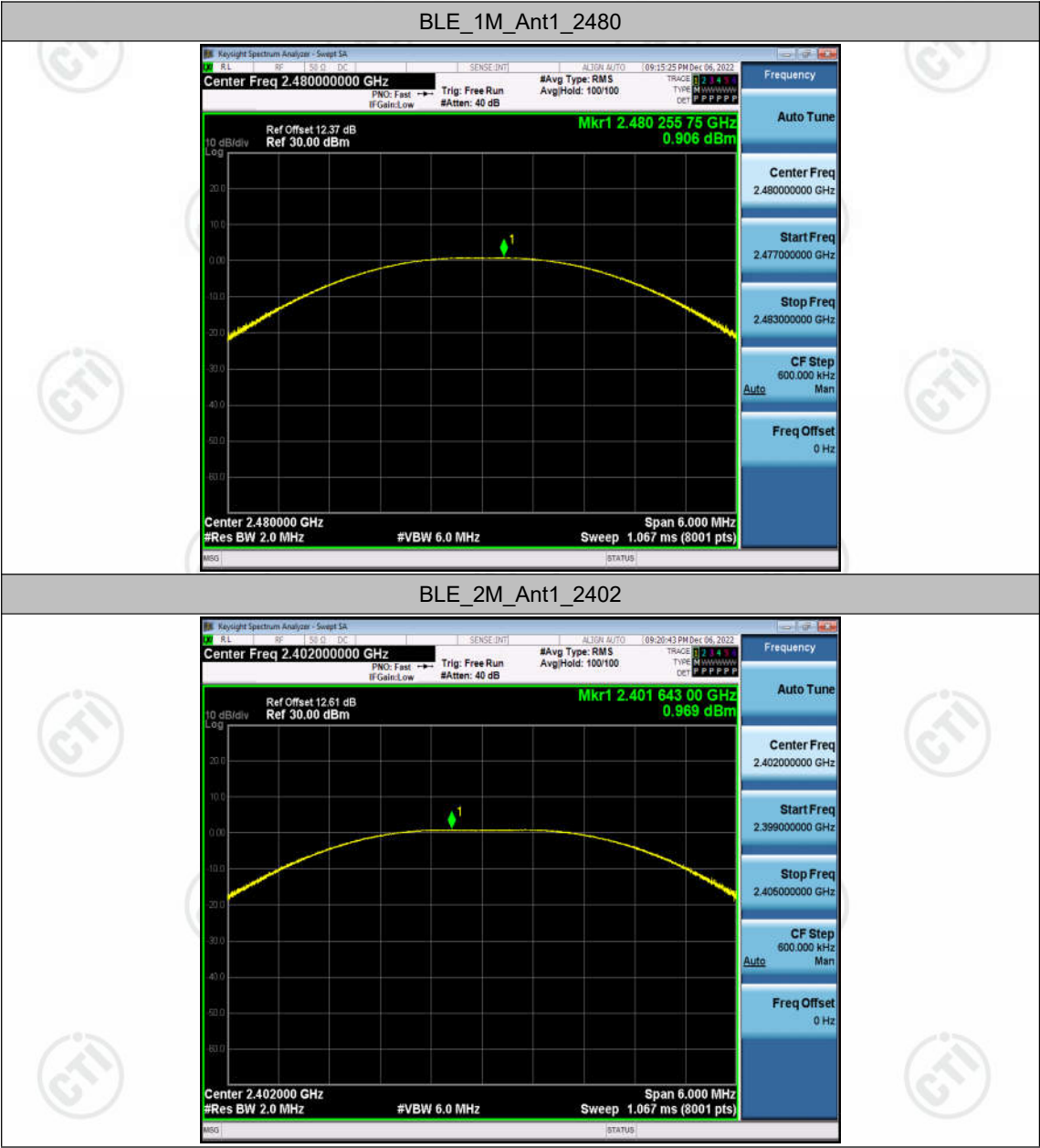
Appendix C: Maximum conducted output power

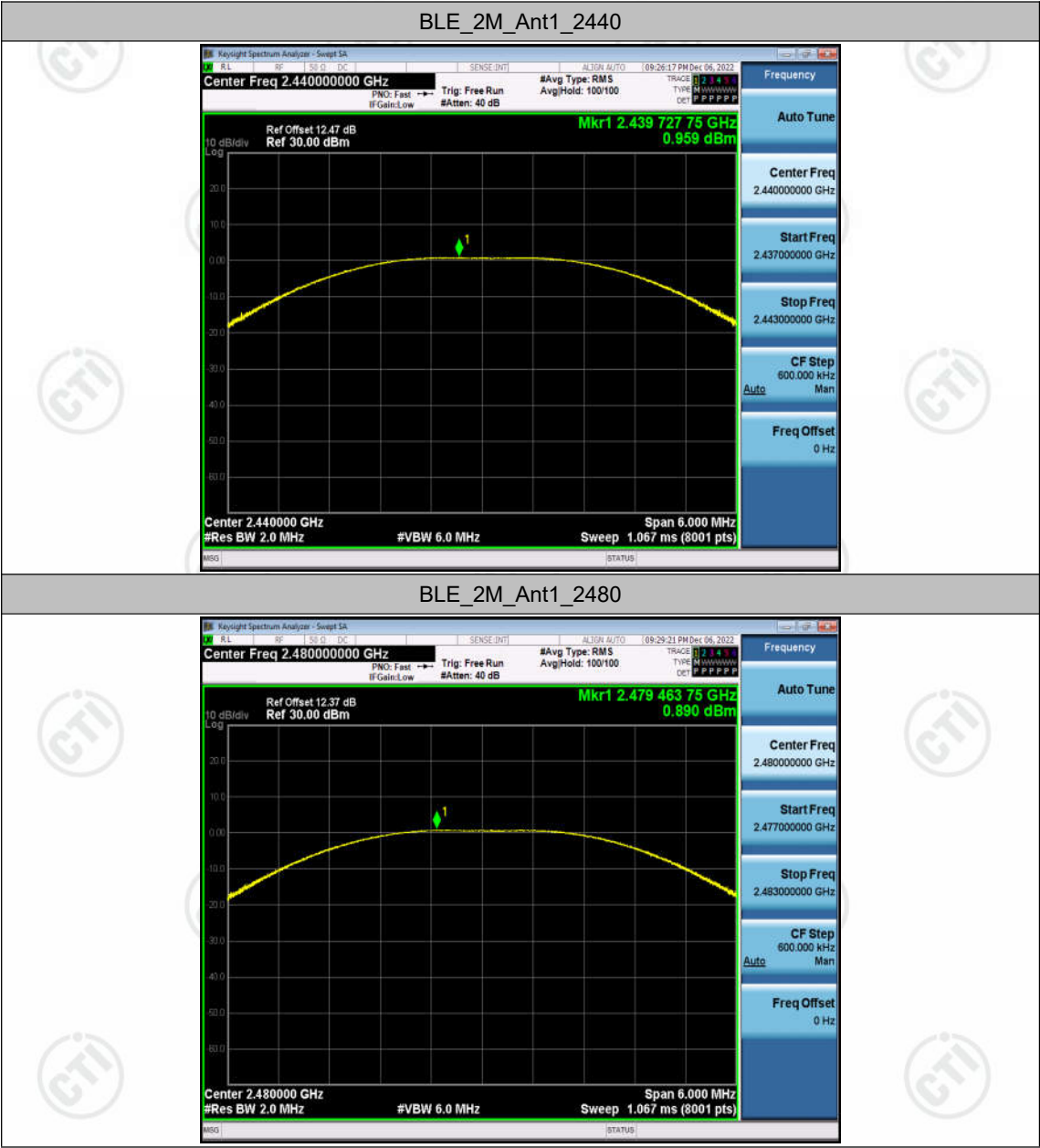
Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.93	≤30	PASS
		2440	0.96	≤30	PASS
		2480	0.91	≤30	PASS
BLE_2M	Ant1	2402	0.97	≤30	PASS
		2440	0.96	≤30	PASS
		2480	0.89	≤30	PASS

Test Graphs





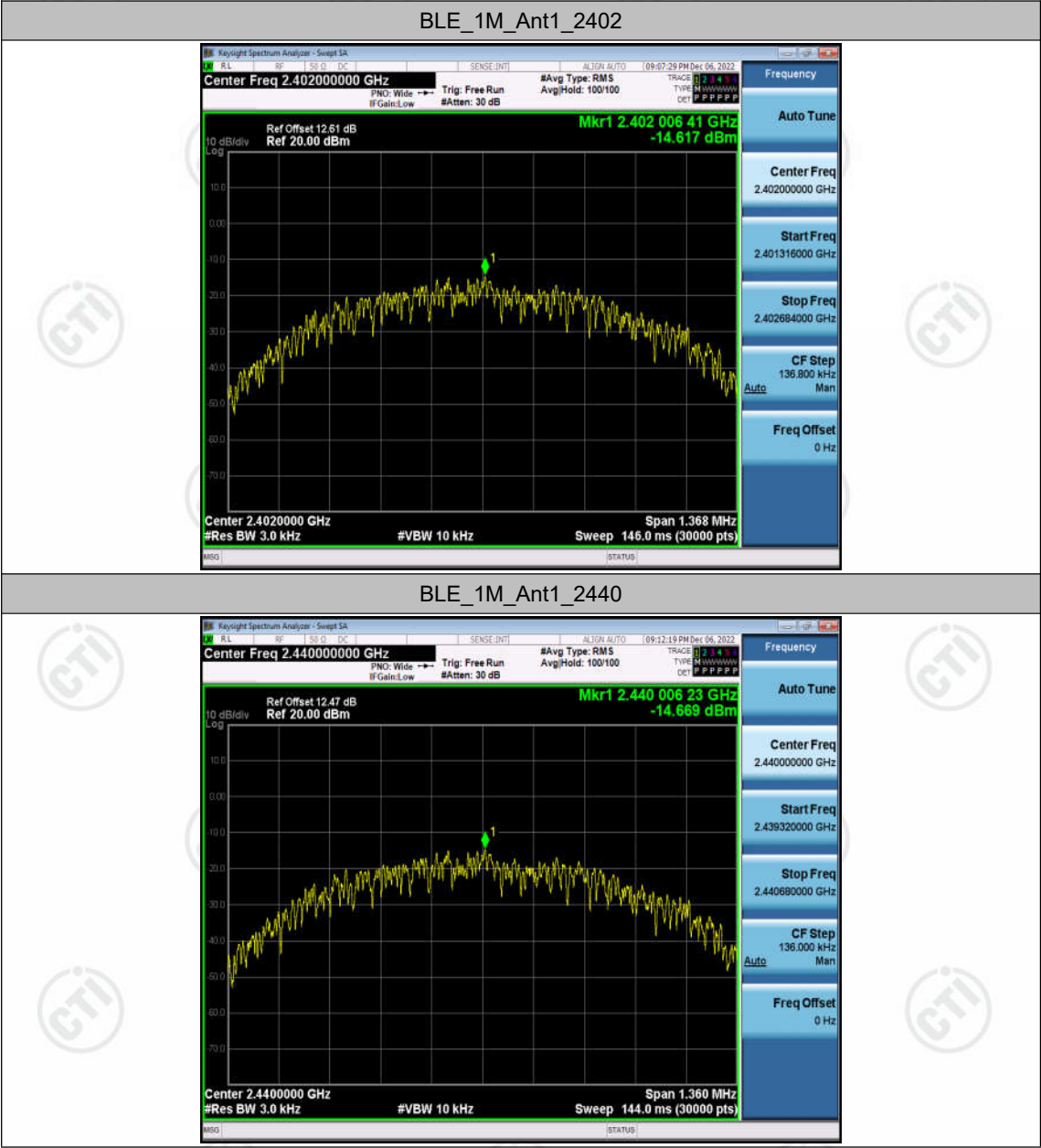


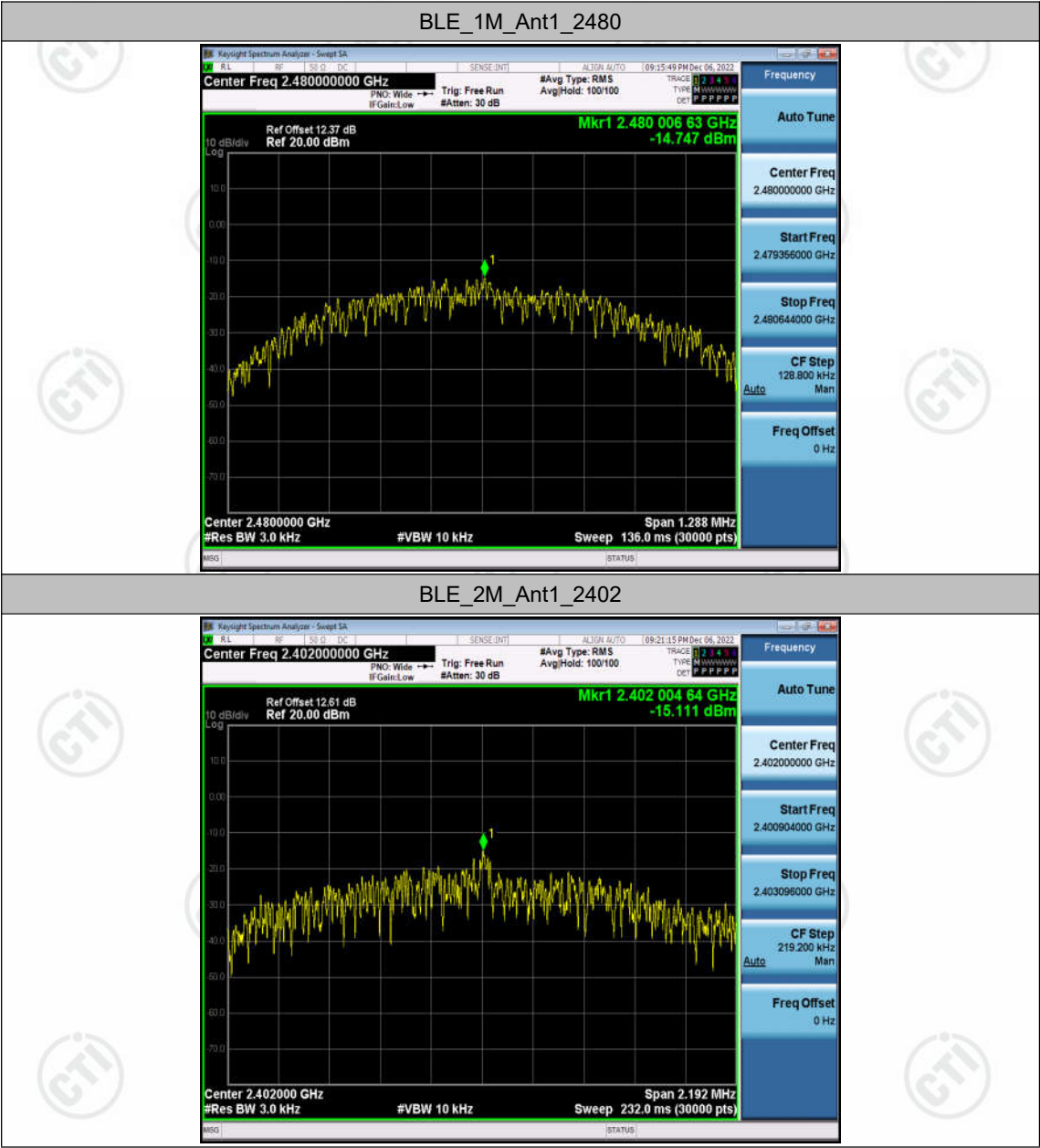
Appendix D: Maximum power spectral density

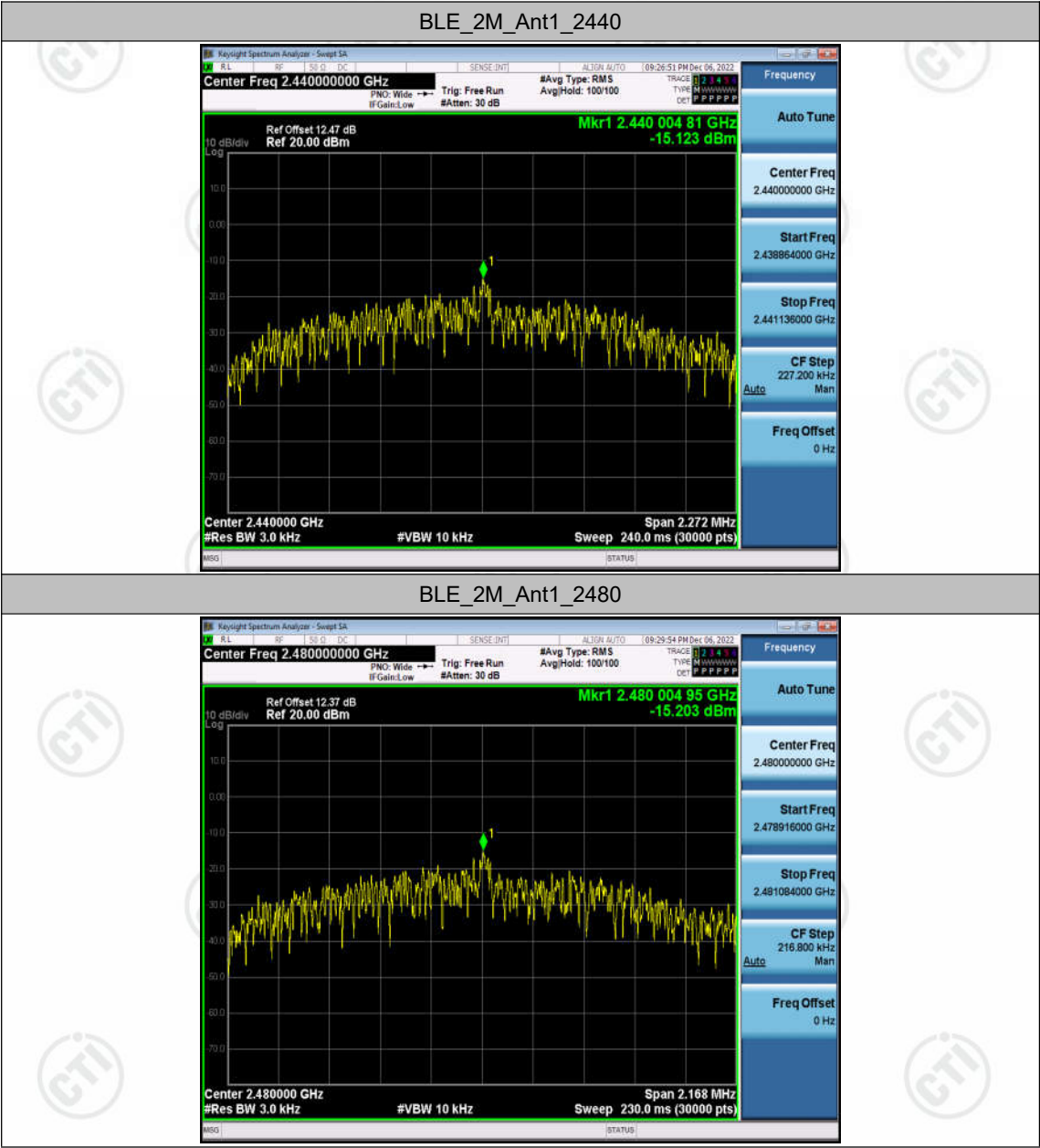
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.62	≤8.00	PASS
		2440	-14.67	≤8.00	PASS
		2480	-14.75	≤8.00	PASS
BLE_2M	Ant1	2402	-15.11	≤8.00	PASS
		2440	-15.12	≤8.00	PASS
		2480	-15.2	≤8.00	PASS

Test Graphs





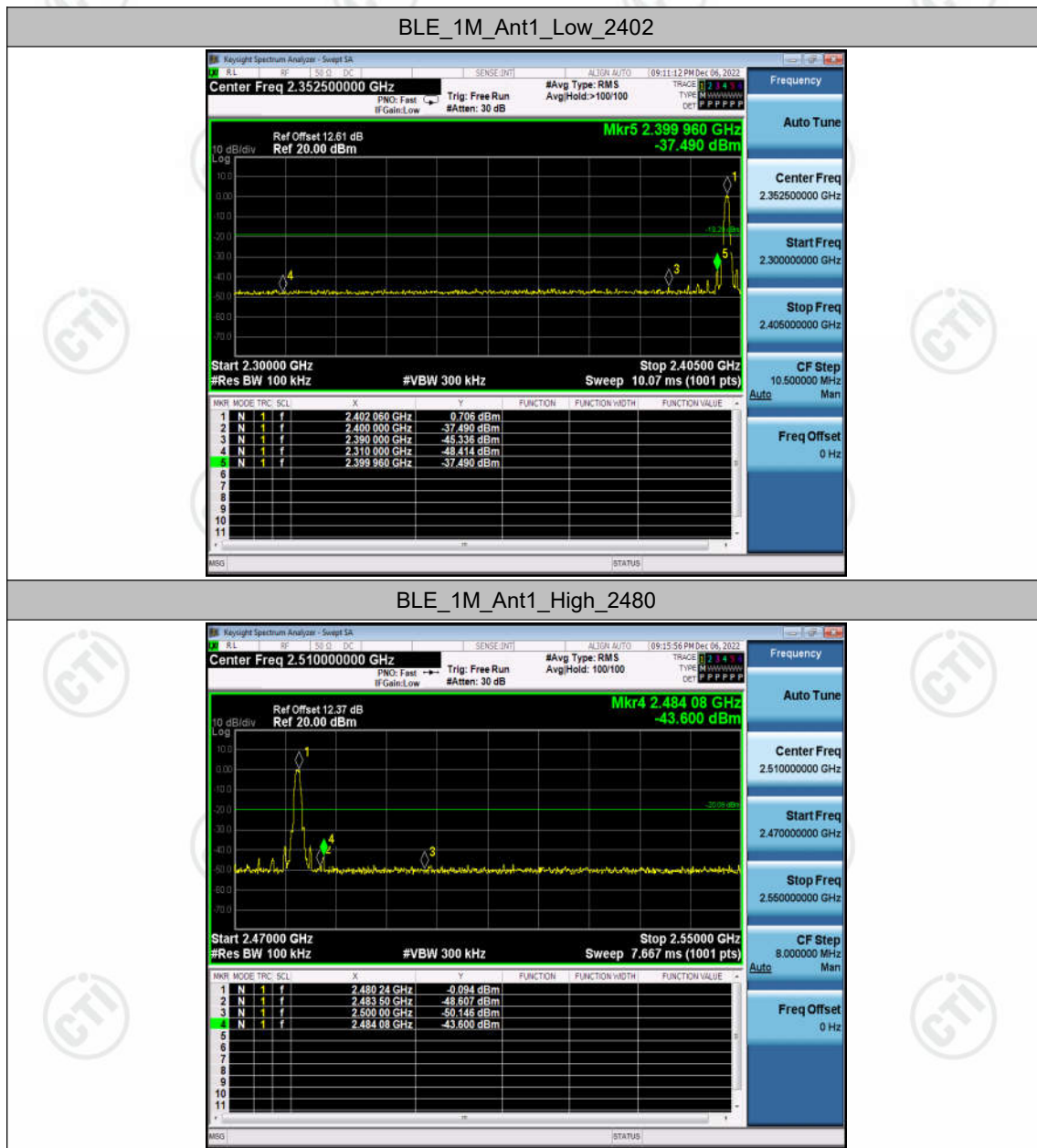


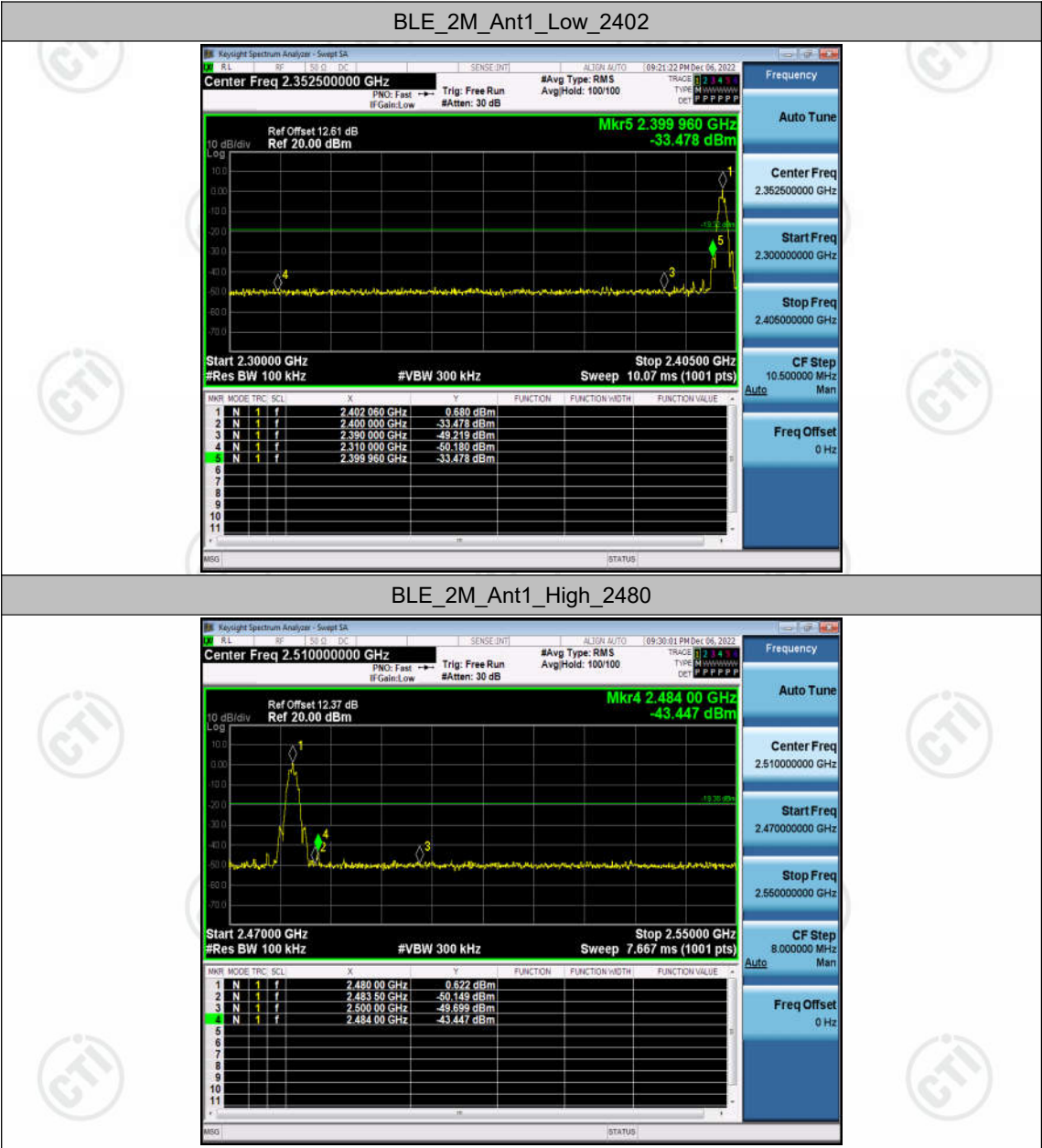
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.71	-37.49	≤-19.29	PASS
		High	2480	-0.09	-43.6	≤-20.09	PASS
BLE_2M	Ant1	Low	2402	0.68	-33.48	≤-19.32	PASS
		High	2480	0.62	-43.45	≤-19.38	PASS

Test Graphs



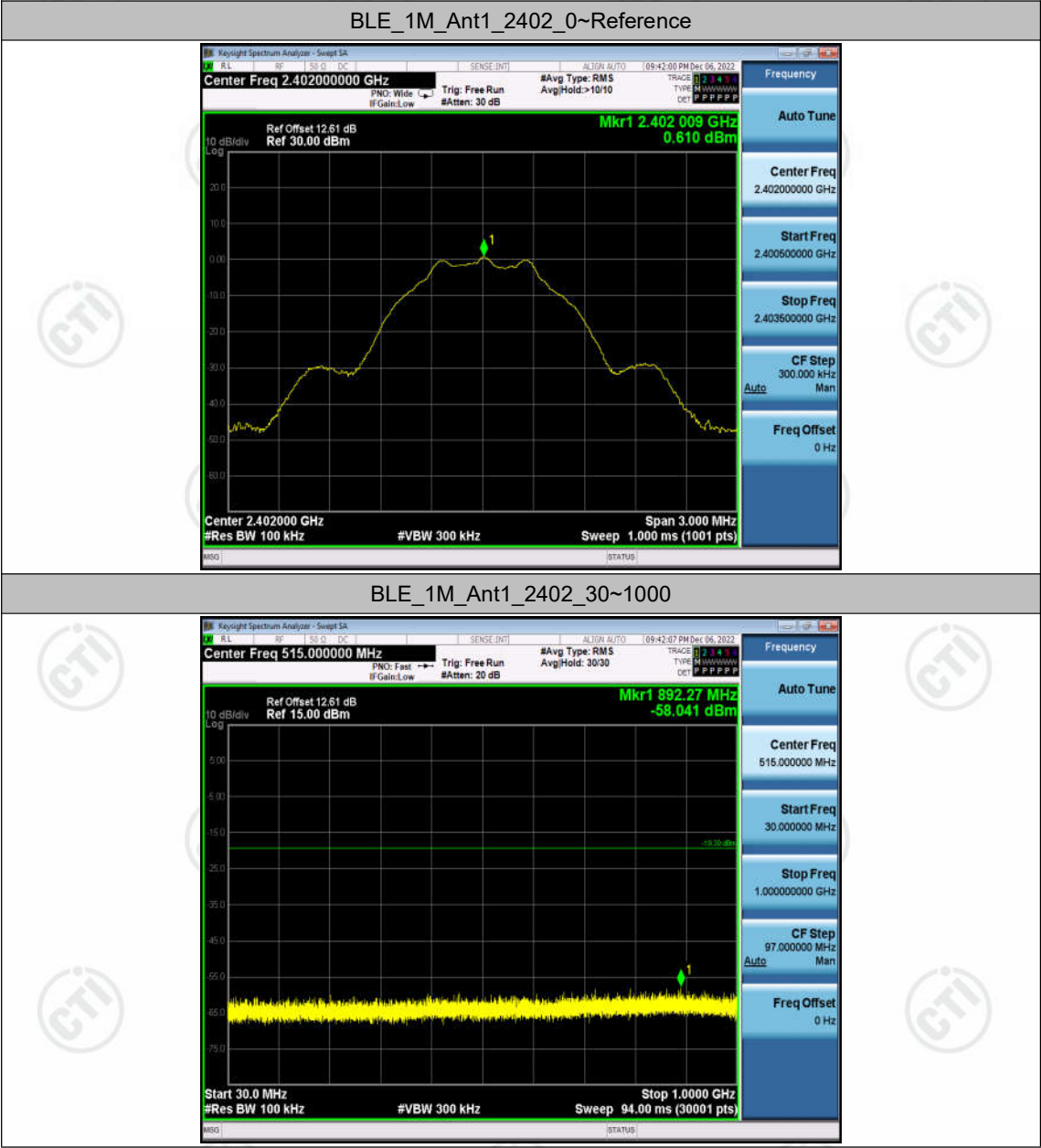


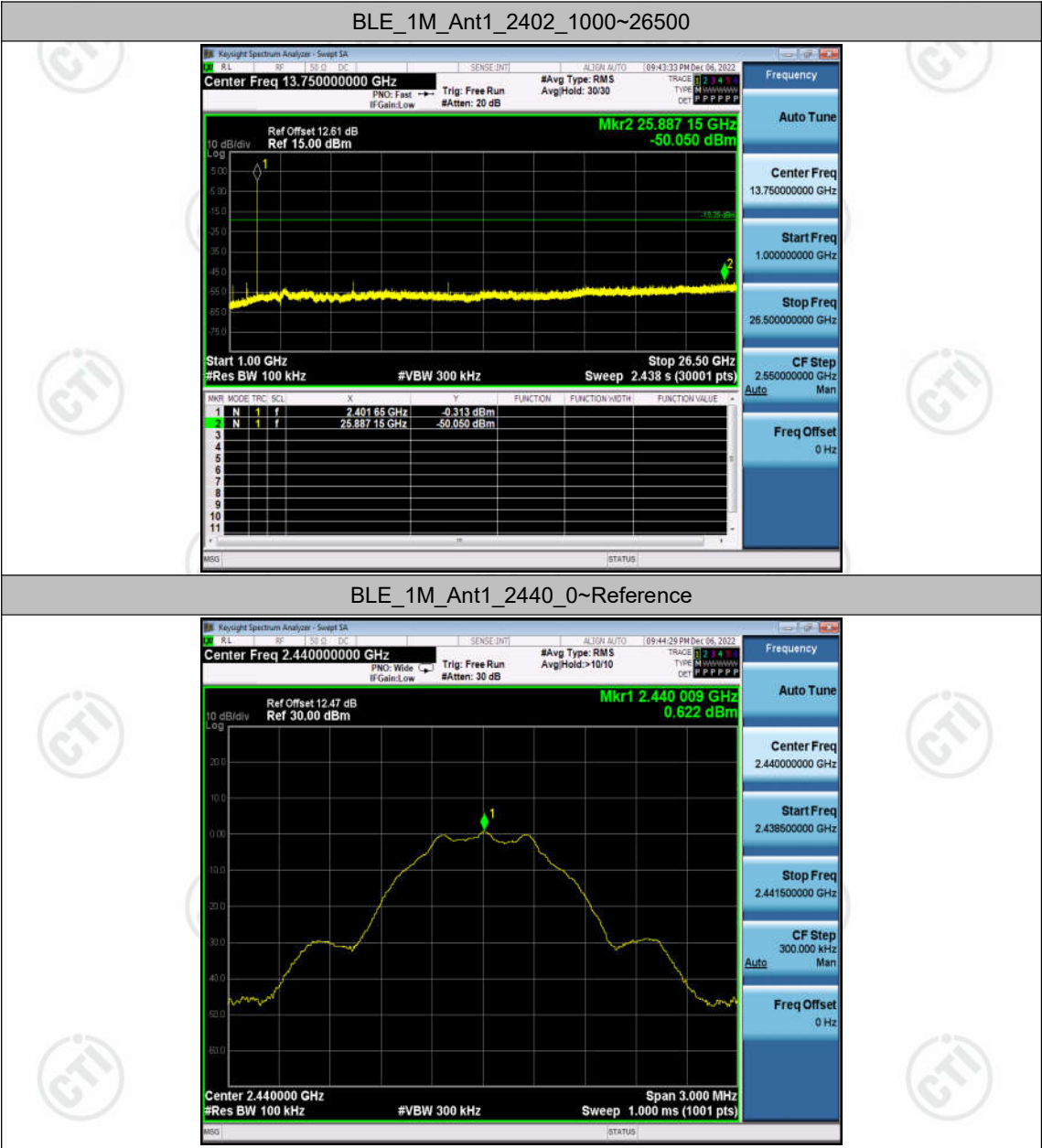
Appendix F: Conducted Spurious Emission

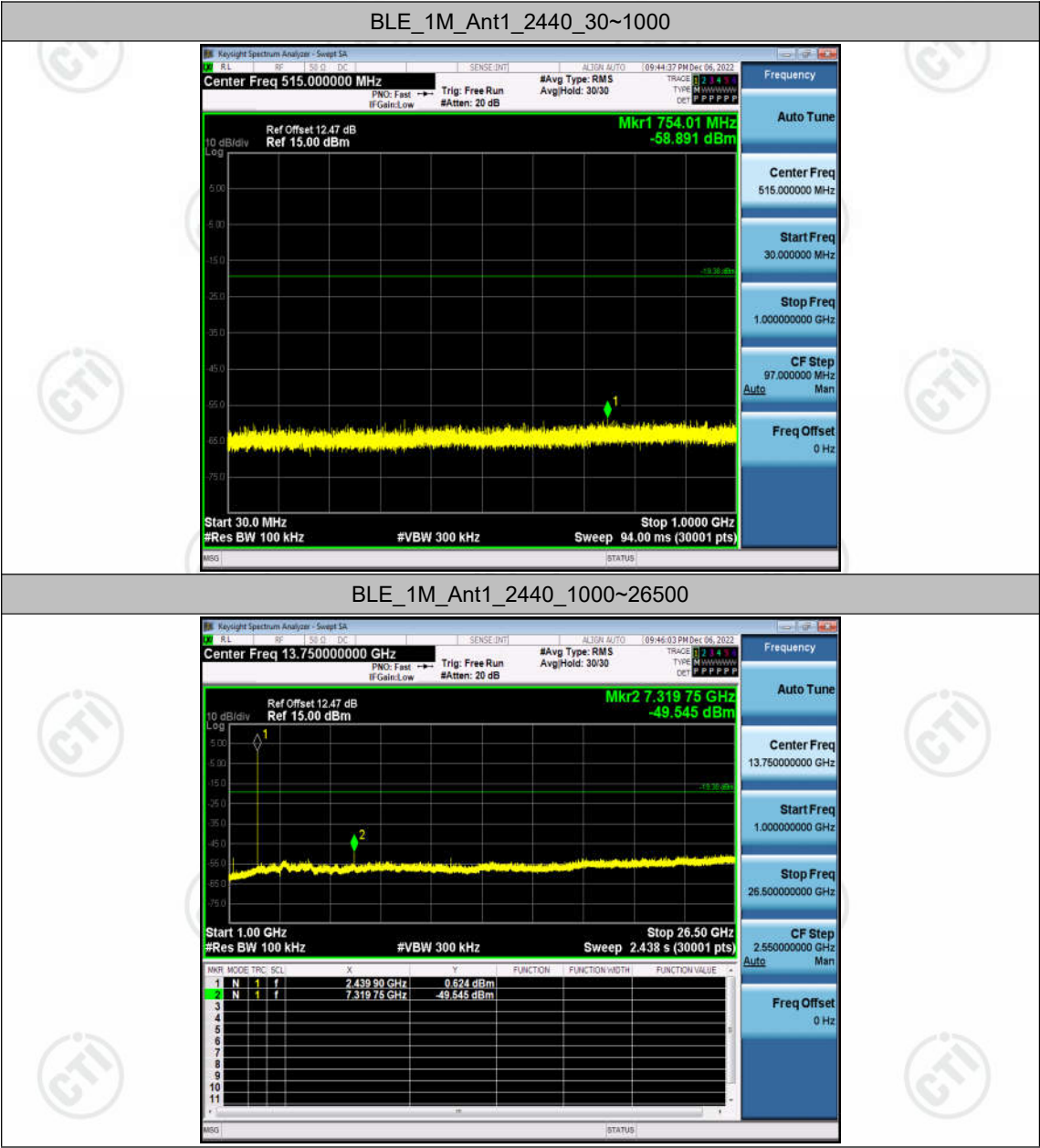
Test Result

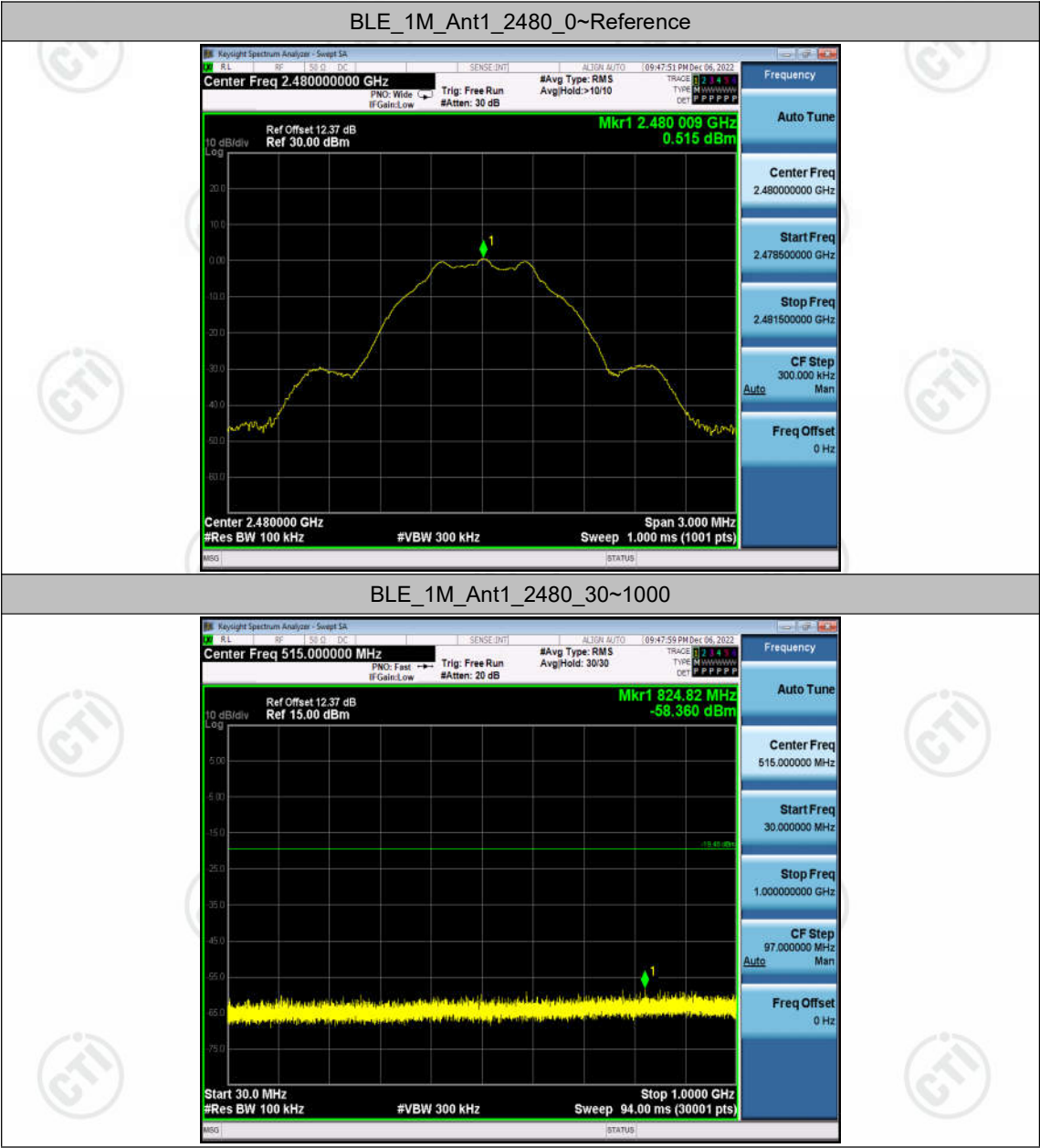
Test Mode	Antenna	Frequency [MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.61	0.61	---	PASS
			30~1000	0.61	-58.04	≤-19.39	PASS
			1000~26500	0.61	-50.05	≤-19.39	PASS
		2440	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-58.89	≤-19.38	PASS
			1000~26500	0.62	-49.55	≤-19.38	PASS
		2480	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-58.36	≤-19.48	PASS
			1000~26500	0.52	-49.99	≤-19.48	PASS
BLE_2M	Ant1	2402	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-58.01	≤-19.38	PASS
			1000~26500	0.62	-49.16	≤-19.38	PASS
		2440	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-57.09	≤-19.37	PASS
			1000~26500	0.63	-49.91	≤-19.37	PASS
		2480	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-55.56	≤-19.45	PASS
			1000~26500	0.55	-50.24	≤-19.45	PASS

Test Graphs

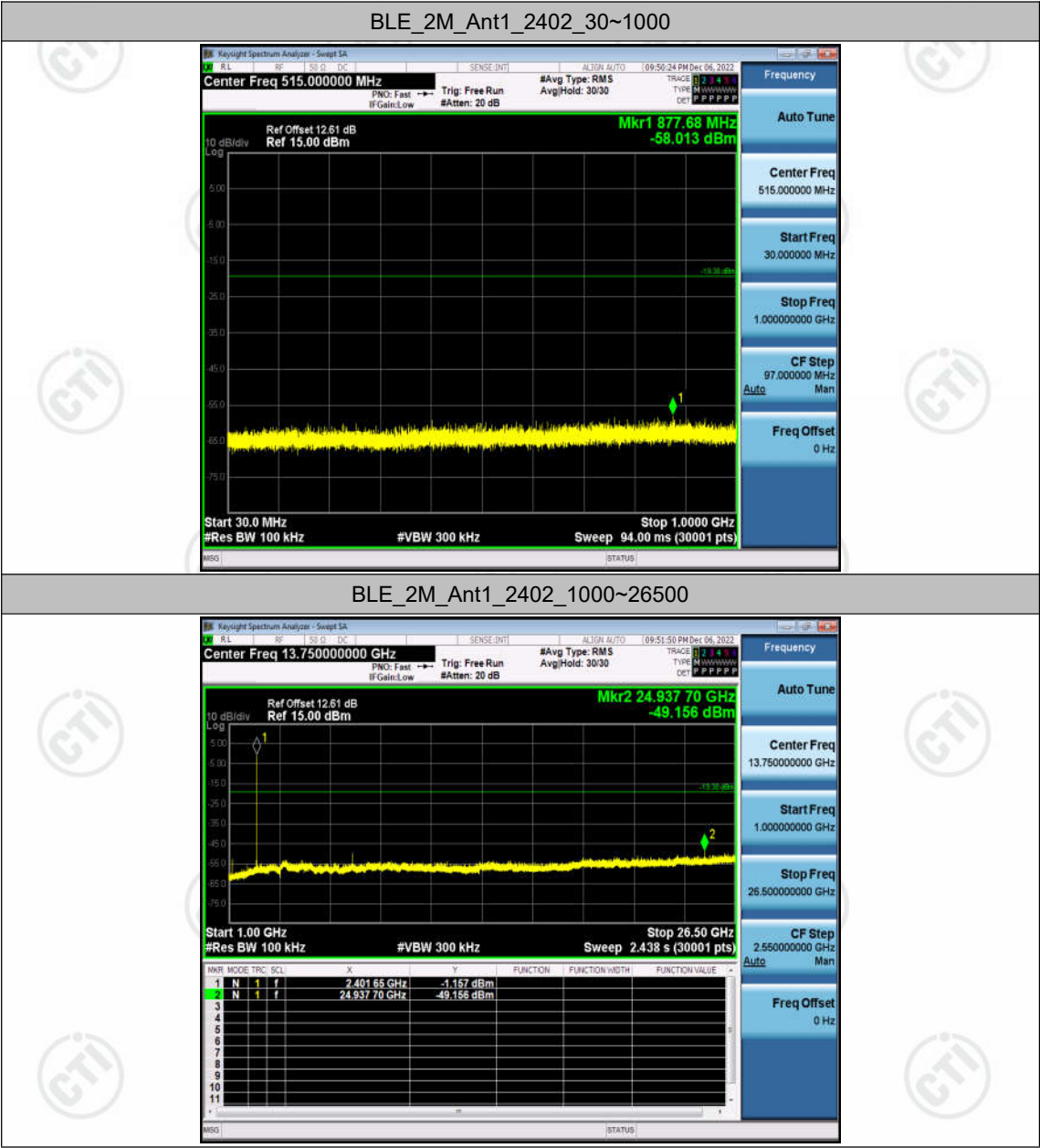


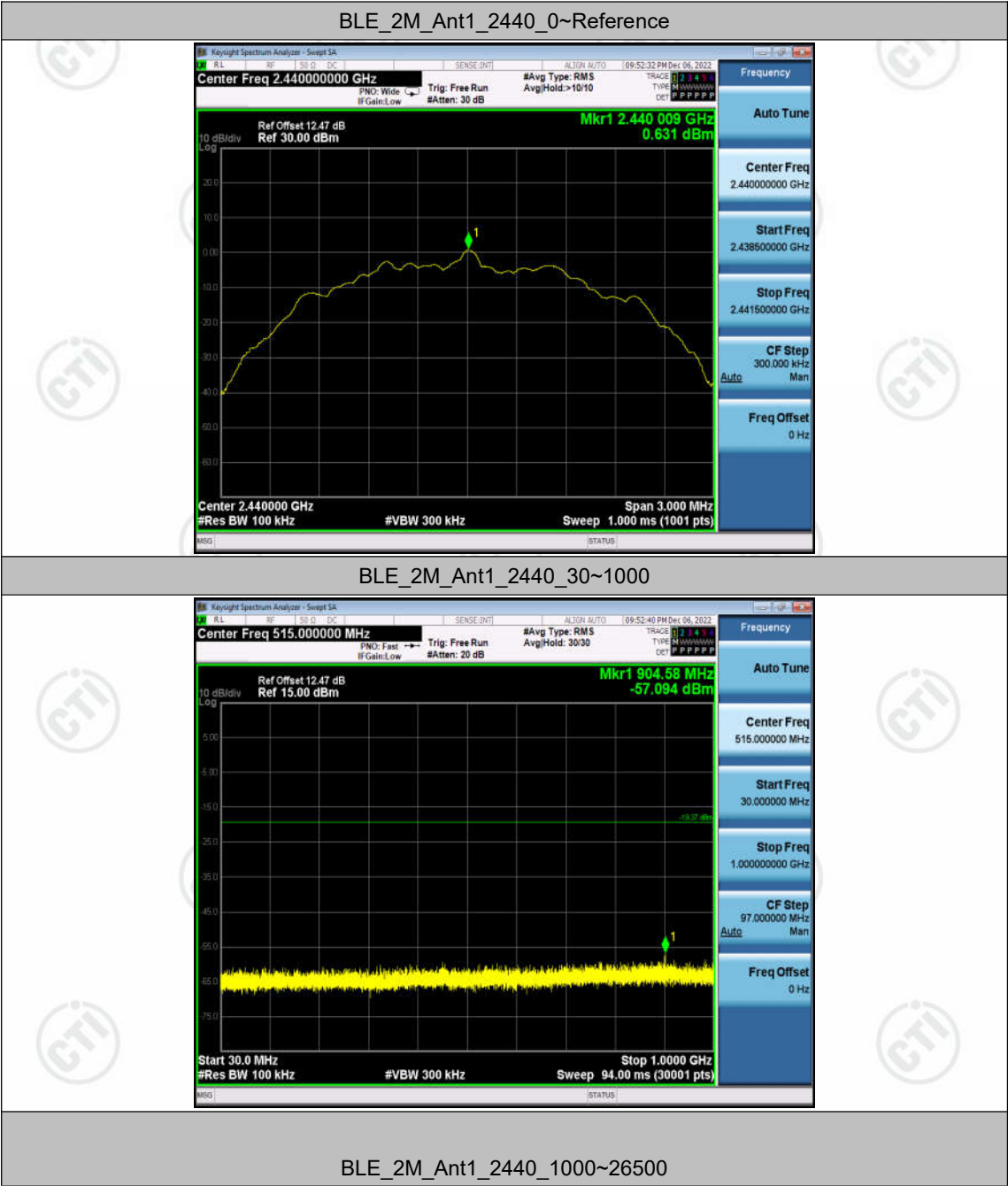


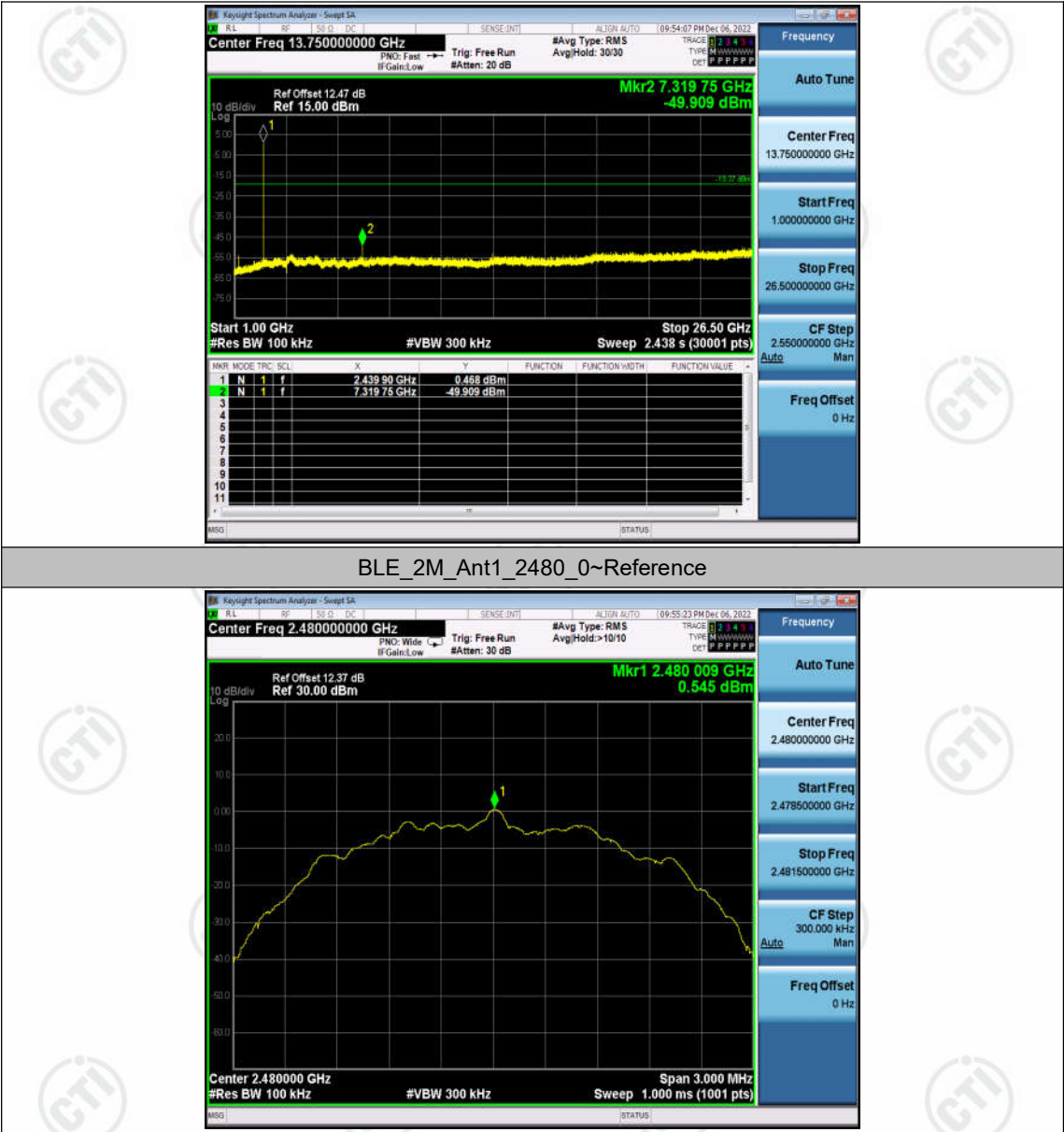


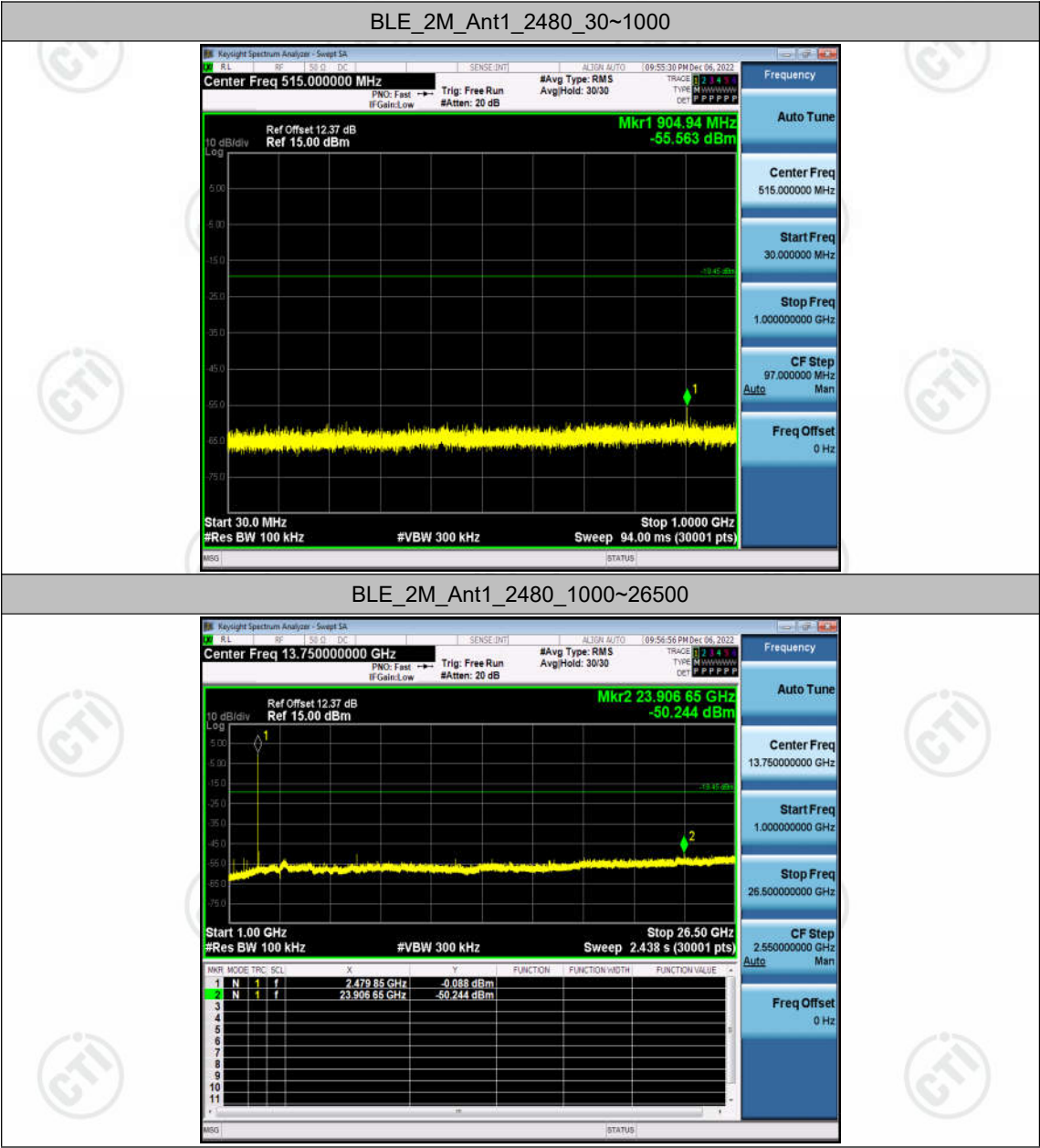










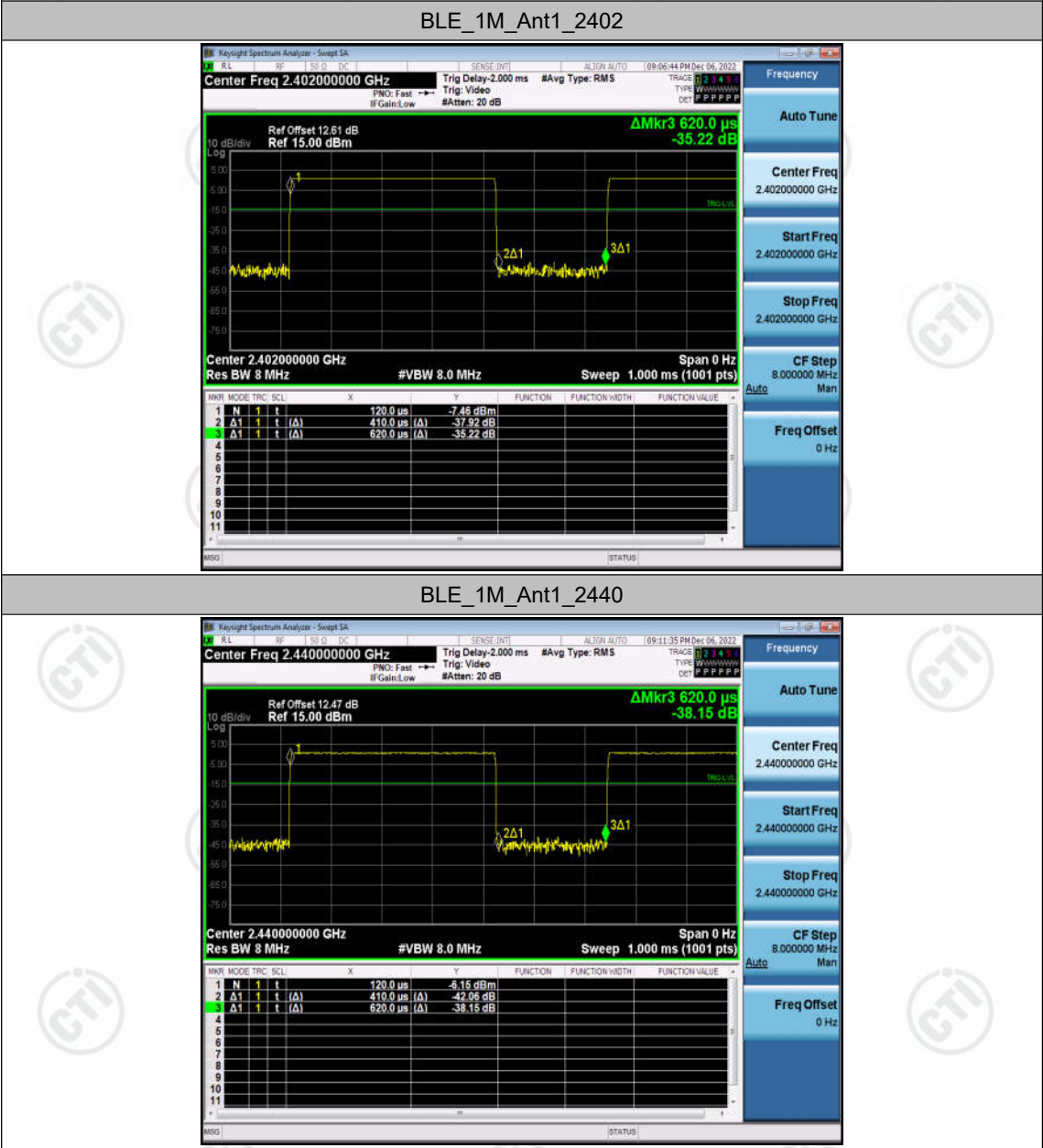


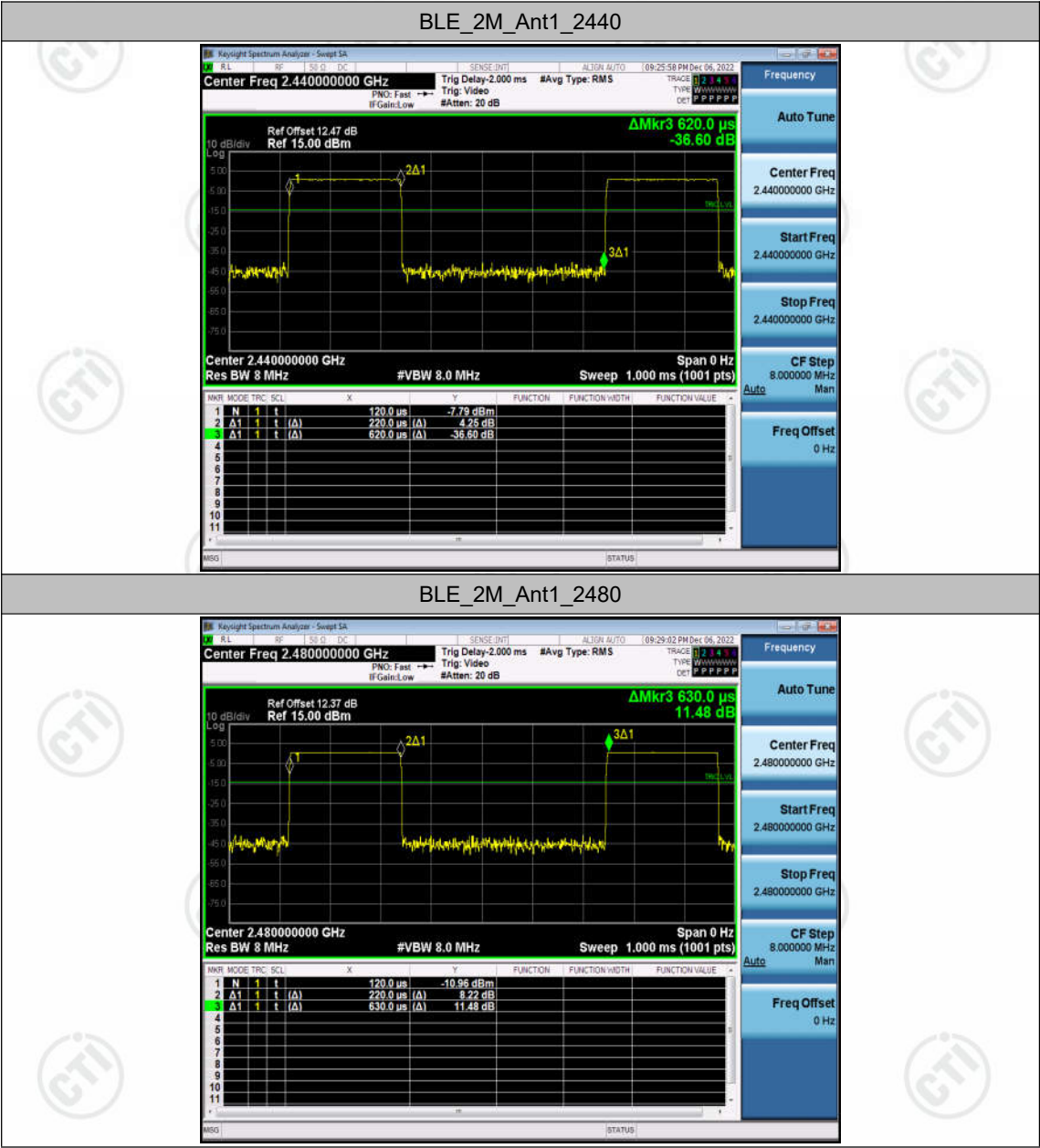
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.62	66.13	1.80
		2440	0.41	0.62	66.13	1.80
		2480	0.41	0.62	66.13	1.80
BLE_2M	Ant1	2402	0.22	0.62	35.48	4.50
		2440	0.22	0.62	35.48	4.50
		2480	0.22	0.63	34.92	4.57

Test Graphs





*** End of Report ***