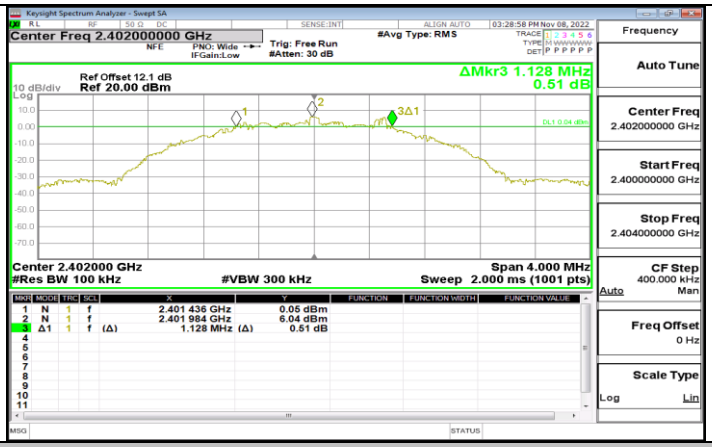
12.1.2. Test Graphs

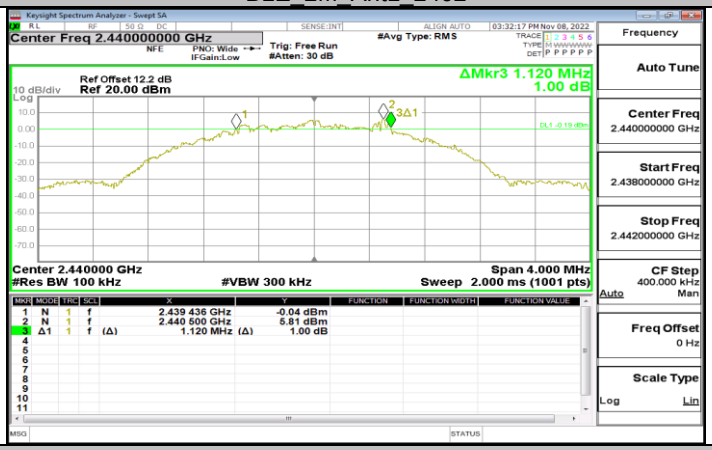
BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

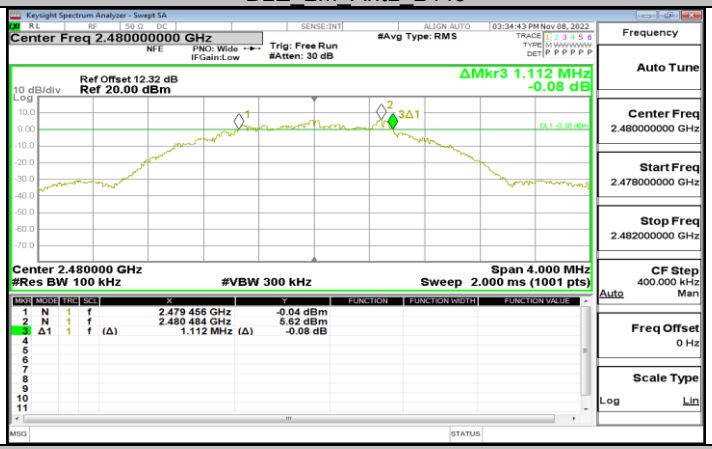
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



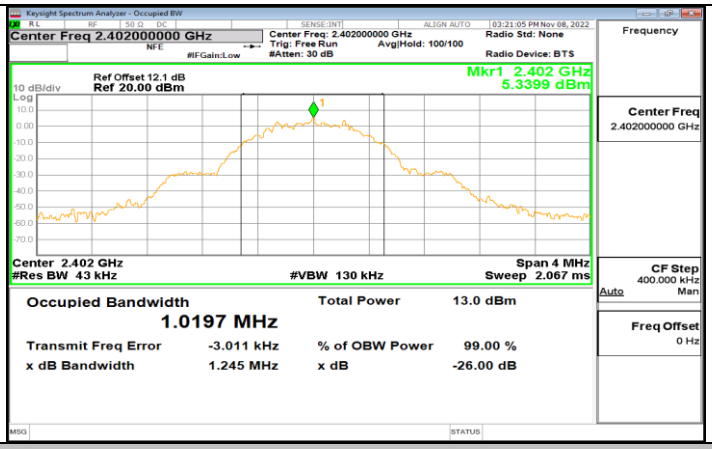
BLE_2M_Ant1_2480

12.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

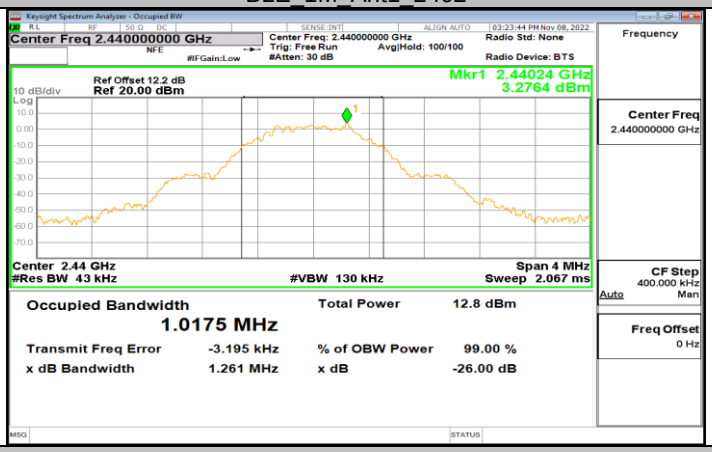
12.2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant1	2402	1.0197	2401.4871	2402.5068	PASS
		2440	1.0175	2439.4881	2440.5056	PASS
		2480	1.0112	2479.4918	2480.5030	PASS
BLE_2M	Ant1	2402	1.9594	2401.0268	2402.9862	PASS
		2440	1.9682	2439.0247	2440.9929	PASS
		2480	1.9440	2479.0344	2480.9784	PASS

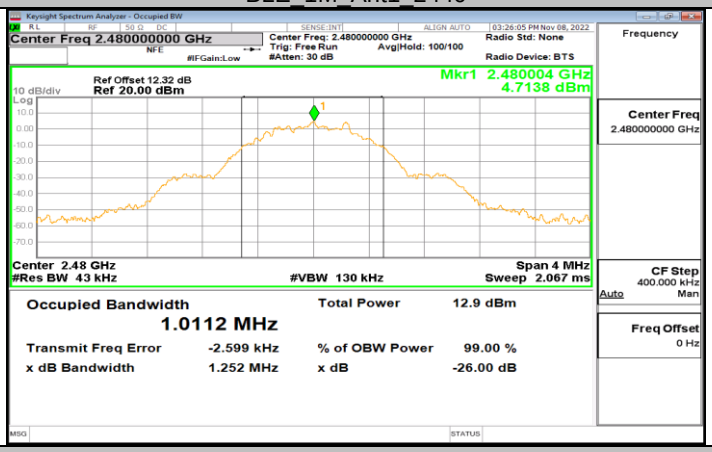
12.2.2. Test Graphs



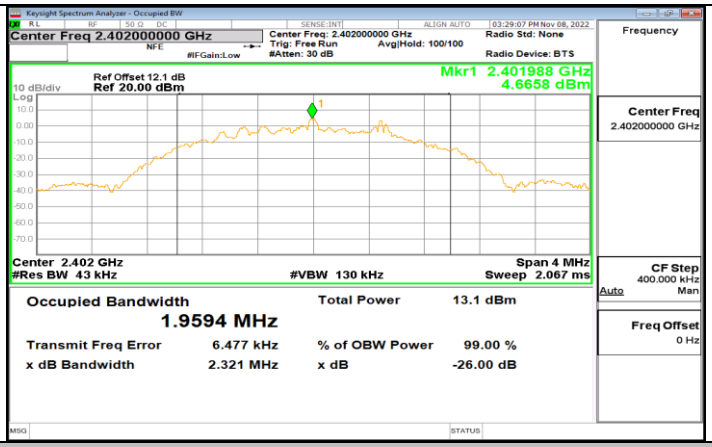
BLE_1M_Ant1_2402



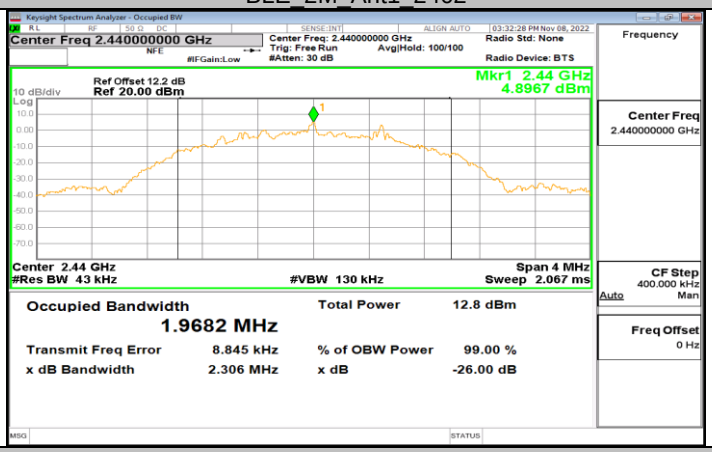
BLE_1M_Ant1_2440



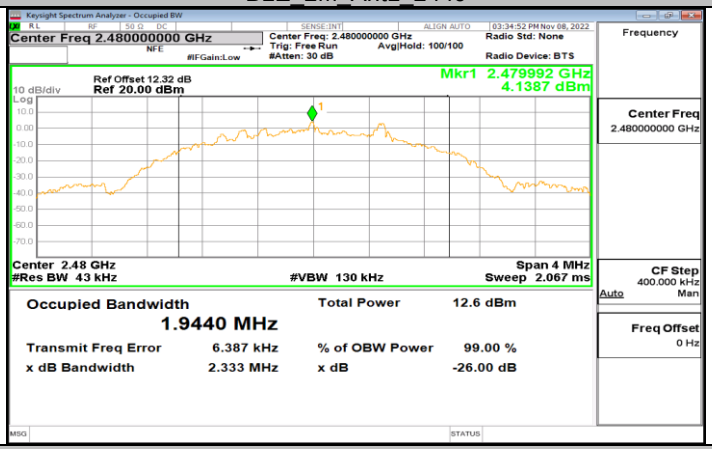
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

12.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

12.3.1. Test Result

Test Mode	Antenna	Channel	PEAK Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.96	≤30	PASS
		2440	9.33	≤30	PASS
		2480	9.72	≤30	PASS
BLE_2M	Ant1	2402	8.94	≤30	PASS
		2440	9.32	≤30	PASS
		2480	9.68	≤30	PASS

Test Mode	Antenna	Channel	AVG Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.95	≤30	PASS
		2440	9.24	≤30	PASS
		2480	9.54	≤30	PASS
BLE_2M	Ant1	2402	8.62	≤30	PASS
		2440	9.04	≤30	PASS
		2480	9.05	≤30	PASS

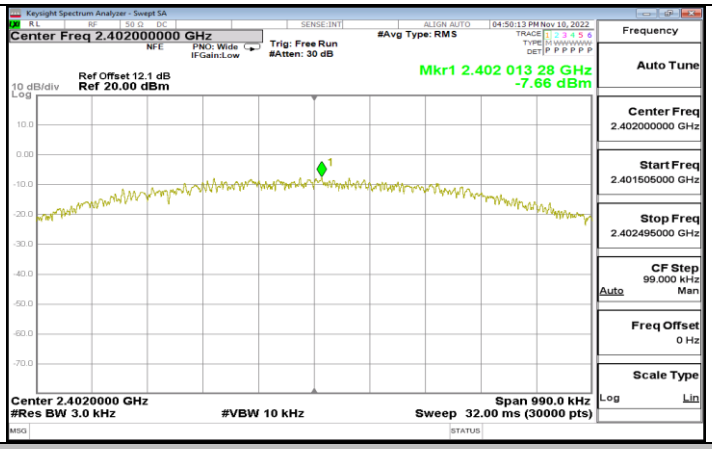
Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data in AVG Result.

12.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

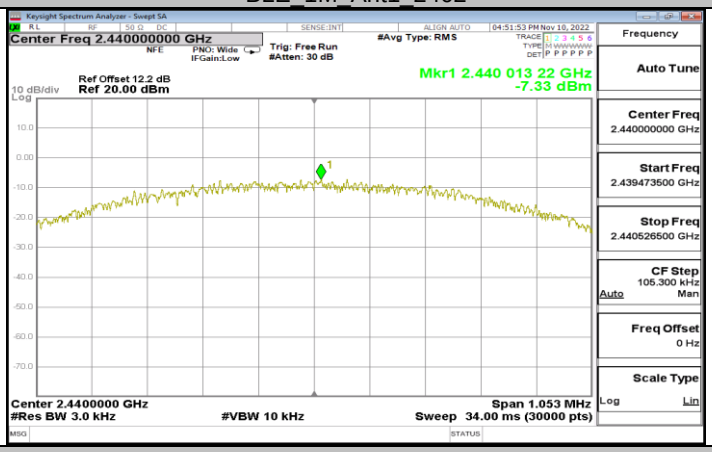
12.4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.66	≤8.00	PASS
		2440	-7.33	≤8.00	PASS
		2480	-6.94	≤8.00	PASS
BLE_2M	Ant1	2402	-9.22	≤8.00	PASS
		2440	-8.87	≤8.00	PASS
		2480	-8.42	≤8.00	PASS

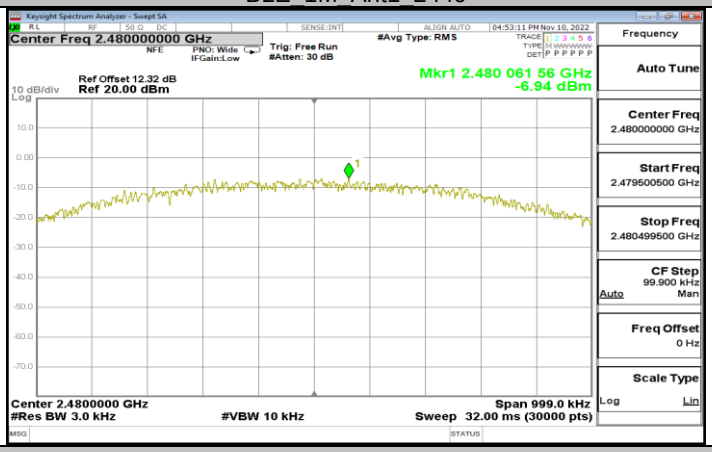
12.4.2. Test Graphs



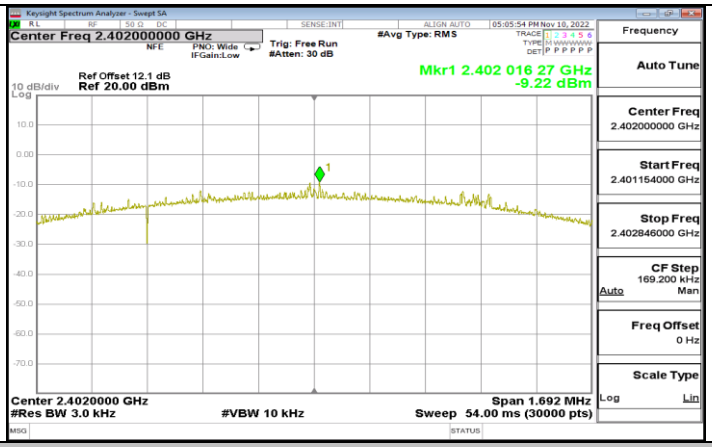
BLE_1M_Ant1_2402



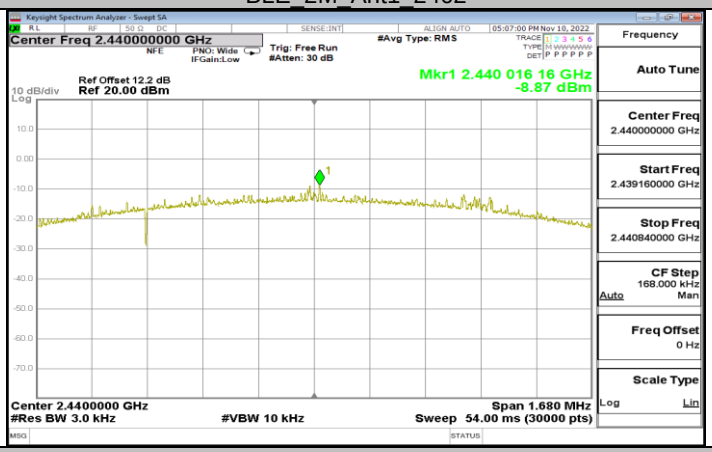
BLE_1M_Ant1_2440



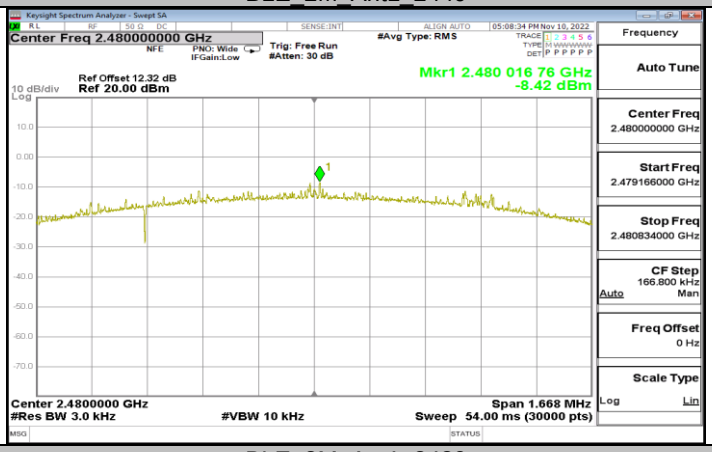
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



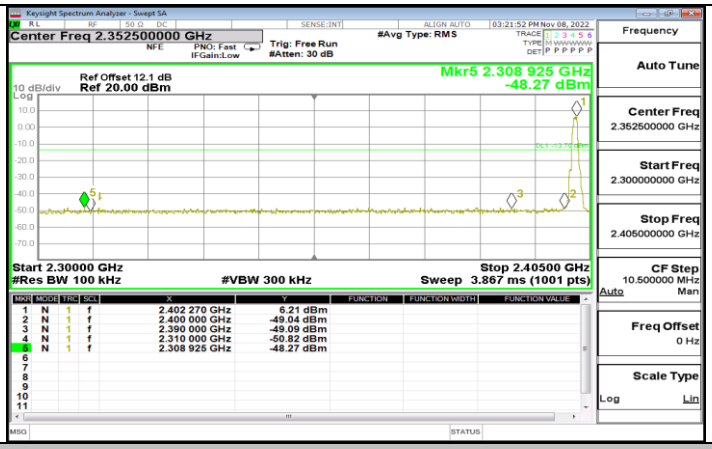
BLE_2M_Ant1_2480

12.5. APPENDIX E: BAND EDGE MEASUREMENTS

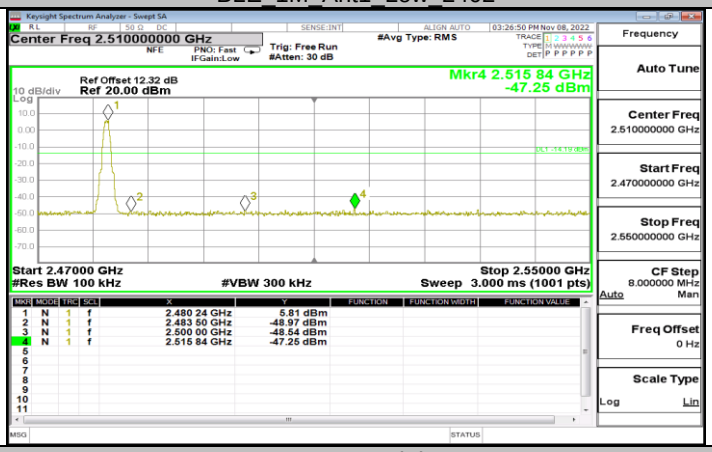
12.5.1. Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.21	-48.27	≤-13.79	PASS
		High	2480	5.81	-47.25	≤-14.19	PASS
BLE_2M	Ant1	Low	2402	6.08	-34.12	≤-13.92	PASS
		High	2480	5.67	-47.91	≤-14.33	PASS

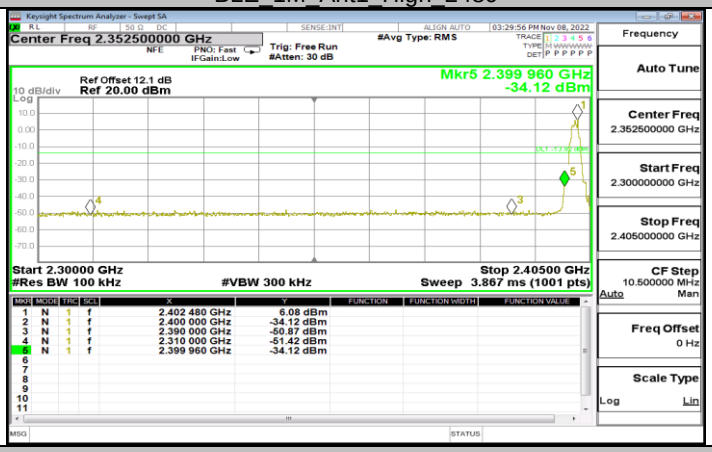
12.5.2. Test Graphs



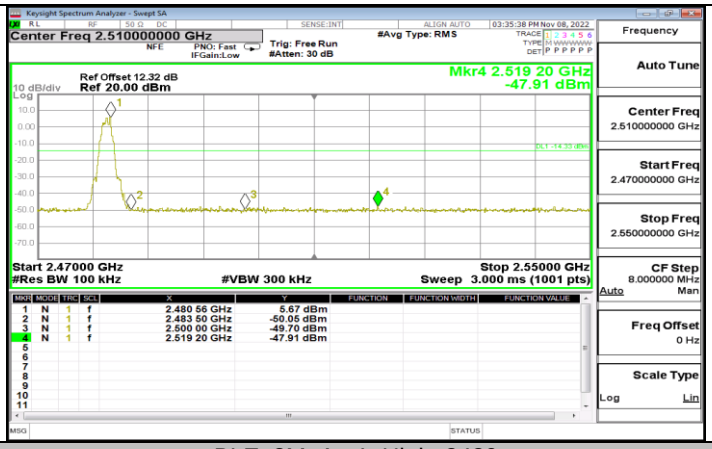
BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



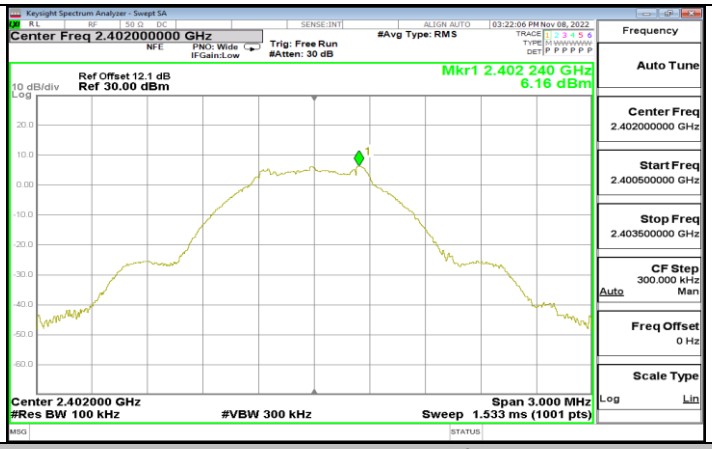
BLE_2M_Ant1_High_2480

12.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

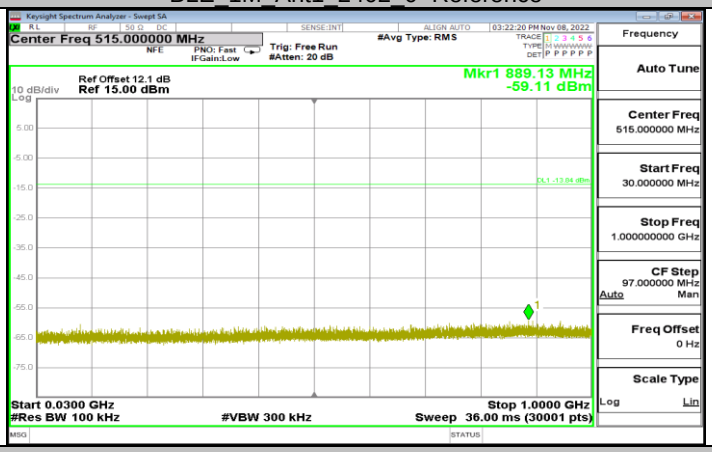
12.6.1. Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.16	---	PASS
			30~1000	-59.11	≤-13.84	PASS
			1000~26500	-51.75	≤-13.84	PASS
		2440	Reference	5.89	---	PASS
			30~1000	-58.31	≤-14.11	PASS
			1000~26500	-51.22	≤-14.11	PASS
		2480	Reference	5.65	---	PASS
			30~1000	-58.24	≤-14.35	PASS
			1000~26500	-51.22	≤-14.35	PASS
BLE_2M	Ant1	2402	Reference	6.11	---	PASS
			30~1000	-58.51	≤-13.89	PASS
			1000~26500	-51.36	≤-13.89	PASS
		2440	Reference	5.86	---	PASS
			30~1000	-59.09	≤-14.14	PASS
			1000~26500	-51.81	≤-14.14	PASS
		2480	Reference	5.66	---	PASS
			30~1000	-59.06	≤-14.34	PASS
			1000~26500	-51.13	≤-14.34	PASS

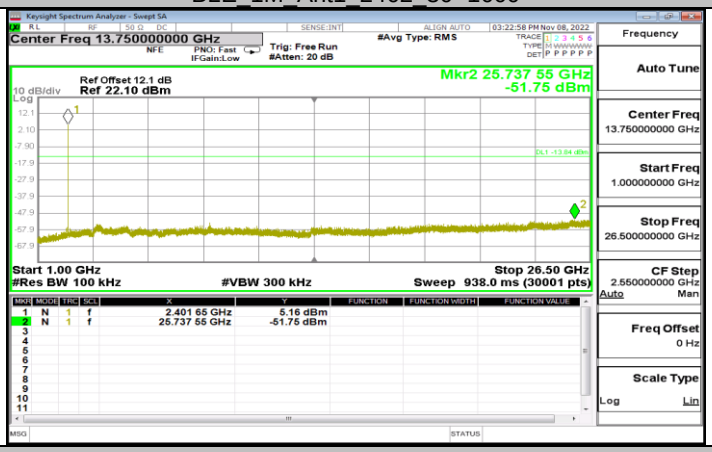
12.6.2. Test Graphs



BLE_1M_Ant1_2402_0~Reference

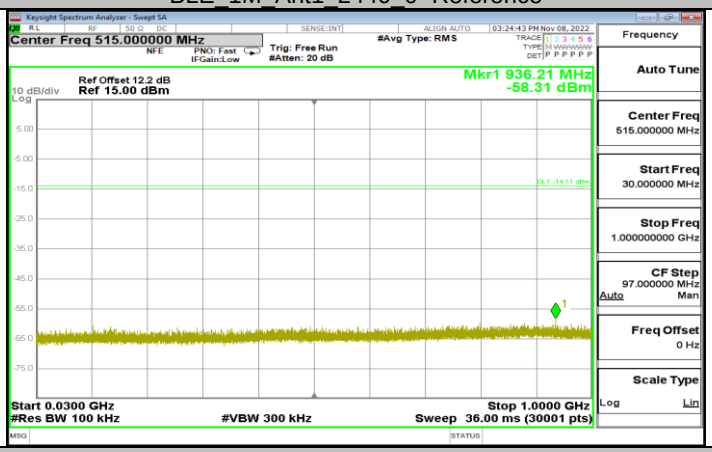


BLE_1M_Ant1_2402_30~1000

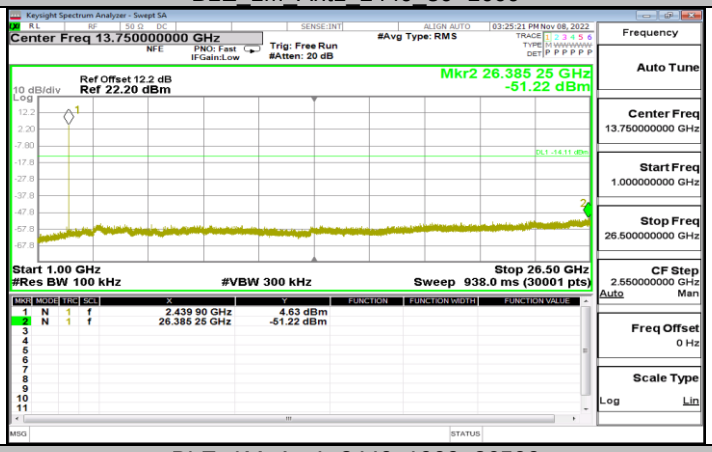


BLE_1M_Ant1_2402_1000~26500

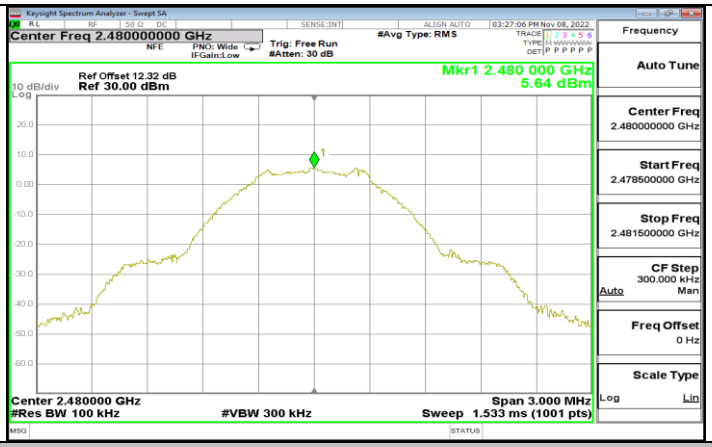
BLE_1M_Ant1_2440_0~Reference



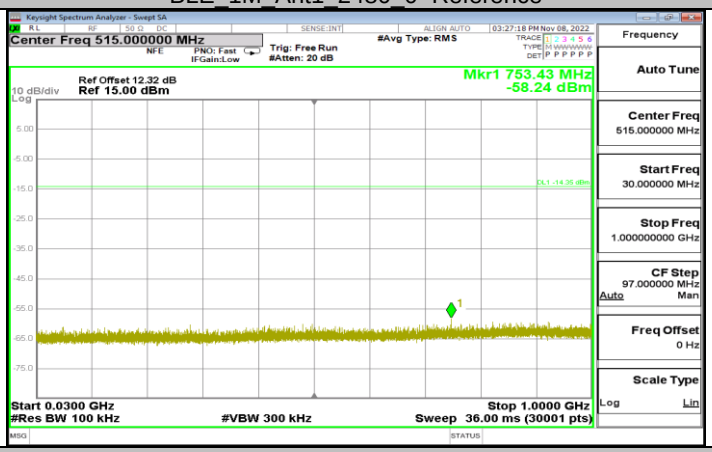
BLE_1M_Ant1_2440_30~1000



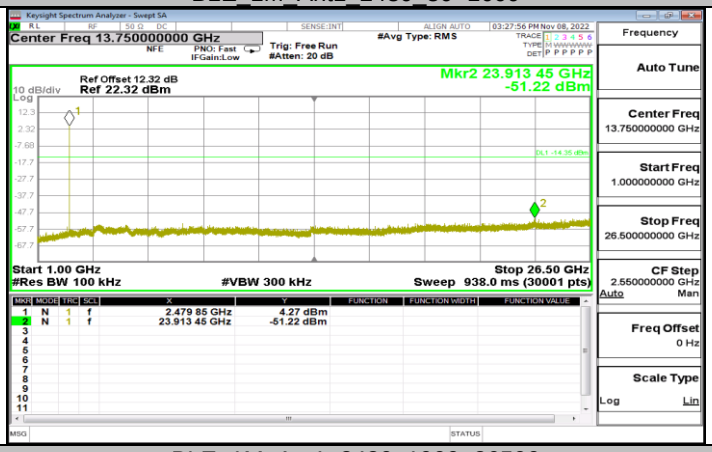
BLE_1M_Ant1_2440_1000~26500



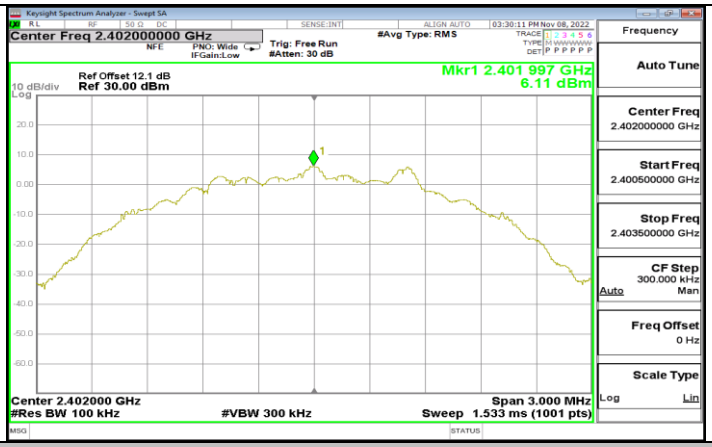
BLE_1M_Ant1_2480_0~Reference



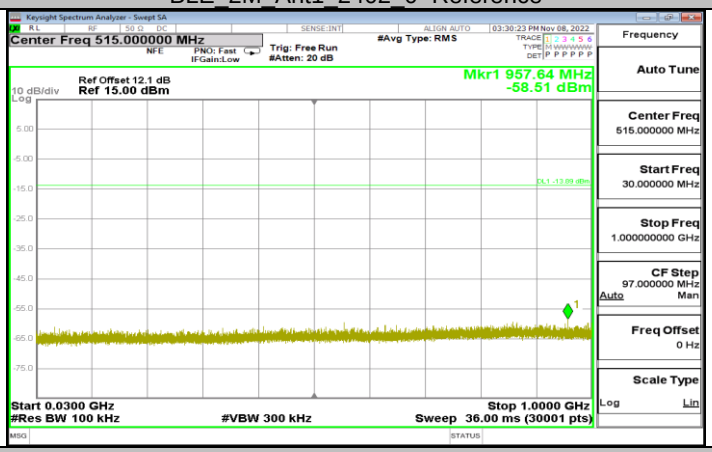
BLE_1M_Ant1_2480_30~1000



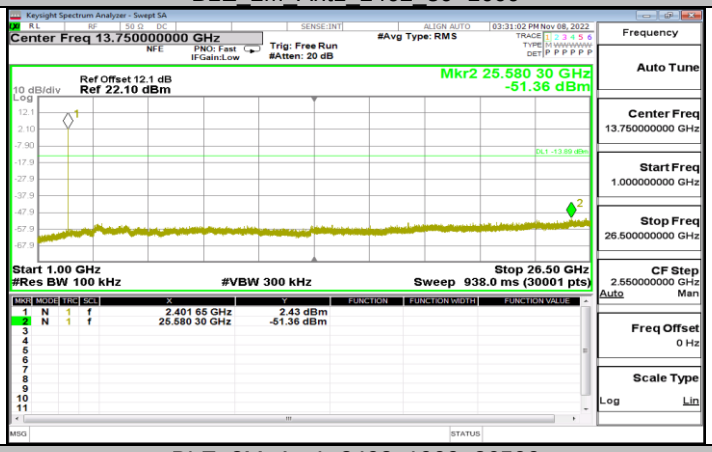
BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

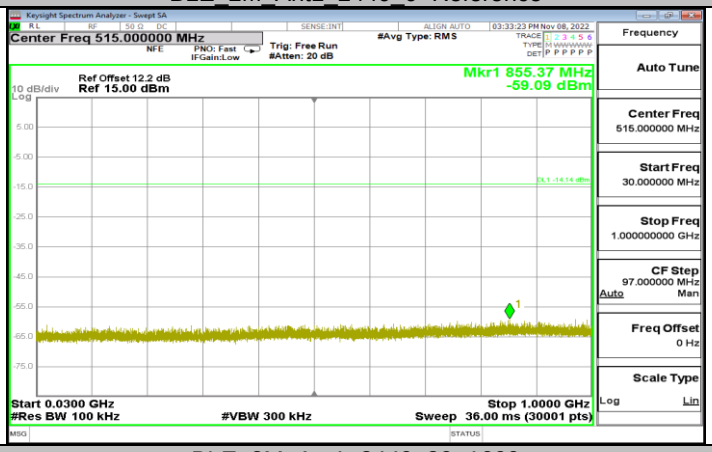


BLE_2M_Ant1_2402_30~1000

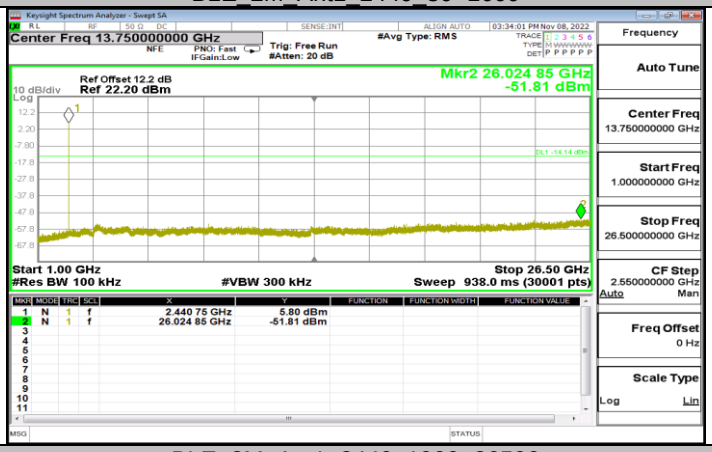


BLE_2M_Ant1_2402_1000~26500

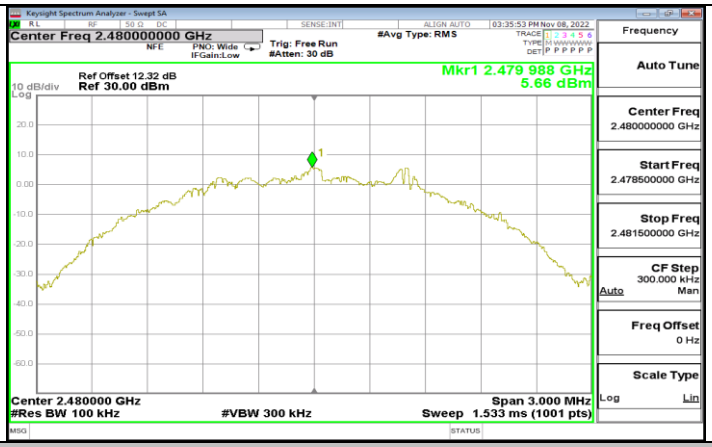
BLE_2M_Ant1_2440_0~Reference



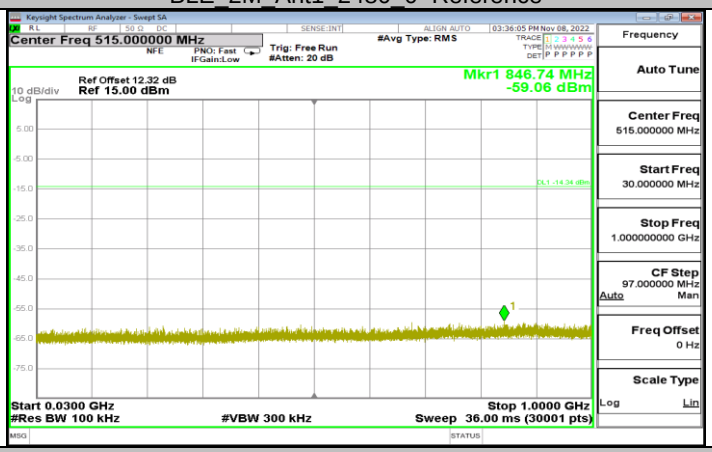
BLE_2M_Ant1_2440_30~1000



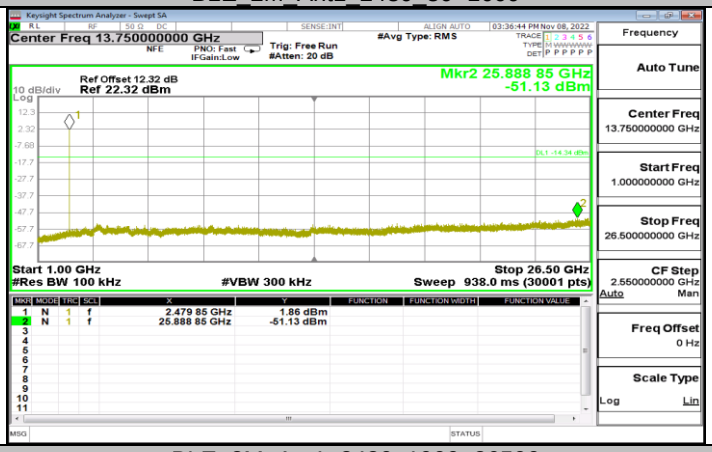
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

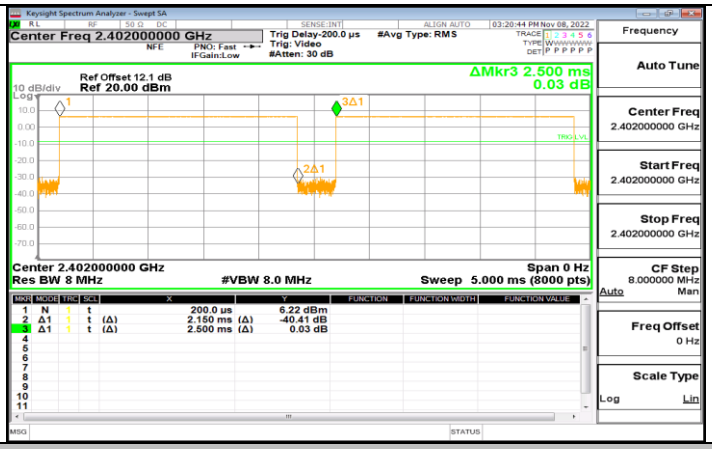
12.7. APPENDIX G: DUTY CYCLE

12.7.1. Test Result

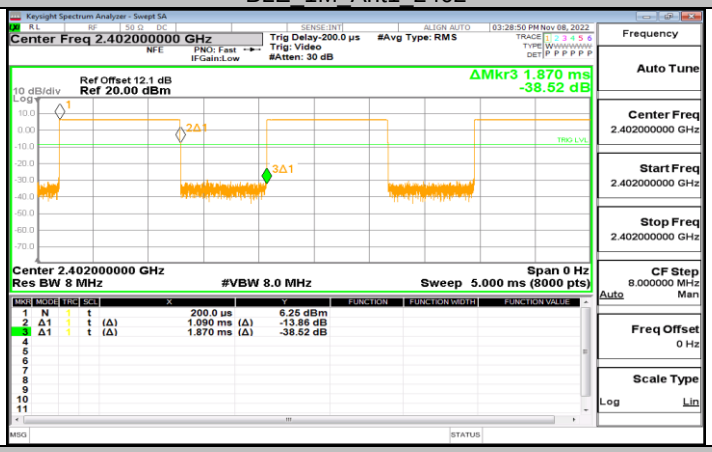
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
BLE 1M	2.15	2.5	0.8600	86.00	0.66	0.47	1
BLE 2M	1.09	1.87	0.5829	58.29	2.34	0.92	1

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

12.7.2. Test Graphs



BLE_1M_Ant1_2402



BLE_2M_Ant1_2402

END OF REPORT