

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark:Keychron

Test Model: K2 Max

FCC ID: 2BGKB-K2MAX

Environmental Conditions

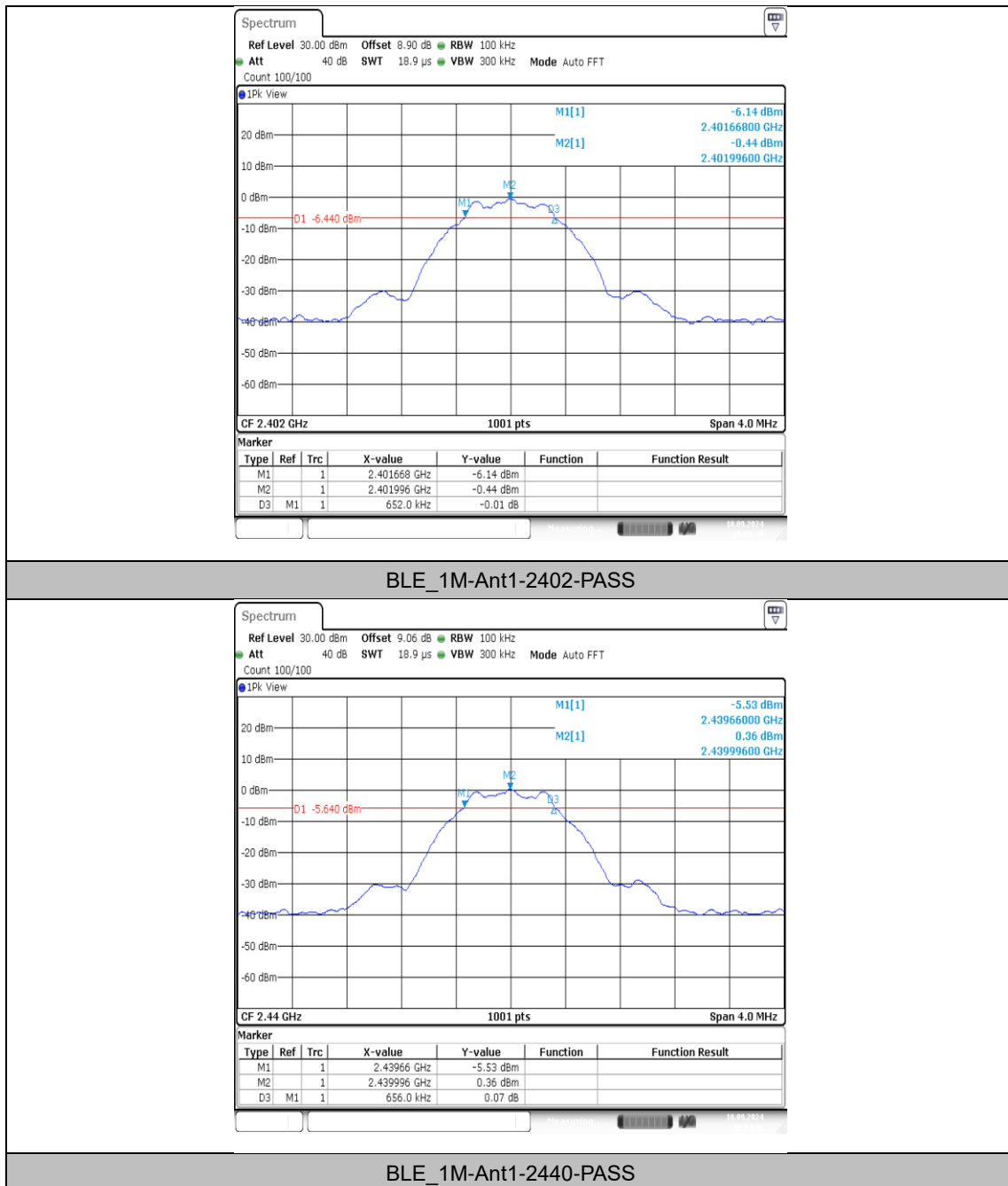
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

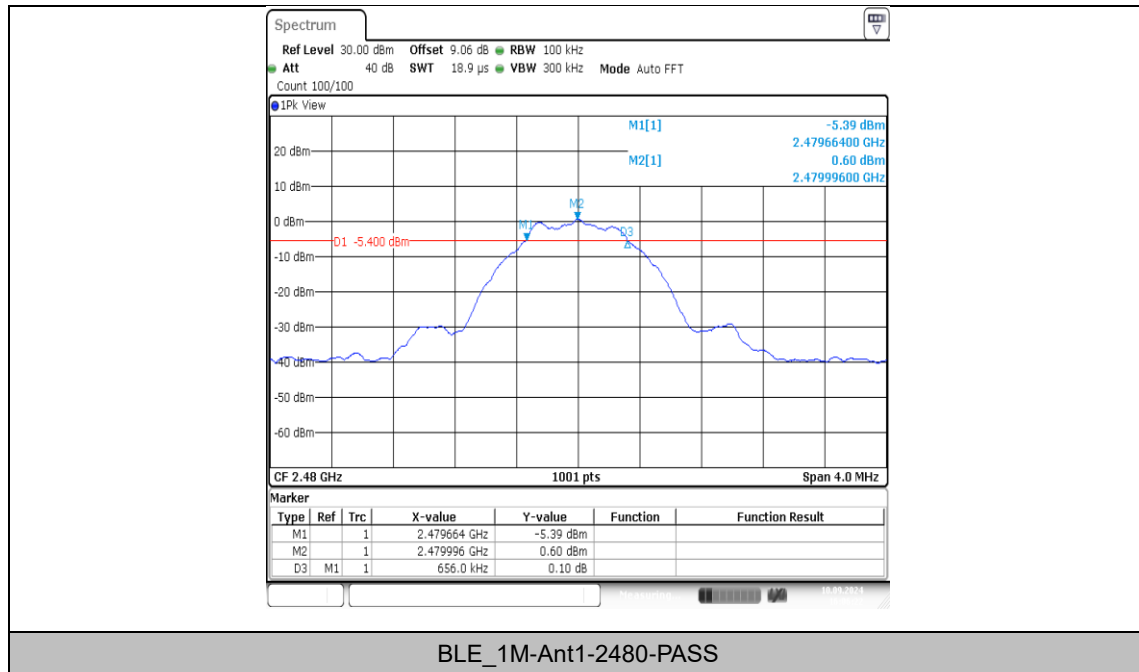
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.67	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.66	2440.32	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.66	2480.32	0.5	PASS

Test Graphs



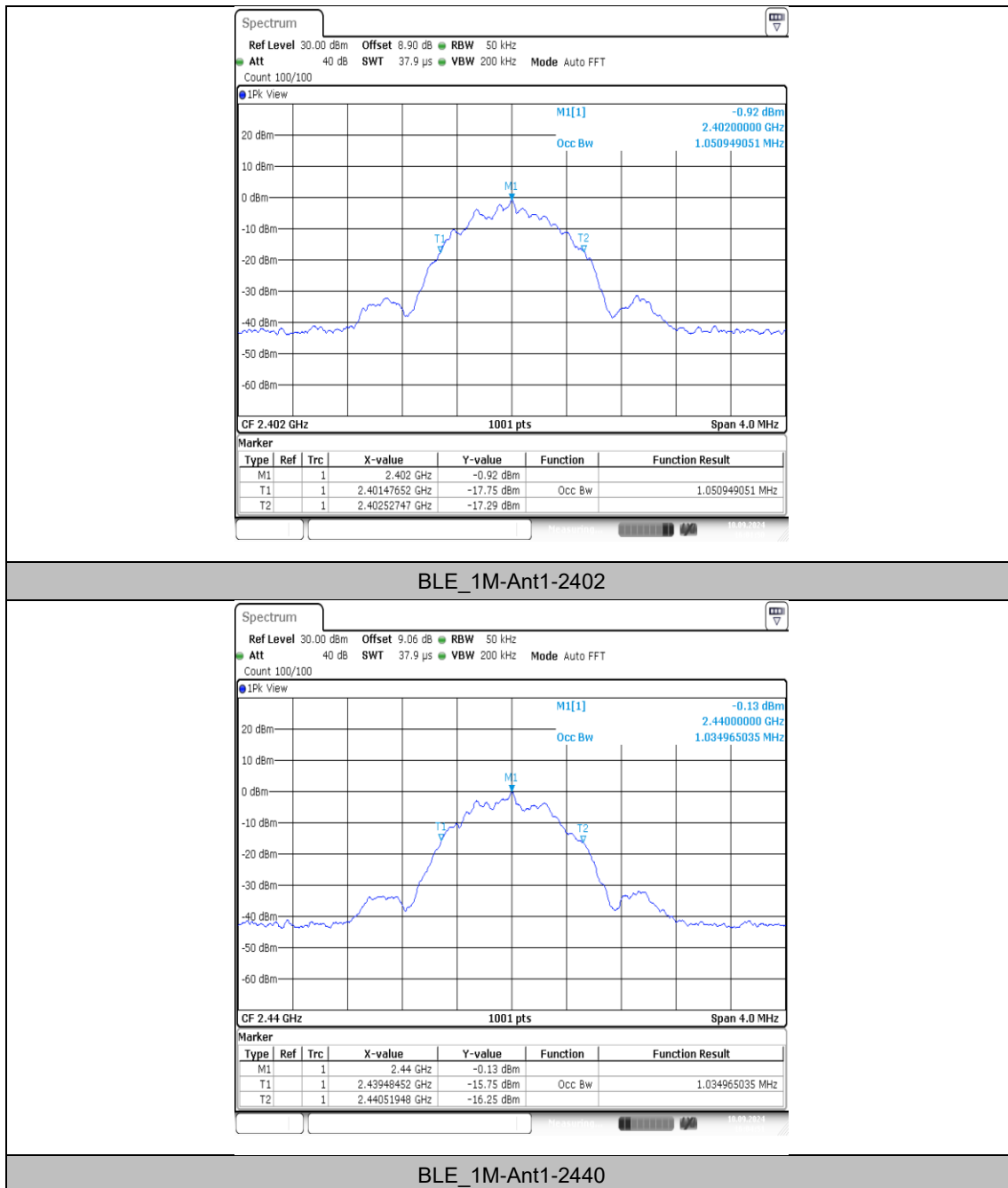


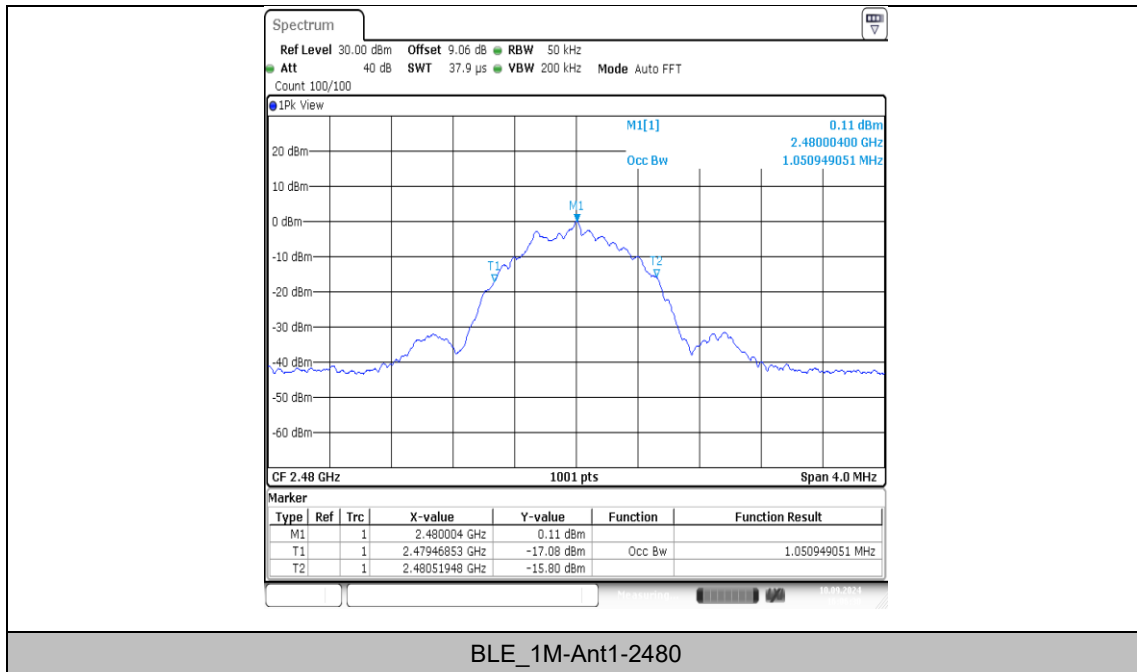
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.051	2401.4765	2402.5275	---	---
BLE_1M	Ant1	2440	1.035	2439.4845	2440.5195	---	---
BLE_1M	Ant1	2480	1.051	2479.4685	2480.5195	---	---

Test Graphs



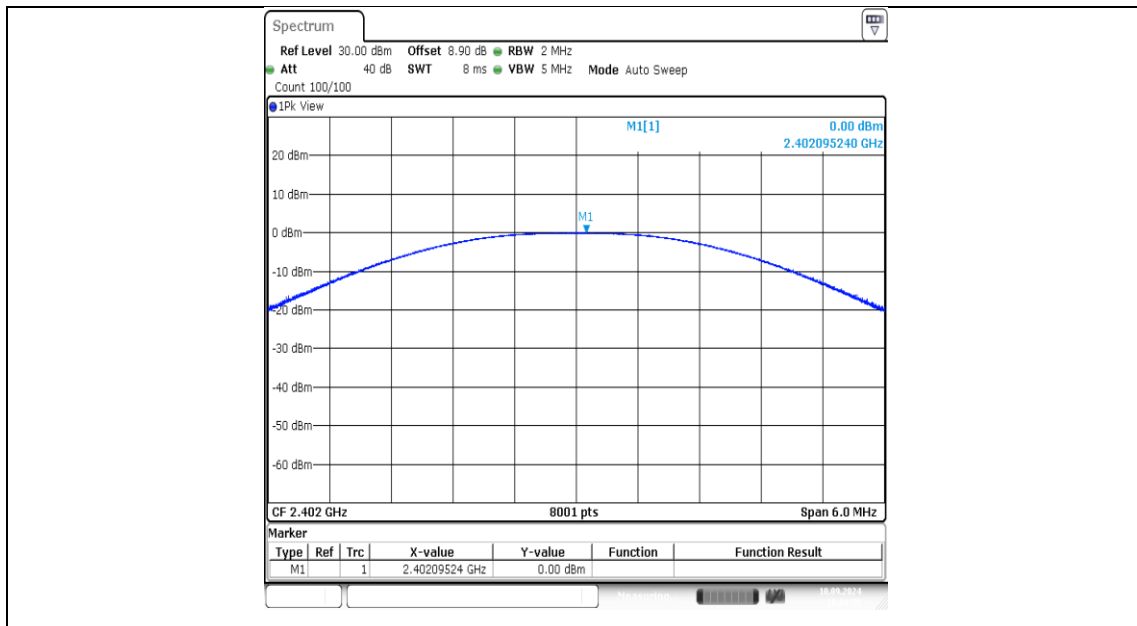


Appendix C: Maximum peak conducted output power

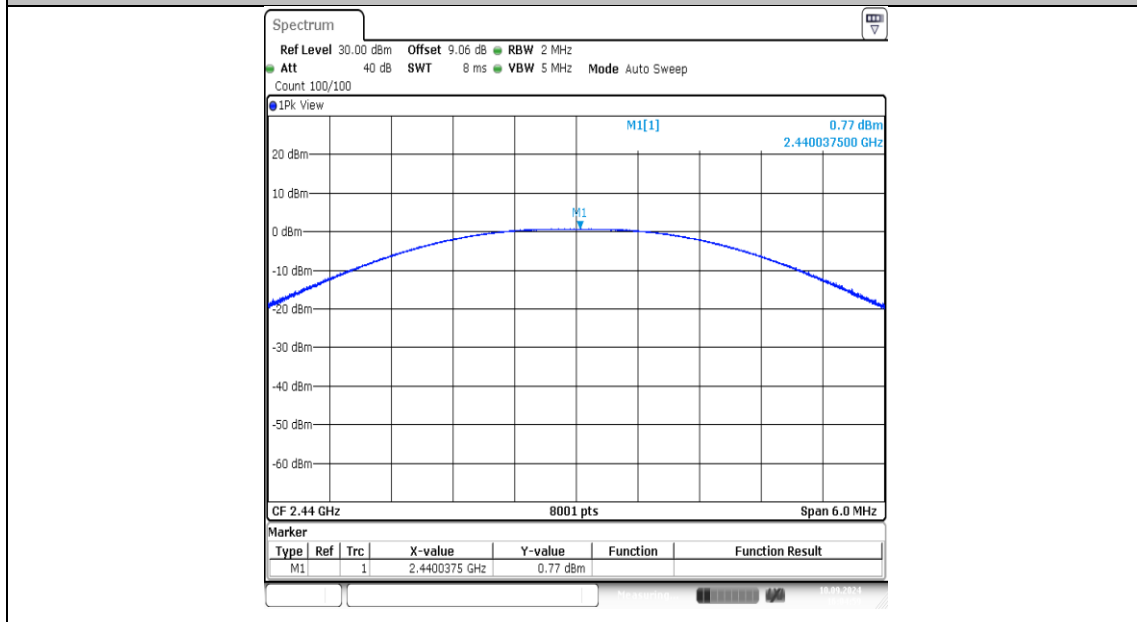
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.00	≤30	PASS
BLE_1M	Ant1	2440	0.77	≤30	PASS
BLE_1M	Ant1	2480	1.00	≤30	PASS

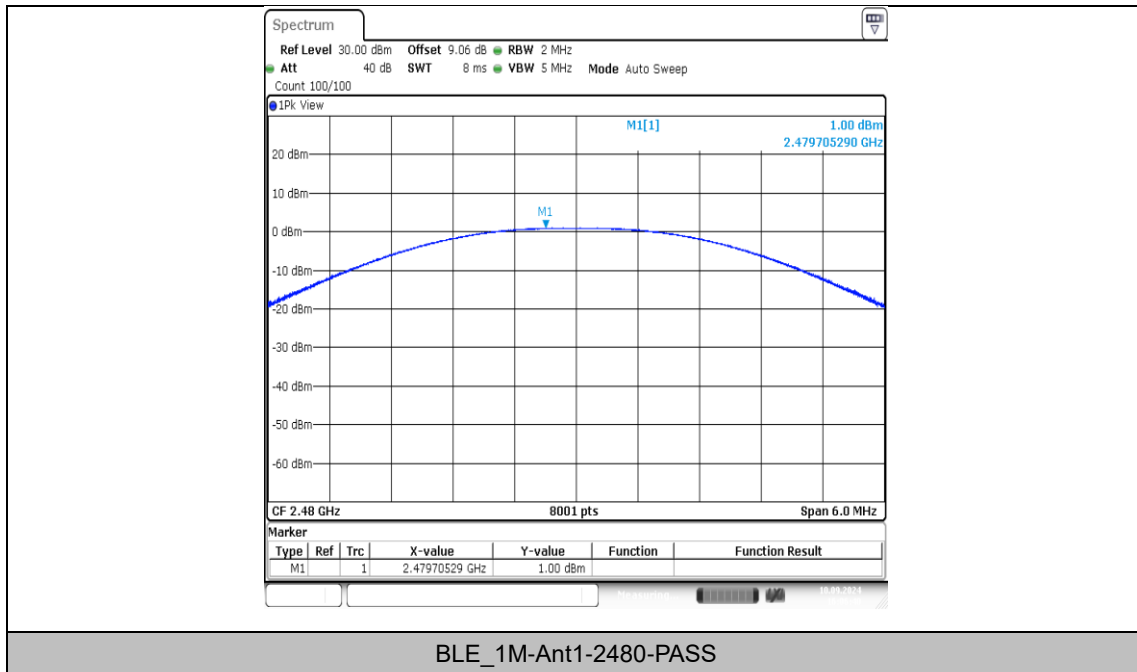
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

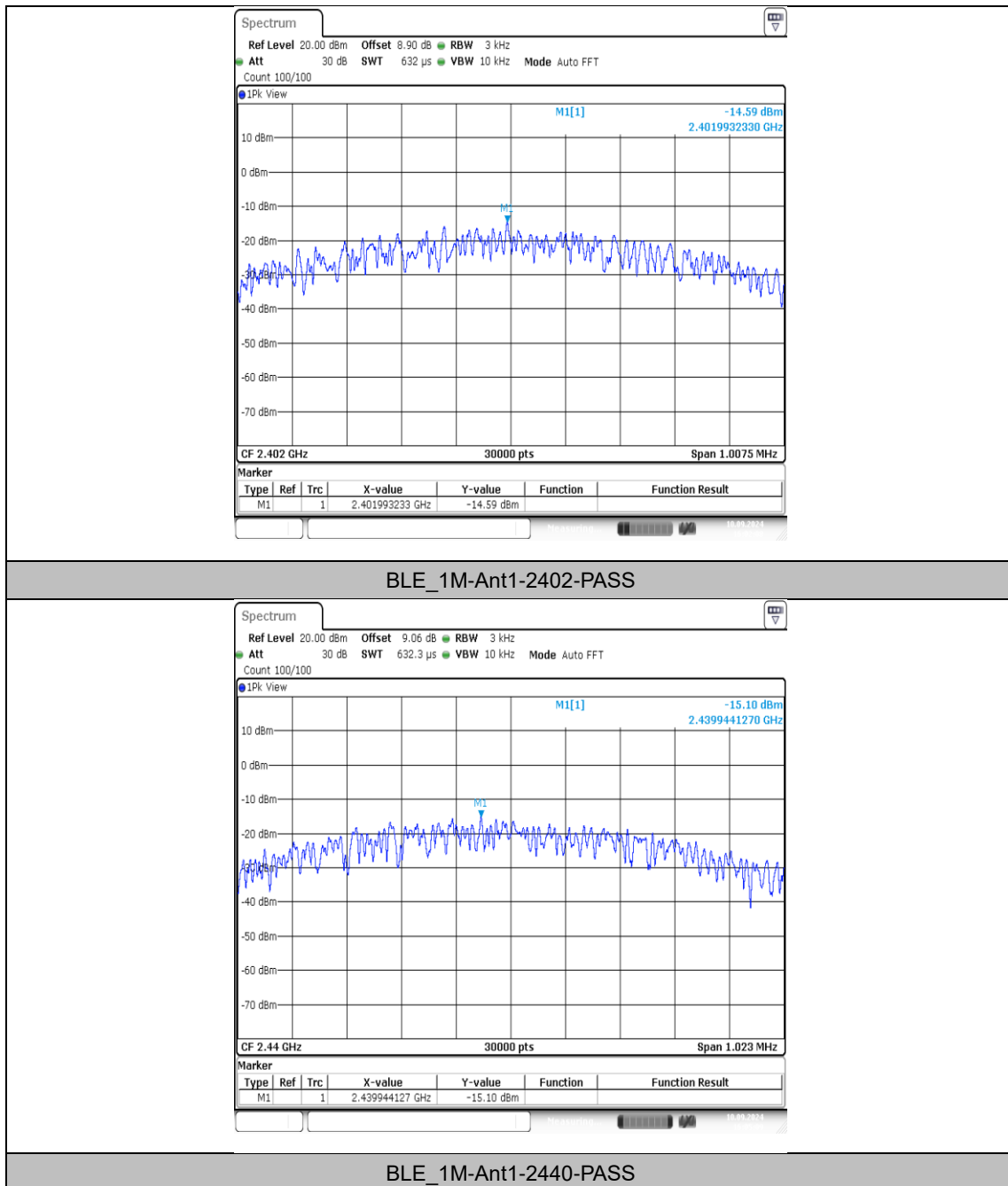


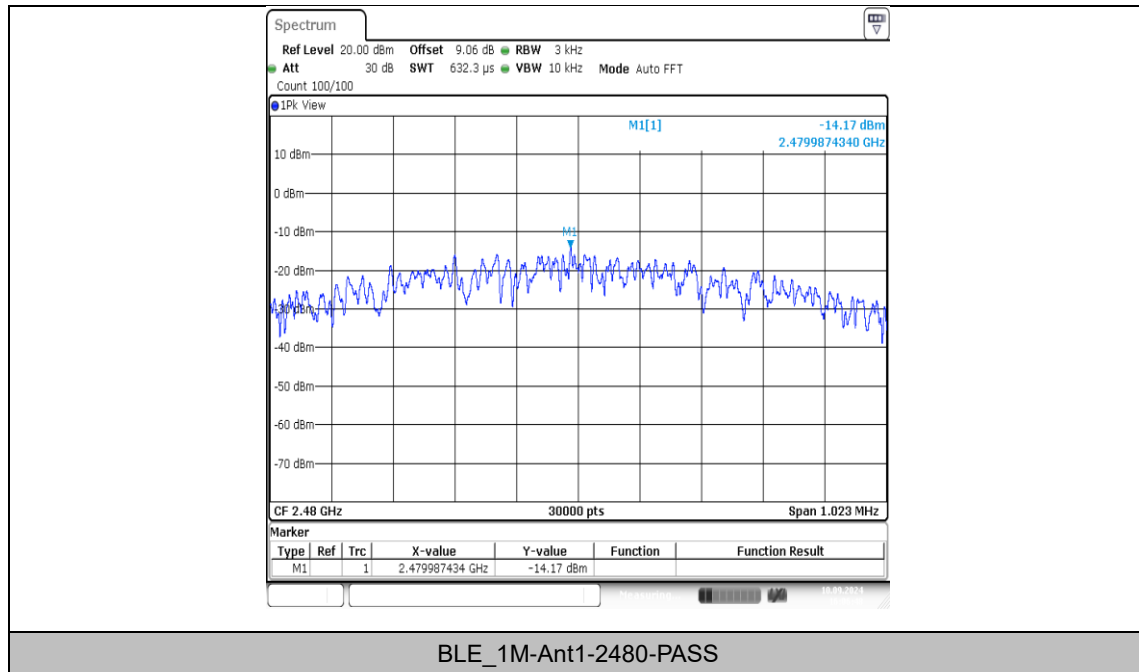
Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.59	≤8.00	PASS
BLE_1M	Ant1	2440	-15.10	≤8.00	PASS
BLE_1M	Ant1	2480	-14.17	≤8.00	PASS

Test Graphs



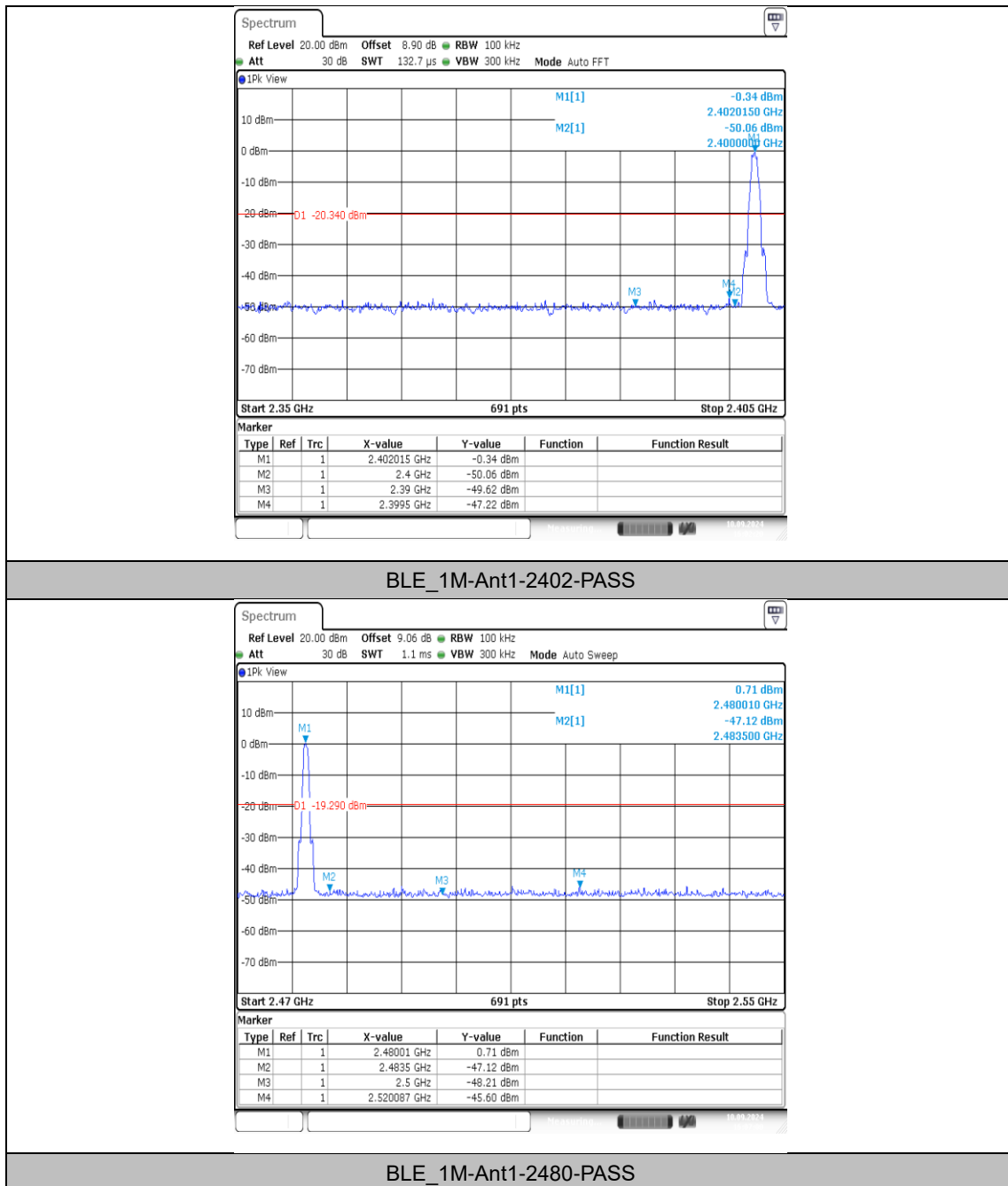


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.34	-47.22	≤-20.34	PASS
BLE_1M	Ant1	High	2480	0.71	-45.6	≤-19.29	PASS

Test Graphs

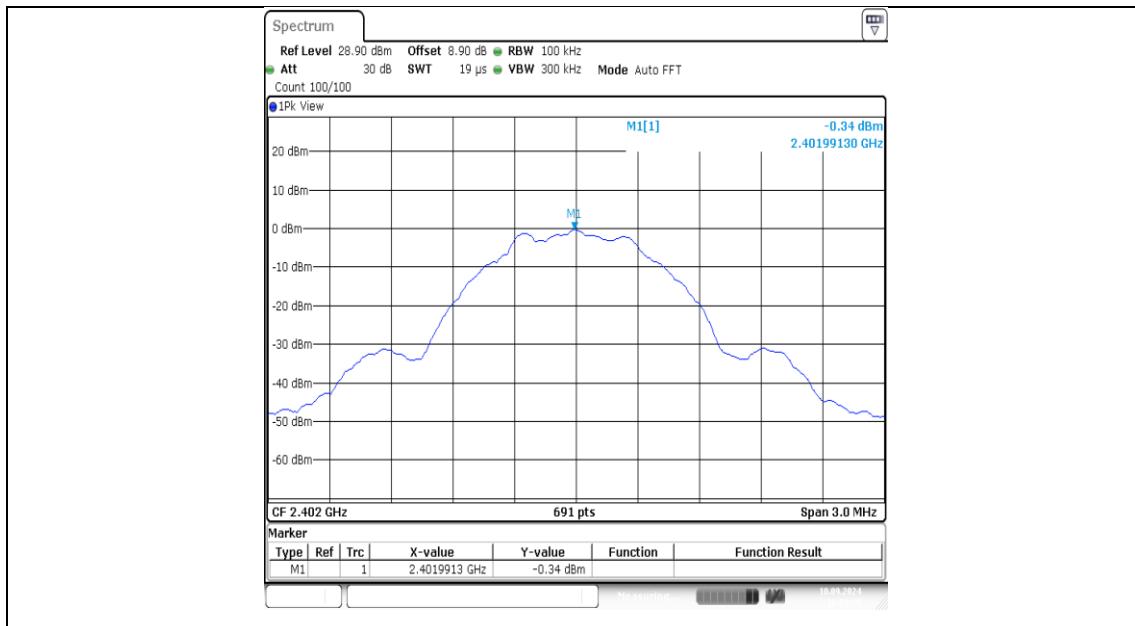


Appendix F: Conducted Spurious Emission

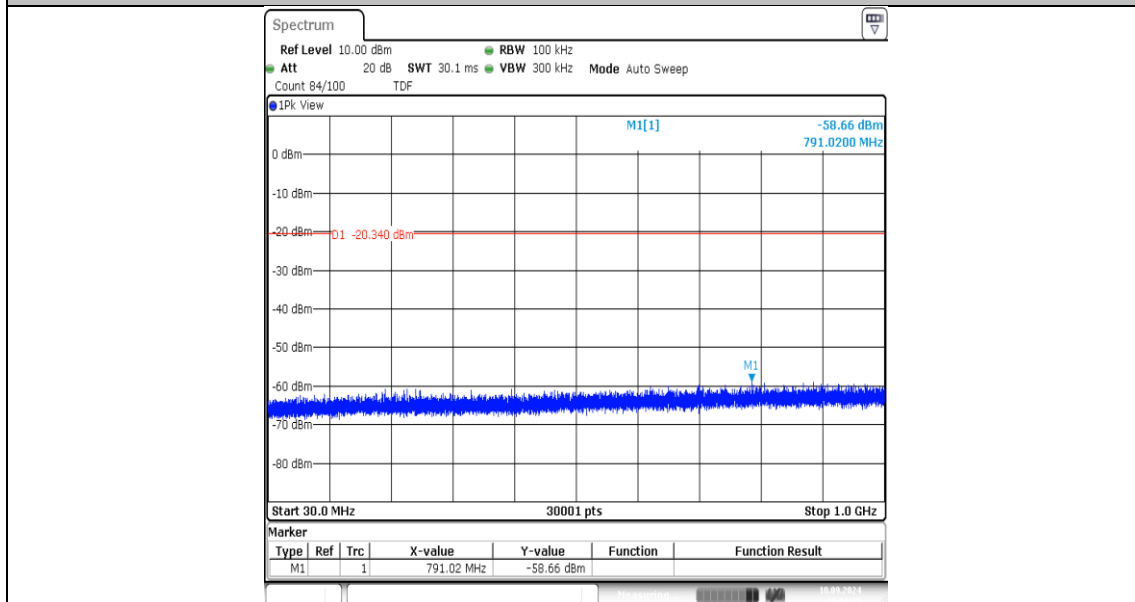
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.34	-0.34	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.34	-58.66	≤-20.34	PASS
BLE_1M	Ant1	2402	1000~26500	-0.34	-24.8	≤-20.34	PASS
BLE_1M	Ant1	2440	0~Reference	0.43	0.43	---	PASS
BLE_1M	Ant1	2440	30~1000	0.43	-59.32	≤-19.57	PASS
BLE_1M	Ant1	2440	1000~26500	0.43	-25.79	≤-19.57	PASS
BLE_1M	Ant1	2480	0~Reference	0.67	0.67	---	PASS
BLE_1M	Ant1	2480	30~1000	0.67	-59.08	≤-19.33	PASS
BLE_1M	Ant1	2480	1000~26500	0.67	-50.7	≤-19.33	PASS

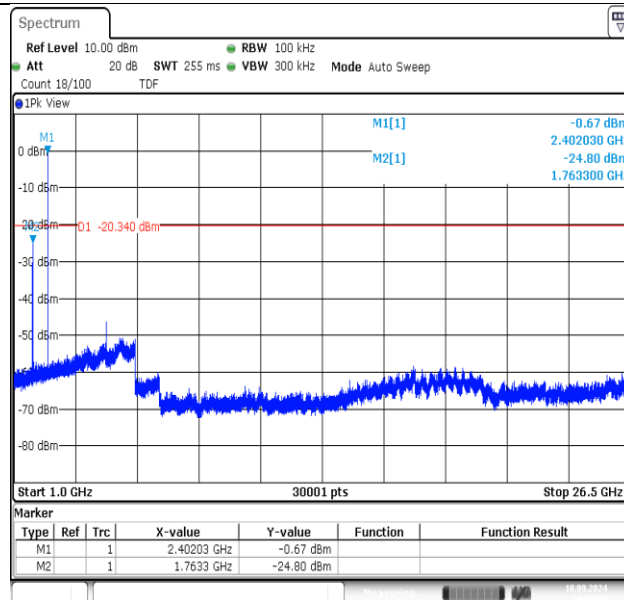
Test Graphs



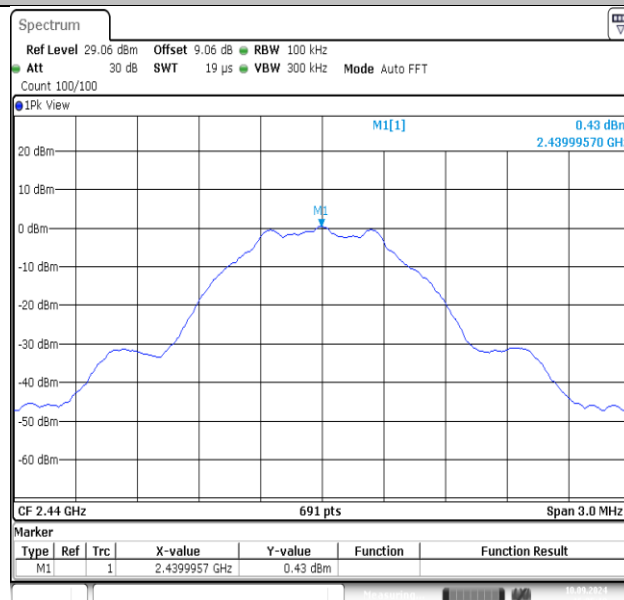
BLE_1M-Ant1-2402-0~Reference-PASS



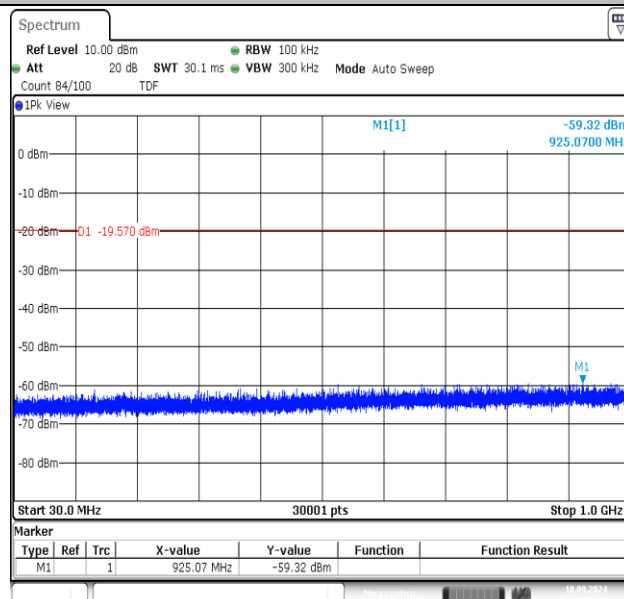
BLE_1M-Ant1-2402-30~1000-PASS



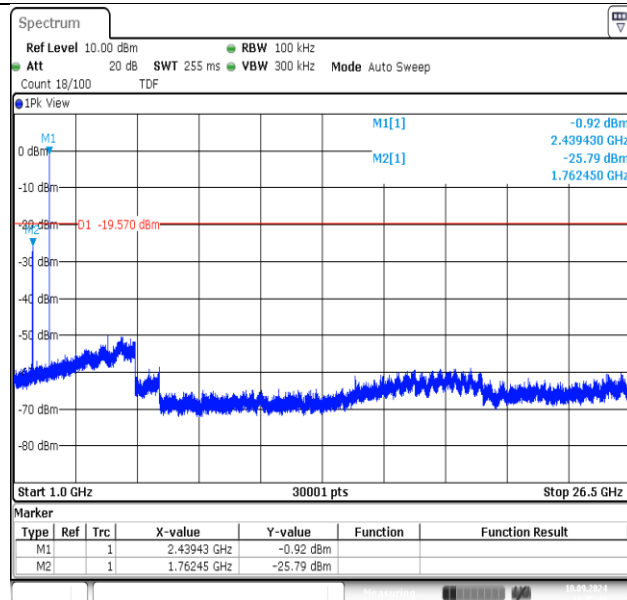
BLE_1M-Ant1-2402-1000~26500-PASS



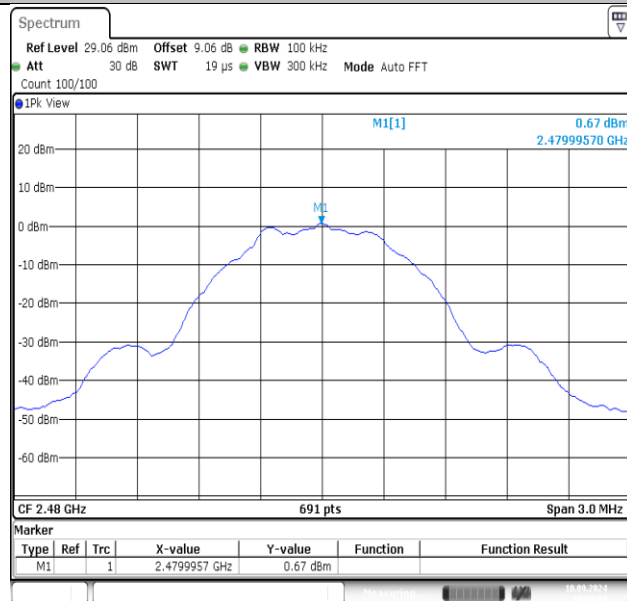
BLE_1M-Ant1-2440-0~Reference-PASS



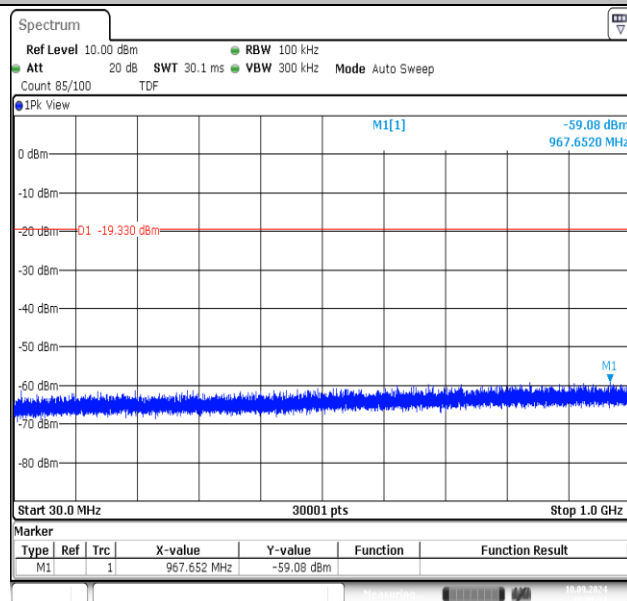
BLE_1M-Ant1-2440-30~1000-PASS



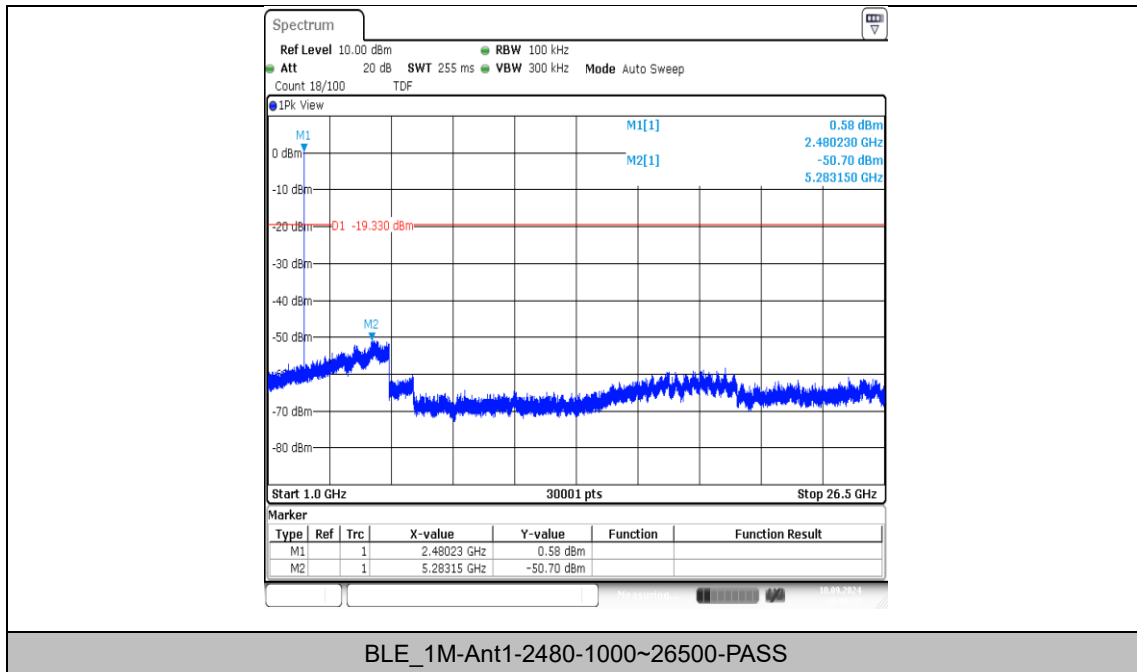
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



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	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2440	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2480	0.40	0.63	63.49	1.97

Test Graphs

