

Appendix Test Data

Report No:	1816C40007712501	Test Sample NO:	1-2-2
Start Test Date:	2024.9.27	Finish Test Date:	2024.9.27
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	23.3℃	Relative Humidity:	57%
Pressure:	101 kPa		

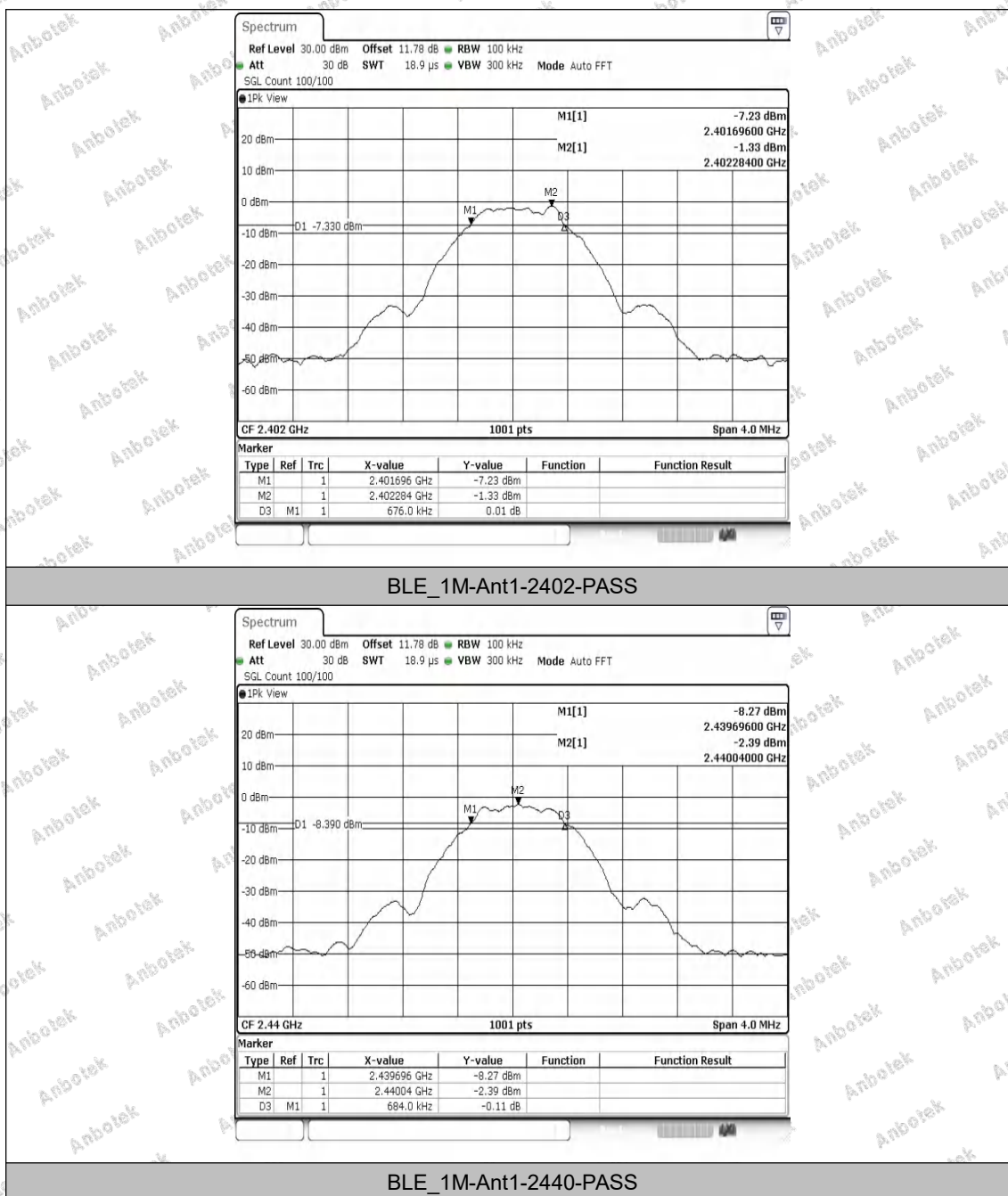
Appendix A: DTS Bandwidth

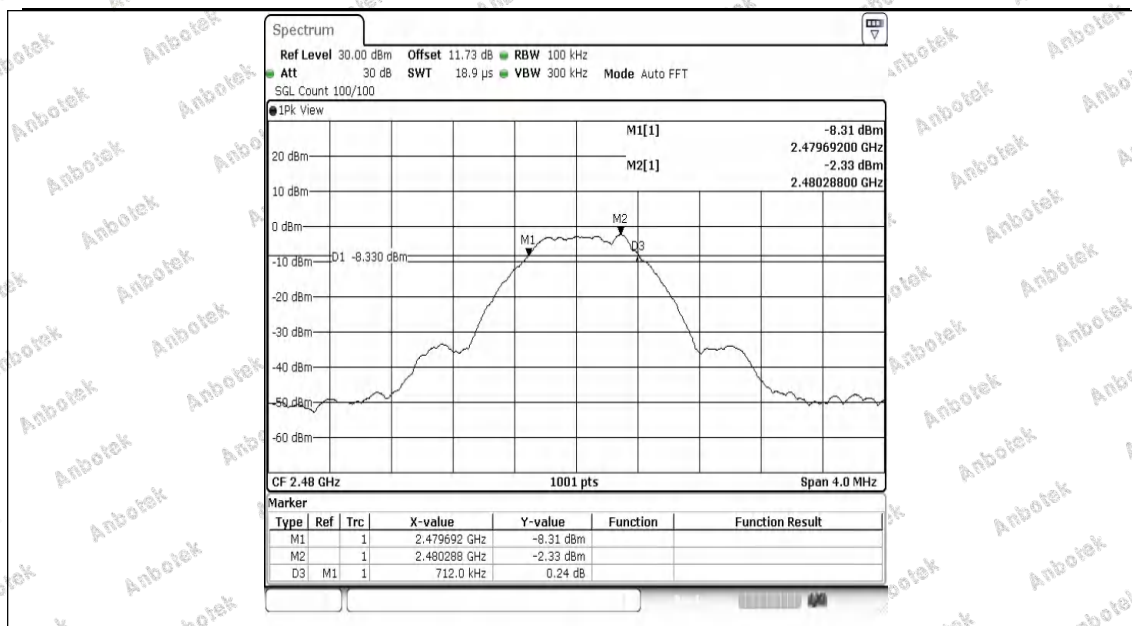
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.70	2402.37	0.5	PASS
BLE_1M	Ant1	2440	0.68	2439.70	2440.38	0.5	PASS
BLE_1M	Ant1	2480	0.71	2479.69	2480.40	0.5	PASS
BLE_2M	Ant1	2402	1.38	2401.35	2402.73	0.5	PASS
BLE_2M	Ant1	2440	1.38	2439.35	2440.73	0.5	PASS
BLE_2M	Ant1	2480	1.40	2479.35	2480.75	0.5	PASS

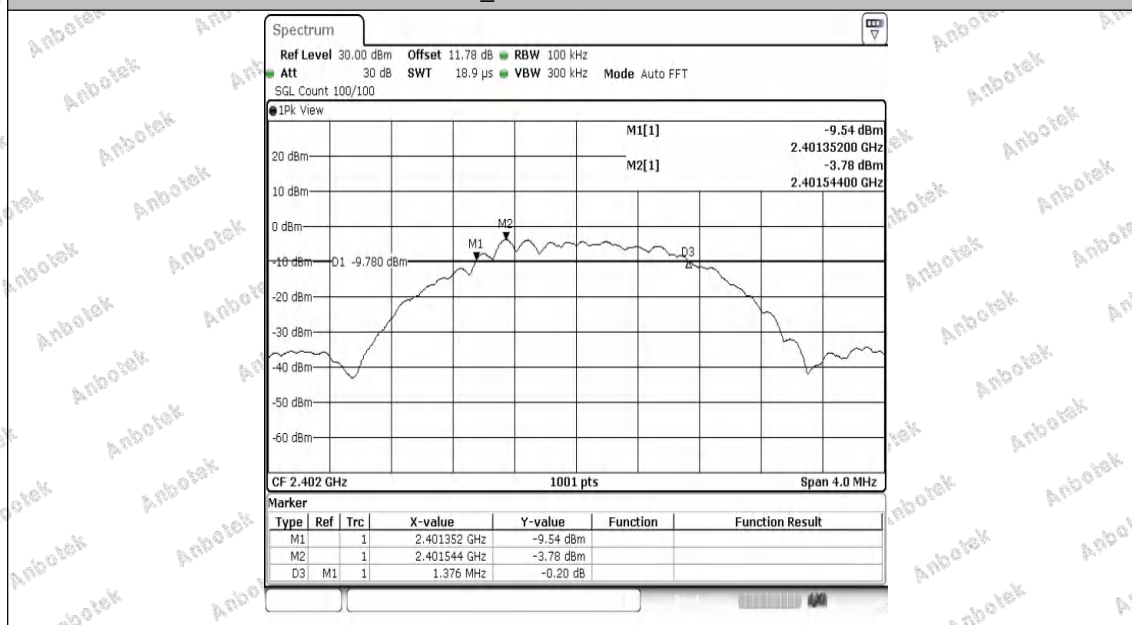


Test Graphs



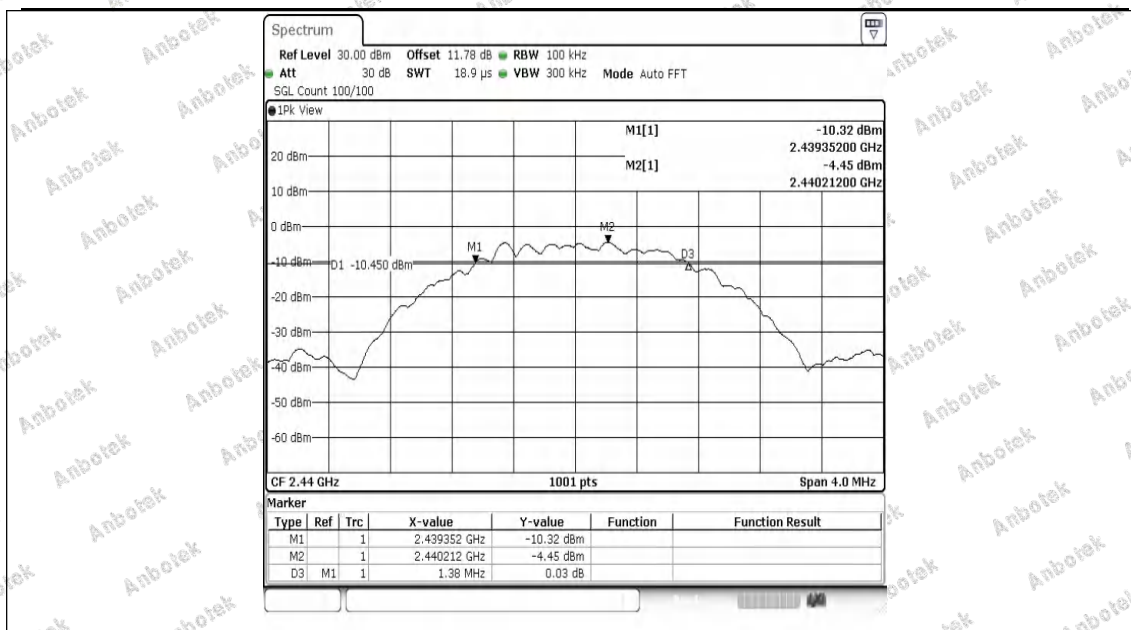


BLE_1M-Ant1-2480-PASS

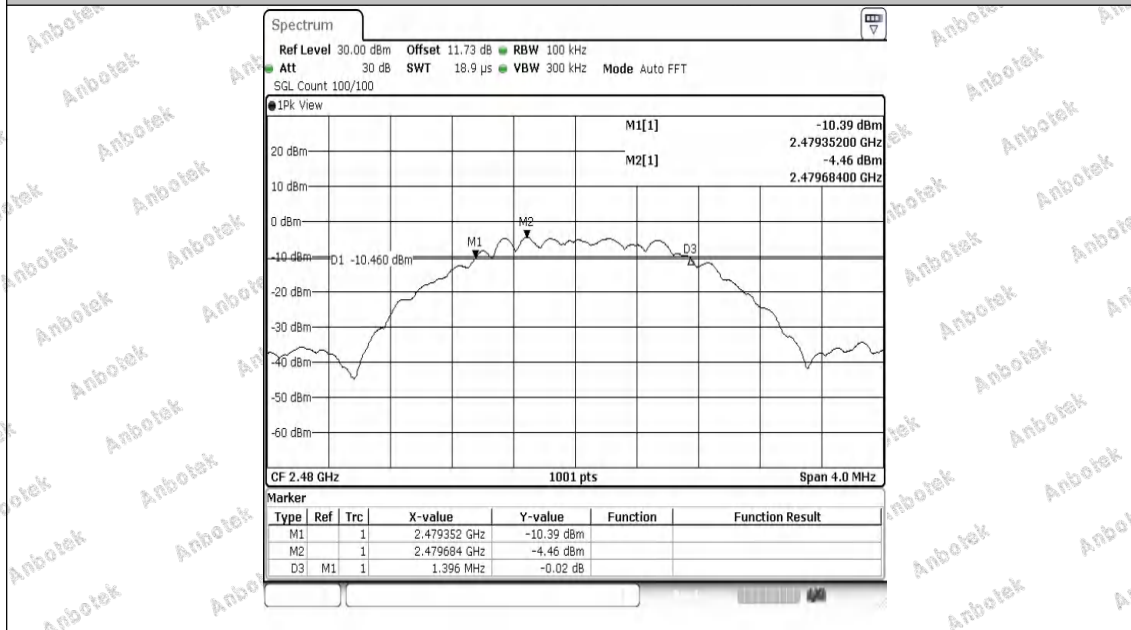


BLE_2M-Ant1-2402-PASS





BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



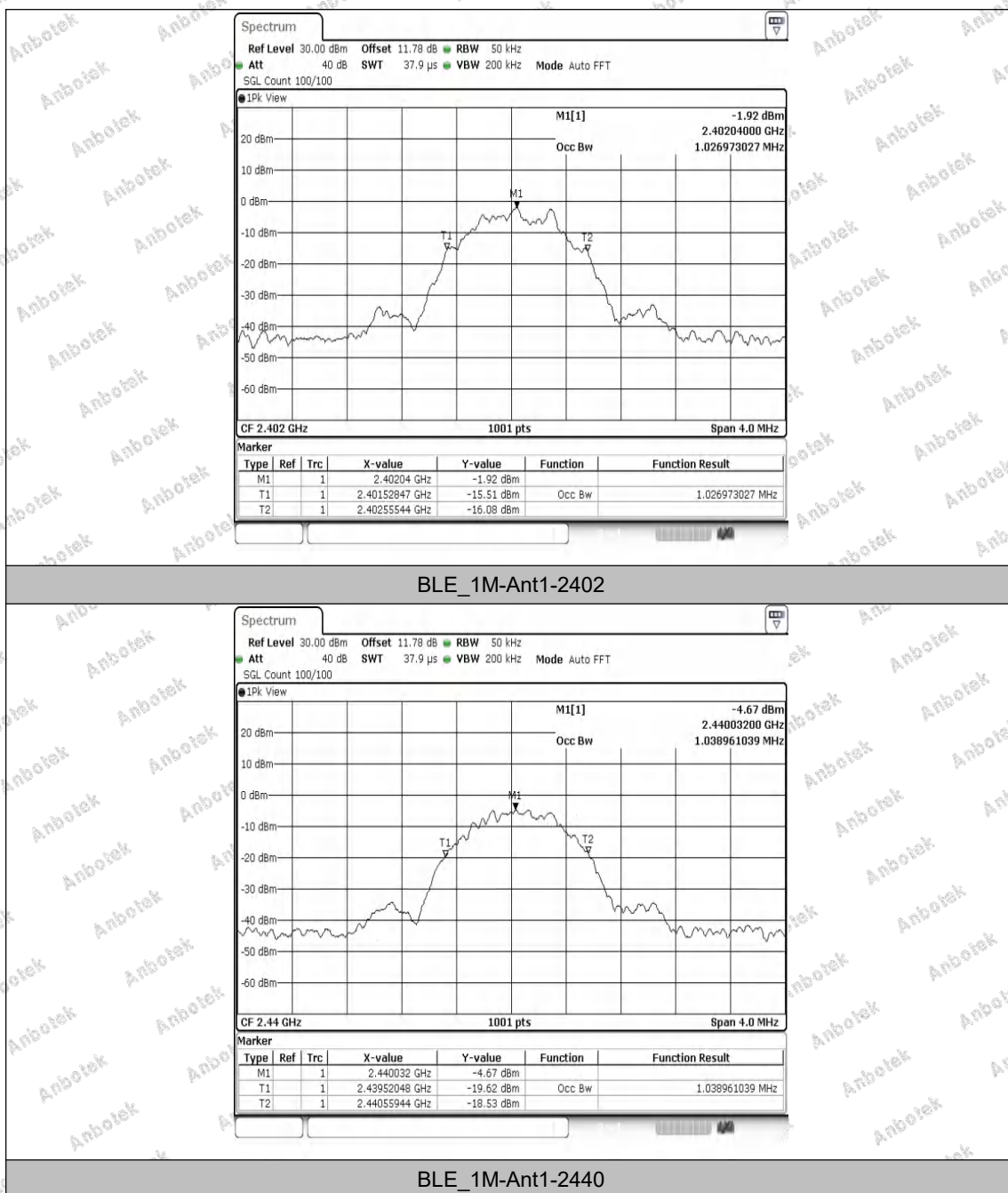
Appendix B: Occupied Channel Bandwidth

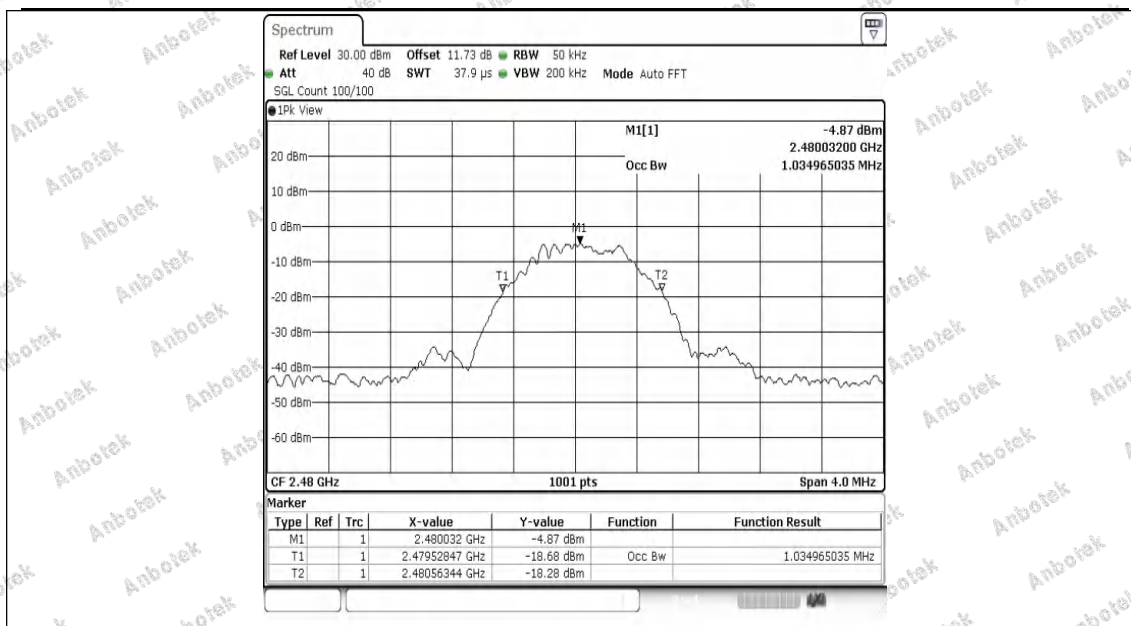
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.027	2401.5285	2402.5554	---	---
BLE_1M	Ant1	2440	1.039	2439.5205	2440.5594	---	---
BLE_1M	Ant1	2480	1.035	2479.5285	2480.5634	---	---
BLE_2M	Ant1	2402	2.058	2401.0210	2403.0789	---	---
BLE_2M	Ant1	2440	2.07	2439.0130	2441.0829	---	---
BLE_2M	Ant1	2480	2.054	2479.0210	2481.0749	---	---

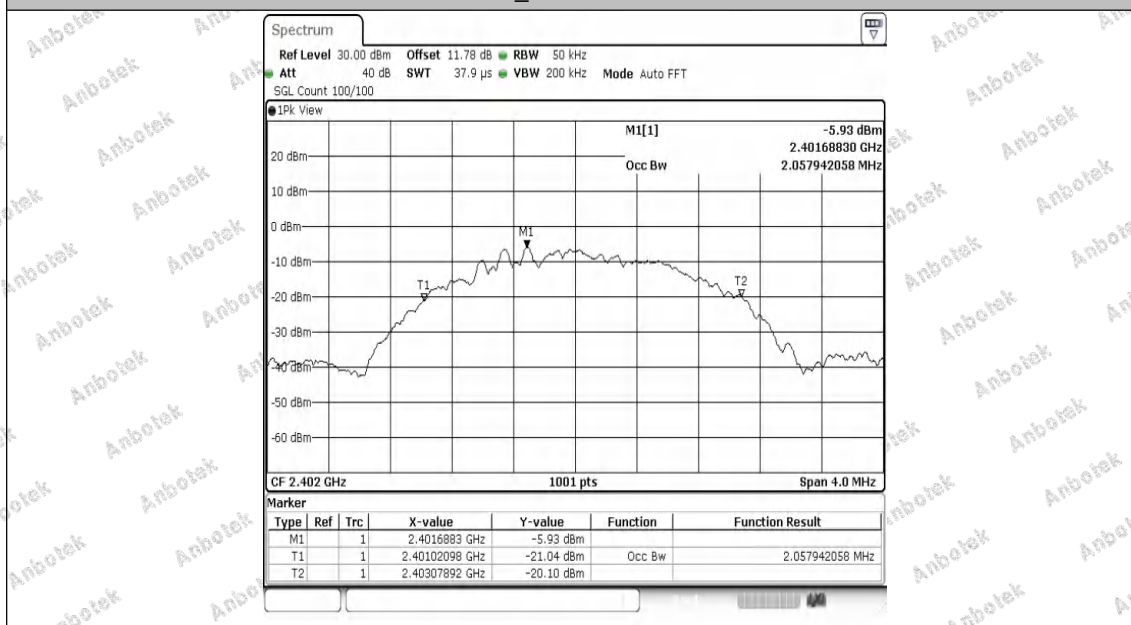


Test Graphs



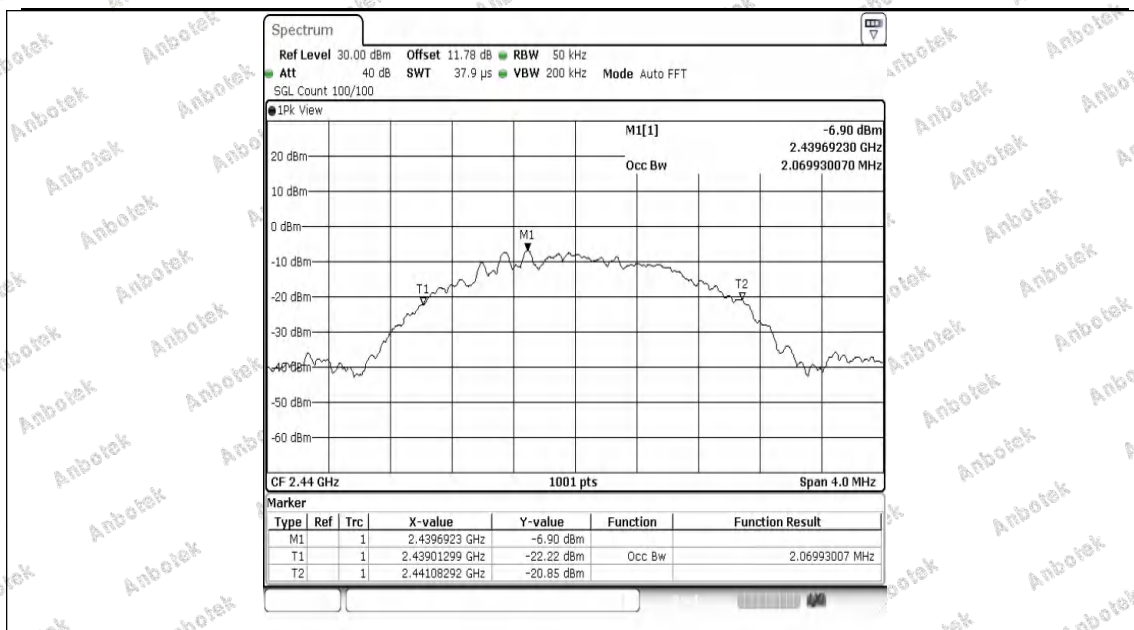


BLE_1M-Ant1-2480

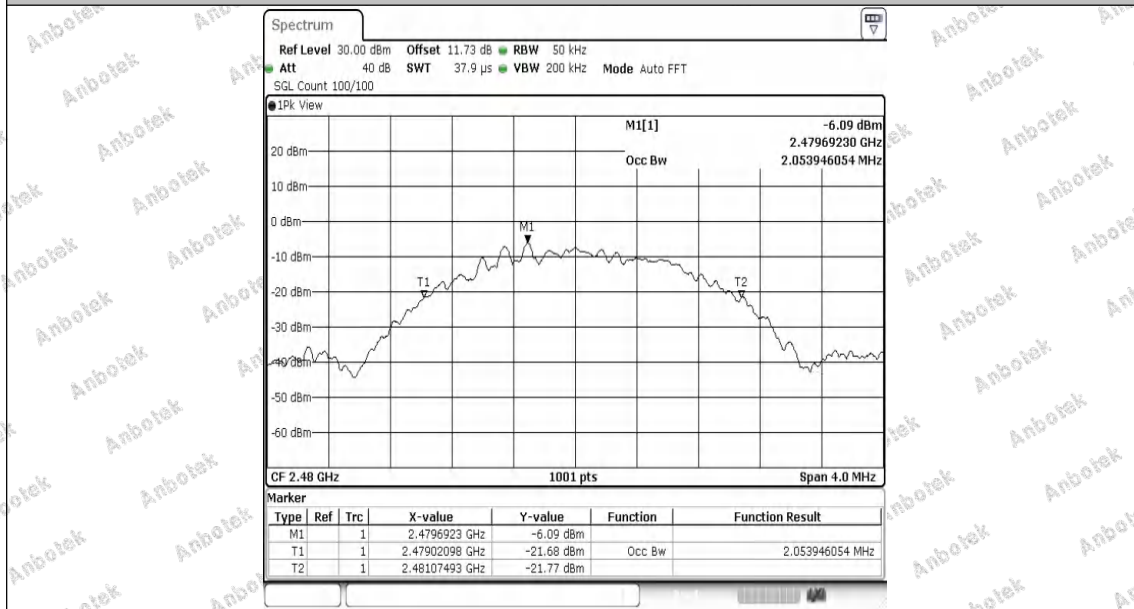


BLE_2M-Ant1-2402





BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

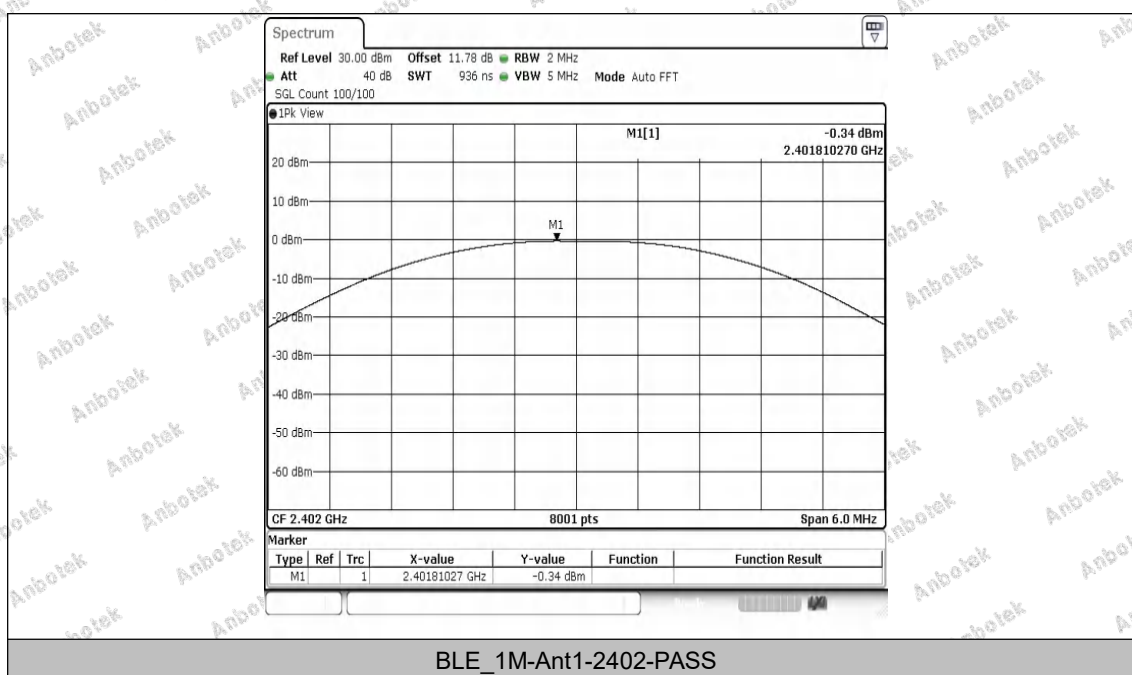


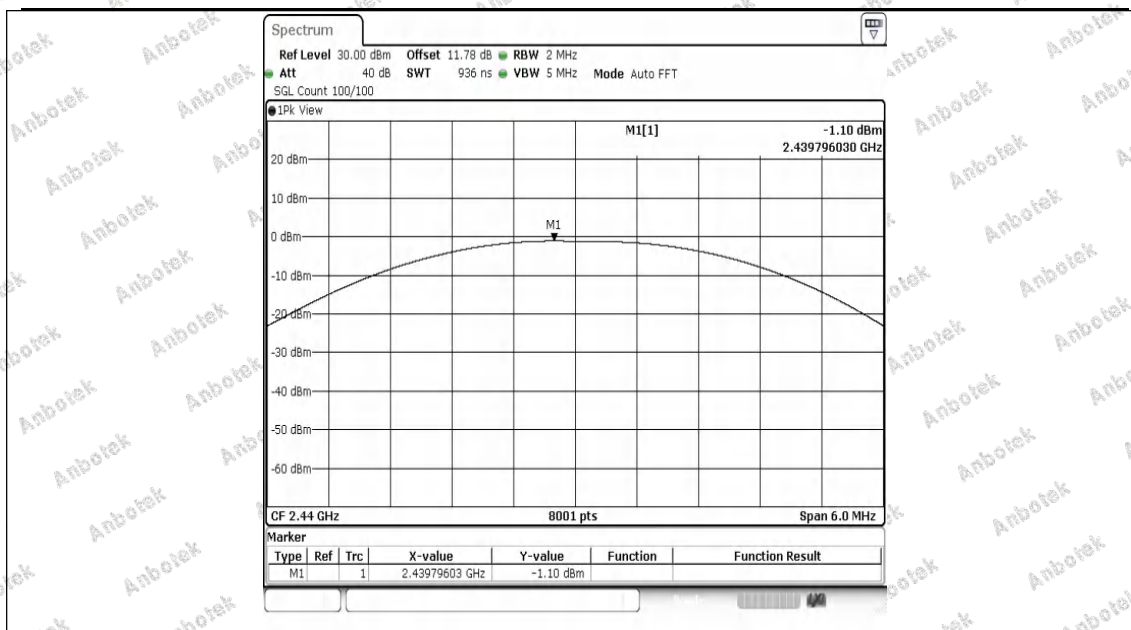
Appendix C: Maximum conducted output power

Test Result Peak

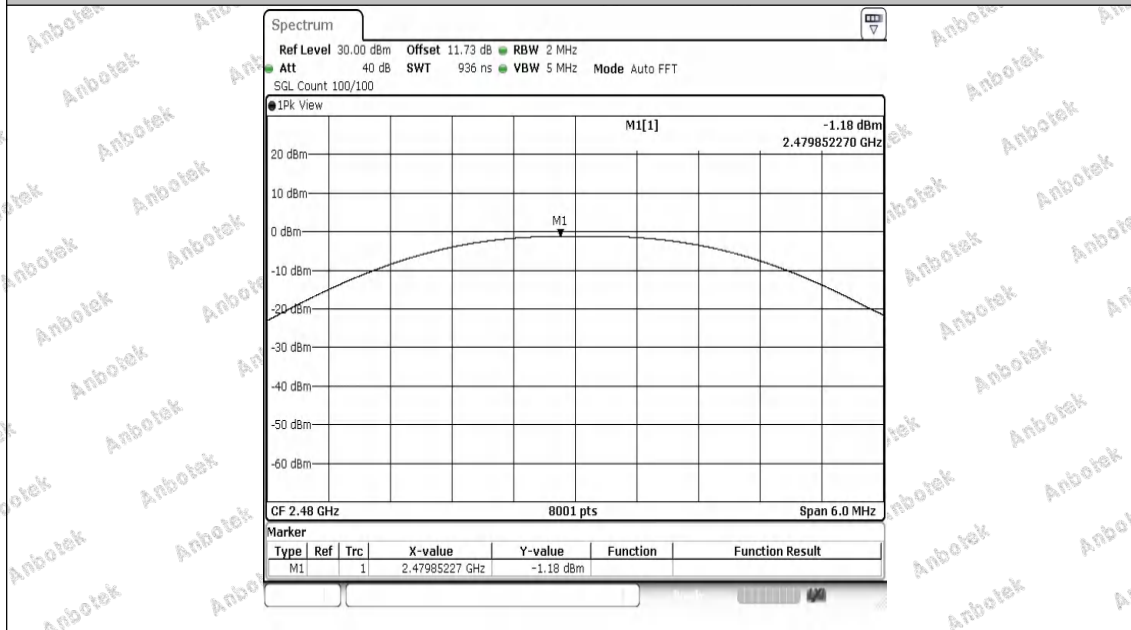
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.34	≤30	PASS
BLE_1M	Ant1	2440	-1.10	≤30	PASS
BLE_1M	Ant1	2480	-1.18	≤30	PASS
BLE_2M	Ant1	2402	-0.35	≤30	PASS
BLE_2M	Ant1	2440	-1.23	≤30	PASS
BLE_2M	Ant1	2480	-1.02	≤30	PASS

Test Graphs Peak



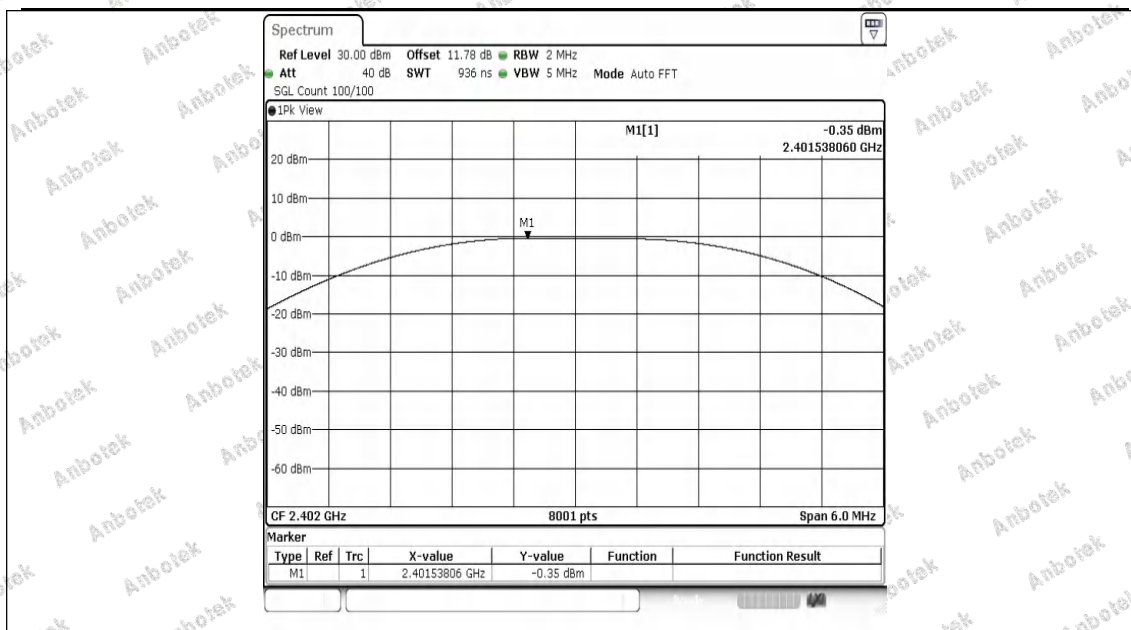


BLE_1M-Ant1-2440-PASS

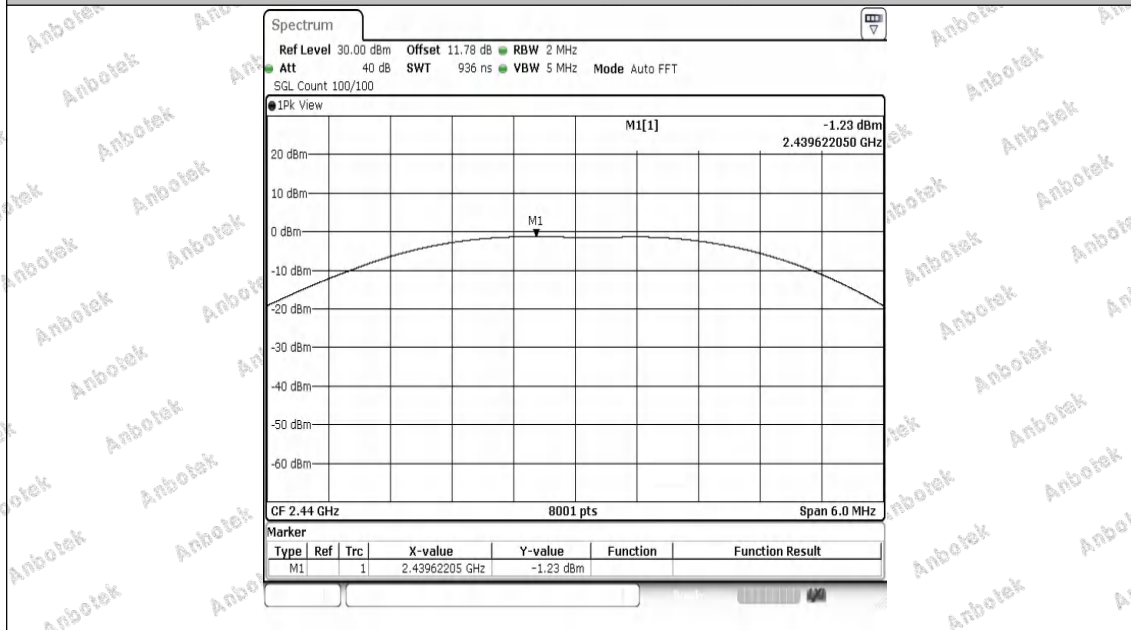


BLE_1M-Ant1-2480-PASS



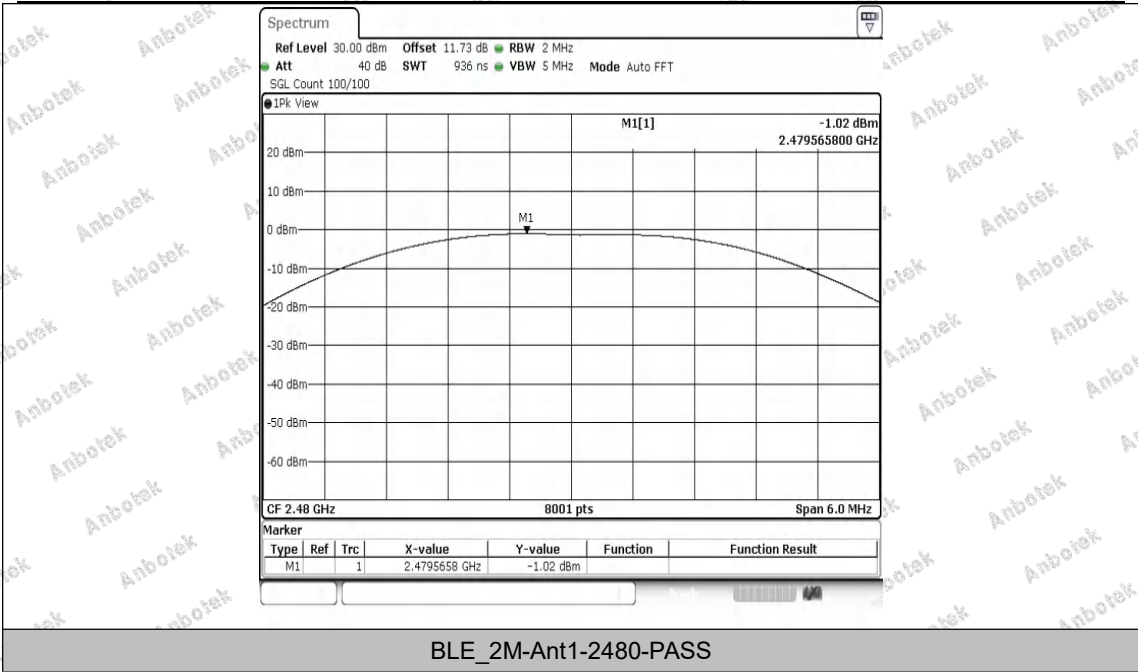


BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS





Appendix D: Maximum power spectral density

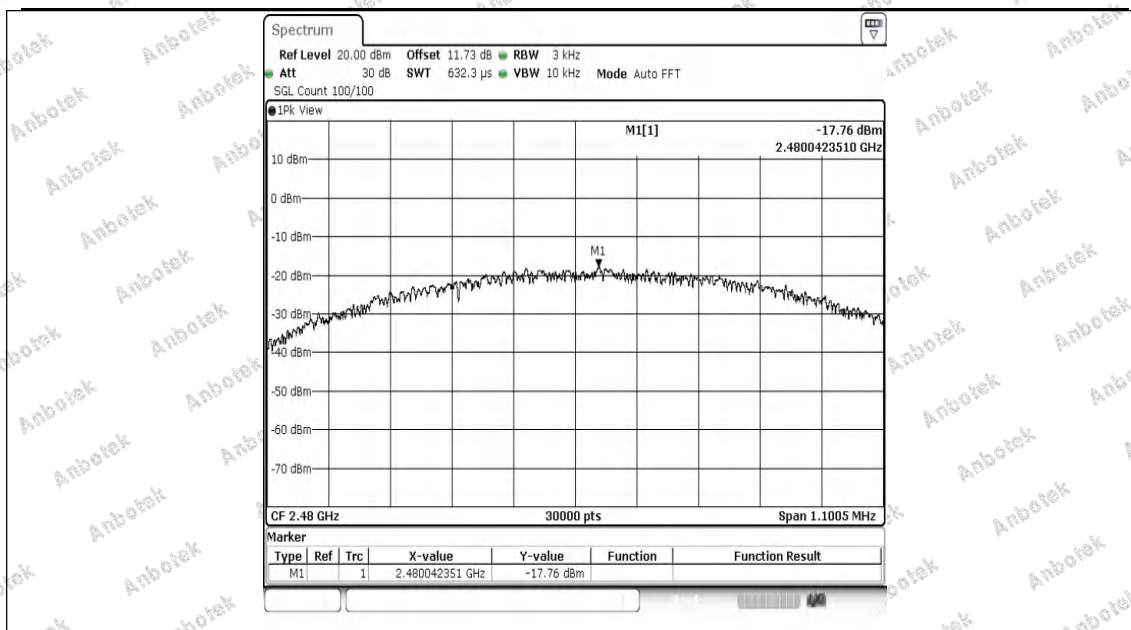
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.70	≤8.00	PASS
BLE_1M	Ant1	2440	-18.51	≤8.00	PASS
BLE_1M	Ant1	2480	-17.76	≤8.00	PASS
BLE_2M	Ant1	2402	-22.83	≤8.00	PASS
BLE_2M	Ant1	2440	-23.62	≤8.00	PASS
BLE_2M	Ant1	2480	-23.28	≤8.00	PASS

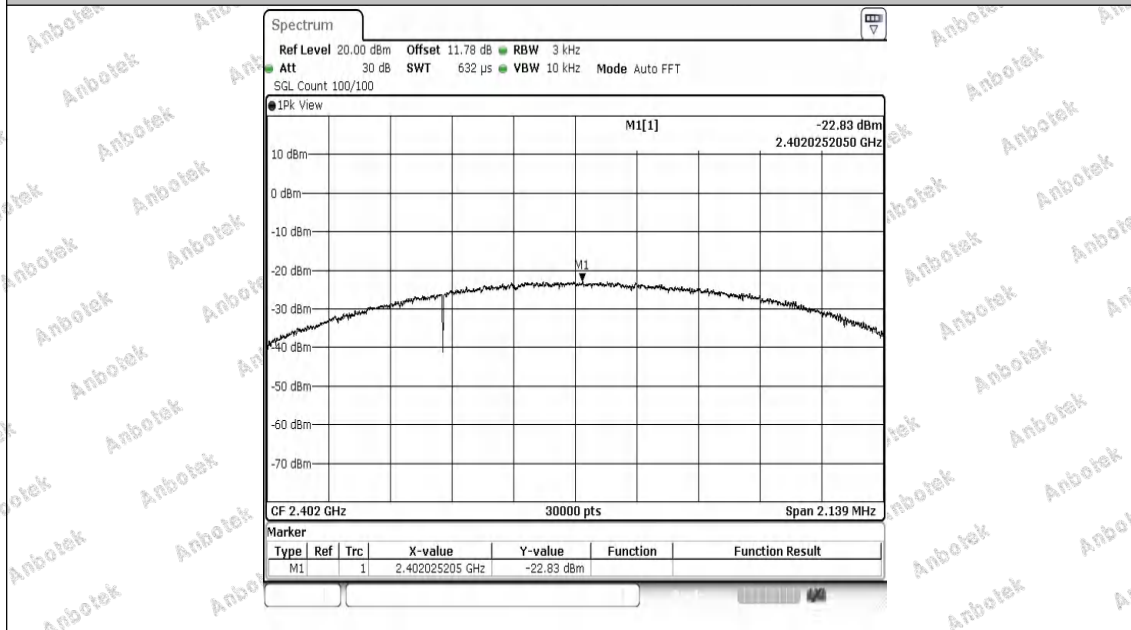


Test Graphs



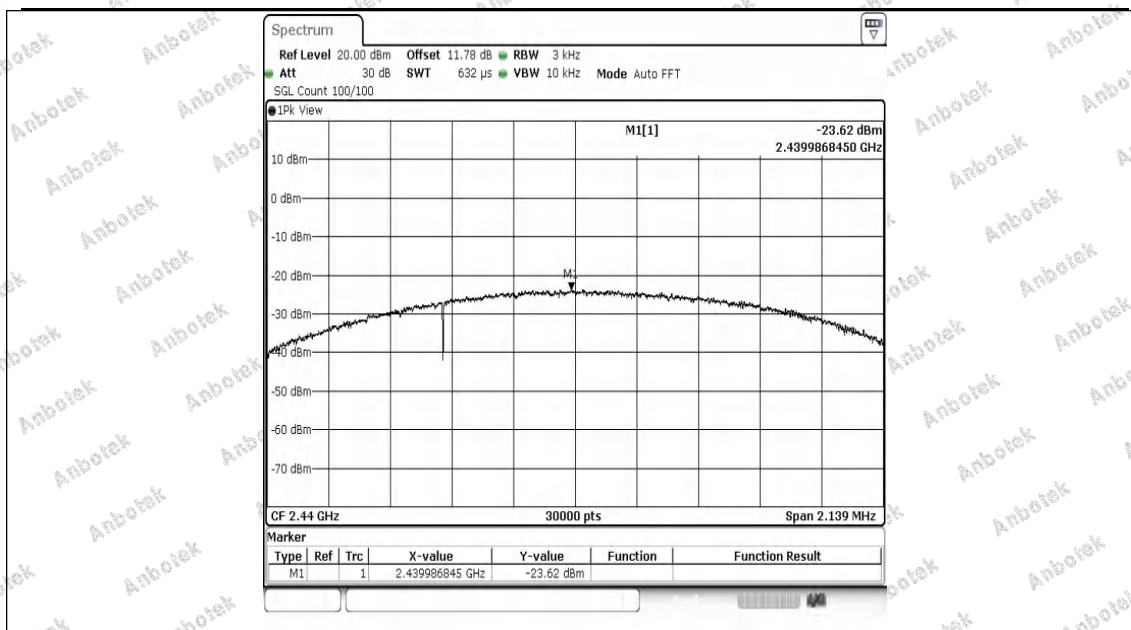


BLE_1M-Ant1-2480-PASS

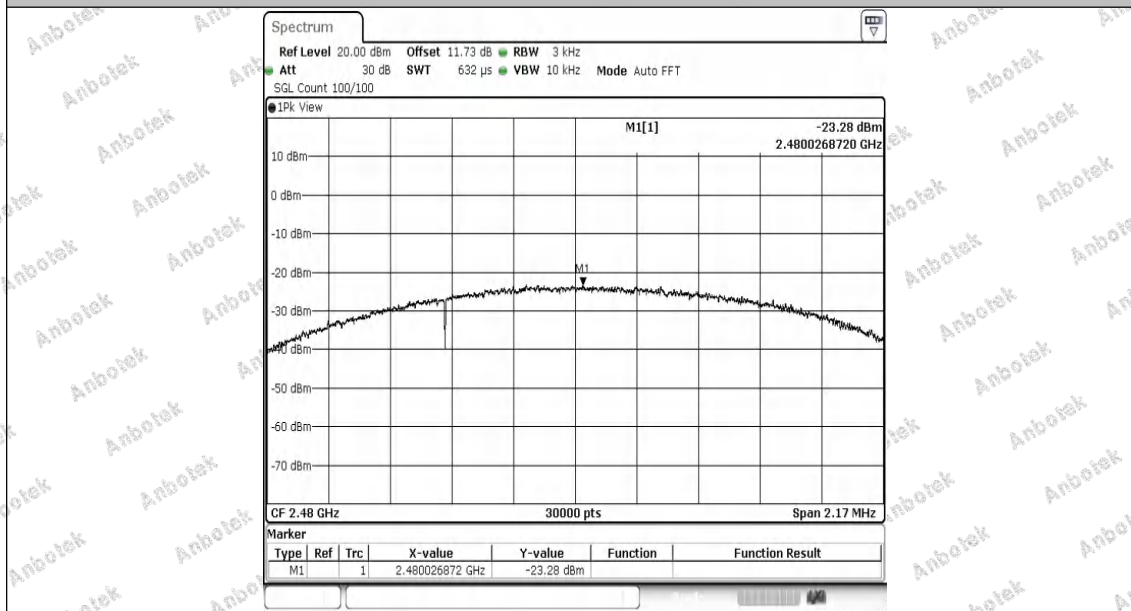


BLE_2M-Ant1-2402-PASS





BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



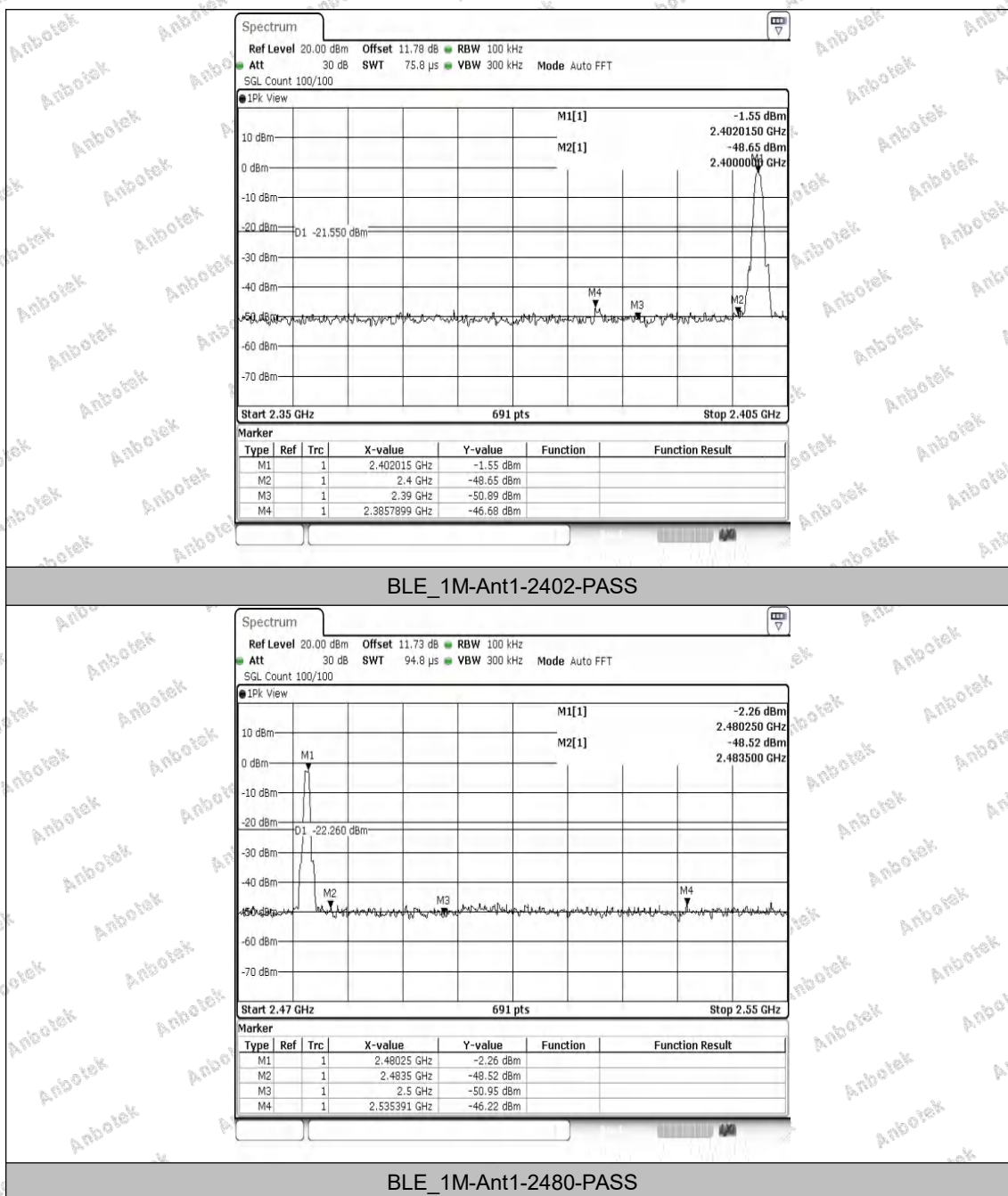
Appendix E: Band edge measurements

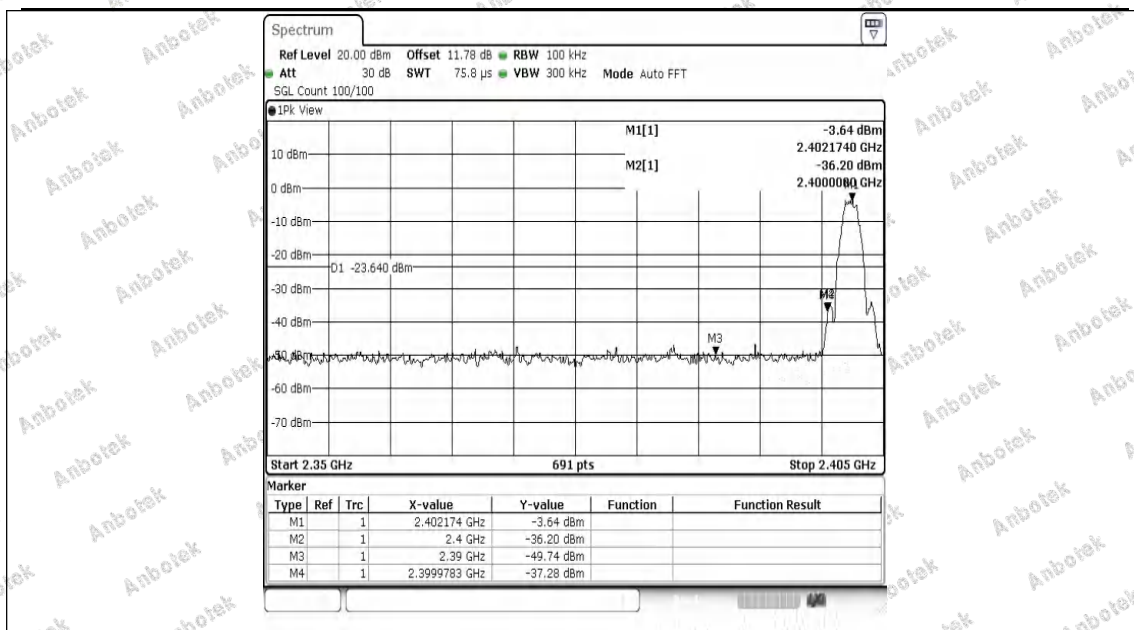
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.55	-46.68	≤-21.55	PASS
BLE_1M	Ant1	High	2480	-2.26	-46.22	≤-22.26	PASS
BLE_2M	Ant1	Low	2402	-3.64	-37.28	≤-23.64	PASS
BLE_2M	Ant1	High	2480	-5.02	-46.66	≤-25.02	PASS

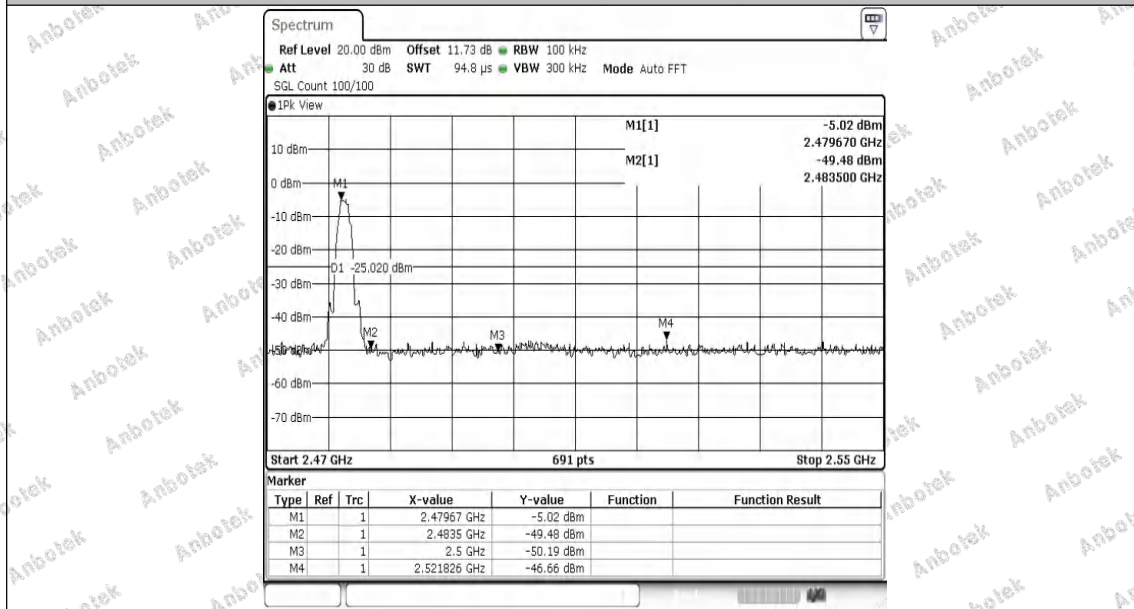


Test Graphs





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS



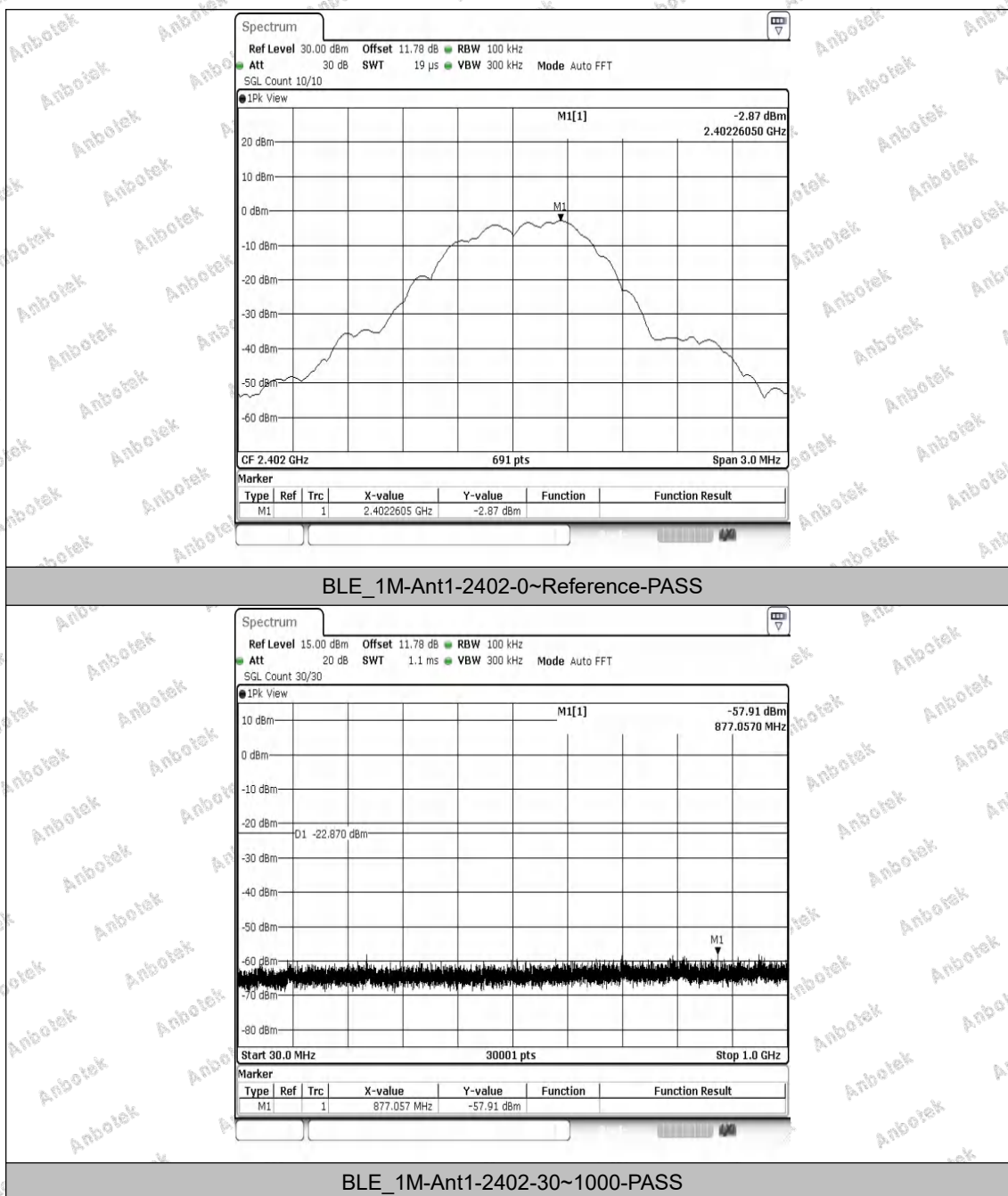
Appendix F: Conducted Spurious Emission

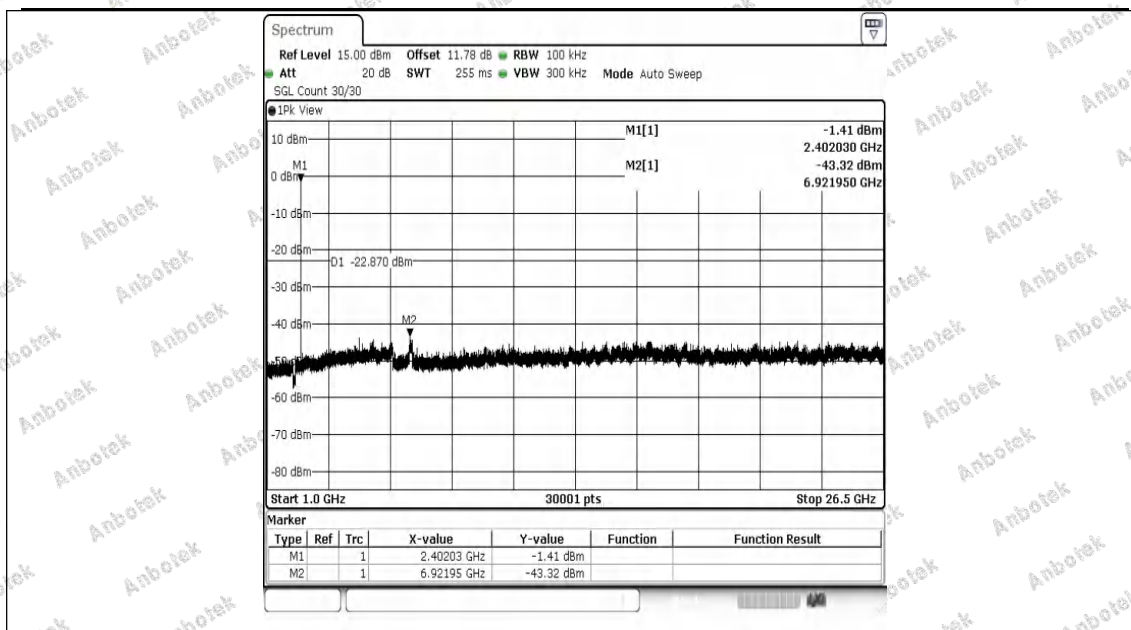
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.87	-2.87	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.87	-57.91	≤-22.87	PASS
BLE_1M	Ant1	2402	1000~26500	-2.87	-43.32	≤-22.87	PASS
BLE_1M	Ant1	2440	0~Reference	-2.35	-2.35	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.35	-58.33	≤-22.35	PASS
BLE_1M	Ant1	2440	1000~26500	-2.35	-43.48	≤-22.35	PASS
BLE_1M	Ant1	2480	0~Reference	-3.48	-3.48	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.48	-58.38	≤-23.48	PASS
BLE_1M	Ant1	2480	1000~26500	-3.48	-44.29	≤-23.48	PASS
BLE_2M	Ant1	2402	0~Reference	-4.63	-4.63	---	PASS
BLE_2M	Ant1	2402	30~1000	-4.63	-58.04	≤-24.63	PASS
BLE_2M	Ant1	2402	1000~26500	-4.63	-43	≤-24.63	PASS
BLE_2M	Ant1	2440	0~Reference	-5.00	-5.00	---	PASS
BLE_2M	Ant1	2440	30~1000	-5.00	-58.4	≤-25	PASS
BLE_2M	Ant1	2440	1000~26500	-5.00	-43.83	≤-25	PASS
BLE_2M	Ant1	2480	0~Reference	-6.35	-6.35	---	PASS
BLE_2M	Ant1	2480	30~1000	-6.35	-44.14	≤-26.35	PASS
BLE_2M	Ant1	2480	1000~26500	-6.35	-42.25	≤-26.35	PASS

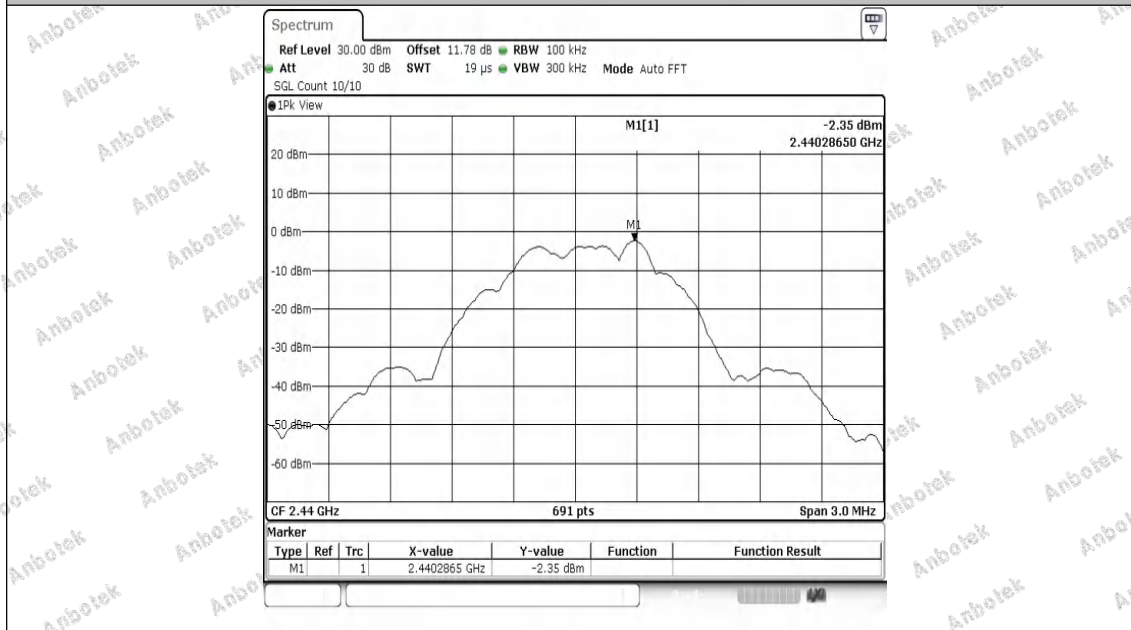


Test Graphs



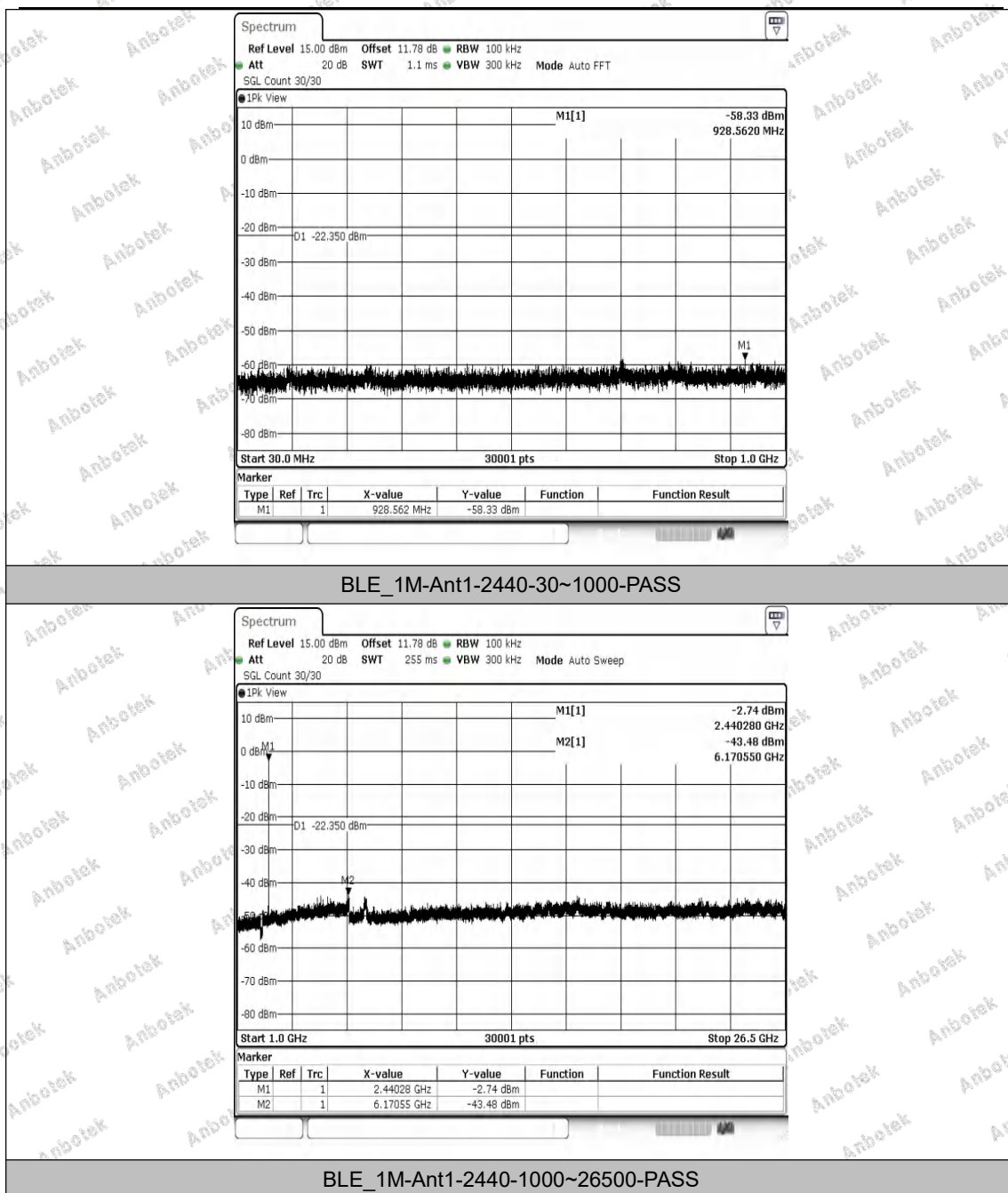


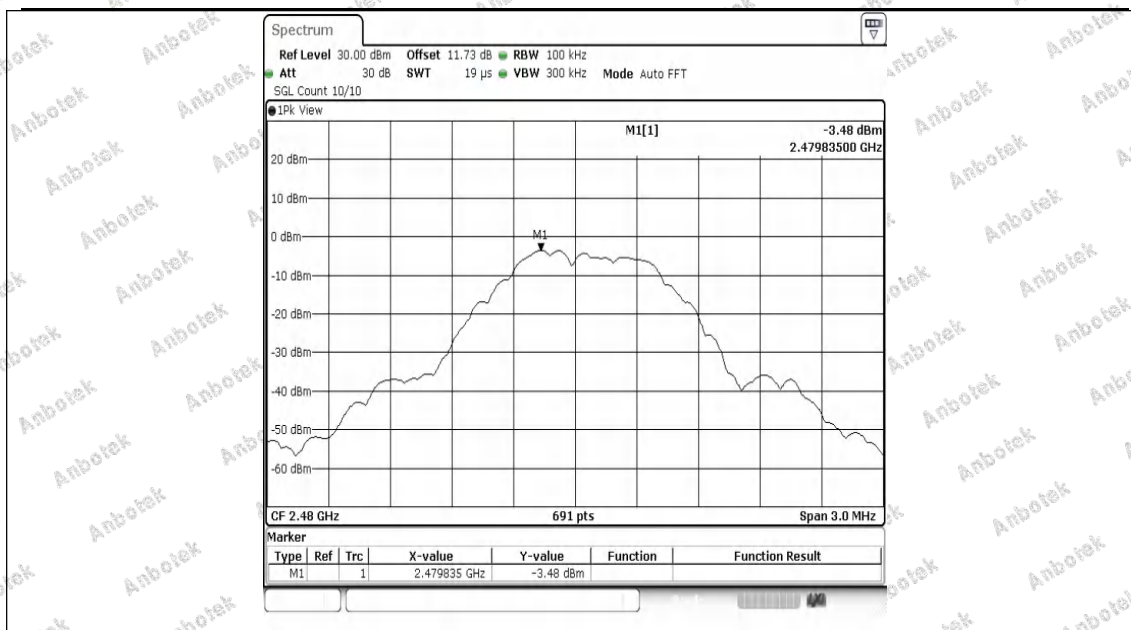
BLE_1M-Ant1-2402-1000~26500-PASS



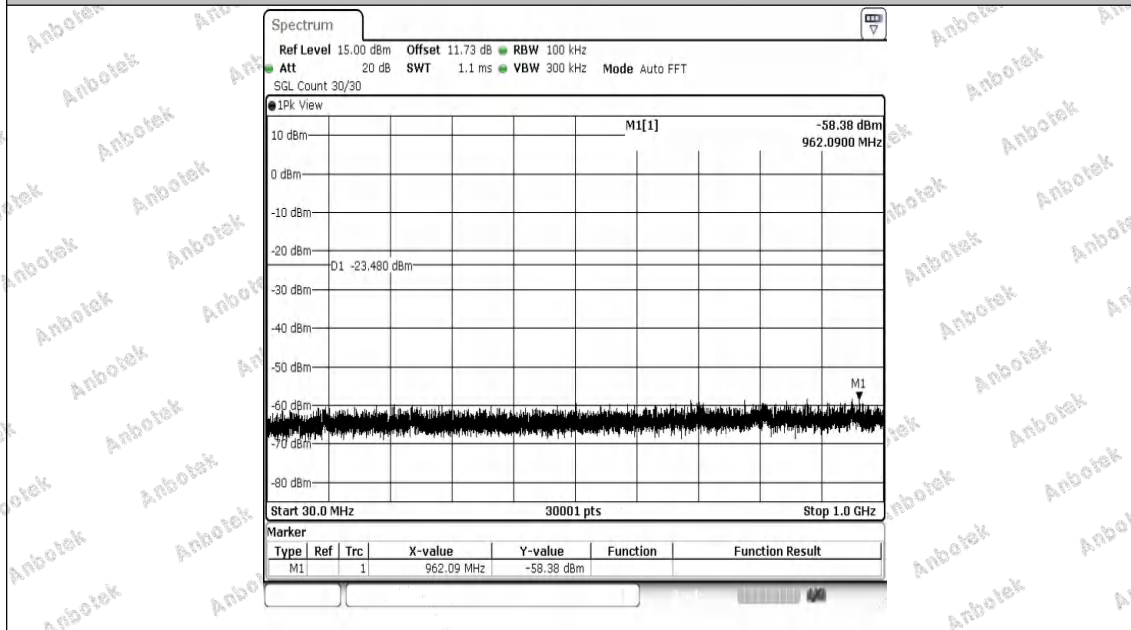
BLE_1M-Ant1-2440-0~Reference-PASS





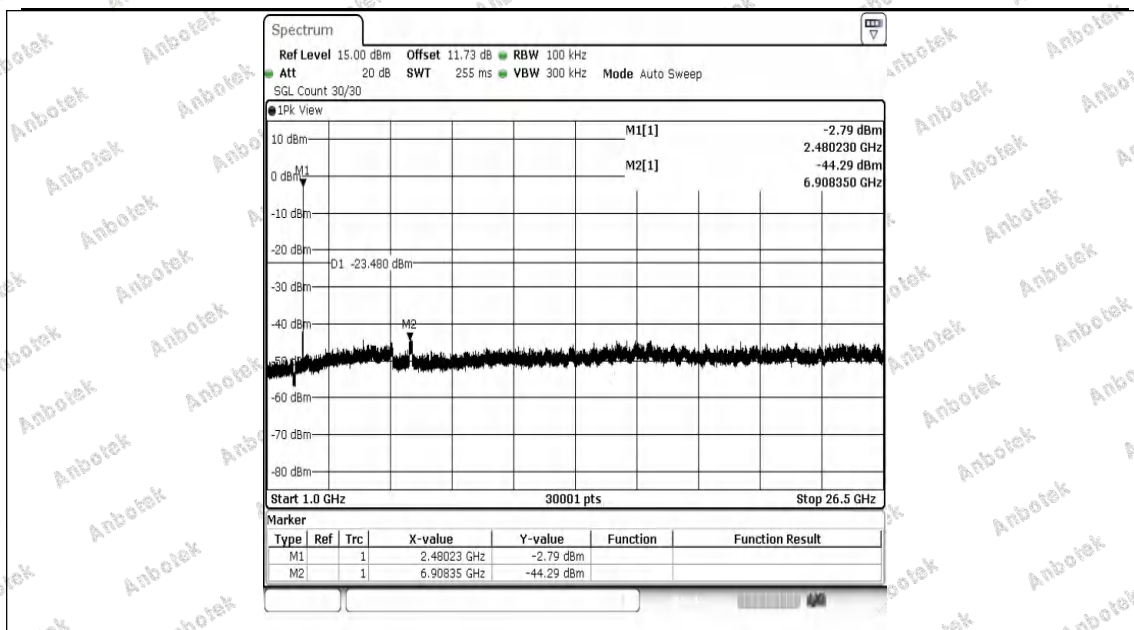


BLE_1M-Ant1-2480-0~Reference-PASS

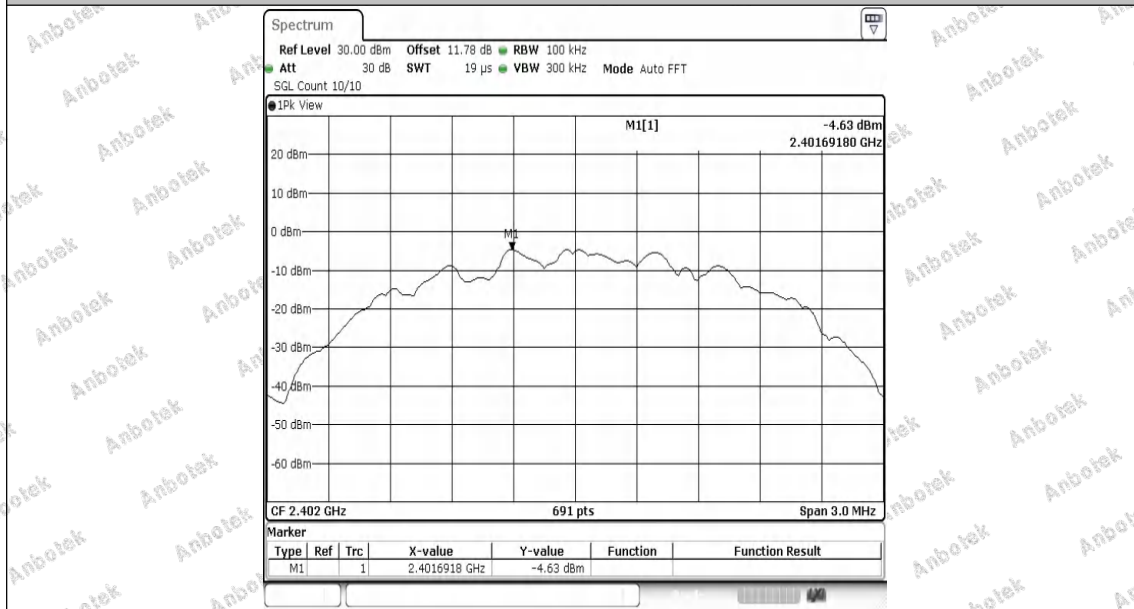


BLE_1M-Ant1-2480-30~1000-PASS



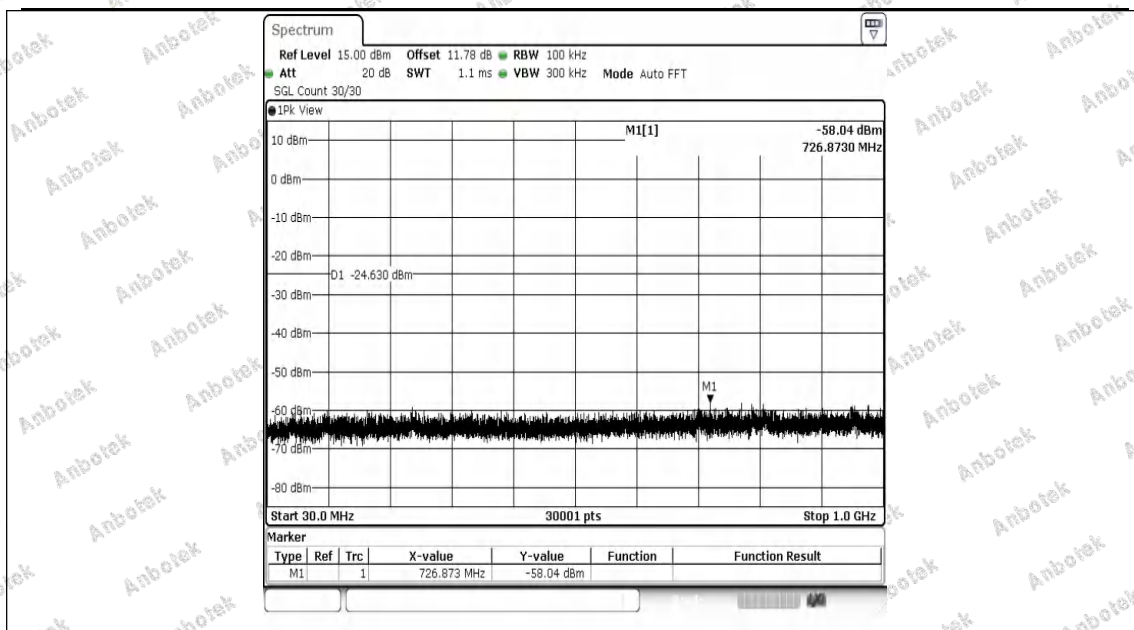


BLE_1M-Ant1-2480-1000~26500-PASS

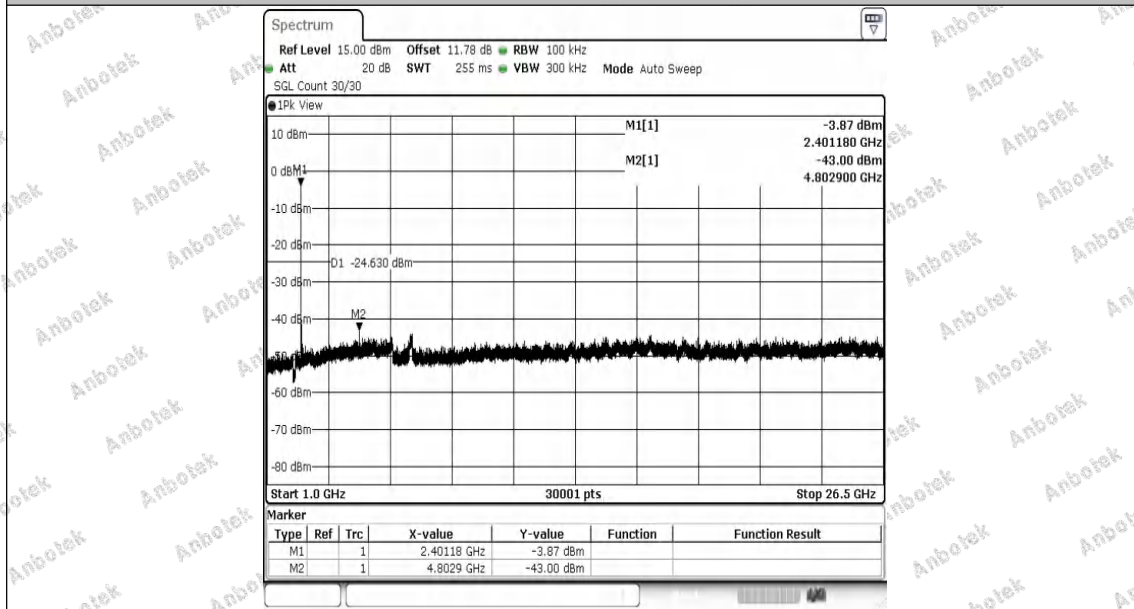


BLE_2M-Ant1-2402-0~Reference-PASS



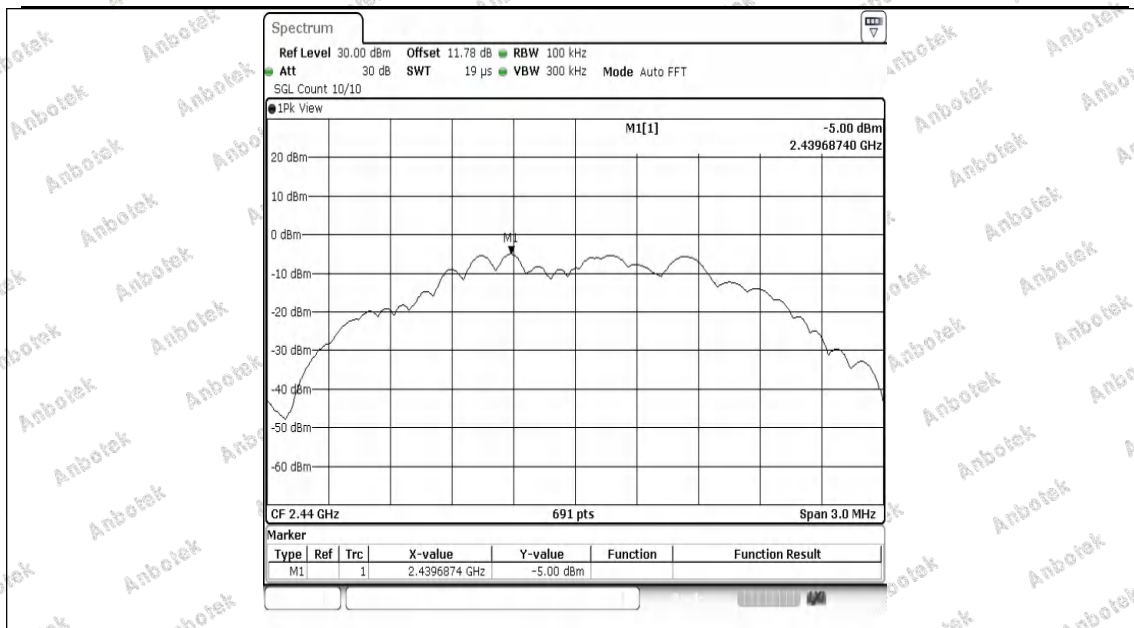


BLE_2M-Ant1-2402-30~1000-PASS

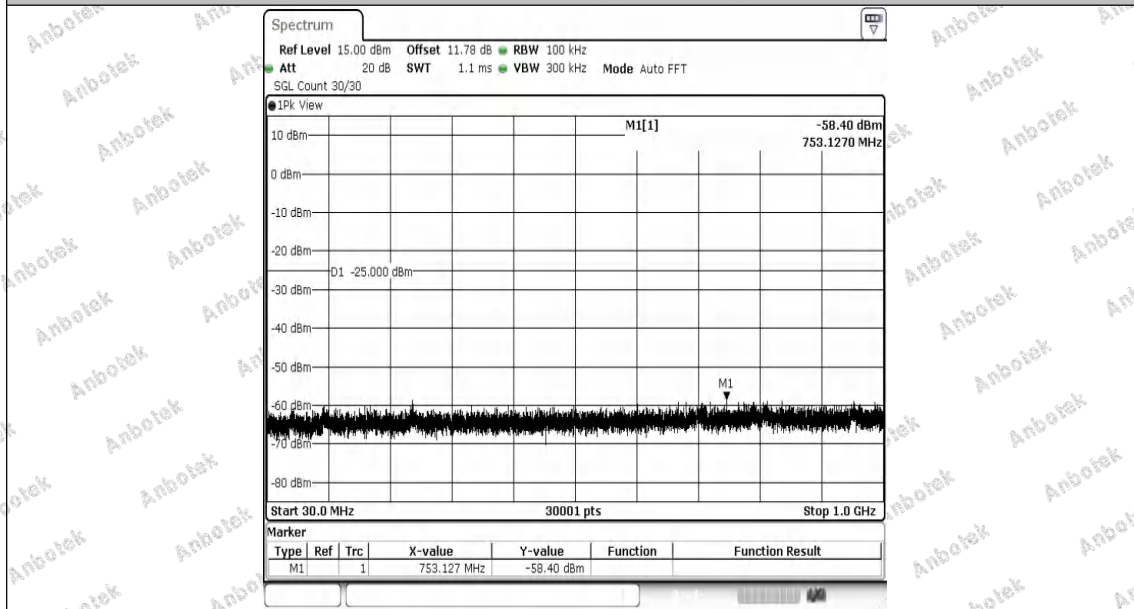


BLE_2M-Ant1-2402-1000~26500-PASS



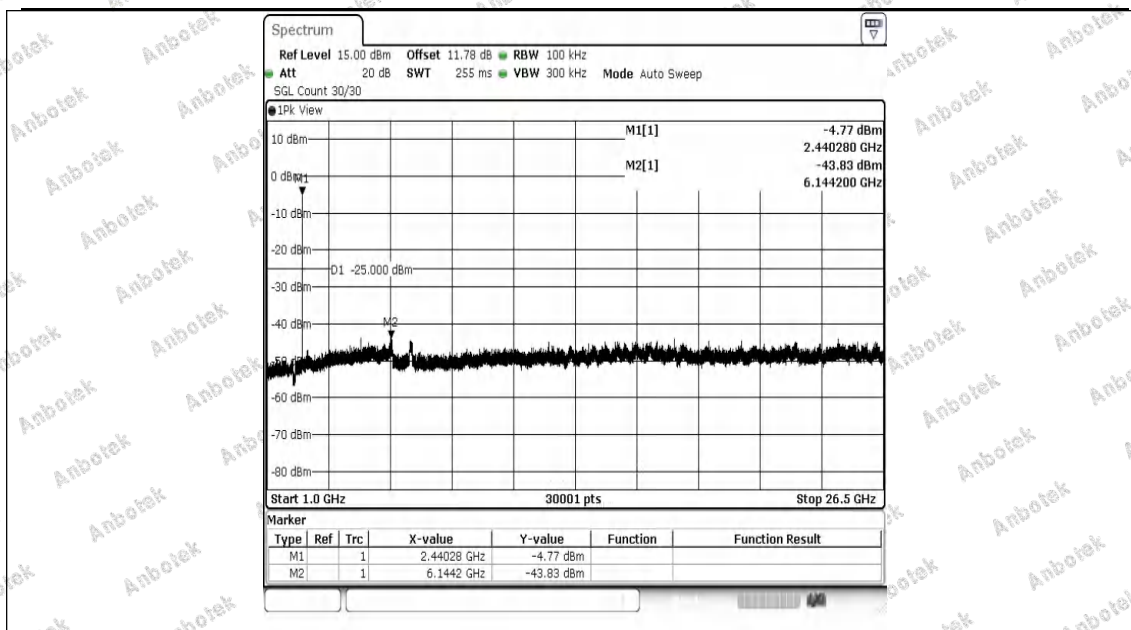


BLE_2M-Ant1-2440-0~Reference-PASS

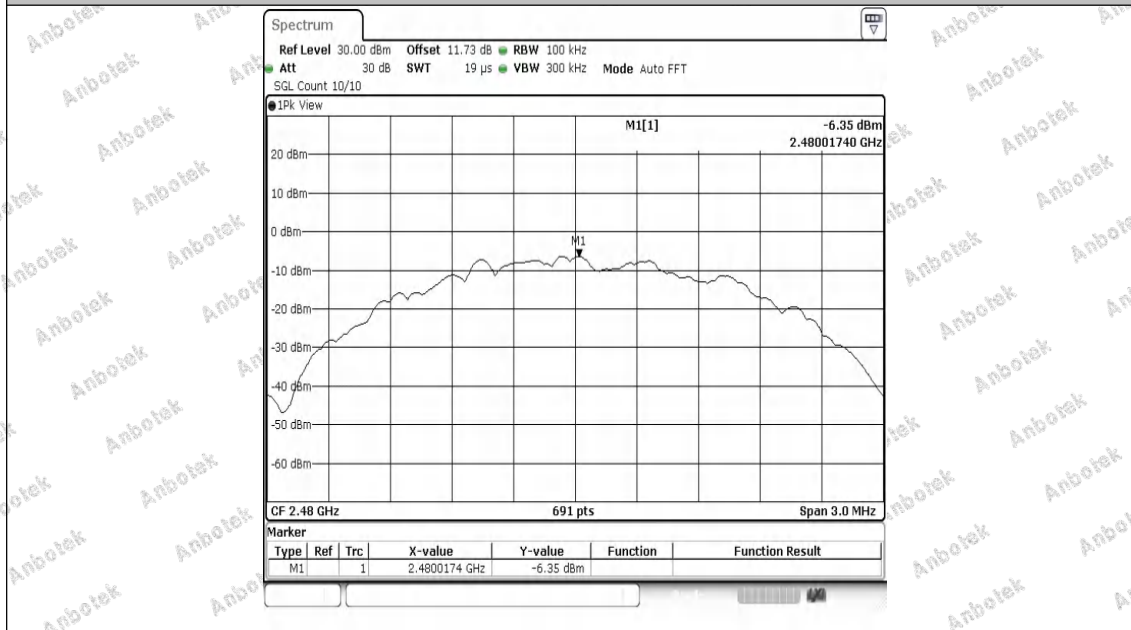


BLE_2M-Ant1-2440-30~1000-PASS



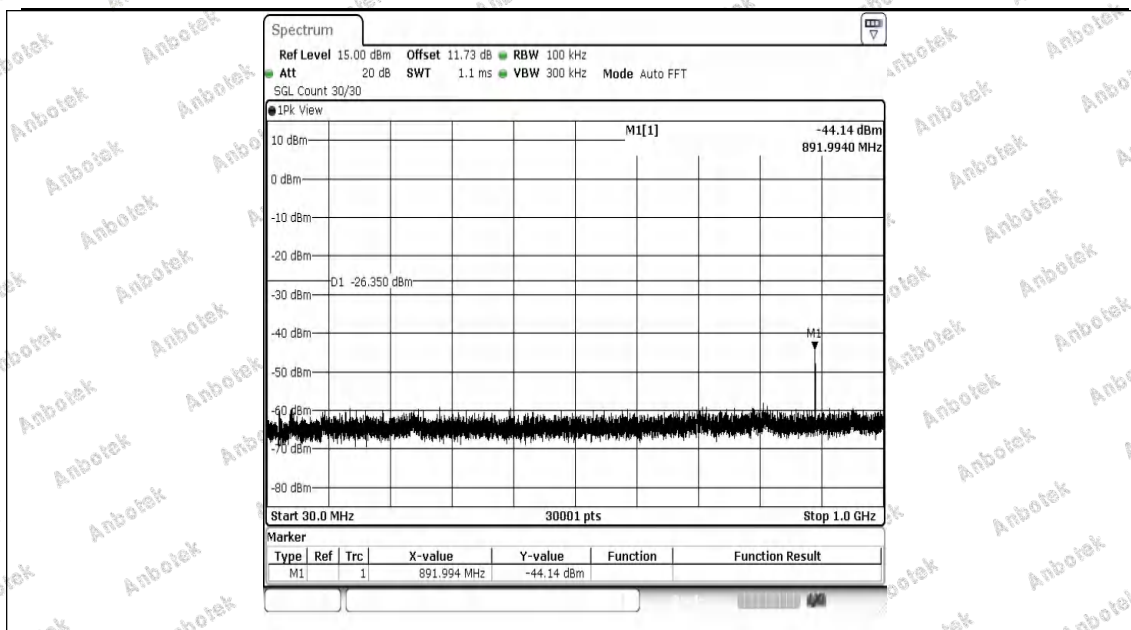


BLE_2M-Ant1-2440-1000~26500-PASS

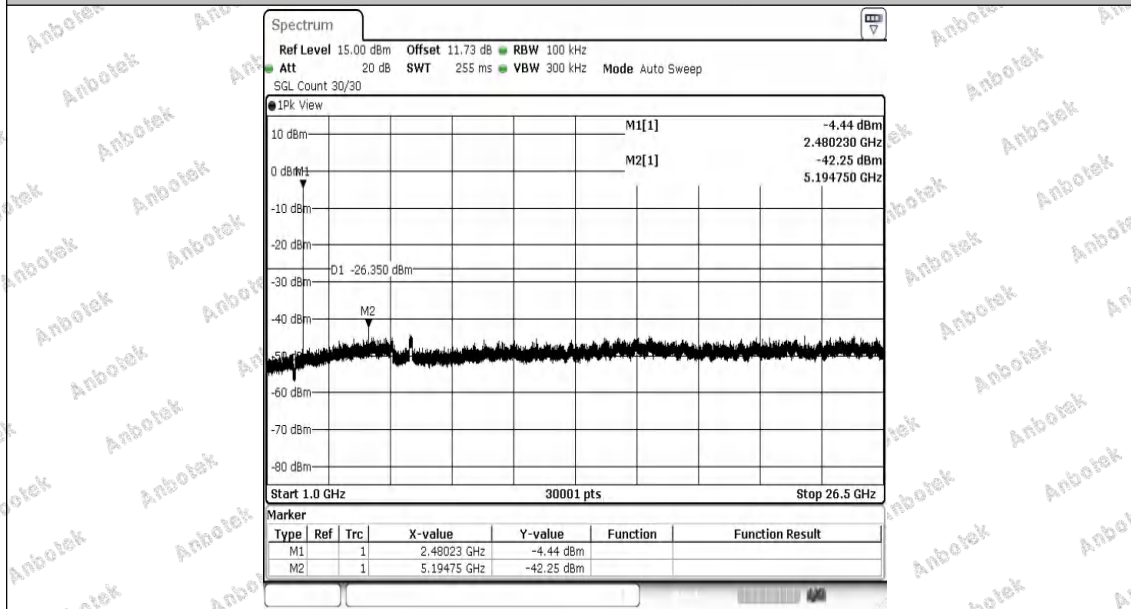


BLE_2M-Ant1-2480-0~Reference-PASS





BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



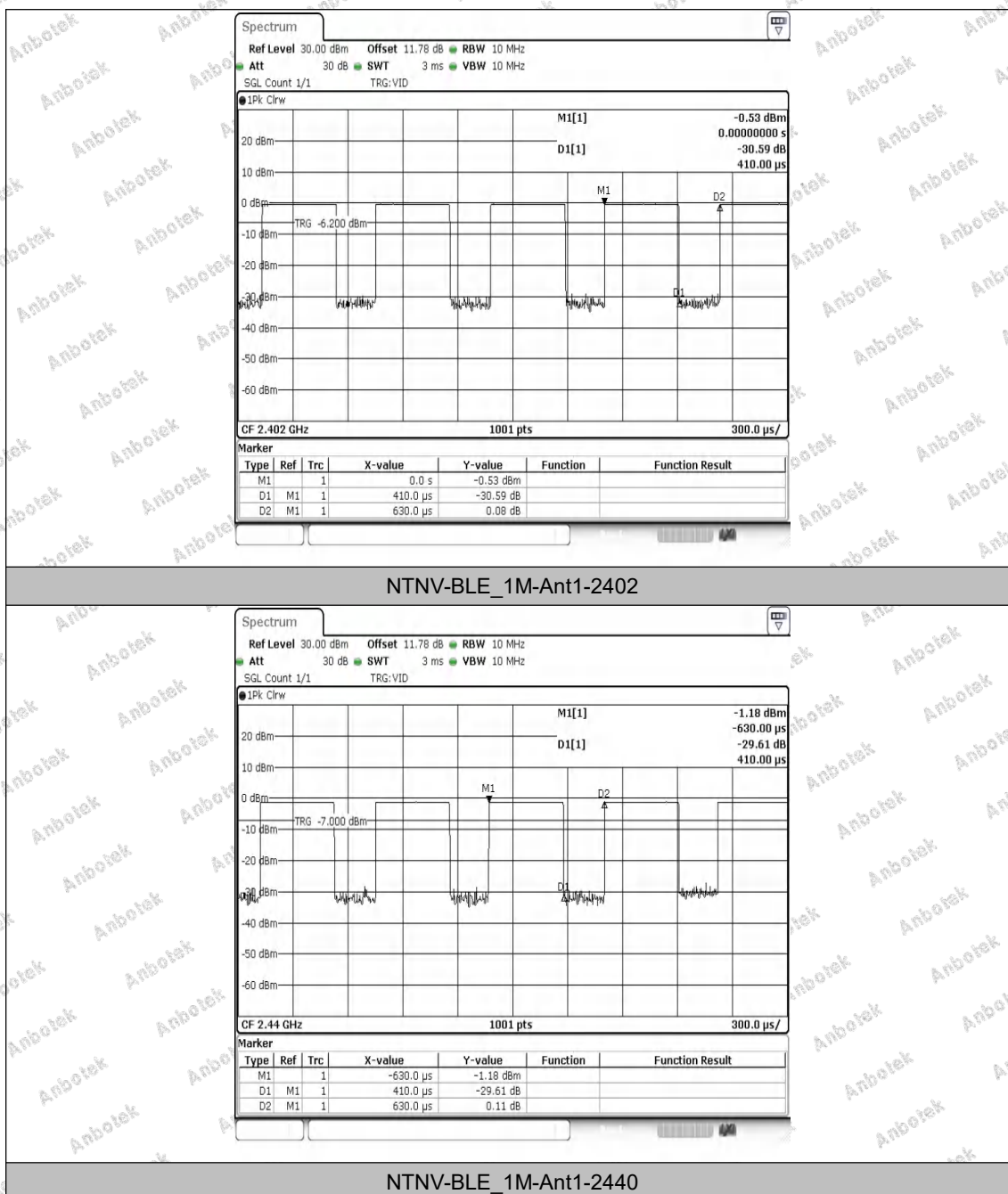
Appendix G: Duty Cycle

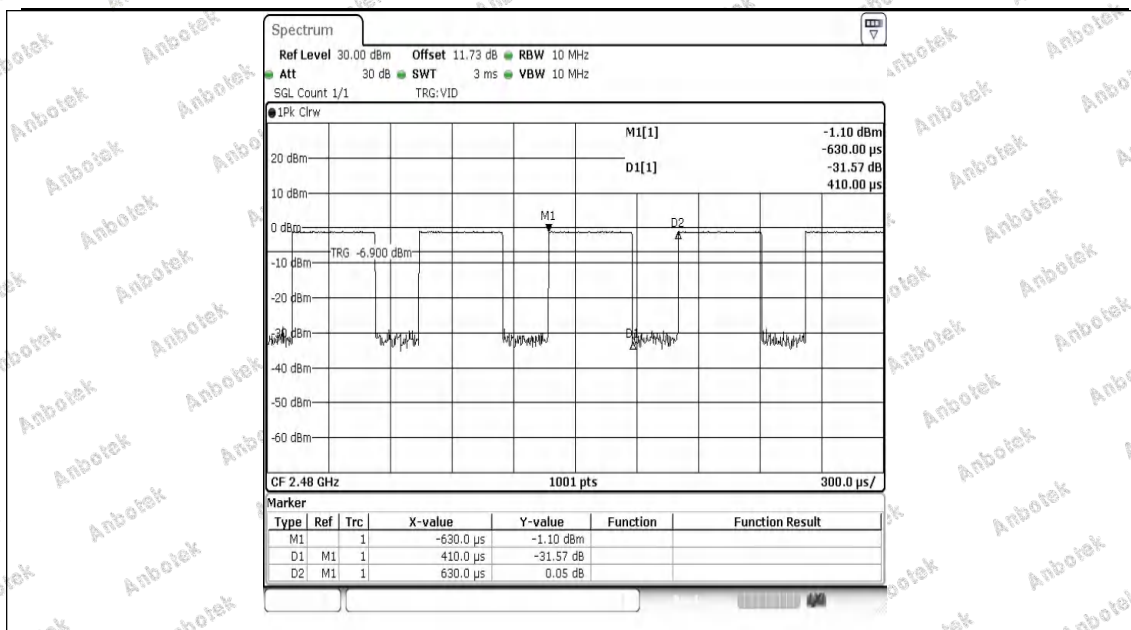
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2440	0.41	0.63	65.08	1.87
BLE_1M	Ant1	2480	0.41	0.63	65.08	1.87
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.21	0.63	33.33	4.77

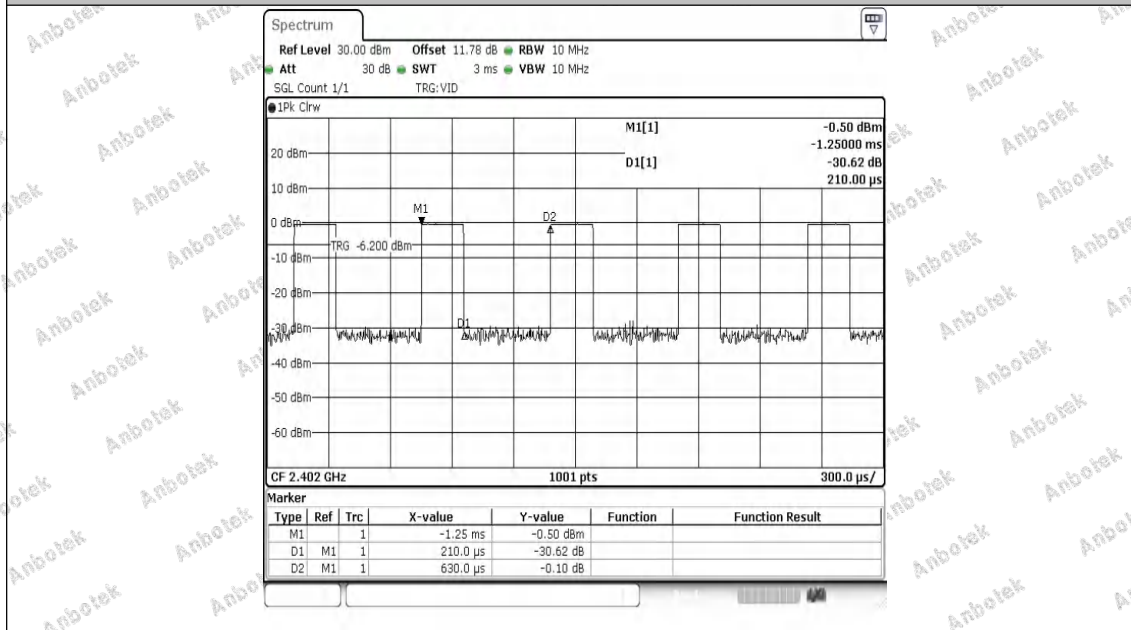


Test Graphs



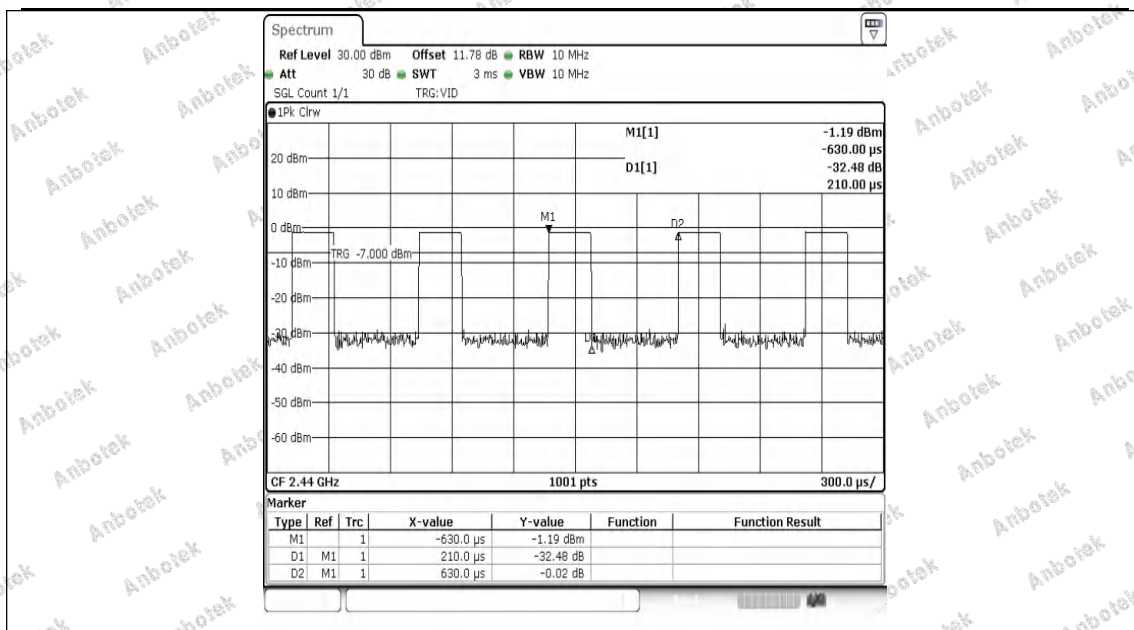


NTNV-BLE_1M-Ant1-2480

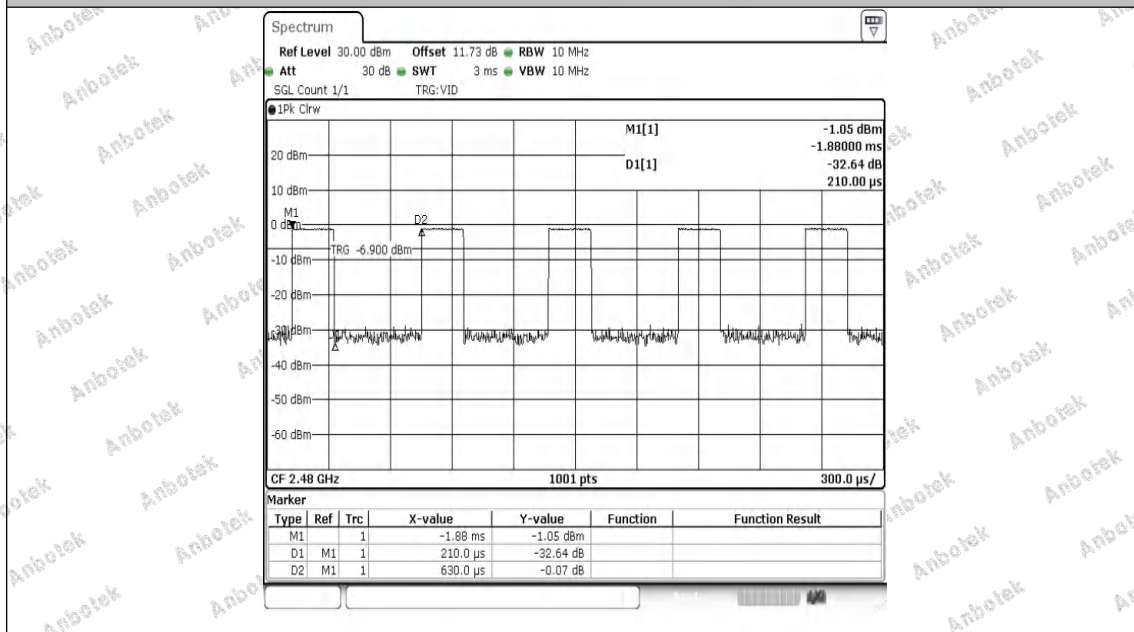


NTNV-BLE_2M-Ant1-2402





NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---END---

