

Appendix Test Data

Report No:	1811C40041212501	Test Sample NO:	1-2-2
Start Test Date:	2024.10.22	Finish Test Date:	2024.10.22
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	26.3℃	Relative Humidity:	45%
Pressure:	101 kPa		

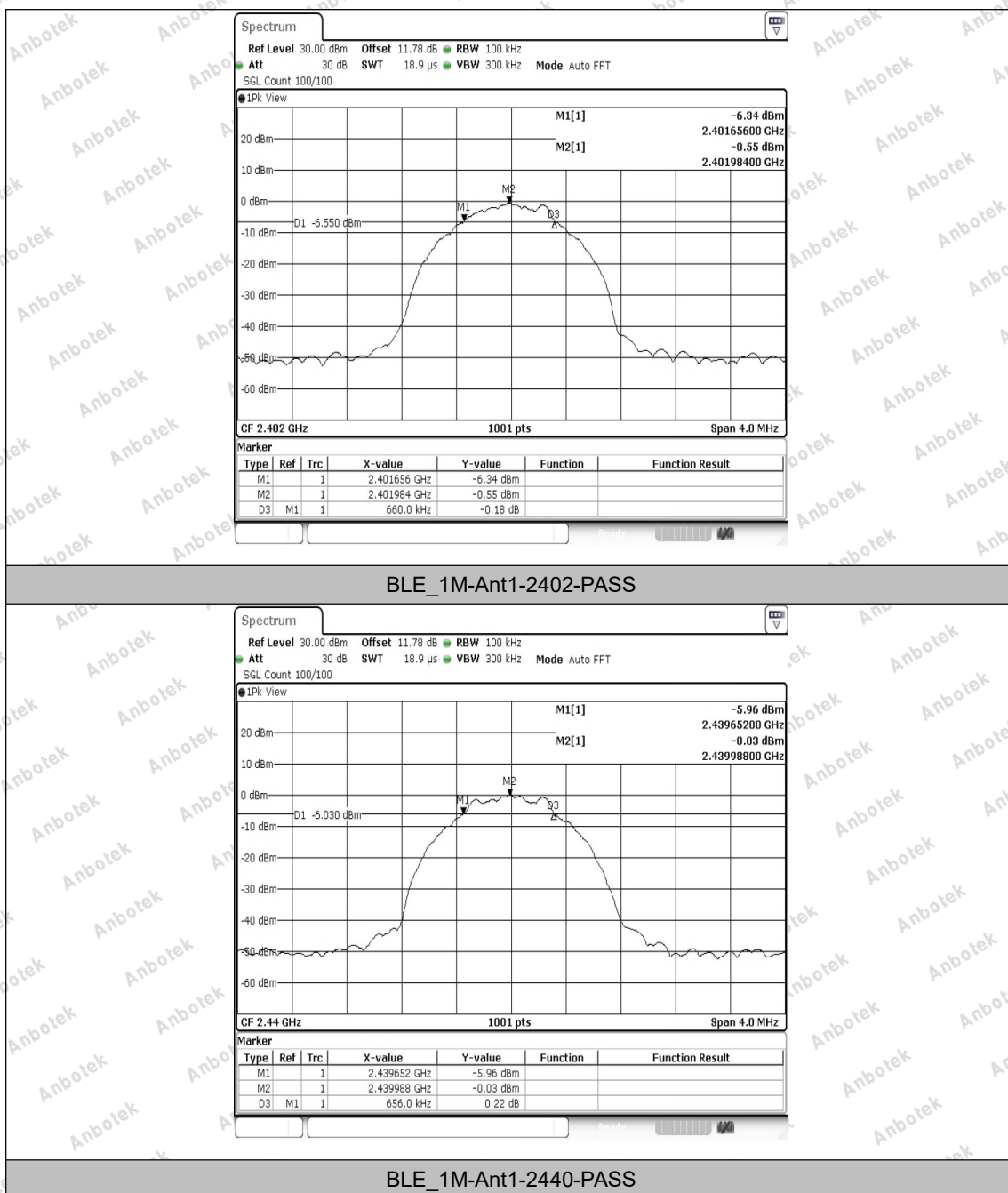
Appendix A: DTS Bandwidth

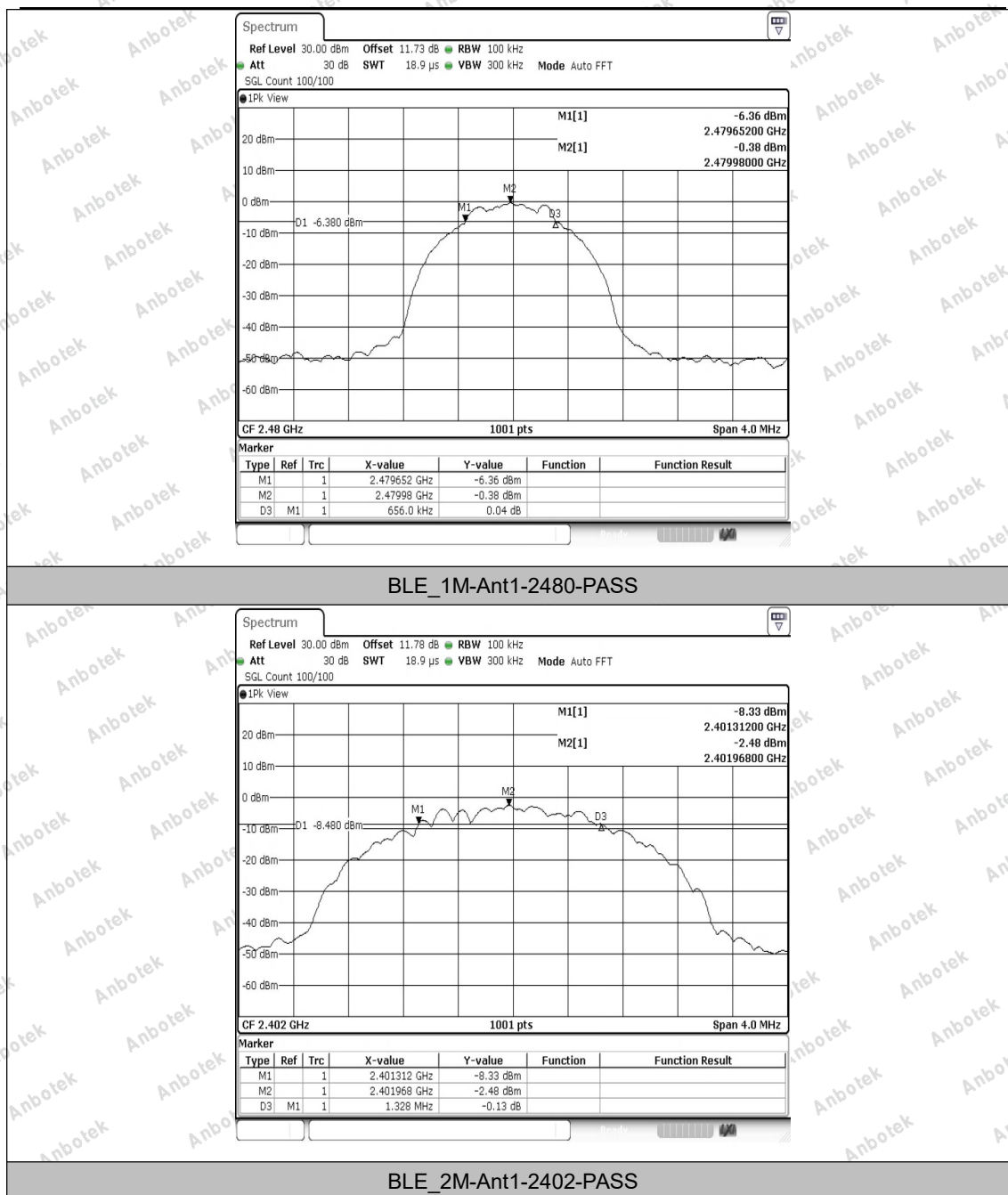
Test Result

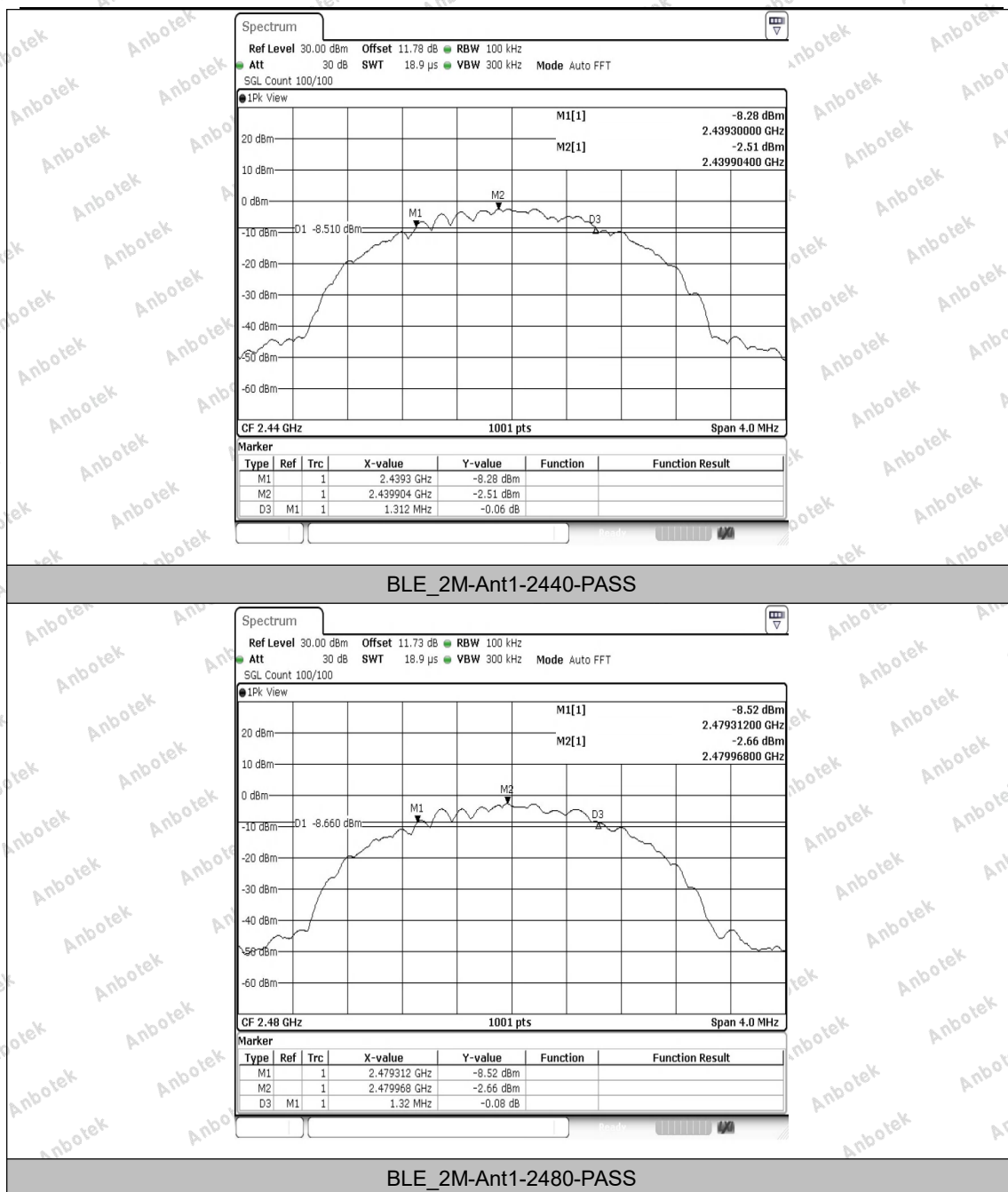
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.66	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.65	2440.31	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.65	2480.31	0.5	PASS
BLE_2M	Ant1	2402	1.33	2401.31	2402.64	0.5	PASS
BLE_2M	Ant1	2440	1.31	2439.30	2440.61	0.5	PASS
BLE_2M	Ant1	2480	1.32	2479.31	2480.63	0.5	PASS



Test Graphs







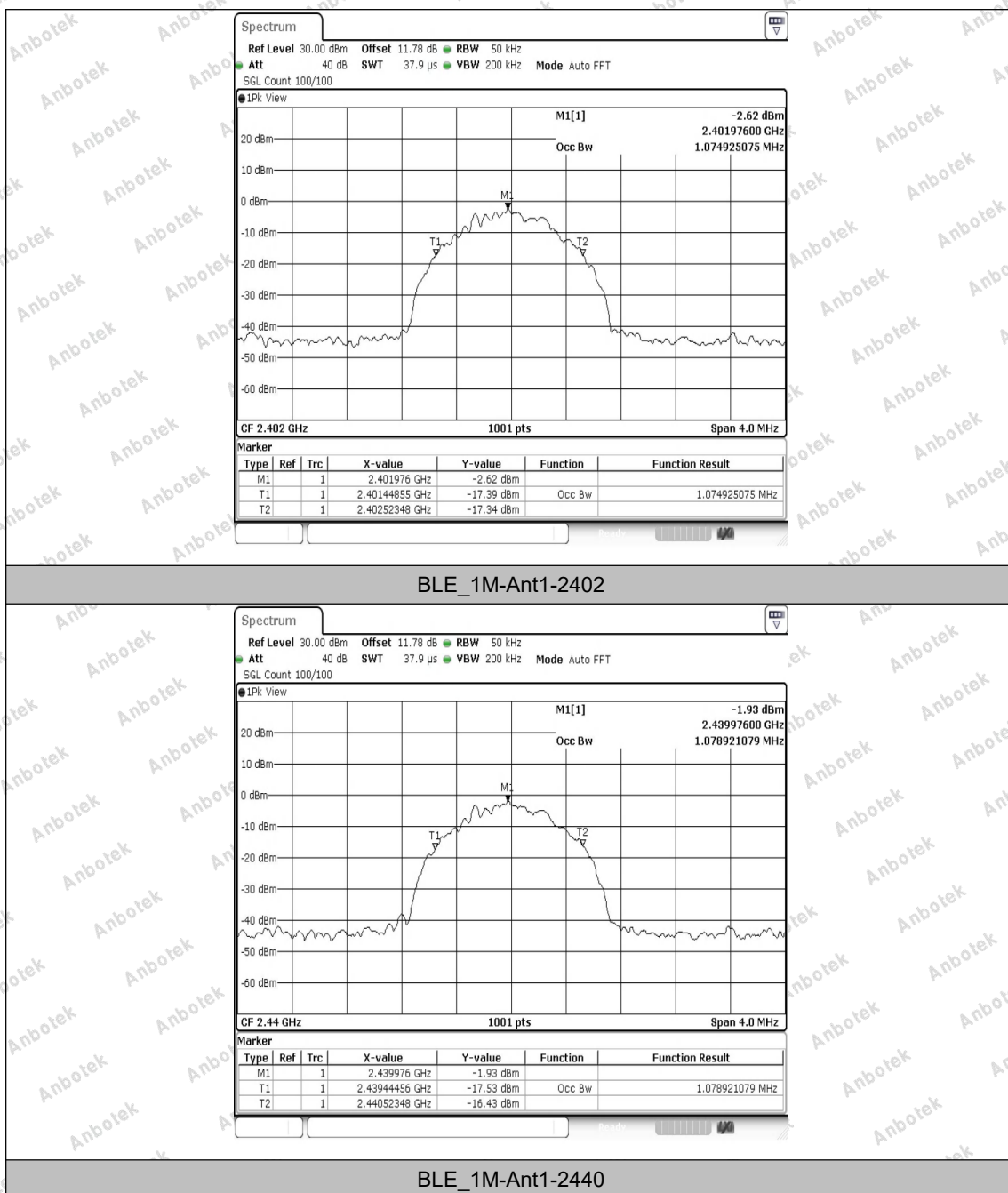
Appendix B: Occupied Channel Bandwidth

Test Result

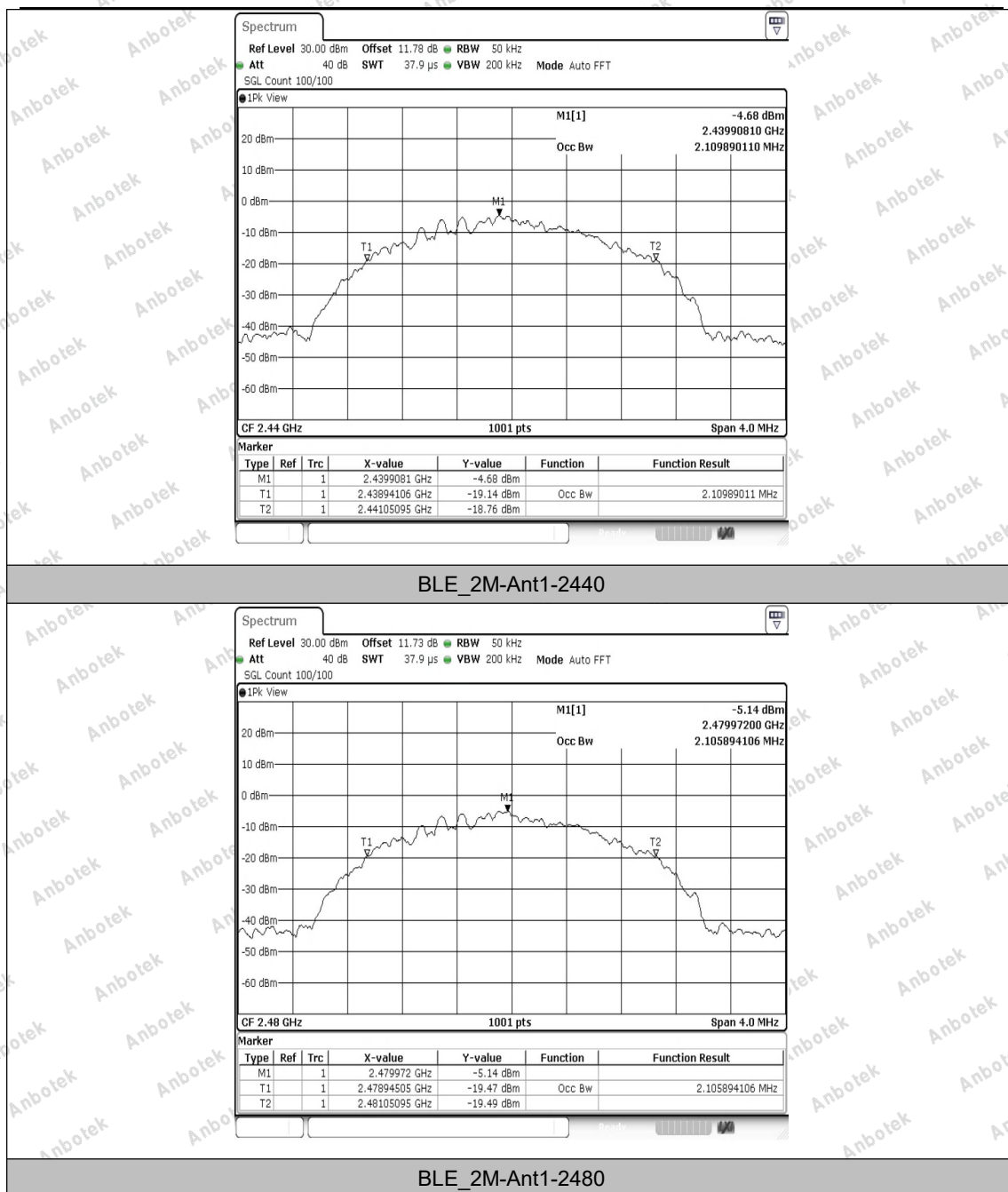
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.075	2401.4486	2402.5235	---	---
BLE_1M	Ant1	2440	1.079	2439.4446	2440.5235	---	---
BLE_1M	Ant1	2480	1.083	2479.4406	2480.5235	---	---
BLE_2M	Ant1	2402	2.118	2400.9371	2403.0549	---	---
BLE_2M	Ant1	2440	2.110	2438.9411	2441.0509	---	---
BLE_2M	Ant1	2480	2.106	2478.9451	2481.0509	---	---



Test Graphs





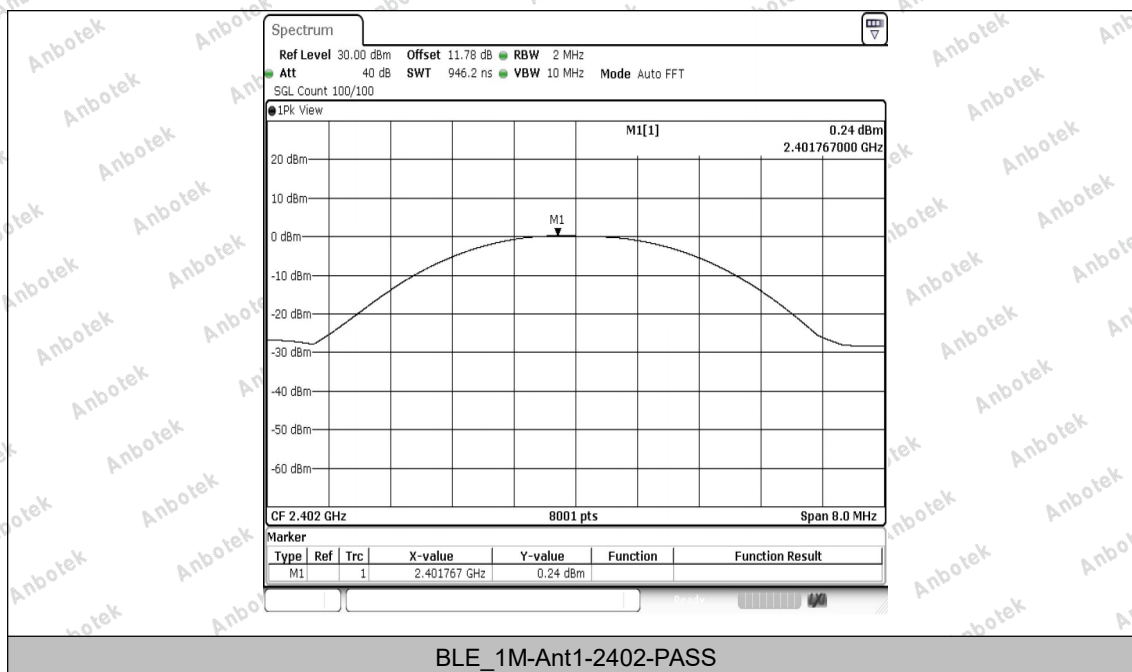


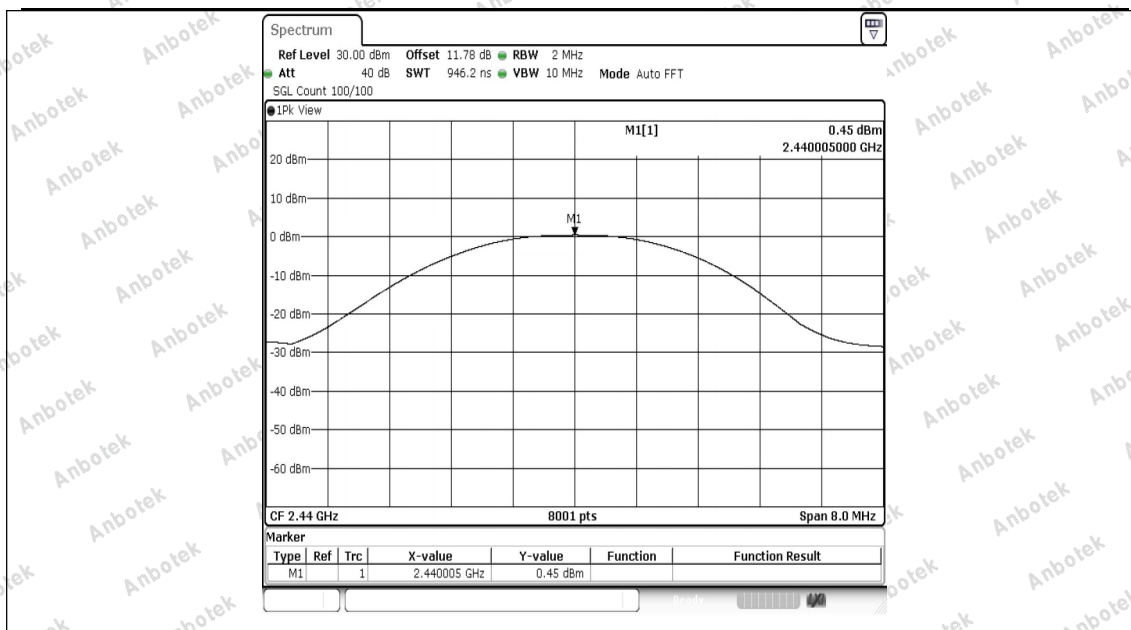
Appendix C: Maximum conducted output power

Test Result Peak

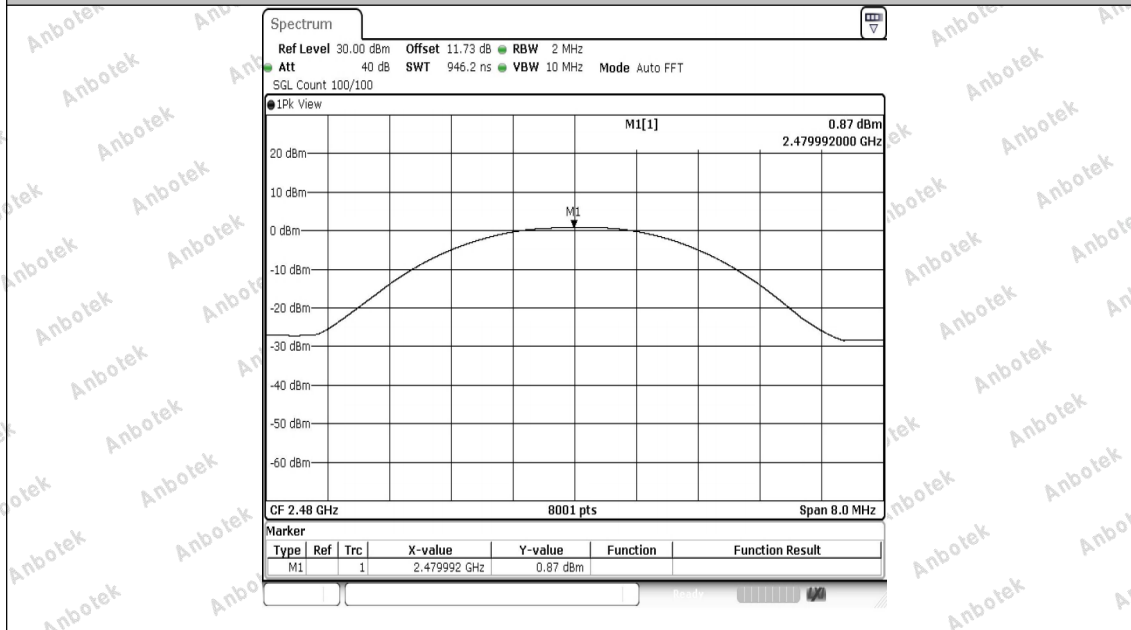
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.24	≤30	PASS
BLE_1M	Ant1	2440	0.45	≤30	PASS
BLE_1M	Ant1	2480	0.87	≤30	PASS
BLE_2M	Ant1	2402	0.07	≤30	PASS
BLE_2M	Ant1	2440	0.22	≤30	PASS
BLE_2M	Ant1	2480	0.73	≤30	PASS

Test Graphs Peak



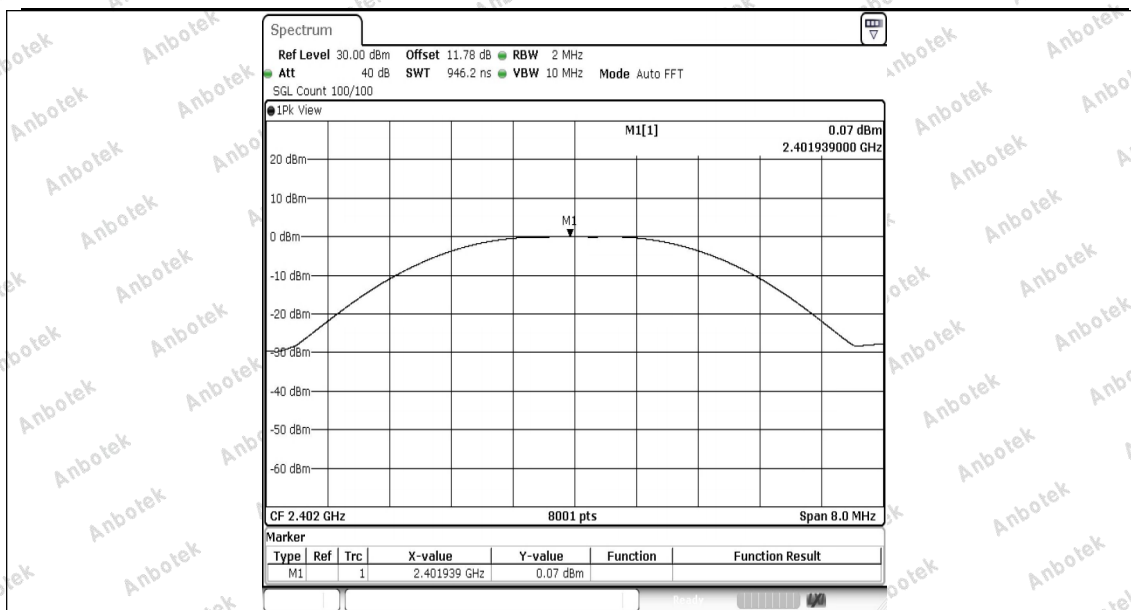


BLE_1M-Ant1-2440-PASS

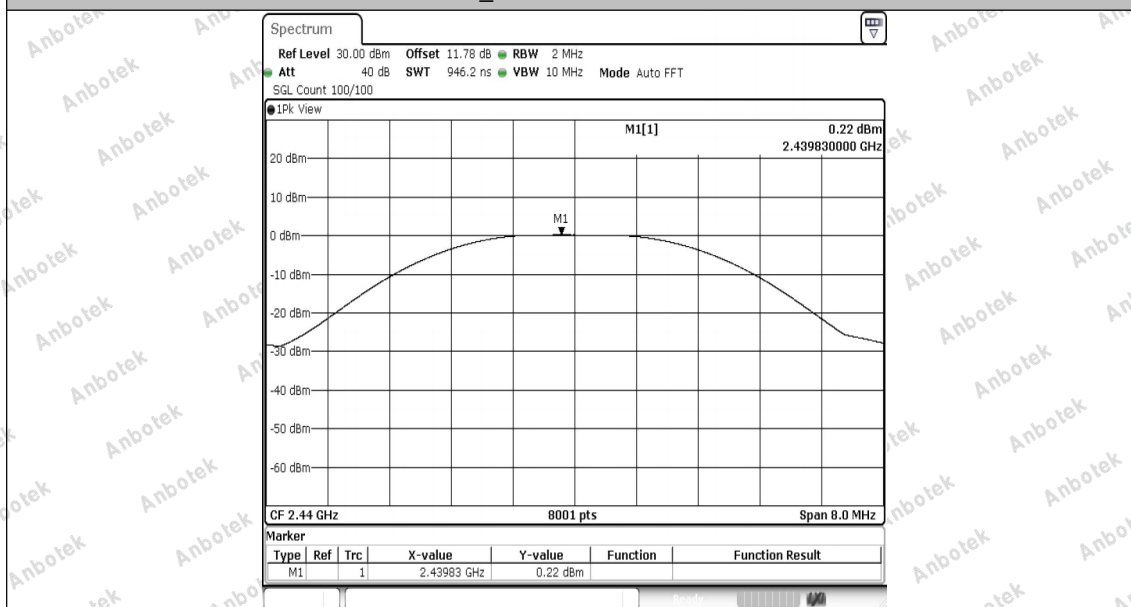


BLE_1M-Ant1-2480-PASS



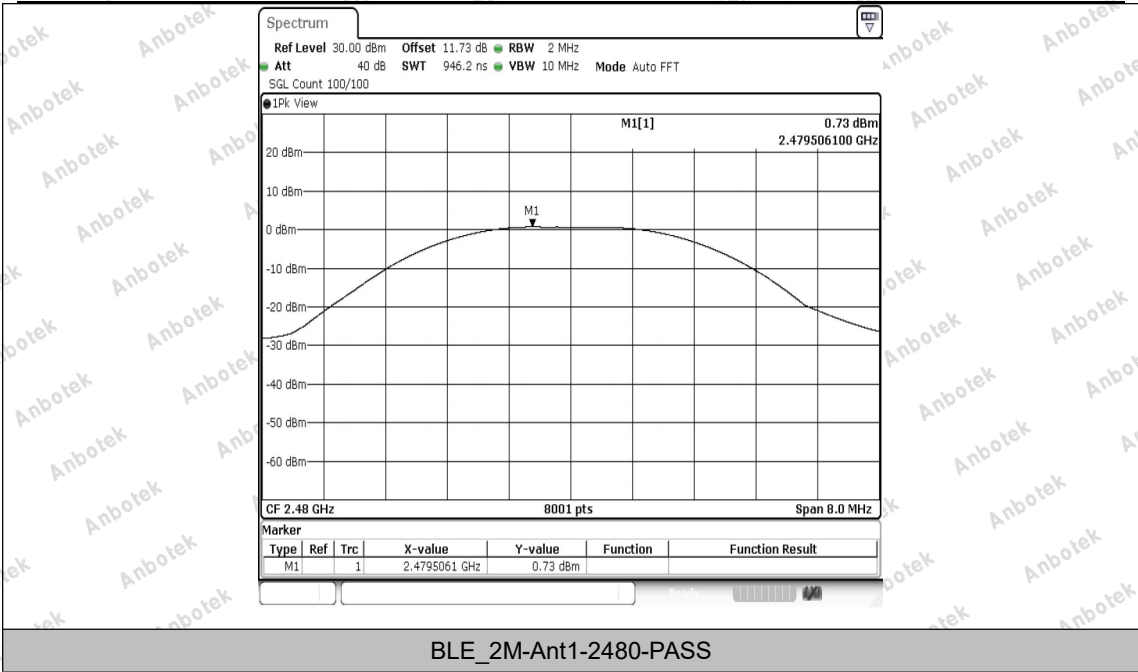


BLE_2M-Ant1-2402-PASS



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	-16.59	≤8.00	PASS
BLE_1M	Ant1	2440	-15.87	≤8.00	PASS
BLE_1M	Ant1	2480	-16.29	≤8.00	PASS
BLE_2M	Ant1	2402	-21.27	≤8.00	PASS
BLE_2M	Ant1	2440	-20.73	≤8.00	PASS
BLE_2M	Ant1	2480	-21.19	≤8.00	PASS



Test Graphs







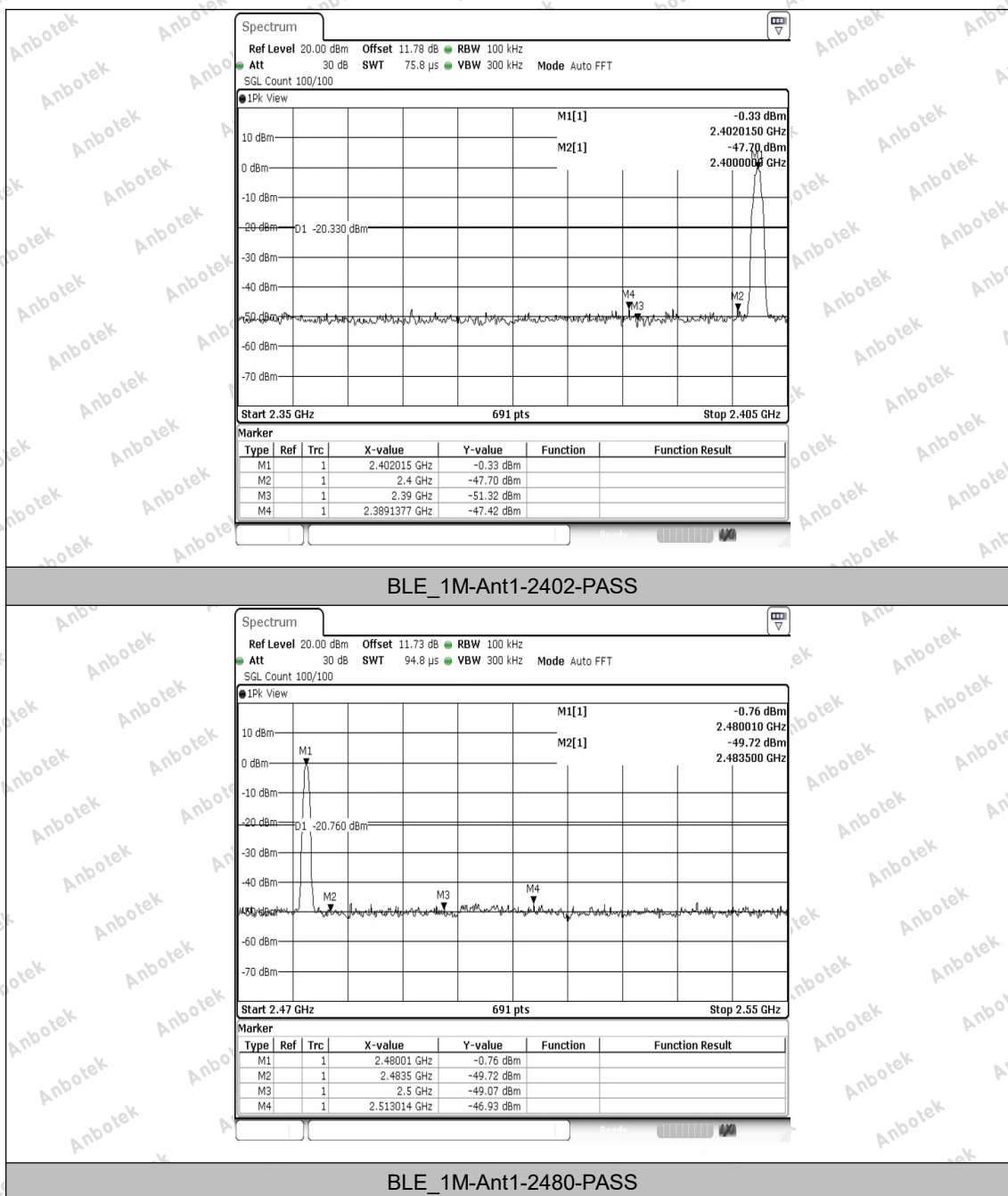
Appendix E: Band edge measurements

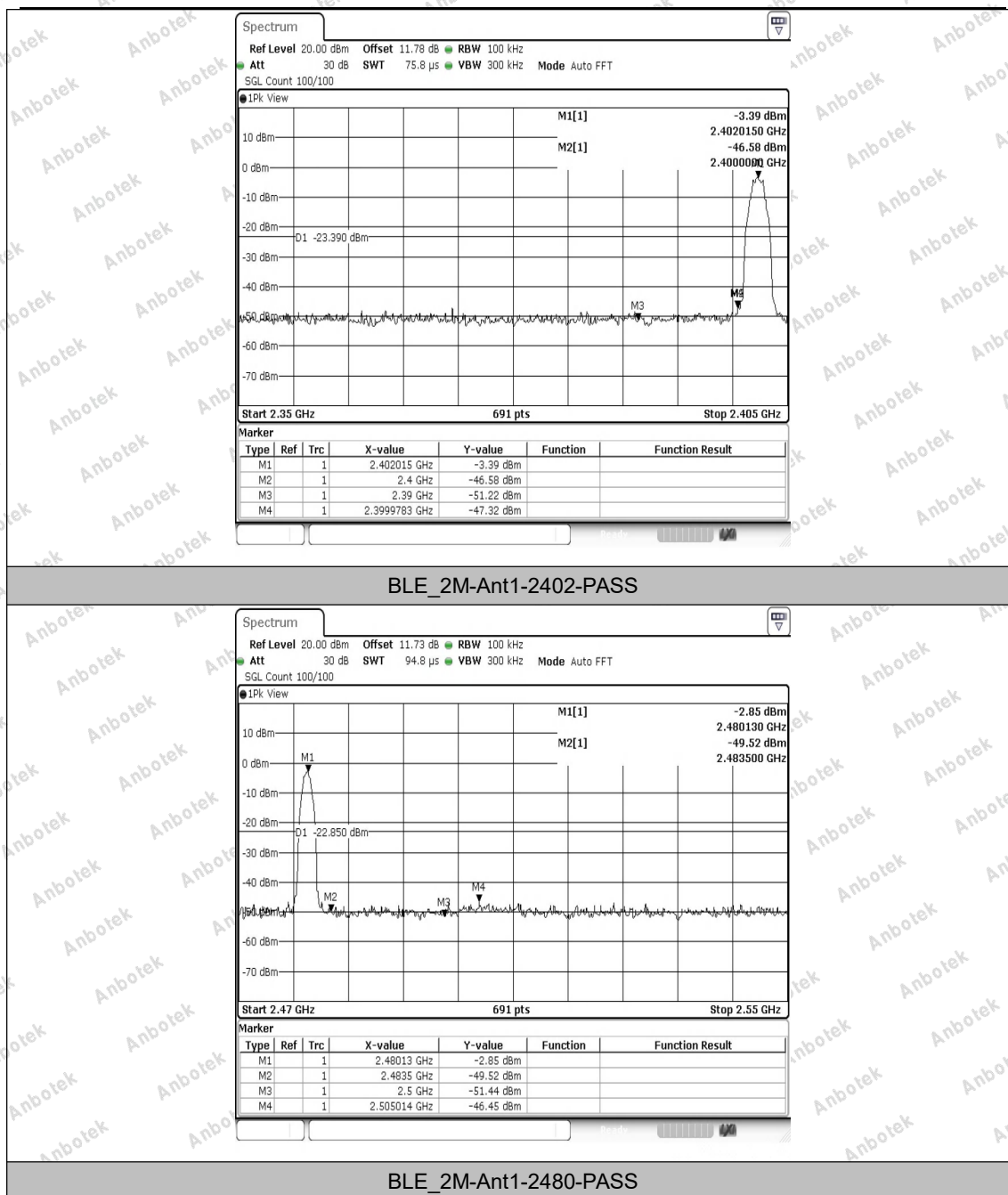
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.33	-47.42	≤-20.33	PASS
BLE_1M	Ant1	High	2480	-0.76	-46.93	≤-20.76	PASS
BLE_2M	Ant1	Low	2402	-3.39	-47.32	≤-23.39	PASS
BLE_2M	Ant1	High	2480	-2.85	-46.45	≤-22.85	PASS



Test Graphs





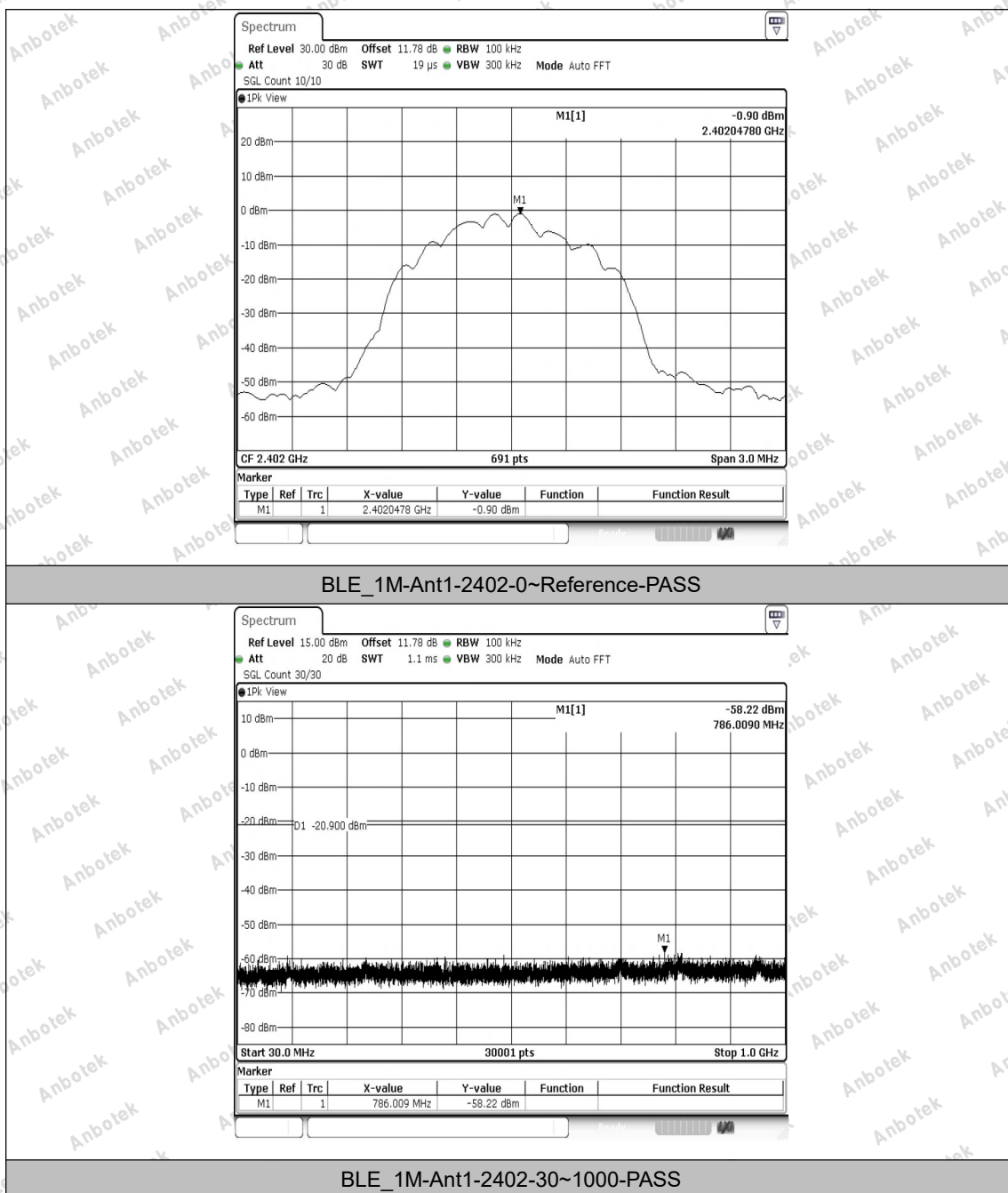
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.90	-0.90	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.90	-58.22	≤-20.9	PASS
BLE_1M	Ant1	2402	1000~26500	-0.90	-42.87	≤-20.9	PASS
BLE_1M	Ant1	2440	0~Reference	-0.62	-0.62	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.62	-57.48	≤-20.62	PASS
BLE_1M	Ant1	2440	1000~26500	-0.62	-43.76	≤-20.62	PASS
BLE_1M	Ant1	2480	0~Reference	-0.91	-0.91	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.91	-57.67	≤-20.91	PASS
BLE_1M	Ant1	2480	1000~26500	-0.91	-44.21	≤-20.91	PASS
BLE_2M	Ant1	2402	0~Reference	-3.65	-3.65	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.65	-56.93	≤-23.65	PASS
BLE_2M	Ant1	2402	1000~26500	-3.65	-44.41	≤-23.65	PASS
BLE_2M	Ant1	2440	0~Reference	-2.93	-2.93	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.93	-58.28	≤-22.93	PASS
BLE_2M	Ant1	2440	1000~26500	-2.93	-43.76	≤-22.93	PASS
BLE_2M	Ant1	2480	0~Reference	-3.25	-3.25	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.25	-58.3	≤-23.25	PASS
BLE_2M	Ant1	2480	1000~26500	-3.25	-43.7	≤-23.25	PASS

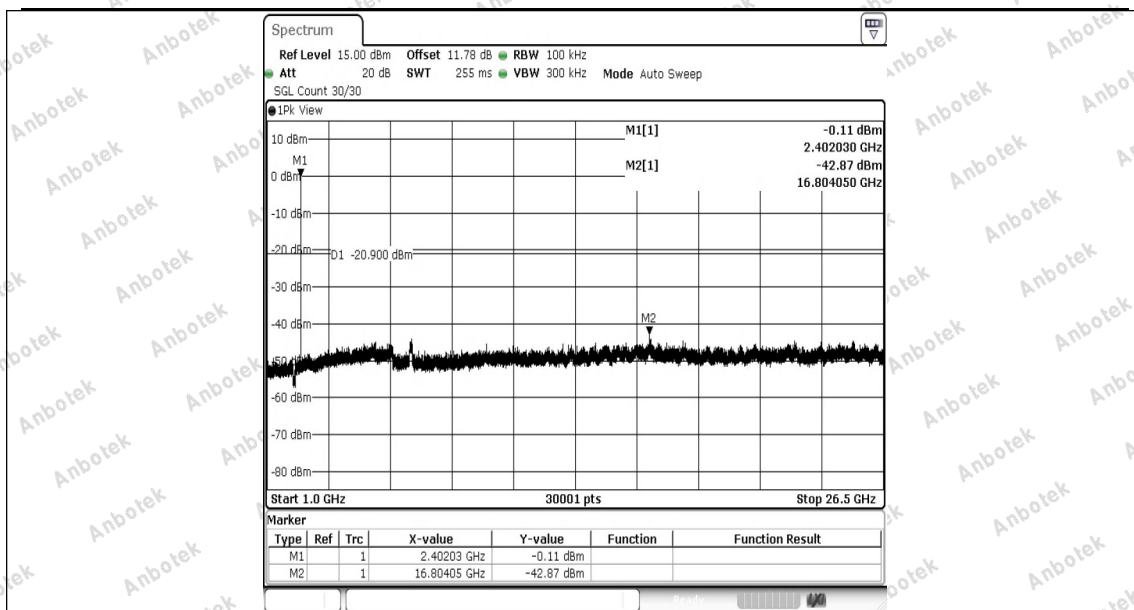


Test Graphs

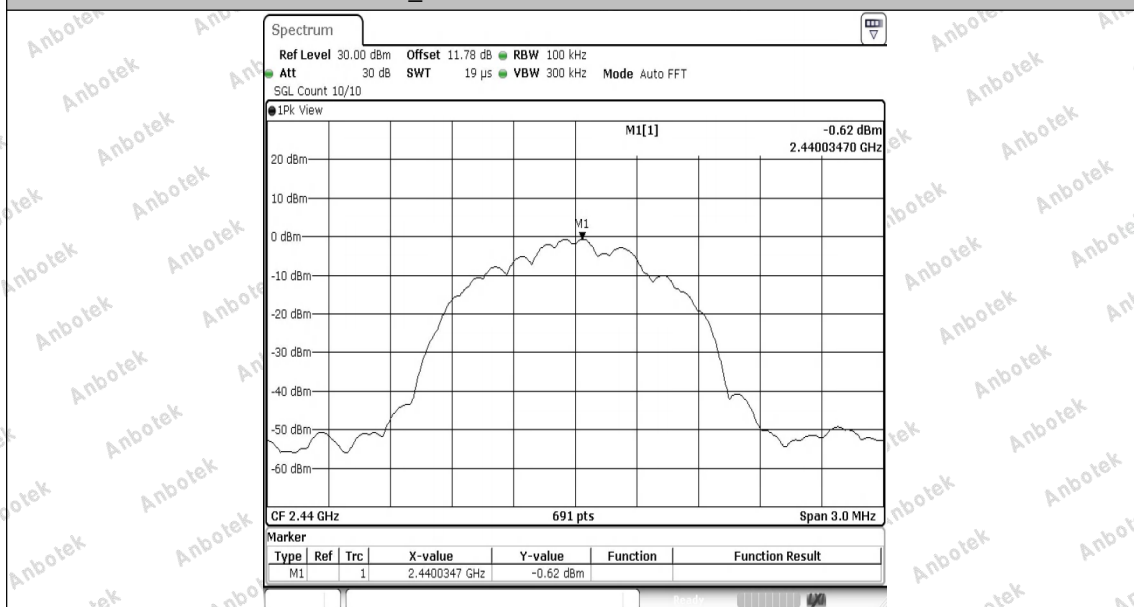


BLE_1M-Ant1-2402-30~1000-PASS



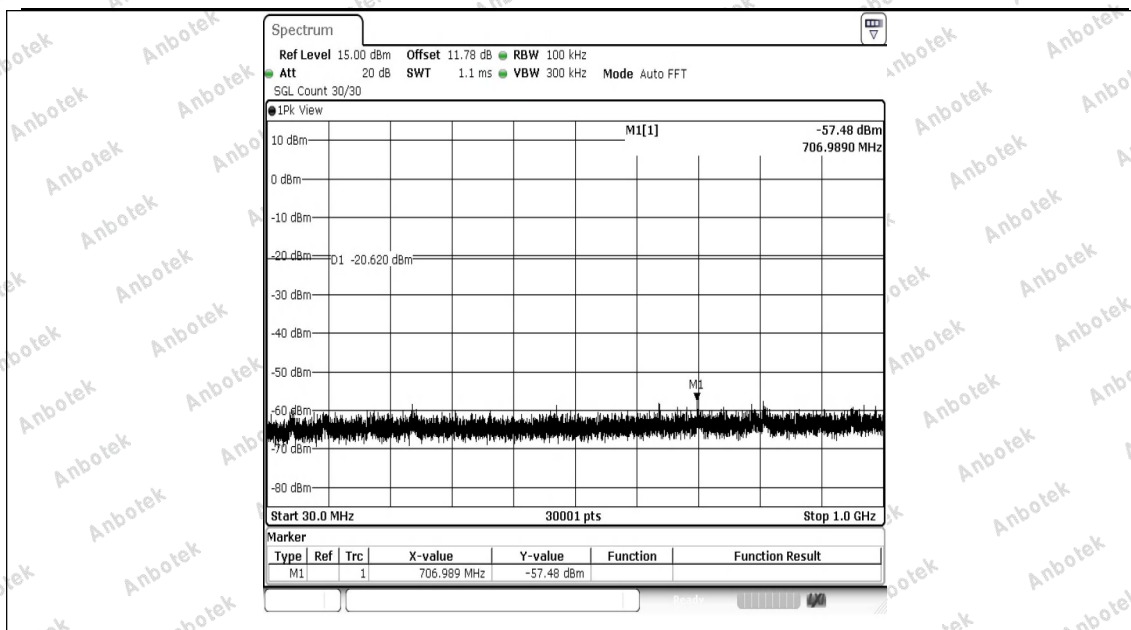


BLE_1M-Ant1-2402-1000~26500-PASS

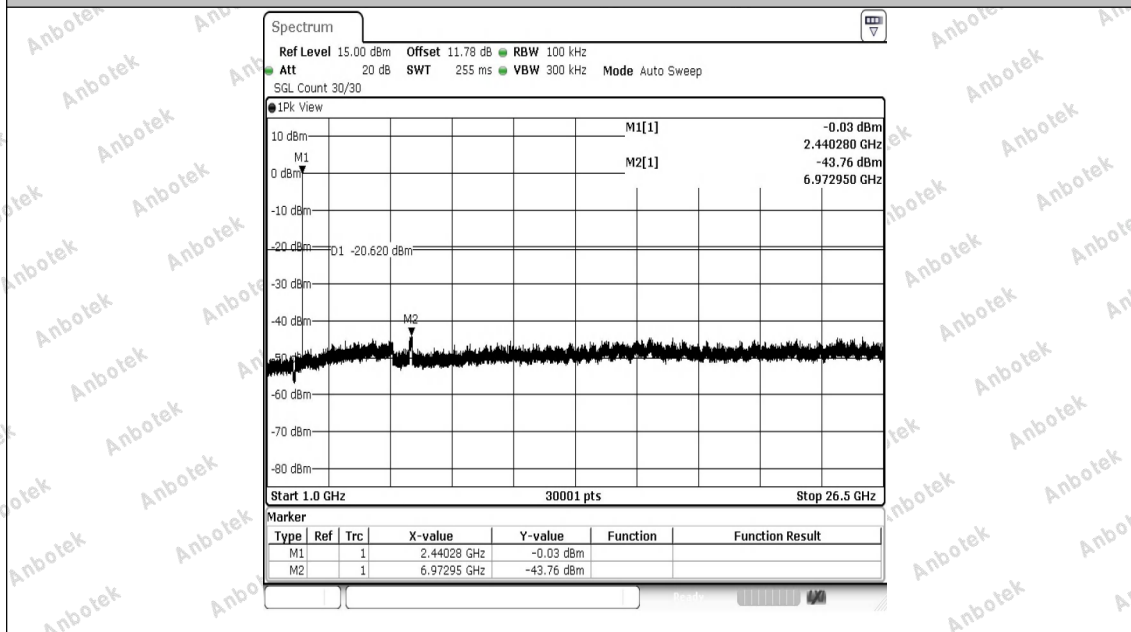


BLE_1M-Ant1-2440-0~Reference-PASS



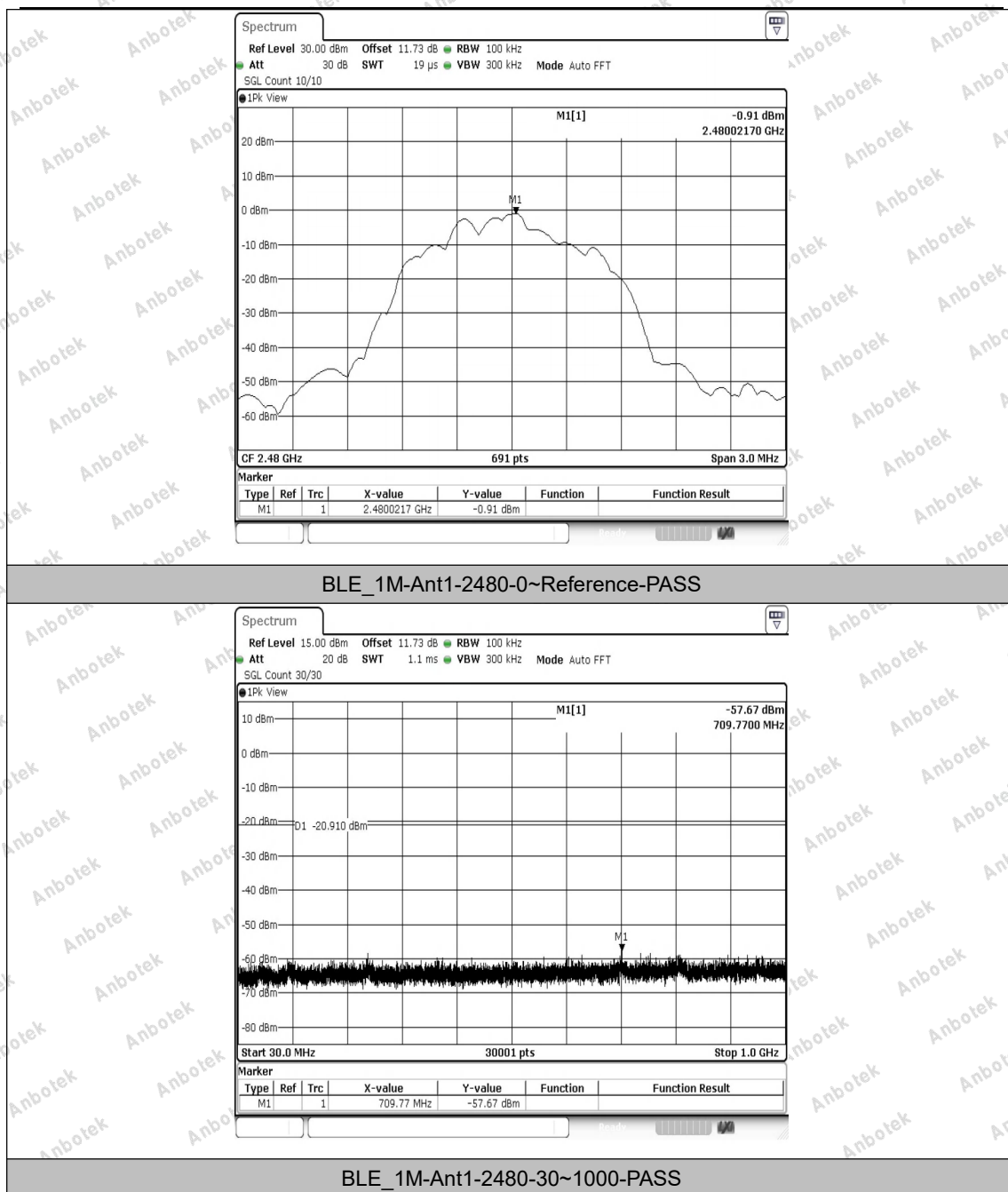


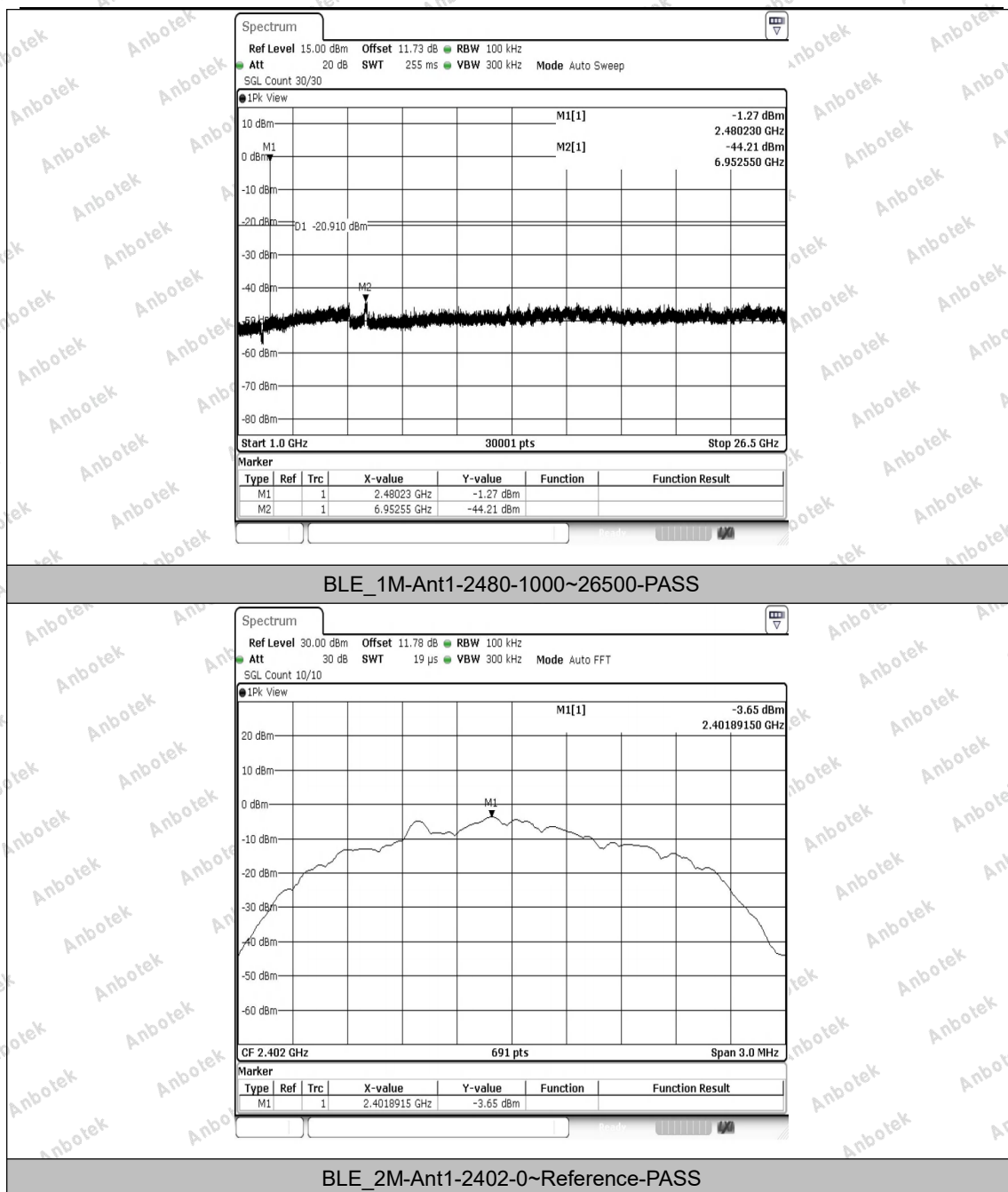
BLE_1M-Ant1-2440-30~1000-PASS

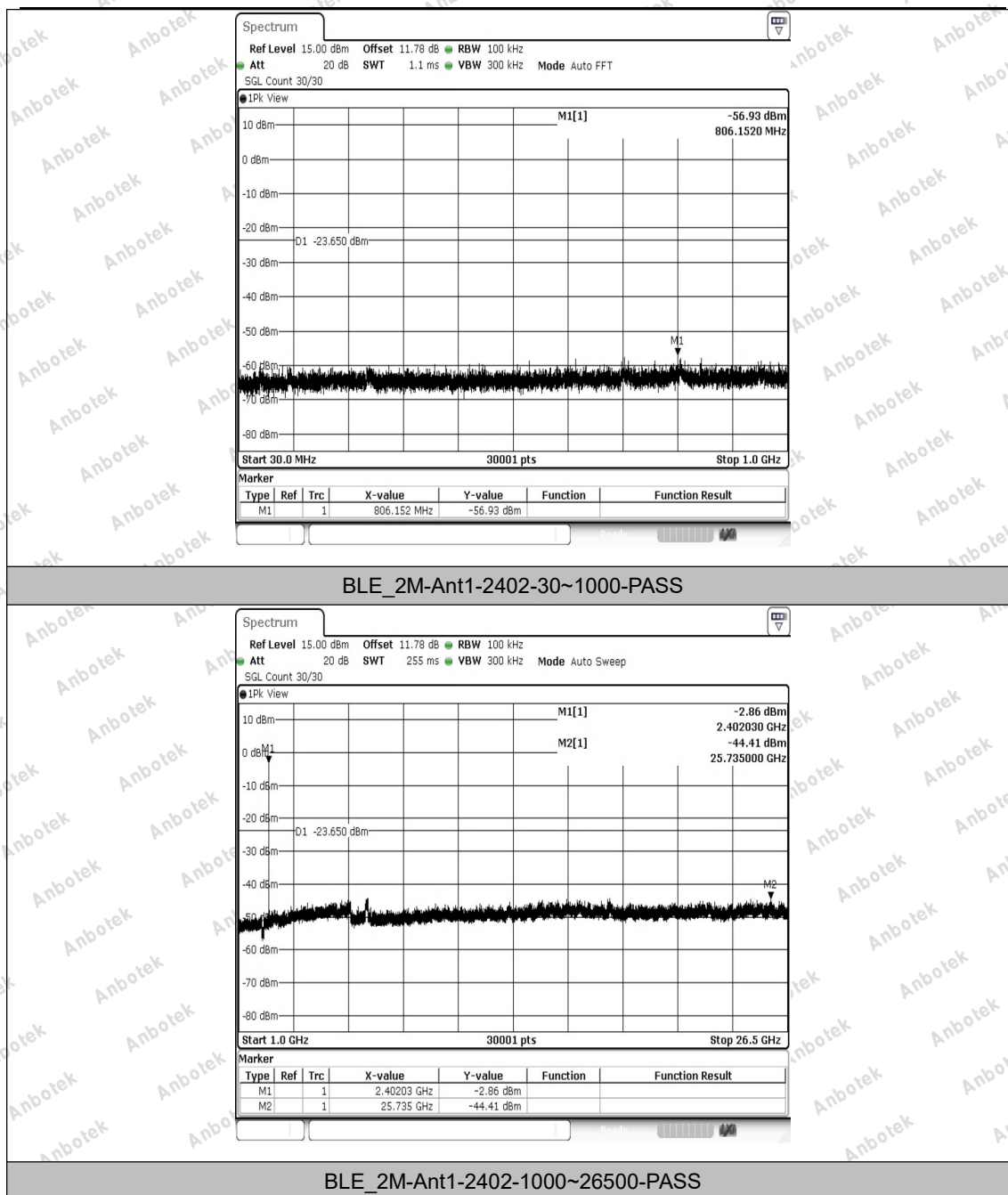


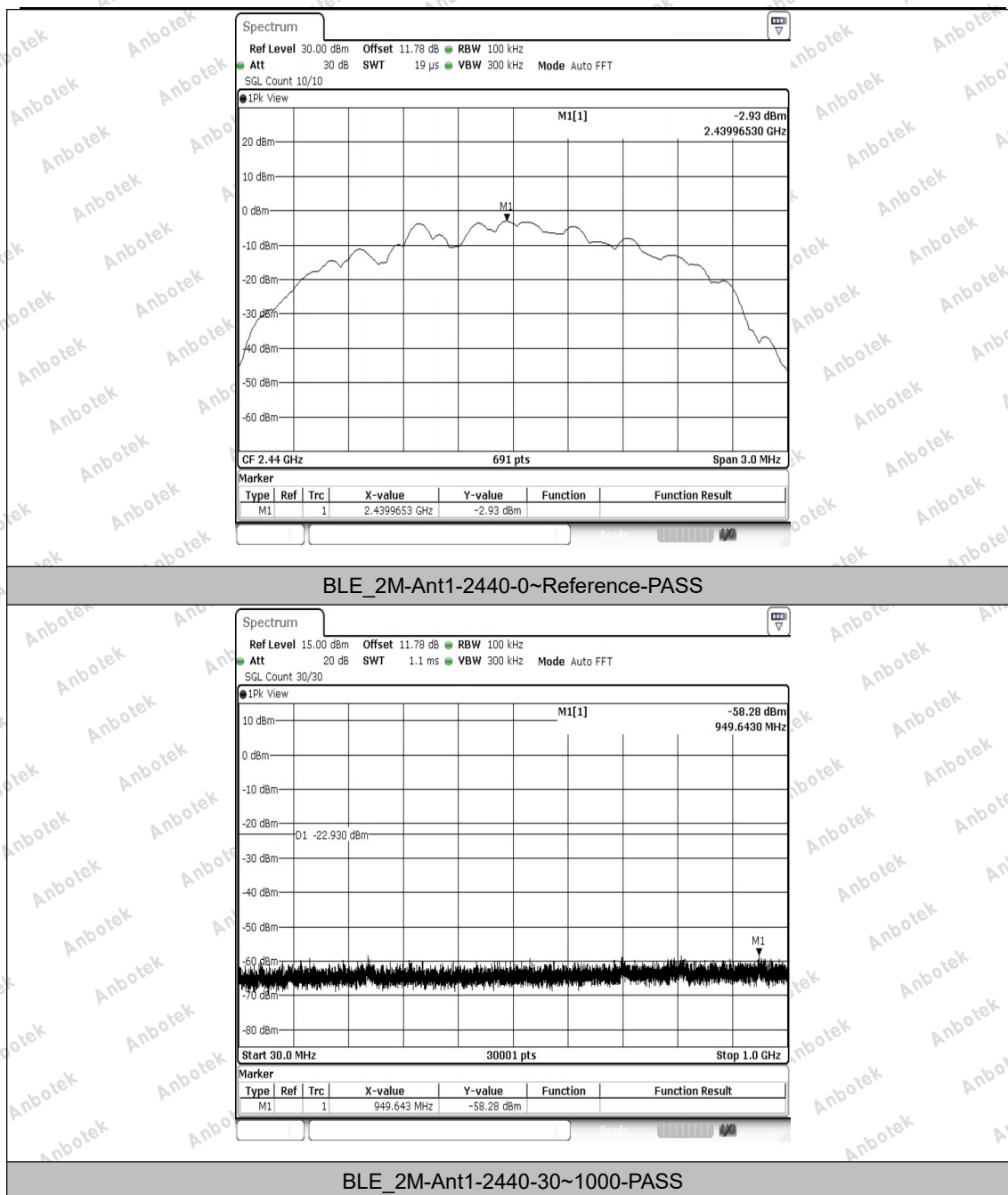
BLE_1M-Ant1-2440-1000~26500-PASS

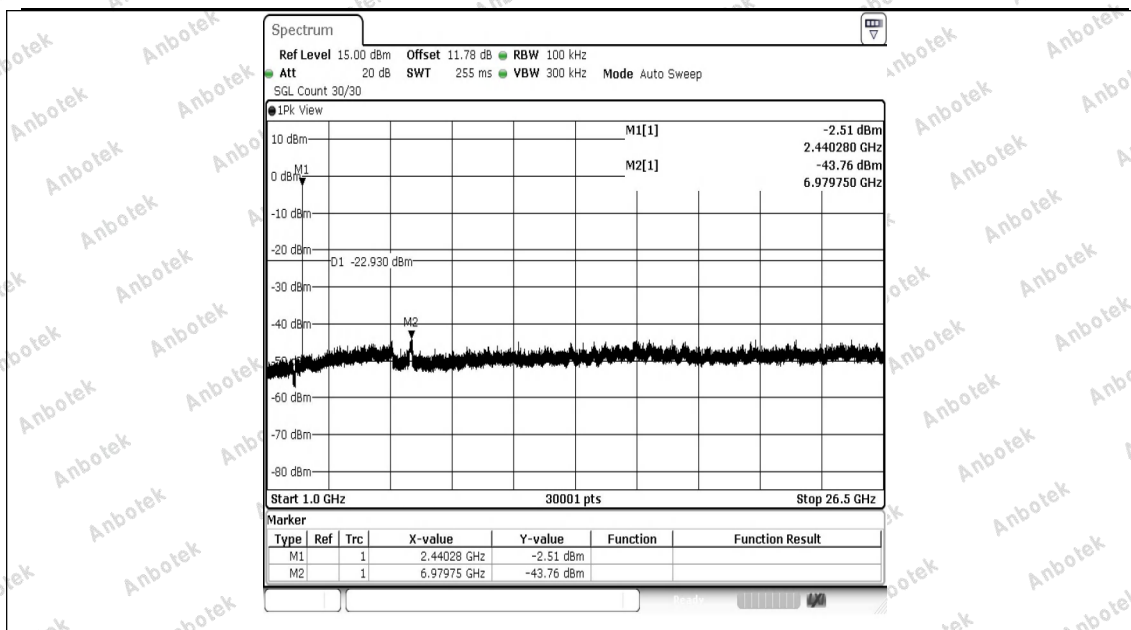




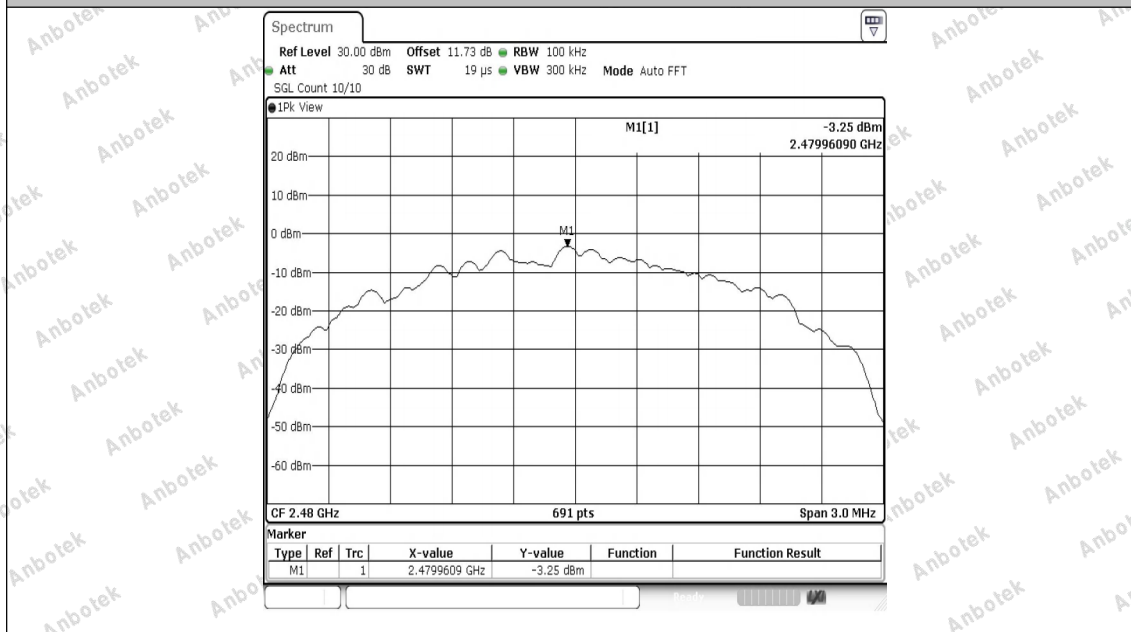






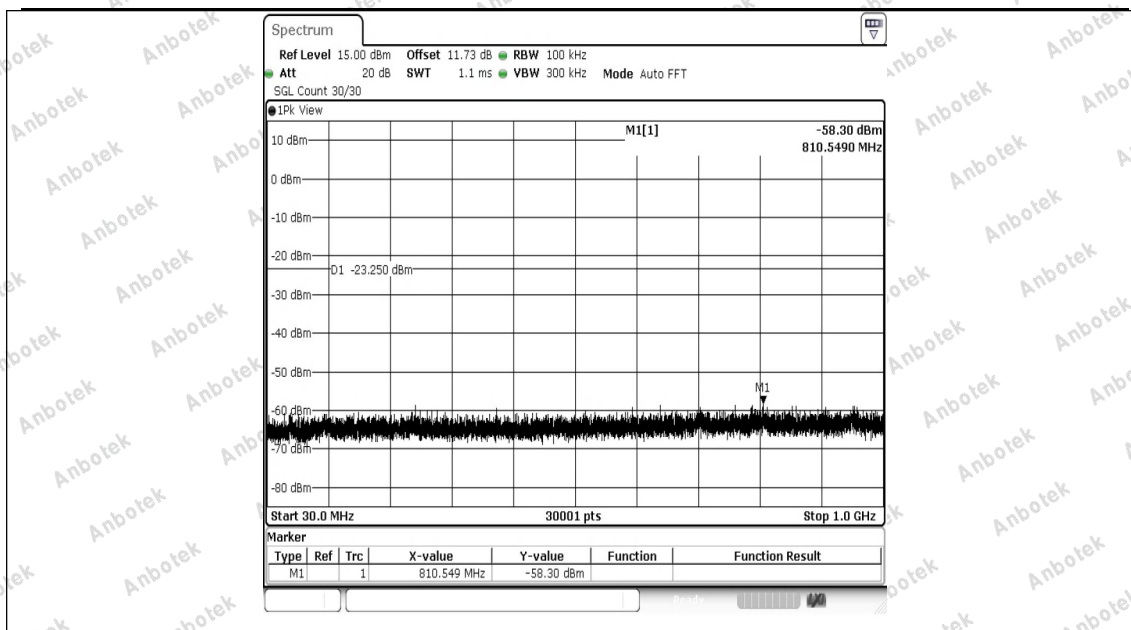


BLE_2M-Ant1-2440-1000~26500-PASS

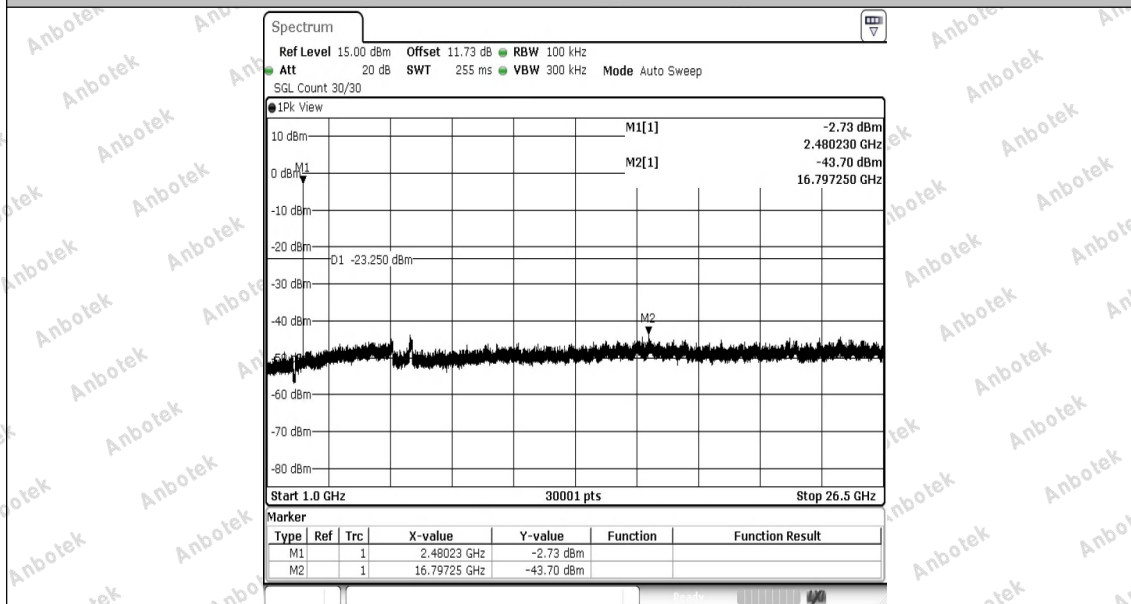


BLE_2M-Ant1-2480-0~Reference-PASS





BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



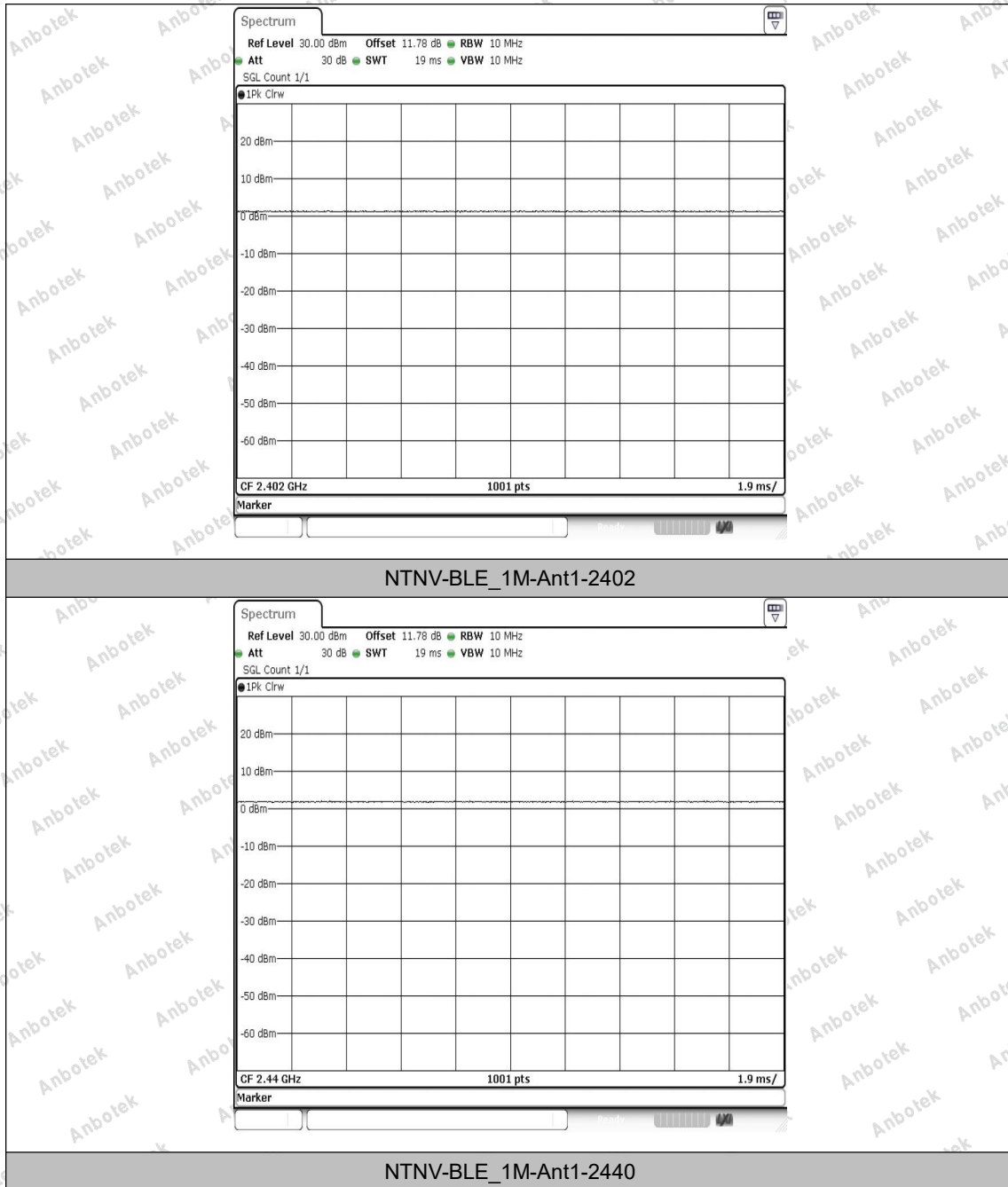
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.9	1.9	100	0
BLE_1M	Ant1	2440	1.9	1.9	100	0
BLE_1M	Ant1	2480	1.9	1.9	100	0
BLE_2M	Ant1	2402	1.9	1.9	100	0
BLE_2M	Ant1	2440	1.9	1.9	100	0
BLE_2M	Ant1	2480	1.9	1.9	100	0



Test Graphs



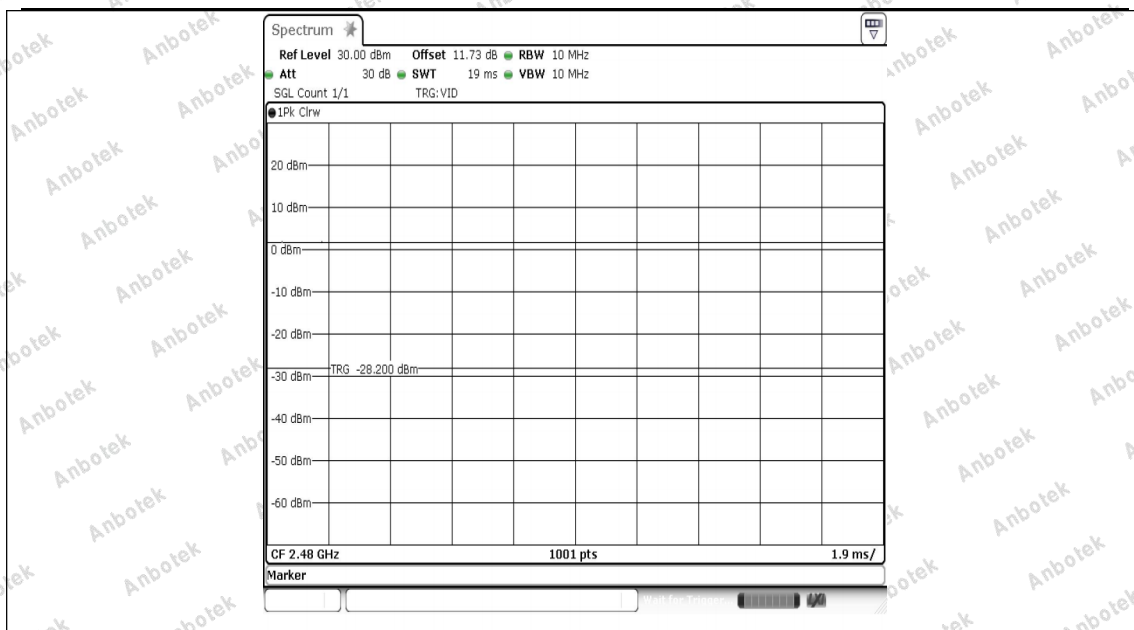
Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hahgcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Email: service@anbotek.com

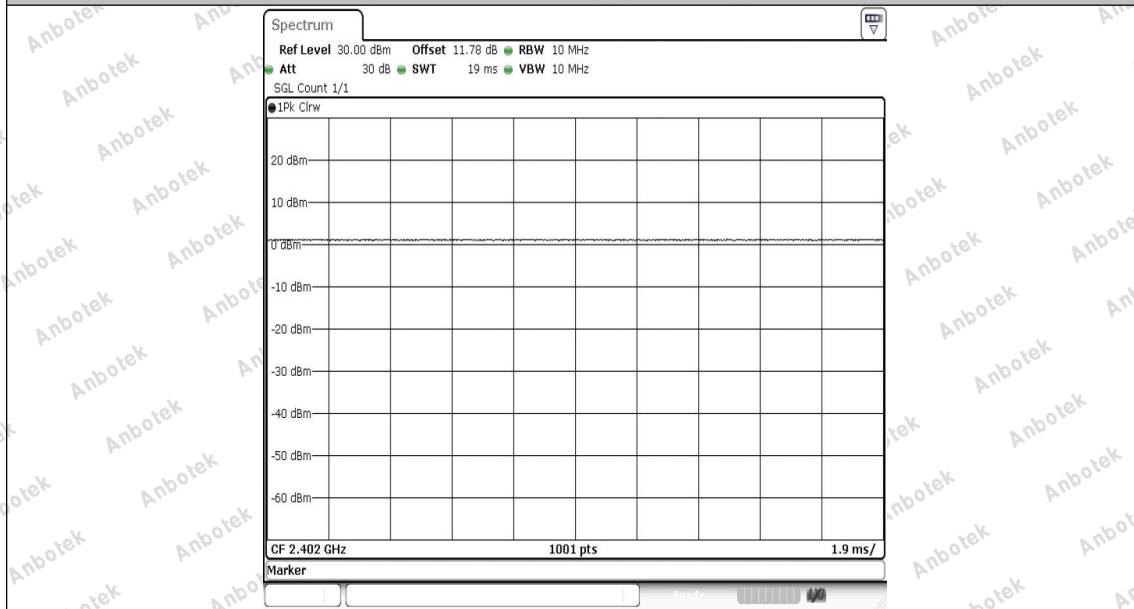


Hotline
400-003-0500
www.anbotek.com



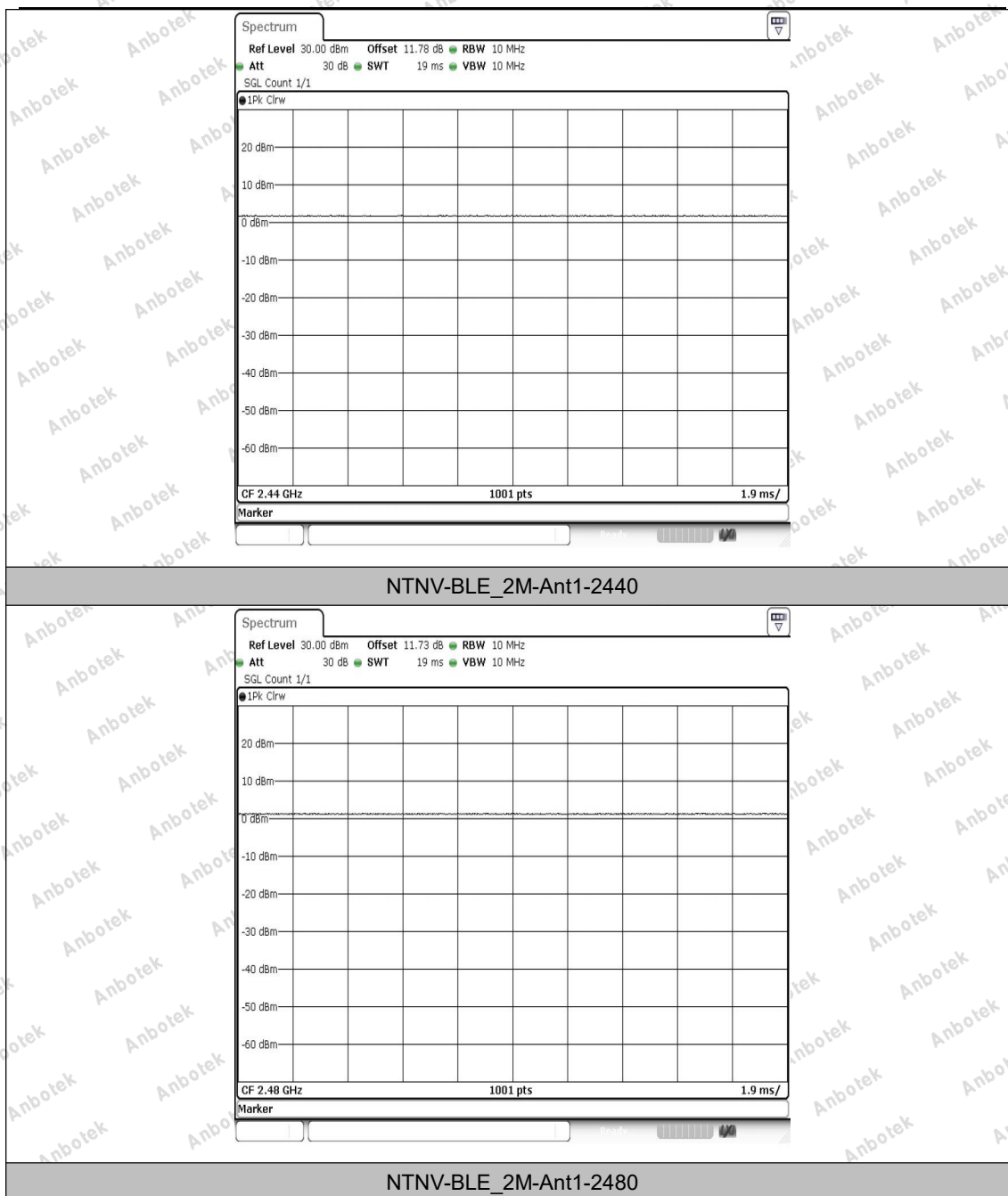


NTNV-BLE_1M-Ant1-2480



NTNV-BLE_2M-Ant1-2402





---END---

