Appendix Test Data

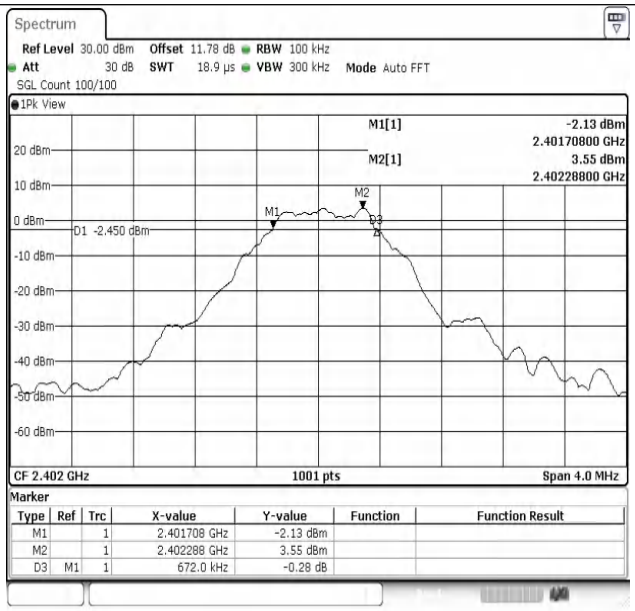
Report No.:	1812C40152912502	Test Sample No.:	1-2-2
Start Test Date:	2024.11.26	Finish Test Date:	2024.11.27
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	22.7℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

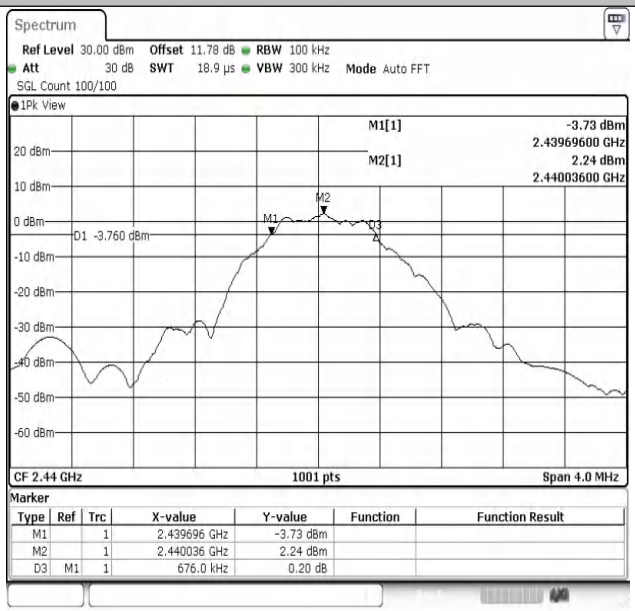
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.71	2402.38	0.5	PASS
BLE_1M	Ant1	2440	0.68	2439.70	2440.37	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.73	2480.39	0.5	PASS
BLE_2M	Ant1	2402	1.29	2401.37	2402.66	0.5	PASS
BLE_2M	Ant1	2440	0.96	2439.48	2440.44	0.5	PASS
BLE_2M	Ant1	2480	1.14	2479.49	2480.63	0.5	PASS

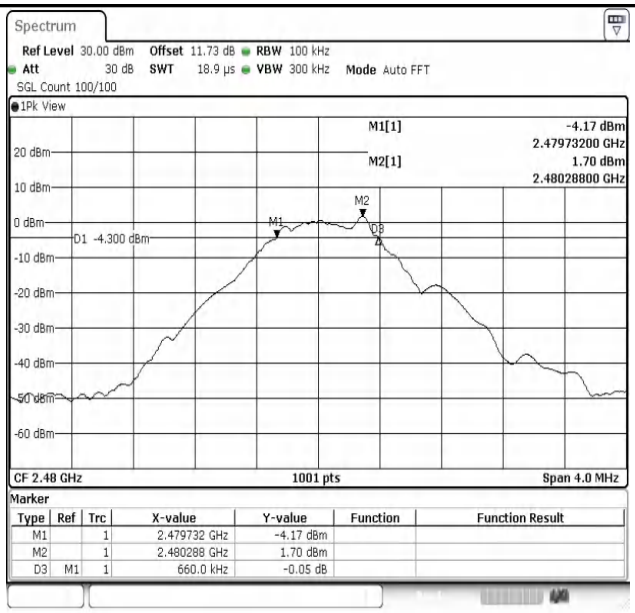
Test Graphs



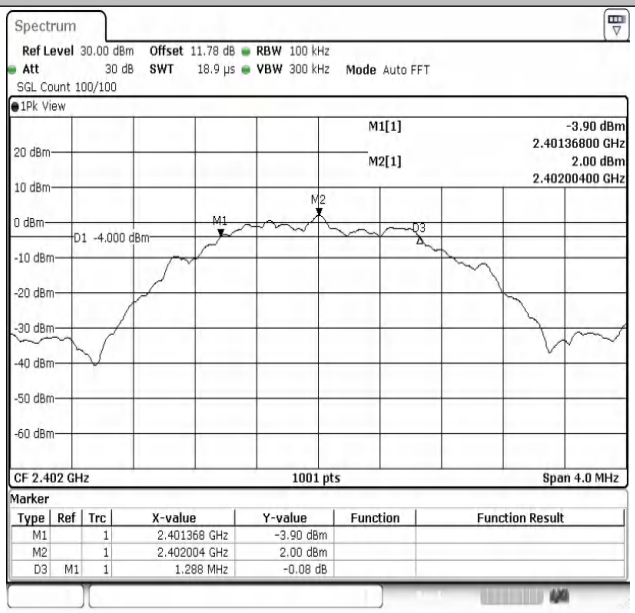
BLE_1M-Ant1-2402-PASS



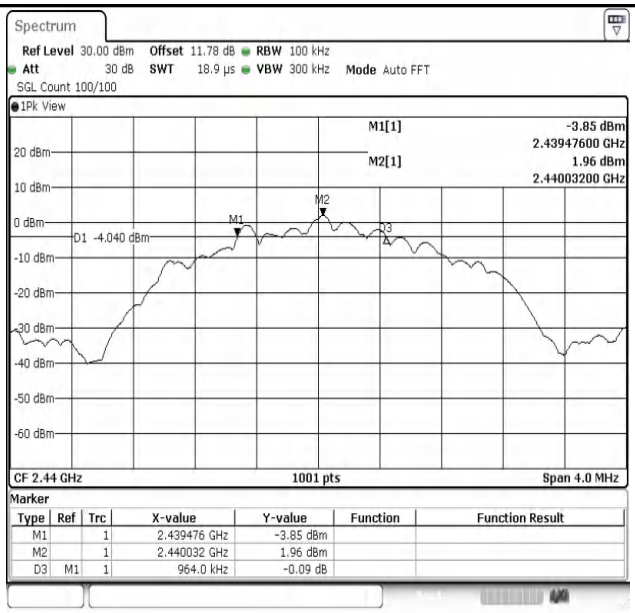
BLE_1M-Ant1-2440-PASS



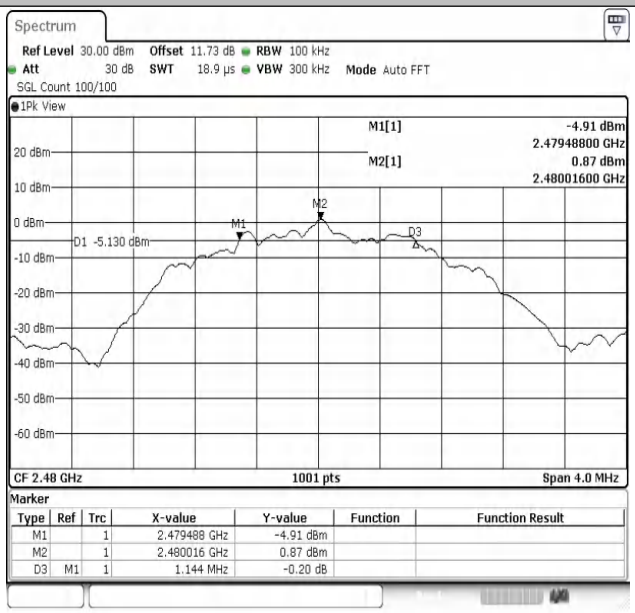
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



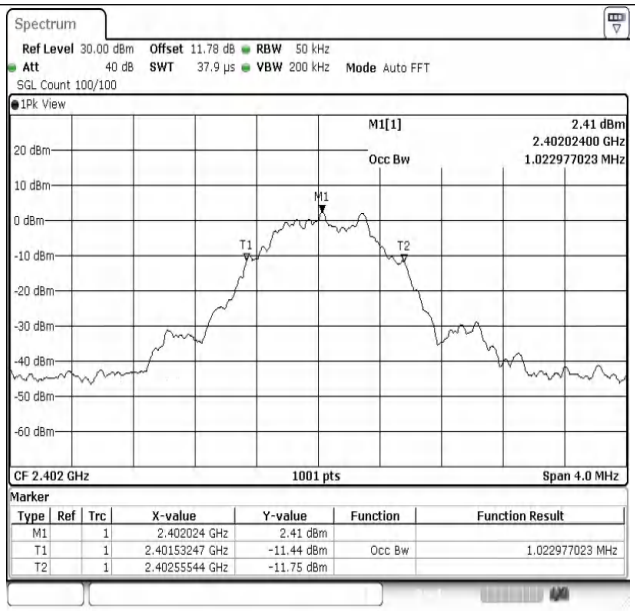
BLE_2M-Ant1-2480-PASS

Appendix B: 99% Occupied Bandwidth

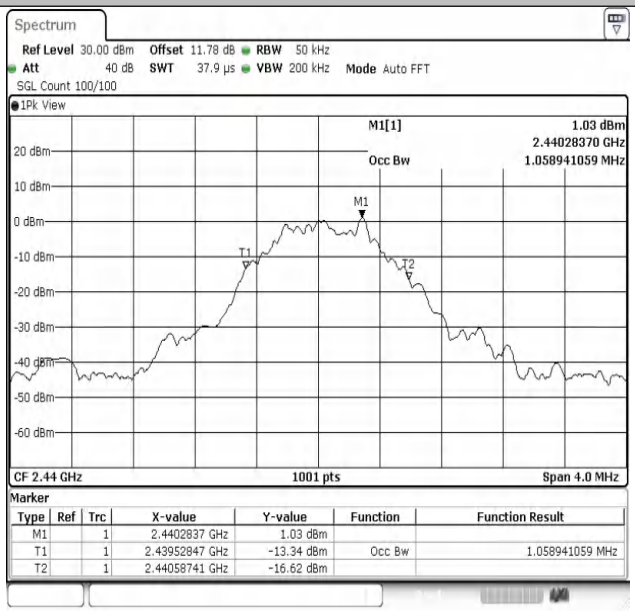
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.023	2401.5325	2402.5554	---	---
BLE_1M	Ant1	2440	1.059	2439.5285	2440.5874	---	---
BLE_1M	Ant1	2480	1.151	2479.4446	2480.5954	---	---
BLE_2M	Ant1	2402	2.05	2401.0210	2403.0709	---	---
BLE_2M	Ant1	2440	2.054	2439.0370	2441.0909	---	---
BLE_2M	Ant1	2480	2.066	2479.0210	2481.0869	---	---

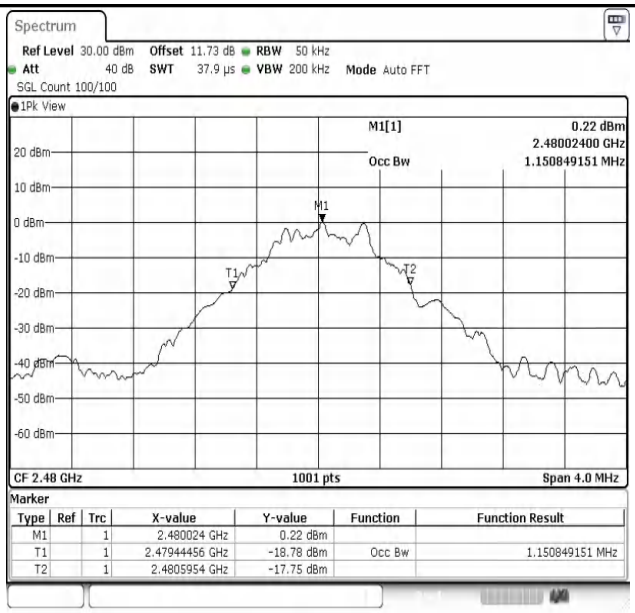
Test Graphs



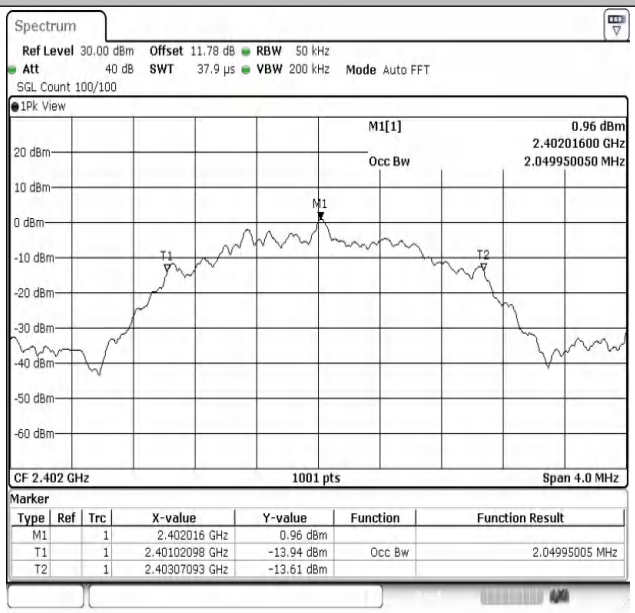
BLE_1M-Ant1-2402



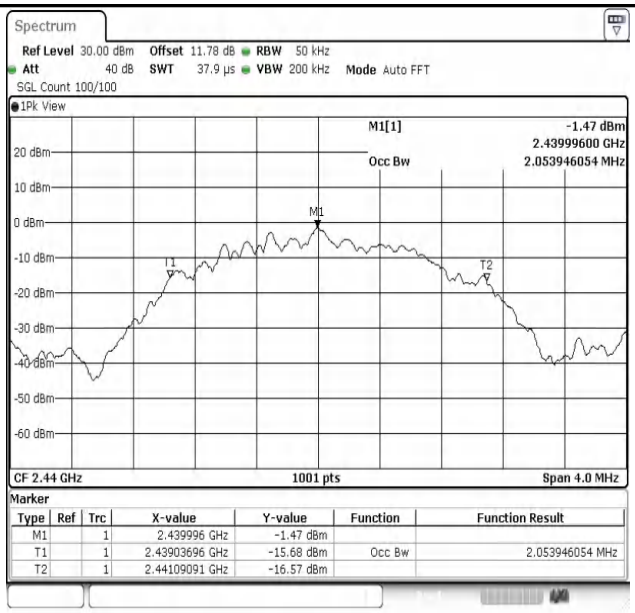
BLE_1M-Ant1-2440



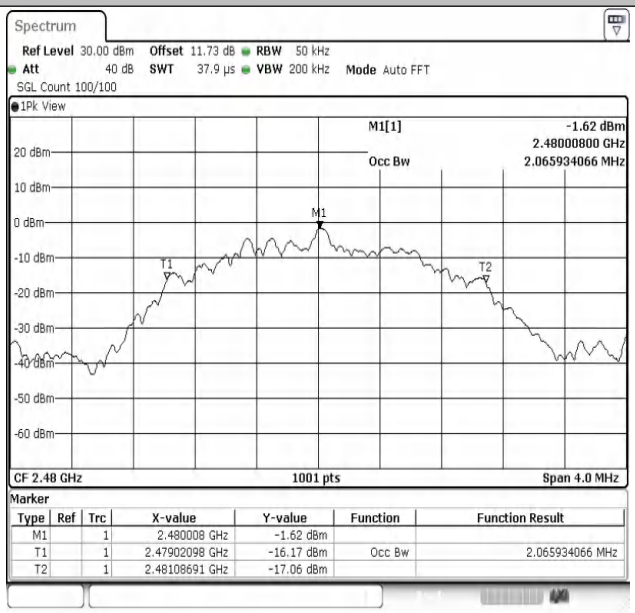
BLE_1M-Ant1-2480



BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



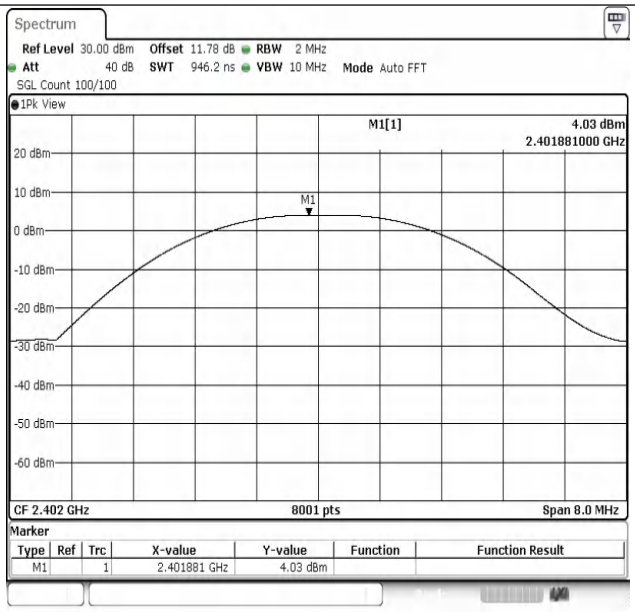
BLE_2M-Ant1-2480

Appendix C: Maximum conducted output power

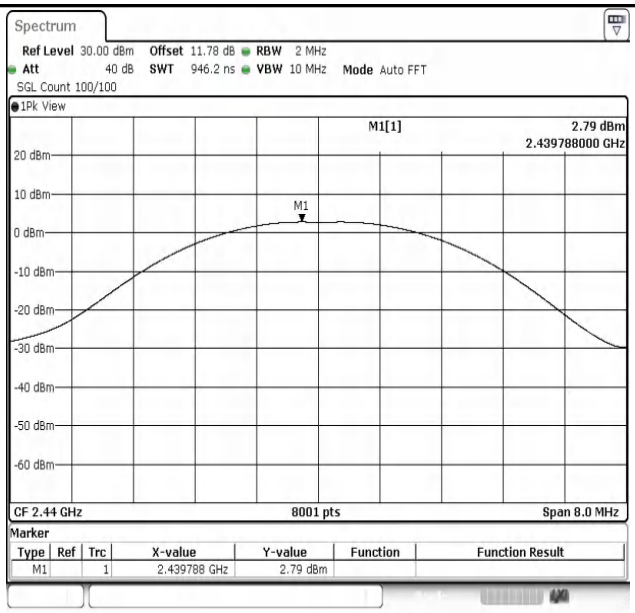
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.03	≤30	PASS
BLE_1M	Ant1	2440	2.79	≤30	PASS
BLE_1M	Ant1	2480	2.01	≤30	PASS
BLE_2M	Ant1	2402	4.07	≤30	PASS
BLE_2M	Ant1	2440	2.87	≤30	PASS
BLE_2M	Ant1	2480	2.03	≤30	PASS

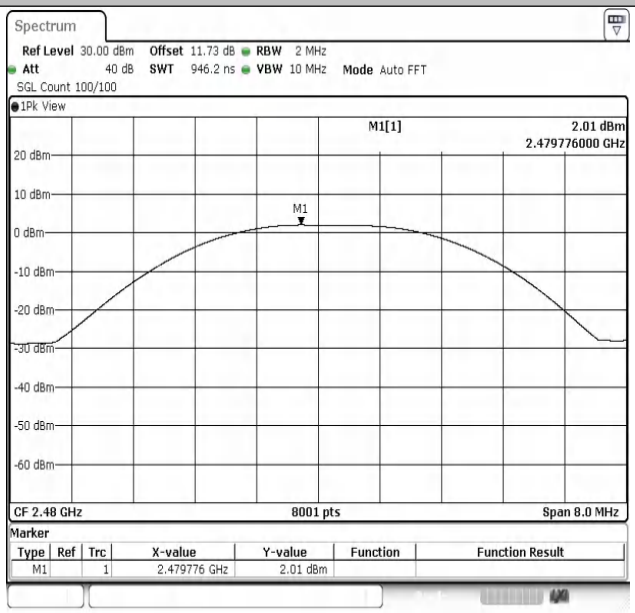
Test Graphs Peak



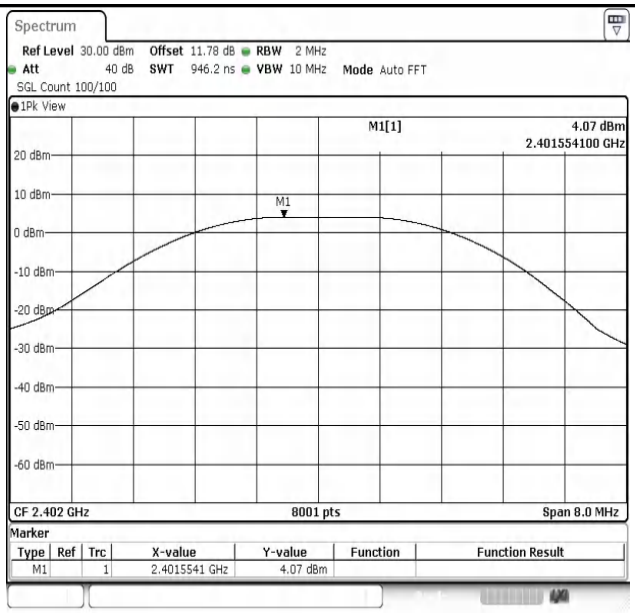
BLE_1M-Ant1-2402-PASS



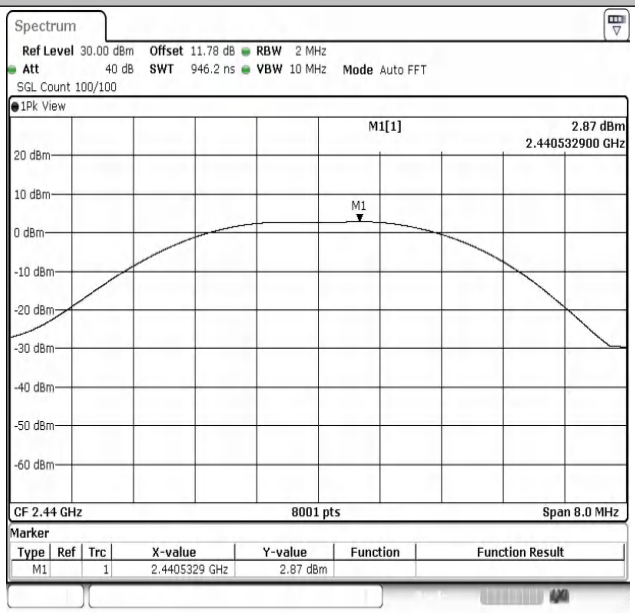
BLE_1M-Ant1-2440-PASS



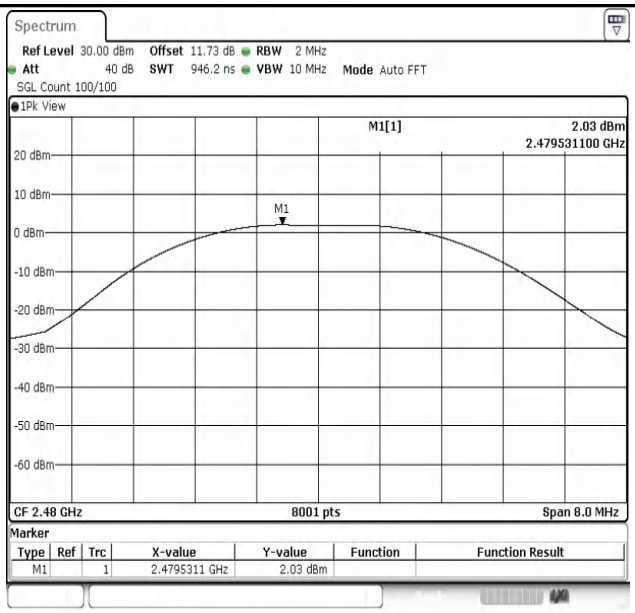
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



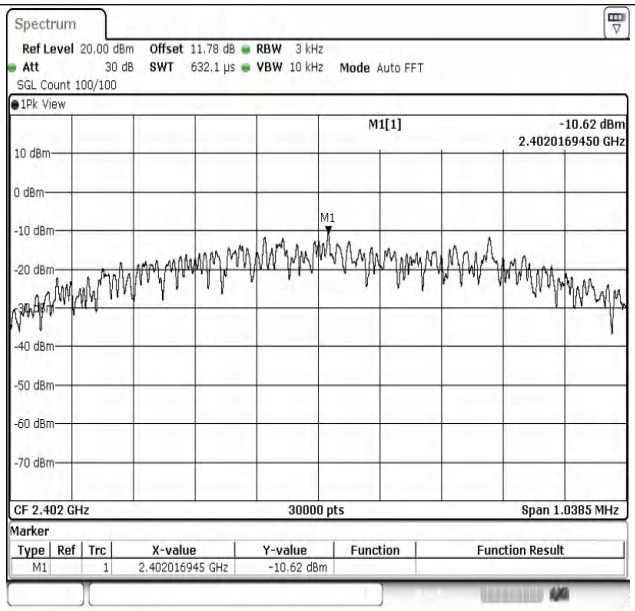
BLE_2M-Ant1-2480-PASS

Appendix D: Maximum power spectral density

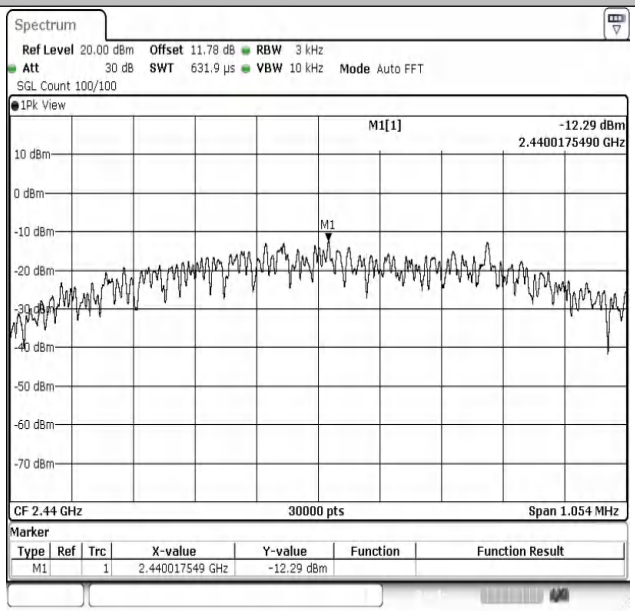
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.62	≤8.00	PASS
BLE_1M	Ant1	2440	-12.29	≤8.00	PASS
BLE_1M	Ant1	2480	-13.02	≤8.00	PASS
BLE_2M	Ant1	2402	-13.23	≤8.00	PASS
BLE_2M	Ant1	2440	-14.53	≤8.00	PASS
BLE_2M	Ant1	2480	-15.75	≤8.00	PASS

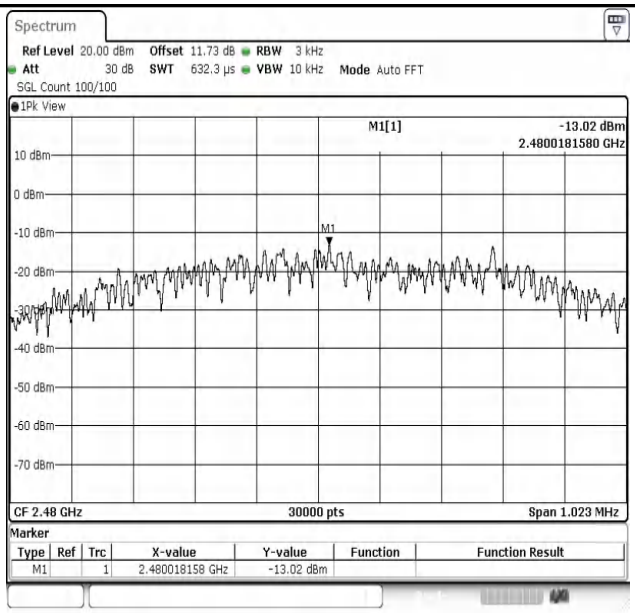
Test Graphs



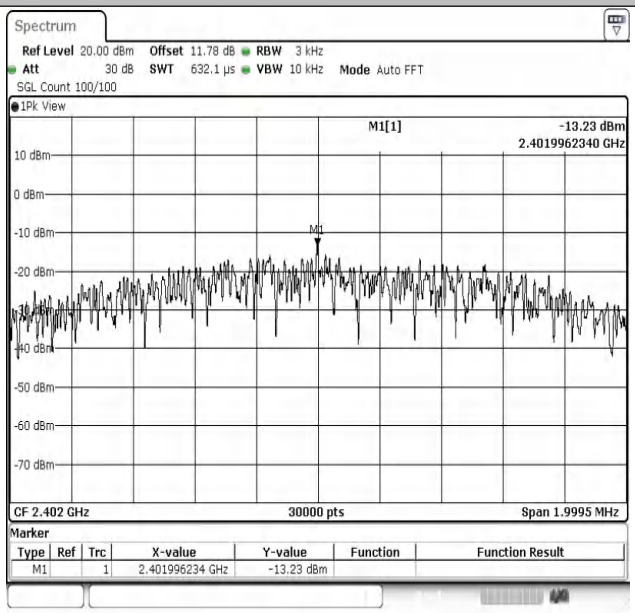
BLE_1M-Ant1-2402-PASS



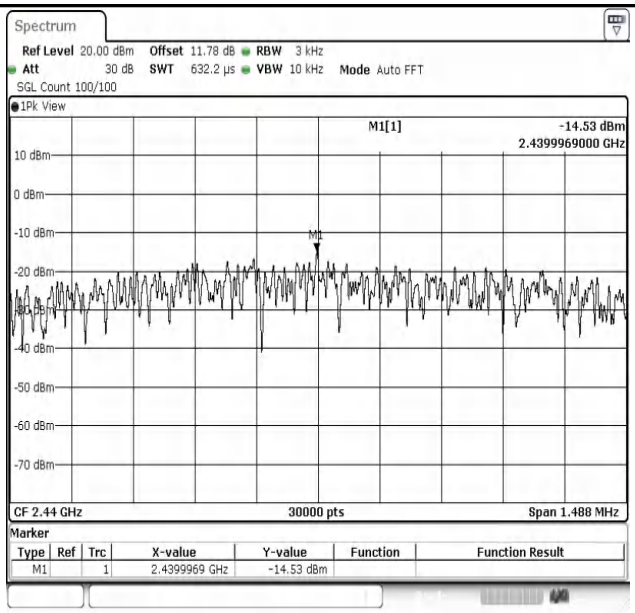
BLE_1M-Ant1-2440-PASS



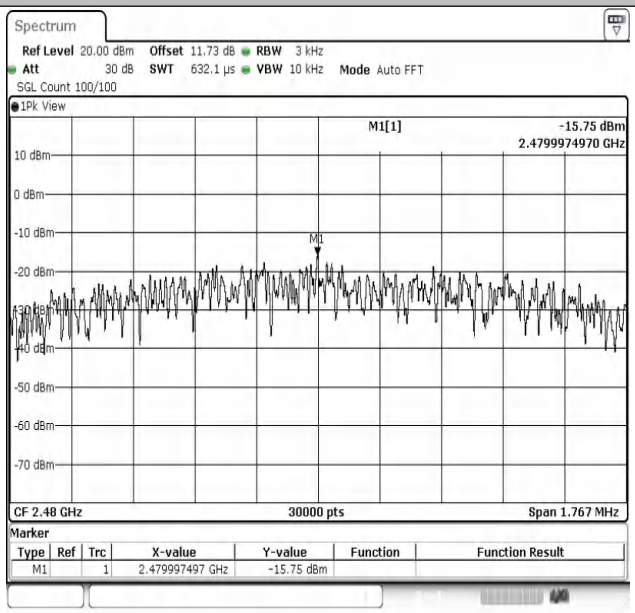
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



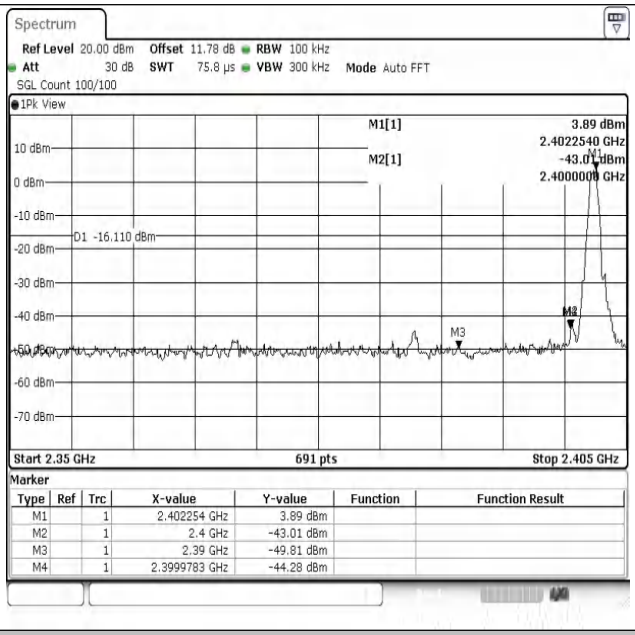
BLE_2M-Ant1-2480-PASS

Appendix E: Band edge measurements

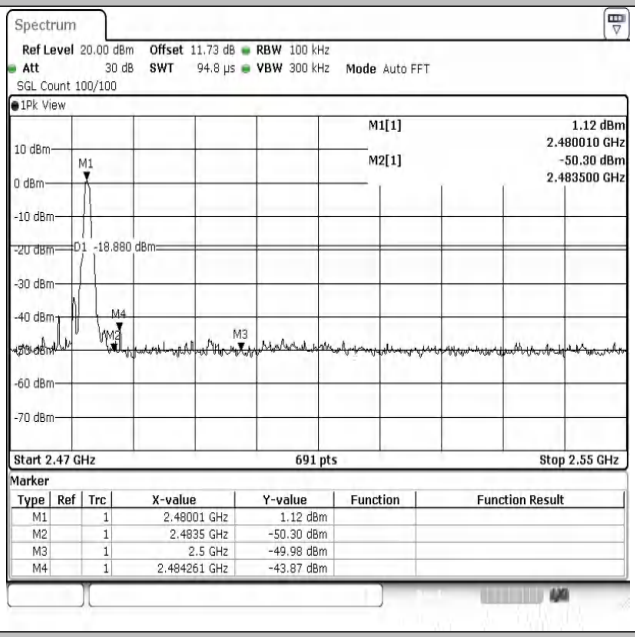
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.89	-44.28	≤-16.11	PASS
BLE_1M	Ant1	High	2480	1.12	-43.87	≤-18.88	PASS
BLE_2M	Ant1	Low	2402	3.30	-31.23	≤-16.7	PASS
BLE_2M	Ant1	High	2480	0.36	-46.36	≤-19.64	PASS

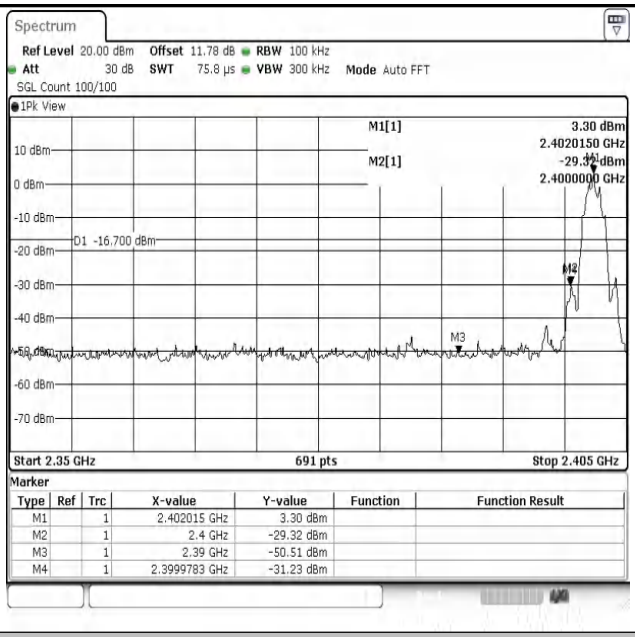
Test Graphs



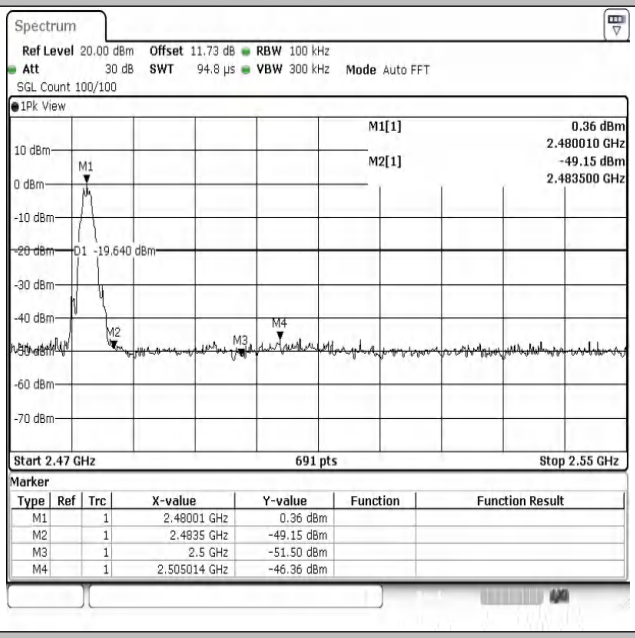
BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



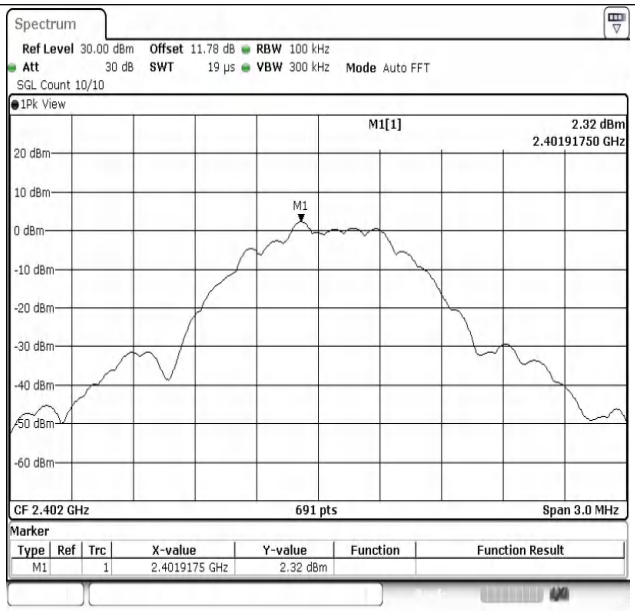
BLE_2M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

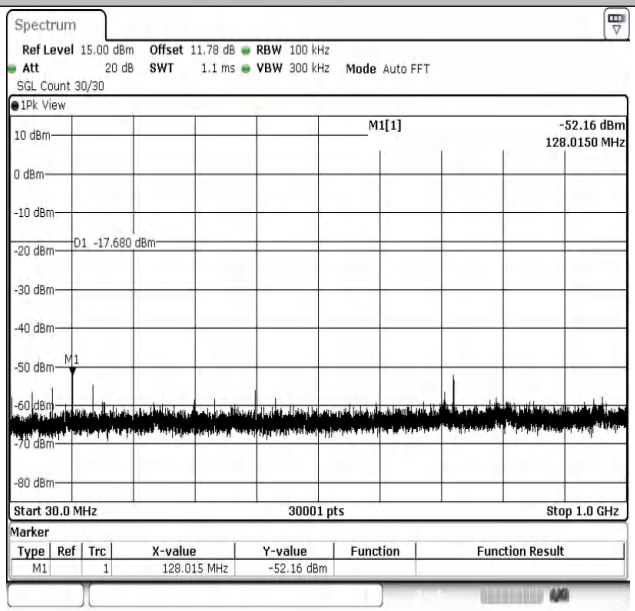
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.32	2.32	---	PASS
BLE_1M	Ant1	2402	30~1000	2.32	-52.16	≤-17.68	PASS
BLE_1M	Ant1	2402	1000~26500	2.32	-34.56	≤-17.68	PASS
BLE_1M	Ant1	2440	0~Reference	2.15	2.15	---	PASS
BLE_1M	Ant1	2440	30~1000	2.15	-51.63	≤-17.85	PASS
BLE_1M	Ant1	2440	1000~26500	2.15	-31.86	≤-17.85	PASS
BLE_1M	Ant1	2480	0~Reference	-0.95	-0.95	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.95	-52.17	≤-20.95	PASS
BLE_1M	Ant1	2480	1000~26500	-0.95	-32.02	≤-20.95	PASS
BLE_2M	Ant1	2402	0~Reference	2.86	2.86	---	PASS
BLE_2M	Ant1	2402	30~1000	2.86	-52.09	≤-17.14	PASS
BLE_2M	Ant1	2402	1000~26500	2.86	-33.97	≤-17.14	PASS
BLE_2M	Ant1	2440	0~Reference	0.64	0.64	---	PASS
BLE_2M	Ant1	2440	30~1000	0.64	-51.3	≤-19.36	PASS
BLE_2M	Ant1	2440	1000~26500	0.64	-33.95	≤-19.36	PASS
BLE_2M	Ant1	2480	0~Reference	-2.37	-2.37	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.37	-51.71	≤-22.37	PASS
BLE_2M	Ant1	2480	1000~26500	-2.37	-35.48	≤-22.37	PASS

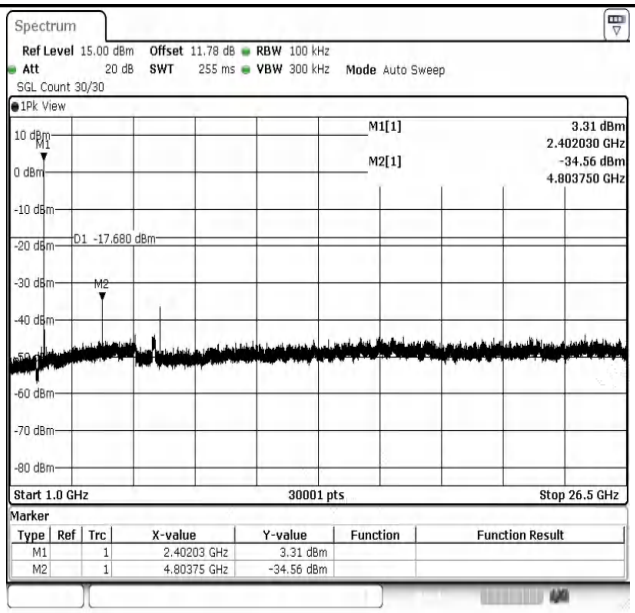
Test Graphs



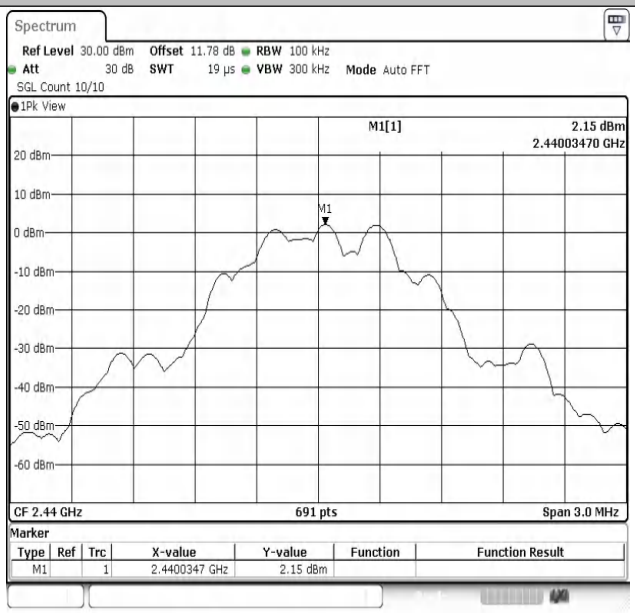
BLE_1M-Ant1-2402-0~Reference-PASS



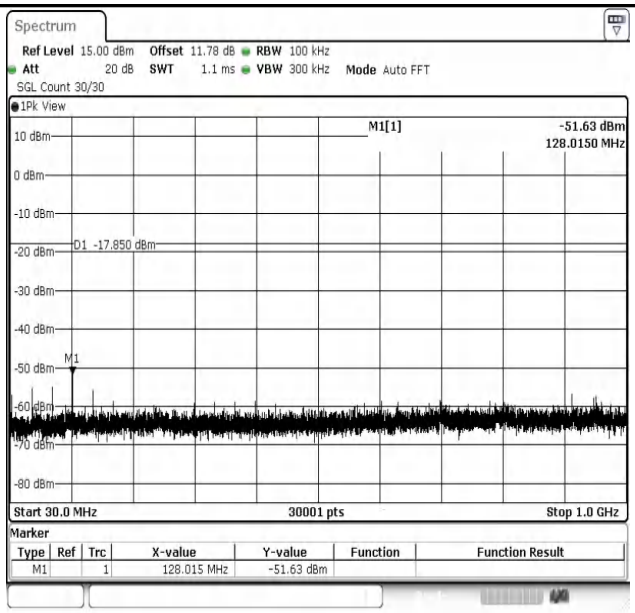
BLE_1M-Ant1-2402-30~1000-PASS



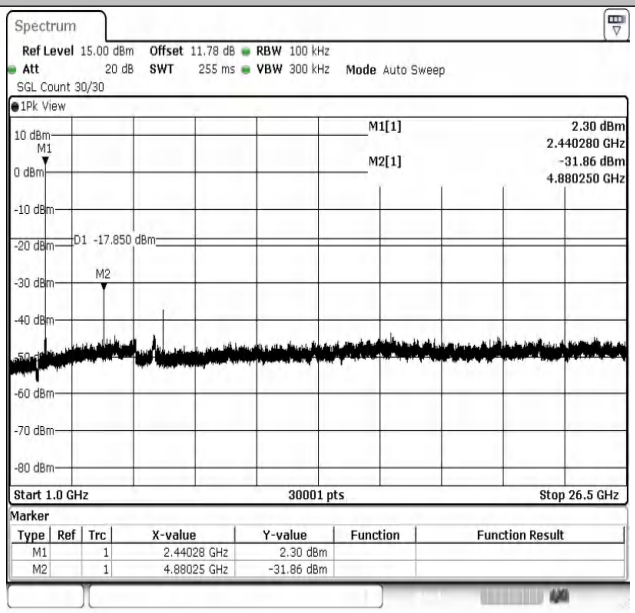
BLE_1M-Ant1-2402-1000~26500-PASS



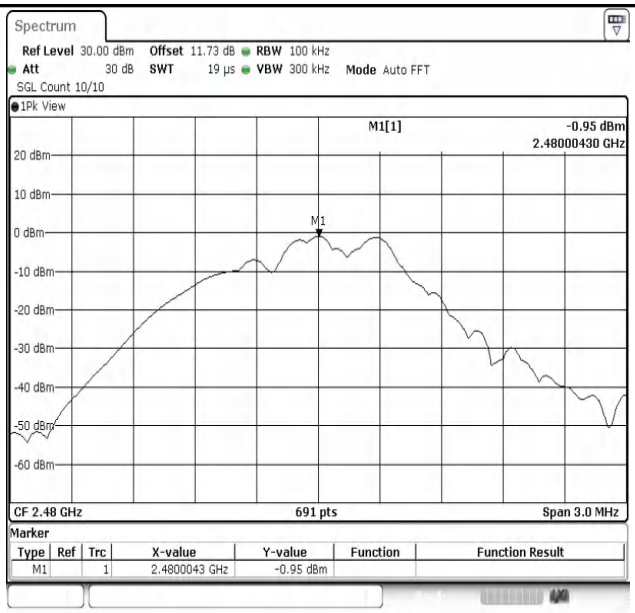
BLE_1M-Ant1-2440-0~Reference-PASS



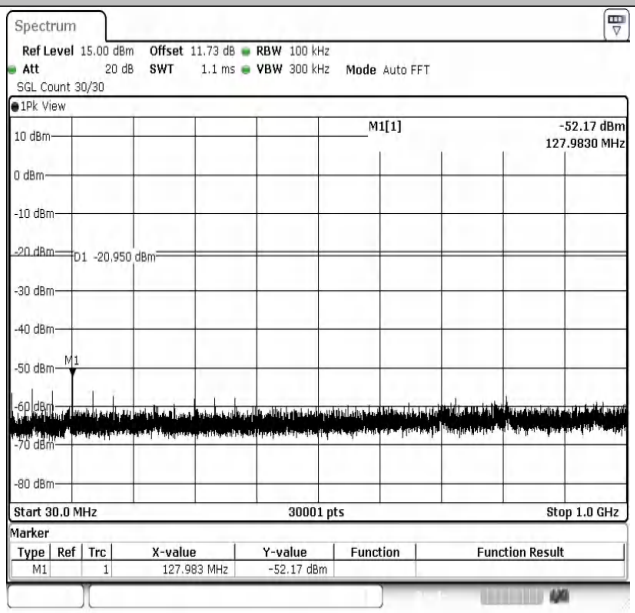
BLE_1M-Ant1-2440-30~1000-PASS



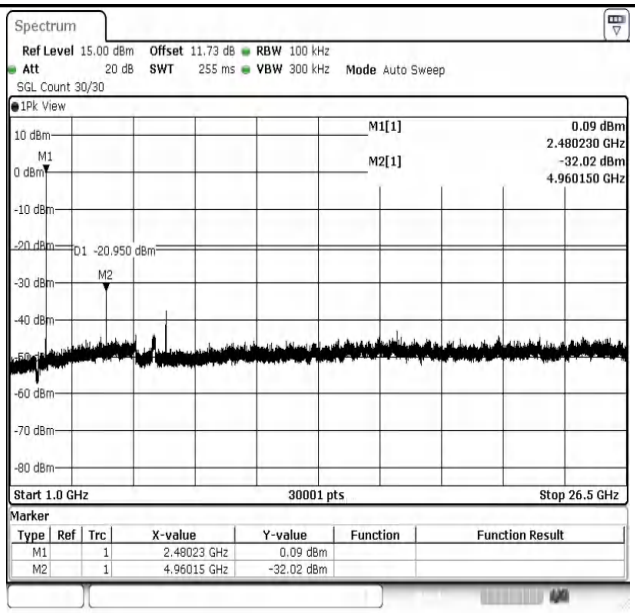
BLE_1M-Ant1-2440-1000~26500-PASS



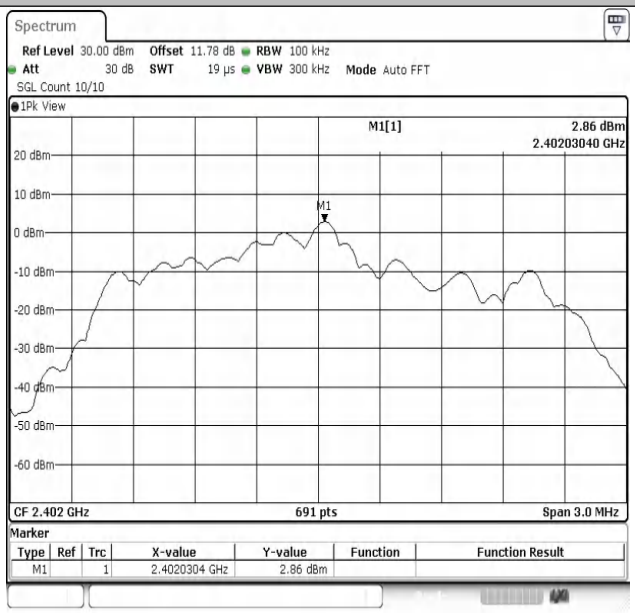
BLE_1M-Ant1-2480-0~Reference-PASS



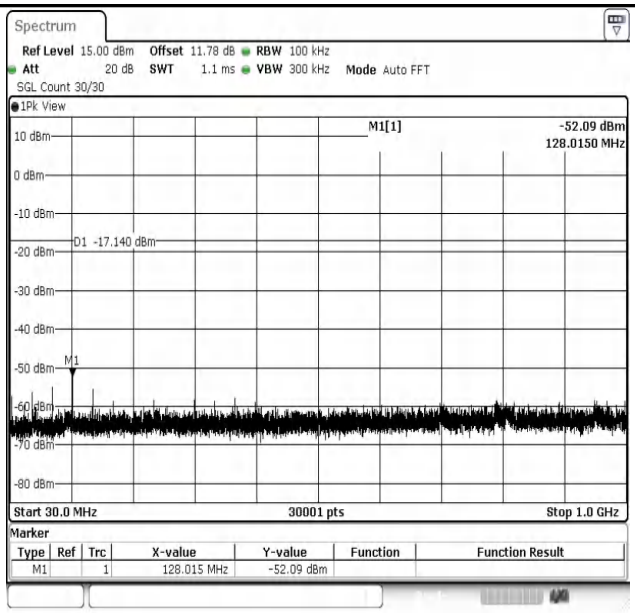
BLE_1M-Ant1-2480-30~1000-PASS



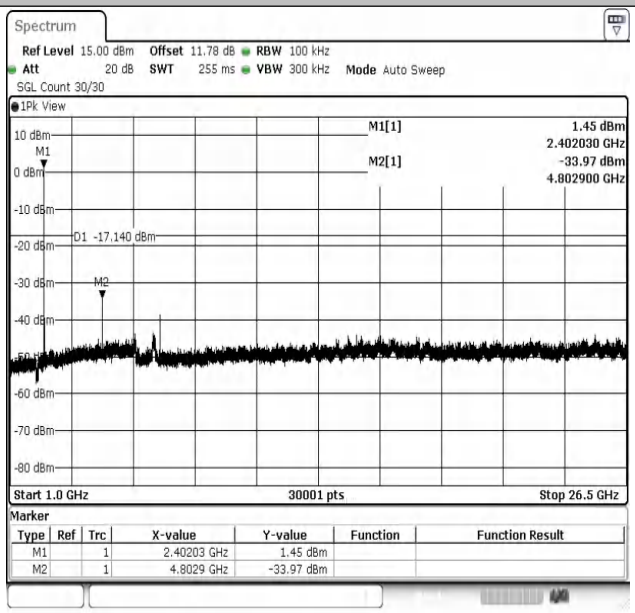
BLE_1M-Ant1-2480-1000~26500-PASS



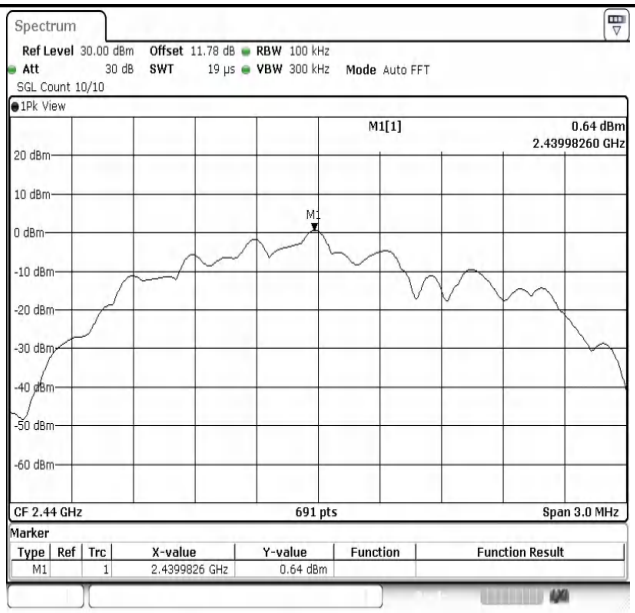
BLE_2M-Ant1-2402-0~Reference-PASS



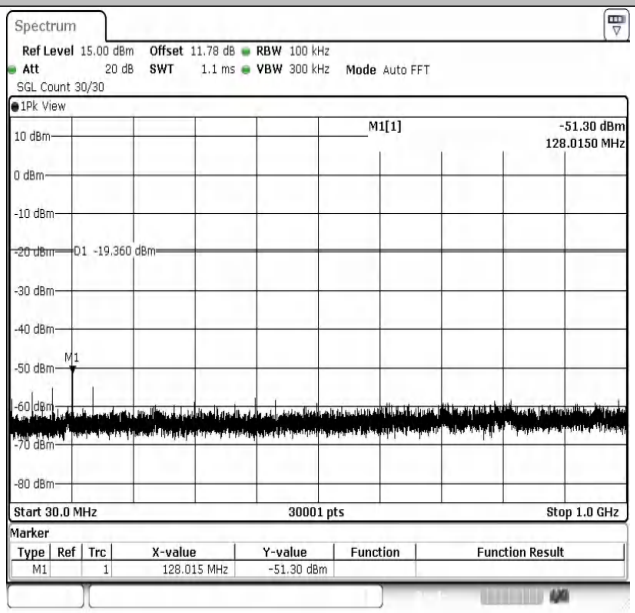
BLE_2M-Ant1-2402-30~1000-PASS



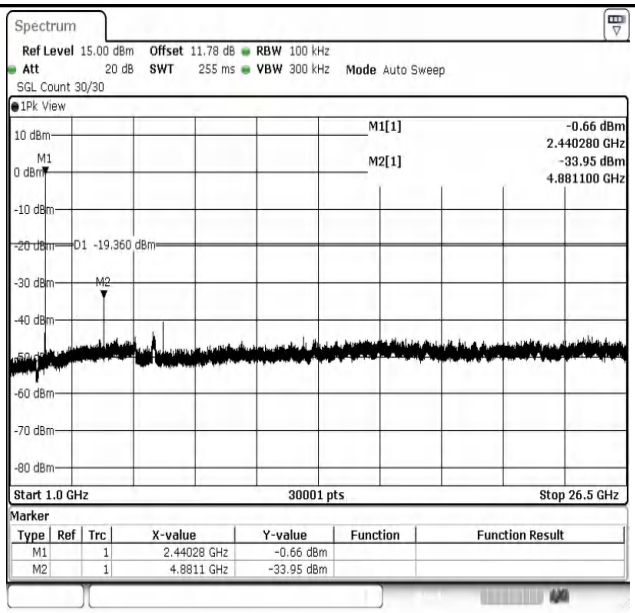
BLE_2M-Ant1-2402-1000~26500-PASS



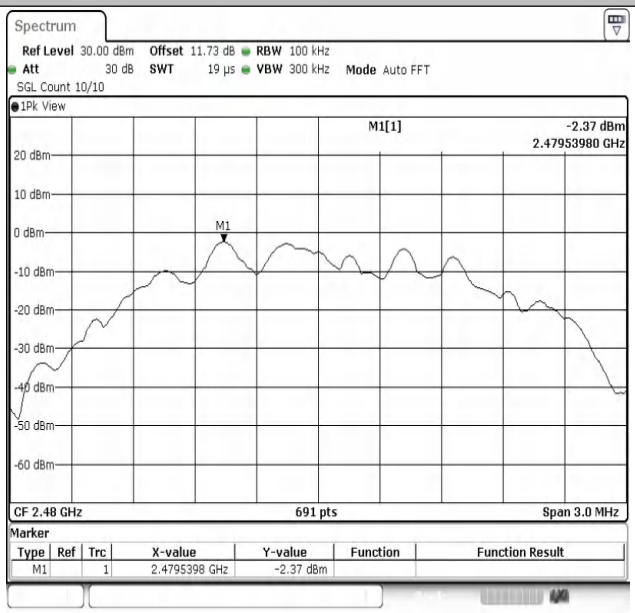
BLE_2M-Ant1-2440-0~Reference-PASS



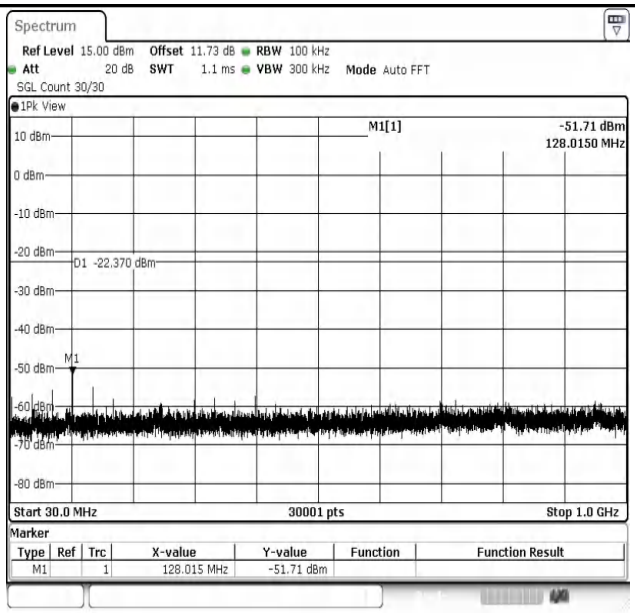
BLE_2M-Ant1-2440-30~1000-PASS



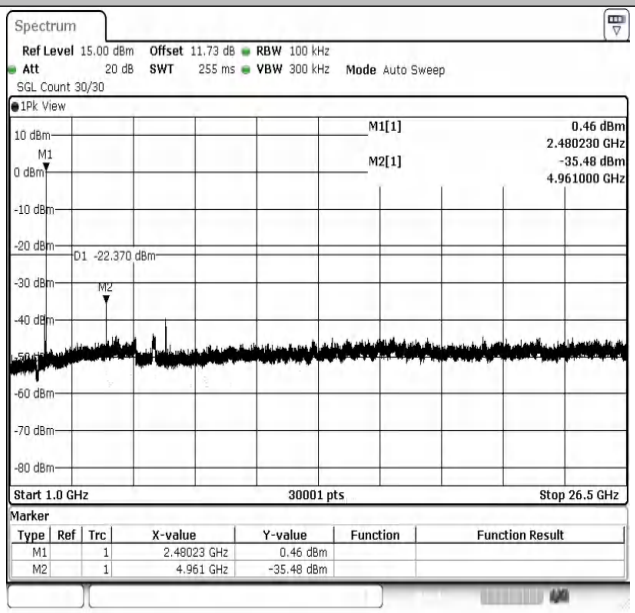
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



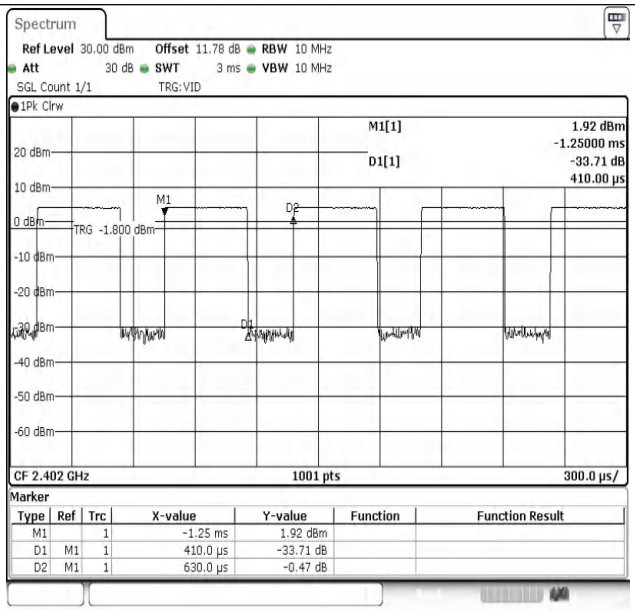
BLE_2M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

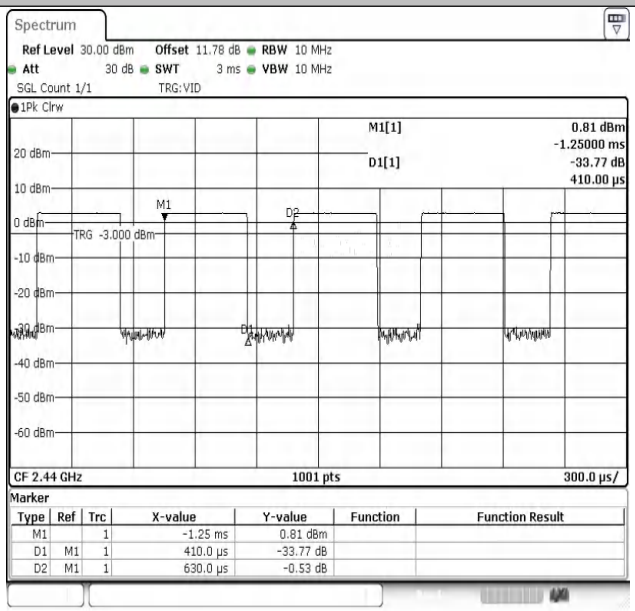
Test Result

Test Mode	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

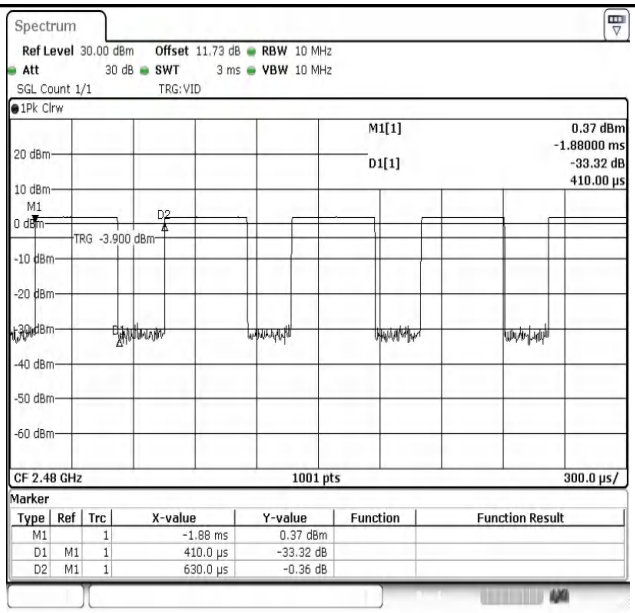
Test Graphs



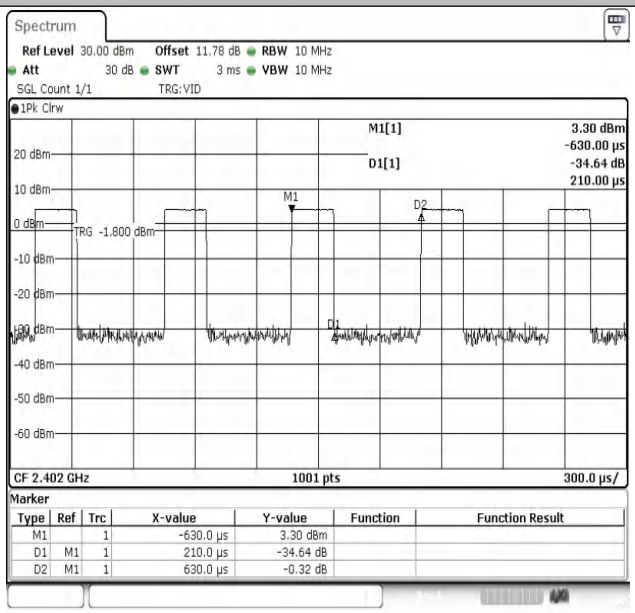
NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480



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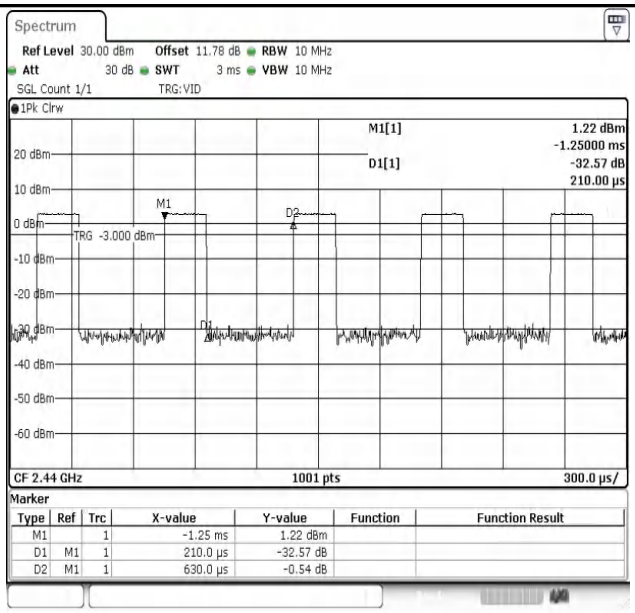
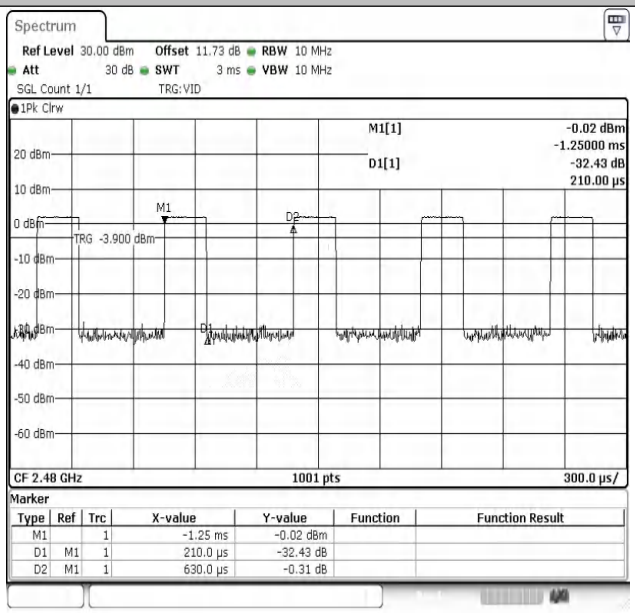


NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---