

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wanbo Projector

Trade Mark: Wanbo

Test Model: WPC14

FCC ID: 2A7PI-WPC14

Environmental Conditions

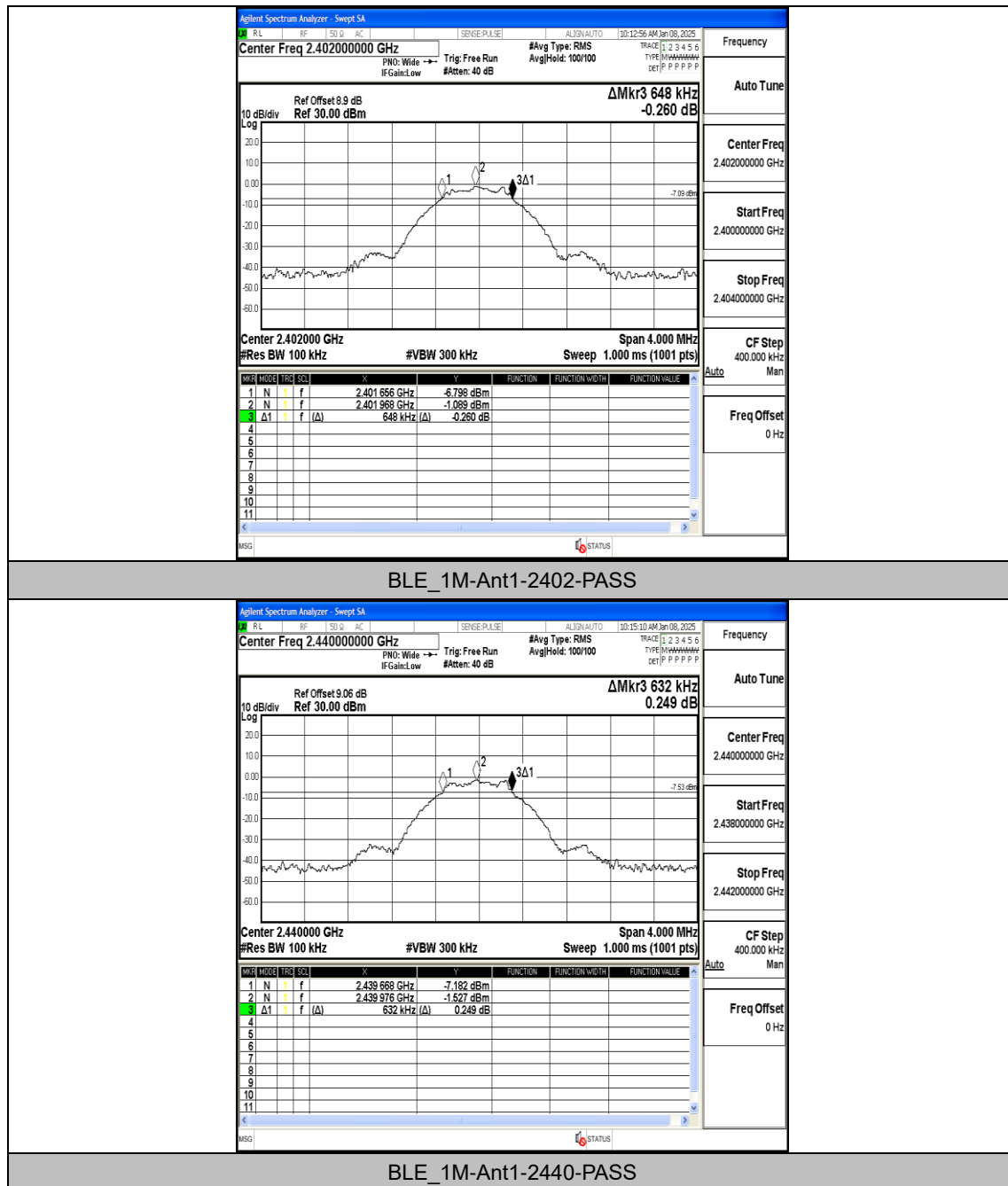
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

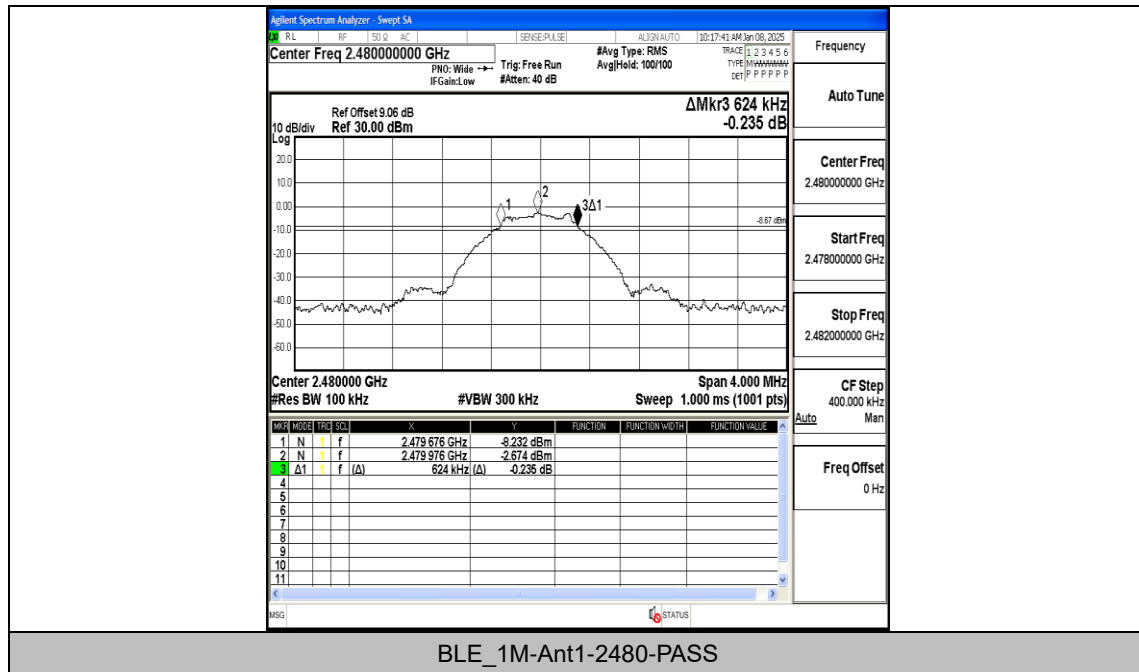
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.648	2401.656	2402.304	0.5	PASS
BLE_1M	Ant1	2440	0.632	2439.668	2440.300	0.5	PASS
BLE_1M	Ant1	2480	0.624	2479.676	2480.300	0.5	PASS

Test Graphs



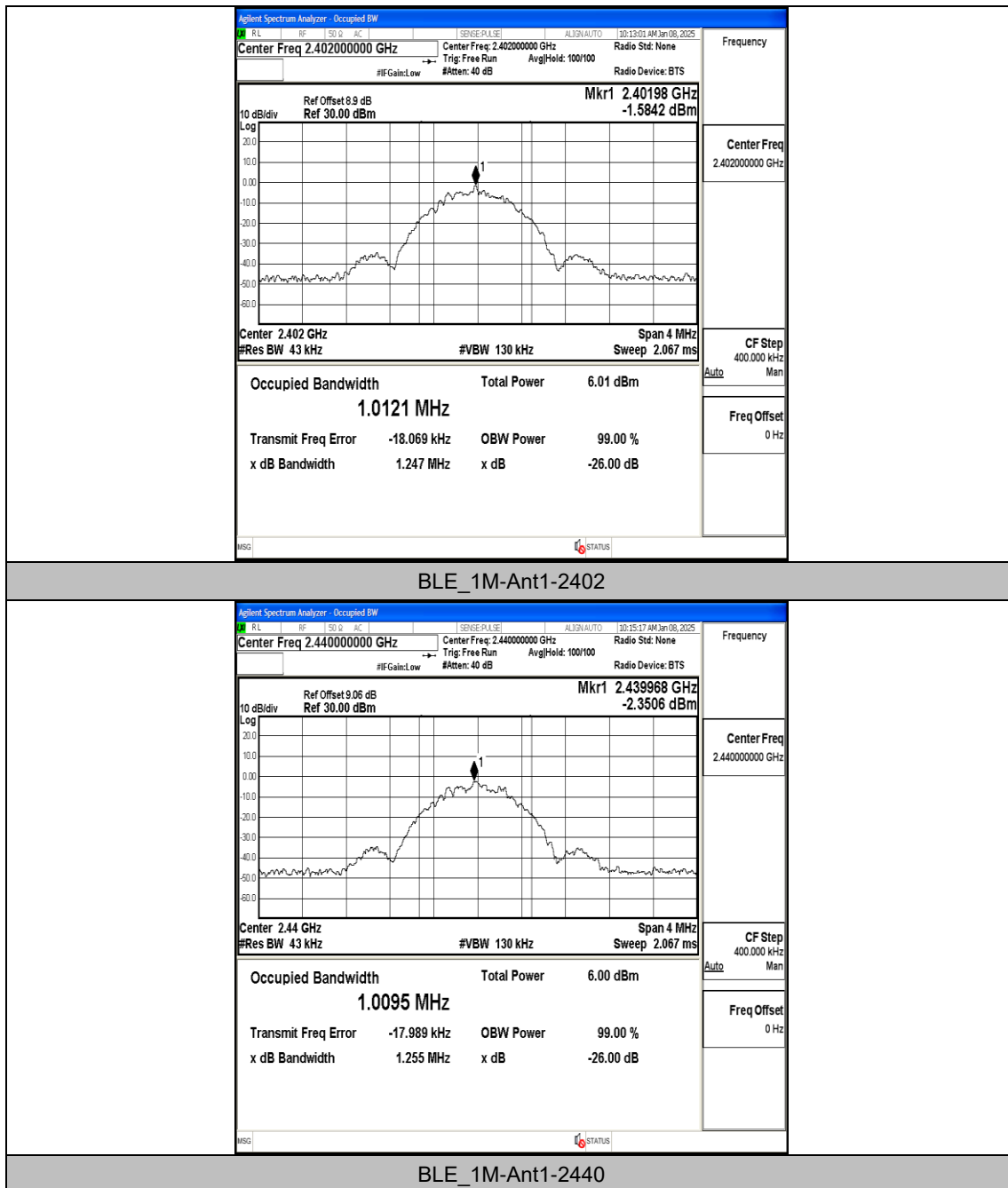


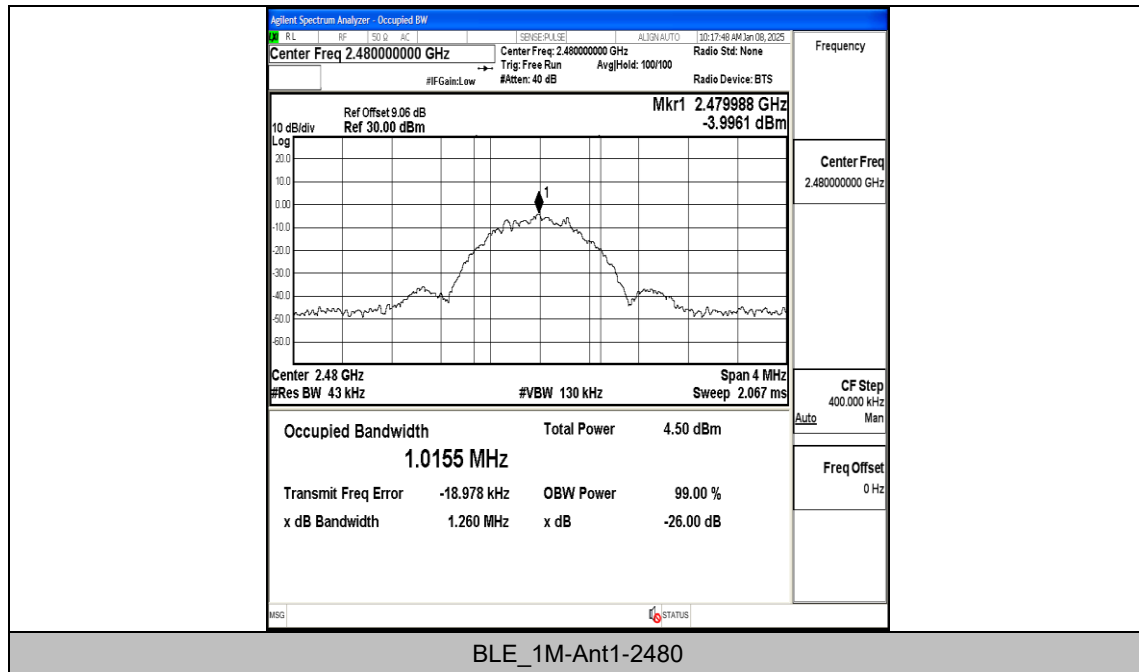
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0121	2401.4759	2402.4880	---	---
BLE_1M	Ant1	2440	1.0095	2439.4773	2440.4868	---	---
BLE_1M	Ant1	2480	1.0155	2479.4733	2480.4888	---	---

Test Graphs



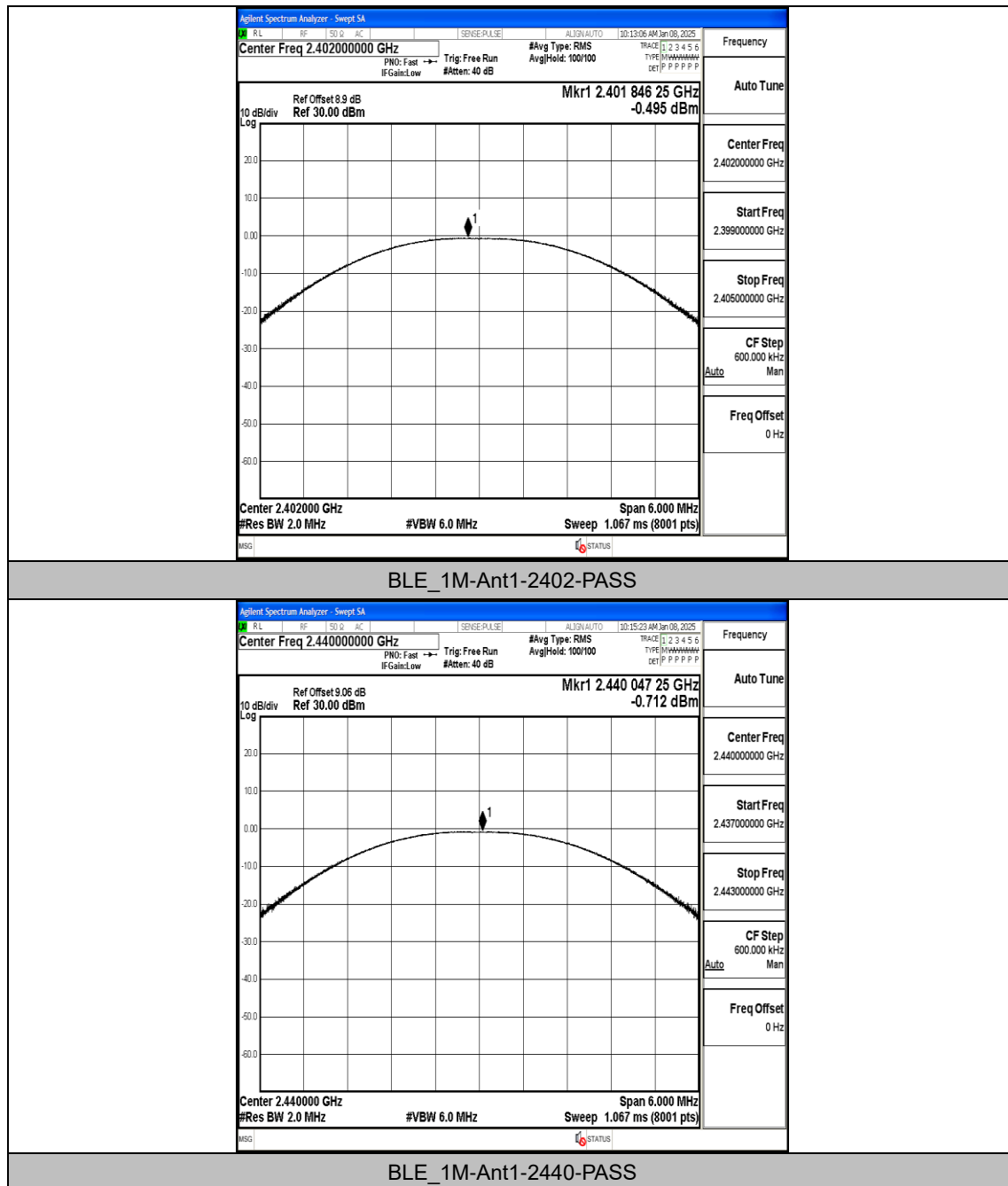


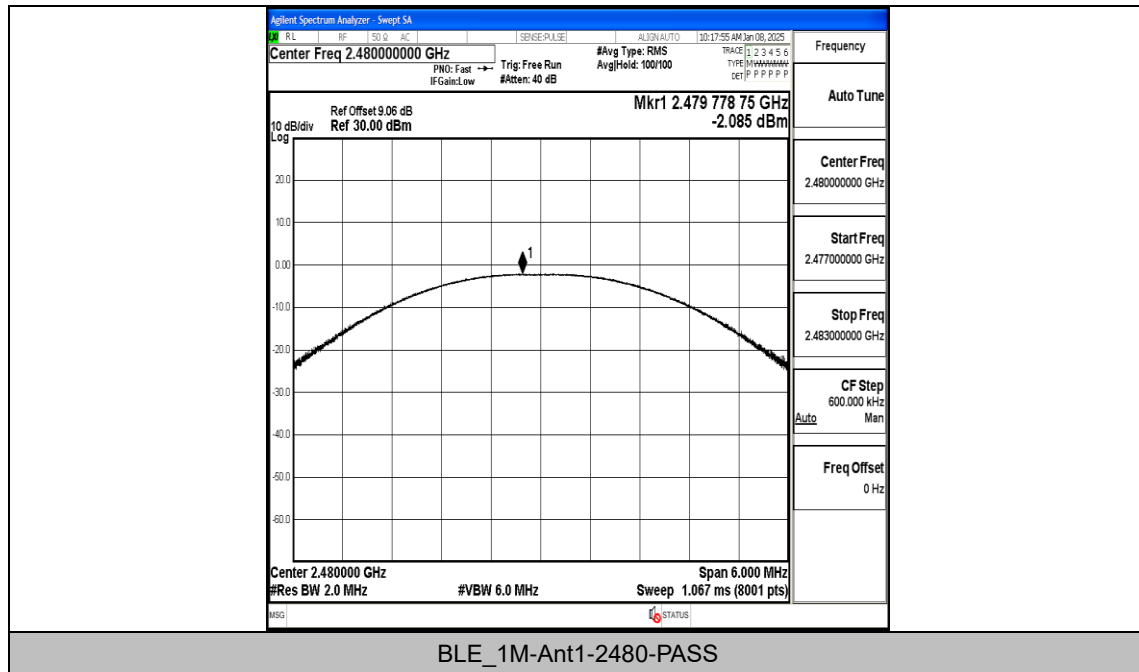
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-0.50	≤30	PASS
BLE_1M	Ant1	2440	-0.71	≤30	PASS
BLE_1M	Ant1	2480	-2.09	≤30	PASS

Test Graphs Peak



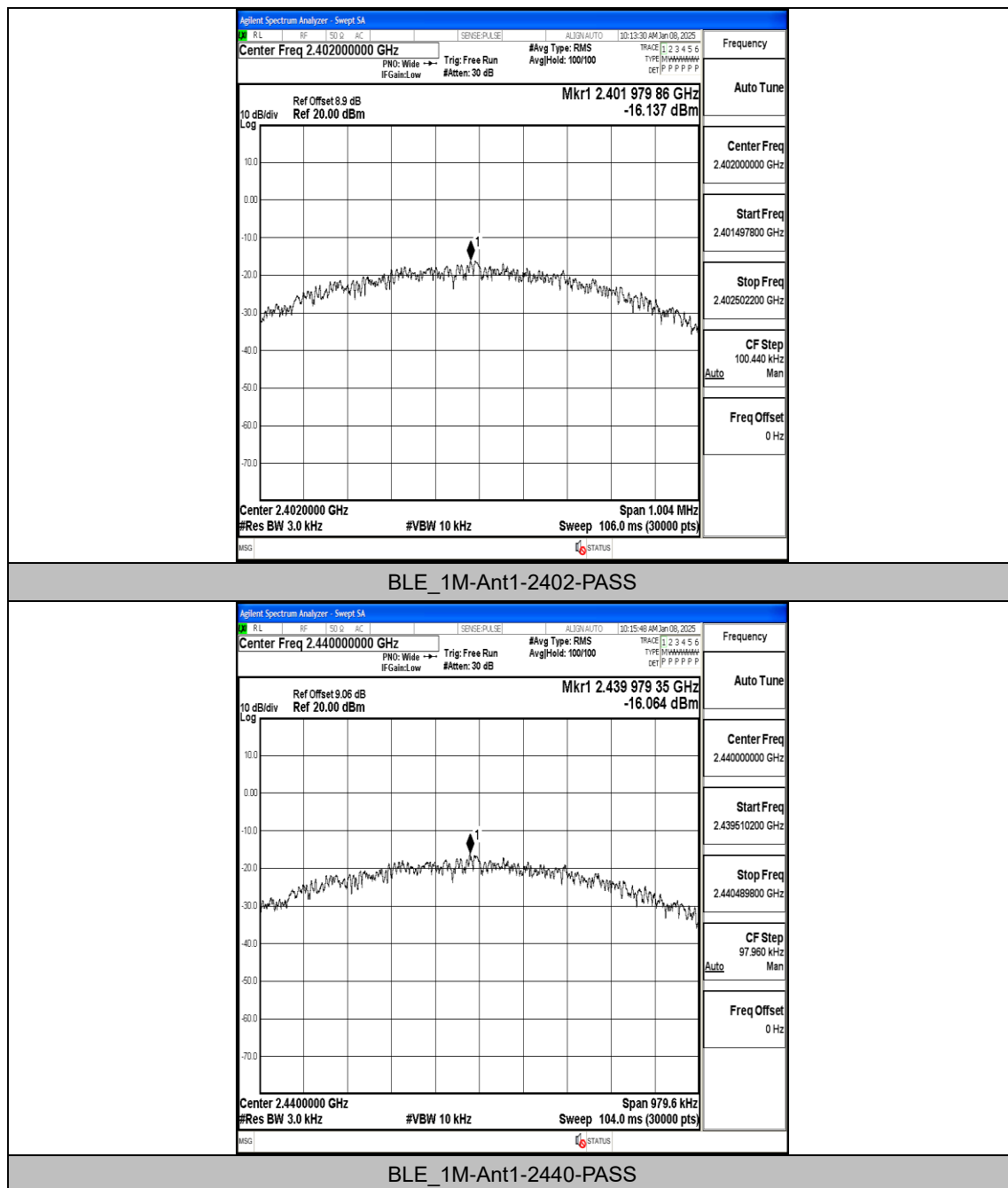


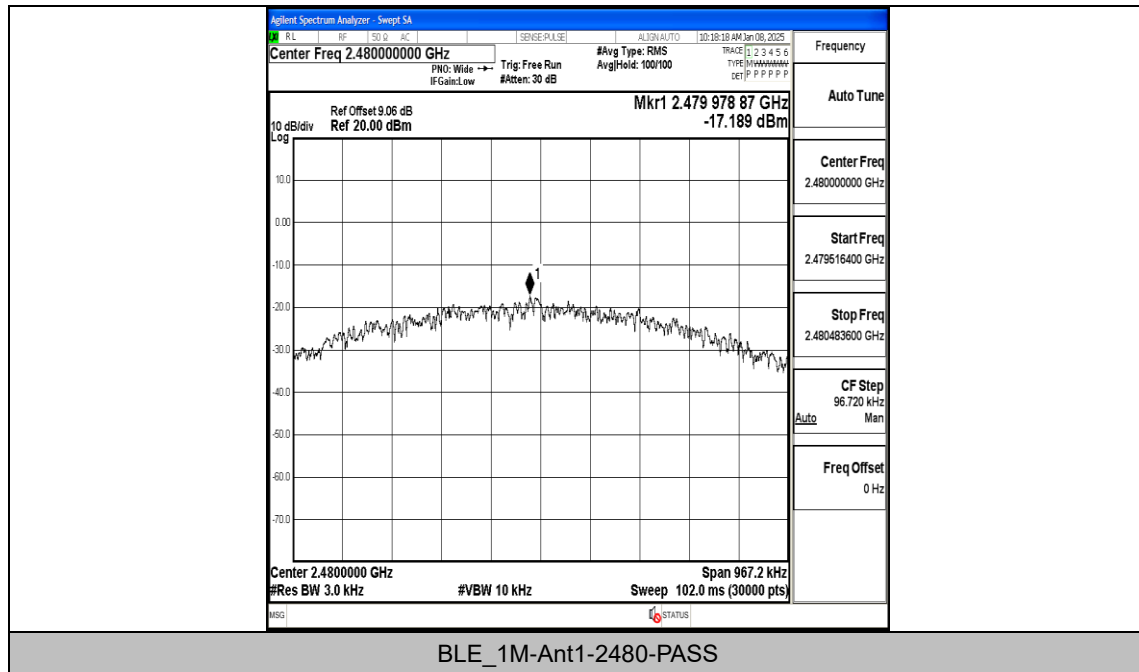
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.14	≤8.00	PASS
BLE_1M	Ant1	2440	-16.06	≤8.00	PASS
BLE_1M	Ant1	2480	-17.19	≤8.00	PASS

Test Graphs



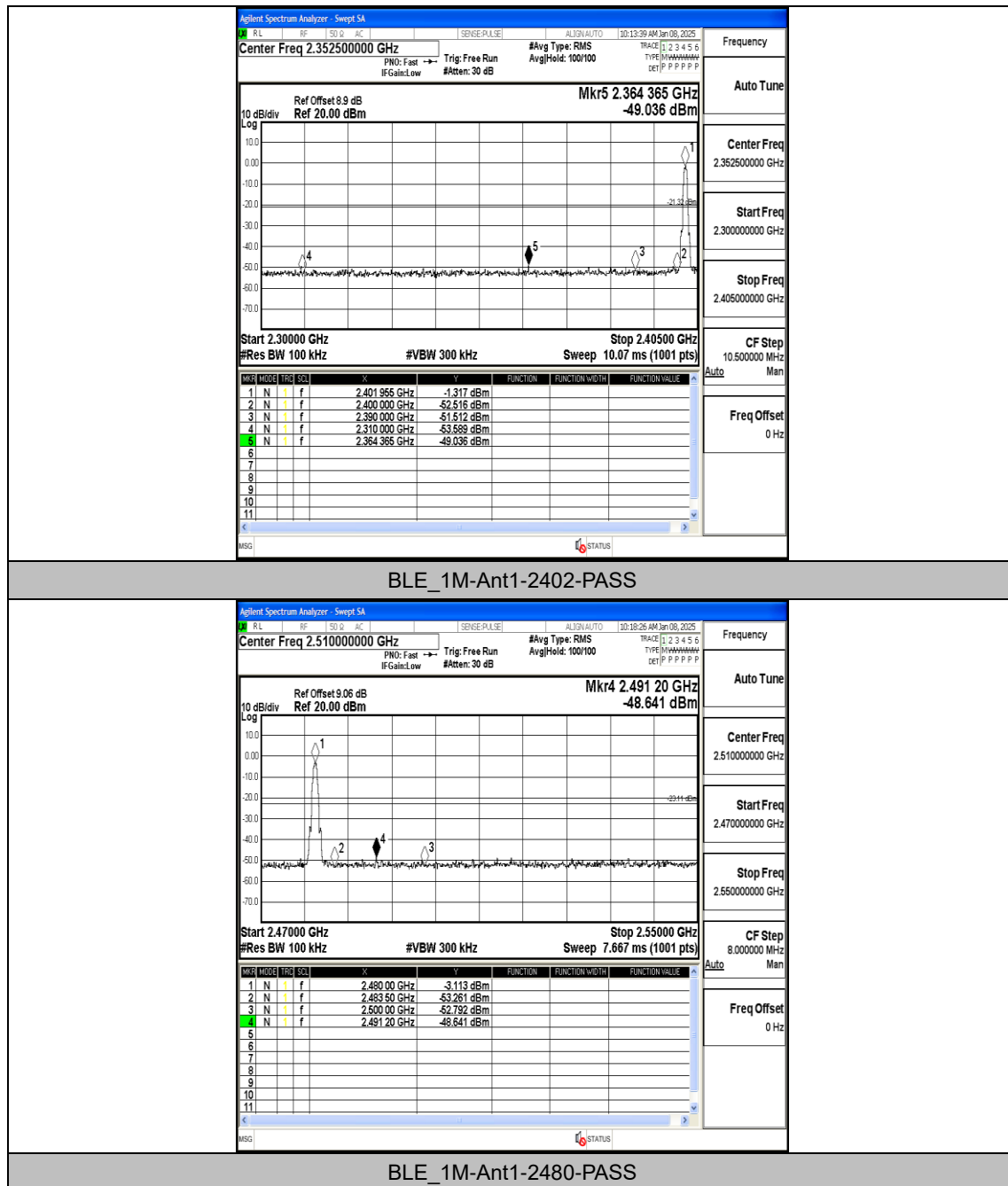


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.32	-49.04	≤ -21.32	PASS
BLE_1M	Ant1	High	2480	-3.11	-48.64	≤ -23.11	PASS

Test Graphs

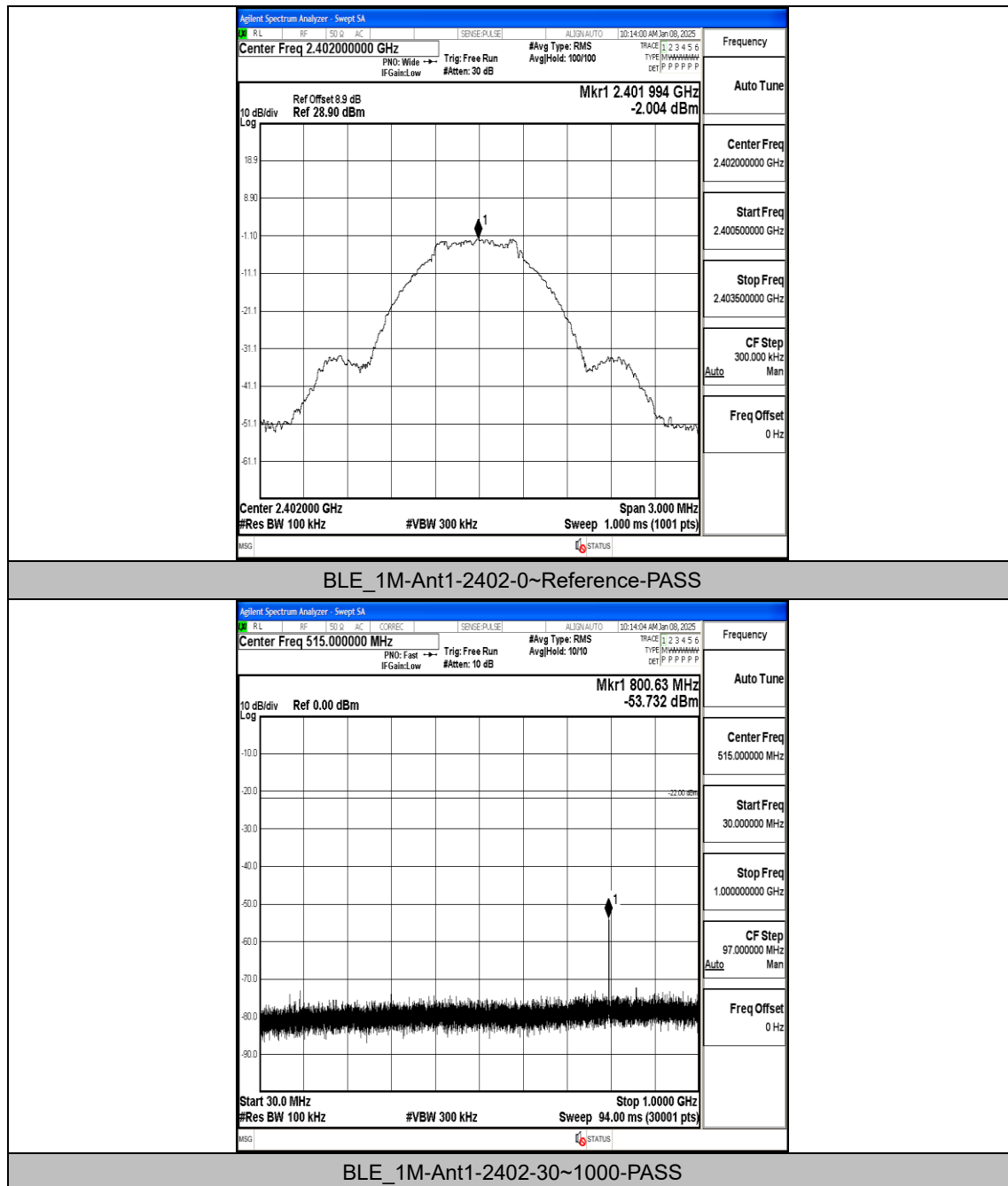


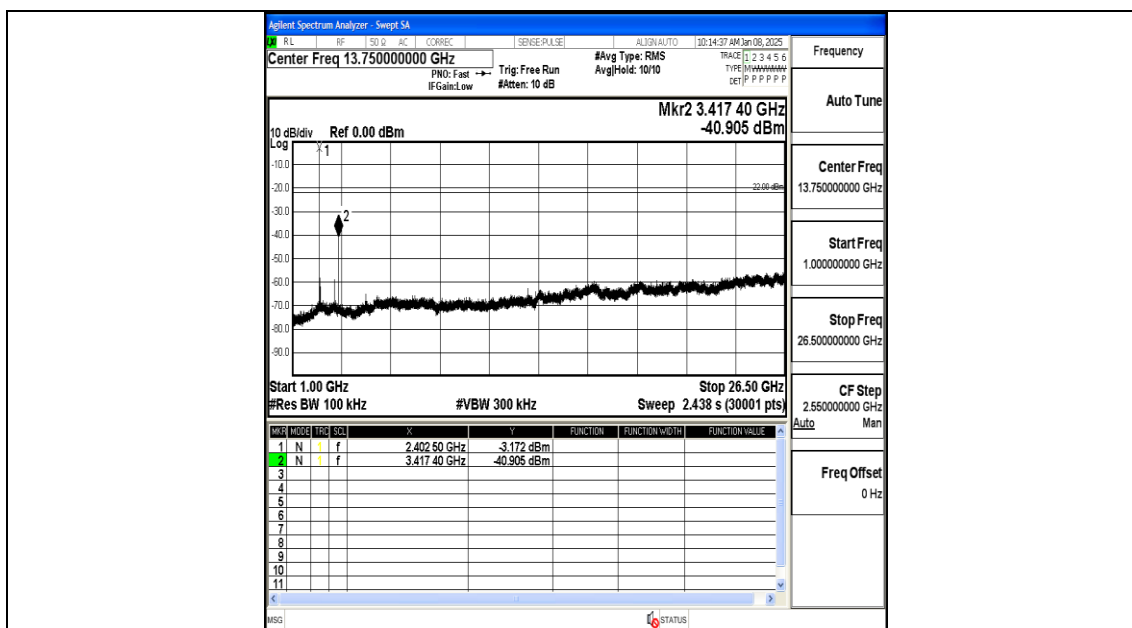
Appendix F: Conducted Spurious Emission

Test Result

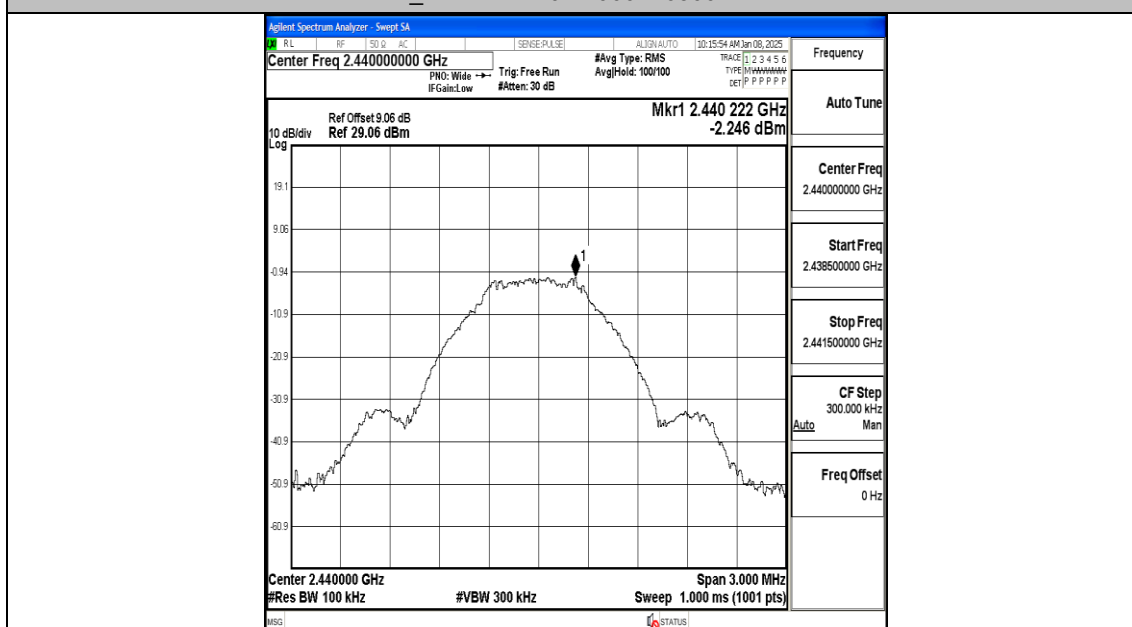
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.00	-2.00	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.00	-53.73	≤ -22	PASS
BLE_1M	Ant1	2402	1000~26500	-2.00	-40.91	≤ -22	PASS
BLE_1M	Ant1	2440	0~Reference	-2.25	-2.25	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.25	-49.68	≤ -22.25	PASS
BLE_1M	Ant1	2440	1000~26500	-2.25	-55.58	≤ -22.25	PASS
BLE_1M	Ant1	2480	0~Reference	-3.06	-3.06	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.06	-51.65	≤ -23.06	PASS
BLE_1M	Ant1	2480	1000~26500	-3.06	-55.52	≤ -23.06	PASS

Test Graphs

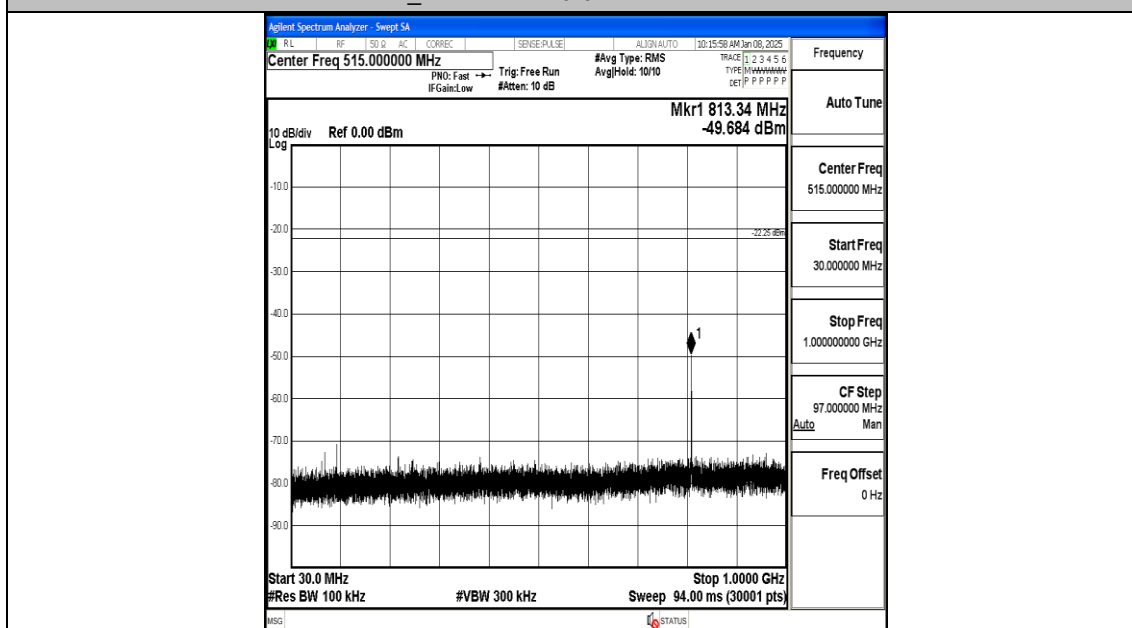




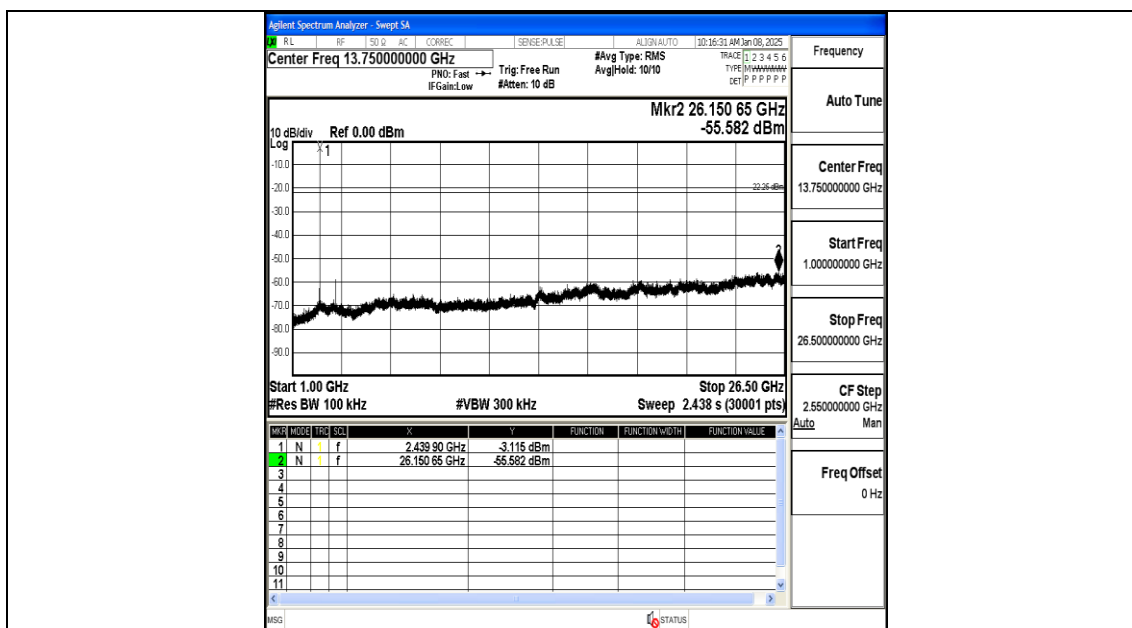
BLE_1M-Ant1-2402-1000~26500-PASS



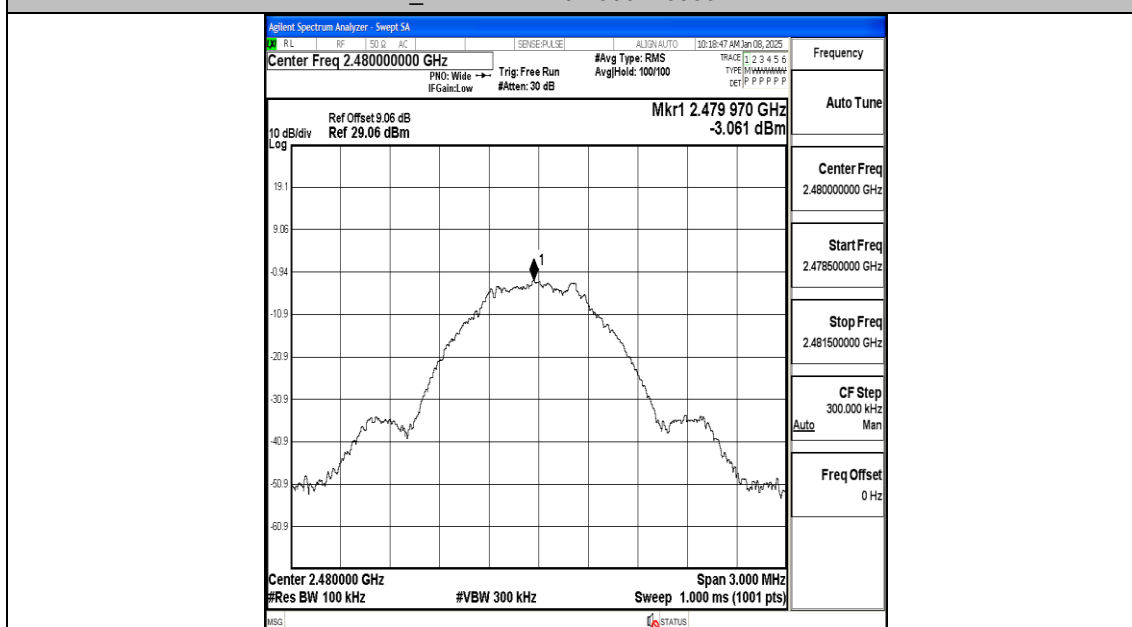
BLE_1M-Ant1-2440-0~Reference-PASS



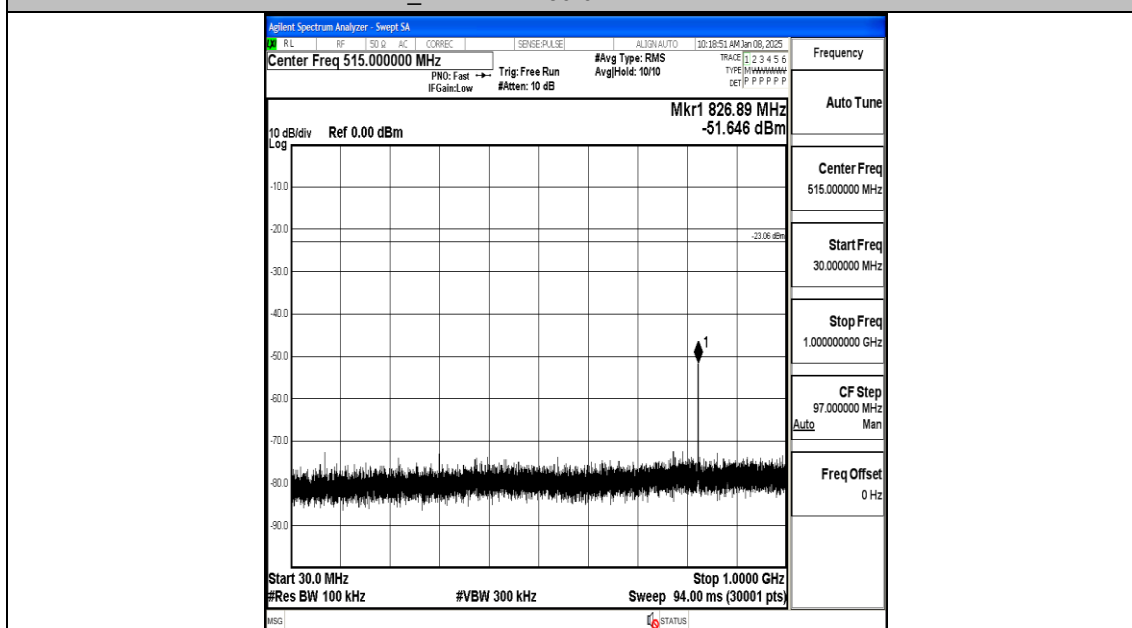
BLE_1M-Ant1-2440-30~1000-PASS



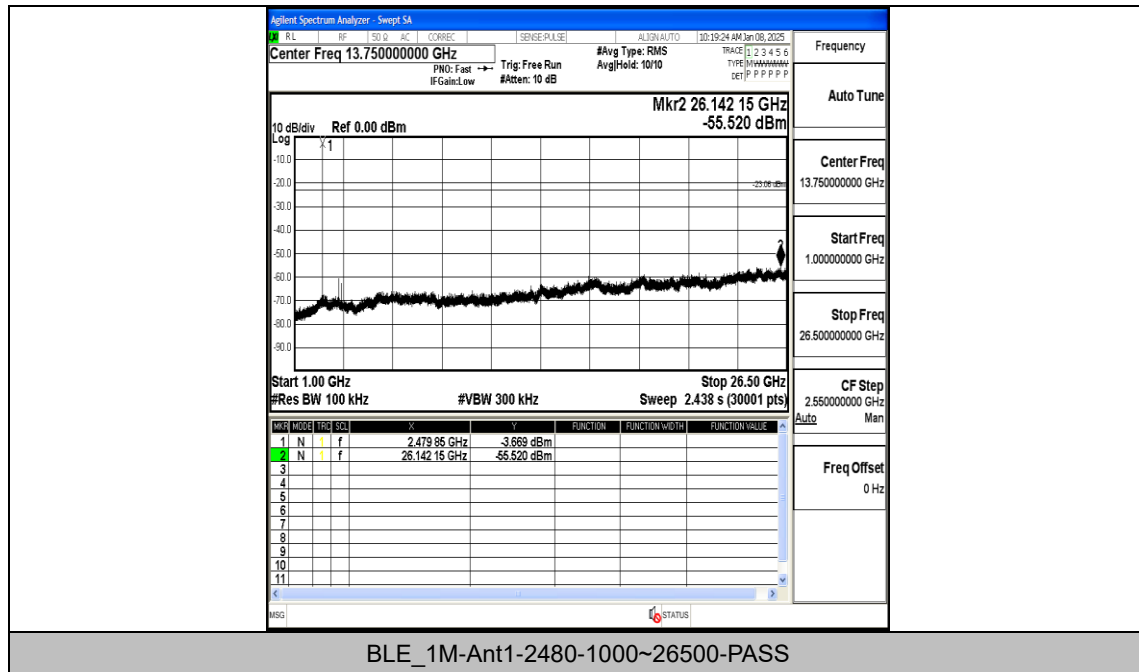
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	2.09	2.50	83.60	0.78
BLE_1M	Ant1	2440	2.09	2.50	83.60	0.78
BLE_1M	Ant1	2480	2.09	2.50	83.60	0.78

Test Graphs

