

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Wireless Keyboard

Trade Mark: JamesDonkey

Test Model: J4

FCC ID: 2BGKB-J4

Environmental Conditions

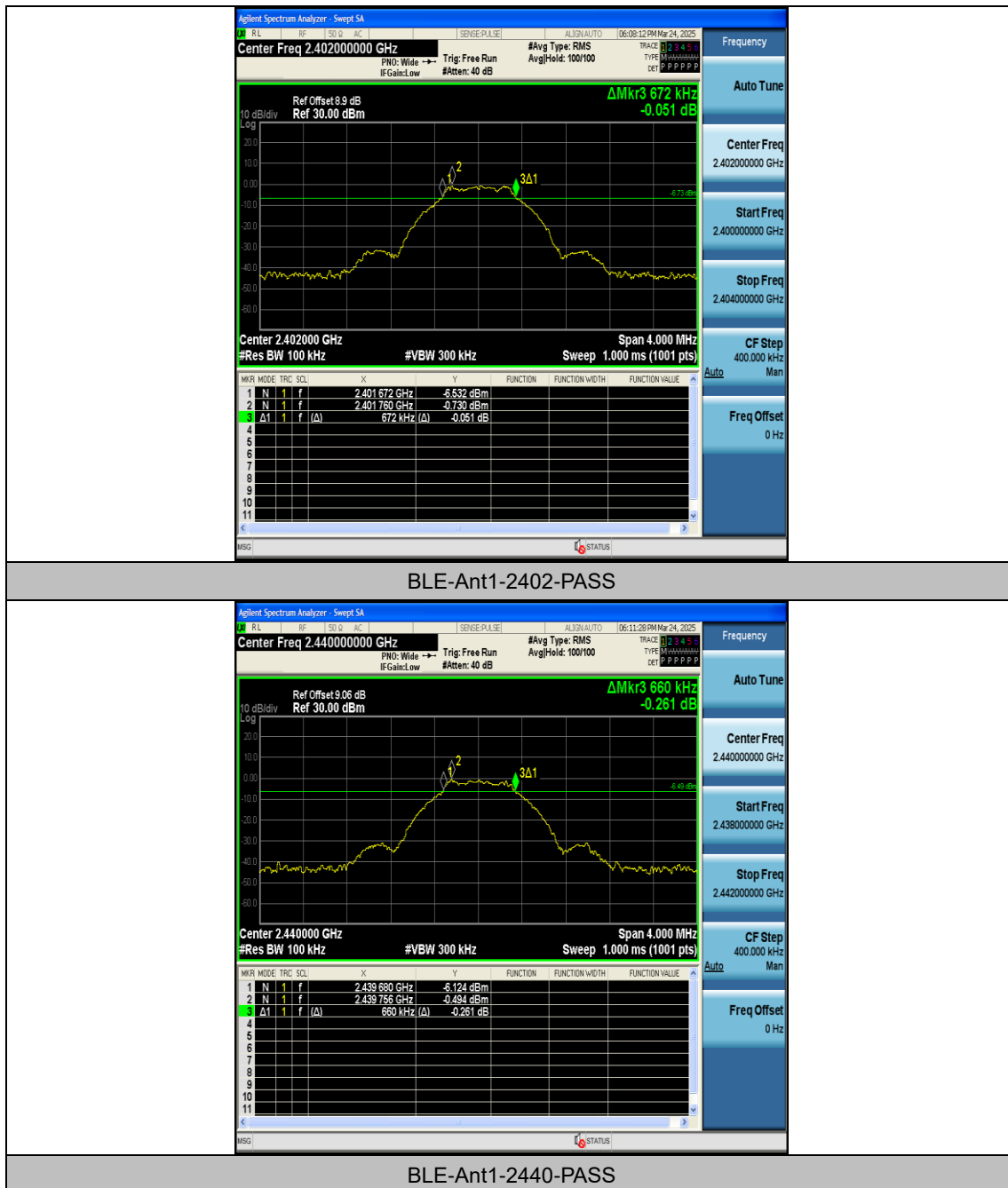
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

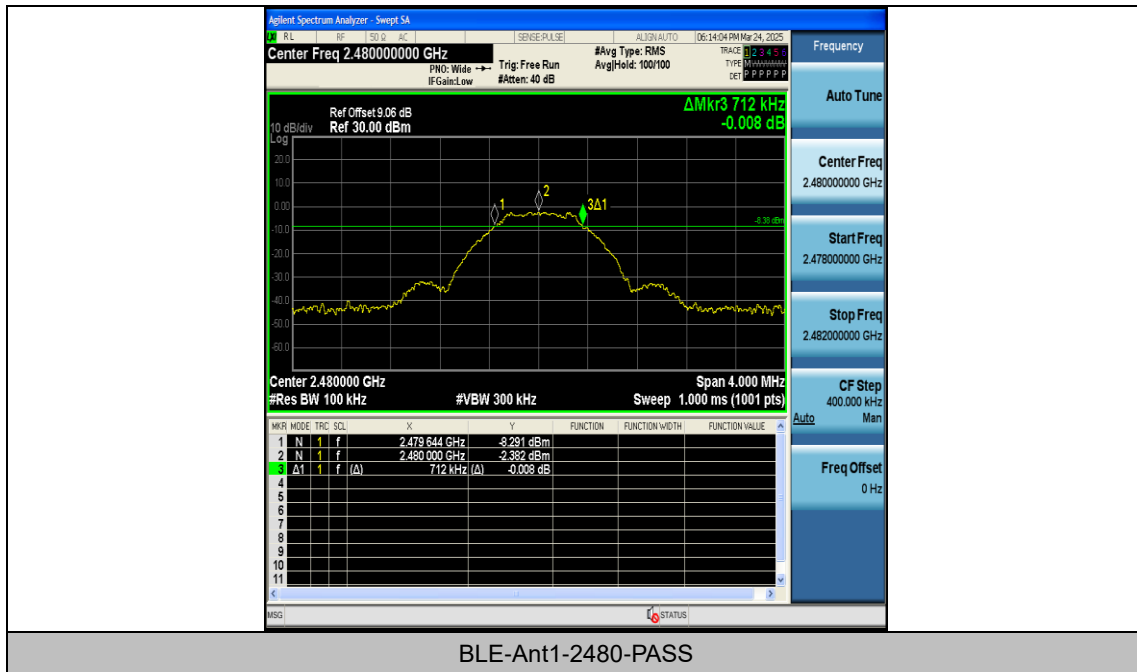
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	0.672	2401.672	2402.344	0.5	PASS
BLE	Ant1	2440	0.660	2439.680	2440.340	0.5	PASS
BLE	Ant1	2480	0.712	2479.644	2480.356	0.5	PASS

Test Graphs



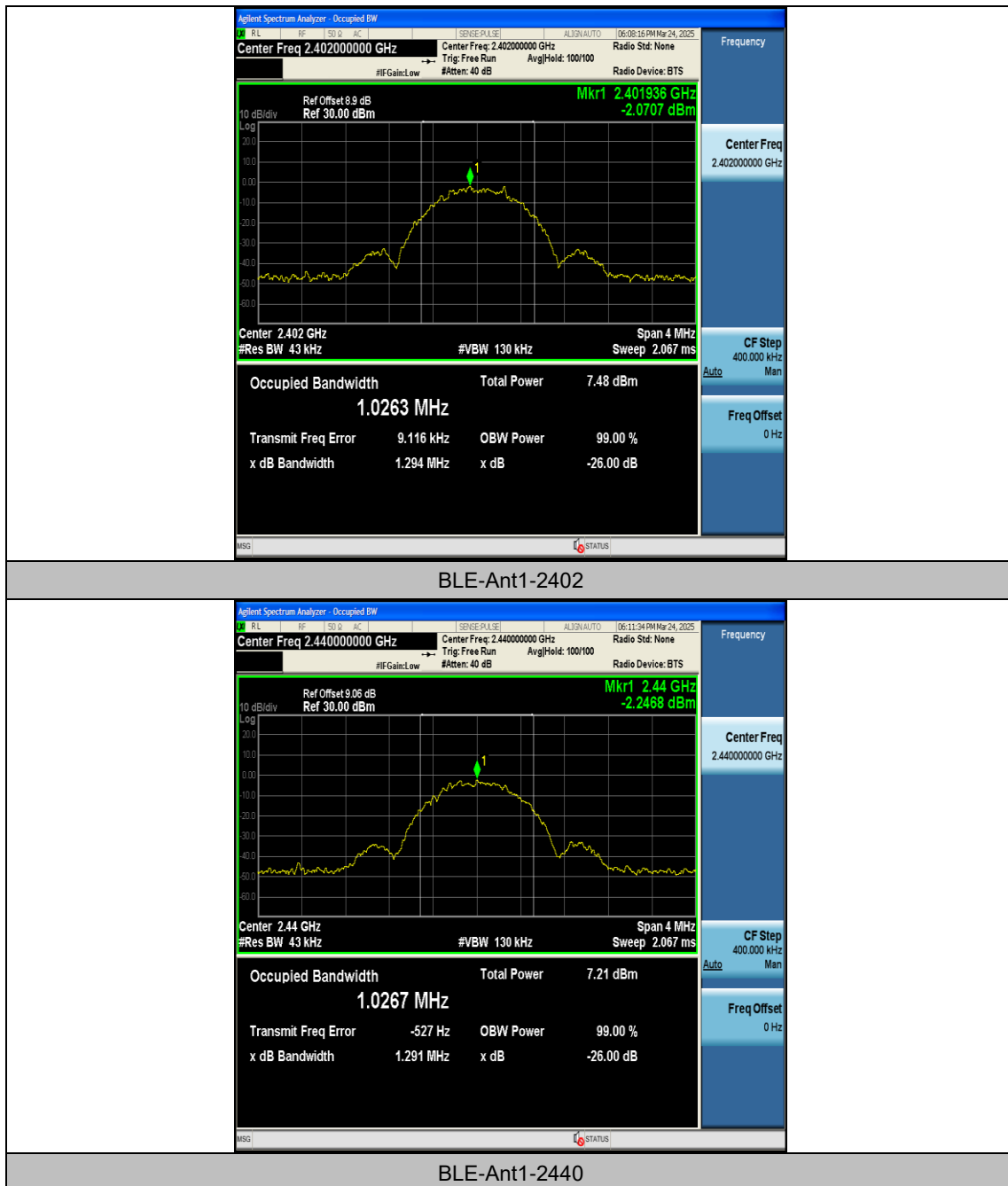


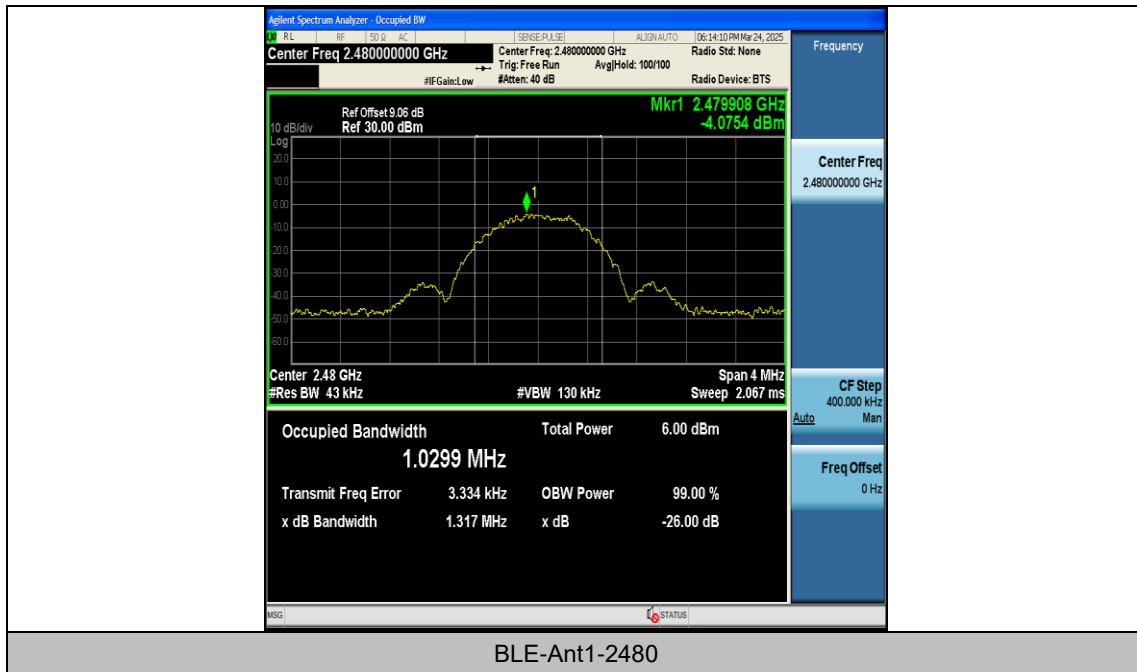
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE	Ant1	2402	1.0263	2401.4960	2402.5223	---	---
BLE	Ant1	2440	1.0267	2439.4861	2440.5128	---	---
BLE	Ant1	2480	1.0299	2479.4884	2480.5183	---	---

Test Graphs



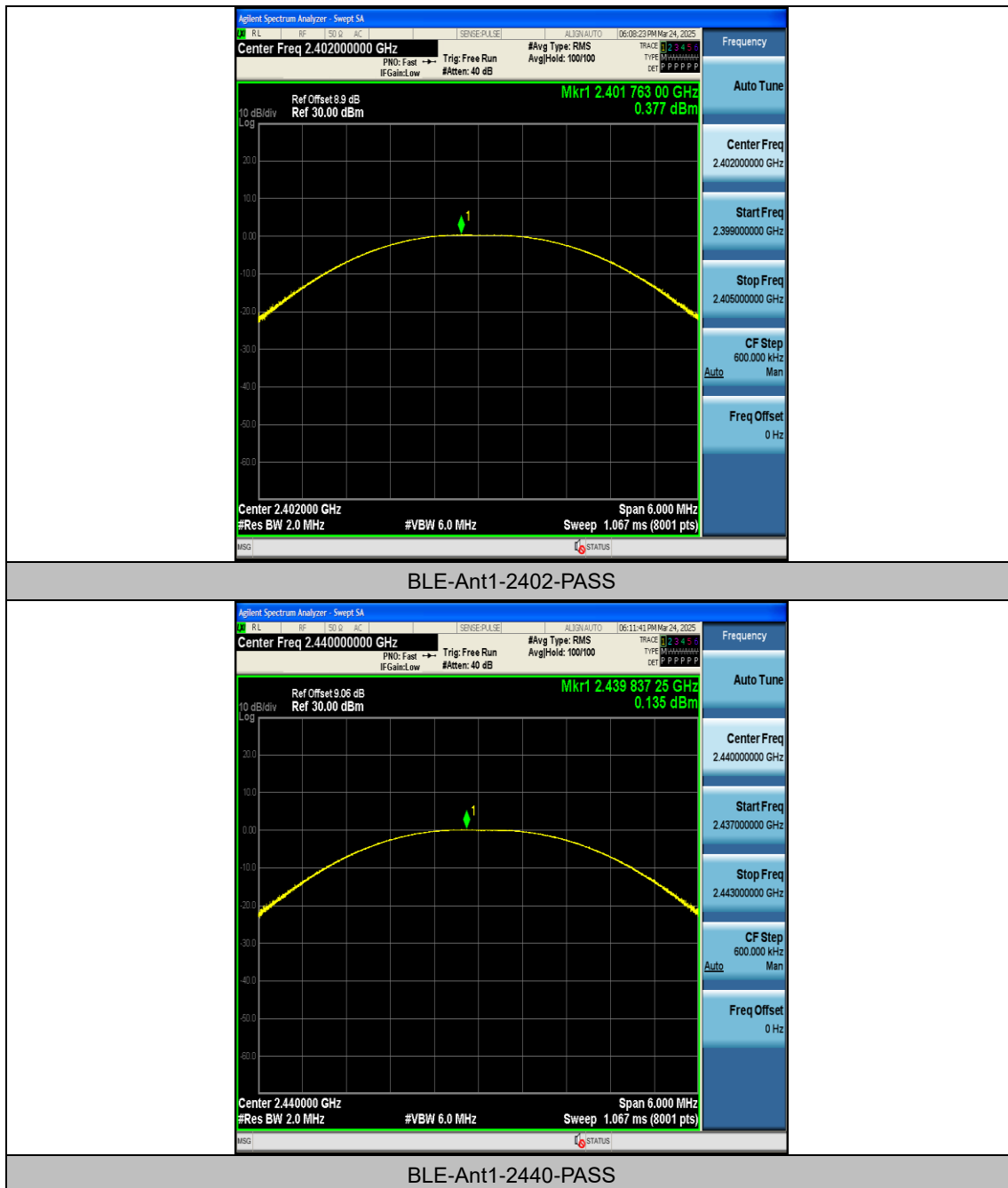


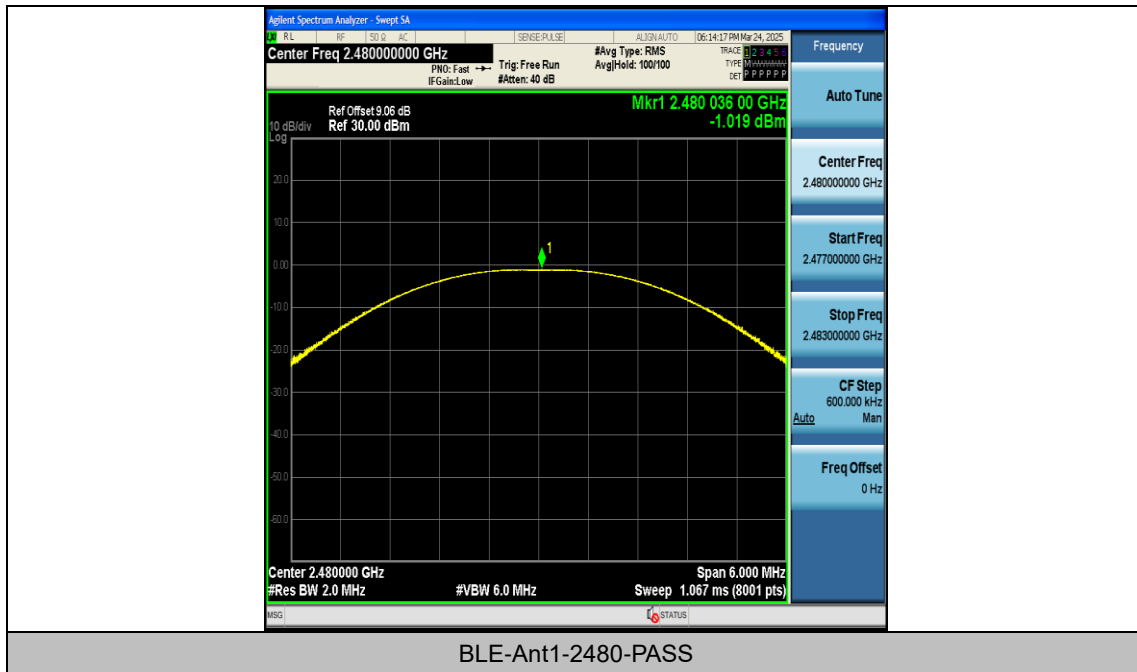
Appendix C: Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE	Ant1	2402	0.38	≤30	PASS
BLE	Ant1	2440	0.14	≤30	PASS
BLE	Ant1	2480	-1.02	≤30	PASS

Test Graphs Peak



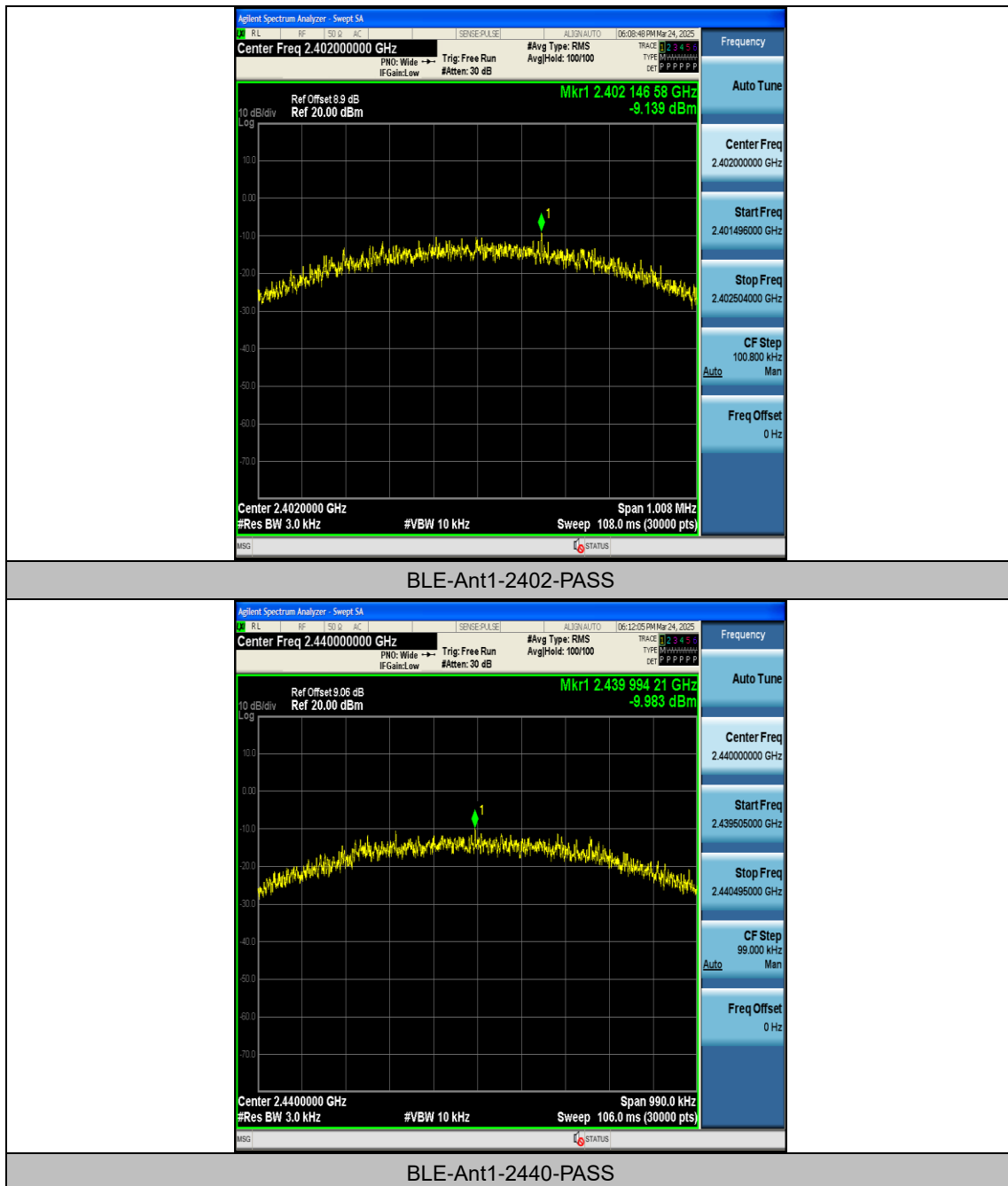


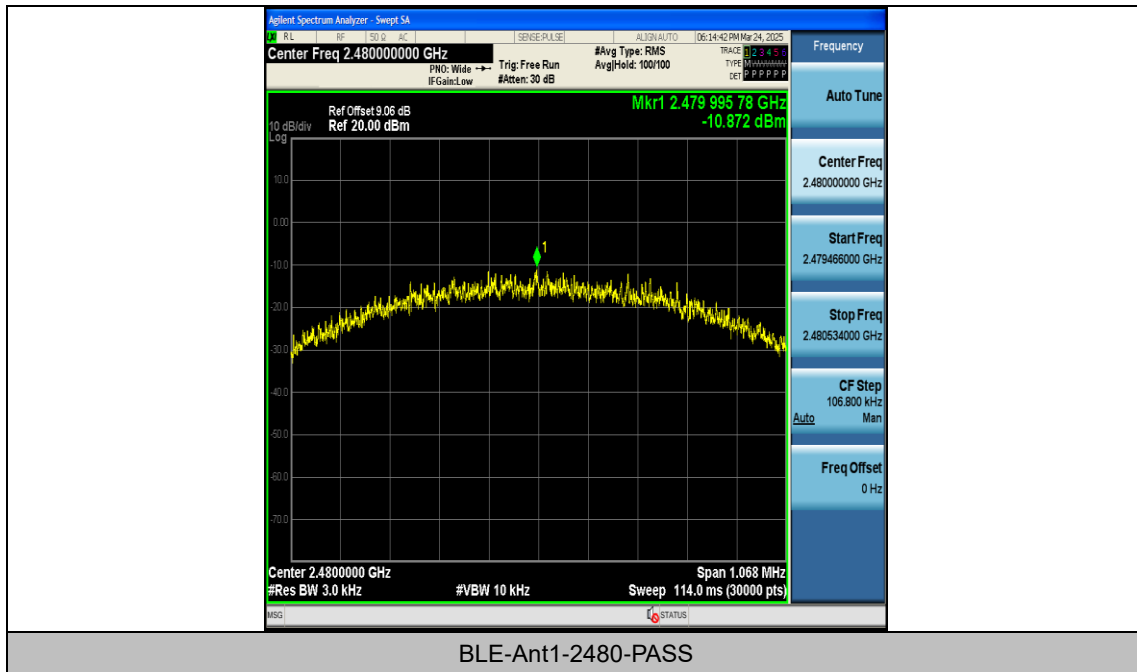
Appendix D: Maximum peak power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE	Ant1	2402	-9.14	≤8.00	PASS
BLE	Ant1	2440	-9.98	≤8.00	PASS
BLE	Ant1	2480	-10.87	≤8.00	PASS

Test Graphs



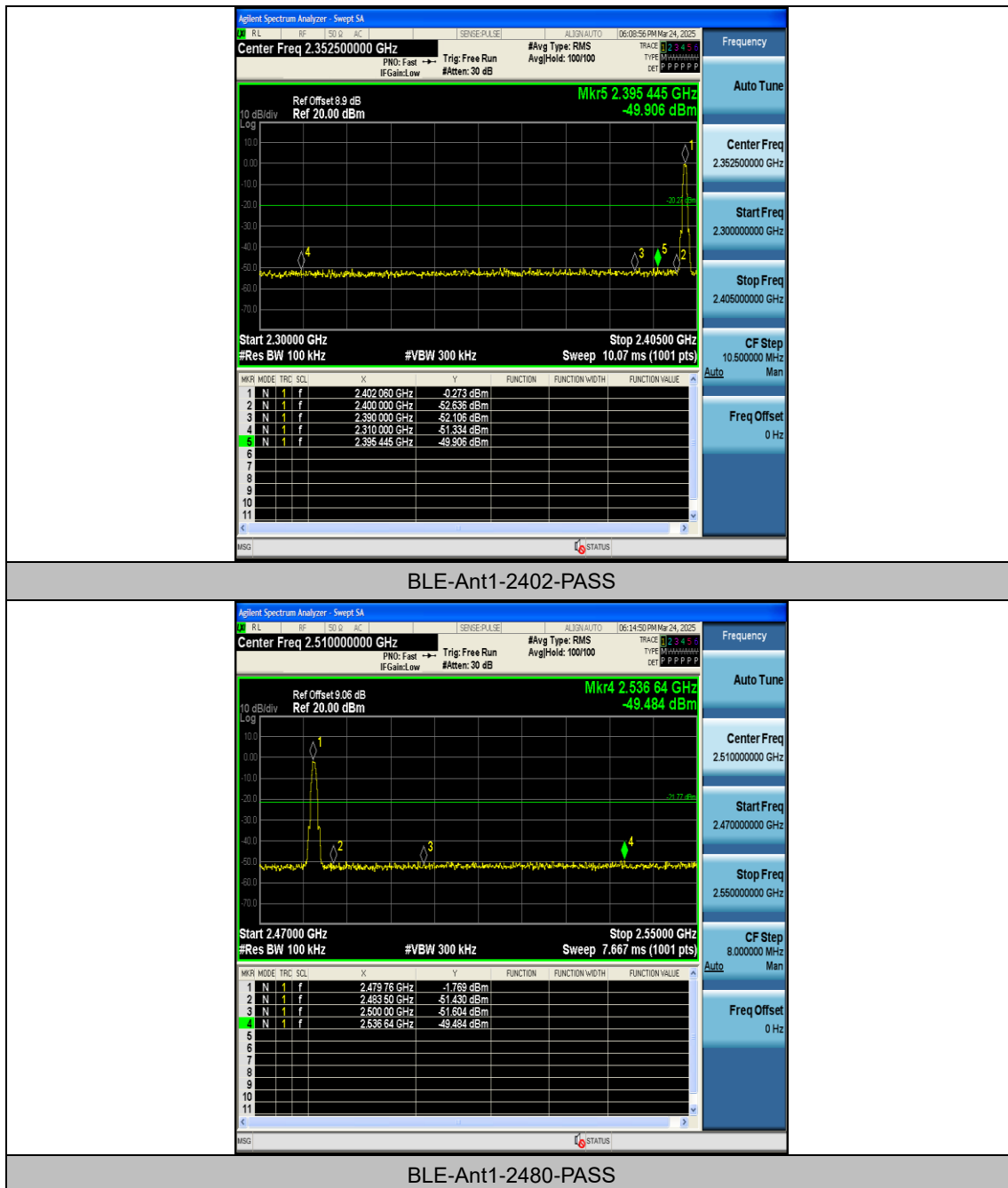


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	Low	2402	-0.27	-49.91	≤ -20.27	PASS
BLE	Ant1	High	2480	-1.77	-49.48	≤ -21.77	PASS

Test Graphs

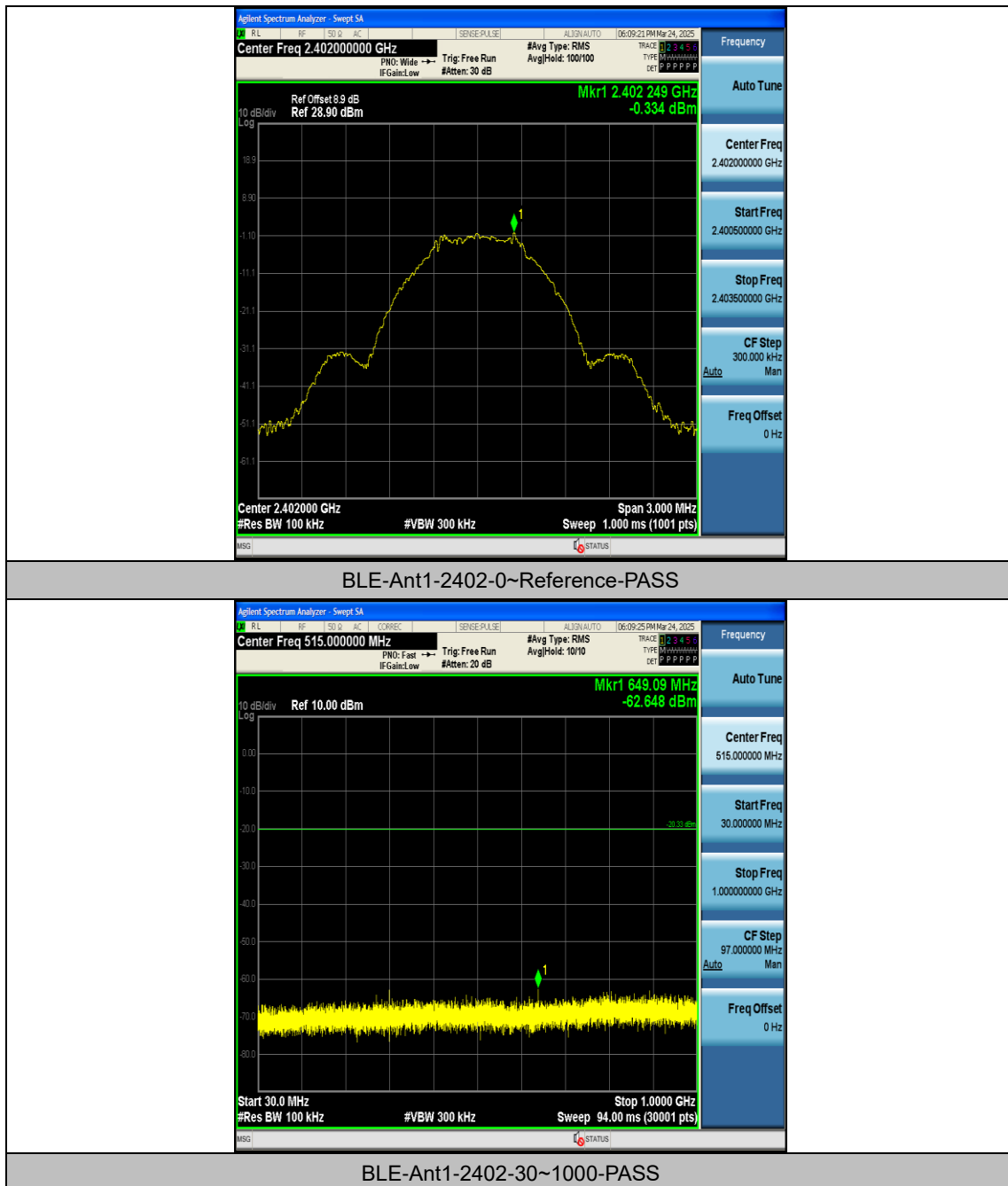


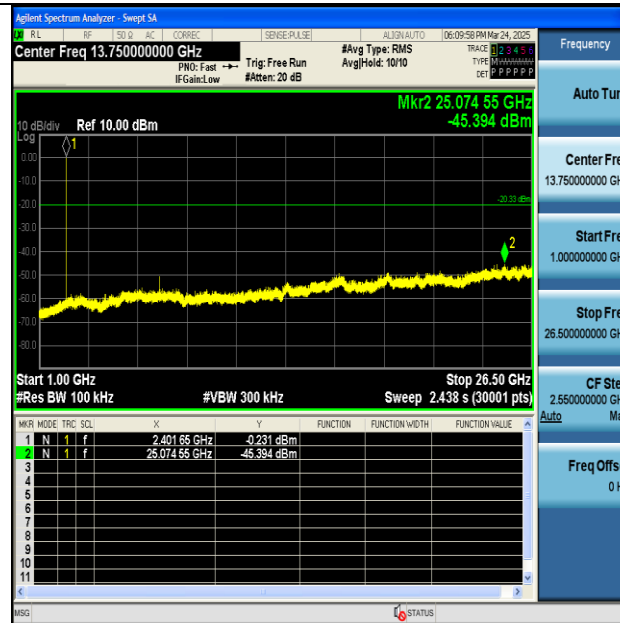
Appendix F: Conducted Spurious Emission

Test Result

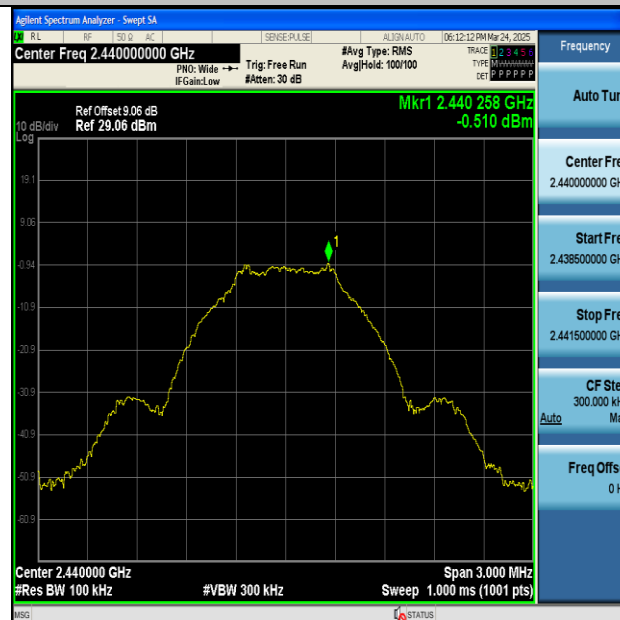
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE	Ant1	2402	0~Reference	-0.33	-0.33	---	PASS
BLE	Ant1	2402	30~1000	-0.33	-62.65	≤-20.33	PASS
BLE	Ant1	2402	1000~26500	-0.33	-45.39	≤-20.33	PASS
BLE	Ant1	2440	0~Reference	-0.51	-0.51	---	PASS
BLE	Ant1	2440	30~1000	-0.51	-62.83	≤-20.51	PASS
BLE	Ant1	2440	1000~26500	-0.51	-45.17	≤-20.51	PASS
BLE	Ant1	2480	0~Reference	-1.75	-1.75	---	PASS
BLE	Ant1	2480	30~1000	-1.75	-62.57	≤-21.75	PASS
BLE	Ant1	2480	1000~26500	-1.75	-45.13	≤-21.75	PASS

Test Graphs

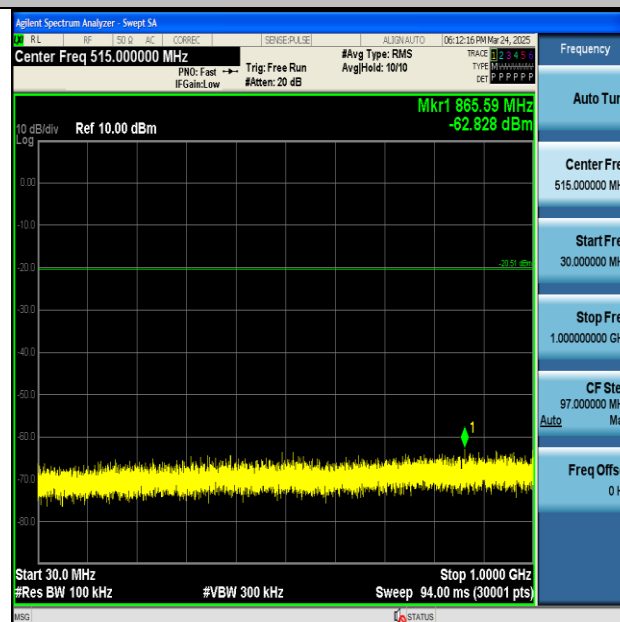




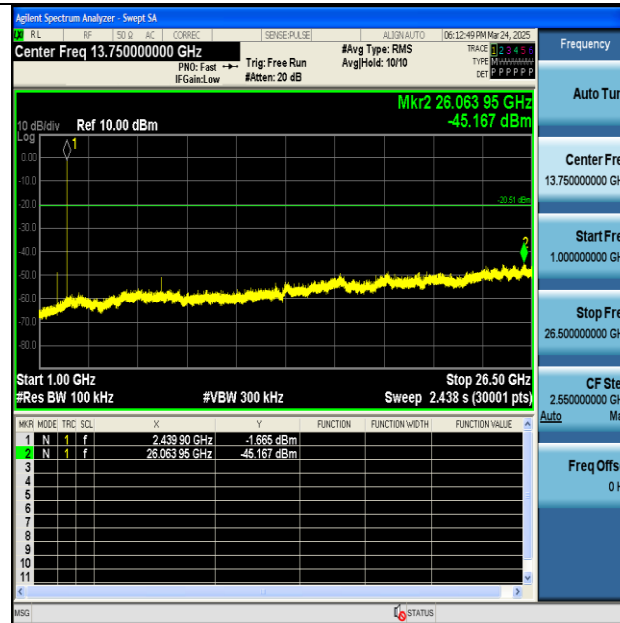
BLE-Ant1-2402-1000~26500-PASS



BLE-Ant1-2440-0~Reference-PASS



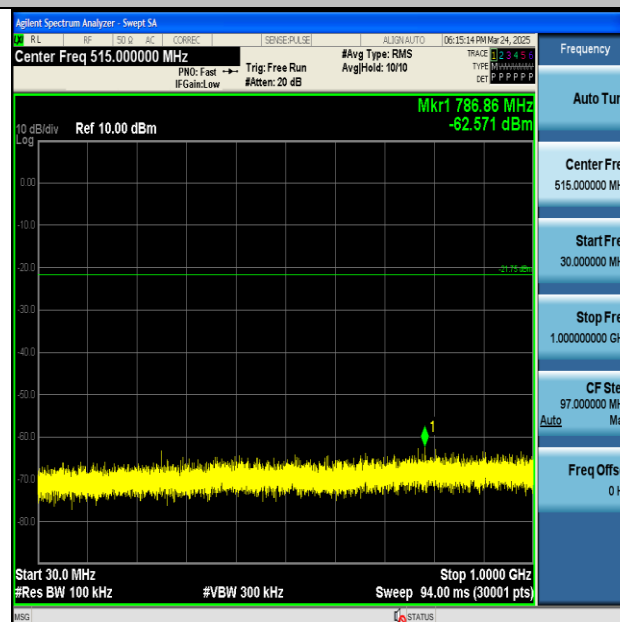
BLE-Ant1-2440-30~1000-PASS



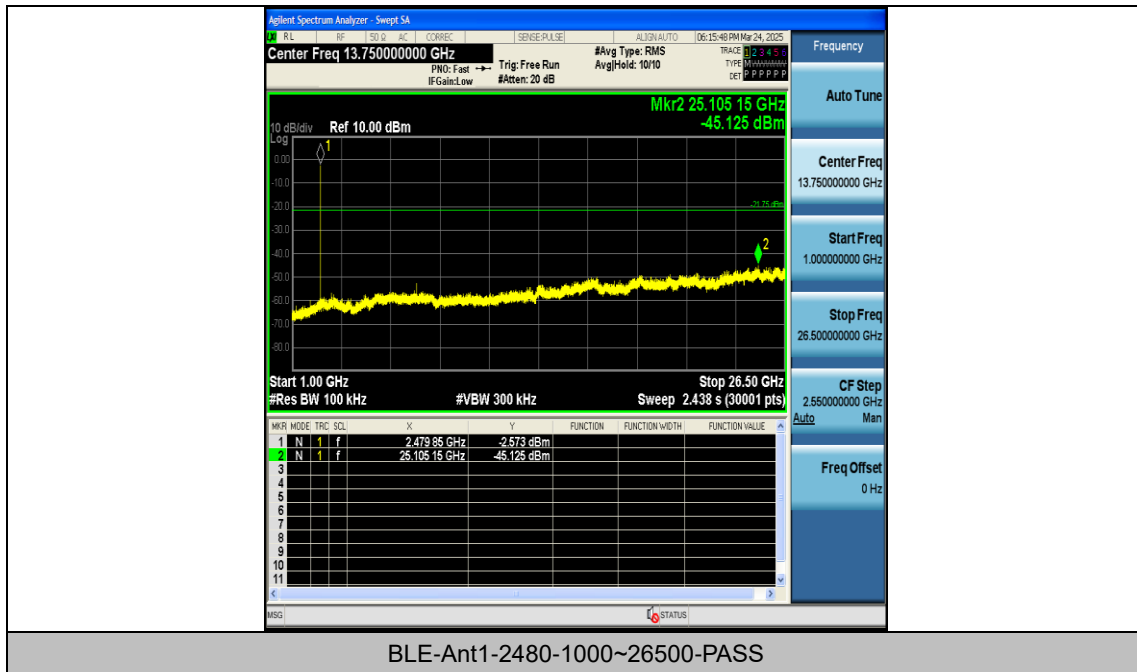
BLE-Ant1-2440-1000~26500-PASS



BLE-Ant1-2480-0~Reference-PASS



BLE-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	Ant1	2402	19.00	19.00	100.00	0.00
BLE	Ant1	2440	19.00	19.00	100.00	0.00
BLE	Ant1	2480	19.00	19.00	100.00	0.00

Test Graphs

