

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Bluetooth Smart Scale

Trade Mark: TAYLOR

Test Model: 5316487

FCC ID: 2AJ5E-5316487

Environmental Conditions

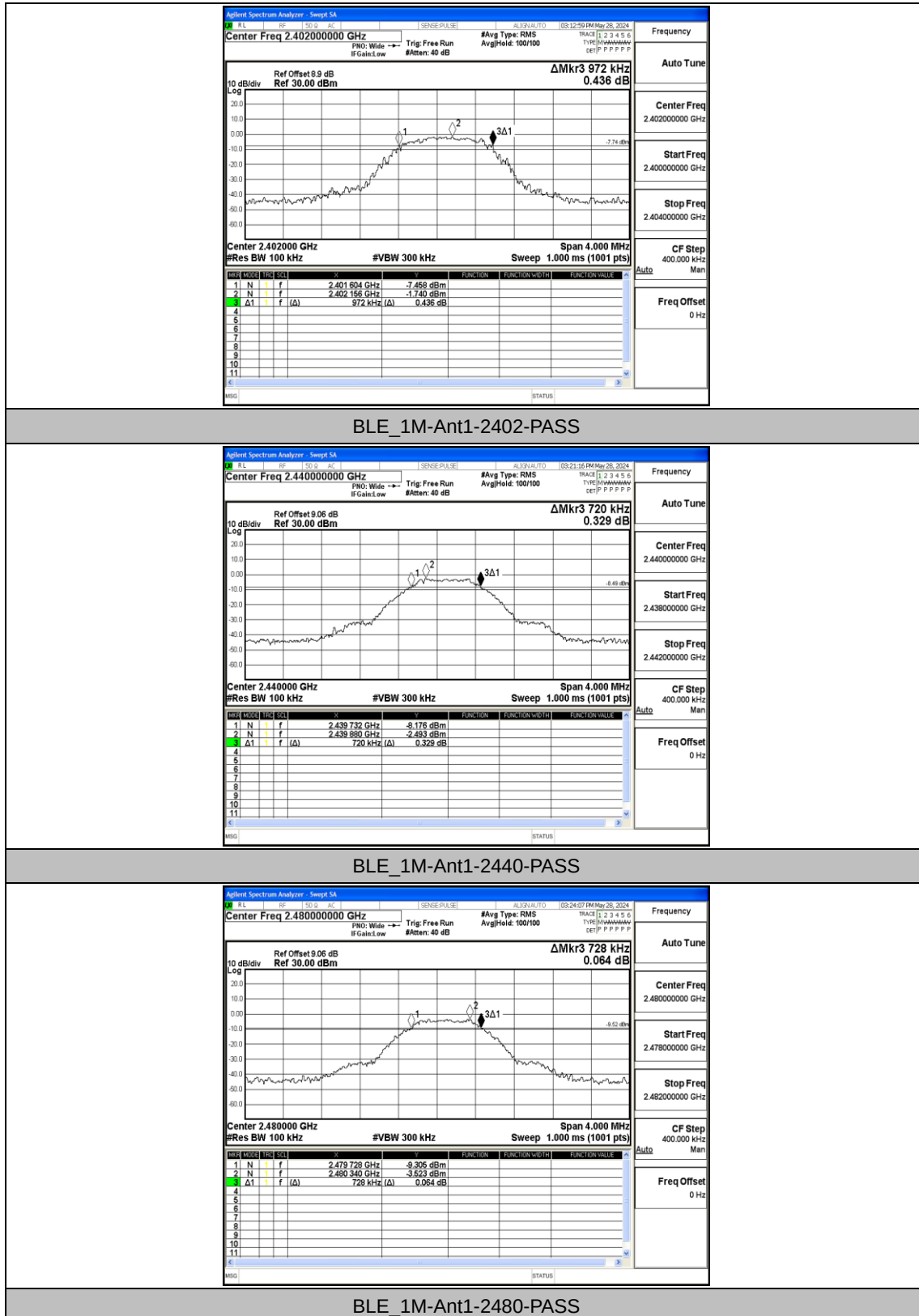
Temperature:	22.8°C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

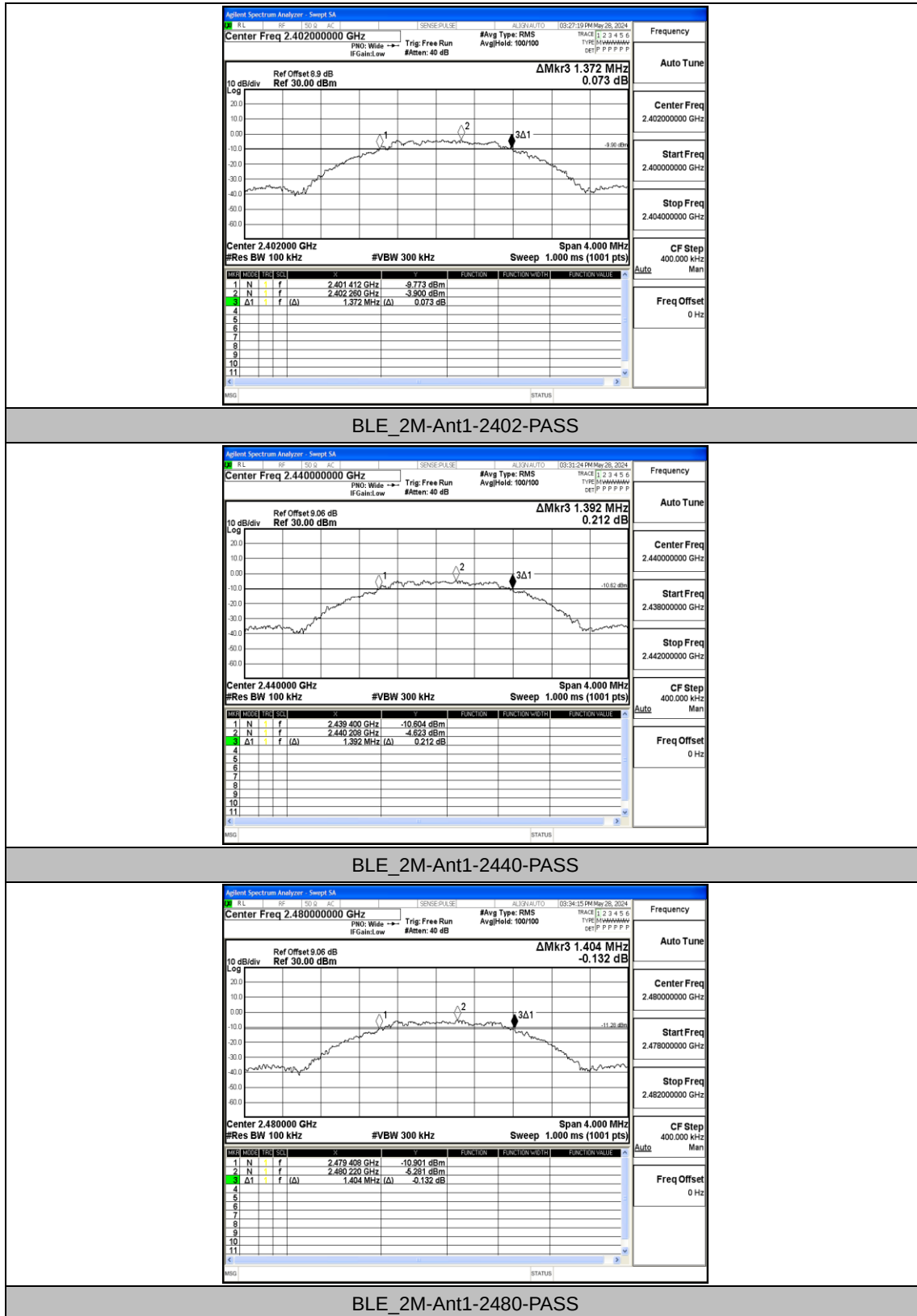
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.972	2401.604	2402.576	0.5	PASS
BLE_1M	Ant1	2440	0.720	2439.732	2440.452	0.5	PASS
BLE_1M	Ant1	2480	0.728	2479.728	2480.456	0.5	PASS
BLE_2M	Ant1	2402	1.372	2401.412	2402.784	0.5	PASS
BLE_2M	Ant1	2440	1.392	2439.400	2440.792	0.5	PASS
BLE_2M	Ant1	2480	1.404	2479.408	2480.812	0.5	PASS

Test Graphs



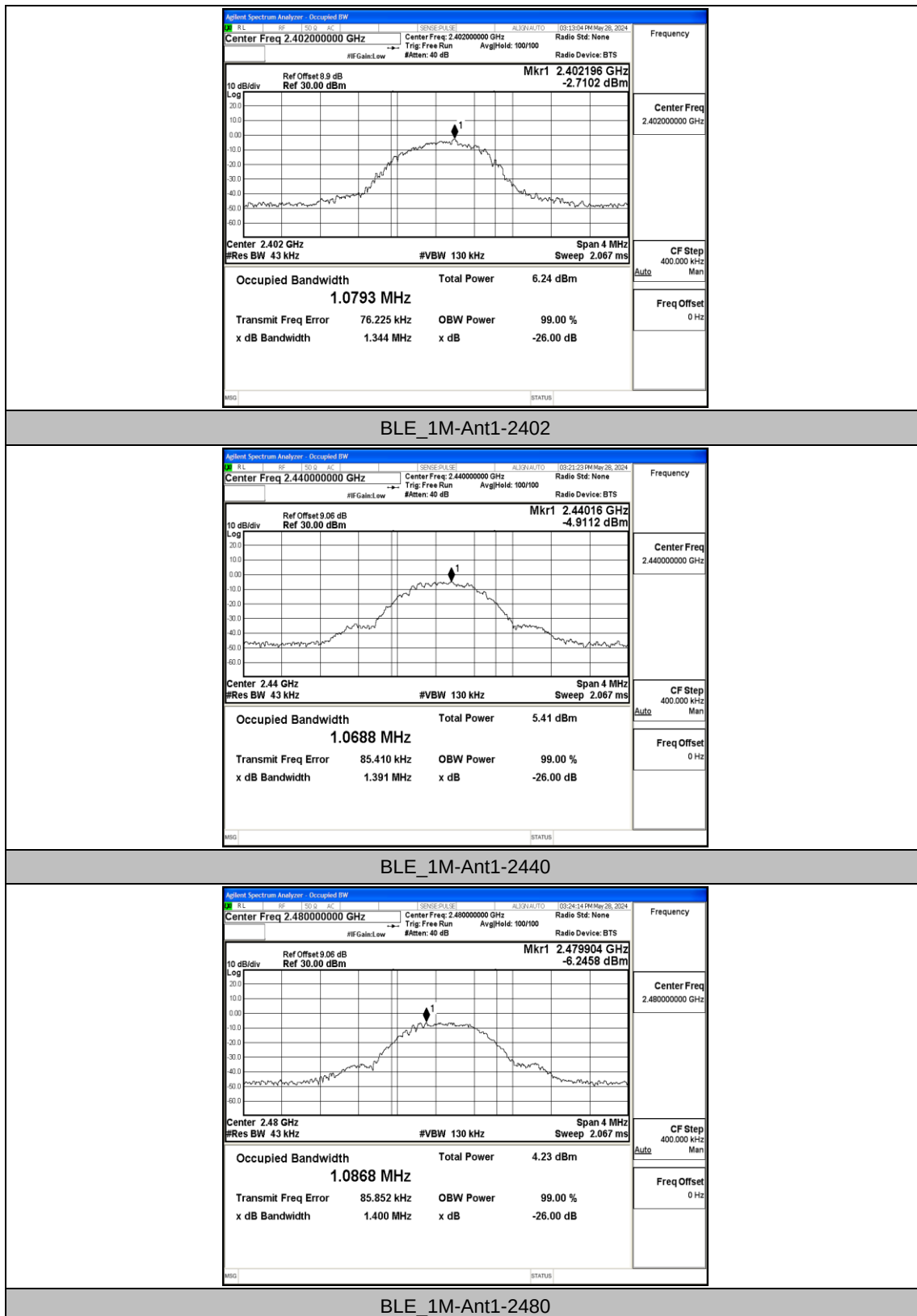


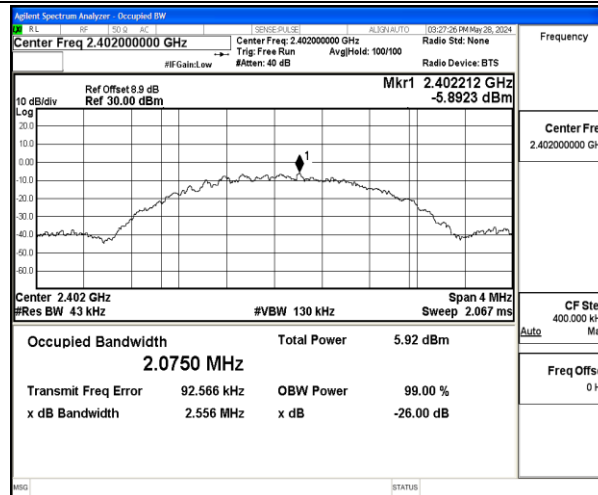
Appendix B: Occupied Channel Bandwidth

Test Result

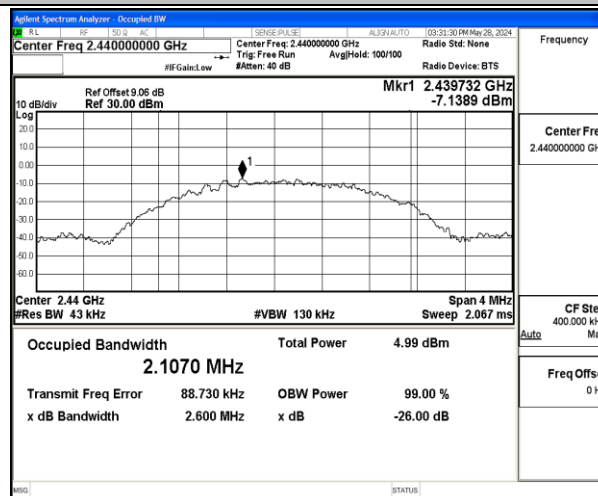
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0793	2401.5366	2402.6159	---	---
BLE_1M	Ant1	2440	1.0688	2439.5510	2440.6198	---	---
BLE_1M	Ant1	2480	1.0868	2479.5425	2480.6293	---	---
BLE_2M	Ant1	2402	2.0750	2401.0551	2403.1301	---	---
BLE_2M	Ant1	2440	2.1070	2439.0352	2441.1422	---	---
BLE_2M	Ant1	2480	2.0894	2479.0522	2481.1416	---	---

Test Graphs

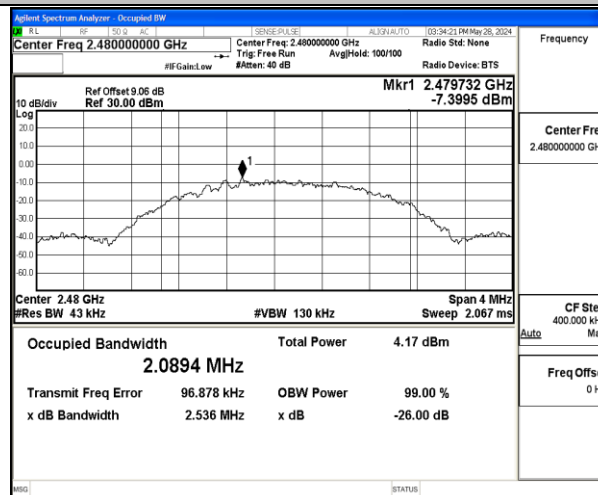




BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



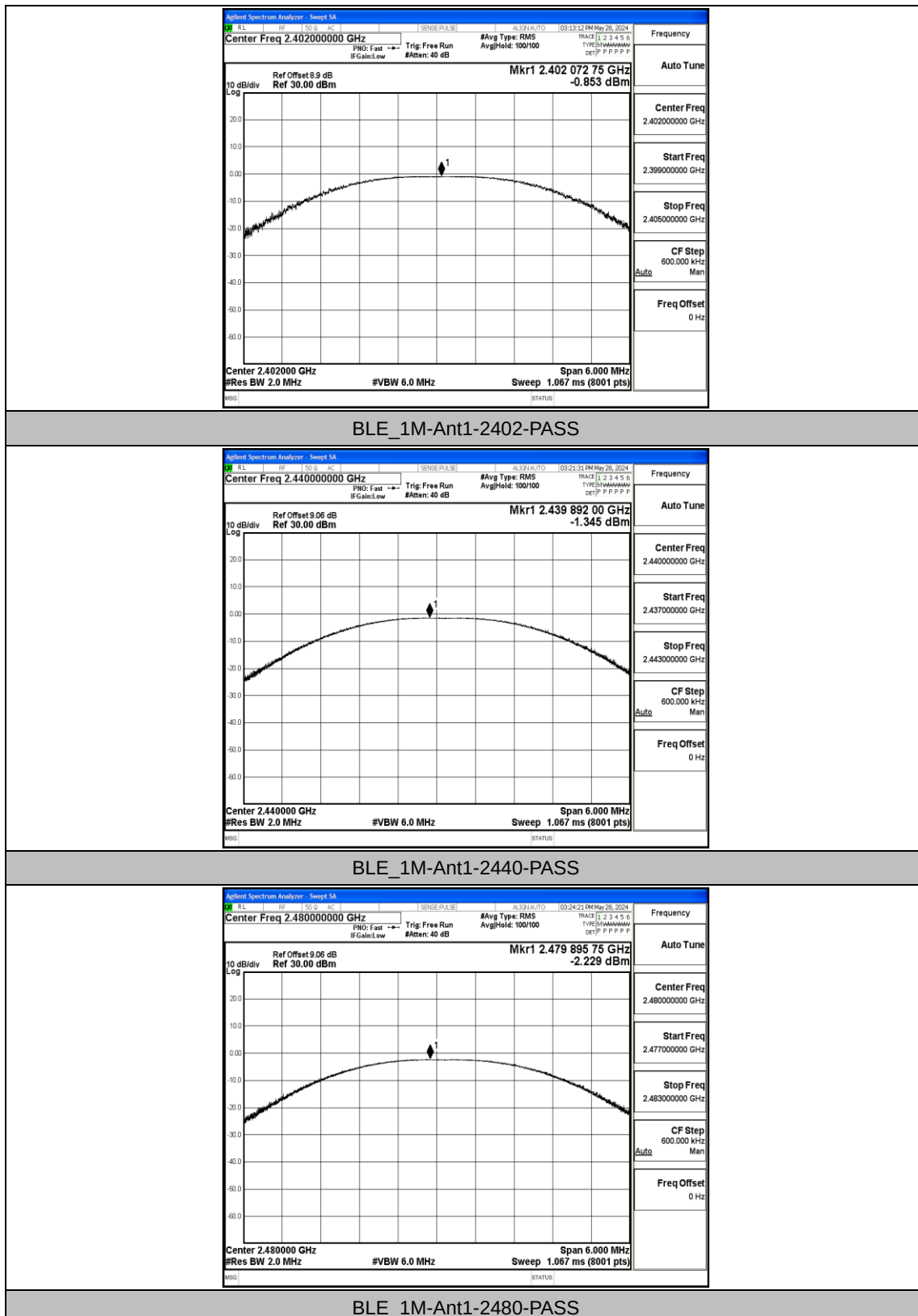
BLE_2M-Ant1-2480

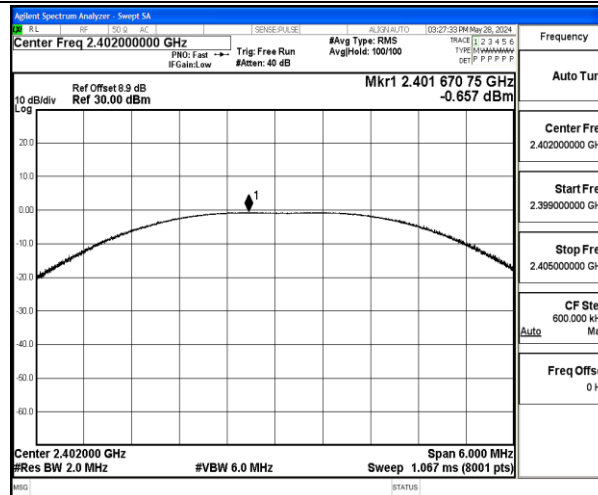
Appendix C: Maximum peak conducted output power

Test Result Peak

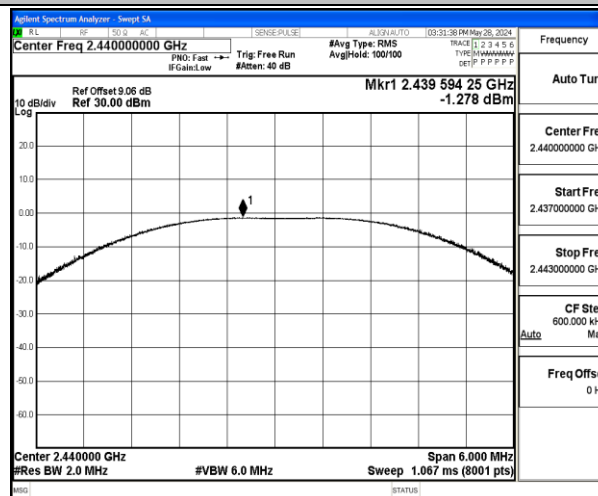
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.85	≤30	PASS
BLE_1M	Ant1	2440	-1.35	≤30	PASS
BLE_1M	Ant1	2480	-2.23	≤30	PASS
BLE_2M	Ant1	2402	-0.66	≤30	PASS
BLE_2M	Ant1	2440	-1.28	≤30	PASS
BLE_2M	Ant1	2480	-2.11	≤30	PASS

Test Graphs Peak

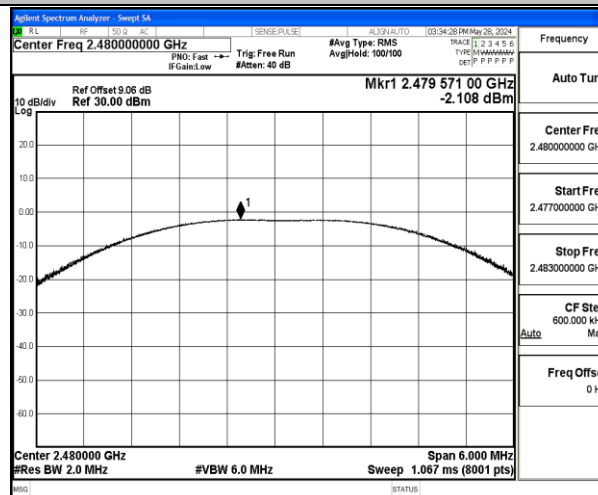




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



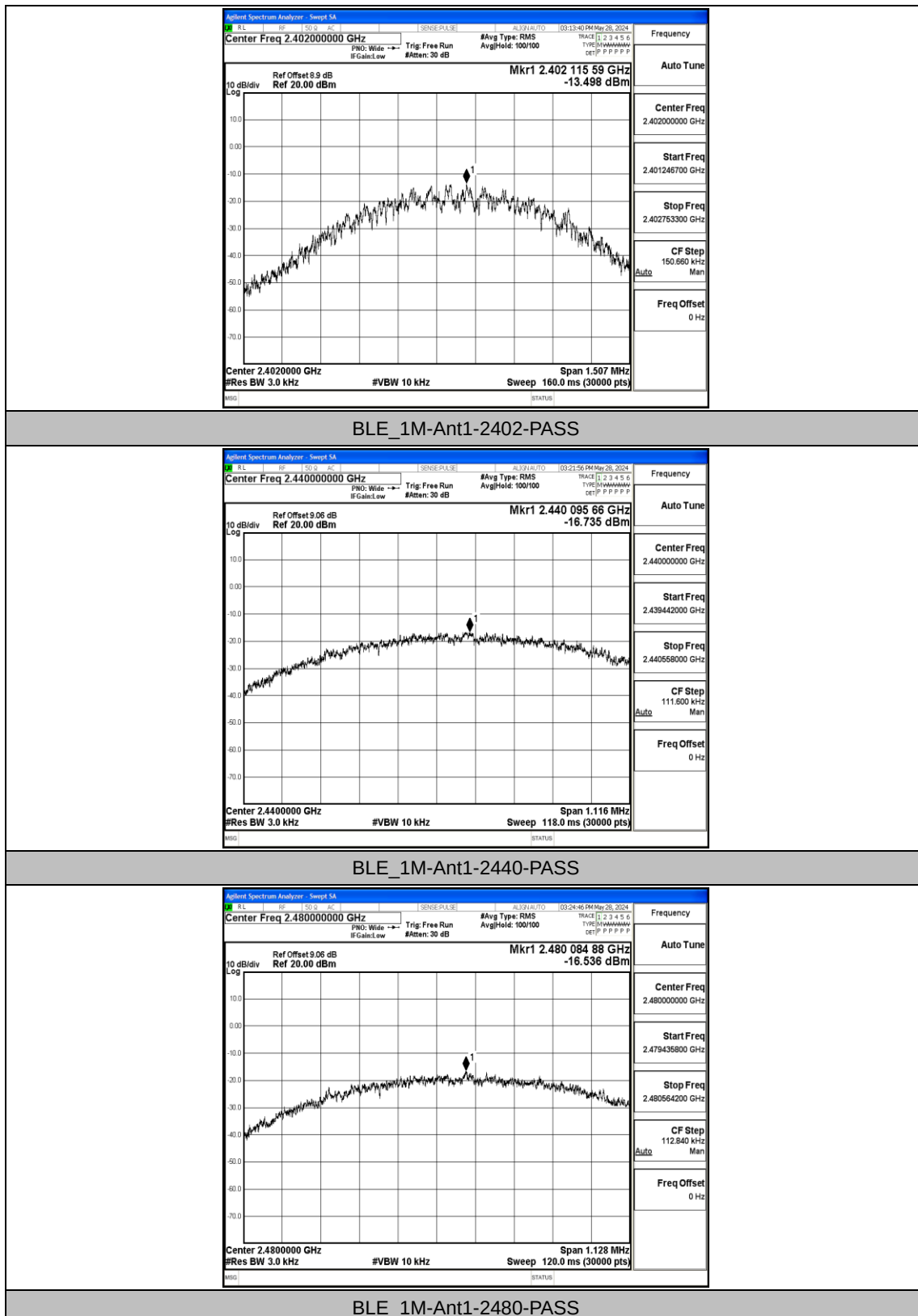
BLE_2M-Ant1-2480-PASS

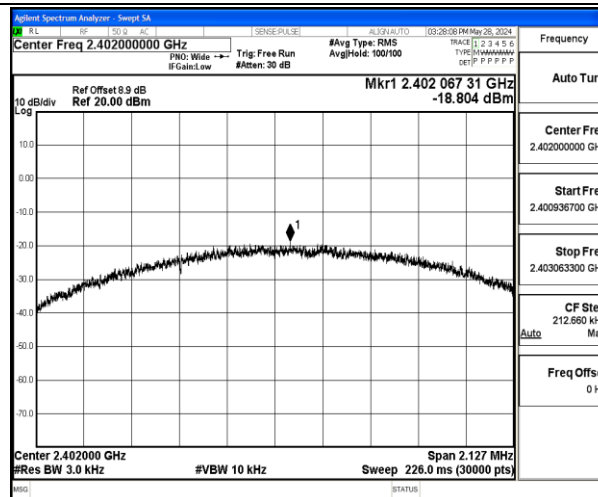
Appendix D: Maximum peak power spectral density

Test Result

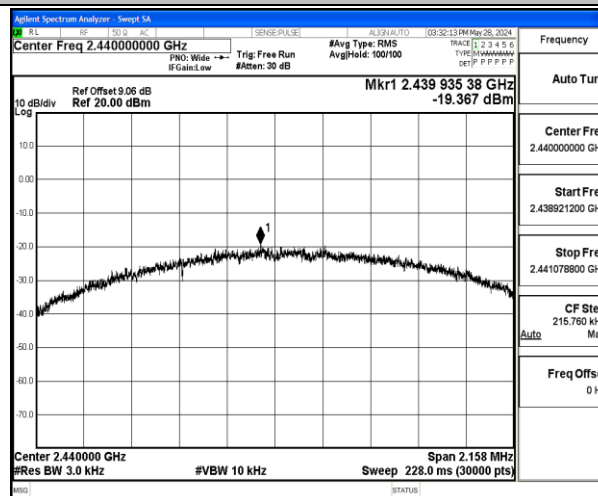
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.50	≤8.00	PASS
BLE_1M	Ant1	2440	-16.74	≤8.00	PASS
BLE_1M	Ant1	2480	-16.54	≤8.00	PASS
BLE_2M	Ant1	2402	-18.80	≤8.00	PASS
BLE_2M	Ant1	2440	-19.37	≤8.00	PASS
BLE_2M	Ant1	2480	-20.47	≤8.00	PASS

Test Graphs

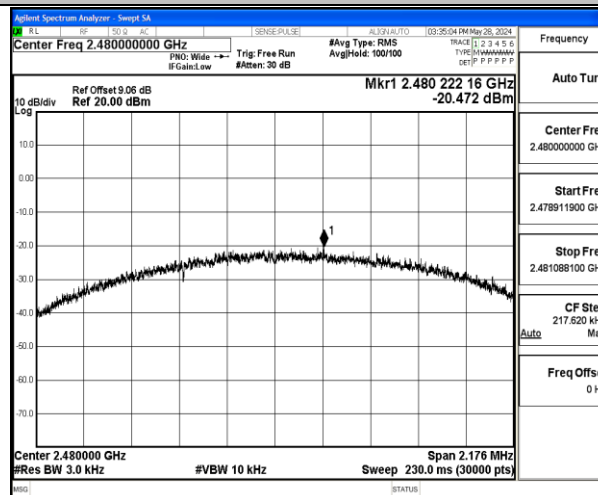




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



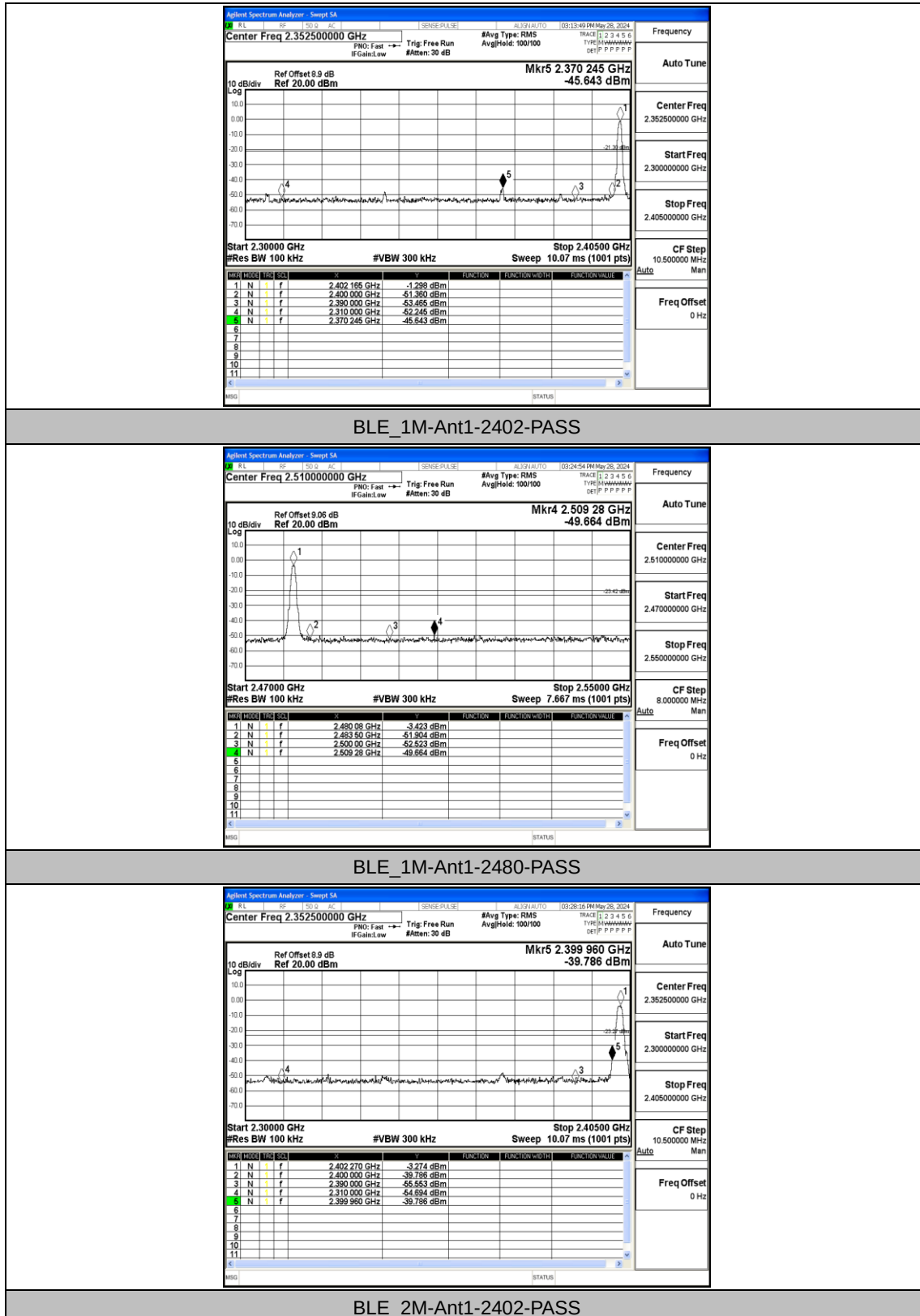
BLE_2M-Ant1-2480-PASS

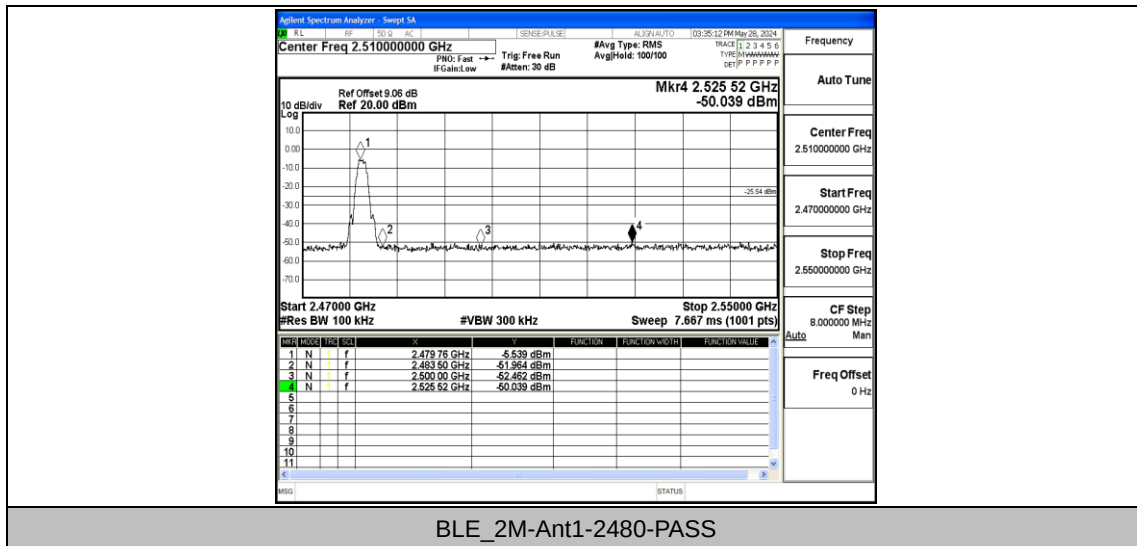
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.30	-45.64	≤-21.3	PASS
BLE_1M	Ant1	High	2480	-3.42	-49.66	≤-23.42	PASS
BLE_2M	Ant1	Low	2402	-3.27	-39.79	≤-23.27	PASS
BLE_2M	Ant1	High	2480	-5.54	-50.04	≤-25.54	PASS

Test Graphs



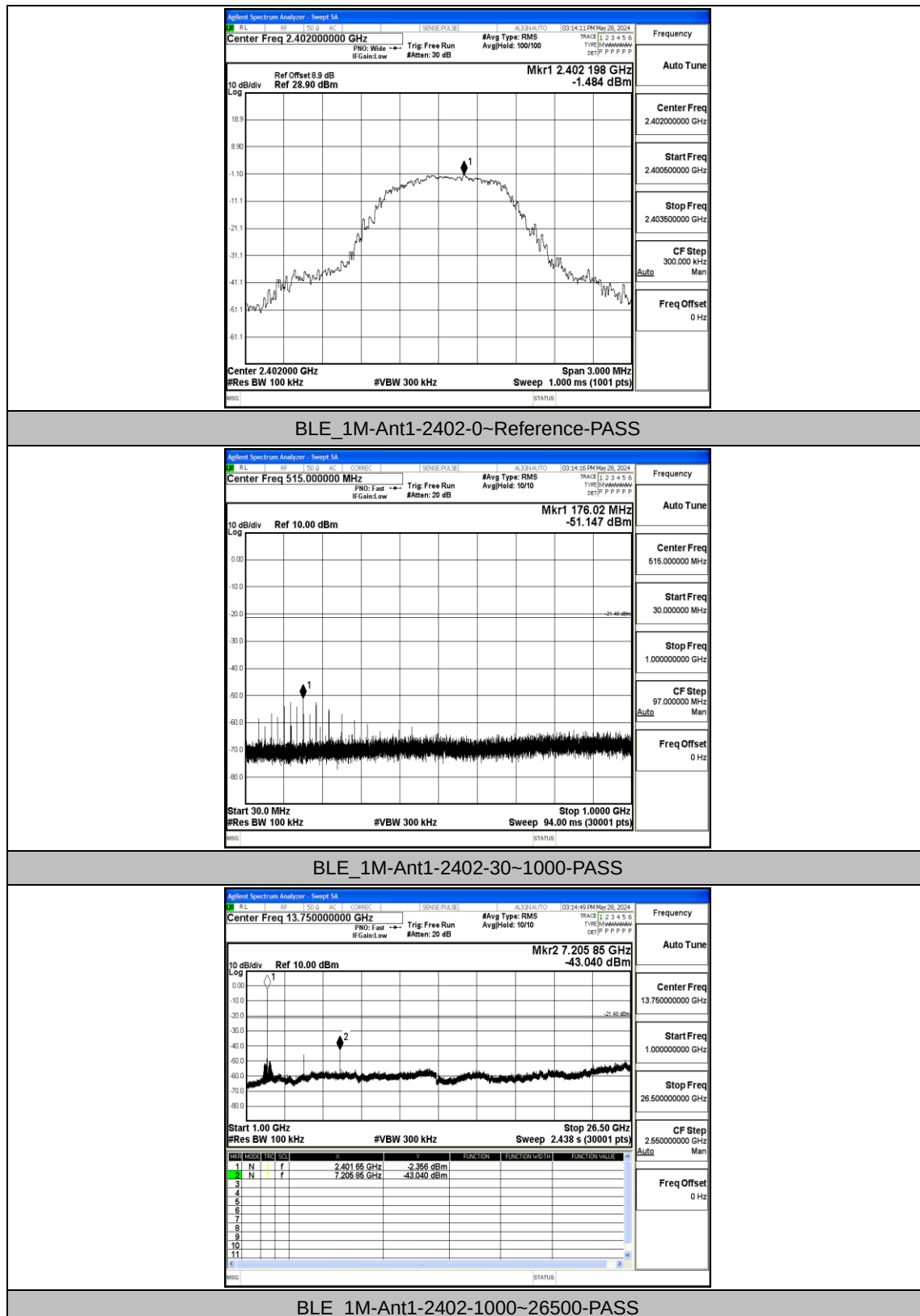


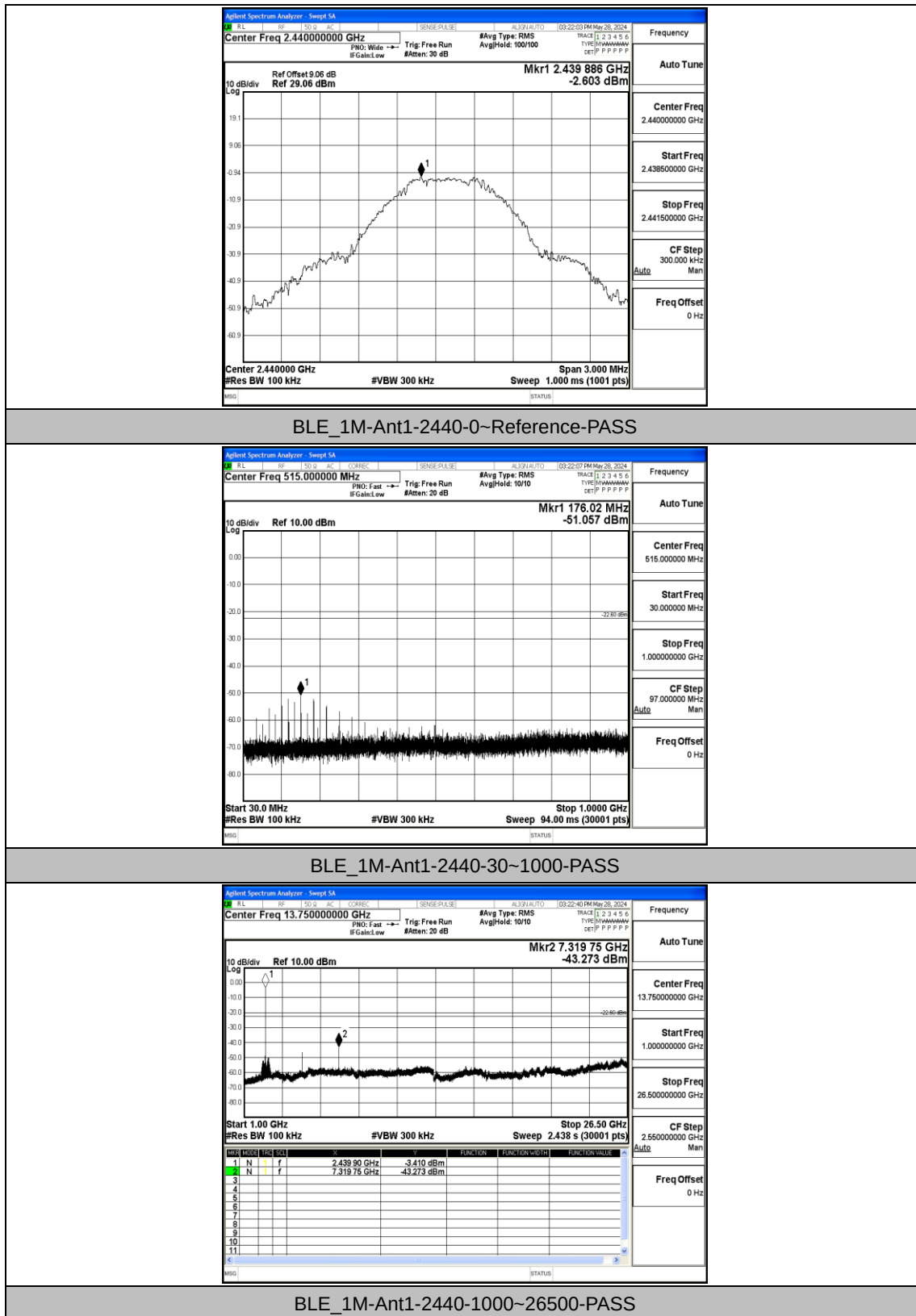
Appendix F: Conducted Spurious Emission

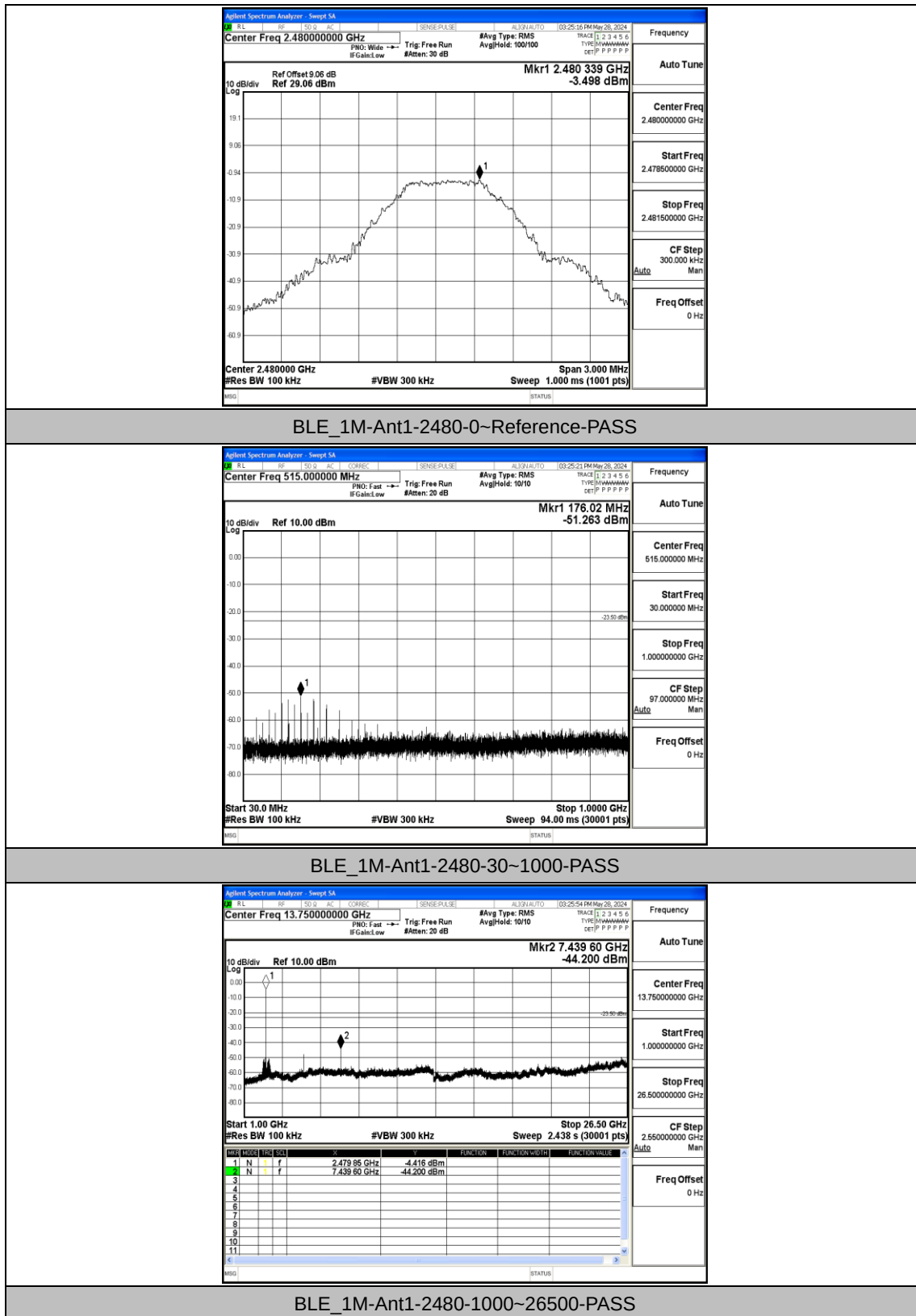
Test Result

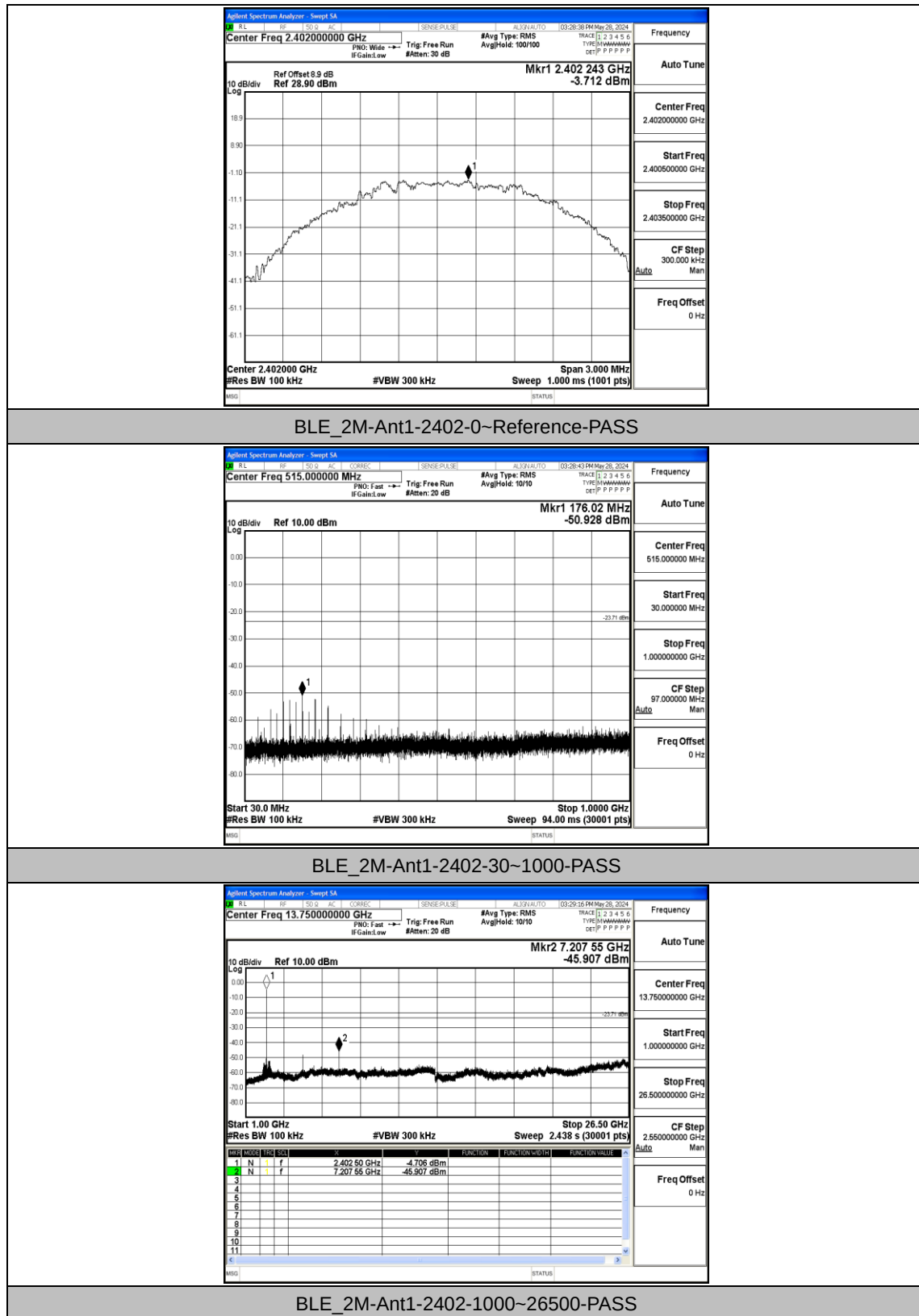
TestMod e	Antenn a	Frequency[MHz]	FreqRange [MHz]	RefLeve l [dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	2402	0~Referenc e	-1.48	-1.48	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.48	-51.15	≤-21.48	PASS
BLE_1M	Ant1	2402	1000~26500	-1.48	-43.04	≤-21.48	PASS
BLE_1M	Ant1	2440	0~Referenc e	-2.60	-2.60	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.60	-51.06	≤-22.6	PASS
BLE_1M	Ant1	2440	1000~26500	-2.60	-43.27	≤-22.6	PASS
BLE_1M	Ant1	2480	0~Referenc e	-3.50	-3.50	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.50	-51.26	≤-23.5	PASS
BLE_1M	Ant1	2480	1000~26500	-3.50	-44.2	≤-23.5	PASS
BLE_2M	Ant1	2402	0~Referenc e	-3.71	-3.71	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.71	-50.93	≤-23.71	PASS
BLE_2M	Ant1	2402	1000~26500	-3.71	-45.91	≤-23.71	PASS
BLE_2M	Ant1	2440	0~Referenc e	-4.33	-4.33	---	PASS
BLE_2M	Ant1	2440	30~1000	-4.33	-51.18	≤-24.33	PASS
BLE_2M	Ant1	2440	1000~26500	-4.33	-47.14	≤-24.33	PASS
BLE_2M	Ant1	2480	0~Referenc e	-5.57	-5.57	---	PASS
BLE_2M	Ant1	2480	30~1000	-5.57	-50.89	≤-25.57	PASS
BLE_2M	Ant1	2480	1000~26500	-5.57	-48.02	≤-25.57	PASS

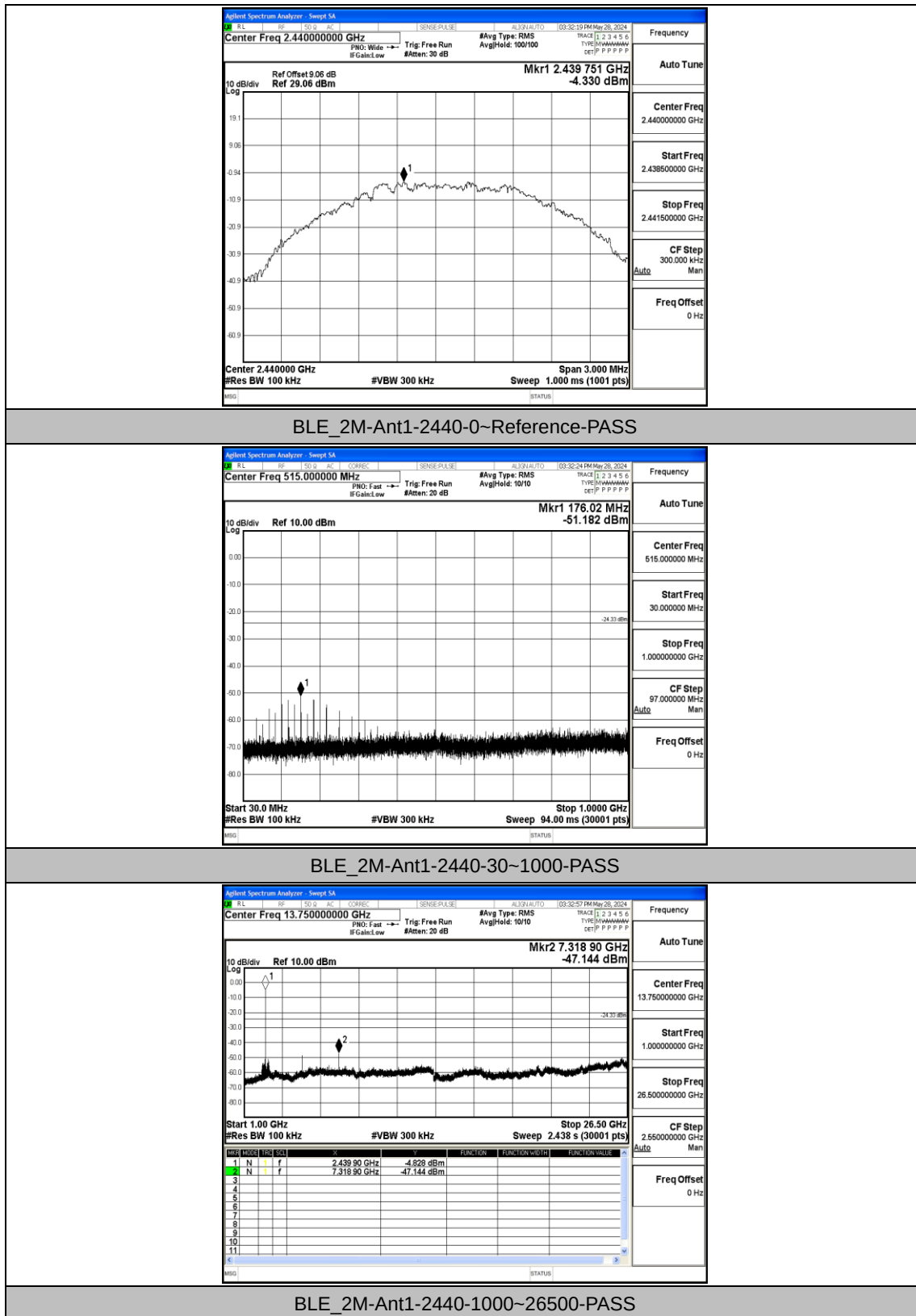
Test Graphs

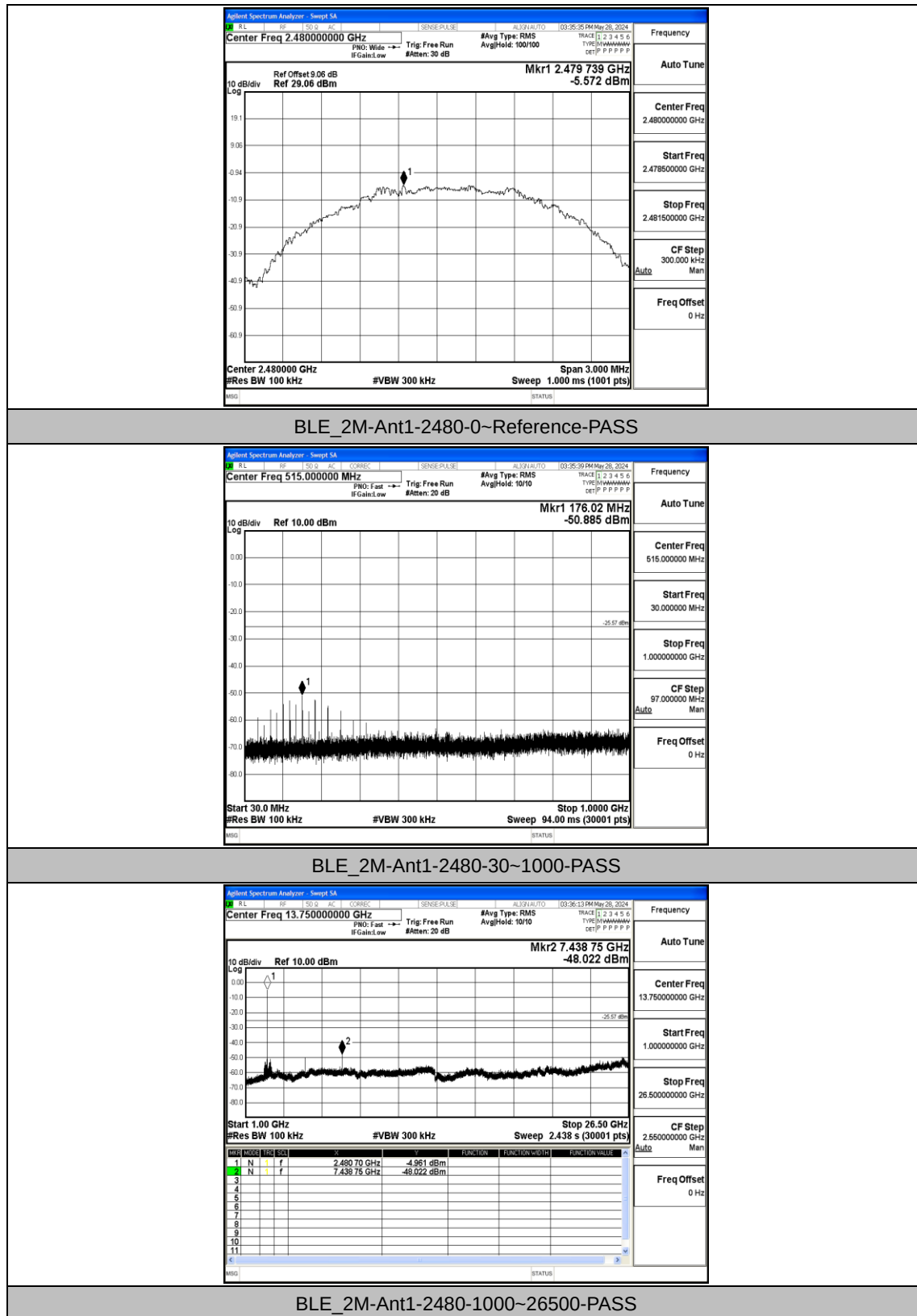












Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2480	19.00	19.00	100.00	0.00

Test Graphs

