

Appendix Test Data for BLE (Conducted Measurement)

Product Name: RIIZE OFFICIAL FANLIGHT

Trade Mark: N/A

Test Model: SME-RIIZE-OFL01

FCC ID: 2AS3Z-SME-RIIZE01

Environmental Conditions

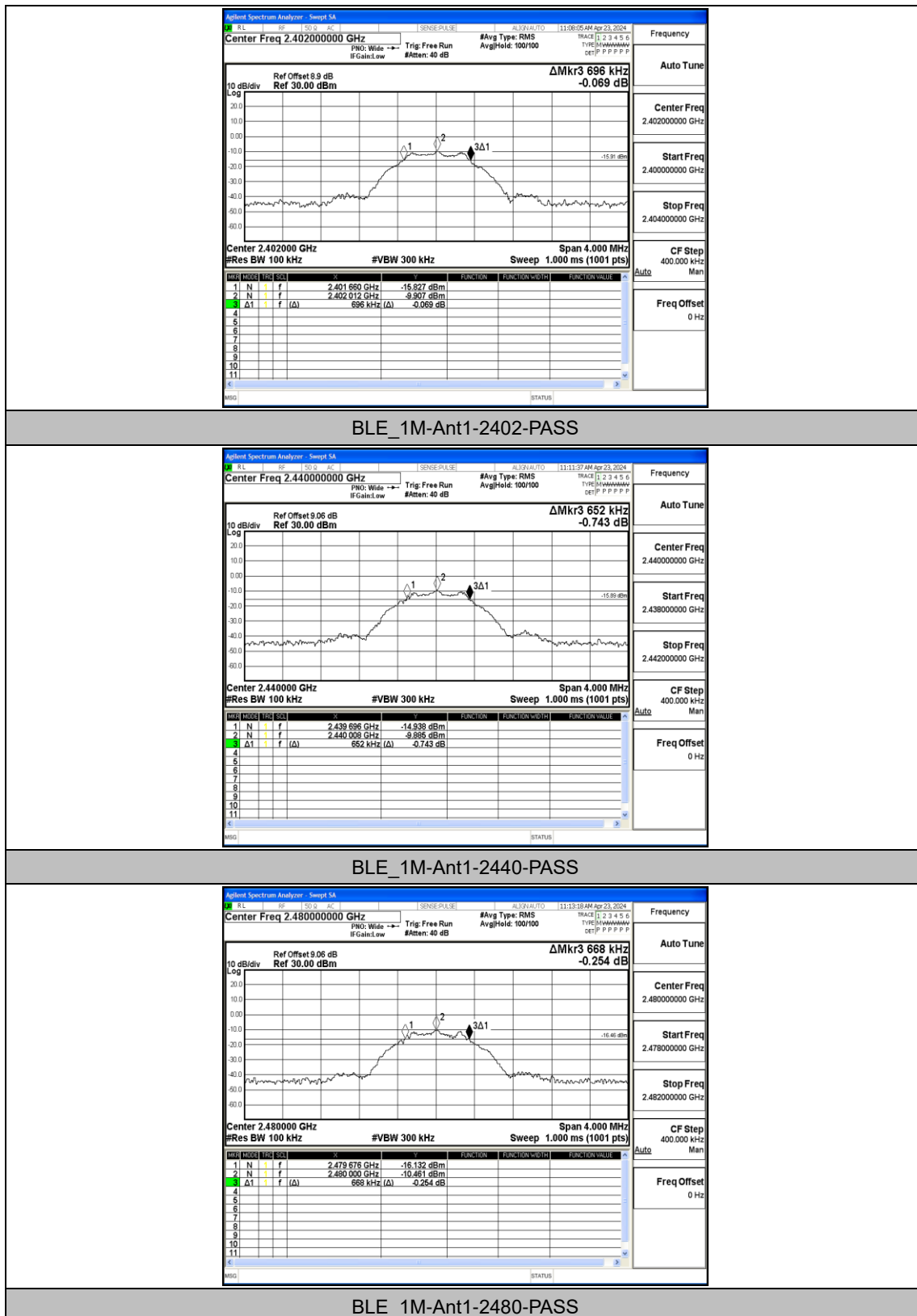
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.660	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.696	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.676	2480.344	0.5	PASS

Test Graphs

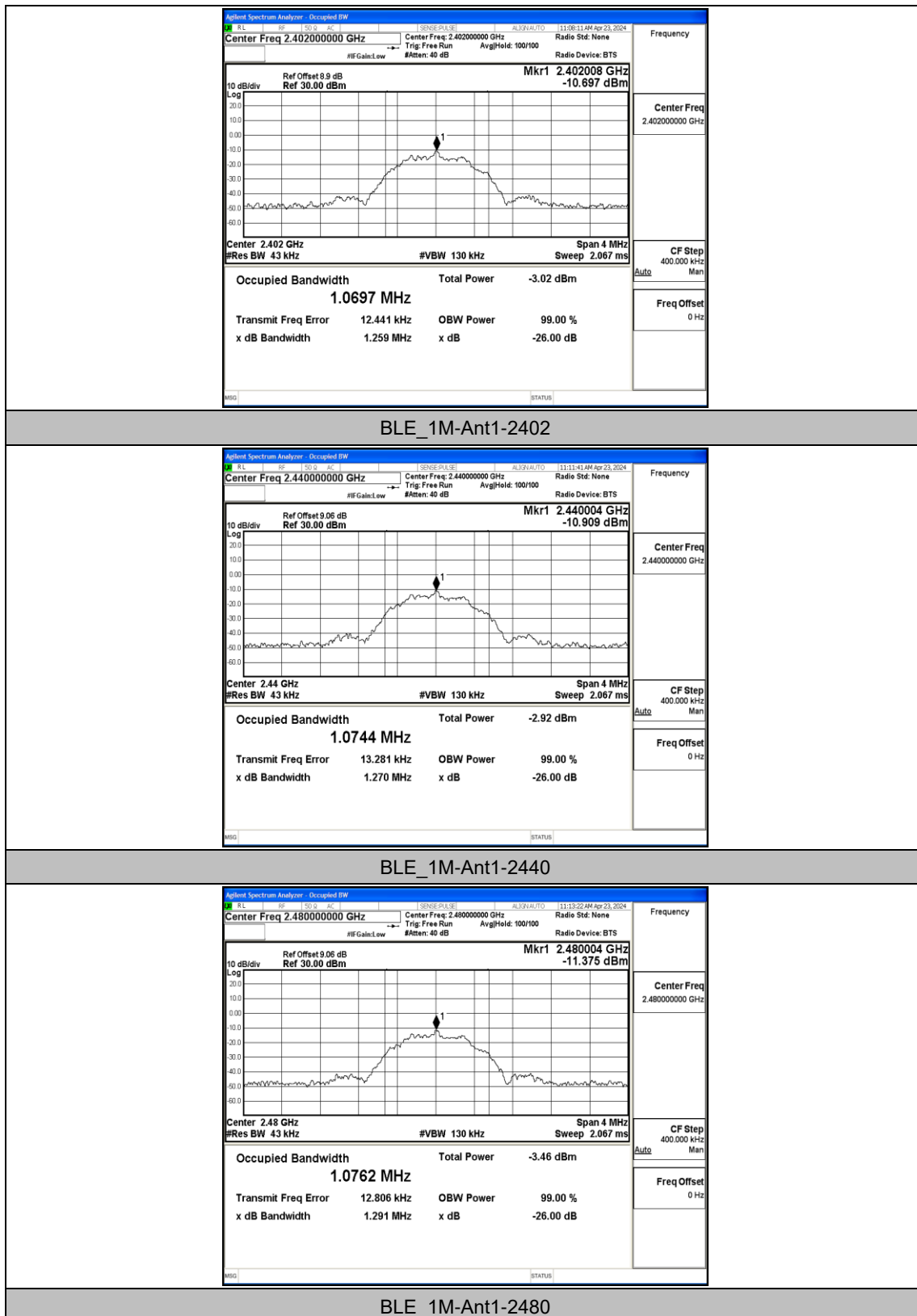


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0697	2401.4776	2402.5473	---	---
BLE_1M	Ant1	2440	1.0744	2439.4761	2440.5505	---	---
BLE_1M	Ant1	2480	1.0762	2479.4747	2480.5509	---	---

Test Graphs

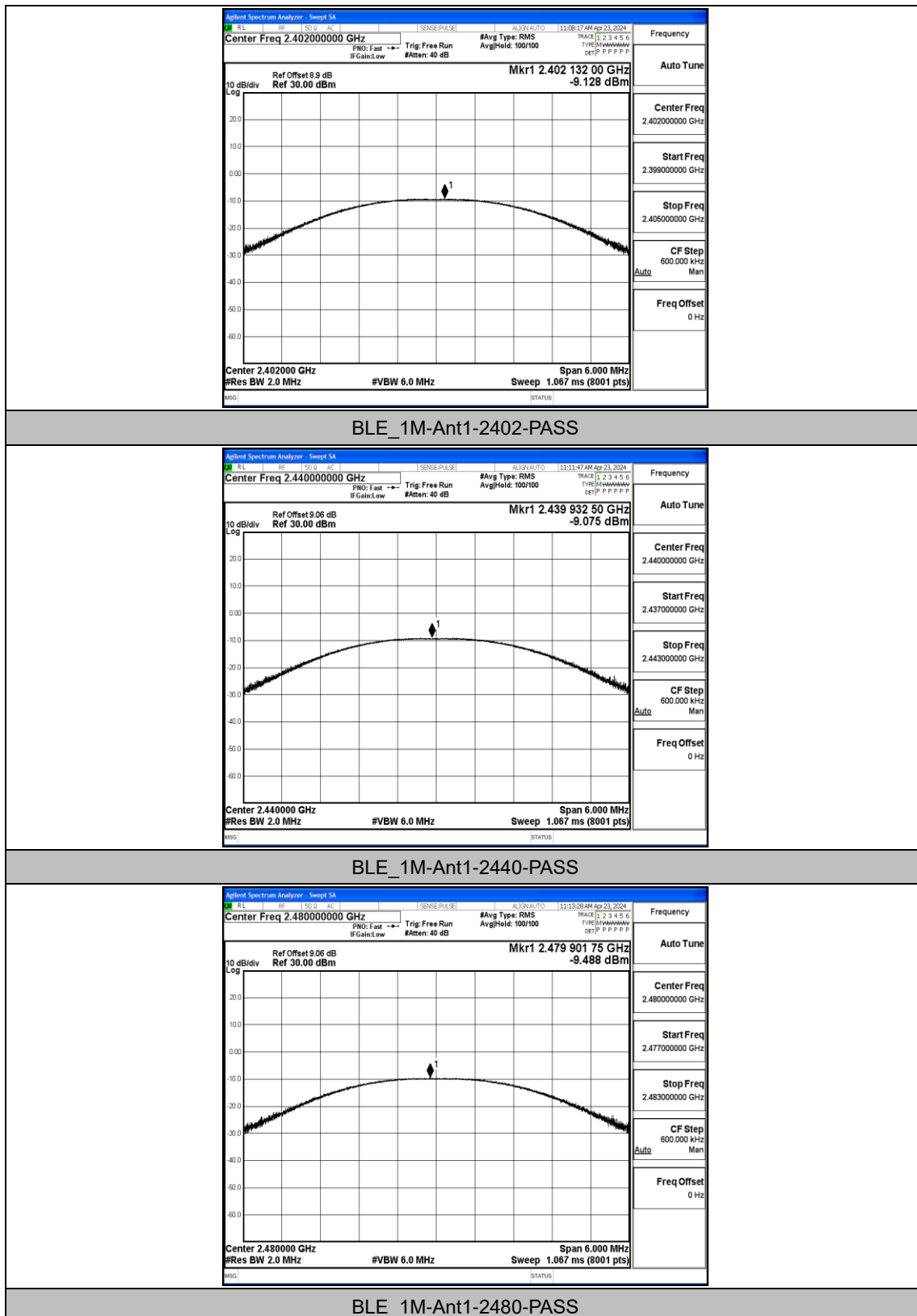


Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-9.13	≤30	PASS
BLE_1M	Ant1	2440	-9.08	≤30	PASS
BLE_1M	Ant1	2480	-9.49	≤30	PASS

Test Graphs Peak

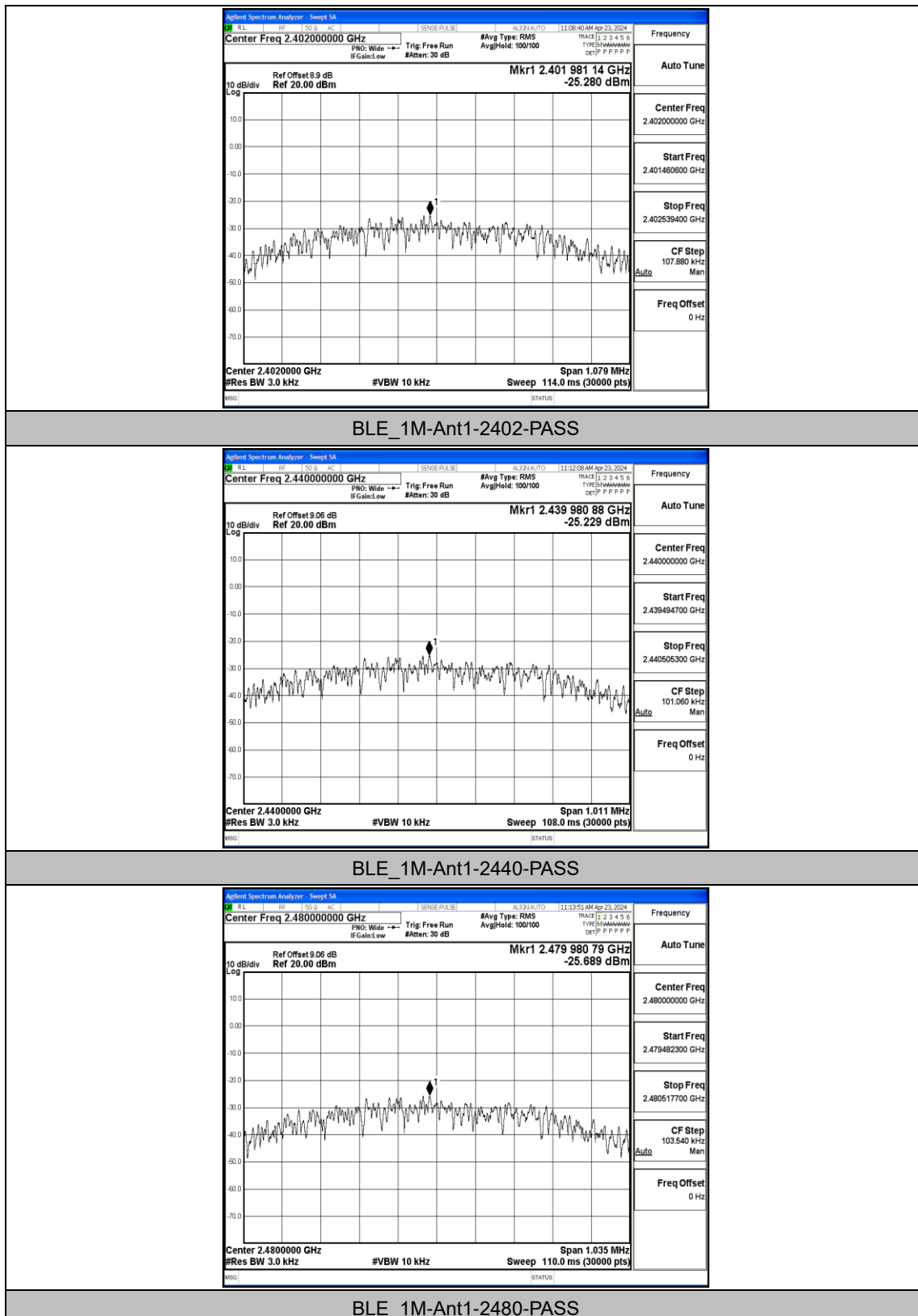


Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-25.28	≤8.00	PASS
BLE_1M	Ant1	2440	-25.23	≤8.00	PASS
BLE_1M	Ant1	2480	-25.69	≤8.00	PASS

Test Graphs

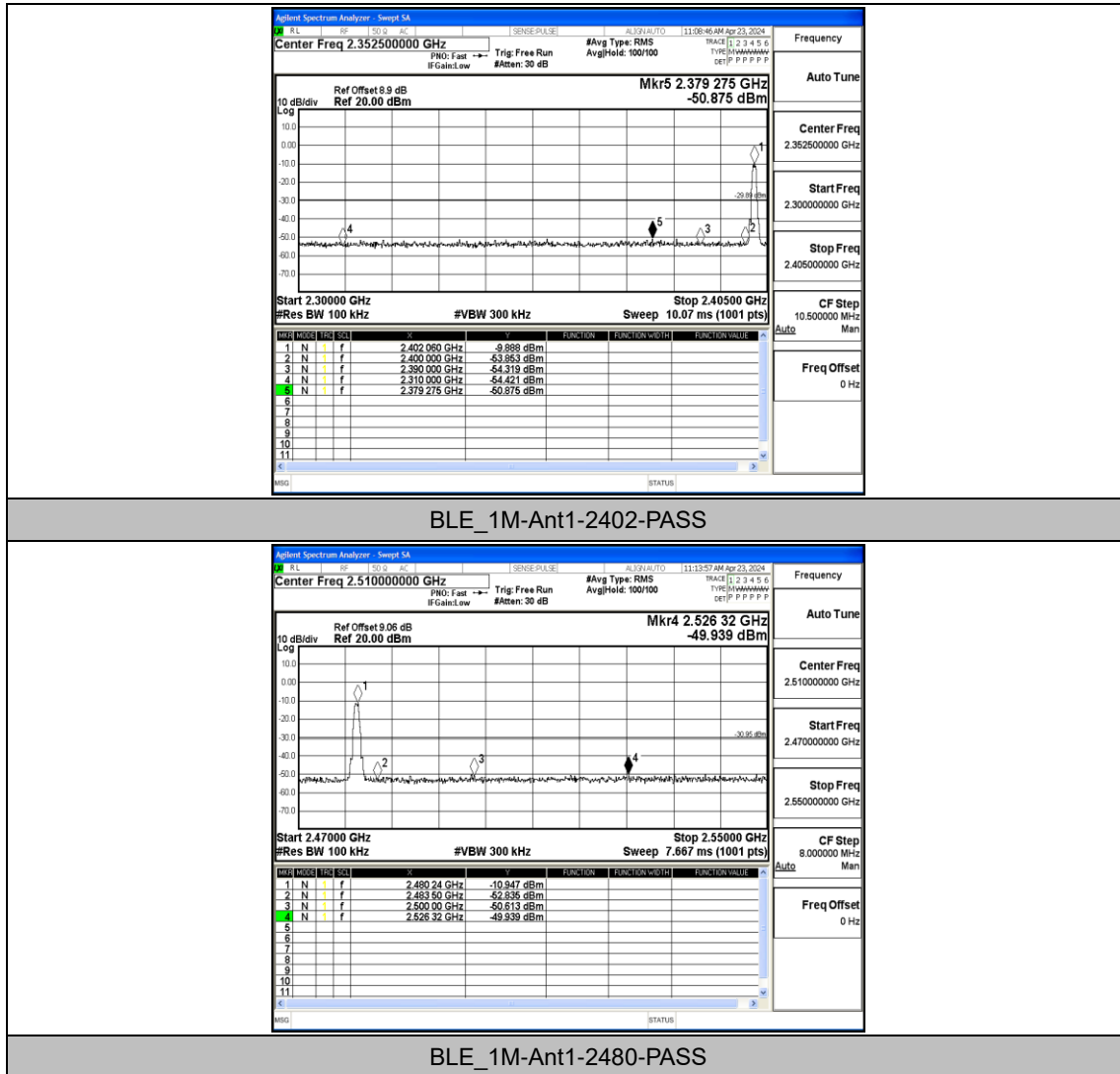


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-9.89	-50.88	≤-29.89	PASS
BLE_1M	Ant1	High	2480	-10.95	-49.94	≤-30.95	PASS

Test Graphs

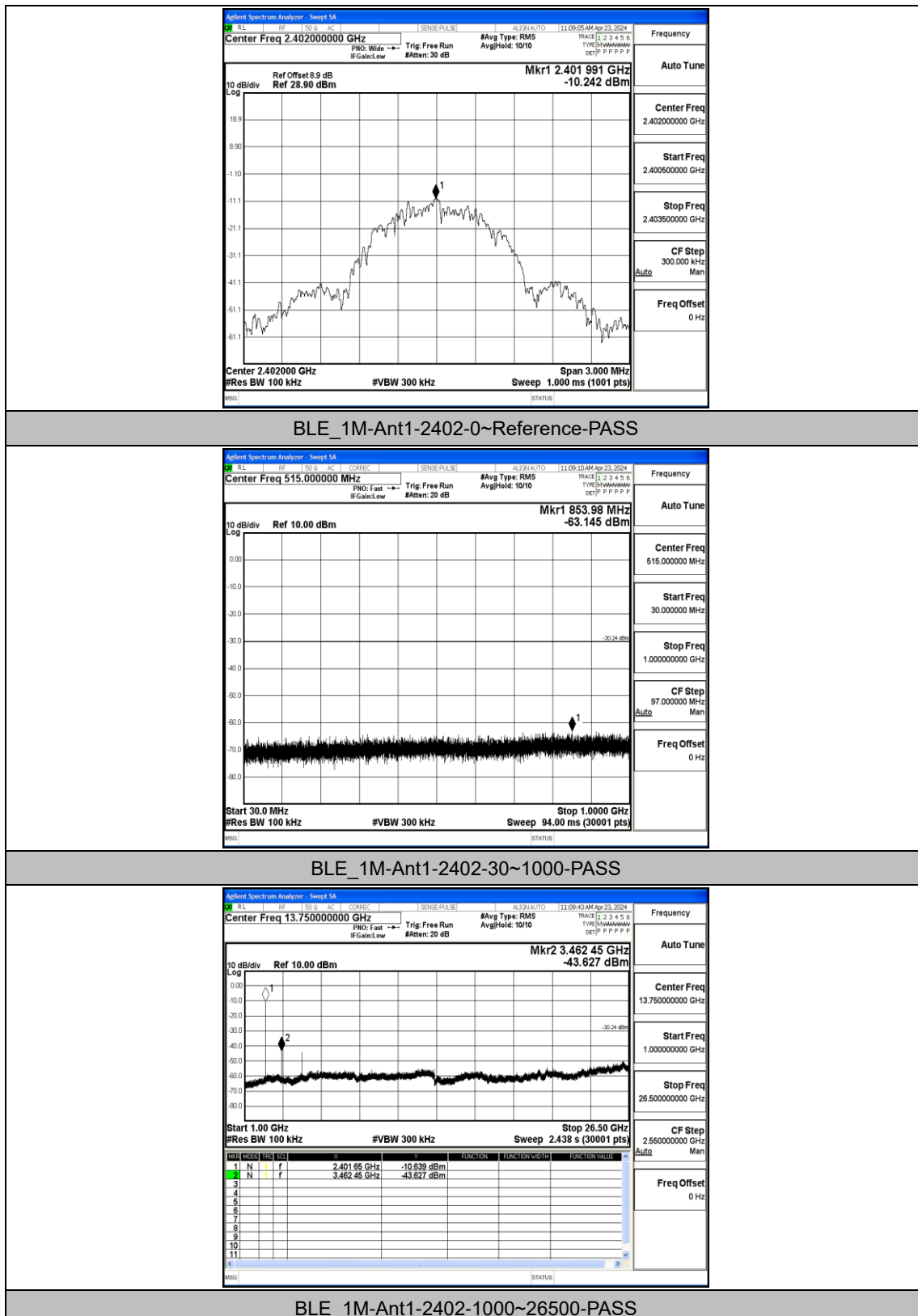


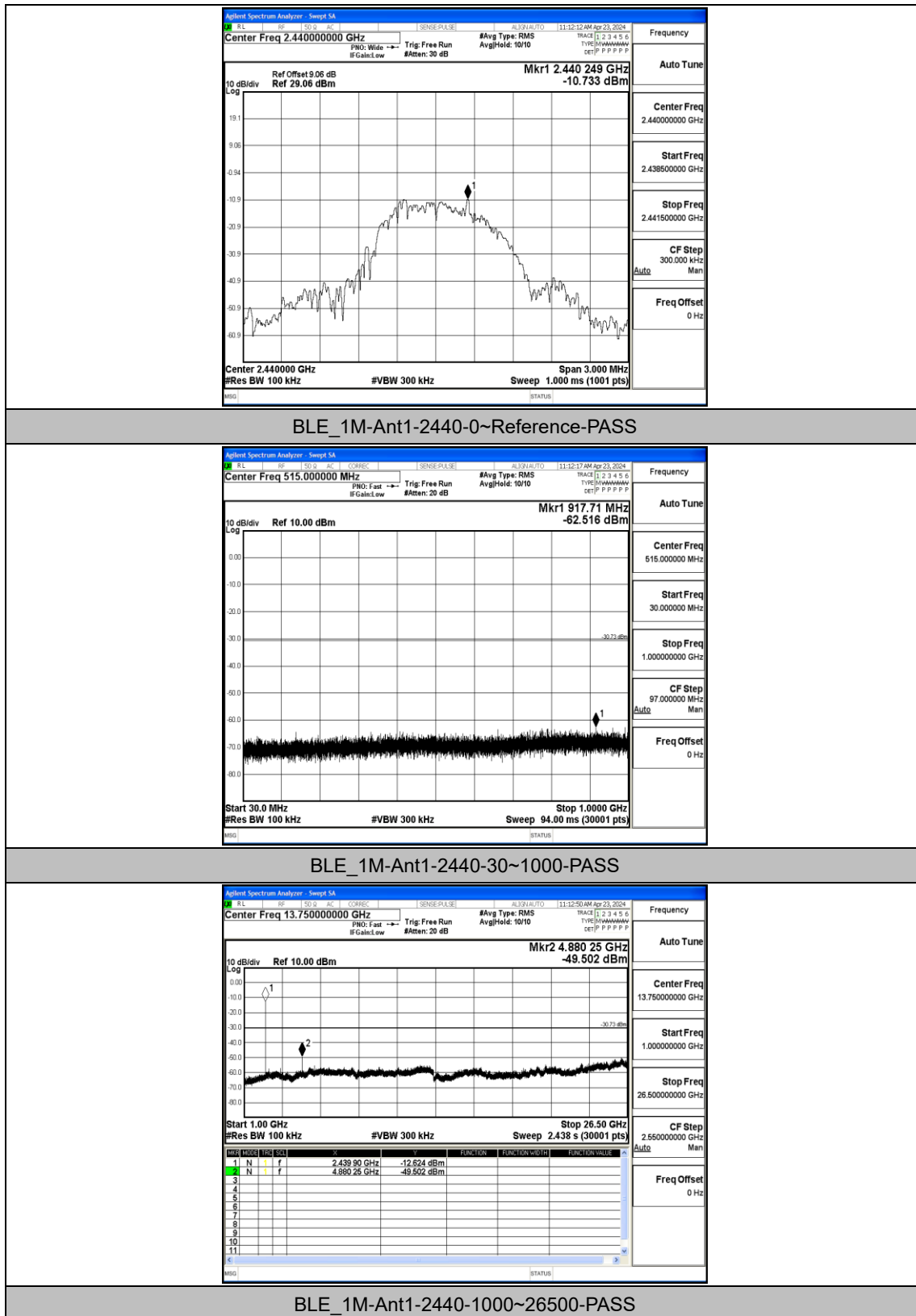
Appendix F: Conducted Spurious Emission

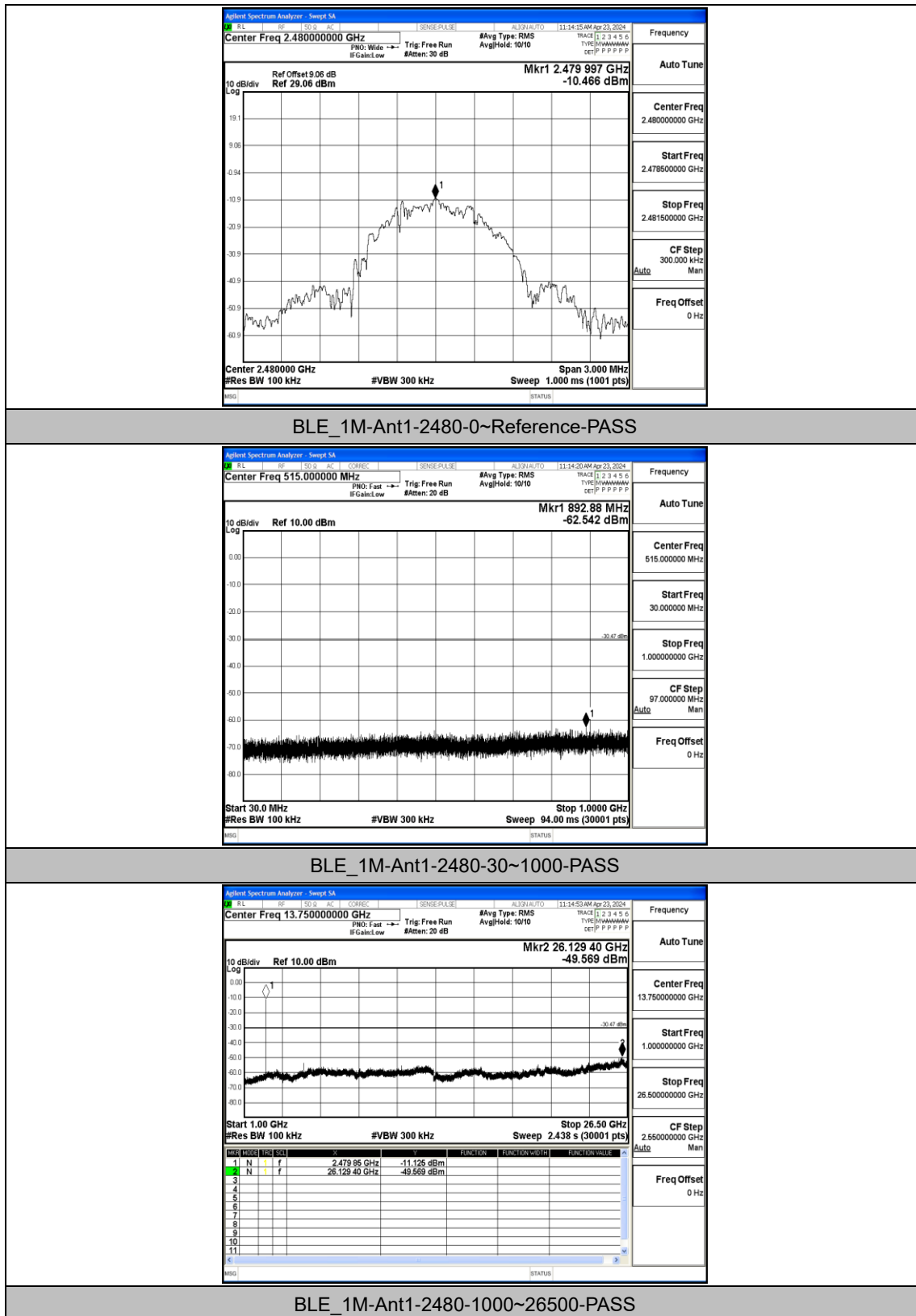
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-10.24	-10.24	---	PASS
BLE_1M	Ant1	2402	30~1000	-10.24	-63.15	≤-30.24	PASS
BLE_1M	Ant1	2402	1000~26500	-10.24	-43.63	≤-30.24	PASS
BLE_1M	Ant1	2440	0~Reference	-10.73	-10.73	---	PASS
BLE_1M	Ant1	2440	30~1000	-10.73	-62.52	≤-30.73	PASS
BLE_1M	Ant1	2440	1000~26500	-10.73	-49.5	≤-30.73	PASS
BLE_1M	Ant1	2480	0~Reference	-10.47	-10.47	---	PASS
BLE_1M	Ant1	2480	30~1000	-10.47	-62.54	≤-30.47	PASS
BLE_1M	Ant1	2480	1000~26500	-10.47	-49.57	≤-30.47	PASS

Test Graphs





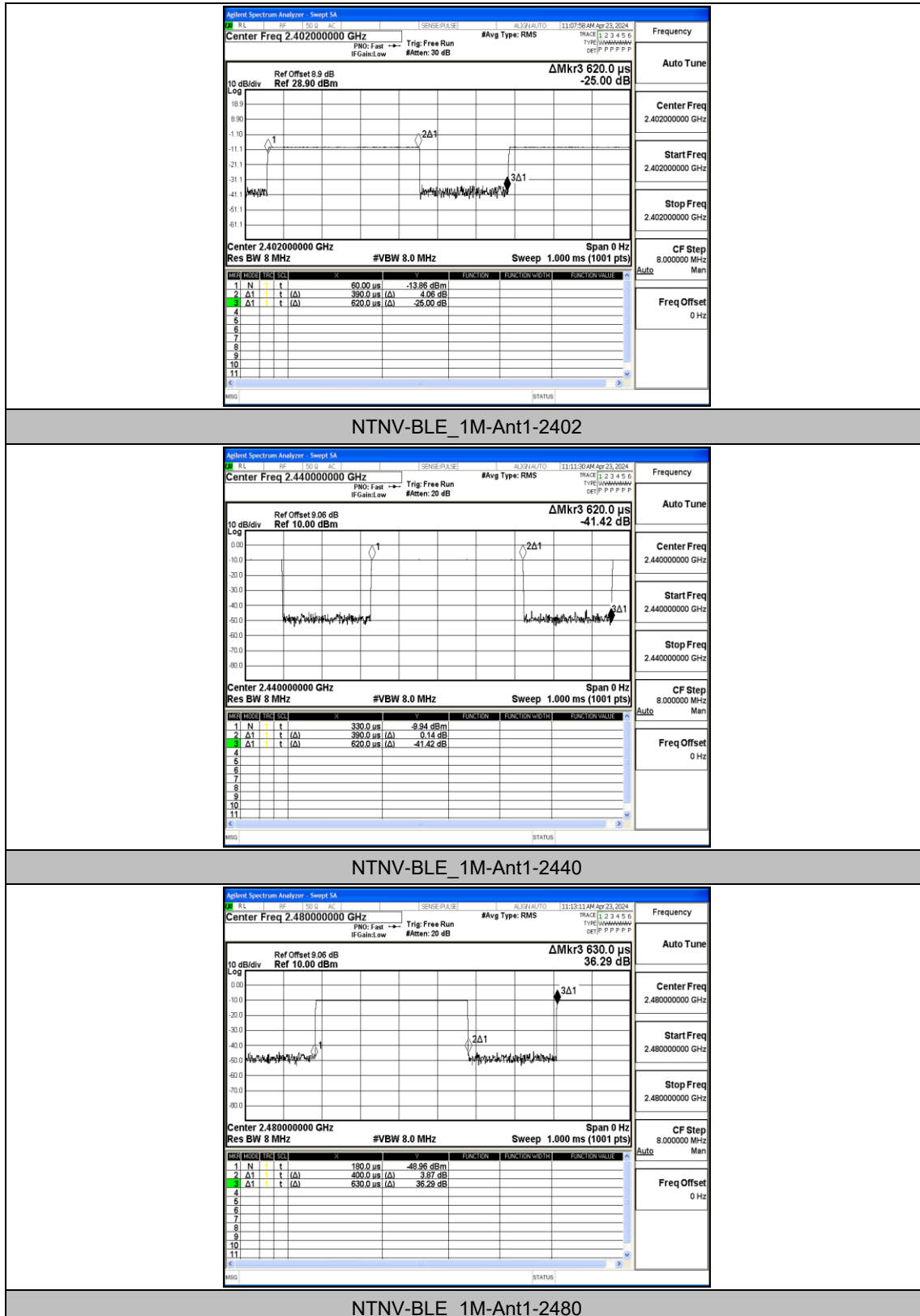


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2440	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2480	0.40	0.63	63.49	1.97

Test Graphs



Appendix H: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	Peak	2390.000	-42.3	≤-21.20	52.90	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2310.000	-43.14	≤-21.20	52.06	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2358.485	-38.89	≤-21.20	56.31	≤74	PASS
BLE_1M	Ant1	Low	2402	AV	2390.000	-47.63	≤-41.20	47.57	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.74	≤-41.20	46.46	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2385.365	-47.35	≤-41.20	47.85	≤54	PASS
BLE_1M	Ant1	High	2480	Peak	2483.500	-41.58	≤-21.20	53.62	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2500.000	-41.25	≤-21.20	53.95	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2497.760	-38.54	≤-21.20	56.66	≤74	PASS
BLE_1M	Ant1	High	2480	AV	2483.500	-47.68	≤-41.20	47.52	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2500.000	-47.47	≤-41.20	47.73	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2499.440	-46.81	≤-41.20	48.39	≤54	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

