

Appendix for Bluetooth BLE Mode

Product Name: Dimmer Switch H2 US
Model No: WS-K05E

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.620	2402.320	0.5	PASS
BLE_1M	Ant1	2440	0.708	2439.608	2440.316	0.5	PASS
BLE_1M	Ant1	2480	0.688	2479.628	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.336	2401.312	2402.648	0.5	PASS
BLE_2M	Ant1	2440	1.340	2439.304	2440.644	0.5	PASS
BLE_2M	Ant1	2480	1.336	2479.304	2480.640	0.5	PASS

Test Graphs



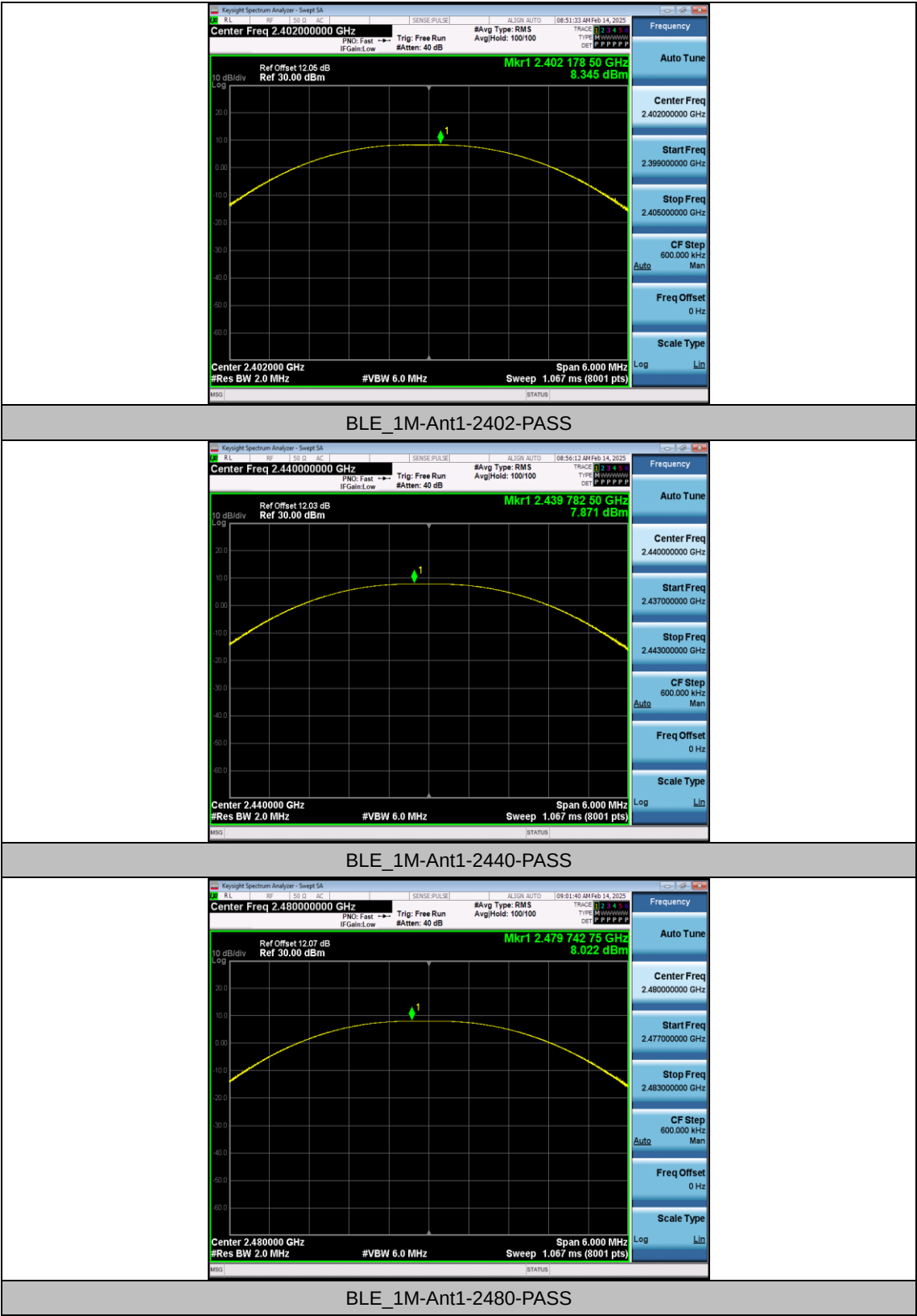


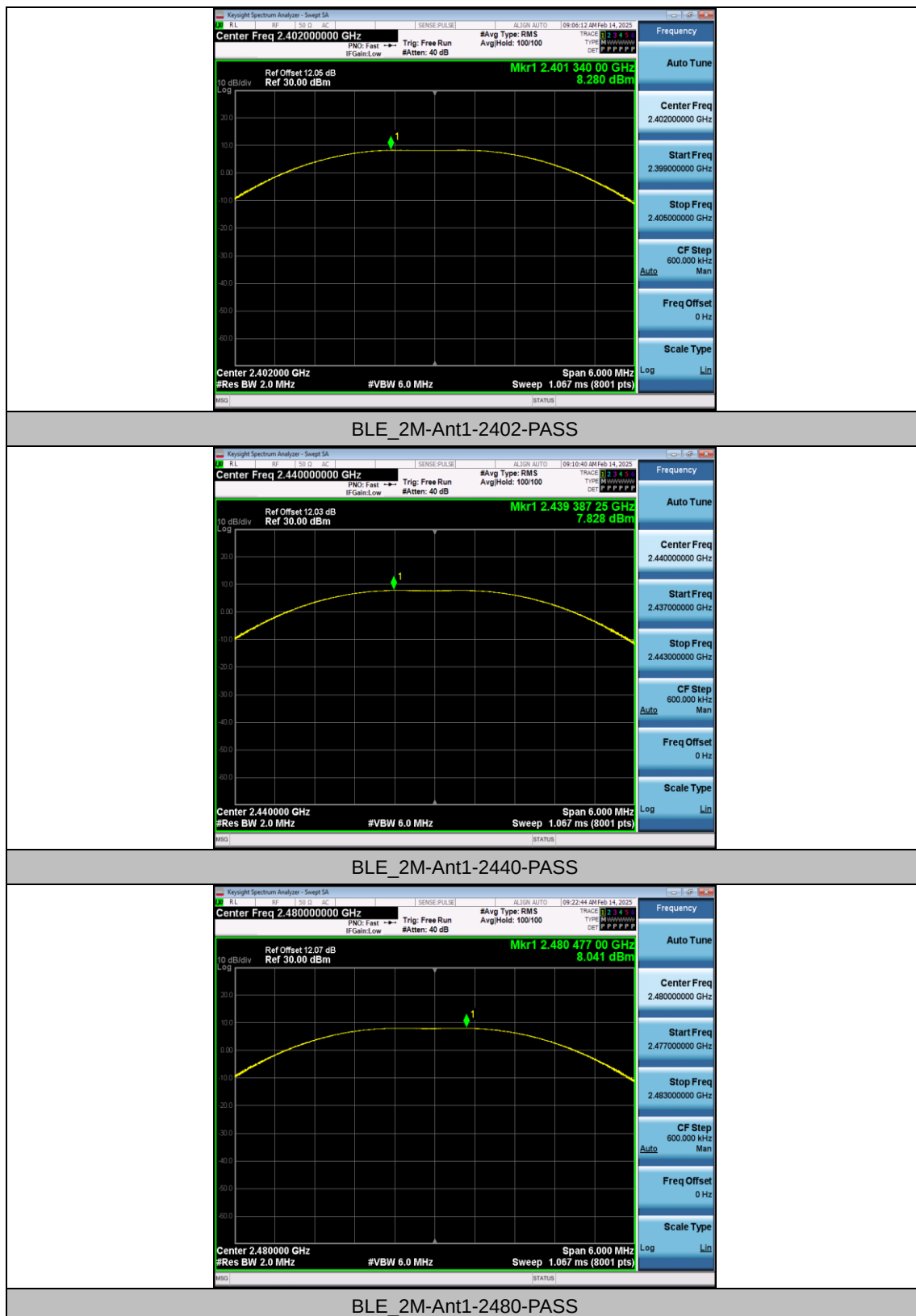
Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.35	≤30	PASS
BLE_1M	Ant1	2440	7.87	≤30	PASS
BLE_1M	Ant1	2480	8.02	≤30	PASS
BLE_2M	Ant1	2402	8.28	≤30	PASS
BLE_2M	Ant1	2440	7.83	≤30	PASS
BLE_2M	Ant1	2480	8.04	≤30	PASS

Test Graphs Peak



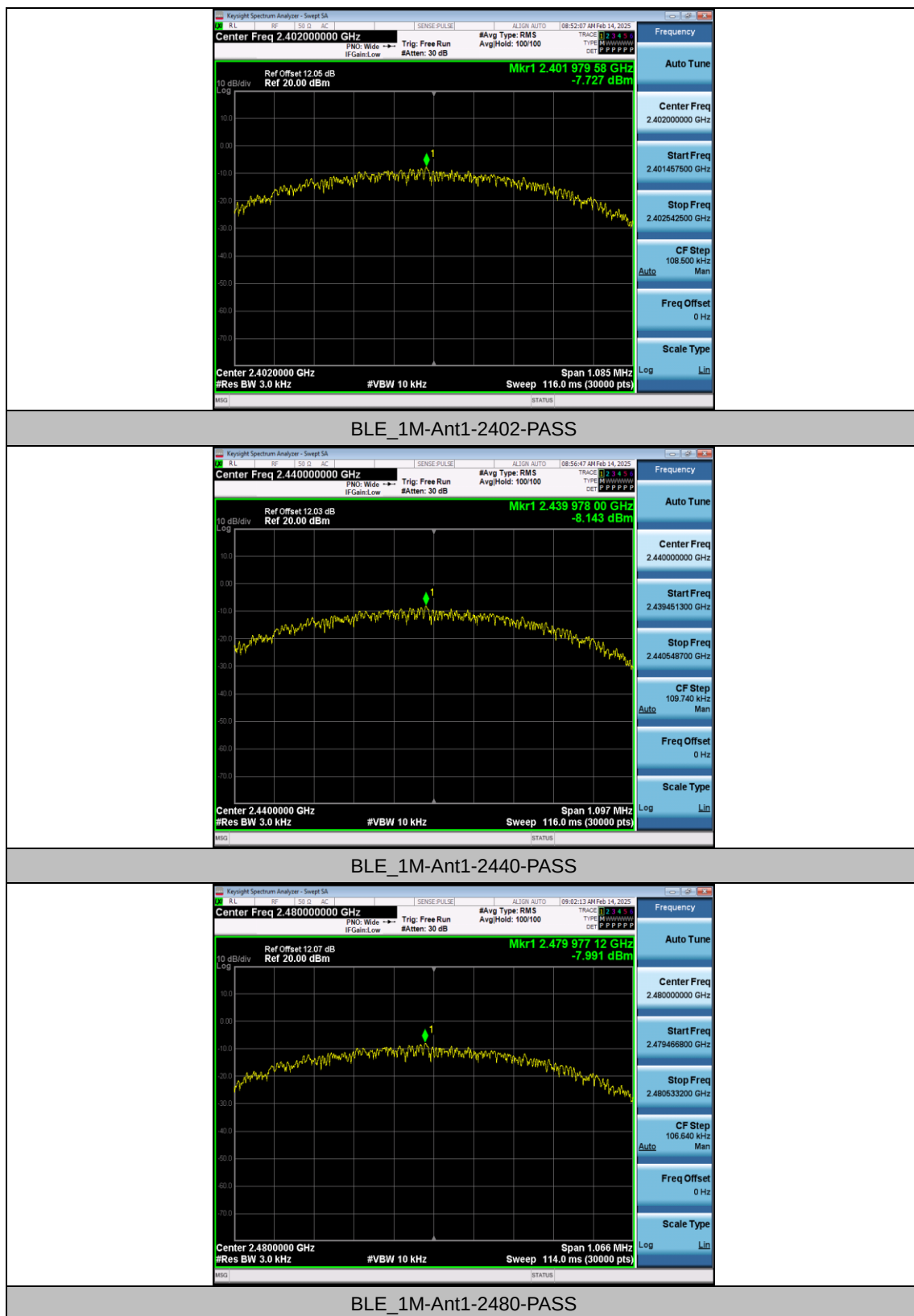


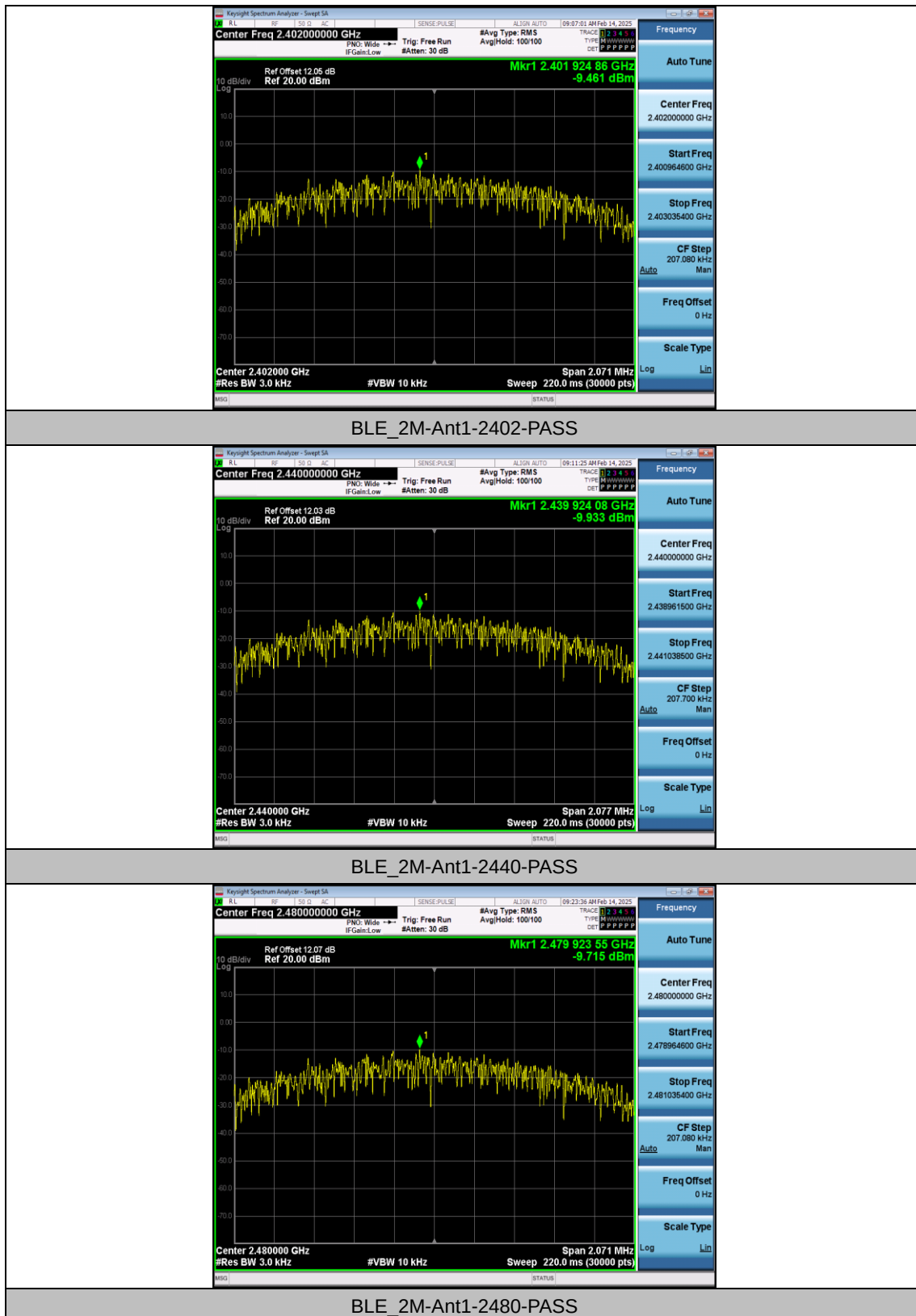
Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.73	≤8.00	PASS
BLE_1M	Ant1	2440	-8.14	≤8.00	PASS
BLE_1M	Ant1	2480	-7.99	≤8.00	PASS
BLE_2M	Ant1	2402	-9.46	≤8.00	PASS
BLE_2M	Ant1	2440	-9.93	≤8.00	PASS
BLE_2M	Ant1	2480	-9.72	≤8.00	PASS

Test Graphs



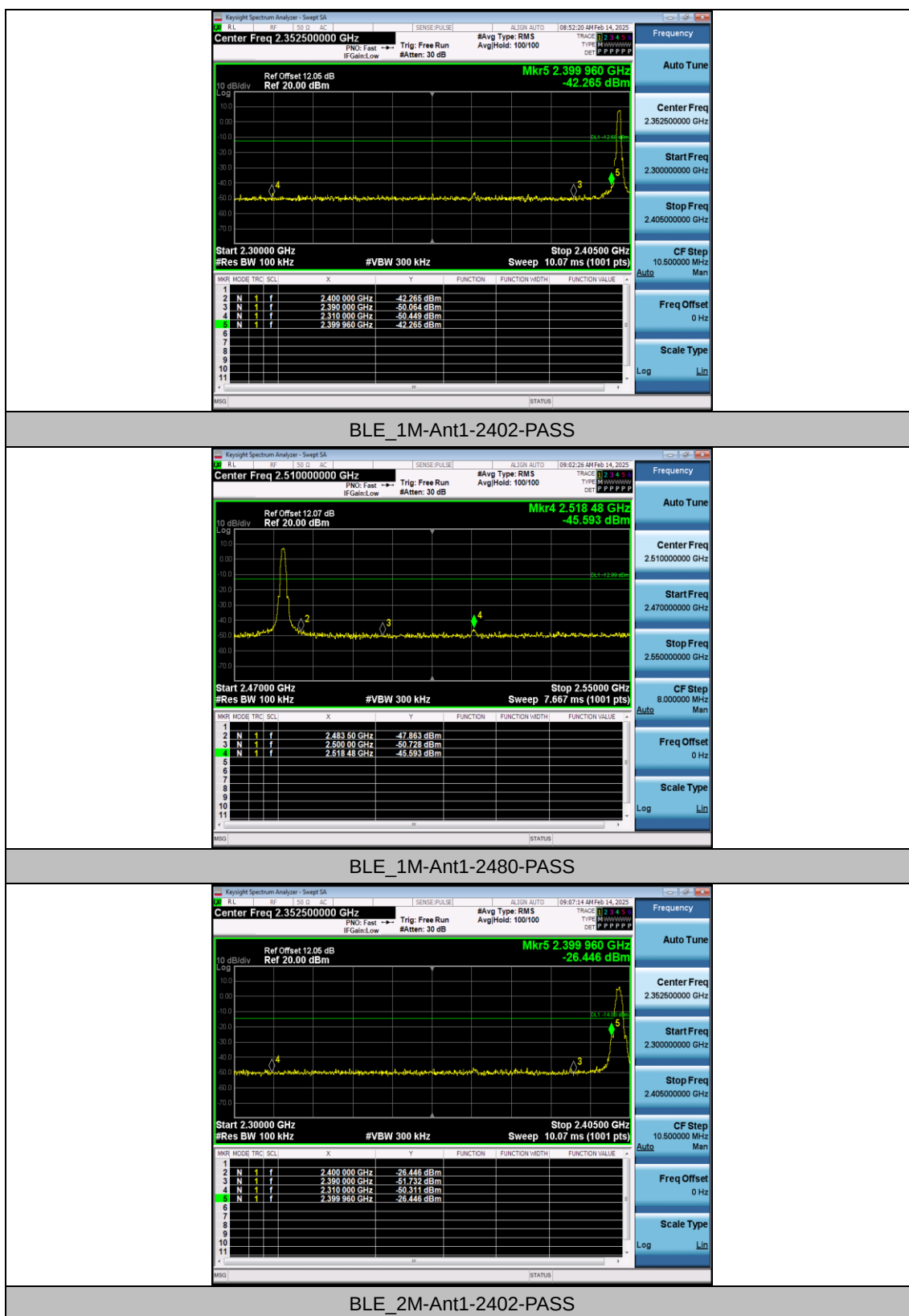


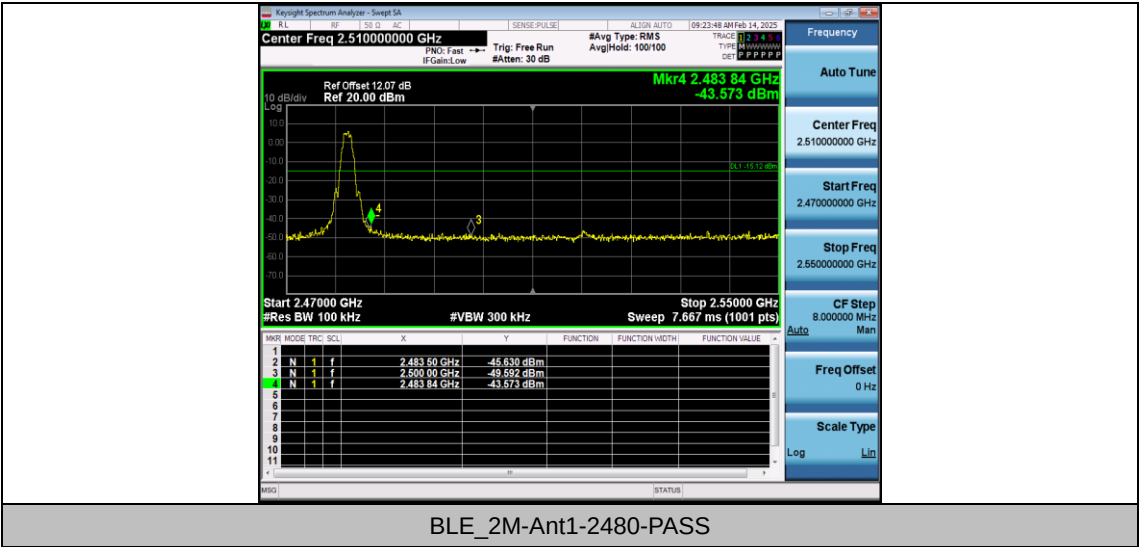
Appendix D: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.32	-42.27	≤-12.68	PASS
BLE_1M	Ant1	High	2480	7.01	-45.59	≤-12.99	PASS
BLE_2M	Ant1	Low	2402	5.12	-26.45	≤-14.88	PASS
BLE_2M	Ant1	High	2480	4.88	-43.57	≤-15.12	PASS

Test Graphs





BLE_2M-Ant1-2480-PASS

Appendix E: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	7.32	-57.62	≤-12.68	PASS
BLE_1M	Ant1	2402	1000~2650 0	7.32	-43.47	≤-12.68	PASS
BLE_1M	Ant1	2440	30~1000	6.84	-59.08	≤-13.16	PASS
BLE_1M	Ant1	2440	1000~2650 0	6.84	-44.16	≤-13.16	PASS
BLE_1M	Ant1	2480	30~1000	7.01	-59.4	≤-12.99	PASS
BLE_1M	Ant1	2480	1000~2650 0	7.01	-44.85	≤-12.99	PASS
BLE_2M	Ant1	2402	30~1000	5.12	-58.81	≤-14.88	PASS
BLE_2M	Ant1	2402	1000~2650 0	5.12	-44.2	≤-14.88	PASS
BLE_2M	Ant1	2440	30~1000	4.68	-58.48	≤-15.32	PASS
BLE_2M	Ant1	2440	1000~2650 0	4.68	-44.36	≤-15.32	PASS
BLE_2M	Ant1	2480	30~1000	4.88	-59.22	≤-15.12	PASS
BLE_2M	Ant1	2480	1000~2650 0	4.88	-43.57	≤-15.12	PASS

Test Graphs

