

Appendix: Bluetooth LE-R

Contents

Appendix A: DTS Bandwidth 3

 Test Result 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth 7

 Test Result 7

 Test Graphs 8

Appendix C: Maximum conducted output power 11

 Test Result Peak 11

 Test Graphs Peak 12

Appendix D: Maximum power spectral density 15

 Test Result 15

 Test Graphs 16

Appendix F: Band edge measurements 19

 Test Result 19

 Test Graphs 20

Appendix G: Conducted Spurious Emission 22

 Test Result 22

 Test Graphs 23

Appendix H: Duty Cycle 32

 Test Result 32

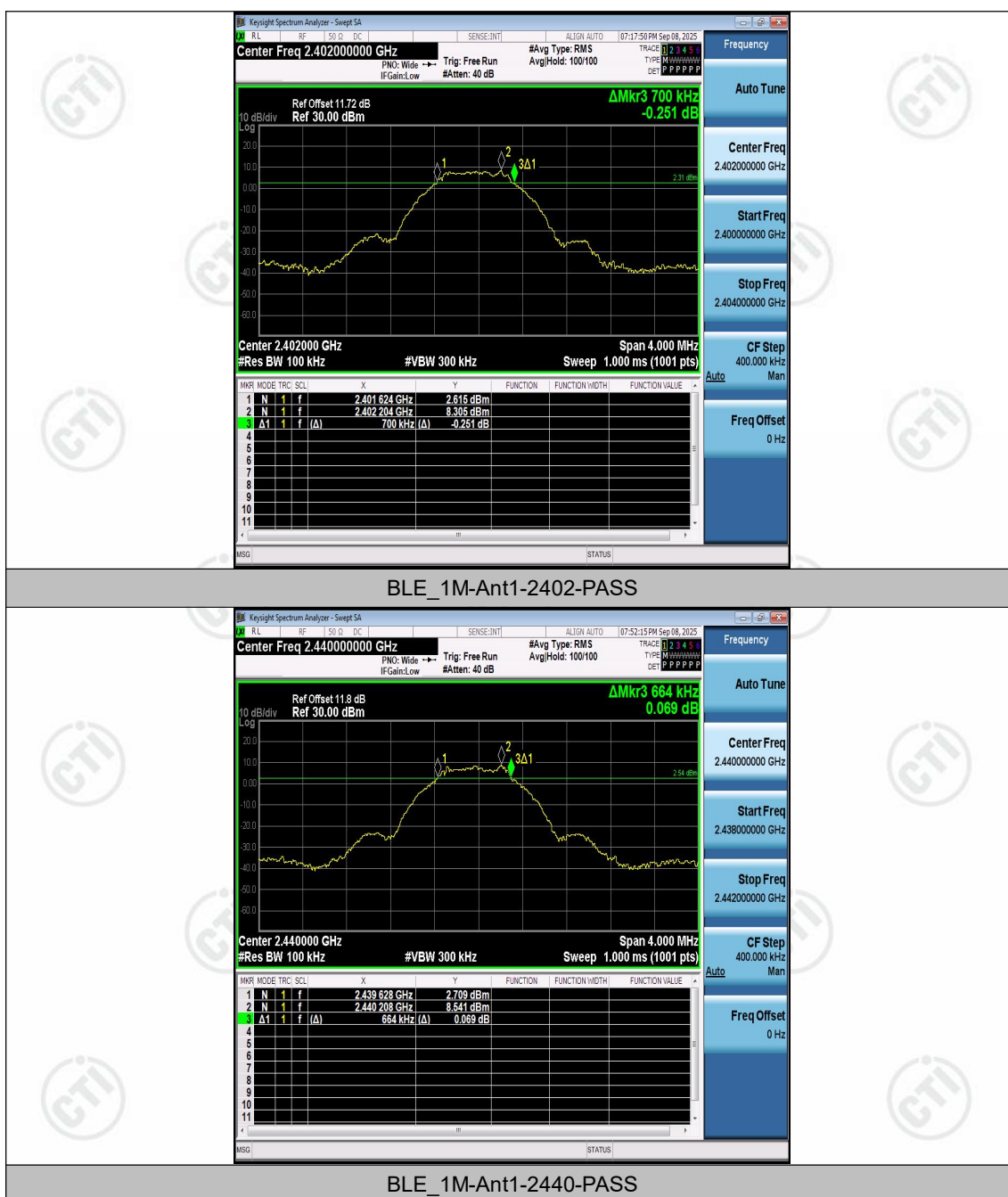
 Test Graphs 33

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	2401.624	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.664	2439.628	2440.292	0.5	PASS
BLE_1M	Ant1	2480	0.656	2479.632	2480.288	0.5	PASS
BLE_2M	Ant1	2404	1.108	2403.412	2404.520	0.5	PASS
BLE_2M	Ant1	2440	1.156	2439.380	2440.536	0.5	PASS
BLE_2M	Ant1	2478	1.096	2477.412	2478.508	0.5	PASS

Test Graphs







BLE_2M-Ant1-2440-PASS



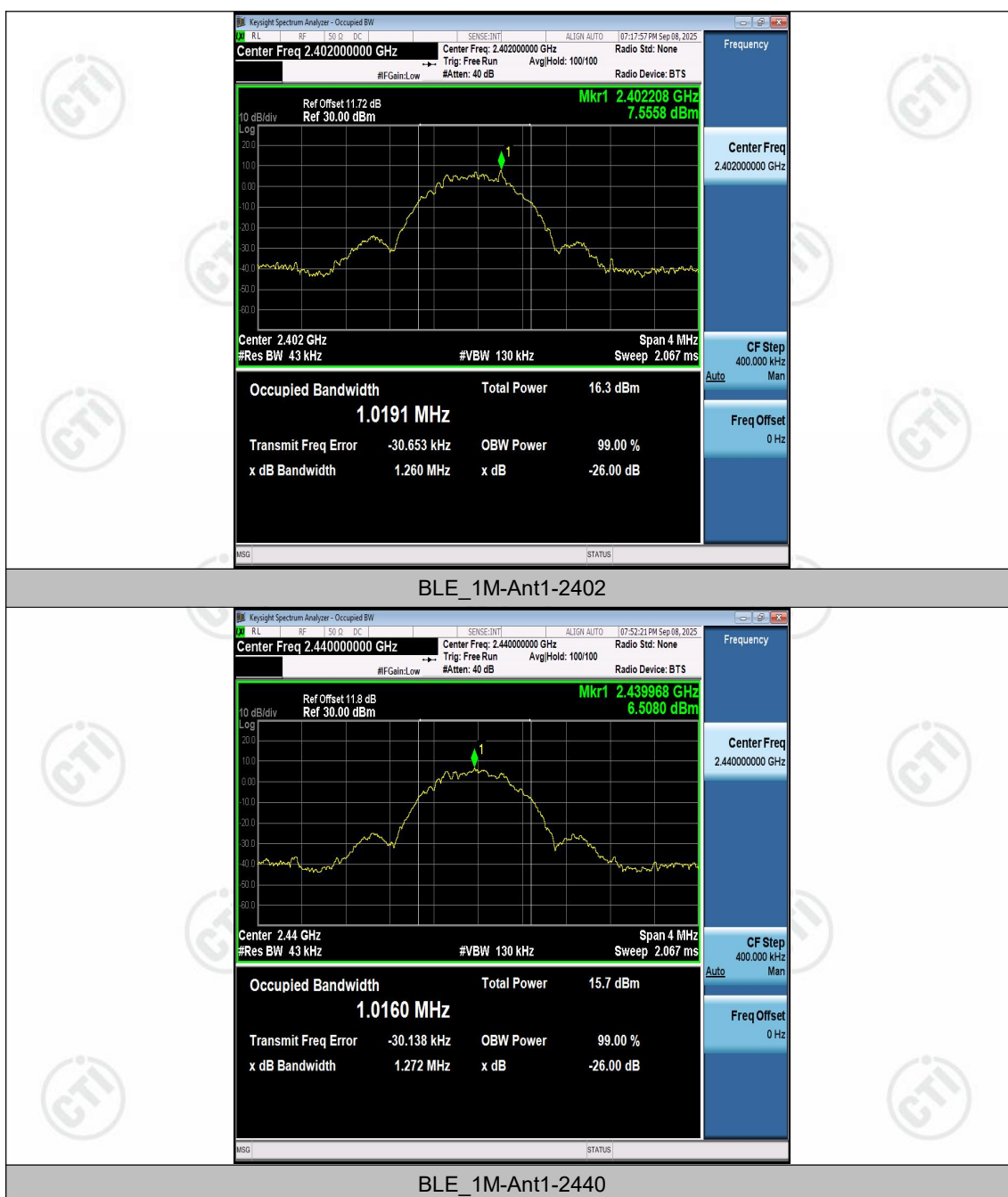
BLE_2M-Ant1-2478-PASS

Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0191	2401.4598	2402.4789	---	---
BLE_1M	Ant1	2440	1.0160	2439.4619	2440.4779	---	---
BLE_1M	Ant1	2480	1.0266	2479.4578	2480.4844	---	---
BLE_2M	Ant1	2404	2.0574	2402.9586	2405.0160	---	---
BLE_2M	Ant1	2440	2.0377	2438.9677	2441.0054	---	---
BLE_2M	Ant1	2478	2.0323	2476.9714	2479.0037	---	---

Test Graphs





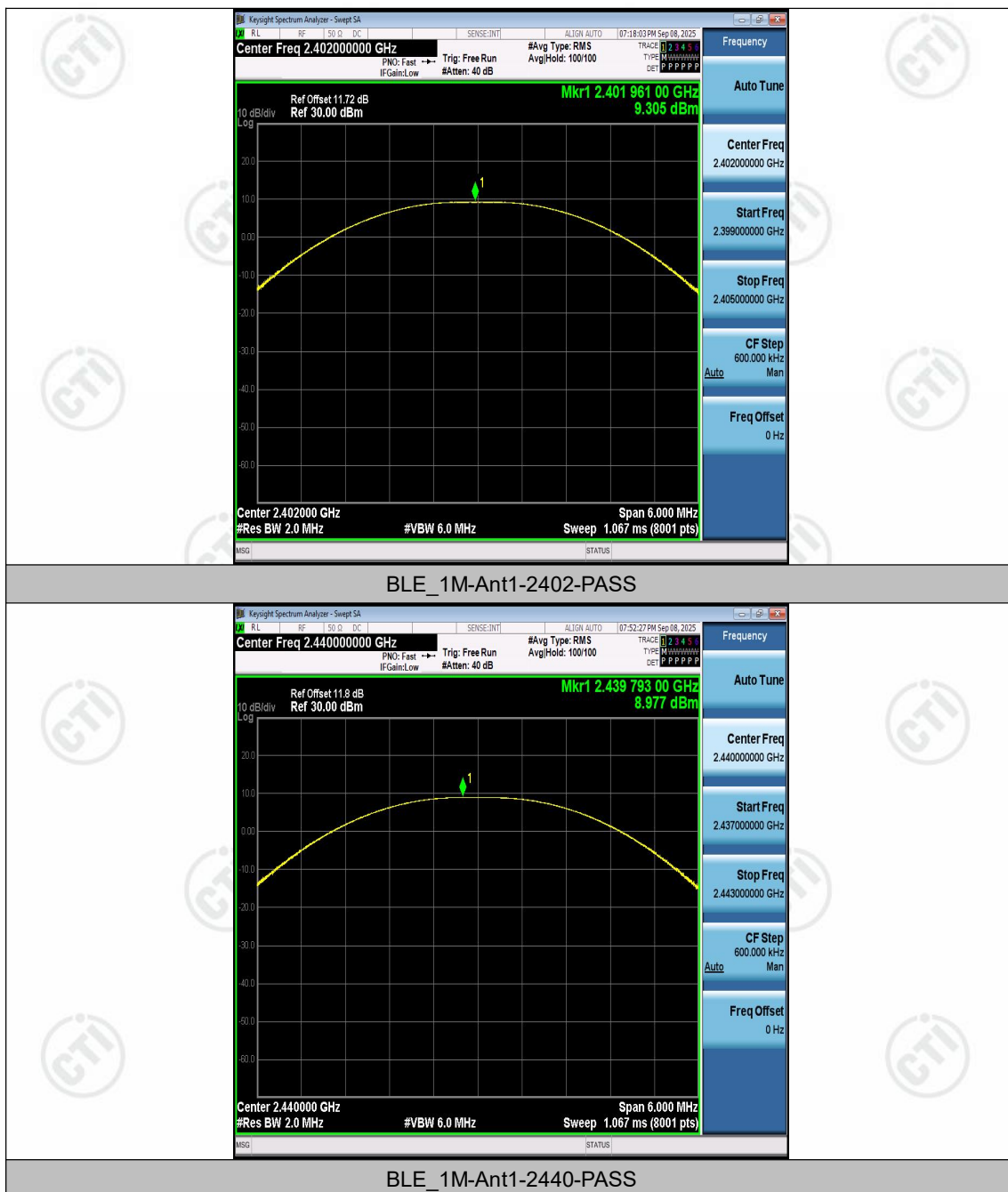


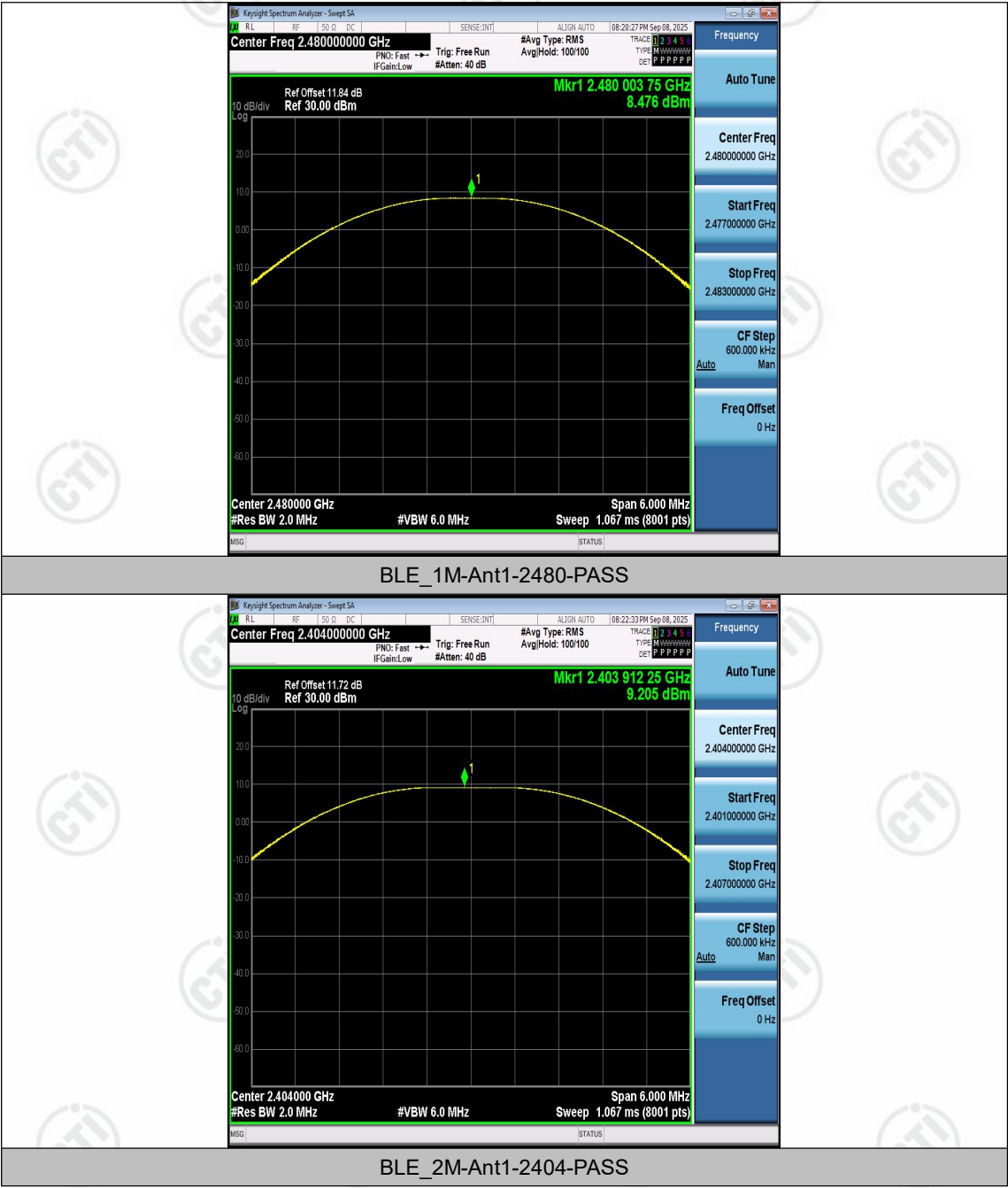
Appendix C: Maximum conducted output power

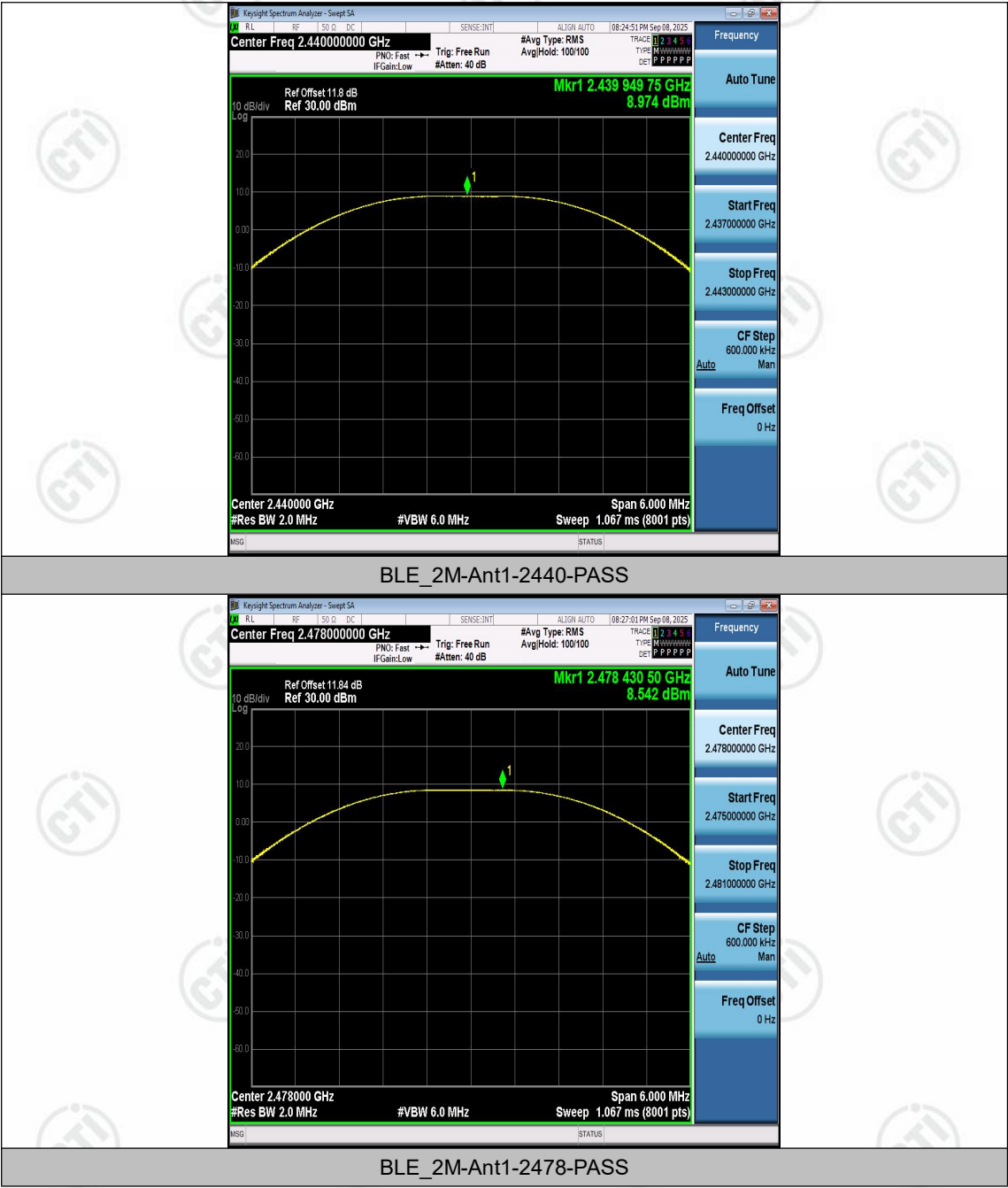
Test Result Peak

TestMode	Antenn a	Frequency[M Hz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	9.31	≤30	PASS
BLE_1M	Ant1	2440	8.98	≤30	PASS
BLE_1M	Ant1	2480	8.48	≤30	PASS
BLE_2M	Ant1	2404	9.21	≤30	PASS
BLE_2M	Ant1	2440	8.97	≤30	PASS
BLE_2M	Ant1	2478	8.54	≤30	PASS

Test Graphs Peak





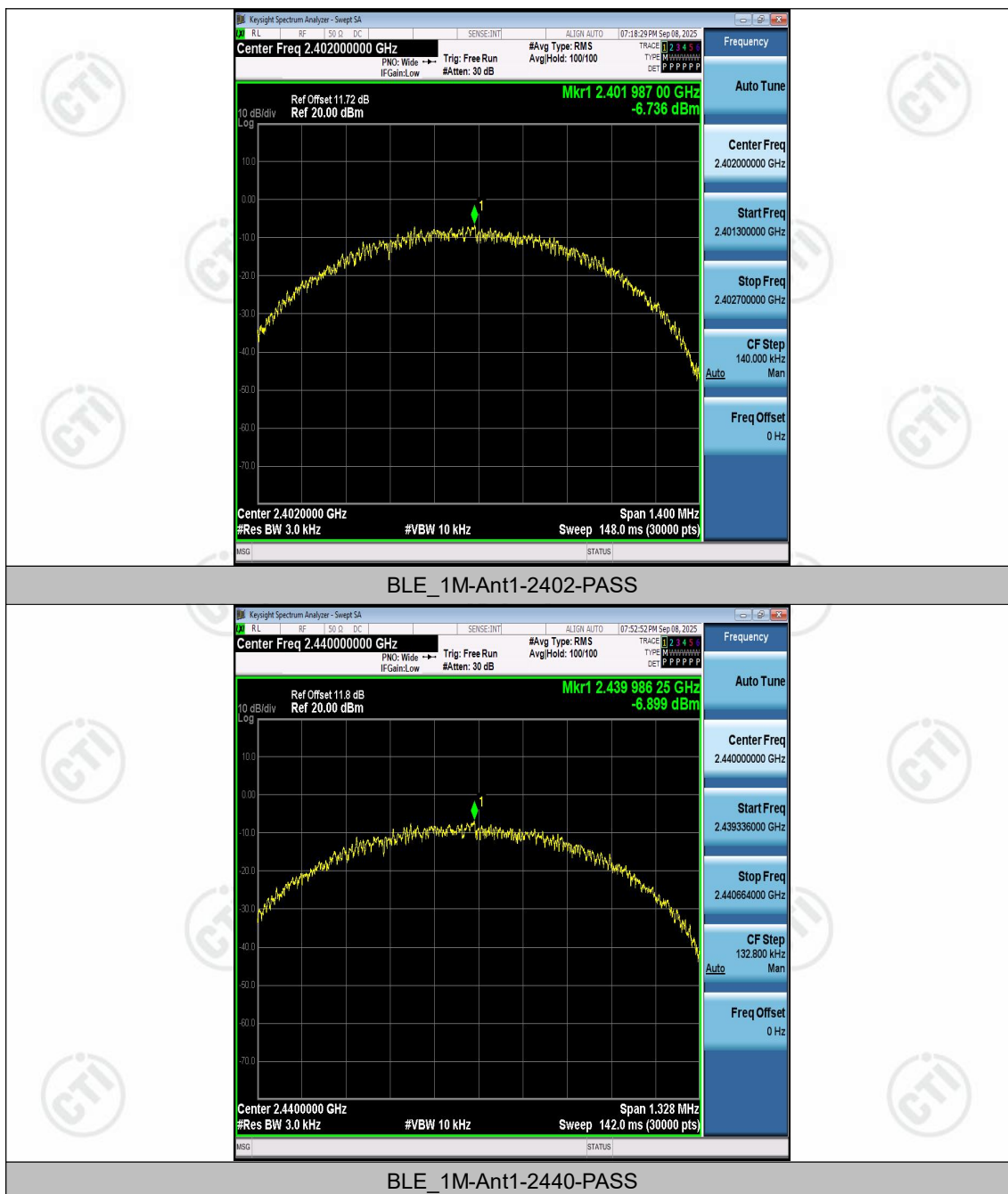


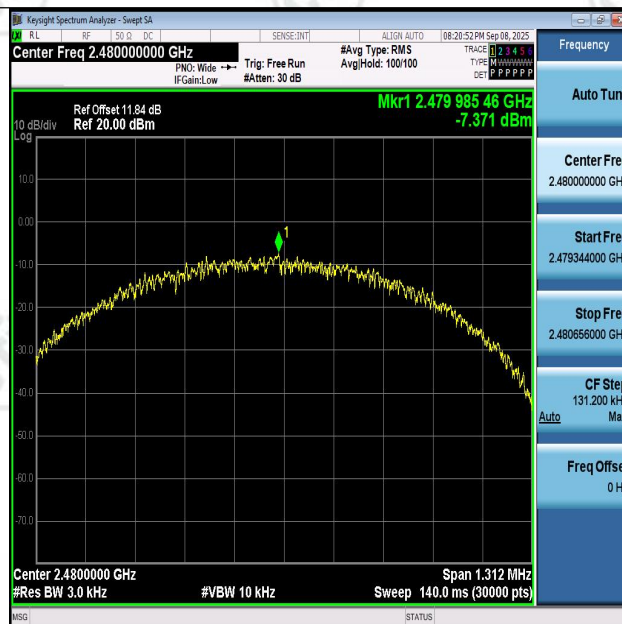
Appendix D: Maximum power spectral density

Test Result

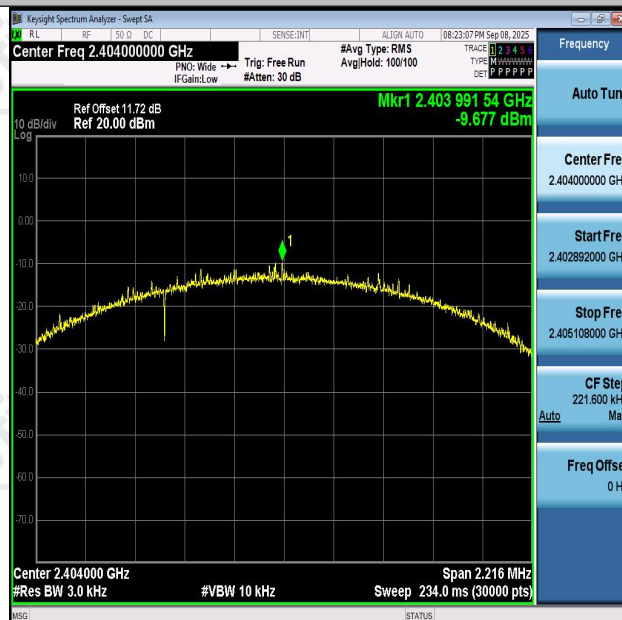
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.74	≤8.00	PASS
BLE_1M	Ant1	2440	-6.90	≤8.00	PASS
BLE_1M	Ant1	2480	-7.37	≤8.00	PASS
BLE_2M	Ant1	2404	-9.68	≤8.00	PASS
BLE_2M	Ant1	2440	-9.89	≤8.00	PASS
BLE_2M	Ant1	2478	-10.28	≤8.00	PASS

Test Graphs

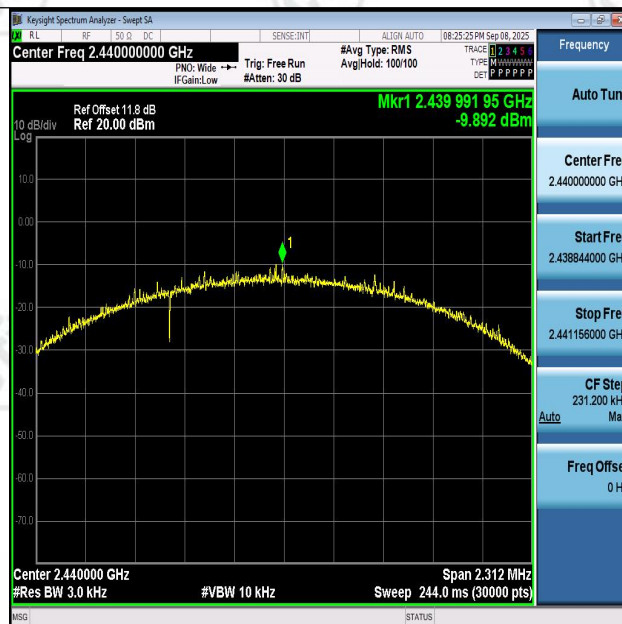




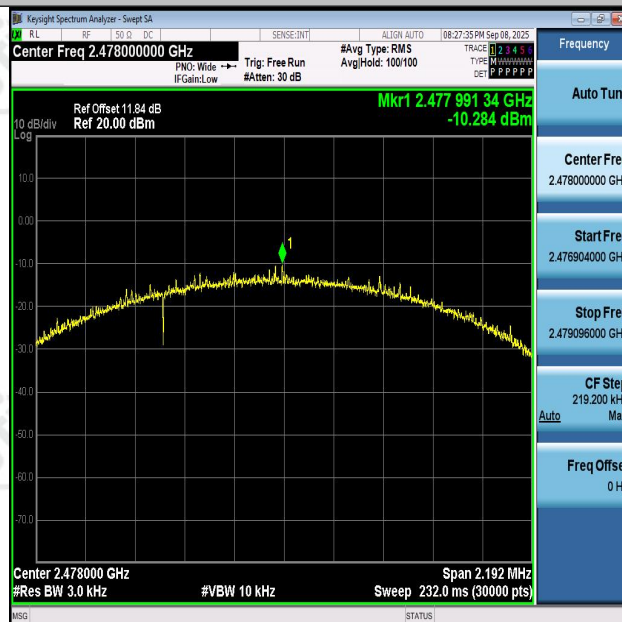
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2404-PASS



BLE_2M-Ant1-2440-PASS

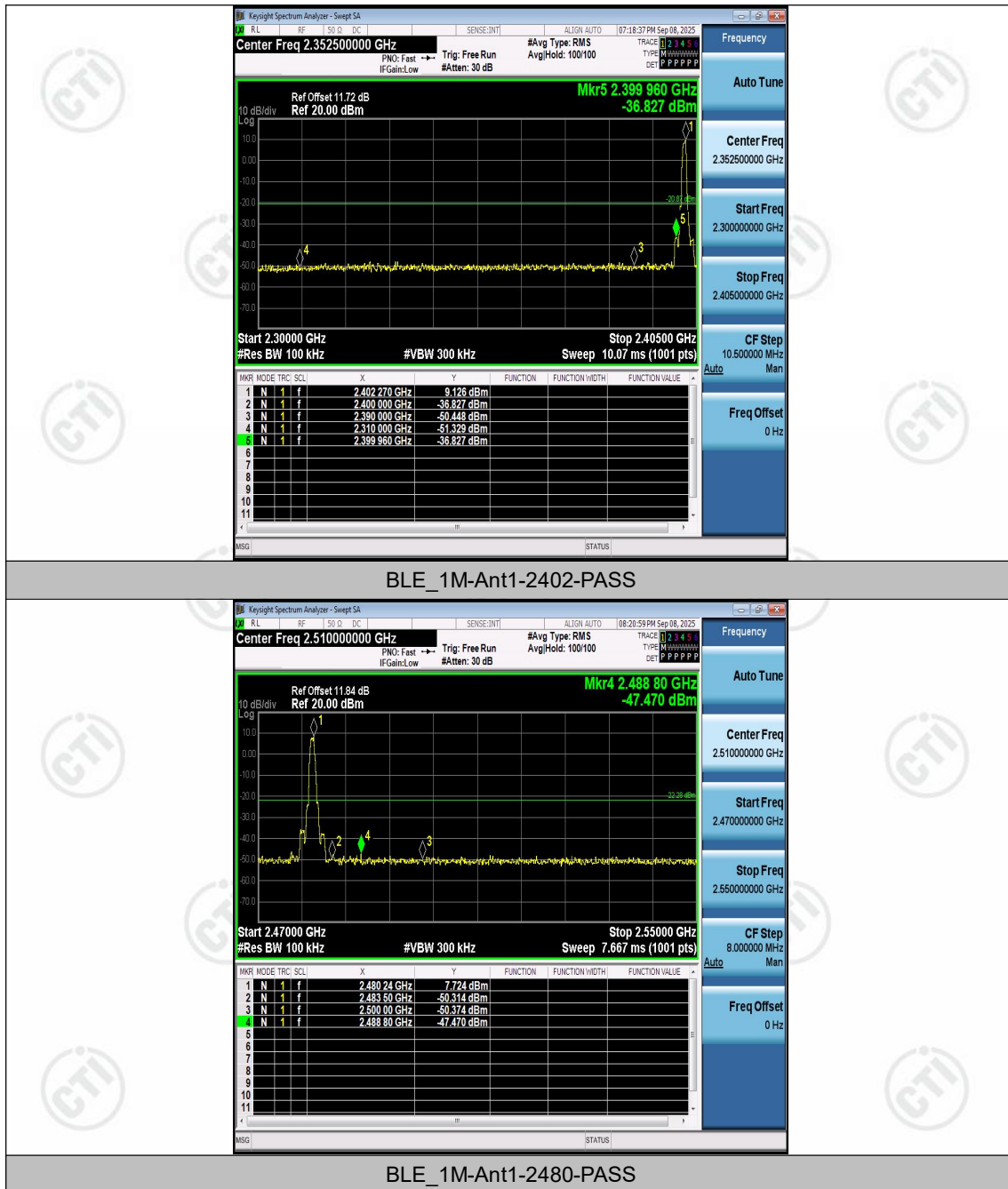


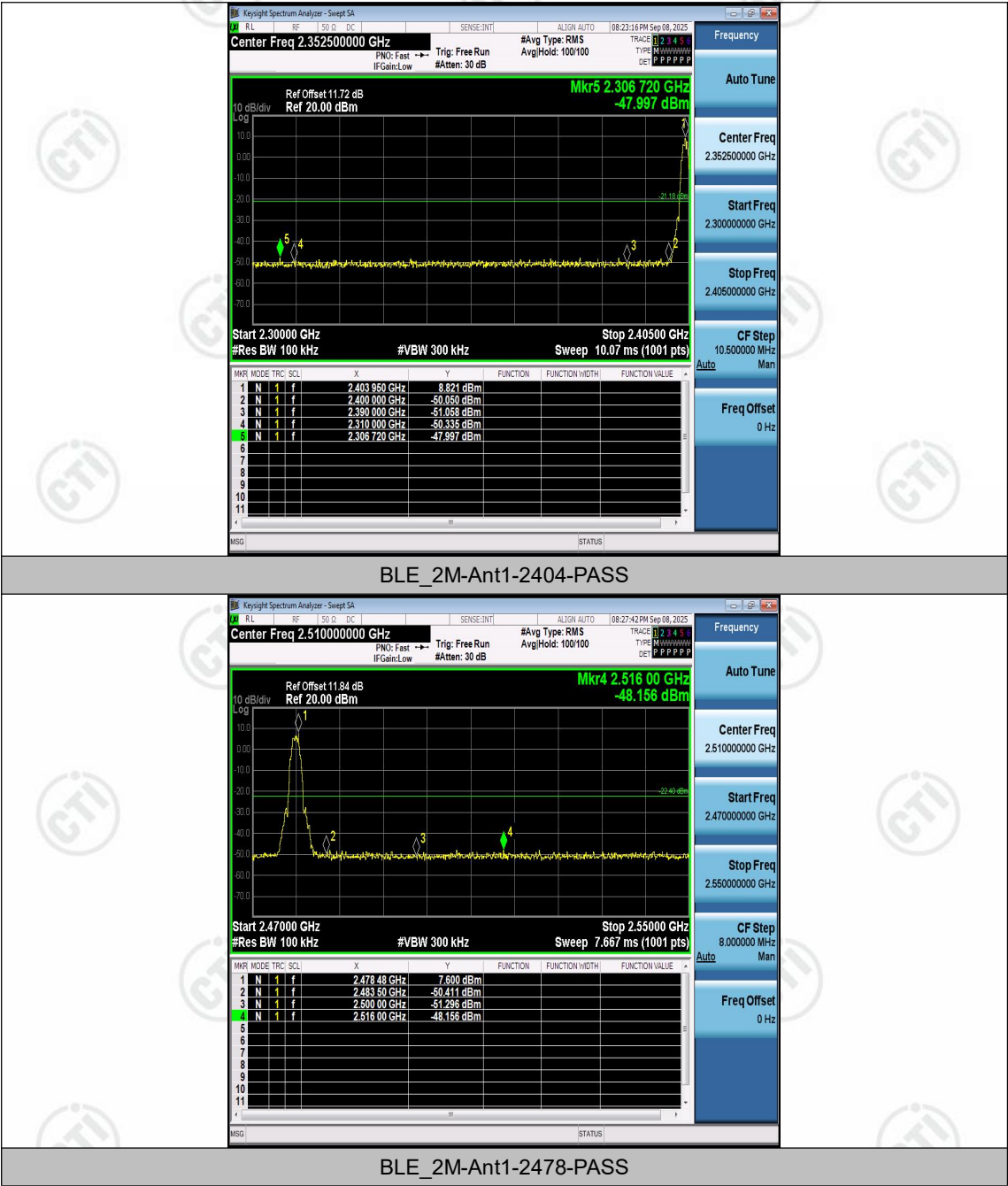
BLE_2M-Ant1-2478-PASS

Appendix F: Band edge measurements**Test Result**

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.13	-36.83	≤-20.87	PASS
BLE_1M	Ant1	High	2480	7.72	-47.47	≤-22.28	PASS
BLE_2M	Ant1	Low	2404	8.82	-48	≤-21.18	PASS
BLE_2M	Ant1	High	2478	7.60	-48.16	≤-22.4	PASS

Test Graphs





Appendix G: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	7.51	7.51	---	PASS
BLE_1M	Ant1	2402	30~1000	7.51	-59.41	≤-12.49	PASS
BLE_1M	Ant1	2402	1000~26500	7.51	-50.21	≤-12.49	PASS
BLE_1M	Ant1	2440	0~Reference	7.28	7.28	---	PASS
BLE_1M	Ant1	2440	30~1000	7.28	-59.96	≤-12.72	PASS
BLE_1M	Ant1	2440	1000~26500	7.28	-51.1	≤-12.72	PASS
BLE_1M	Ant1	2480	0~Reference	6.86	6.86	---	PASS
BLE_1M	Ant1	2480	30~1000	6.86	-59.68	≤-13.14	PASS
BLE_1M	Ant1	2480	1000~26500	6.86	-50.4	≤-13.14	PASS
BLE_2M	Ant1	2404	0~Reference	6.00	6.00	---	PASS
BLE_2M	Ant1	2404	30~1000	6.00	-59.22	≤-14	PASS
BLE_2M	Ant1	2404	1000~26500	6.00	-52.09	≤-14	PASS
BLE_2M	Ant1	2440	0~Reference	5.83	5.83	---	PASS
BLE_2M	Ant1	2440	30~1000	5.83	-59.57	≤-14.17	PASS
BLE_2M	Ant1	2440	1000~26500	5.83	-51.25	≤-14.17	PASS
BLE_2M	Ant1	2478	0~Reference	6.44	6.44	---	PASS
BLE_2M	Ant1	2478	30~1000	6.44	-59.35	≤-13.56	PASS
BLE_2M	Ant1	2478	1000~26500	6.44	-51.41	≤-13.56	PASS

Test Graphs

