

Appendix: Bluetooth LE-L

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

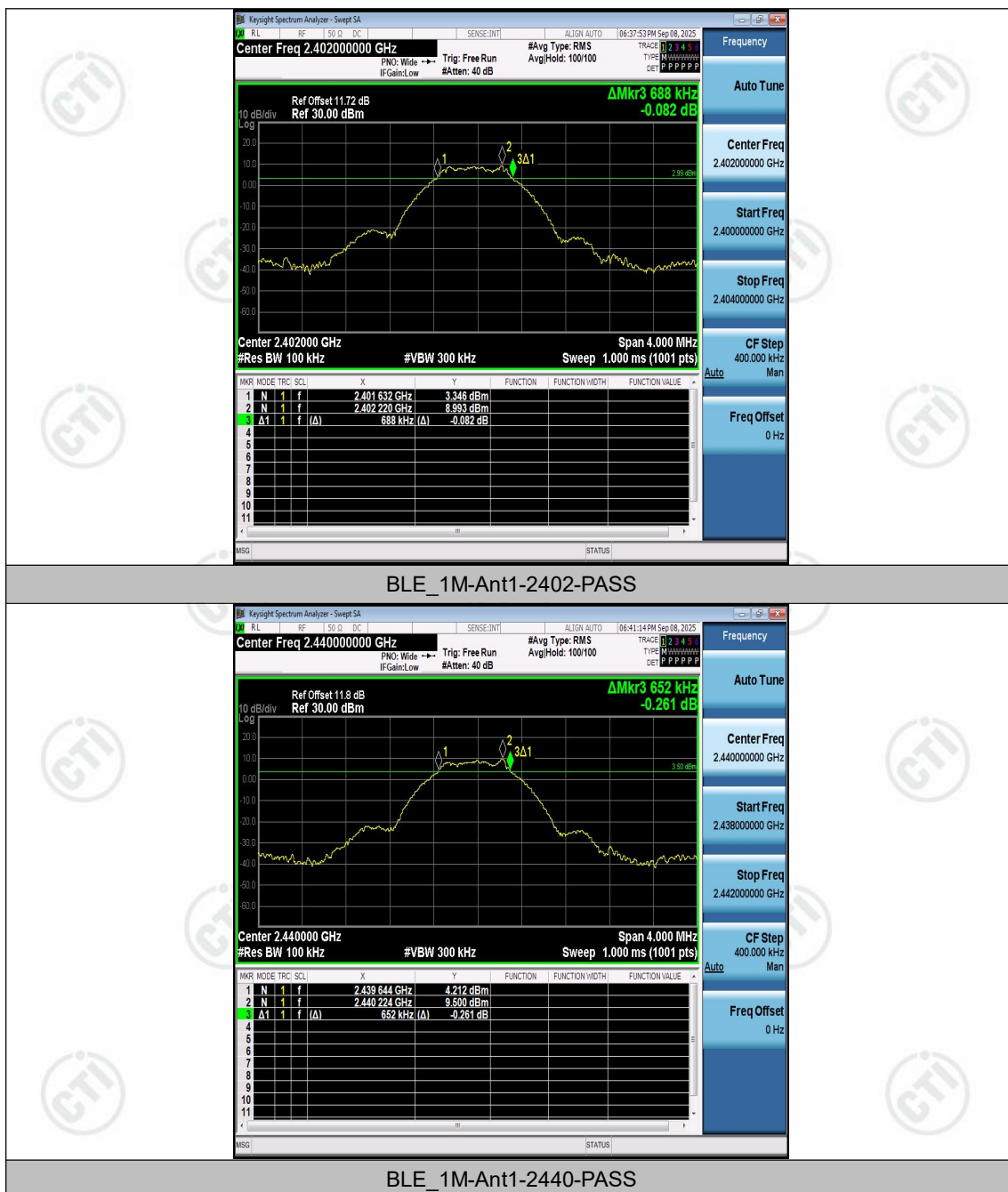
 Test Graphs 33

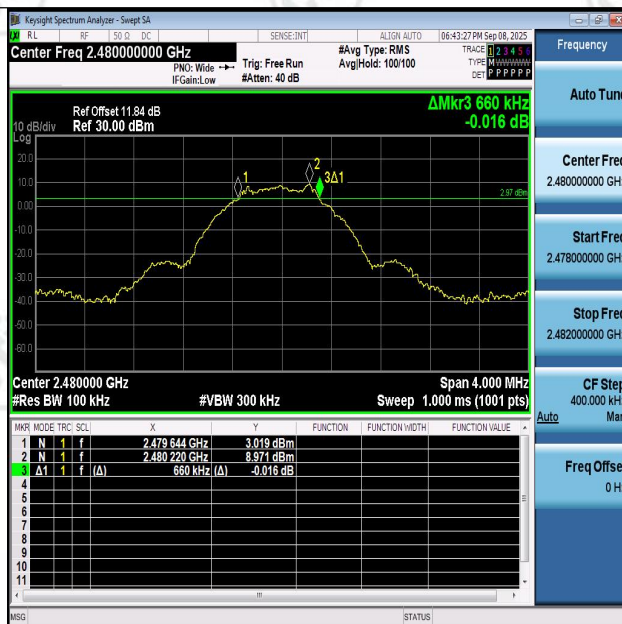
Appendix A: DTS Bandwidth

Test Result

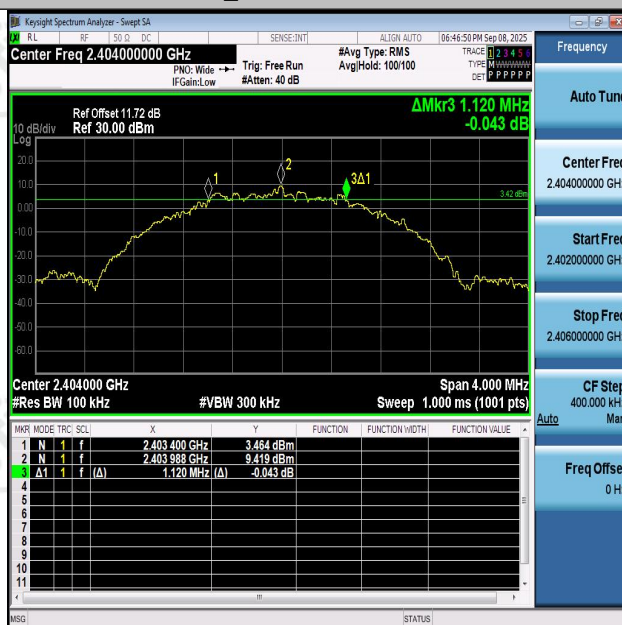
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.632	2402.320	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.644	2440.296	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.644	2480.304	0.5	PASS
BLE_2M	Ant1	2404	1.120	2403.400	2404.520	0.5	PASS
BLE_2M	Ant1	2440	1.156	2439.376	2440.532	0.5	PASS
BLE_2M	Ant1	2478	1.084	2477.444	2478.528	0.5	PASS

Test Graphs

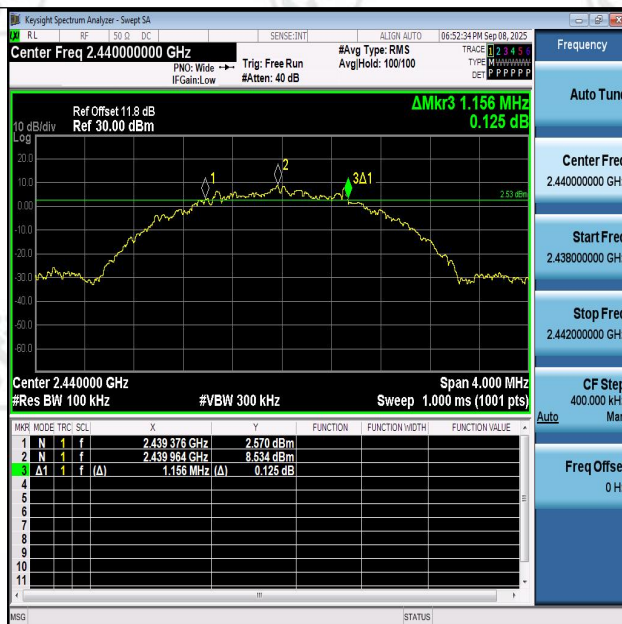




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2404-PASS



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	1.0303	2401.4600	2402.4903	---	---
BLE_1M	Ant1	2440	1.0135	2439.4649	2440.4784	---	---
BLE_1M	Ant1	2480	1.0230	2479.4619	2480.4849	---	---
BLE_2M	Ant1	2404	2.0580	2402.9610	2405.0190	---	---
BLE_2M	Ant1	2440	2.0445	2438.9678	2441.0123	---	---
BLE_2M	Ant1	2478	2.0306	2476.9751	2479.0057	---	---

Test Graphs





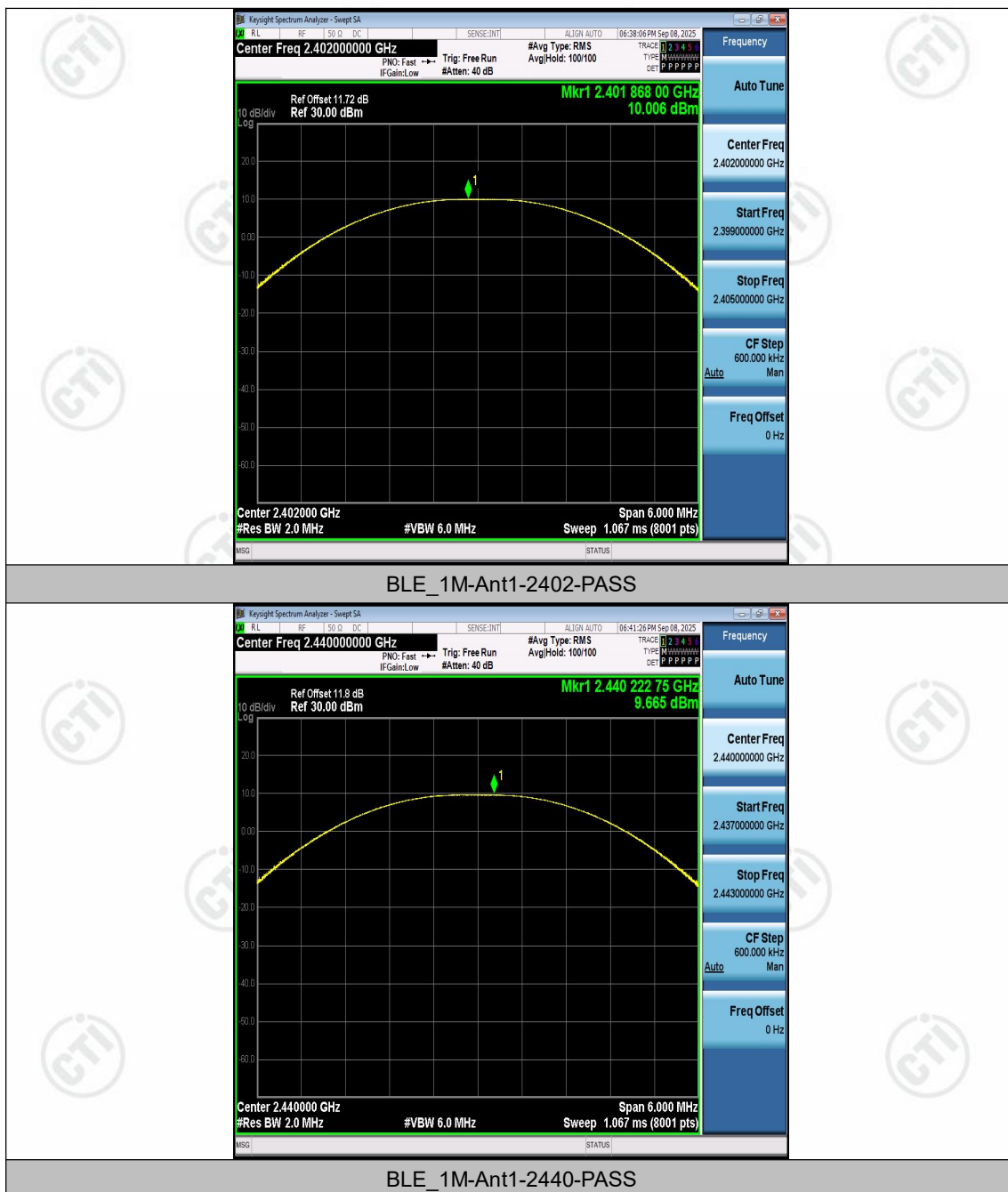


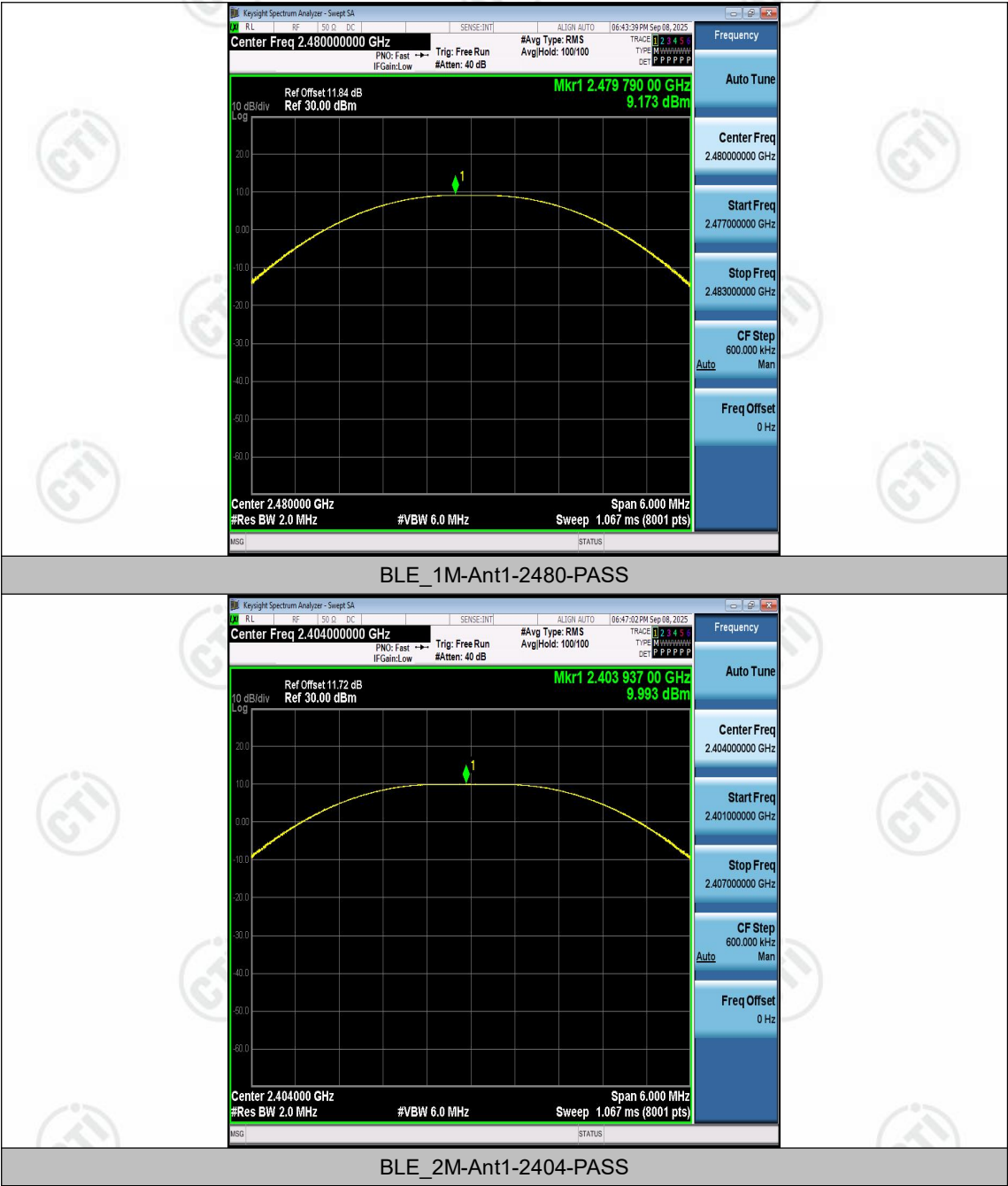
Appendix C: Maximum conducted output power

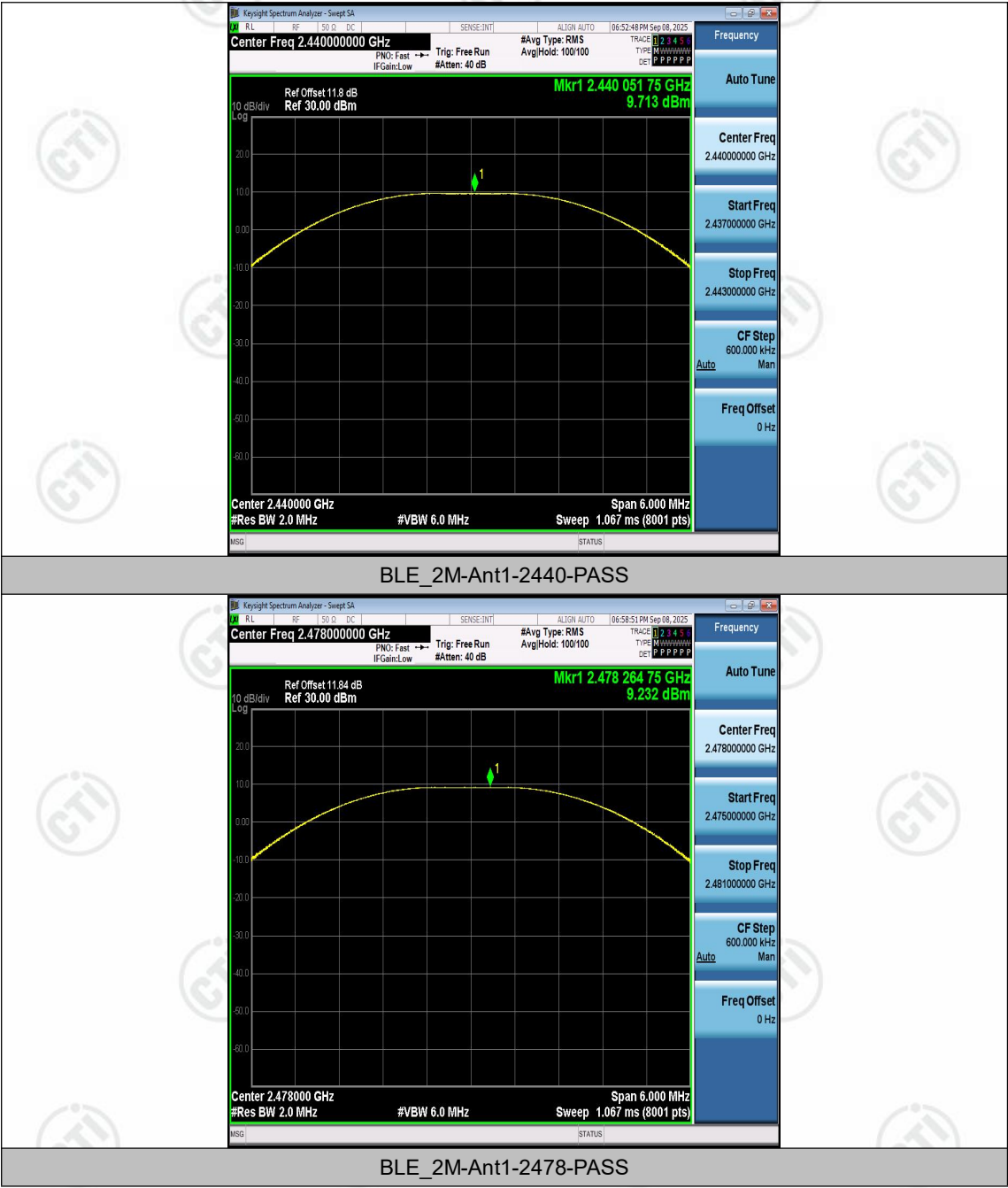
Test Result Peak

TestMode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	10.01	≤30	PASS
BLE_1M	Ant1	2440	9.67	≤30	PASS
BLE_1M	Ant1	2480	9.17	≤30	PASS
BLE_2M	Ant1	2404	9.99	≤30	PASS
BLE_2M	Ant1	2440	9.71	≤30	PASS
BLE_2M	Ant1	2478	9.23	≤30	PASS

Test Graphs Peak





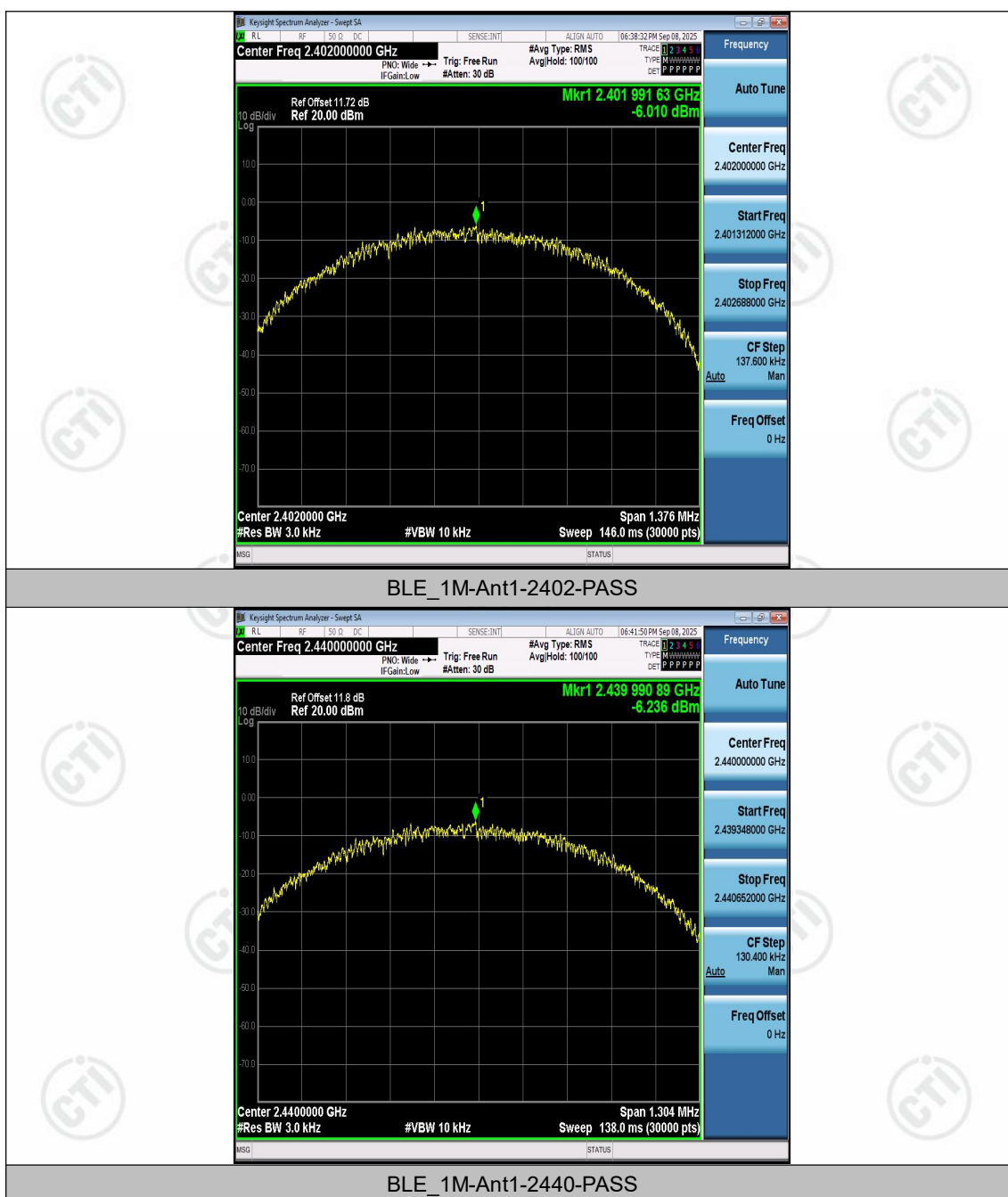


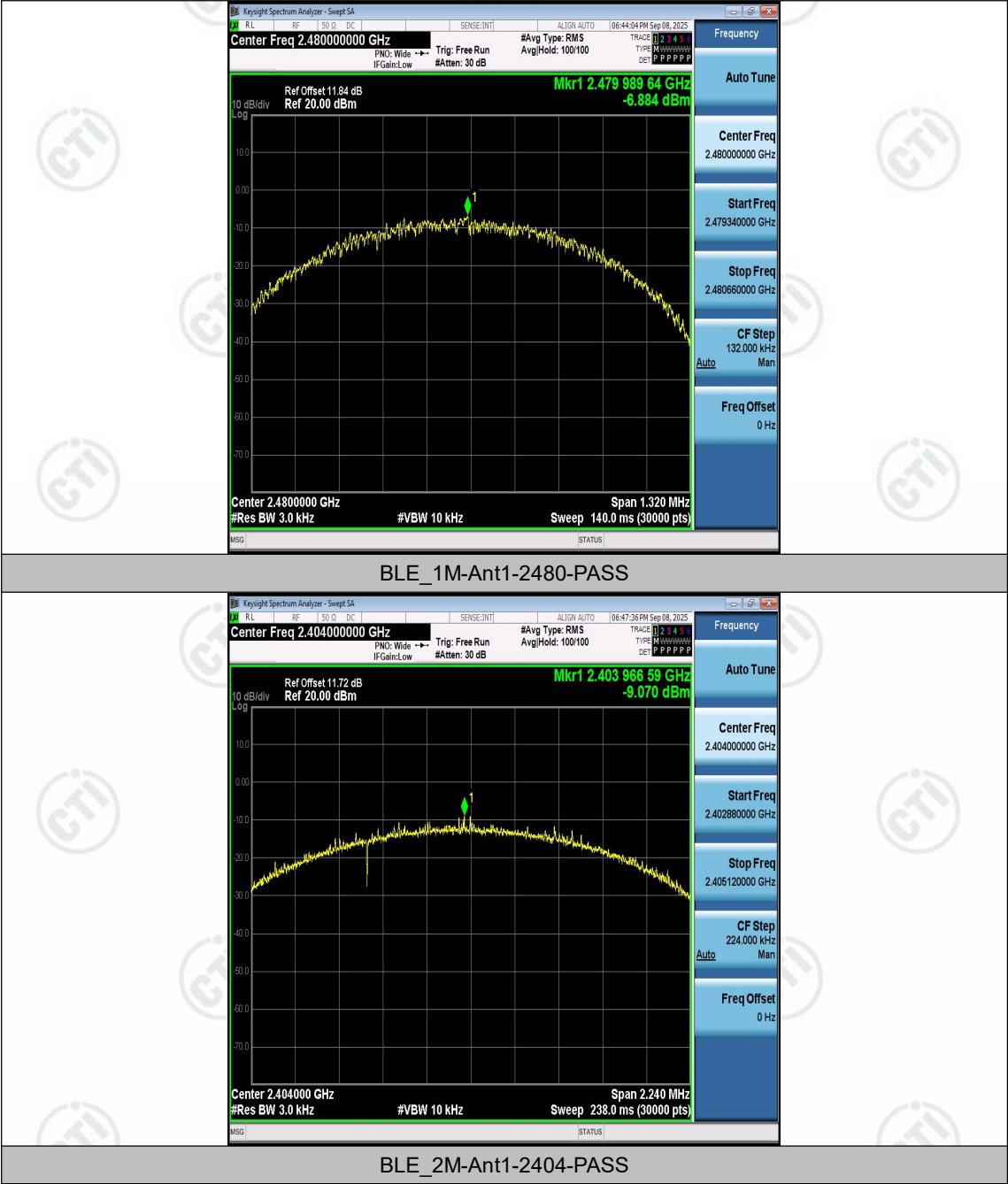
Appendix D: Maximum power spectral density

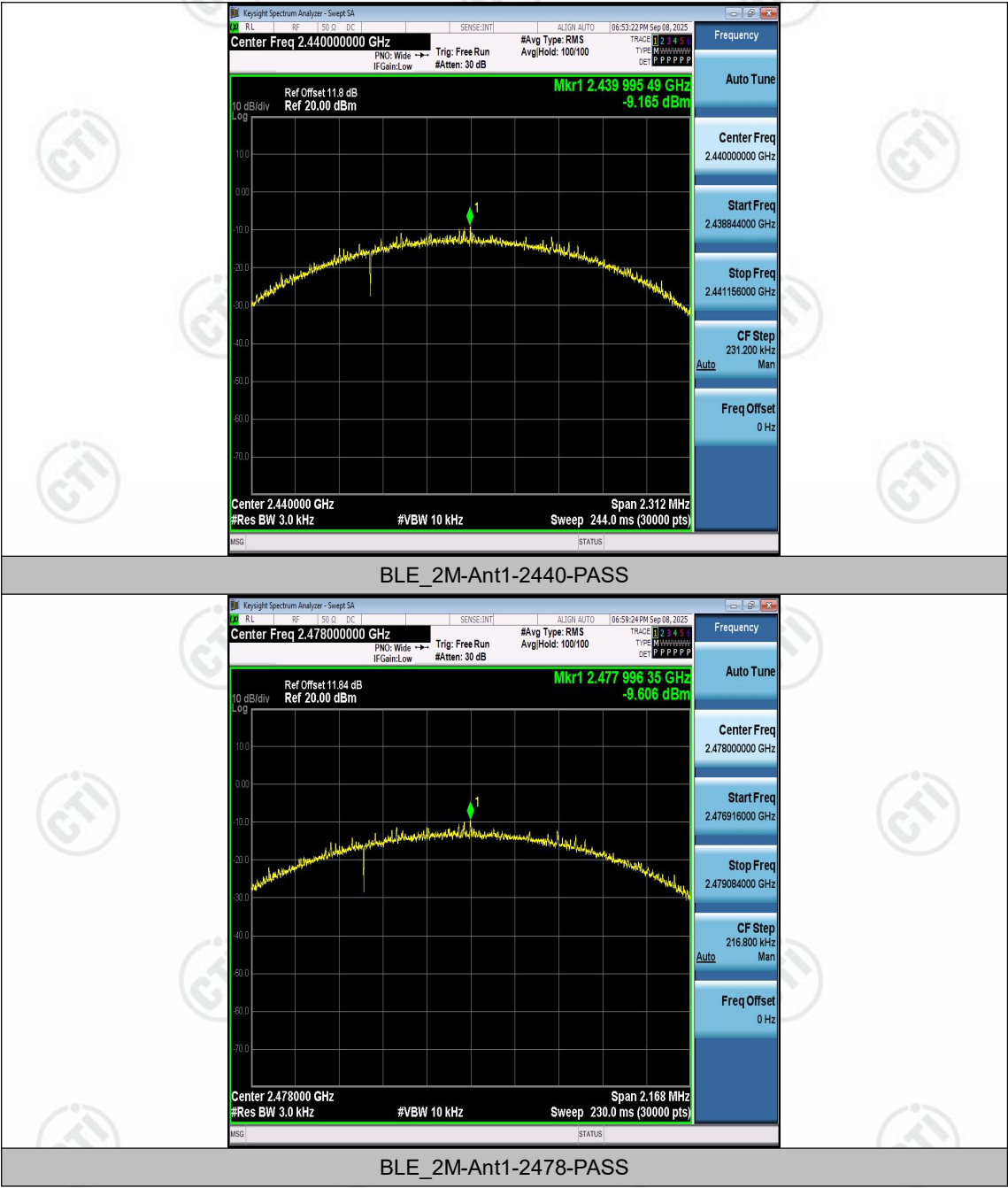
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.01	≤8.00	PASS
BLE_1M	Ant1	2440	-6.24	≤8.00	PASS
BLE_1M	Ant1	2480	-6.88	≤8.00	PASS
BLE_2M	Ant1	2404	-9.07	≤8.00	PASS
BLE_2M	Ant1	2440	-9.17	≤8.00	PASS
BLE_2M	Ant1	2478	-9.61	≤8.00	PASS

Test Graphs



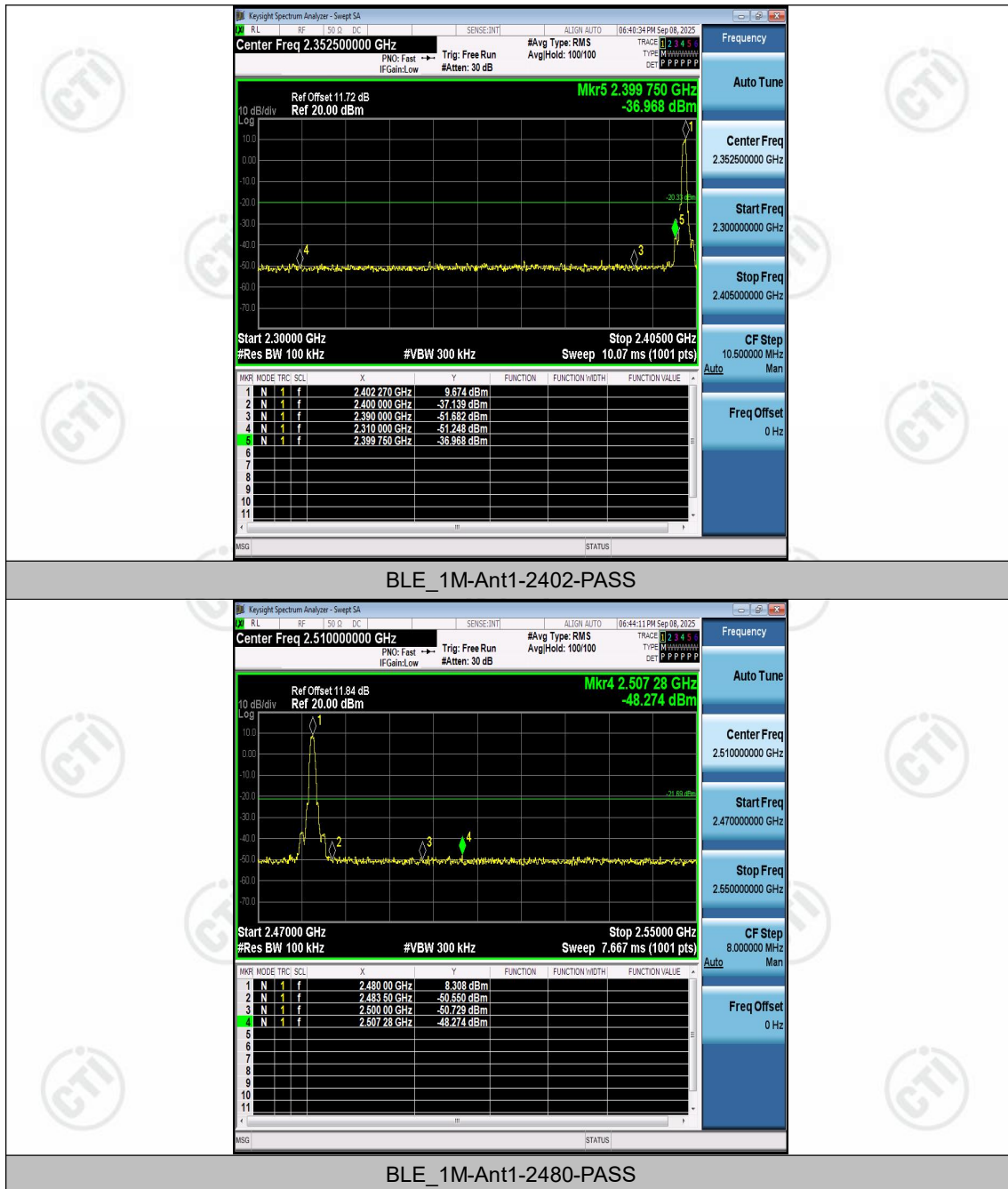


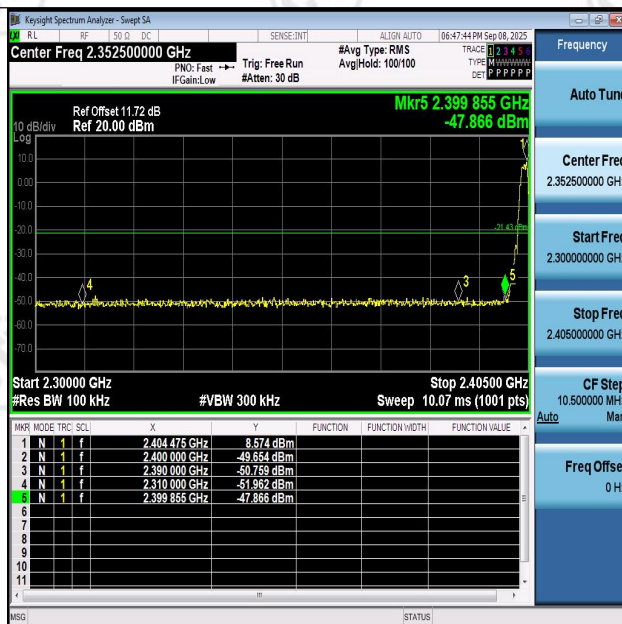


Appendix F: Band edge measurements**Test Result**

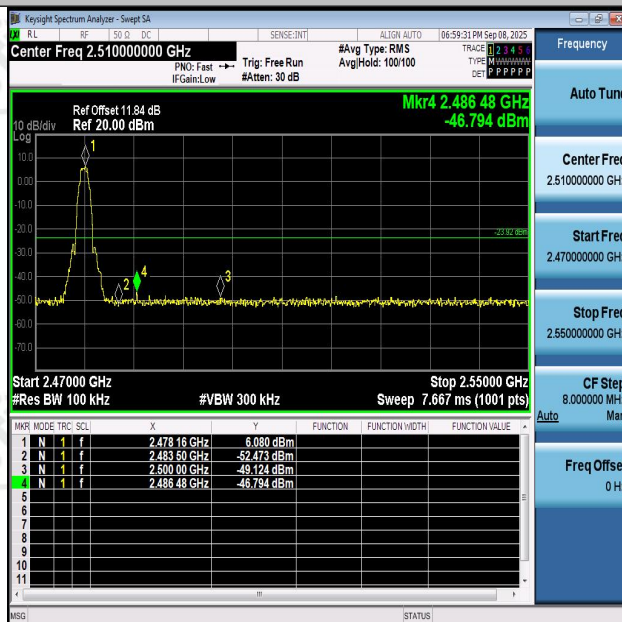
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.67	-36.97	≤-20.33	PASS
BLE_1M	Ant1	High	2480	8.31	-48.27	≤-21.69	PASS
BLE_2M	Ant1	Low	2404	8.57	-47.87	≤-21.43	PASS
BLE_2M	Ant1	High	2478	6.08	-46.79	≤-23.92	PASS

Test Graphs





BLE_2M-Ant1-2404-PASS



BLE_2M-Ant1-2478-PASS

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	8.58	8.58	---	PASS
BLE_1M	Ant1	2402	30~1000	8.58	-59.51	≤-11.42	PASS
BLE_1M	Ant1	2402	1000~26500	8.58	-50.98	≤-11.42	PASS
BLE_1M	Ant1	2440	0~Reference	8.06	8.06	---	PASS
BLE_1M	Ant1	2440	30~1000	8.06	-60.2	≤-11.94	PASS
BLE_1M	Ant1	2440	1000~26500	8.06	-51.37	≤-11.94	PASS
BLE_1M	Ant1	2480	0~Reference	7.67	7.67	---	PASS
BLE_1M	Ant1	2480	30~1000	7.67	-59.56	≤-12.33	PASS
BLE_1M	Ant1	2480	1000~26500	7.67	-51.04	≤-12.33	PASS
BLE_2M	Ant1	2404	0~Reference	8.44	8.44	---	PASS
BLE_2M	Ant1	2404	30~1000	8.44	-60.1	≤-11.56	PASS
BLE_2M	Ant1	2404	1000~26500	8.44	-51.4	≤-11.56	PASS
BLE_2M	Ant1	2440	0~Reference	5.36	5.36	---	PASS
BLE_2M	Ant1	2440	30~1000	5.36	-59.72	≤-14.64	PASS
BLE_2M	Ant1	2440	1000~26500	5.36	-51.58	≤-14.64	PASS
BLE_2M	Ant1	2478	0~Reference	6.03	6.03	---	PASS
BLE_2M	Ant1	2478	30~1000	6.03	-59.53	≤-13.97	PASS
BLE_2M	Ant1	2478	1000~26500	6.03	-50.75	≤-13.97	PASS

Test Graphs

