

Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth 3

 Test Result 3

 Test Graphs 4

Appendix B: Occupied Channel Bandwidth 6

 Test Result 6

 Test Graphs 7

Appendix C: Maximum conducted output power 9

 Test Result 9

 Test Graphs 10

Appendix D: Maximum power spectral density 12

 Test Result 12

 Test Graphs 13

Appendix E: Band edge measurements 15

 Test Result 15

 Test Graphs 16

Appendix F: Conducted Spurious Emission 17

 Test Result 17

 Test Graphs 18

Appendix G: Duty Cycle 23

 Test Result 23

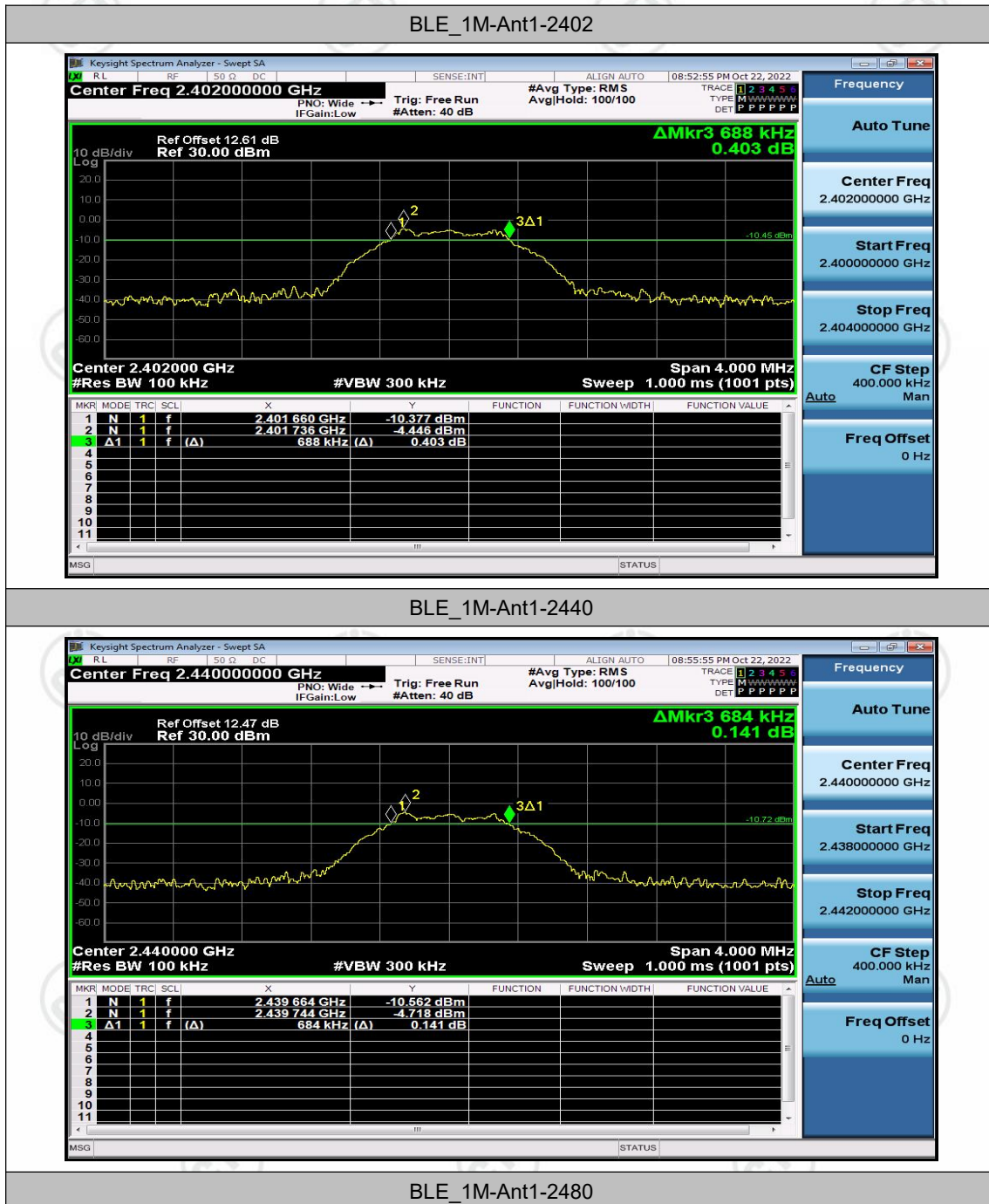
 Test Graphs 24

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	2401.660	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.684	2439.664	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.700	2479.652	2480.352	0.5	PASS

Test Graphs



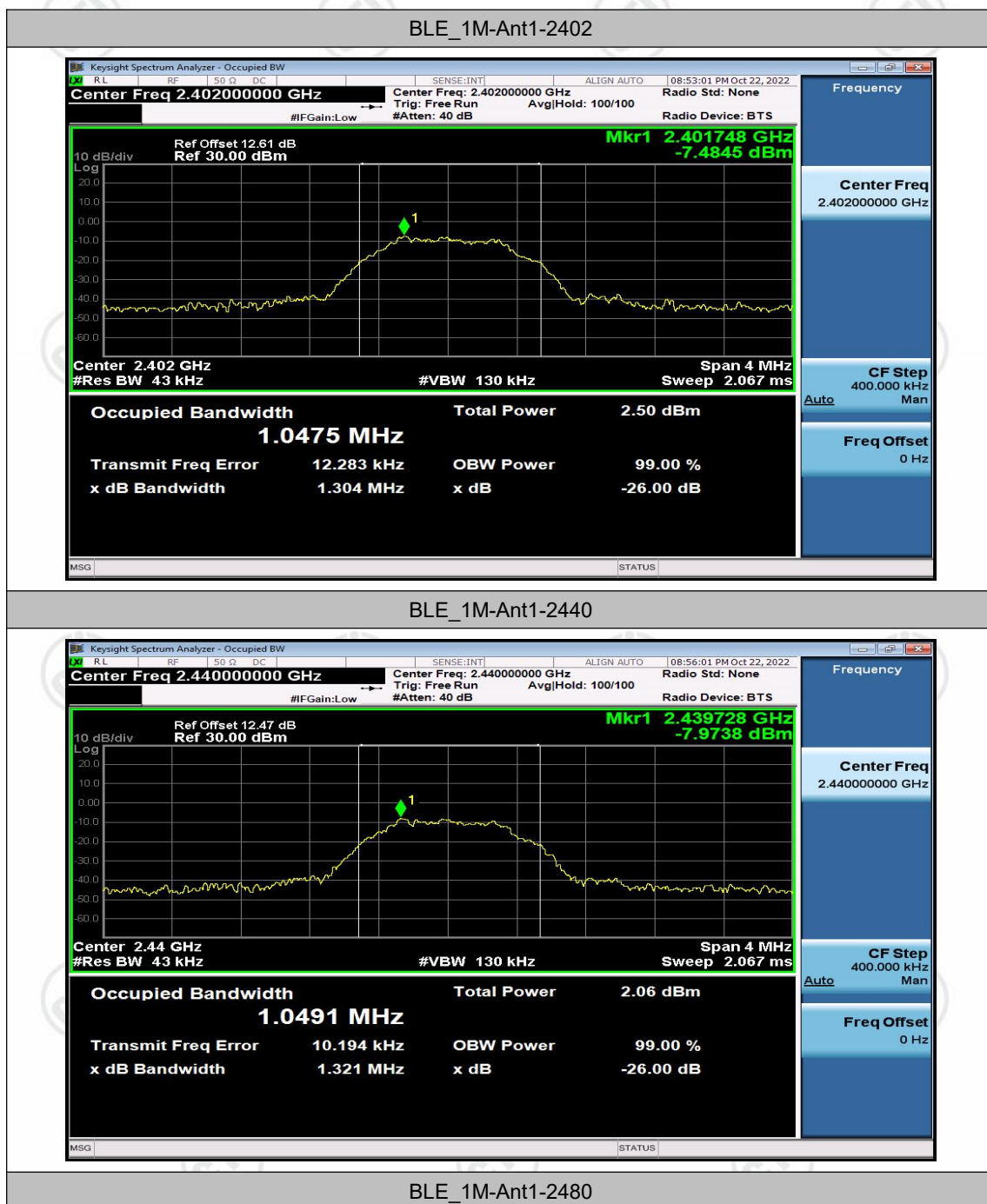


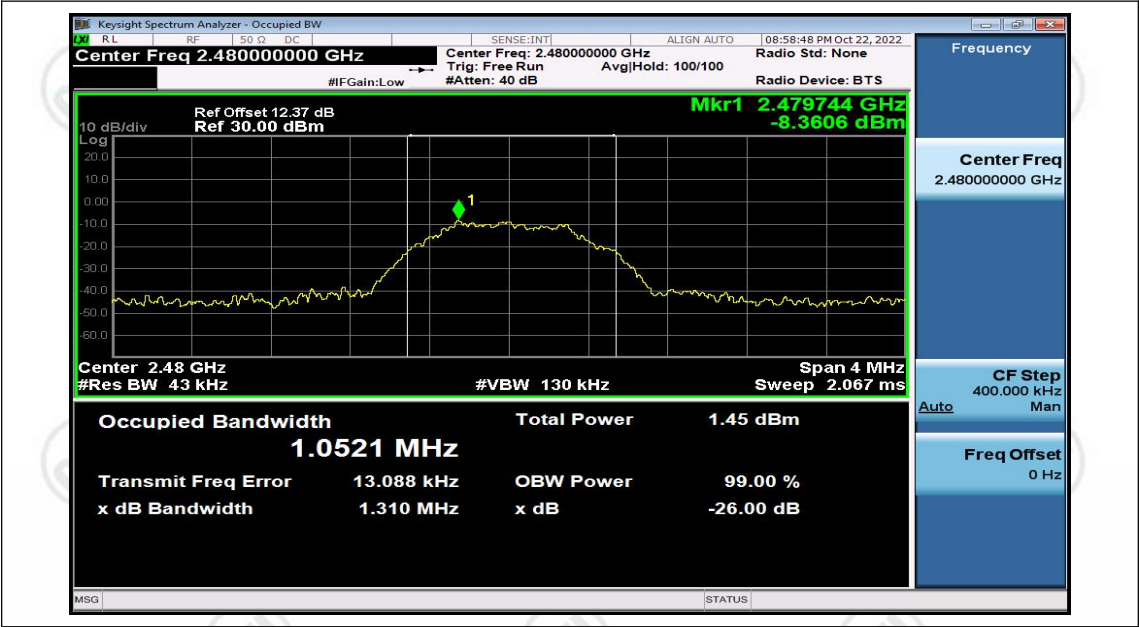
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0475	2401.4885	2402.5360	---	---
BLE_1M	Ant1	2440	1.0491	2439.4856	2440.5347	---	---
BLE_1M	Ant1	2480	1.0521	2479.4870	2480.5391	---	---

Test Graphs



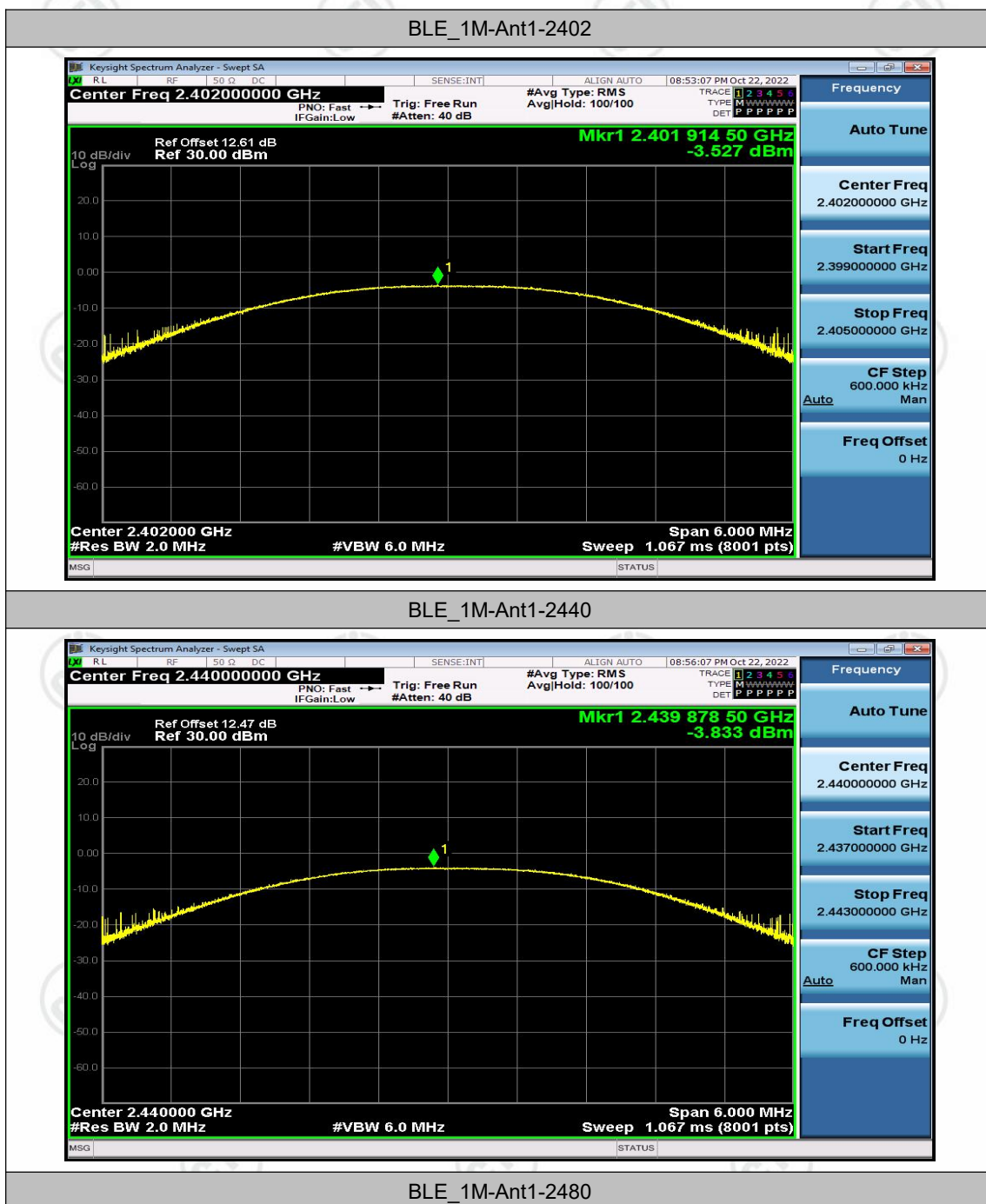


Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.53	≤30	PASS
BLE_1M	Ant1	2440	-3.83	≤30	PASS
BLE_1M	Ant1	2480	-4.32	≤30	PASS

Test Graphs



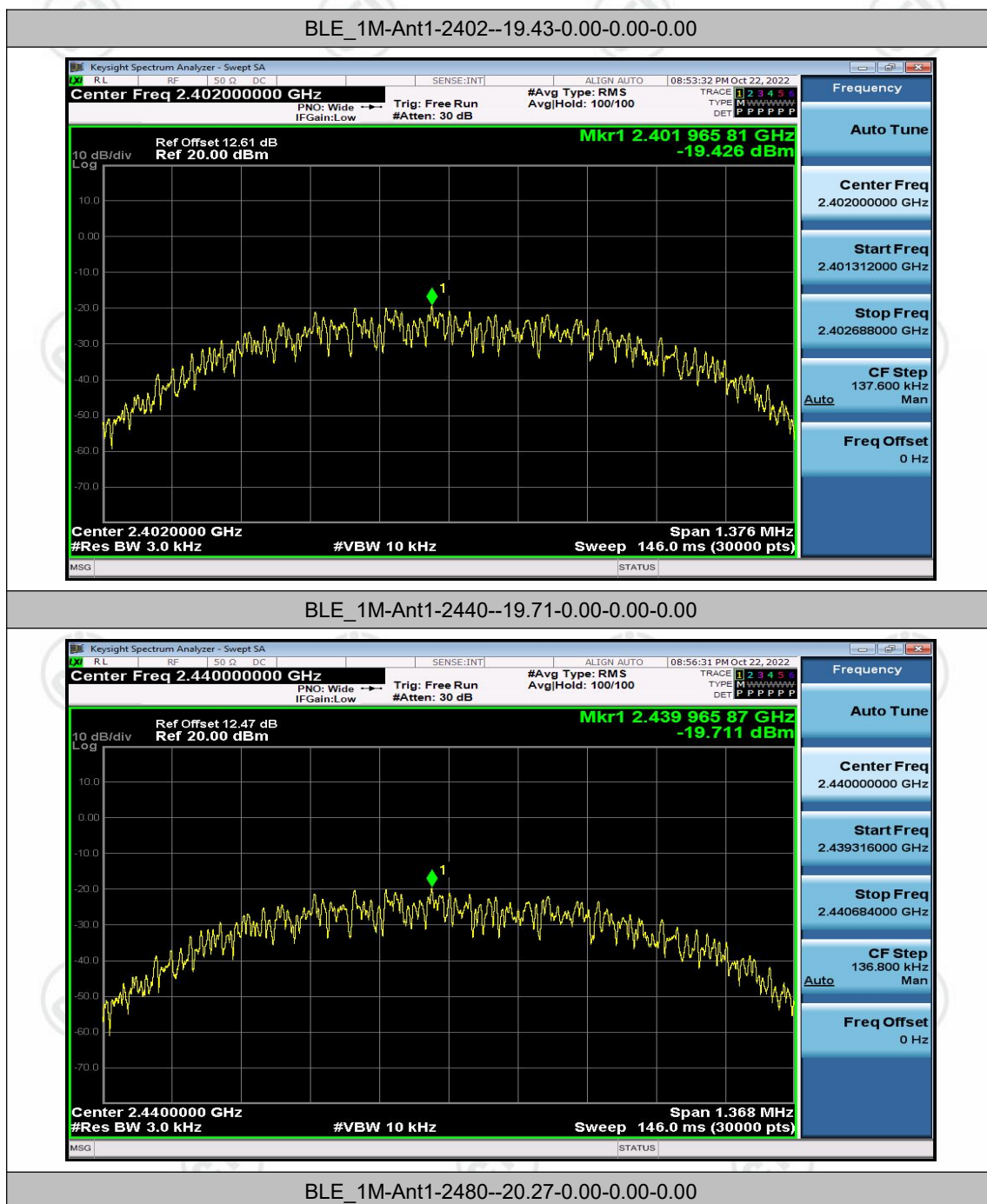


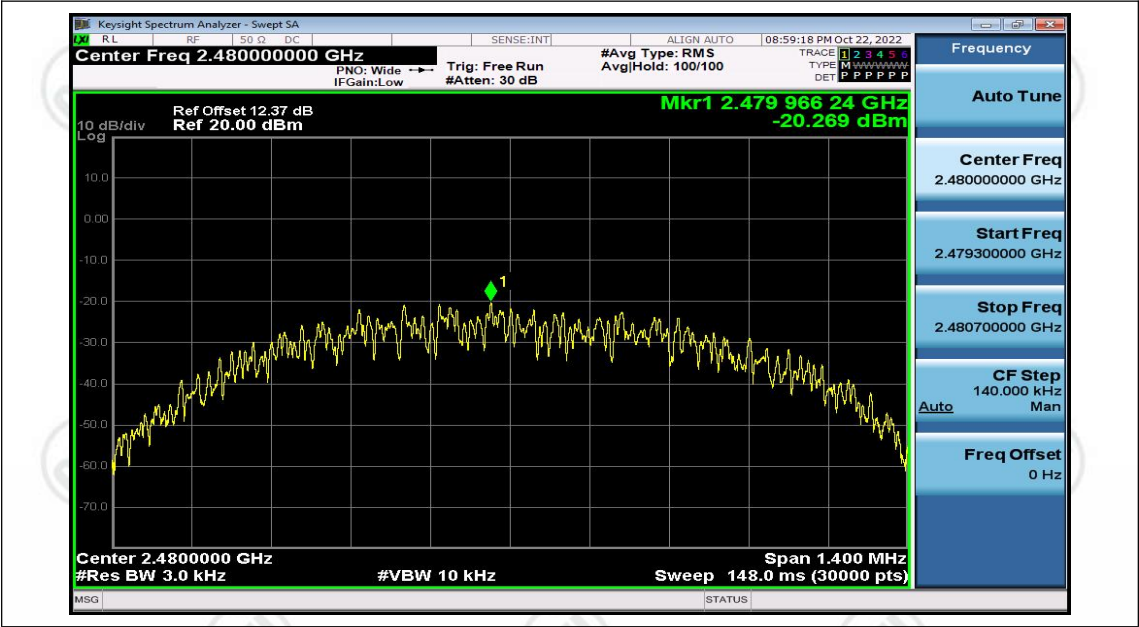
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.43	≤8.00	PASS
BLE_1M	Ant1	2440	-19.71	≤8.00	PASS
BLE_1M	Ant1	2480	-20.27	≤8.00	PASS

Test Graphs



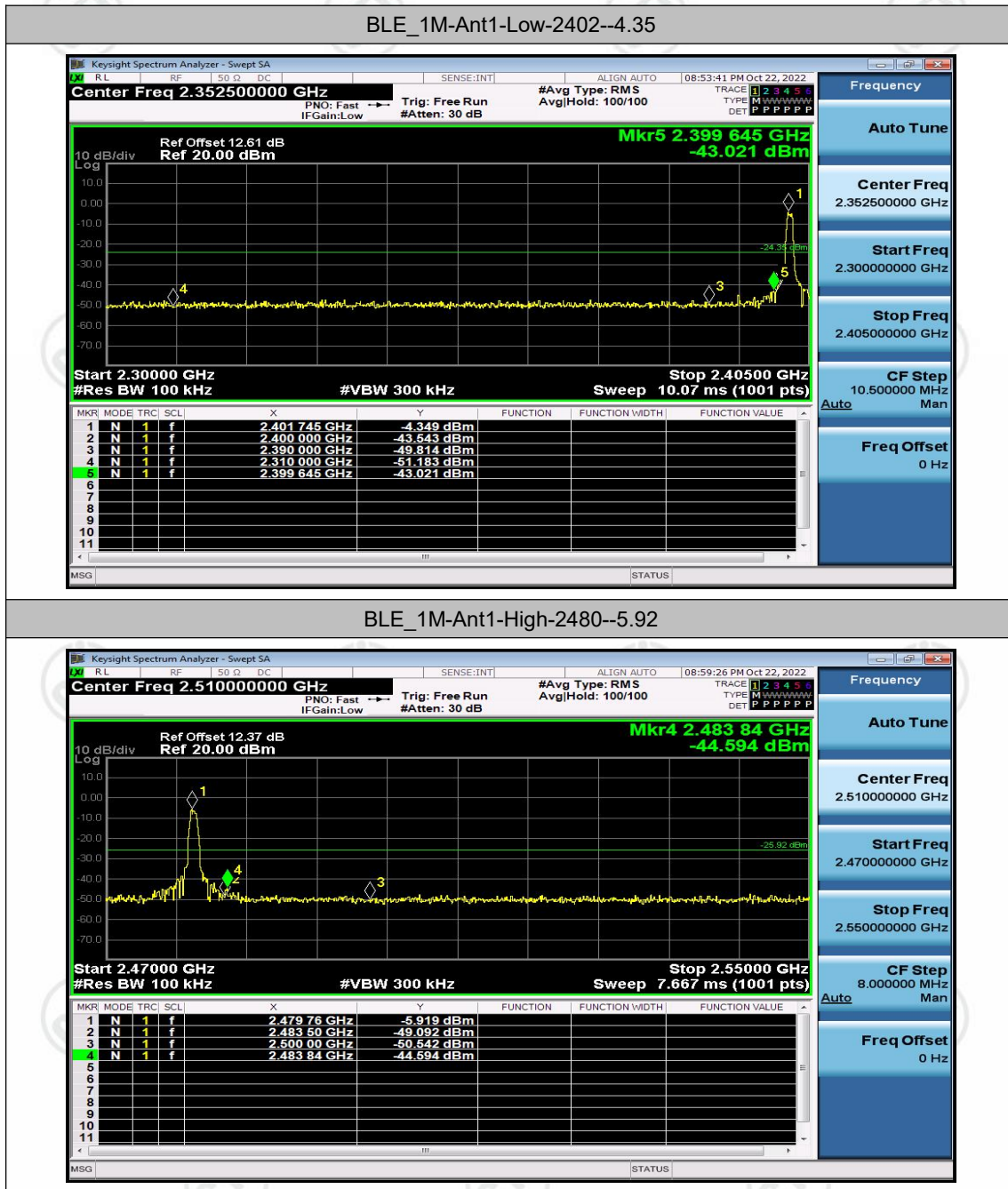


Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.35	-43.02	≤-24.35	PASS
BLE_1M	Ant1	High	2480	-5.92	-44.59	≤-25.92	PASS

Test Graphs

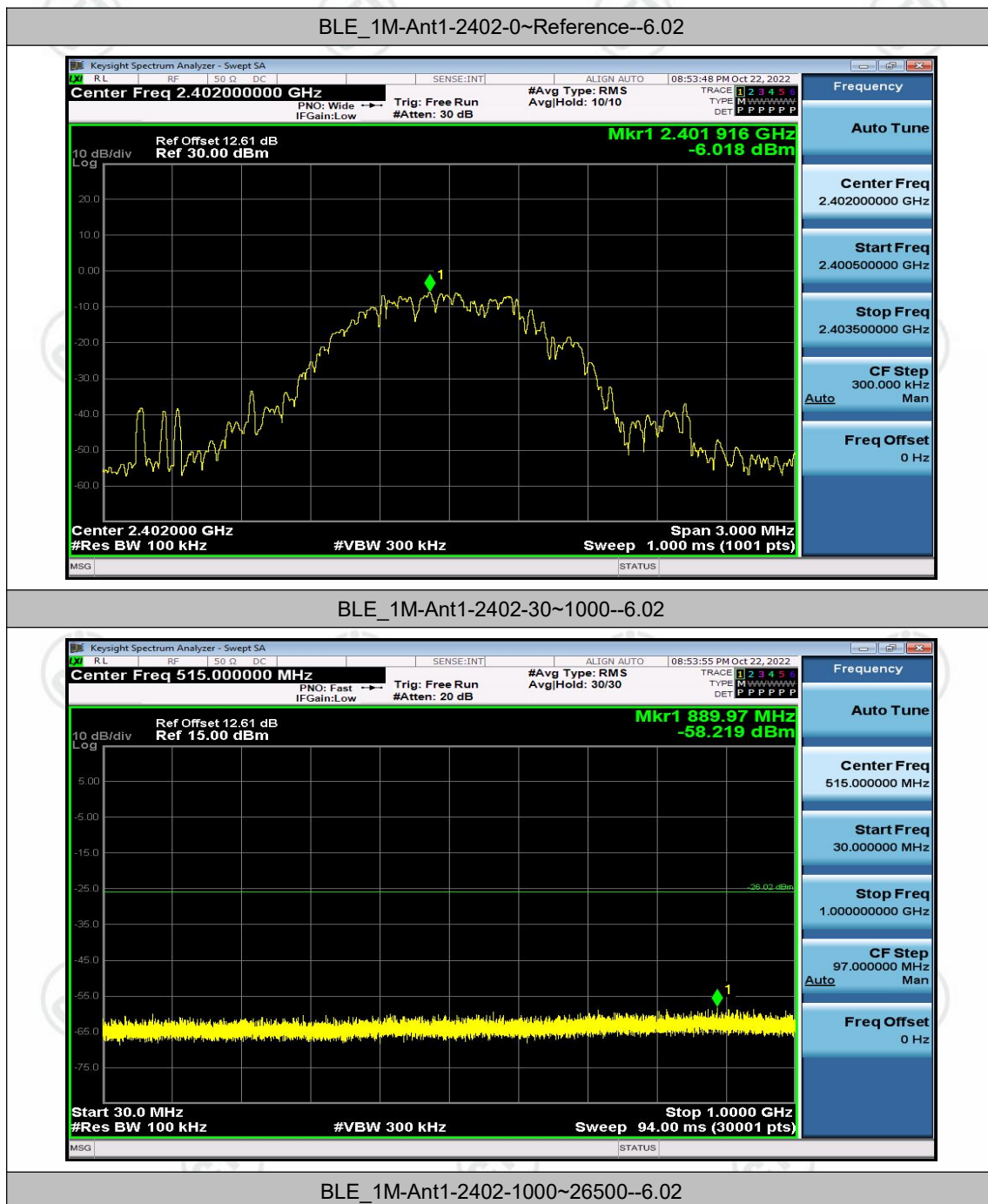


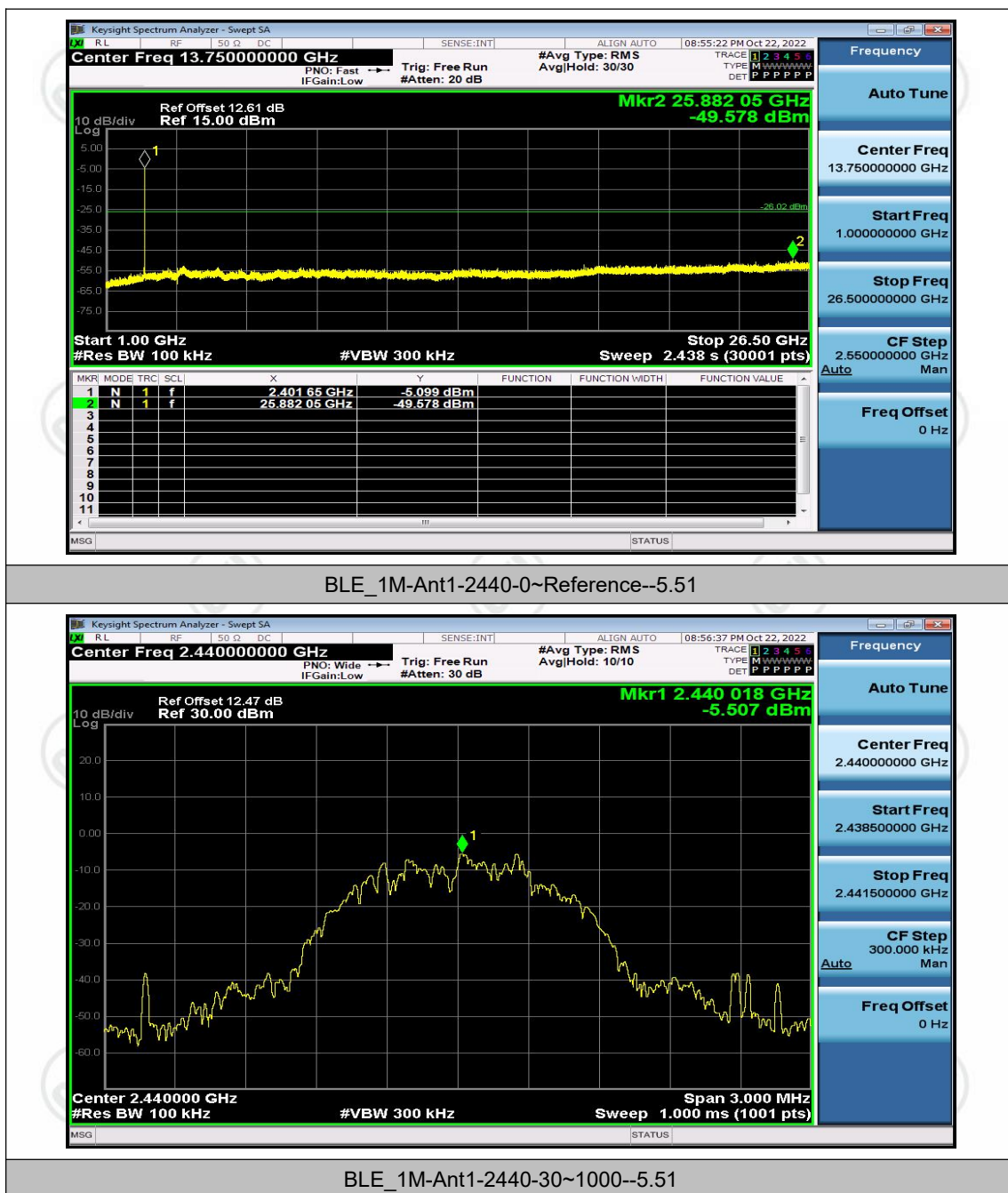
Appendix F: Conducted Spurious Emission

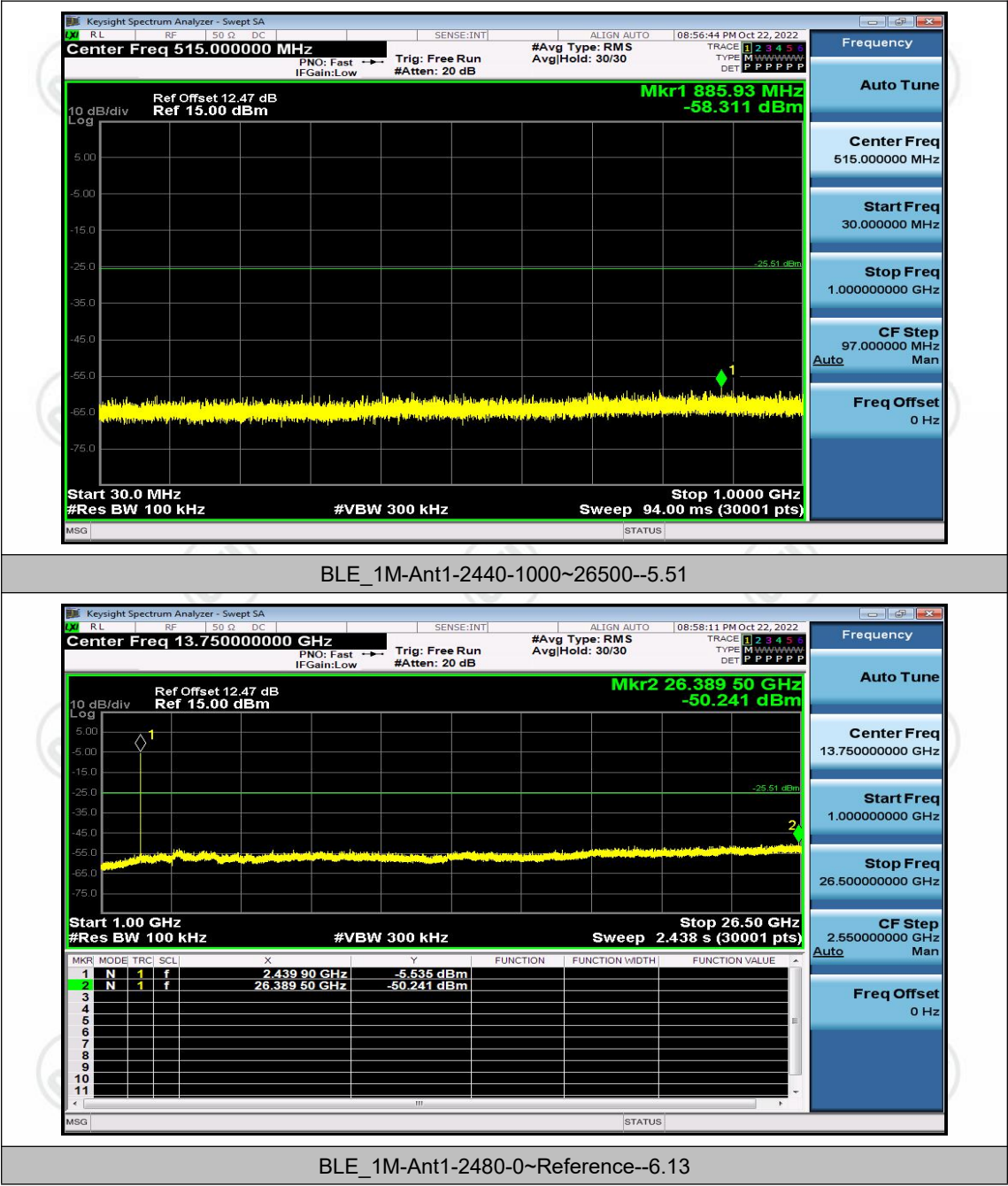
Test Result

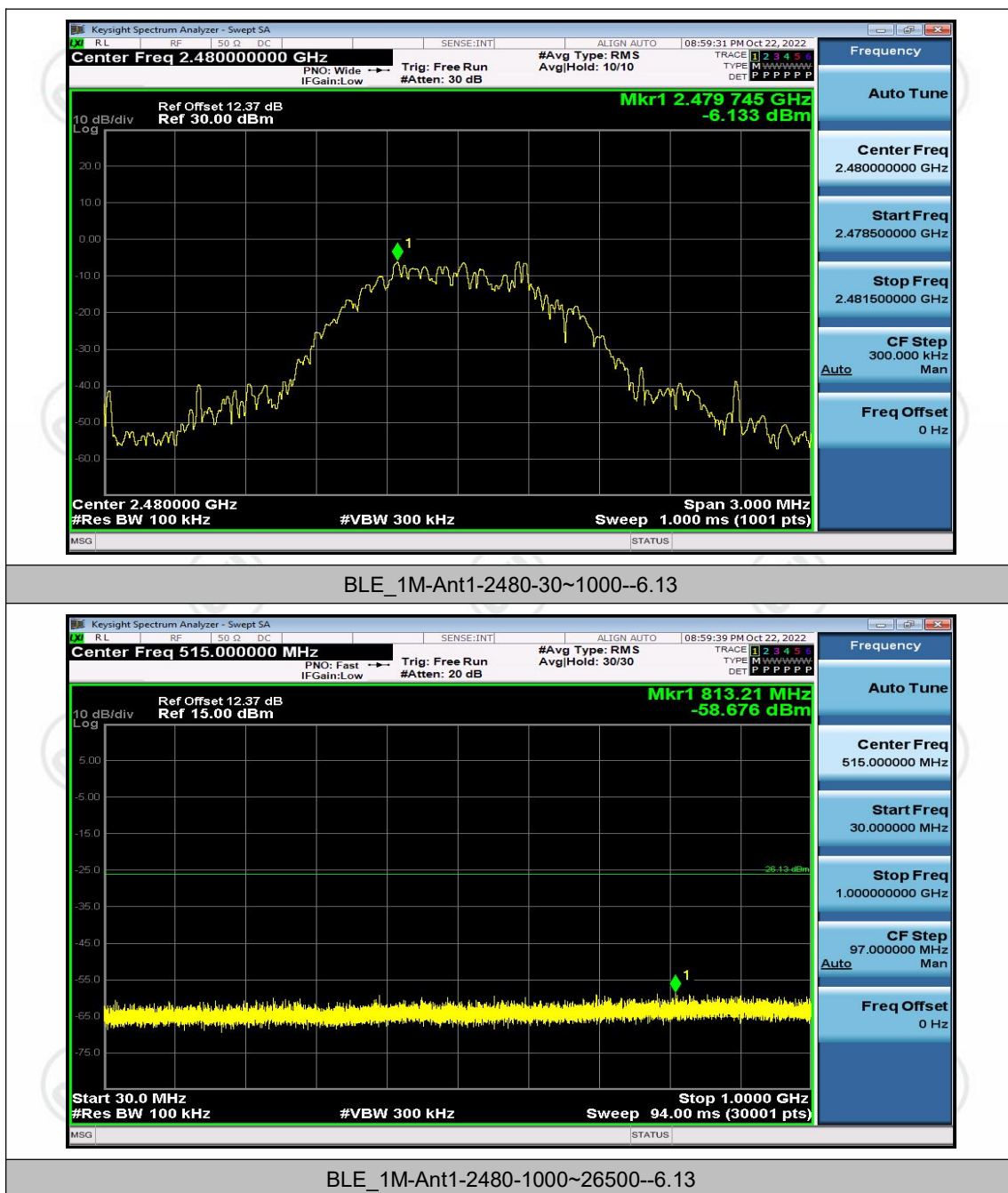
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-6.02	-6.02	---	PASS
BLE_1M	Ant1	2402	30~1000	-6.02	-58.22	≤-26.02	PASS
BLE_1M	Ant1	2402	1000~26500	-6.02	-49.58	≤-26.02	PASS
BLE_1M	Ant1	2440	0~Reference	-5.51	-5.51	---	PASS
BLE_1M	Ant1	2440	30~1000	-5.51	-58.31	≤-25.51	PASS
BLE_1M	Ant1	2440	1000~26500	-5.51	-50.24	≤-25.51	PASS
BLE_1M	Ant1	2480	0~Reference	-6.13	-6.13	---	PASS
BLE_1M	Ant1	2480	30~1000	-6.13	-58.68	≤-26.13	PASS
BLE_1M	Ant1	2480	1000~26500	-6.13	-49.57	≤-26.13	PASS

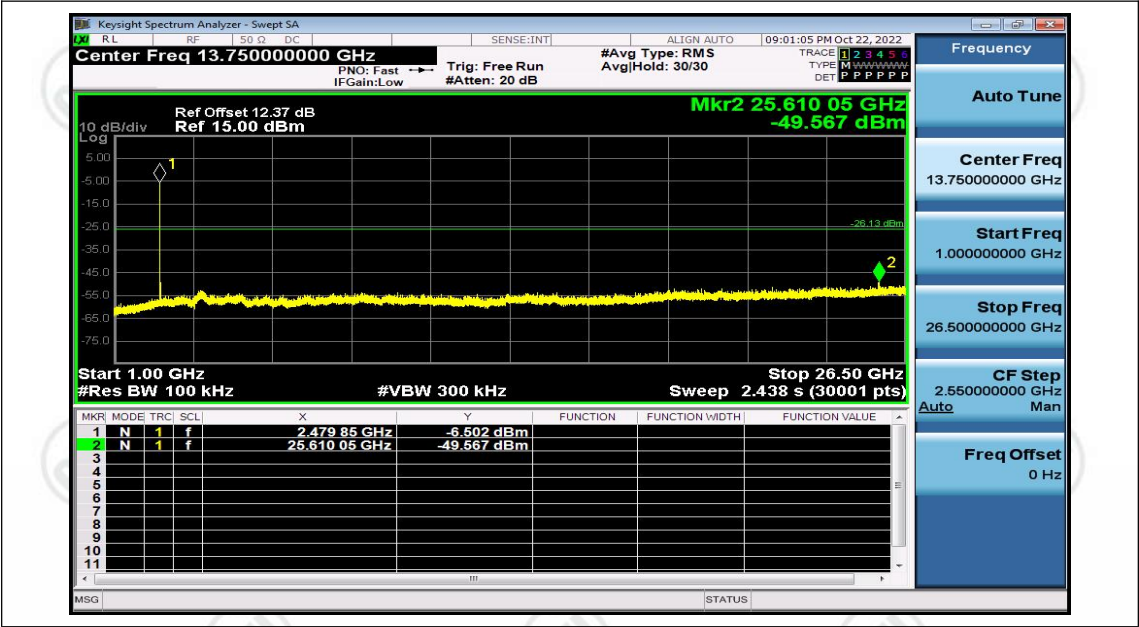
Test Graphs









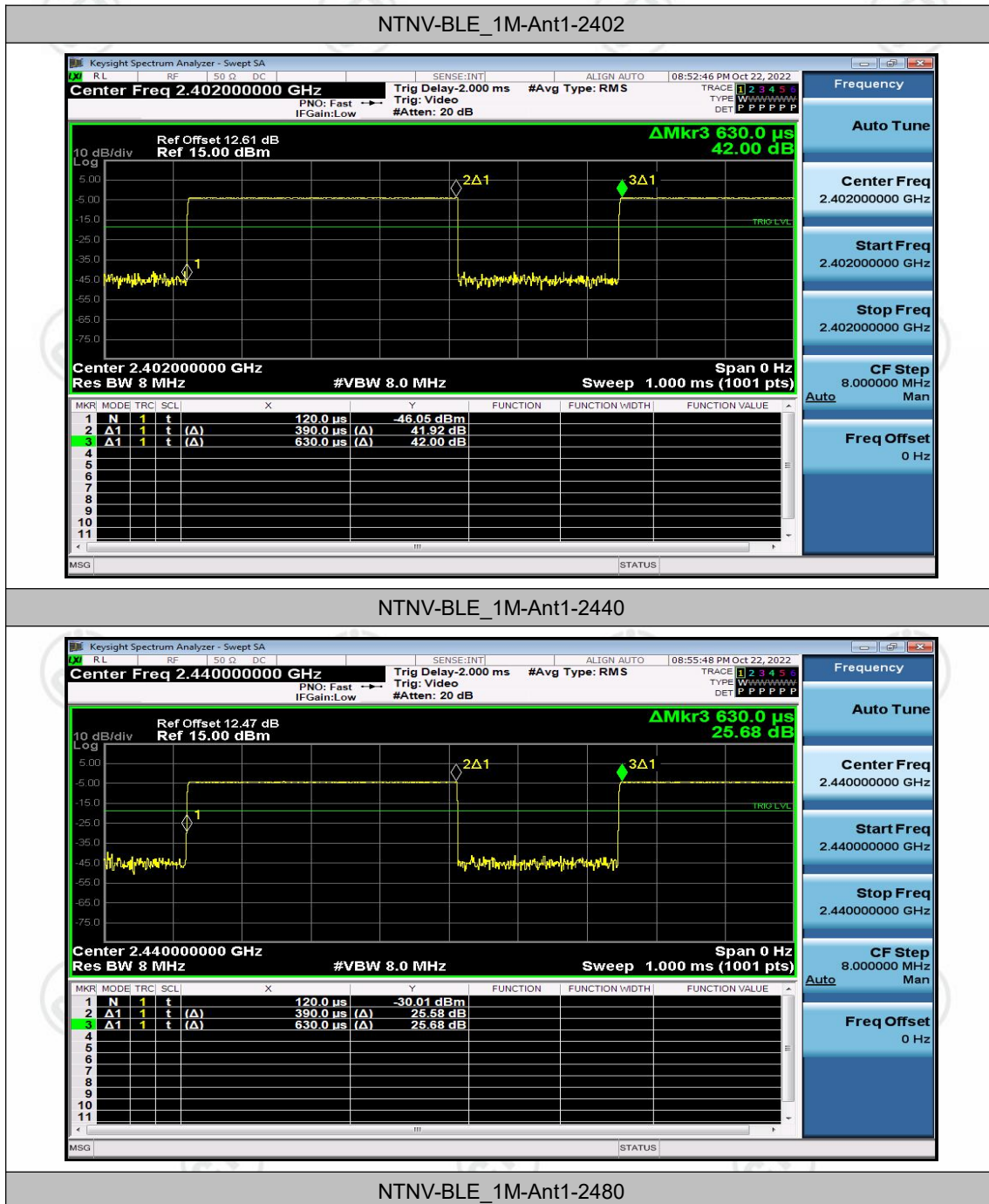


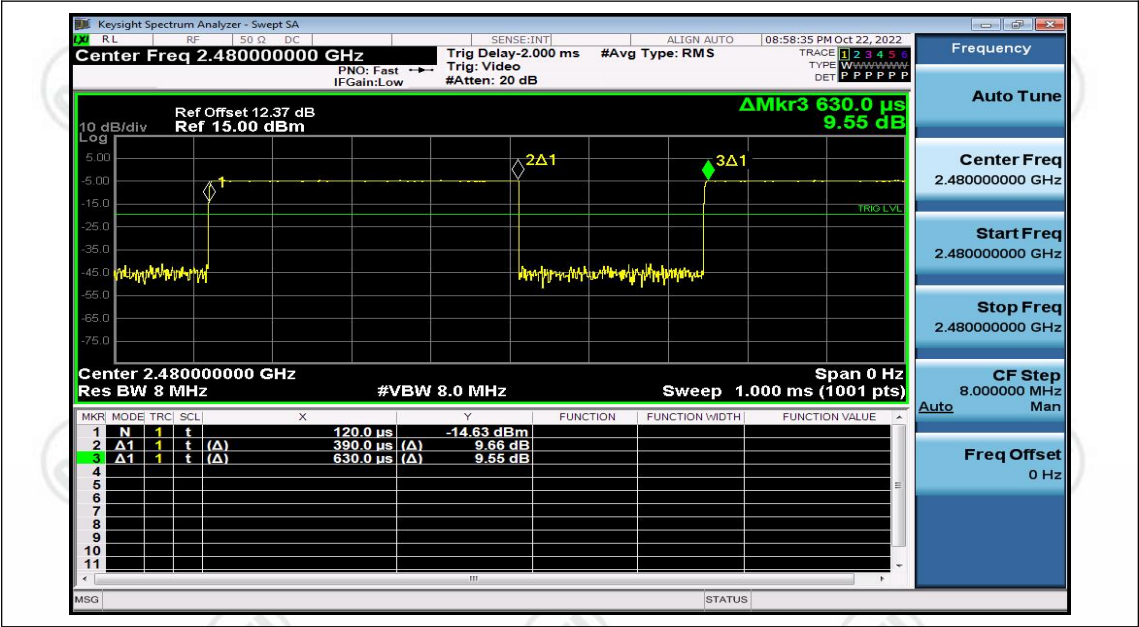
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08

Test Graphs





*** End of Report ***